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Titanite geochemistry and textures: implications for magmatic and post-magmatic processes in
the Notch Peak, Ferguson Canyon, and Little Cottonwood granitic intrusions, Utah

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ABSTRACT

Textural and compositional variations in titanite provide constraints on the emplacement and cooling histories of three plutons in central Utah: the Jurassic Notch Peak granite and the Oligocene Ferguson Canyon and Little Cottonwood stocks. Titanite textures observed with back-scattered electron (BSE) images along with their elemental compositions reveal three main periods of growth: cores, rims, and post-magmatic hydrothermal replacement. In the Notch Peak intrusion, titanite grains usually have oscillatory zones combined with bright sector zones, in some cases surrounding simple unzoned cores. These grains are frequently overprinted by hydrothermal titanite. At some localities, Notch Peak titanites have been completely altered to fine-grained aggregates of rutile or brookite, ilmenite, magnetite, quartz, biotite, and monazite, along with traces of Nb-Ta-Y oxides and REE fluorides. Magmatic titanite has an average $\delta^{18}\text{O}$ of 6.0‰ and secondary post-magmatic titanite is 6.2‰ as analyzed by SIMS. The average Zr-in-titanite temperature is 718°C for magmatic and 711°C for hydrothermal titanite. These observations indicate simple magmatic growth, followed by hydrothermal alteration by magmatic fluids. Titanite in aplite dikes and sills has lower concentrations of all trace elements except F. Many titanite grains in the aplites have late overgrowths of high Fe titanite (twice the Fe of other zones in these grains). This high Fe titanite has a $\delta^{18}\text{O}$ value of 6‰ and average Zr-in-titanite temperature of 718°C and likely precipitated from a last flush of exsolved magmatic water enriched in Cl and Fe. Titanite in the small Ferguson Canyon intrusion is texturally similar to that at Notch Peak but is chemically distinguished by its relatively high concentrations of F, Y, and Al and low Ti, LREE, and Fe/Al ratios as determined by LA-ICP-MS and electron microprobe analysis. Its $\delta^{18}\text{O}$ (5.2‰) is also lower than at Notch Peak, reflecting a different magma composition. The Little Cottonwood stock contains titanite grains that have quite

different textures. They typically contain distinct patchy cores with rounded, resorbed ilmenite inclusions. This suggests that a more reduced, ilmenite-bearing magma mixed into an oxidized felsic magma, destabilizing existing ilmenite and allowing crystallization of titanite. Surrounding the patchy cores are mantles of oscillatory or unzoned titanite. Growth of titanite in the melt appears to have occurred in pulses as many grains contain dissolution surfaces truncating earlier growth zones. Many grains have narrow rims as well as anhedral titanite that grew between sheets of chloritized biotite. Mafic enclaves in the Little Cottonwood stock have abundant titanite that is similar in composition and $\delta^{18}\text{O}$ (5.1‰) to titanite in the granodiorite ($\delta^{18}\text{O} = 4.9\text{‰}$) but have a slightly higher average Zr-in-titanite temperature (731° versus 717°C). The patchy cores in these enclaves have the highest average Zr-in-titanite temperature (759°C) and distinctive REE patterns, taken as further evidence for mixing of mafic and felsic magma.

Magmatic cores and rims are compositionally similar in all the plutons. Overall, the Notch Peak titanite tends to have a higher average Fe/Al ratio (~1.1) compared to Little Cottonwood titanite (~0.9) and is richer in REE, Y, Th, Nb, Ta, and F. Ferguson Canyon titanite has lower Fe/Al (~0.75) and higher concentrations of Y and F than the other two intrusions and lower concentrations of LREE.

Secondary non-magmatic overgrowths and replacements of titanite typically have lower concentrations of most high field strength elements (HFSE), but are relatively enriched in F, Mg, Mo, and U. In all of the plutons, post-magmatic titanite has strikingly different REE patterns than magmatic titanite, including the absence of pronounced Eu anomalies, has lower REE abundances, as well as higher Nb/Ta and lower Th/U ratios. Most of the chemical features are controlled by element solubilities in aqueous fluids. In most cases, the hydrothermal titanite has $\delta^{18}\text{O}$ values similar to magmatic titanite, indicating alteration and recrystallization from exsolved

magmatic fluids. The involvement of meteoric water with low $\delta^{18}\text{O}$ is evident in some cases. For example, individual spots have $\delta^{18}\text{O}$ as low as 0.25‰ in Ferguson Canyon and 1.7‰ in the Little Cottonwood stocks.

Titanite compositions and textures provide important insights into the origins of granitic rocks and can be used to distinguish separate batches of magma, gauge the evolution of magmatic rocks, assess mixing processes and infer compositions of mixing components. Because titanite also forms hydrothermally, it retains hints about the composition, temperature, and oxygen fugacity of the hydrothermal fluids and reveals details about titanite-forming reactions. However, the Al-in-titanite geobarometer does not yield realistic pressures of crystallization and its use as a geochronometer is compromised by the development of U-rich hydrothermal titanite.

Keywords: Titanite, Notch Peak granite, Little Cottonwood stock, Ferguson Canyon intrusion, granite, mafic enclave, $\delta^{18}\text{O}$, magma mixing, hydrothermal alteration

INTRODUCTION

The compositions and textures of accessory minerals are powerful tools for interpreting pluton construction and evolution and have been the focus of numerous petrological studies over the past few years (Bachmann et al. 2007; Matzel et al. 2006; Miller et al. 2007; Memeti et al. 2010; Siégel et al. 2018; Ratschbacher et al. 2018; Esposito et al. 2018; Oppenheim et al. 2021). Some accessory minerals incorporate trace elements such as U, rare earth elements (REE), and high field strength elements (HFSE), that provide clues to crystallization environment, changes in magma composition, ages, and post-magmatic history (e.g., McLeod et al. 2011; Jiang et al. 2016; Laurent et al. 2017; Rossetti et al. 2017; Pan et al. 2018; Bruand et al. 2019). Zircon has become a popular geochronometer and thermometer due to its high closure temperature for diffusion and durability. Zircon can be dated using U-Pb isotopes with a high degree of precision, recording initial crystallization and periods of overgrowth (e.g., Jackson et al. 2004; Michel et al. 2008; Barth et al. 2016; Lancaster et al. 2017). It is also resistant to re-equilibration, unreactive, and hence unlikely to be chemically or chronologically modified (Frost 2001; Piechocka et al. 2017). While this makes zircon good for recording the time of initial magmatic crystallization and even older pre-magmatic events, zircon resists recording changes in the magma after initial crystallization as well as lower temperature hydrothermal events.

Another accessory mineral that has garnered attention is titanite; it is a common mineral in many plutonic, volcanic, and metamorphic rocks and has several petrogenetic advantages over zircon. For example, the presence or absence of titanite may indicate relative oxygen fugacity, as titanite is stable under high oxygen fugacity, but unstable at low oxygen fugacity, where ilmenite crystallizes instead (Wones 1989; Xirouchakis et al. 2001; Angboust and Harlov 2017; Kohn 2017). Like zircon, titanite has low elemental diffusion rates so magmatic zonation is typically

preserved (Paterson et al. 1989; Cherniak 1993; Kohn 2017). For example, titanite can survive greenschist facies metamorphic conditions for millions of years before 1% of the grain will exchange oxygen with its surroundings (King et al., 2001). Titanite's chemical formula is CaTiSiO_5 and more elements can be incorporated in its structure than in zircon. Titanite has three cation sites: a tetrahedral site with Si that may have minor amounts of Al, an octahedral site with Ti that accommodates highly charged elements such as Al, Zr, Fe^{3+} , Nb, and Ta, and an unusual 7-fold decahedral site with Ca that incorporates Na, Sr, REE, Y, U, and Pb (Speer and Gibbs 1976; Deer et al. 1997; Frost 2001; Kohn 2017). Titanite also has an underbonded O site into which OH^- and F^- may substitute. These substitutions make it a good tracer of diverse geologic processes at high and low temperatures in the presence of melt or hydrothermal fluids.

Titanite has also been used as a geothermobarometer. The Zr content in titanite is largely controlled by temperature and is only slightly sensitive to changes in pressure, yielding temperatures with uncertainties of 20°C within a $\sim 600\text{--}1000^\circ\text{C}$ range based on the experiments of Hayden et al. (2008). Erdman et al. (2019) have also calibrated an empirical geobarometer based on the Al_2O_3 content of magmatic titanite in equilibrium with amphibole, plagioclase, K-feldspar, quartz, biotite, and magnetite $\pm$ ilmenite.

Titanite may be significantly affected by post-magmatic dissolution and recrystallization in hydrothermal fluids. While titanite incorporates hundreds of ppm of U, which is vital for geochronological studies, it also incorporates significant common Pb, making ages harder to interpret than for zircon (Frost 2001; Aleinikoff et al. 2002; Kohn 2017). Consequently, elemental variations and ages reflect a wide range of processes, including magmatic growth, subsequent cooling, secondary fluid alteration, and deformation (McLeod et al. 2011; Bonamici et al. 2015; Garber et al. 2017).

As for most accessory minerals, titanite zonation is difficult to observe with optical microscopy. Fortunately, zonation is readily revealed in backscattered electron (BSE) images. BSE brightness is a function of the average atomic mass; areas with higher concentrations of heavier elements such as REE are brighter in the image (Paterson et al. 1989; Paterson and Stephens 1992; Hayden et al. 2008). Zoning types in titanite include oscillatory growth zoning, sector (sometimes called fir-tree) zoning, continuous zoning, convolute zoning, patchy zoning, and discrete cores (Patterson et al. 1989; Paterson and Stephens 1992; Chakhmouradian 2004; Piccoli et al. 2000; McLeod et al. 2011; Jiang et al. 2016; Hu et al. 2017). Magmatic titanite tends to be rich in REE and is brighter in BSE images than titanite formed by hydrothermal activity, which tends to have lower concentrations of REE and higher Al and F (Paterson and Stephens 1992; Morad et al. 2011; Garber et al. 2017; Rossetti et al. 2017; Henze et al. 2018; Kowallis et al. 2018). Bright sector zones are enriched in high field strength elements like REE, Zr, Ta, and Nb (Paterson and Stephens, 1992). These zones must be accounted for and avoided in geothermometry (Hayden et al. 2008).

The relationship between titanite zoning and pluton evolution is still not fully understood. Most titanite studies have focused on different types of titanite within a locality instead of textural variations within single grains (e.g., Morad et al. 2009; Xu et al. 2015; Pappavlou et al. 2017; Pan et al. 2019). A mischaracterization or ignorance of texture can skew apparent dates or temperatures, leaving a false interpretation of geologic events. Some studies have begun to explore titanite intragrain textures and how they relate to geothermometry, U-Pb dating, and geologic processes (Aleinikoff et al. 2002; Hayden et al. 2008; McLeod et al. 2010; Gao et al. 2012; Bauer 2015; Gros et al. 2020; Stearns et al. 2020; Zhao 2021).

In this paper, we present a textural and geochemical comparative study of titanite grains in two granitic intrusions—the Notch Peak pluton, and the Little Cottonwood stock. We also have data from a small intrusion previously thought to be part of the Little Cottonwood stock, called the Ferguson Canyon intrusion. The main objective of this study is to utilize titanite texture, geothermometry, $\delta^{18}\text{O}$, and major and trace element compositions to interpret emplacement and evolution histories of these plutons. We also explore how titanite compositions are affected by growth zoning, how brightness correlates with element concentrations, and how magmatic titanite differs from secondary hydrothermal titanite.

GEOLOGIC SETTING

The Jurassic Notch Peak pluton is located in the House Range of west-central Utah while the Oligocene Little Cottonwood stock and nearby Ferguson Canyon intrusion are found in the Wasatch Mountains south of Salt Lake City (Fig. 1). All of these granitic intrusions were formed as Mesozoic and early Cenozoic subduction-related intrusions into Proterozoic basement and overlying Neoproterozoic and Paleozoic sedimentary rocks. They have been exposed by erosion accompanying late Cenozoic extension (Nabelek 1986; John 1989; Hintze and Kowallis 2009).

Notch Peak pluton

The Notch Peak granite (*sensu stricto*) intruded into interbedded Paleozoic limestone and argillites during the Jurassic period about 169 ± 3 Ma at a depth of 4-5 km (Gehman 1958; Lee et al. 1983; Nabelek and Labotka 1993; Hintze and Fitzhugh 2002; Cui et al. 2003; Supplementary Figs. A1 to A3). The pluton has an area of about 18 km² and is made up of three sequentially intruded units (Nabelek et al. 1986). The earliest is “granite” found along the borders of the pluton, especially along the northeastern corner (Fig 1). This “granite” was subsequently intruded by “quartz monzonite” (QMI) while the “granite” was at least partially solidified,

163 followed by intrusion of a slightly different “quartz monzonite” (QMII) in the center of the
164 eastern part of the pluton (Fig. 1). All three units are texturally and mineralogically similar. The
165 “granite” phase tends to have the most variable texture: it is porphyritic to seriate. It also has
166 subsolidus recrystallization textures close to the contact with sedimentary rocks. The “granite” is
167 associated with abundant 1- 6 m thick aplite dikes and sills along the southern and western
168 border that cut both the intrusion and the surrounding sedimentary rock. The quartz monzonites
169 are coarser grained and seriate.

170 Major minerals are similar in all three phases and include plagioclase, K-feldspar, quartz,
171 and biotite; hornblende is only found in a few samples. All are granite according the IUGS
172 modal and chemical classification schemes and, for simplicity, we refer to the pluton as the
173 Notch Peak granite. Accessory minerals such as titanite, apatite, zircon, ilmenite, allanite, and
174 magnetite are also found in all phases, including the aplites. Based largely on O-isotopic data,
175 Nabelek et al. (1983) and Novick and Labotka (1990) concluded that late hydrothermal fluids of
176 magmatic origin slightly altered the pluton and formed an extensive contact aureole in the
177 carbonate wall rocks.

178 **Little Cottonwood stock**

179 The Little Cottonwood stock, 32 km south of Salt Lake City, is part of the Wasatch
180 Igneous Belt, an east-west trend of at least eleven Paleogene intrusions and an associated
181 volcanic field in central Utah. At about 30 Ma, the Little Cottonwood magmas intruded into
182 Proterozoic metamorphic rocks, a deformed Neoproterozoic quartzite, and folded Paleozoic
183 miogeoclinal sedimentary rocks, including quartzite, carbonate, and shale (Hanson 1995; Vogel
184 2001; Smyk et al. 2018; McKean and Solomon 2018; Jensen 2019). Later, movement on the
185 Wasatch normal fault produced flexural-isostatic uplift and tilted the range to the east. Current

exposures of the stock came from paleodepths of 11 to 5.6 km (Parry & Bruhn 1987; John 1989; Kowallis et al. 1990; Ehlers et al. 2003). It has an area of 115 km² (Hanson 1995), about six times larger than the Notch Peak intrusion (Fig. 1 & Supplementary Fig. A4).

The northern and eastern parts of the Little Cottonwood stock is compositionally and texturally zoned from a finer-grained, less-silicic outer zone to a coarser-grained, more-silicic zone in the center (Marsh and Smith 1997). It mostly consists of granite and granodiorite with some quartz monzonite (Hanson 1995; Fig. 2). We refer to the main mass as granodiorite to contrast it with the Notch Peak granite. Major minerals are plagioclase, quartz, biotite, and hornblende, while accessory minerals include titanite, apatite, zircon, magnetite, and ilmenite (Hanson 1995; Henze et al. 2018). Near the Wasatch fault to the west, the granodiorite is commonly sheared and deformed as observed in Corner Canyon (LC-Corner) and Cherry Creek (LC-CC) samples, but they are similar in composition to the unsheared granodiorite of the main stock. The Little Cottonwood intrusion contains numerous mafic enclaves and schlieren interspersed throughout much of the stock (Hanson 1995; Marsh and Smith 1997; Supplementary Fig. A5). A narrow contact aureole surrounds the pluton.

The Little Cottonwood stock encloses the younger White Pine and Red Pine intrusions ranging to as young as about 24 Ma (Fig. 1; Smyk et al. 2018; Jensen 2019, Stearns et al. 2020). These intrusions largely overlap in composition with the Little Cottonwood stock but formed from separate batches of magma based on U-Pb zircon ages and subtle chemical and mineralogical differences (Smyk et al. 2018; Jensen et al. 2019; Martin et al. 2019). Smaller phreatomagmatic pebble and rhyolite dikes also cross the stock. Sub-economic porphyry Mo mineralization and associated hydrothermal alteration are found in the White Pine phase and are linked to cool (<300°C), low salinity (<10% NaCl equivalents) aqueous and CO₂-rich fluids

(John 1989; Martin et al. 2019). John (1989) suggests that even the low temperature fluids were magmatically derived, based on unpublished O and H isotopic data.

Ferguson Canyon intrusion

The small ($\sim 3 \text{ km}^2$) and isolated Ferguson Canyon intrusion (Fig. 1) has been included in the past as part of the Little Cottonwood stock. However, it has a different porphyritic texture with abundant megacrysts (3-4 cm) of K-feldspar in a finer groundmass. This intrusion is older ($\sim 34 \text{ Ma}$, U-Pb titanite; Stearns et al. 2020) and mineralogically and chemically distinct (McKean and Solomon (2018) and Fig. 2). Mafic enclaves are absent.

METHODS

Titanite-bearing granitic rocks were collected from the Notch Peak, Little Cottonwood, and Ferguson Canyon intrusions. Sample locations are noted in Supplementary Table C1. Additionally, samples of mafic enclaves were collected from the Little Cottonwood stock (Fig. 1). Both standard and 1-inch round polished thin sections were made by Wagner Petrographic in Lindon, Utah. Mounted in the round sections were several grains of a quartz standard (UWQ-1; Kelly et al. 2007) embedded in a hole drilled in the center of the section and used during oxygen isotope analysis.

Titanite was examined using a petrographic microscope and abundances were determined by point counting. Grains in thin sections were imaged using backscatter electron (BSE) imagery on a Helios Nanolab 600 FEI with an Elstar in-lens BSE detector (TLD-BSE) and later with an Apreo Scanning Electron Microscope. BSE systems were operated at 15.0 kV, 6.4 nA, and a working distance of around 10 mm. BSE imaging was used to identify different zoning patterns and secondary/recrystallized titanite that is not generally recognizable with optical microscopy.

These images were also used to identify potential sites for electron microprobe and laser ablation analyses (Aleinikoff et al. 2002; Peterson 1992).

Individual grains were analyzed by electron microprobe for SiO₂, Al₂O₃, TiO₂, MgO, FeO, CaO, Na₂O, MnO, Nb₂O₅, Y₂O₃, La₂O₃, Ce₂O₃, Nd₂O₃, Sm₂O₃, and F using a Cameca SX-50 with a 1 µm beam diameter at 15 kV and a 30 nA at Brigham Young University. Further trace element analyses were performed at the University of Utah with laser ablation inductively coupled plasma-mass spectrometer (ICP-MS) with a 193 nm Teledyne Photon Machines Analyte Excite laser, coupled to an Agilent 7500ce, quadrupole mass-spectrometer for B, Na, Mg, Al, Ca, Sc, Ti, V, Mn, Fe, Cu, Zn, Ga, Rb, Sr, Y, Zr, Nb, Mo, Sn, Ba, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, Pb, Th and U. The laser was set to a spot size of 20-35 µm with a repetition rate of 10 Hz, laser energy of 75%, and a fluence of 1.82. NIST-610, NIST-612 synthetic glasses (Norman et al. 1996) and the titanite MKED were used as standards (Spandler et al. 2016). Time-resolved intensity data from the ICP-MS were exported as counts per second, and element abundances were calculated offline using Iolite 2.5 (Paton et al. 2011). Si was used as the internal standard based on concentrations determined by electron microprobe analysis. A 20-30 µm spot size was used in order to analyze some zones that are often only 20-40 µm across.

Oxygen isotope analysis on titanite was performed at the University of Wisconsin-Madison WiscSIMS lab on a Cameca IMS-1280 ion microprobe. Spots of 20 µm diameter were analyzed on polished grain mounts. SIMS oxygen isotope methods are described in more detail by Kita et al. (2009) and Bonamici et al. (2015). Spots where electron microprobe, laser ablation, and oxygen isotope analyses were taken are shown on BSE images of titanite grains in Supplementary file A.

Whole-rock samples were analyzed for major and trace element compositions by X-ray fluorescence (XRF) spectrometry at Brigham Young University (Dailey et al. 2018). A subset of Notch Peak and Little Cottonwood samples were also analyzed commercially (ALS Global in Reno, Nevada) by ICP-MS for other trace elements including REE.

WHOLE ROCK GEOCHEMISTRY AND PETROGRAPHY

Notch Peak pluton

The Notch Peak intrusion is the most chemically evolved of the plutons we studied with the highest concentrations of silica and incompatible elements; the “granite” and “quartz monzonites” of Nabelek (1986), are granite on a TAS classification diagram (Fig. 2). The rocks are typically magnesian and calc-alkalic, except for two fairly altered samples. The intrusion ranges from metaluminous to slightly peraluminous in (average CIPW normative corundum is 0.75%). It crystallized at high fO_2 as indicated by titanite and biotite compositions and by low whole rock FeO/(FeO+MgO) ratios (Fig. 2C; Supplementary Table C1; Nabelek et al. 1986). Based upon Rb, Y, and Nb contents, the Notch Peak intrusion is a volcanic arc granite (Fig. 2D; Pearce et al. 1984), although the altered samples and an aplite scatter into adjacent fields. The REE patterns of the Notch Peak granite display high LREE, slight depletions in the MREE (Tb to Tm), and higher values for Yb and Lu (Fig. 2E & 2F). This is the classic REE pattern produced by titanite fractionation. Notch Peak granites typically have small negative Eu anomalies, probably because of extensive feldspar fractionation (Nabelek et al. 1986). The REE pattern for the aplites are similar to the granites, but REE contents are lower by a factor of 2 or 3 (Fig. 20 and Nabelek, 1986). Compared to two-mica granites from the region, the pluton has a modest $^{87}\text{Sr}/^{86}\text{Sr}_i$ (0.7069-0.7100) and $\delta^{18}\text{O}$ (9.4‰) (Nabelek et al. 1983; Lee and Christiansen 1983; Nabelek et al. 1988). Overall, the Notch Peak granite has all the geochemical

characteristics of a subduction-related silicic rock which fits the Jurassic tectonic setting of the region (e.g., Christiansen et al. 2015).

Little Cottonwood stock

The Little Cottonwood stock (LC) is more mafic (granodiorite to granite) than the Notch Peak intrusion (Fig. 2A) and has higher proportions of mafic minerals and titanite (~1.5%) than the Notch Peak granite. Most samples are calc-alkalic and magnesian and fall in the volcanic arc field of Pearce et al. (1984), which agrees with the inferred Cenozoic environment of slab rollback after an episode of flat-slab subduction (e.g., Yonkee & Weil 2015; Best et al. 2016). Like the Notch Peak granite, it is metaluminous, crystallized at high fO_2 as indicated by titanite and Mg-rich biotite and amphibole compositions (Hanson 1995; Marsh and Smith 1997). Predictably, the more mafic Little Cottonwood stock has lower Rb and other incompatible element abundances than the Notch Peak granite (Fig. 2F). The REE patterns of samples from the Little Cottonwood stock are like those of the Notch Peak granite, except they have lower HREE concentrations and lack Eu anomalies, apparently because they are less differentiated (Fig. 2). REE patterns are largely homogenous across the pluton.

The Little Cottonwood Stock has a lower $^{87}\text{Sr}/^{86}\text{Sr}_i$ (0.70736-0.70823) than the Notch Peak granite (Farmer and DePaolo 1983; Vogel et al. 2001; Smyk et al. 2018). No whole-rock $\delta^{18}\text{O}$ values for the Little Cottonwood granodiorite have been published, but they are likely to be lower as well. Based on measured titanite $\delta^{18}\text{O}$ (5.0 ‰; King et al. 2001; this study), zircon should have a $\delta^{18}\text{O}$ ~5.86 ‰ (fractionation factors from King et al. 2001) and using the relationship between silica content and $\Delta(\text{WR-Zrc})$ established by Lackey and Valley (2008), the average whole rock $\delta^{18}\text{O}$ would be about 7.6 ‰.

299 *Little Cottonwood enclaves*

300 Mafic enclaves with irregular, fluidal shapes are common in the main phase of the Little
301 Cottonwood stock. They range widely in size from a few centimeters to a few meters across.
302 Locally, enclaves form long trains and grade into highly elongate schlieren. Across the pluton,
303 the enclaves are chemically and texturally similar. They are porphyritic with fine-grained
304 groundmasses; poikilitic plagioclase is the most abundant phase followed by biotite (~15%),
305 amphibole (~12%), and titanite (~3%). Many enclaves include large megacrysts of potassium
306 feldspar, apparently derived from the enclosing porphyritic granodiorite. Quartz, apatite, zircon,
307 and opaque oxides complete the mineral assemblage. (Texture can be seen in Supplementary
308 Figs. A3 & A5). Acicular apatite grains and quench textures in those with fine groundmasses
309 indicate rapid cooling to just below the solidus temperature. Titanite poikilitically encloses other
310 silicates in several enclaves.

311 Because of high alkali contents, the enclaves plot as monzodiorites on a total-alkali silica
312 diagram (Fig. 2). The unusual geochemistry of the inclusions is illustrated in their distinctive
313 trace element patterns. They are enriched in Ti, Zr, Hf, Nb, and Y compared to the host (Fig. 2).
314 Pb anomalies are relatively small. The enclaves also have distinctive REE patterns with higher
315 REE contents (~2 to 3 times), higher La/Yb ratios, and deeper Eu anomalies than the host
316 granodiorites, but they have deep Nb anomalies and Ba/Nb ratios typical of magmas from
317 subduction settings.

318 Hanson (1995) concluded that the enclaves were likely cumulates ripped from the
319 margins of the crystallizing intrusion, but their fluidal shapes, apatite elongation, titanite
320 enrichment, alkaline compositions and negative Eu anomalies are inconsistent with such an
321 origin. Instead, the titanite data presented herein provide evidence that the mafic enclaves formed

by magma mixing when a hotter and more mafic magma mixed with the felsic magma. Hanson (1995) showed that plagioclase, biotite, and hornblende in the enclaves have the same compositions as they do in the granodiorite host. This suggests that after mixing, the enclave magma exchanged components with the host magma to create a rock with the chemical characteristics of a cumulate. Moreover, it is possible that some residual liquid may have been expelled from the enclave as it solidified. As a result, major and trace element compositions of the enclaves were greatly modified and may only grossly reflect the composition of the mafic end member as outlined by Christiansen and Venchiarutti (1990) for enclaves in rhyolites. For example, the normalized trace element diagram in Figure 2f is unusual, with high concentrations of REE but lower concentrations of Ba, Rb, K elements that are typically even more enriched in alkaline magmas with similar REE concentrations. It seems that the trace element pattern is strongly controlled by the abundance of titanite in the enclaves, which is estimated to be about 3%. Titanite has low alkali contents but high REE contents.

Ferguson Canyon Intrusion

The older satellitic Ferguson Canyon intrusion is texturally and chemically distinct from the rest of the Little Cottonwood complex. Although it has larger K-feldspar crystals, less titanite (~0.5%), and lacks mafic enclaves, its magmatic mineral assemblage—Pl, Qz, Kf, Bt, Hb, Mt, Ilm, Ttn, Ap, and Zrn—is like that of the Little Cottonwood stock. Titanite in this intrusion lacks the complex patchy cores of other parts of the Little Cottonwood complex and is smaller (<200 μm). Compared to the main phase of the Little Cottonwood granodiorite, the Ferguson Canyon is Sr-rich, Nb-poor and the REE pattern is distinct with no negative Eu anomaly and lower HREE concentrations (Fig. 2F; data from McKean and Solomon (2018) are included).

Titanite grains are generally wedge shaped and colorless to tan in plane-polarized light. In these intrusive rocks, they typically range from 10 micrometers to 1 mm long. In general, the grains are zoned with brighter BSE zones enriched in REE and HFSE relative to darker BSE zones that are enriched in F and depleted in HFSE as described below (Paterson et al. 1989; Paterson and Stephens 1992; Piccoli et al. 2000; McLeod et al. 2011; Henze 2020). We have confirmed that brightness correlates with REE concentration (Supplementary Figs. B2 & B3, Supplementary Table C4). Titanite zones can be divided into those produced by primary magmatic processes (Type 1) and those that result from post-magmatic secondary processes (Type 2). These types are further subdivided as described below (Table 1). The notation used indicates first the primary magmatic (1) or secondary hydrothermal (2) origin, then the type of zoning, then location in the grain (core or mantle).

Primary Magmatic Titanite Textures

Primary magmatic titanite is typically euhedral and displays a variety of textures. Inclusion relationships indicate that titanite is commonly an early crystallizing phase in silicic magmas. Common inclusions are apatite and zircon, Fe-Ti oxides, quartz, and feldspars. We have identified four textural types.

Type 1U. The simplest type of titanite has no coherent zoning pattern. In some instances, this type may be subtly zoned in BSE brightness, but it does not have obvious sector or oscillatory zoning. We refer to this as unzoned titanite (1U; Figs. 3-5). It commonly, but not exclusively, occurs in the distinct cores of titanite grains bounded by dissolution surfaces. In the enclaves in the Little Cottonwood stock, unzoned areas occur in poikilitic titanite (type 1Up) that are compositionally different from other unzoned titanite.

Types 1O and 1S. A common primary titanite texture consisting of fine scale oscillating bright and dark zones in BSE images with linear boundaries mimicking the external shape of the titanite is type 1O (Figs. 3-5). Individual oscillations vary in thickness from $<1\ \mu\text{m}$ to $5\ \mu\text{m}$. Bright oscillations are up 1.5 times brighter than adjacent dark ones based on pixel values in BSE images (Supplementary Fig. B2). Oscillatory zonation is commonly explained by cyclic changes in pressure, temperature, or composition, or rapid advances of crystal faces with cyclically developed diffusion profiles in the surrounding melt (Shore and Fowler 1996; Melnik and Bindeman 2018). Many oscillatory zones include BSE-bright sectors forming “fir-tree” structures that are enriched in HFSE (type 1S). These are most often found along the “spines” of grains (Figs. 4 & 5). In our samples, these type 1S zones are enriched in REE, Y, Nb, Ta, U, and Th compared to other magmatic types. Sector zoning in titanite is thought to indicate non-equilibrium growth from a melt (Paterson and Stephens 1992; Hayden et al. 2008), although Watson and Liang (1995) have shown that sector zoning can develop even under equilibrium conditions due to slow lattice diffusion of trace elements in slow growth conditions. Hayden et al. (2008) have suggested that for calculating temperatures using their Zr-in-titanite geothermometer, bright sectors should be avoided. As with unzoned titanite (1U), some oscillatory zones are truncated by dissolution surfaces and overgrown by subsequent oscillatory zones (Fig. 5). In these cases, both zones are similar in composition and Zr-in-titanite temperature, indicating that the interior zones are likely not older inherited grains nor evidence of major shifts in magma composition, but formed from the same magma system as the titanite mantling it. The dissolution surfaces suggest, however, that growth of the grain was interrupted by some change in pressure, temperature, or magma composition, which caused resorption and then new titanite growth.

Type 1P. Some areas in titanite are not homogeneous or regularly zoned and instead are patchy in BSE images with irregular, variably shaped bright and dark patches that create a mottled texture. Resorbed, rounded or vermicular ilmenite inclusions are always found in these areas. We call this patchy zonation type 1P (Figs. 3 & 6). The outer boundaries of these patchy areas are commonly irregular, indicating uneven growth or, more likely, dissolution. The vermicular ilmenite inclusions are typically exsolved into brookite, ilmenite, and magnetite post magmatically (Figs. 6 & 7). Bauer (2015) found similar patchy areas in titanite in the Half Dome Granodiorite in central California. Broska and Petrik (2015) reported titanite surrounding earlier formed ilmenite in granites of the Western Carpathians. This textural type with anhedral oxide inclusions has been associated with ilmenite instability in melt, often triggered by changes in oxygen fugacity (higher oxygen fugacity favors ilmenite dissolution and stabilizes titanite) (Piccoli et al. 2000; McLeod et al. 2011).

Usually, these patchy areas form distinctive cores (type 1Pc) mantled by type 1O or type 1U zones. Rarely, this patchy texture forms a thin mantle around a distinct core (type 1Pm; Fig. 5). These patchy mantles have abundant Fe-Ti oxide inclusions and irregular voids and are similar in all respects to patchy cores (1Pc). REE patterns of some patchy cores have strong positive Eu anomalies (type 1Pe) and are distinct from the patterns of other patchy cores.

Secondary Hydrothermal Titanite Textures

Post-magmatic titanite forms by hydrothermal processes (Mazdab et al. 2008; Xie et al. 2010; Morad et al. 2011; Cao et al. 2015; Liu et al. 2018; Uher et al. 2019). In BSE images, it is usually darker than magmatic titanite and has higher concentrations of F and lower concentrations of REE and other HFSE (see below).

Type 2A. Some BSE-dark titanite forms irregular anhedral rims or overgrowths on magmatic titanite or magnetite (Figs. 3, 4). These overgrowths are usually unzoned but they may have oscillations or mottling. We interpret them to be secondary, non-magmatic titanite produced by hydrothermal alteration (type 2A). Locally, thin anhedral secondary titanite extends away from magmatic titanite along grain boundaries (Figs. 3b & 4b). This type of titanite has high F and low REE concentrations, similar to other types of hydrothermal titanite (Kowallis et al. 2018).

Type 2B. Commonly, small, thin, linear, and BSE dark grains of hydrothermal titanite form along cleavage planes of biotite altered to chlorite (Figs. 3B & 5A). Where primary titanite contacts chloritized biotite, feathery extensions of titanite formed between cleavage planes (Fig. 3B) indicating the role of lower-T fluids flowing along permeable cleavages (Supplementary Figs. A38, A52, & A53). These have been classified as type 2B. Secondary titanite of this type is very common in plutonic rocks (e.g., Xie et al. 2010; Morad et al. 2011; Kontonikas-Charos et al. 2019). Replacement of magmatic biotite by hydrothermal titanite may be explained by the loss of Ti from biotite during chloritization and the loss of Ca by dissolution of plagioclase during alteration. Analysis by laser ablation and even electron microprobe is difficult because the grains are typically small (<5 micrometers), anhedral, and intimately intergrown with the surrounding biotite/chlorite.

Type 2F. Aplite dikes and sills associated with the Notch Peak pluton have a distinctive high-Fe type of hydrothermal titanite, which typically forms on grain tips or as thin overgrowths (Fig. 9C). This type is bright in BSE images due to the high Fe content and not due to high REE content (Supplementary Figs. A22 & A23).

Type 2T. In the Notch Peak pluton, some secondary titanite replaces magmatic titanite while maintaining the shape of the original grain. We call this type 2T. This type appears in BSE images as areas of darker, often mottled titanite that crosscut magmatic zonation (Fig. 4A; Supplementary Figs. A18 & A19).

Type 3R. If secondary alteration is extensive, some titanite grains are completely replaced by masses of bladelike rutile or brookite, calcite, quartz, and magnetite that retain titanite's wedge-like shape (type 3R, Fig. 8, Supplementary Fig. A17). Complete replacement like this has been observed in other granites (*e.g.*, Broska et al. 2007, 2015; Middleton et al. 2013). In a study of the Soultz monzogranite, Middleton et al. (2013) showed that titanite had been replaced by an aggregate of anatase, calcite, quartz, and REE, Y, and Th fluorocarbonates (monazite, xenotime, thorite), but the original euhedral titanite crystal outline was retained.

GEOCHEMISTRY OF TITANITE

Titanite in the Notch Peak pluton

Titanite grains in the Notch Peak pluton are typically euhedral and range from 50 to 200 micrometers across. They typically make up around 0.9% of the granite (Figs. 4 & 9). We examined a total of 66 titanite grains from six different localities in the granite and two in aplite (Fig. 1). A few grains (<20%) have areas that are unzoned (type 1U textures), but most grains (~90%) have large oscillatory growth zones (1O) usually associated with sector zones (1S) (Fig. 4). In two samples (NB-100 and NP-3; Supplementary Fig. A13) from the eastern margin of the pluton almost 30% of the grains have patchy cores with ilmenite inclusions (type 1Pc). No other samples from Notch Peak pluton have these patchy cores.

Magmatic titanite around the pluton is compositionally similar, but titanite in NP-1 on average has lower REE and higher F (Figs. 10 & 11). REE patterns consistently have negative

Eu anomalies (Fig. 9) reflecting Eu-depletion in the parental magma and lower compatibility of Eu^{2+} in titanite. Unzoned, oscillatory, and bright sector titanite (types 1U, 1O, & 1S) have similar REE patterns with LREE (La, Ce, Pr, Nd) showing the greatest enrichment relative to chondrite (e.g., Colombini et al. 2011), a rise from La to Ce, negative Eu anomalies, and leveling off in heavy REE (Figs. 9A & 10C). Compared to magmatic titanite from other plutons in this study, Notch Peak titanite has high concentrations of Mn and Fe and high Fe/Al ratios (Fig. 12); moreover, it is richer in REE (Fig. 10) and most other trace elements (Fig. 13). However, as should be expected, bright sector zones (type 1S) are richer in most trace constituents than unzoned and oscillatory types, with the exception of Mn (Figs. 12 & 13B).

Minor tungsten and molybdenum deposits were once worked around the Notch Peak stock (Gehman 1958; Petersen 1976). We found that W is detectable in magmatic Notch Peak titanite, but its concentrations are low (<64 ppm with one outlier at 127 ppm and an average of only 12 ppm for those above the quantification limit) compared to that in titanite related to other W-mineralized skarns. For example, Che et al. (2013) found a range of 3 to 570 ppm W in titanite in rocks associated with W skarns in China. The highest values were in the skarns themselves, but associated magmatic rocks had titanite with as much as 100 ppm W. Xie et al. (2018) found a range of 1-25 ppm W in titanite from Jurassic plutons in Tibet. Mo (13-130 ppm) and Sn (37 to 746 ppm) were also found in detectable concentrations in the Notch Peak titanites. Average Sn (187 ppm) and Mo (45 ppm) concentrations in the magmatic titanite are comparable to other granitoids, but significantly lower than in titanite from mineralized skarns (Ismail et al. 2014; Fu et al. 2016; 2018). Other economically significant metals such as Zn, Cu, and Ni were below detection limits.

Anhedral grains or overgrowths of hydrothermal titanite (2A) were found on or near 18% of the grains, while secondary titanite replacing primary magmatic titanite but maintaining the shape of the original grain (type 2T), was found in only two samples—NP-1 and NP-6 (Figs. 4, 9, and Supplementary Fig. B11). In these two samples, about 68% of the titanite grains have some of this type 2T titanite. Both samples are from the southern margin of the pluton (Fig. 1). Titanite formed in altered biotite (2B) is common, but we were unable to obtain LA-ICP-MS or EMP analyses because the grains were too small. Compared to magmatic titanite, hydrothermal titanite (2A, 2T) typically has higher concentrations of F, Mg, Mo, V, and U, along with lower Th/U ratios (Supplementary Fig. 10 and 16). Hydrothermal titanite has lower concentrations of most other trace elements, including the REE (Tables 2, 3, and 4; Figs. 9 and 10B, 13A, 13B & Supplementary Figs. B1 & B11). F concentrations are about 2 times higher in this hydrothermal titanite, but Al is not higher (Fig. 12) as it typically is in hydrothermal titanite elsewhere (Kowallis et al. 2018). REE concentrations, except La, are lower by as much as a factor of 8, especially the middle to heavy REE (Fig. 10C, 12C). Unlike magmatic titanite, Eu anomalies are absent. Th is strongly depleted in the hydrothermal titanite, but U is enriched resulting in low Th/U ratios (Figs. 10 and 13). Perhaps the most striking difference is the strong depletion of Ta in secondary titanite (Fig. 10), which have concentrations 4 to 5 times lower than those in magmatic titanite. Nb is also depleted, but not as much—about 1 to 2 times. Thus, hydrothermal titanite has high Nb/Ta ratios. Despite these depletions of HFSE, Zr and Hf have about the same concentrations in both magmatic and hydrothermal titanite (Fig. 13) indicating similar crystallization temperatures. The concentrations of W, Sn, and Mo in hydrothermal titanite are similar but frequently lower than those in magmatic titanite (Table 3; Supplemental Table C3).

In two samples, NP-2 and NP-5, many titanite grains (type 3R; Fig. 8) have been partially or completely replaced by aggregates of secondary minerals (rutile or brookite, biotite, quartz, Ti-poor magnetite, ilmenite (some with MnO up to 28 wt%), and various Nb-Ta-Ti oxides probably of the aeschynite or euxenite groups), monazite, and Ca-REE-Y fluorides. In these two samples, no hydrothermal titanite was found. Any that formed was likely destroyed by the later replacement of titanite by secondary minerals.

Titanite-bearing aplite dikes and sills are common in and near the Notch Peak pluton. Nabelek (1986) found that the aplites are “depleted in Ba, Sr, and the REEs, while the concentration of highly charged elements, Zr, Ta, Hf, Th, and U, is about the same as in the major lithologic units in the stock.” He concluded that the aplites crystallized from melt saturated with a Cl-rich hydrothermal fluid. This conclusion is supported by the fact that titanite in the aplites has similar textural types as in main phase of the pluton (oscillatory, bright sectors, unzoned, and secondary) as well as similar major element compositions and temperature-dependent Zr concentrations. However, magmatic titanite in the aplites has higher F concentrations and distinct REE patterns with lower overall REE totals, deeper Eu anomalies, and middle REE (Gd-Er) depletions (Figs. 9 and 13) consistent with the overall lower concentration of REE in the aplites compared to the granite. Compared to other igneous titanites, the titanite in the aplites has very low Th/U ratios (<2) making them more akin to metamorphic or hydrothermal titanite (Abraham et al. 1984).

Hydrothermal titanite in the aplites has REE concentrations even lower than primary magmatic titanite and lacks Eu anomalies, but their Zr concentrations are not distinctly different from the magmatic titanite (Figs. 9 and 13). All of these features are similar to hydrothermal titanite in the main phase of the pluton. However, titanite in the aplites is more variable in

composition; the average composition of the various types of titanite in the other intrusions generally form distinct clumps or simple trends, while the average compositions of titanite types in the Notch Peak aplites scatter or cut across the other trends. In addition, the high-Fe titanite (type 2F) that typically is found on tips of grains or as thin overgrowths (Fig. 9; Supplementary Figs. A22 to A25) has average Fe/Al of 2.1, considerably higher than for Notch Peak titanite (1.0 to 1.1) or the other aplite types (0.9 to 1.2) and falls off the LREE-Fe/Al plot (Fig. 12D). This high-Fe titanite typically has strong positive Eu anomalies (Fig. 9). Compared to other types of hydrothermal titanite in the aplites, the average high-Fe type is relatively depleted in LREE, enriched in mid to heavy REE, as well as Y, Mo, Sn, F, and Hf (Fig. 13).

Titanite in the Ferguson Canyon intrusion

One sample of the small Ferguson Canyon intrusion was collected and only 4 titanite grains were located in the thin section. The titanite grains are small (50-100 μm) and euhedral to subhedral in shape. Abundance of titanite is the lowest of all the plutons sampled (<0.5 %). Of the four grains we examined, one had an unzoned core (type 1U) surrounded by oscillatory growth zoning with associated sector zoning (type 1O, Fig. 14). Two other grains had only oscillatory growth and sector zoning (type 1O), while the fourth grain appeared to have a core of oscillatory zoned titanite (type 1U) terminated by at least two periods of dissolution and overgrowth of hydrothermal titanite (type 2A). All four grains have small inclusions of zircon.

Due to small grain size and scarcity, laser ablation (LA) was not performed on Ferguson Canyon titanites, but Stearns et al. (2020) present multiple LA analyses, REE patterns, titanite and zircon ages, and Zr-in-titanite temperatures for this intrusion. The composition of titanite in the Ferguson Canyon intrusion is like that in the main phase of the Little Cottonwood stock but with lower total REE (especially LREE) and Zr (Stearns et al. 2020). Our electron microprobe

data also show that the Ferguson Canyon titanite is consistently different than titanite in the adjacent Little Cottonwood stock with higher concentrations of Al, F, and Y, and lower Ti, LREE, and Fe/Al ratios (Figs. 12 & 14, Table 4; Supplementary Fig. B1). Hydrothermal titanite from Ferguson Canyon is enriched in F, Al, and Mn and depleted in LREE-Y compared to coexisting magmatic titanite (Fig. 12). These trends are typical of hydrothermal titanite.

Titanite in the Little Cottonwood stock

Titanite in the main phase of the Little Cottonwood stock forms large subhedral to euhedral magmatic grains ranging from 100 μm to over 1 mm long. Titanite is more abundant (1.5%) here than in Notch Peak or Ferguson Canyon plutons. We examined 111 grains from the stock. Of these, 44 had distinct cores with 37 (33%) having patchy (type 1Pc) cores containing abundant resorbed ilmenite inclusions that have exsolved to assemblages of rutile/brookite, magnetite, and Mn-rich ilmenite (Figs. 6 & 7). Such patchy cores are not found in samples from the southwestern margin of the pluton (samples CC and LC-27). These southwestern samples are like Ferguson Canyon titanites. Oscillatory zones (1O) almost always mantle these cores. Dissolution surfaces, indicated by wavy borders that truncate existing zoning, are common at the core-mantle boundary and between some oscillatory zones (Fig. 5; Supplementary Figs. A34 to A53). Outside of the patchy cores, titanite may contain inclusions of magnetite, apatite, and zircon, although magnetite is usually found on the margins of the grains, not within them (Fig. 15). Inclusions of the major silicate minerals are rare and patchy mantles (1Pm) are absent. About 30% of titanite grains in the Little Cottonwood stock have either BSE-dark rims or irregular extensions between feldspars and quartz (type 2A, Figs. 3 & 14). Some titanite forms glomerocrystic clusters (Fig. 15). Secondary titanite forms blade-like replacements along

cleavage traces in chloritized biotite (type 2B) where it contacts magmatic titanite and in areas close to magmatic titanite (Figs. 3 & 15).

Primary magmatic titanite in the Little Cottonwood granodiorite has high Ti (>0.88 apfu) and Ca, along with low Fe, F, and Y compared to the others studied here (Figs. 12 & 13A; Tables 2, 3, and 4). Fe/Al ratios are in between those in magmatic titanite of the Notch Peak and Ferguson Canyon intrusions. Little Cottonwood titanites have similar REE patterns to titanites from the Notch Peak pluton in that they are LREE enriched and have $\text{La/Ce}_N < 1$, and negative Eu anomalies (Figs. 9, 13, & 15, Table 4; Supplementary Tables C3). However, they have distinctly smaller Eu anomalies than the titanites in the more evolved Notch Peak granite; the patchy cores (type 1Pc), have very minor negative to positive (1Pe) Eu anomalies (Fig. 15). These patchy cores with positive Eu anomalies also have relatively low concentrations of other REE. Little Cottonwood titanites are also distinctly depleted in the HREE-Y compared to Notch Peak and the patchy cores (type 1Pc) are the most depleted (Fig. 13). Sector zones (type 1S), the brightest zones in BSE images, have higher Zr and light to middle REE and lower F contents when compared to darker patchy cores, unzoned cores and mantles, or oscillatory zones (Figs. 12, 13, & 16; Table 4). Sn and Mo were detectable in trace amounts (10-150 ppm) while other ore elements such as Ni, Zn, Cr, and W were usually below quantification limits of a few ppm in the magmatic titanite. The compositions of titanite from the southwestern Little Cottonwood stock (samples LC-CC and LC-27; Fig. 1) typically overlap the rest of Little Cottonwood titanites in all elements, but trend slightly higher in Ca and lower in REE and Fe (Fig. 11).

Hydrothermal titanite replacing primary magmatic titanite (2T) is extremely rare in the Little Cottonwood pluton (only a few spots were found in LC-HFT). However, anhedral/overgrowth titanite (type 2A) is common and, like secondary titanite in the Notch Peak

pluton, tends to be BSE-dark and have low concentrations of most trace elements compared to magmatic titanite, including Na, REE (especially medium to heavy REE), Zr, Hf, Nb, and Ta, while incorporating higher concentrations of F, Al, Mg, and U (Figs. 13, 16, and Supplementary Fig. B12). Hydrothermal titanite generally has lower Th concentrations and consistently higher U, yielding the characteristic low Th/U ratios (<2). Titanites of type 2A have different REE patterns compared to magmatic titanite with less rise from La to Ce, no negative Eu anomalies, and have significantly lower Nd/Er ratios indicating stronger depletions of the MREE and Y (Fig. 15). Titanite that replaced or grew in close association with biotite (type 2B) was difficult to analyze due to small crystal sizes. Only 9 laser ablation spots and 7 electron microprobe spots were analyzed. These revealed that this type of titanite has the lowest concentrations of Ti and REE of any type studied and it has strong positive Eu anomalies. Titanite after biotite also has the highest F, Al, and lowest Fe/Al of any Little Cottonwood type (Figs. 12, 15, & 16). Hydrothermal titanite in the Little Cottonwood granodiorite also has Nb and Ta depletions and high Nb/Ta ratios, similar to those found in Notch Peak titanite (Fig. 16). Regarding ore metals, Mo (46 vs. 38 ppm) and Sn (122 vs. 102 ppm) were somewhat lower in concentrations in hydrothermal titanite than in magmatic titanite.

Titanite in the Little Cottonwood enclaves

Titanite in the mafic enclaves in the Little Cottonwood granodiorite forms either large (200 μm -2 mm) irregular masses, poikilitic grains, or euhedral grains similar to those in the main stock (Figs. 5B, 17 & 18; Supplementary Figs. A54 to A87). Titanite is much more abundant in the enclaves than in the host (3.0 vol.%). We examined 233 grains or glomerocrysts in nine different enclaves from three locations within the stock. Glomerocrysts of titanite (Fig. 5B), where each subcrystal has its own distinct zoning pattern, are common in the enclaves while

615 rare in the host granodiorite. In many enclaves, titanite crystallized late, as it contains large
616 poikilitic inclusions of plagioclase and hornblende or grew as anhedral masses surrounding oxide
617 cores (Figs. 17 & 18). Over 40% of grains examined had the poikilitic texture, but proportions
618 are quite variable. For example, in sample CH-153A, 90% of the titanite grains are poikilitic,
619 while in sample CH-153D, collected a few meters away, only 10% of the titanite grains are
620 poikilitic. Secondary titanite occurs as dark anhedral overgrowths (type 2A) found associated
621 with ~20% of grains and as irregular extensions into chloritized biotite (type 2B) found around
622 ~6% of grains (Fig. 17).

623 Non-poikilitic titanite grains in the enclaves typically have simple unzoned or patchy
624 cores (1U & 1Pc) with bright sectors (1S) traversing their central parts. Inclusions of apatite and
625 zircon are common. A few have mantles with distinct oscillatory zoning patterns (Fig. 18B).
626 Patchy cores (type 1Pc) are found in ~28 % of the grains examined. Those that do occur have
627 many irregularly shaped ilmenite grains that are now exsolved and altered, just like the 1Pc cores
628 in titanite in many parts of the Little Cottonwood granodiorite (Figs. 17 & 18). Patchy cores are
629 present in euhedral grains and, less commonly, in anhedral masses and poikilitic grains. A
630 unique type of titanite found only in four of the nine enclaves has patchy mantles (type 1Pm)
631 (Fig. 5B; Supplementary Figs. A70-A72 and A80). Patchy mantles are otherwise identical to
632 patchy cores. The most anhedral titanite grains are found in coarser grained enclaves and often
633 have patchy cores (1Pc) with abundant resorbed ilmenite inclusions and oscillatory or unzoned
634 mantles (1O & 1U), with anhedral overgrowths (2A) that abut feldspar and quartz or form blade-
635 like hydrothermal growths (2B) within biotite/chlorite or near biotite (2B) (Fig. 18A,
636 Supplementary Figs. A73, A83, A85-A87).

Compositions of magmatic titanite in the Little Cottonwood enclaves are very similar to those titanite in the host granodiorite but are less variable, with slightly higher Ti (by about 0.01 apfu; Fig. 12; Table 2). Trace element concentrations (Table 4) and REE patterns are also similar to those in titanite in the host granodiorite with LREE enrichments ($\text{La/Yb}_N \sim 40$) and negative Eu anomalies (Fig. 17). However, some grains lack Eu anomalies or have positive Eu anomalies, even in magmatic titanite (Supplementary Fig. B13). Positive Eu anomalies in some patchy titanite zones (types 1Pc & 1Pm) are similar to but not as large as those in the unusual type 1Pe zones in the host. Poikilitic titanite grains typically lack Eu anomalies (type 1Up; Figs. 12 & 17). Unzoned poikilitic titanite also has lower concentrations of REE and higher F than other magmatic types, but not as low as secondary titanite (type 2A), which is the lowest of the types in REE and highest in F and U (Figs. 17 & 18). HREE are more depleted than the LREE (Fig. 18). Hydrothermal titanite in the enclaves shares other key characteristics with that hosted in the granodiorite, including high Al (Fig. 12), small negative or even positive Eu anomalies (Fig. 17), as well as high Nb/Ta and low Th/U ratios (Fig. 18). No analyses were obtained on hydrothermal type 2B from the enclaves because of their small sizes.

Comparisons

Titanite from the Little Cottonwood stock has lower average concentrations of most trace elements than titanite in the Notch Peak granite and, consequently, higher Ti and Ca due to fewer substitutions (Figs. 12 & 13A; Tables 2, 3, and 4). The average Ferguson Canyon titanite has higher F, Al, and Y, and lower REE contents than titanite in the other intrusions. Fe/Al ratios are lowest in magmatic Ferguson Canyon titanite ($\text{Fe/Al}=0.75$), and next highest is Little Cottonwood ($\text{Fe/Al}=0.89$), with highest values in Notch Peak titanite ($\text{Fe/Al}=1.03$) (Fig. 12). Within each pluton, magmatic titanite (bright sectors, oscillatory zones, and unzoned areas; 1S,

1O, and 1U) have similar REE patterns (Figs. 9, 15, & 17). However, poikilitic titanite (1Up) and zones of patchy titanite (types 1Pc and 1Pm) in the Little Cottonwood granodiorite and its mafic enclaves have distinctive Eu anomalies. In Little Cottonwood granodiorite, magmatic titanites have negative Eu anomalies. In contrast, patchy cores (1Pc) have very small negative to large positive Eu anomalies. In the mafic enclaves, patchy (1Pc & 1Pm) and poikilitic (1Up) titanites also have positive Eu anomalies (Figs. 15 & 17).

Hydrothermal titanite REE patterns from Little Cottonwood stock and its enclaves are also similar to secondary Notch Peak titanite, with the exception that Notch Peak type 2 titanite REE pattern has a trough between Dy and Lu, while Little Cottonwood titanite REE patterns are flat over those same elements (Figs. 9 & 15). Additionally, hydrothermal titanite associated with biotite (type 2B) is quite different with patterns that have strong positive Eu anomalies. Notch Peak secondary titanite is more enriched in Fe, Mn, and F and has higher Fe/Al when compared to hydrothermal titanite from Little Cottonwood stock and enclaves (Fig. 12). Ferguson Canyon secondary titanite has the highest average Mn, Al, F, and Y.

ZR-IN-TITANITE GEOTHERMOMETRY

Zr concentrations in titanite can be used to estimate temperatures of crystallization using the pressure-sensitive geothermometer of Hayden et al. (2008). Their experimentally derived equation relies upon knowing the activities of TiO_2 and SiO_2 . Since quartz is present in all samples studied here, the a_{SiO_2} is assumed to be 1. There is no primary magmatic TiO_2 phase in any of the intrusions; rutile, anatase, and brookite are only found as secondary post-magmatic minerals. Consequently, it is difficult to estimate the a_{TiO_2} accurately. Hayden et al. (2008) recommend a minimum of 0.5 to avoid overestimating temperature. We assume $a_{\text{TiO}_2} = 0.75$ for

all samples, which gives at most a 20°C overestimation of the temperature if the assumption is incorrect (Hayden et al. 2008; Kohn 2017). The thermometer is also pressure sensitive, but a change of 0.1 GPa only yields a difference of ~10°C, which is well within analytical uncertainty for Zr concentrations. BSE bright sector zones, rich in Zr, were not used to determine temperatures because they do not appear to have been in equilibrium with co-existing melt (e.g., Hayden et al., 2008).

Notch Peak granite and aplites

The crystallization pressure for the Notch Peak granite is estimated to be between 0.1 and 0.2 GPa based on a stratigraphic reconstruction by Nabelek et al. (1986); we chose a fixed pressure of 0.15 GPa. The Al-in-titanite geobarometer of Erdman et al. (2018) gives an average P of 0.198 ± 0.014 GPa based on the average Al_2O_3 content of 1.36 ± 0.14 wt% in the titanite. The average zircon-saturation temperature (Boehnke et al. 2013) calculated from whole rock compositions is $767^\circ\text{C} \pm 11$. Zr-in-titanite temperatures are lower (Fig. 20). Magmatic titanite (1U and 1O) yields a temperature range of 792° to 684°C with an average of $718^\circ\text{C} \pm 21$ (n=61). Overall, these magmatic titanite temperatures correlate positively with REE contents (La-Yb as determined by LA-ICP-MS) (Fig. 20) and negatively with U, F, and Eu. Hydrothermal titanite (2T and 2A) yields a range of temperatures from 740° to 660°C with a somewhat lower average of $711^\circ\text{C} \pm 22$ (n = 12). A t-test indicates these average temperatures are statistically different. Hydrothermal titanite also has lower REE contents than magmatic titanite and the REE concentrations are poorly correlated with temperature (Fig. 20).

In the Notch Peak aplites, temperatures for magmatic titanite range from 751° to 694°C with an average of $734^\circ\text{C} \pm 14$ (n=12), which is higher than but overlaps with temperatures from titanite in the granite. However, temperature (or Zr content) is poorly correlated with REE

concentrations, which are lower than in titanite in the main intrusion. Temperatures for hydrothermal titanite range from 748° to 650°C, with an average of $690^{\circ}\text{C} \pm 31$ (n=9), about the same as hydrothermal titanite in the granite. The high-Fe titanite (type 2F) in the aplites have an average temperature of $718^{\circ}\text{C} \pm 34$ (n=4), but they have low REE contents that do not correlate with Zr-in-titanite temperatures (Fig. 20) consistent with a post-magmatic origin.

Ferguson Canyon intrusion

The Zr concentrations in titanite from the Ferguson Canyon intrusion (Stearns et al. 2020) are similar to the main phase of the Little Cottonwood complex or in titanite from Notch Peak. The pressure was assumed to be 0.26 GPa based on stratigraphic and structural reconstructions (Vogel et al. 2001; Stearns et al. 2020). With an average Al_2O_3 content of 1.55 ± 0.20 wt%, the Al-in-titanite geobarometer yields 0.217 ± 0.020 GPa as the pressure of crystallization. The Zr-in-titanite temperatures are $721^{\circ}\text{C} \pm 34$ (n = 114) which overlaps with Notch Peak and Little Cottonwood stock temperatures assuming an activity of TiO_2 of 0.75.

Little Cottonwood stock

Determining pressure for crystallization of the Little Cottonwood stock is difficult as it was exposed during flexural-isostatic uplift associated with the Wasatch normal fault, which produced a regional tilt to the east. As such, it probably crystallized at pressures ranging from 0.31 to 0.17 GPa decreasing to the east (John 1989; Parry and Bruhn 1987); this can lead to a difference of 17°C for the Zr-in-titanite thermometer. We assumed the pressure of crystallization was 0.25 GPa for samples from the middle of the pluton (LC-36, LC-HFT, and LC-TQ), and 0.19 GPa for those from the eastern part of the pluton (LC-23, LC-SB, and LC-SL). The Al-in-titanite geobarometer does not reproduce this pressure range or a systematic trend across the pluton; the overall average P is 0.190 ± 0.017 GPa based on an average Al_2O_3 content of $1.29 \pm$

0.10 wt% ($n = 1513$) for magmatic titanite. The average zircon-saturation temperature is $769^{\circ}\text{C} \pm 17$. Magmatic titanite (1U, 1O, 1Pc, and 1Pm) temperatures are lower (average $717^{\circ} \pm 16^{\circ}\text{C}$, $n = 138$), but increase with increasing REE content (Fig. 20). Patchy and unzoned titanite (1Pc, 1Pm, and 1U) typically yield slightly higher temperatures ($722^{\circ}\text{C} \pm 15^{\circ}$ ($n=29$) and $721^{\circ}\text{C} \pm 17$ ($n = 30$)) than oscillatory zoned titanite (1O) at $709^{\circ}\text{C} \pm 13^{\circ}$ ($n = 45$). BSE bright sector zones (1s) had an average temperature of $726^{\circ}\text{C} \pm 11^{\circ}$. These temperatures are similar to other estimates of crystallization temperature. Hanson (1995) calculated temperatures from plagioclase-hornblende of $707\text{--}736^{\circ}\text{C}$ and Stearns et al. (2020) found a range of $650\text{--}800^{\circ}\text{C}$ with a mode of 725°C using Zr-in-titanite (747°C when recalculated with $a\text{TiO}_2$ of 0.75). Hydrothermal titanite (2A) gave a lower average temperature of $674^{\circ}\text{C} \pm 33$ ($n = 39$). However, the strong correlation with REE content suggests that there was a range of crystallization temperatures from 700° to 600°C . Hydrothermal titanite with strong positive Eu anomalies and the lowest REE contents (Fig. 20) is almost always intergrown or associated with biotite (type 2B) and has the widest temperature range (734° to 597°C).

Little Cottonwood enclaves

The average zircon-saturation temperature for the enclaves is $753^{\circ}\text{C} \pm 14$. Magmatic titanite in mafic enclaves from the Little Cottonwood stock yields an average Zr-in titanite temperature of $731 \pm 30^{\circ}$ ($n = 48$) similar to that calculated for titanite in the host granodiorite ($717 \pm 16^{\circ}\text{C}$). However, patchy cores (1Pc) had a much higher average temperature at $759^{\circ}\text{C} \pm 44$ ($n = 12$) and ranged from 714 to 834°C . There is very little secondary titanite in the enclaves but the average temperature was $689^{\circ}\text{C} \pm 39$ ($n=9$), somewhat lower than for the magmatic titanite.

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OXYGEN ISOTOPIC COMPOSITION OF TITANITE

Diffusion experiments show that magmatic titanite is one of the first minerals that close to oxygen diffusion during cooling and that it is fairly retentive of magmatic $\delta^{18}\text{O}$ values (King et al. 2001; Zhang et al. 2006; Bruand et al. 2019). Thus, $\delta^{18}\text{O}$ values may reflect original growth conditions related to variations in magma temperature, composition, and oxygen fugacity and may shed light on pluton origin and hydrothermal alteration (King et al. 2001; Bonamici et al. 2014). High $\delta^{18}\text{O}$ may indicate magmatic origins. Lower or even negative $\delta^{18}\text{O}$ values for hydrothermal titanite are consistent with hydrothermal alteration involving low $\delta^{18}\text{O}$ meteoric water (e.g., Bonamici et al. 2011; Bonamici et al. 2014). The titanite grains examined here by secondary ion mass spectrometry for their oxygen isotope composition included magmatic and hydrothermal titanite of all textural types (Fig. 21; Table 5).

Oxygen Isotopes in the Notch Peak intrusion

A BSE image of a representative titanite grain (oNP-1-1) from the Notch Peak pluton is shown in Figure 21, along with $\delta^{18}\text{O}$ values and temperatures calculated from Zr concentrations. $\delta^{18}\text{O}$ in magmatic titanite, including the aplites, ranges from 5.7‰ to 6.4‰ and has an average of $6.0 \pm 0.3\text{‰}$ ($n = 28$; Table 8). King et al. (2001) found a $\delta^{18}\text{O}$ of 6.4‰ on titanite separated from our sample NP-1. Hydrothermal titanite (2A & 2T) has a slightly higher average $\delta^{18}\text{O}$ of $6.2 \pm 0.3\text{‰}$ ($n = 6$). The mean $\delta^{18}\text{O}$ values of magmatic and hydrothermal titanite from Notch Peak are indistinguishable according to a statistical t-test.

Oxygen Isotopes in the Ferguson Canyon intrusion

Magmatic titanite (types 1S and 1U) in the Ferguson Canyon intrusion have an average $\delta^{18}\text{O}$ of $4.9\text{‰} \pm 0.5$ ($n = 22$; Table 8). Only one grain contained secondary titanite (oFC-1; types 2A and 2T) which had an indistinguishable average $\delta^{18}\text{O}$ of $4.7\text{‰} \pm 0.3$ ($n = 4$).

Oxygen isotopes in the Little Cottonwood stock

A BSE image of a representative titanite grain (oHFT-7) from the Little Cottonwood stock is shown in Figure 21, along with $\delta^{18}\text{O}$ values and calculated temperatures. Magmatic titanite (1C, 1U) in the Little Cottonwood granodiorite has an average $\delta^{18}\text{O}$ of $4.9\text{‰} \pm 0.4$ ($n = 78$). There are no obvious differences in the oxygen isotopic composition of titanite from various parts of the intrusion (i.e, east vs west) or in the various textural types of magmatic titanite. Even the distinctive patchy cores (1Pc) with their higher REE and Zr-temperatures are indistinguishable from the other types (Fig. 22). Hydrothermal titanite (type 2A) ranges from 1.7 to 5.2‰ and has an average $\delta^{18}\text{O}$ of $4.6\text{‰} \pm 0.5$ ($n = 7$). Titanite in chloritized biotite (type 2B; Figs. 4 & 15F) has a significantly lower average $\delta^{18}\text{O}$ of $3.1\text{‰} \pm 1.2$ ($n = 5$). Some grains in chlorite in sample LC-HFT have $\delta^{18}\text{O}$ as low as 1.7‰. These relatively low $\delta^{18}\text{O}$ values indicate involvement of low $\delta^{18}\text{O}$ meteoric water in the formation of chlorite from biotite and associated titanite. Our microanalytical measurements are very similar to those on mineral separates by King et al. (2001). They found green hydrothermal titanite from the Little Cottonwood stock had an average $\delta^{18}\text{O}$ of 1.3‰ compared to 4.6‰ for magmatic titanite.

Overall, the $\delta^{18}\text{O}$ of magmatic titanite in the Little Cottonwood granodiorite (4.9‰) is about 1‰ lower than that in the Notch Peak granite (6.0‰), probably because of different compositions of the parent magmas. $\delta^{18}\text{O}$ values for whole rock samples of the Notch Peak granite range from 8.9 to 10.2‰ and average $9.4 \pm 0.4\text{‰}$ (Nabelek et al. 1983). No whole-rock $\delta^{18}\text{O}$ values for the Little Cottonwood stock have been published. They can be estimated from a calculated $\delta^{18}\text{O}$ zircon (6.2‰ using an empirical relationship between zircon and titanite; King et al. 2001). Then using the $\Delta(\text{WR-zircon})$ model of Lackey et al. (2008), the whole rock $\delta^{18}\text{O}$

values of the Little Cottonwood granodiorites should be about 7.6‰ or about 1.8‰ lower than the typical Notch Peak granite.

Oxygen isotopes in the Little Cottonwood enclaves

Magmatic titanite in mafic enclaves has oxygen isotope values similar to those in the rest of the complex (Fig. 22). Magmatic titanite (types 1U, 1Pc) has an average $\delta^{18}\text{O}$ of $5.1 \pm 0.3\text{‰}$ ($n = 43$) (Table 5; Fig. 22). Patchy titanite cores (1Pc) are indistinguishable with a mean $\delta^{18}\text{O}$ of $5.1\text{‰} \pm 0.2$ ($n = 7$).

DISCUSSION

The compositions and textures of titanite reveal fundamental new insights into the crystallization histories of the Little Cottonwood, Ferguson Canyon, and Notch Peak stocks. Possible crystallization paths are proposed to illustrate the growth history of titanite in the plutons (Figs. 23 and 24). Magma composition, magma mixing, changing intensive parameters (especially oxygen fugacity and temperature), as well as magmatic and meteoric hydrothermal fluids all play a role in developing the final characteristics of the titanite.

Crystallization of Titanite in the Notch Peak Pluton

Titanite in the Notch Peak intrusion evolved simply but had a prolonged history (Fig. 23). Even though the pluton is slightly chemically zoned in terms of whole-rock composition, titanite compositions are indistinguishable in all three phases of the pluton identified by Nabelek (1984). Titanite from Notch Peak is distinct from the other plutons by its low Ti contents and high REE, Fe/Al, Fe, and Mn (Figs. 12 and 13). Higher incompatible element abundances and distinct negative Eu anomalies are a result of the more fractionated melt composition of the aplite.

A simplified history of the titanite in the Notch Peak granite is sketched in Figure 23. Following emplacement at a shallow level, titanite co-crystallized with other phenocryst phases

from a relatively evolved granitic magma (Fig. 23A). As indicated by euhedral crystal shapes and inclusion relationships, titanite was not just a “late-crystallizing” phase; it continued to equilibrate with melt down to an average temperature of 718°C (Fig. 16). Some core zones are bounded by dissolution surfaces, which could suggest that these cores are earlier formed xenocrysts (Fig. 23B). However, these cores have REE patterns and major element compositions similar to surrounding parts of the grains, indicating they crystallized from the same melt. These dissolution surfaces are likely caused by local changes in pressure, temperature, or composition in the magma rather than mixing with another melt. Furthermore, the cup-shaped REE patterns of the granite (Fig. 2) show that previous generations of titanite had been removed from the magma before it was emplaced (Nabelek et al. 1986).

The magmatic titanite grains commonly have well-defined sector zones associated with oscillatory zones (Figs. 4 and 23c). Often, fir-trees created by sector zoning form backbones of the grains (Figs. 8b); these BSE-bright zones are enriched in REE-Y and Zr, as well as Fe, Mn, Mo, and Sn. Oscillatory zoned mantles are typically similar in overall composition, as well as in REE patterns, to cores (type 1U) (Figs. 4, 9, 12 & 13). These rings are thin and range between 5-10 µm across. As hypothesized by Melnik and Bindeman (2018), these oscillations could be the result of changes in the partition coefficients for highly compatible elements like Zr and REE due to small ~5° C temperature oscillations. However, the concentrations of these elements in adjacent laminations may be different by factors of 3 to 5 (Supplementary Figs. B2 & B3). It seems unlikely that such small changes in T could more than triple trace element partition coefficients. More likely, differing crystal growth and diffusion rates of elements in the melt created an oscillating disequilibrium system that yielded REE-rich, BSE-bright bands alternating with REE-poor, F-rich, BSE-dark zones (Patterson and Stephens 1993; Shore and Fowler 1996;

Melnik and Bindeman 2018). Euhedral magnetite, zircon, and apatite can be found as inclusions in or on the margins of titanite but are not as common or resorbed as ilmenite in the patchy zones of titanite from Little Cottonwood stock.

In short, euhedral shapes, magmatic zoning patterns, elemental composition (e.g., high REE and low F), high Th/U ratios, and high $\delta^{18}\text{O}$ values (6.0‰) show that most of the titanite originated as magmatic crystals, in contrast to Nabelek's (1986) suggestion that titanite formed as a result of biotite breakdown. However, hydrothermal titanite replacing biotite (2B) does form arrays of small, spike-like grains that are aligned along cleavages in chloritized biotite. Some titanite also crystallized from hydrothermal fluids to form anhedral overgrowths and interstitial extensions (type 2A); in places, this hydrothermal titanite replaced magmatic titanite (type 2T) (Figs. 4, 9, 23D, & 23E). These secondary types are typically unzoned or mottled, darker in BSE images. They have lower concentrations of most of the relatively insoluble HFSE like Nb, Ta, and the REE (Fig. 13). The high Nb/Ta ratios of the hydrothermal titanite are likely the result of the greater solubility of Nb in hydrothermal fluids. Experiments at high P and T show that rutile/fluid partition coefficients are higher for Ta than for Nb (Chen et al. 2018); thus, hydrothermal fluids and the titanite precipitated from them should be Ta-poor. Various Ta-Nb-Ti minerals, probably rutile, brookite, and aeschynite/euxenite, form during alteration of magmatic titanite and retain Ta relative to Nb. Despite having lower REE contents, the negative Eu anomalies of magmatic titanite were erased in hydrothermal titanite during equilibration with fluid; perhaps the fluids were oxidized and Eu was dominantly in the +3 state and behaved like other REEs. The hydrothermal titanite also has higher F, Mg, Mo, V, and U contents (Fig. 10; Table 4). The enrichments are probably the result of the greater solubility of some elements in fluid compared to melt. For example, insoluble Th concentrations are lower than in the primary

titanite and soluble U is higher, creating low Th/U ratios (<2), which are typical of hydrothermal titanite formed in oxidized environments where U^{6+} is highly mobile (e.g., Abraham et al. 1994). Kowallis et al. (2018) found similar depletions in REE and enrichment of F at the rims of titanite in other plutonic rocks. These significant compositional changes are not usually found in volcanic titanites with their shorter crystallization histories and lack of secondary titanite (Kowallis et al. 2018).

In the Notch Peak granite, the $\delta^{18}O$ of the hydrothermal titanite is indistinguishable from that of the magmatic titanite (6.0‰ vs. 6.2‰; Table 5; Fig. 21), showing that the hydrothermal fluids apparently exsolved from the magma and had little if any meteoric component. Nabelek et al. (1983) came to the same conclusion using whole rock O and H isotopes. Zr concentrations and calculated temperatures (average 711°C) are somewhat lower than for magmatic titanite (718°C), but higher than expected for titanite formed by hydrothermal alteration involving heated meteoric water. Nabelek et al. (1983) estimated that chloritization, which is contemporaneous with formation of type 2B titanite, occurred at about 600°C in the presence of magmatic fluid. In some parts of the Notch Peak pluton, post-magmatic, oxidative hydrothermal alteration has partially or completely replaced titanite with TiO_2 (rutile or brookite), ilmenite, monazite, biotite, quartz, and magnetite, forming skeletal structures with the same shape as the original titanite grain (type 2R; Fig. 23F; Fig. 8).

Aplites associated with Notch Peak pluton have distinctive whole-rock compositions but, like the main stock, seem to have fairly simple crystallization histories. The first formed titanite in the aplites is typically unzoned or weakly oscillatory, with significant bright sectors. Titanite in the aplites is REE-depleted compared to that in the main phase; this probably reflects the REE-depleted composition of the aplite magma (Fig. 13; Nabelek, 1986). Negative Eu anomalies

are deeper than in titanite in the granite (Fig. 9), attesting to more differentiation involving the removal of feldspars to form the aplite magma. F-enrichments are probably caused by the enhanced magmatic evolution as well. However, Zr and Hf are not depleted as they are in many evolved magmas; we interpret this to mean that their abundances are controlled more by magma temperature; Zr-in-titanite temperatures are higher or about the same as in the granite (average 734°C vs. 718° for magmatic titanite in the granite). The low Th, high U, and low Th/U ratios (<2) in the magmatic titanites from the aplites are more like hydrothermal titanite than other magmatic titanites. We suggest that this is because the aplites crystallized from a fluid-saturated magma, as initially proposed by Nabelek (1986).

Some titanite grains in the aplites were also affected by post-magmatic secondary processes that overprinted magmatic zonation. Compared to the magmatic titanite; this hydrothermal titanite is even more enriched in F and more depleted in REE, but not in Zr or Hf. Zr-in-titanite temperatures average 690°C. All these features suggest involvement of magmatic fluid in the origin of the secondary titanite in the aplites. Just like the hydrothermal titanites in the main phase, this titanite also lacks Eu anomalies (Fig. 9). The further depletion of REE, destruction of negative Eu anomalies, and enrichment in F may be an indication that the fluid had relatively low concentrations of less soluble REE and higher concentrations of more soluble F. In addition, thin rims and tips on a few titanite grains are enriched in Fe (0.08 apfu) and even more depleted in REE (Fig. 20). These grains typically have positive Eu anomalies (Fig. 9), probably as a result of the contemporaneous break down of Eu-rich feldspars as the late titanite formed. Nabelek (1986) concluded that the aplites crystallized from magma saturated with a Cl-rich fluid. Given the affinity of Cl to complex with Fe, these late Fe-enriched hydrothermal titanites should be expected.

Crystallization of Titanite in the Ferguson Canyon Intrusion

A simple crystallization history is indicated by the dominance of unzoned (1U) titanite textures in the Ferguson Canyon intrusion. The intrusion lacks mafic enclaves and complex titanite with patchy cores or rims. Thus, it is more similar to the Notch Peak granite, even though the titanites in the two intrusions are compositionally distinct (Fig. 12). The titanite in the Ferguson Canyon intrusion has higher concentrations of Al and F, and significantly lower LREE and Fe/Al ratios than either of the other plutons (Fig. 12, Supplementary Table C2). The $\delta^{18}\text{O}$ of magmatic titanite (4.9‰) is lower than at Notch Peak (6.0‰). These compositional and isotopic differences appear to reflect the differences in the two magmas (Fig. 22). Secondary titanite formed by interaction with magmatic hydrothermal fluids after solidification and has the typical elemental characteristics—enriched in Mn, F and Al and depleted in REE-Y (Fig. 12).

Crystallization of Titanite in the Little Cottonwood Stock

Titanite in the Little Cottonwood stock has the most diverse zoning of all the intrusions studied. It also contains mafic enclaves indicating a more complex crystallization history. Based on the physical and chemical evidence outlined above, we conclude that the enclaves formed by magma mixing. During one major, or possibly several minor magmatic recharge events, a hotter, reduced, ilmenite-magnetite-bearing, titanite-free mafic magma (Fig. 24A) mixed with a cooler, more oxidized, felsic, and calc-alkaline magma. Mixing and consequent oxidation caused ilmenite in the mafic magma to become unstable and partially resorb into the melt (Fig. 24B; McLeod et al. 2011; Bauer 2015; Jiang et al. 2016). This resulted in the rounded anhedral grains of ilmenite found in the patchy cores of many titanite grains. As the hybridized, but still mafic, magma continued to mix with felsic magma, it became more oxidized and silicic, and titanite crystallized on the resorbed ilmenite grains. During this dynamic mixing stage, patches of

935 various composition formed, dissolved, and formed again to create the patchy zones (1Pc; Fig.
936 24C). Anhedral titanite also formed on irregular magnetite grains. McLeod et al. (2011)
937 explained similar patchy zones with vermicular ilmenite in titanite from the Ross of Mull granite
938 as the result of successive periods of titanite stability and instability as the melt composition
939 changed rapidly during magma mixing and ilmenite dissolution. Perhaps because of a higher
940 temperature of crystallization, Zr and Hf are enriched in these patchy cores (Fig. 13) resulting in
941 Zr-in-titanite temperatures of 760° to 730°C with an average of 722°C; titanite in the host granite
942 crystallized at lower temperatures, averaging about 715°C. Moreover, the dissolution of Eu-rich
943 but REE-poor plagioclase during mixing and crystallization of the patchy titanite cores is
944 indicated by the positive Eu anomalies and low REE contents in 1Pc zones (Fig. 15). Resorption
945 of plagioclase and ilmenite probably released the Ca, Si, and Ti needed to form titanite. As the
946 dynamic mixing subsided, euhedral oscillatory rims (1O) with contemporaneous sector zones
947 formed mantles on the patchy cores (Fig. 24D & 24E). Intervening dissolution surfaces might
948 reflect repeated infusions of mafic magma or convective movement of titanite into hybridized
949 zones of varying composition and temperature. Some euhedral grains of titanite in the enclaves
950 have cores (1U) mantled by patchy oxide-rich zones (1Pm) indicating that more than one magma
951 mixing event may have occurred. In the enclave magma, some titanite crystallized late, after
952 hornblende and plagioclase and poikilitically enclosed them; this indicates a different formation
953 mechanism not involving ilmenite destabilization. As the mafic melt cooled and crystallized
954 during quenching, the silica activity eventually became high enough and the temperature low
955 enough to stabilize titanite in the evolved residual liquid. This poikilitic titanite lacks negative Eu
956 anomalies, perhaps a characteristic of the mafic magma. However, quenching during mixing
957 with the lower T felsic magma preserved the euhedral shapes of most of the grains. In the few

coarser enclaves, titanite grains are very anhedral with rims grown into and molded around the surrounding silicates (Fig. 17A) suggesting that titanite continued to grow from mushy magma with only a few percent of melt remaining.

Because titanite in the enclaves and in the granodiorite is compositionally indistinguishable (Figs. 12 & 13), we suggest that some of the titanite grains formed in the TiO₂-rich enclave magma and then mixed into the granodiorite magma. On the other hand, K-feldspar megacrysts, characteristic of the granodiorite, are found in some enclaves and probably mixed into them along with titanite and perhaps other phenocrysts. Mechanical shearing of enclaves into schlieren may have driven this type of mixing and dispersal of titanite.

Zr-in-titanite temperatures in the granodiorite (~715°C) are similar to those derived for other minerals like zircon (650-800°C; Ti-in-zircon, Stearns et al. 2020) and plagioclase-hornblende (707-736°C; Hanson 1995) consistent with the textural interpretations showing that titanite is not restricted only to late-stages of crystallization in the granodiorite. Titanite in the enclaves crystallized at an average temperature of 731°C, lower than expected for an intermediate composition magma; apparently, titanite did not crystallize until mixing or quenching modified the temperature and composition of the residual liquid.

Eventually, after final solidification of the Little Cottonwood granodiorite, hydrothermal fluids coursed through the stock along fractures and grain boundaries to produce secondary titanite (Fig. 24F). The O-isotopic composition of hydrothermal titanite rims (type 2A) in the Little Cottonwood stock suggest that the fluid may have been magmatic initially, with $\delta^{18}\text{O}$ in hydrothermal titanite as high 5.2‰--in agreement with John's (1989) interpretation that the hydrothermal fluids were largely magmatic. However, this hydrothermal titanite is compositionally distinct from the magmatic titanite and does not have high Zr-Hf contents or

calculated temperatures like the hydrothermal titanite in the Notch Peak granite. Moreover, the $\delta^{18}\text{O}$ of titanite in chloritized biotite (type 2B) ranges to as low as 1.7‰ indicating an increased role for meteoric water. King et al. (2001) found a similar isotopic contrast between green hydrothermal/metamorphic (1.3‰) titanite and igneous titanite (4.6‰) in the Little Cottonwood stock.

During this stage, BSE-dark anhedral extensions (type 2A) grew on existing titanite (Fig. 24F). Type 2A titanite has lower concentrations of HFSE, including REE, and higher F, Mg, U and Al compared to magmatic titanite in the stock. The latter four elements are relatively soluble in fluid, especially U in its 6+ state, and became enriched in the hydrothermal titanite. HFSE concentrations are probably low because of their relatively low solubility in aqueous fluids. High Nb/Ta and Th/U ratios are also the result of hydrothermal alteration as described above for the Notch Peak titanites. Likewise, HREE are more depleted than LREE in the hydrothermal titanite, because of the higher field strengths of these smaller ions and lower solubilities. Hydrothermal titanite also lacks negative Eu anomalies suggesting the hydrothermal fluid was more oxidized (magnetite is the major secondary oxide), increasing the proportion of Eu^{3+} and allowing Eu to behave like other REE; as a consequence, this type of hydrothermal titanite has smooth REE patterns without Eu anomalies. Ti was probably derived from the re-equilibration of titaniferous magnetite to magnetite in the cooling pluton. At lower temperatures, the fluid-driven conversion of biotite (with several percent Ti) to nearly Ti-free chlorite released Ti, Al, and F to form tiny blades of titanite (type 2B) along permeable cleavage traces. This titanite has even lower REE than type 2A, but higher F and Al concentrations, and strong positive Eu anomalies (Fig. 15). This is evidence that magmatic plagioclase had begun to alter, releasing Ca, Al, and Eu to the fluid for consumption by titanite forming in the biotite (e.g., Abraham et al. 1994). By the time

this type of titanite crystallized, any REE in the hydrothermal fluids may have been used up in the formation of type 2A titanite or the solubility of REE was lower in the cooler fluids dominated by meteoric water. Unlike Notch Peak, no replacement titanite (type 2T) was found, indicating less interaction with oxidized hydrothermal fluids. Low Zr contents in hydrothermal titanite yield temperatures as low as 600°C, but average about 690°C—30 to 40° cooler than for magmatic titanite.

After magmatic crystallization, the resorbed ilmenite in the patchy zones experienced subsolidus oxy-exsolution and further down temperature conversions to rutile, pyrophanite, and brookite. At the same time, magmatic phenocrysts of magnetite evolved to become nearly Ti-free, plagioclase became Or-poor, and K-feldspar lost Ab.

IMPLICATIONS

Titanite proves to be a versatile tool that can be used to understand the magmatic and post-magmatic histories of plutonic rocks. This is due to its low element diffusion rates, incorporation of a variety of trace elements, stability under magmatic and hydrothermal conditions, and its occurrence in many plutonic rocks (e.g., Aleinikoff et al. 2002; Hayden et al. 2008; Bonamici et al. 2011; and Stearns et al. 2020). A record of its crystallization and alteration is revealed with BSE imaging and correlative compositional and isotopic changes.

We exploited these features to examine the relationship between titanite compositions and growth patterns, during crystallization, cooling, and post-emplacement alteration of calc-alkaline plutons from Utah. Titanite provides valuable information about the thermal and chemical evolution of granitic plutons. Based on this study, titanite textures and compositions can be used to identify distinctive batches of magma (e.g., the differences between Notch Peak and Little Cottonwood titanite) and to decipher magmatic evolution within a plutonic system

(e.g., differences between the aplites and granite at Notch Peak). Titanite can also be an important indicator of magma mixing providing hints about changes in titanite forming reactions, along with the temperature, fO_2 , and composition of the different components (e.g., the Little Cottonwood stock and its mafic enclaves).

Unlike zircon, titanite typically records evidence for hydrothermal alteration as secondary titanite replaces or crystallizes on the margins of magmatic titanite. Compared to magmatic titanite, hydrothermal titanite has low Th, Nb, Ta, high Nb/Ta, and low Th/U ratios, low REE content, systematic changes in Eu anomalies, higher U, F, and sometimes Al. Thus, titanite compositions can be used to infer fluid temperature, composition, and oxidation state, as well as alteration processes (i.e., phases involved in reactions that make titanite). Moreover, the BSE textures, trace element, major element (F, Al, and Fe) and O-isotopic composition of secondary titanite can be used to evaluate the origin of various hydrothermal fluids. Here, for example, secondary titanite that formed from magmatic fluids with higher temperature and high $\delta^{18}O$ can be distinguished from titanite that formed at lower temperatures and nonmagmatic fluids. This approach should be useful for others attempting to unravel complex magmatic and hydrothermal histories of granitic plutons.

On the other hand, our studies indicate that U-Th-Pb geochronology with titanite is complicated by the ease in which titanite alters and by the mobility of U, which may be 3 to 5 times higher in concentration in hydrothermal titanite compared to coexisting magmatic titanite. Fortunately, BSE images and geochemistry can help sort primary from hydrothermal titanite, but laser ablation may encounter small domains of altered titanite that are undetected. Moreover, Al-in-titanite geobarometry (Erdmann et al. 2018) does not look promising. A 0.14 GPa difference (0.17 to 0.31 GPa corresponding to depths of about 6 to 11 km) in crystallization pressure across

1050 the Little Cottonwood stock is indicated by structural geology, fluid inclusions, and low
1051 temperature thermochronology (e.g., Parry & Bruhn 1987; John 1989; Kowallis et al. 1990;
1052 Armstrong et al. 2003; Ehlers et al. 2003). This difference is not reproduced from Al_2O_3
1053 concentrations in titanite. Instead, calculated pressure and Al_2O_3 concentrations in magmatic
1054 titanite are about the same across the pluton (average 0.198 +/- 0.014 GPa and 1.36 +/-0.14 wt%
1055 Al_2O_3). To reproduce the high P indicated for the western margin of the pluton, Al_2O_3 contents
1056 would need to be nearly double this average (2.47 wt%).

1057 Likewise, Zr-in-titanite thermometry is fraught as inferred from the wide range of
1058 calculated temperatures for a given grain (e.g., 100°C), the common development of oscillatory
1059 and sector zones with different Zr concentrations, and the low temperatures which contrast with
1060 whole rock Zr-saturation temperatures—and probably experiments, two-feldspar, two-pyroxene,
1061 amphibole, etc. geothermometers.

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1416

FIGURE CAPTIONS

Figure 1. Geologic maps of the (A) Little Cottonwood and Ferguson Canyon, and (B) Notch Peak plutons, Utah, with sample locations. Altered samples are represented by unfilled circles. Samples in which titanite was analyzed for its oxygen isotopic composition are marked with diagonal slashes. Map for the Little Cottonwood area is modified from Constenius et al. (2011) and Jensen (2019); the Notch Peak map is modified from Hintze and Davis (2002) and Nabelek et al (1983).

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Figure 3. Common textures for titanite from the Little Cottonwood stock displayed in BSE images. A) Grains LC-SB-2a & b with bright vermicular ilmenite in the core of grain b. B) Grains LC-SB-4a & b. Bright rounded vermicular grains in patchy cores are ilmenite

1440 (unlabeled). Larger subhedral bright grains are magnetite (Mag). Dark inclusions are apatite
1441 (Ap). Titanite types shown are: unzoned (1U), oscillatory (1O), bright sectors (1S), patchy cores
1442 (1Pc), secondary anhedral (2A), and secondary in chloritized biotite (2B).

1443 **Figure 4.** Common zoning patterns in titanite from the Notch Peak intrusion displayed in BSE
1444 images. A) Grains NP-006-1a & b. Both grains are partially replaced by dark hydrothermal
1445 titanite (2T). B) Grain NP-001-3 next to large magnetite grains (Mag) with a narrow rim of dark
1446 hydrothermal titanite (type 2A). Types shown are: unzoned (1U), oscillatory (1O), bright sectors
1447 (1S), secondary replacement (2T), and secondary anhedral (2A).

1448 **Figure 5.** Titanite from the Little Cottonwood stock. A) Grain LC-12-1 with typical dissolution
1449 surfaces (arrows) that truncate earlier growth zones. B) Cluster of grains in a mafic enclave
1450 (HTF-18-2-23) with cores lacking ilmenite inclusions, but with mantles having them (type 1Pm).

1451 **Figure 6.** Patchy cores (1Pc) in titanite are made of alternating dark and bright zones with highly
1452 irregular shapes, gradational to sharp wavy boundaries, and resorbed inclusions of ilmenite (A)
1453 as seen here in grain LC-HFT-1. The greater magnification in (B) shows the details of this
1454 mottled texture. The ilmenite inclusions have experienced subsolidus oxy-exsolution and now
1455 consist of ilmenite (Ilm), brookite (Brk) or rutile (Rt), and magnetite (Mag) which is also shown
1456 in in Figure 7. These patchy cores are prominent in titanite from the Little Cottonwood stock but
1457 are uncommon or absent in Notch Peak and Ferguson Canyon intrusions.

1458 **Figure 7.** Patchy zones in titanite have partially resorbed ilmenite inclusions. One inclusion in
1459 LC-HFT-1 (Fig. 6) BSE and maps for Ti, Fe, and Mn proportions. Magmatic high-Fe ilmenite
1460 inclusions experienced oxy-exsolution to form ilmenite (Ilm, pink on the Mn map and gray on
1461 BSE image), low-Ti magnetite (Mag, dark red on the Fe map and white on BSE image), and

1462 brookite (Brk, dark blue in Ti and white on Fe maps and dark gray on BSE image) in the slowly
1463 cooled plutons.

1464 **Figure 8.** Replacement of titanite (3R) in the Notch Peak pluton. (A) Grain NP-005-6 has been
1465 completely replaced by secondary ilmenite, brookite, magnetite, biotite, monazite, xenotime, Nb-
1466 Ti oxides, Ca-REE-fluorides, and quartz, but retains the original shape of the crystal. (B) Grain
1467 NP-002-5 has only some areas replaced. Unzoned (1U), oscillatory (1O), and bright sectors (1S)
1468 are also present.

1469 **Figure 9.** Titanite from the Notch Peak pluton. (A & B) Chondrite-normalized REE patterns for
1470 different textural types of titanite in the granite. (C) BSE image of titanite grain in sample NP-6.
1471 (D & E) REE patterns from titanite in the aplite. (F) BSE image of titanite from aplite sample
1472 NP-18-2a. Note the secondary overgrowth of high-Fe titanite (type 2F) on the aplite grain and a
1473 patch of the same in the interior that is probably an artifact of the cut through the grain. Other
1474 types shown are: unzoned (1U), oscillatory (1O), bright sectors (1S), and replacement (2T).

1475 **Figure 10.** Composition of titanite from the Notch Peak pluton. A) F vs LREE
1476 (La+Ce+Sm+Nd), both from EMPA. Dots are individual analyses and larger triangles are
1477 averages for each textural type. B) The composition of average hydrothermal titanite divided by
1478 average magmatic titanite (LA-ICPMS data except for F, Fe, and Al which is from EMPA). C)
1479 REE patterns for different titanite zones accentuating the depletion of REE in secondary titanite
1480 (all types of secondary combined).

1481 **Figure 11.** F versus LREE (by EMPA) in (A) Little Cottonwood stock and (B) Notch Peak
1482 pluton. According to statistical t-tests suggest the means are significantly different with the
1483 exception of LC-SL and LC-TQ and NP-2 and NP-5.

Figure 12. Average compositions (by EMPA) of titanite in the different units studied. (A) Mn vs. Ti, (B) Y vs. F, (C) La vs. Ce, (D) LREE vs. Fe/Al ratio, and (E) Al vs Fe. On (D), the high-Fe titanite type (2F) from the aplites is not plotted because the Fe/Al ratio is twice as high (>2.0) as other Notch Peak types. Likewise, type 2B (formed by biotite replacement) is not plotted on (A), (B), and (E) because of its high F and Al and low Ti concentrations. Typical hydrothermal titanite in the Little Cottonwood stock averages 0.07 F pfu, while type 2B averages 0.19 F pfu. Ti concentrations are low in type 2B (~ 0.75 pfu) because of very high Al (~ 0.20 pfu).

Figure 13. Primitive mantle normalized plots of average titanite compositions (LA-ICP-MS analyses except for F by EMPA). (A) Magmatic titanites from Notch Peak have higher concentrations of most plotted elements than their counterparts from Little Cottonwood stock, but titanite from Notch Peak aplites has distinctly lower concentrations of REE. Comparison of magmatic and hydrothermal titanite: (B) Notch Peak; (C) Little Cottonwood stock; and (D) Little Cottonwood enclaves (D). Compared to magmatic titanite, hydrothermal titanite is generally depleted in all these elements, except U and F.

Figure 14. Titanite from the Ferguson Canyon intrusion. (A) F vs. LREE (La+Ce+Sm+Nd via EMPA). Dots are individual analyses and larger symbols are averages for each type. Hydrothermal titanite is distinctly depleted in LREE and enriched in F. (B) BSE image of grain FC-4 showing unzoned (1U), oscillatory (1O), and bright sector (1S) types and bright zircon inclusions (Zrn).

Figure 15. Titanite from the Little Cottonwood stock. (A-E) Chondrite-normalized REE plots for different types of titanite in Little Cottonwood stock. Bright sectors (1S), unzoned (1U), oscillatory (1O), and patchy core (1Pc) types have similar REE patterns, although the patchy cores tend to have smaller Eu anomalies. Hydrothermal titanite grains have lower REE contents

and lack Eu anomalies, except for type 2B which has strong positive Eu anomalies. Several analyses in patchy zones also have strong positive Eu anomalies (1Pe) and may be evidence of for a hydrothermal origin. (F) BSE image of a cluster of titanite grains with different types labeled as well as magnetite (Mag) and zircon (Zrn) grains. Photo is about 400 μm wide.

Figure 16. Composition of titanite from the Little Cottonwood stock. (A) F vs LREE (electron microprobe data). Both types of secondary titanite (2T and 2B) are LREE-poor, but type 2B is very F-rich. (B) Ratio of average hydrothermal to magmatic titanite. Hydrothermal titanite (2A) is enriched in U, Mg, F, and Al and has low middle REE (Nd to Er) and anomalous Eu compared to magmatic titanite.

Figure 17. Titanite in mafic enclaves from the Little Cottonwood stock. (A-C) Chondrite-normalized REE diagrams for the different types of titanite. (D) Average chondrite normalized REE diagram for the different types. (E) Large irregular mass of patchy titanite (LC-SB-18-5-1) rimming grains of magnetite and resorbed ilmenite showing the poikilitic nature of some of the titanite in the enclaves, perhaps representing an early stage of resorption of ilmenite and its replacement by titanite; (F) LC-HFT-18-6-3, a poikilitic group of grains with titanite surrounding earlier formed silicates.

Figure 18. Titanite in mafic enclaves from the Little Cottonwood stock. (A) F vs. LREE for titanite in enclaves. (B) Ratio of the composition of average hydrothermal titanite to magmatic titanite in the mafic enclaves (LA-ICPMS data). Secondary titanite (2A) is enriched in U and F and has anomalous Eu compared to magmatic titanite.

Figure 19. Common titanite textures from the Little Cottonwood stock enclaves in BSE images. (A) Large anhedral mass of titanite (SB-18-5-12) with a patchy core (1Pc) and large magnetite

1529 (Mag) grains on the margin. Hydrothermal titanite (2A) formed on the magnetite grain to the left
1530 and in altered biotite (2B). (B) Large euhedral titanite grain (HTF-18-1-1) with a patchy core
1531 (1Pc) and oscillatory rim (1O) was overgrown by hydrothermal titanite (2A). Resorbed ilmenites
1532 (Ilm) in both grains are now composed of intergrown ilmenite + magnetite + brookite.

1533 **Figure 20.** Zr-in-titanite temperatures. Temperature vs. (A) total REE and (B) Eu/Eu*.
1534 Compared to magmatic magmatic titanite (circles), hydrothermal titanite (x) in the Little
1535 Cottonwood stock tends to yield lower calculated T (690°C) and positive Eu anomalies (Eu/Eu*
1536 >1). Eu was not as mobile during precipitation of hydrothermal titanite in the Notch Peak
1537 intrusion based on the overlap of Eu/Eu* for the two types. In the Little Cottonwood stock,
1538 hydrothermal titanite associated or intergrown with biotite (type 2B) has the highest Eu/Eu*,
1539 while at Notch Peak the high Fe zones in titanite from the aplites have the highest Eu/Eu*. Zr-in-
1540 titanite temperatures were calculated using 0.75 as the a_{TiO_2} .

1541 **Figure 21.** Spot maps of two grains (oNP-1 and oHFT-7) showing $\delta^{18}\text{O}$ and Zr-in-titanite
1542 temperatures (except for the 2B zone on HFT-7 that was too small to analyze by LA-ICP-MS).
1543 Magmatic (1S,1U, and 1O) and secondary types (2A) have similar $\delta^{18}\text{O}$ values, with 2A slightly
1544 lower. Titanite associated with biotite (2B) is lower still (2.3‰) suggesting interaction with
1545 meteoric water with low $\delta^{18}\text{O}$.

1546 **Figure 22.** Histograms of $\delta^{18}\text{O}$ of titanite collected using SIMS. $\delta^{18}\text{O}$ values for magmatic
1547 titanite from the Notch Peak pluton are typically higher than for titanite from the Little
1548 Cottonwood stock (average 6.0‰ vs. 4.9‰), reflecting the original magmatic compositions.
1549 $\delta^{18}\text{O}$ of hydrothermal titanite (2A) in the Notch Peak pluton overlaps with magmatic titanite.
1550 $\delta^{18}\text{O}$ of hydrothermal titanite (2A, 2B, and 2T) in the Ferguson Canyon and Little Cottonwood
1551 stocks extends to lower values than magmatic titanite.

1552 **Figure 23.** Crystallization of titanite in the Notch Peak granite. (A) Unzoned titanite (1U)
1553 crystallizes from granitic magma. (B) Sporadic dissolution events resorb part of this grain. (C)
1554 New growth of magmatic titanite mantles the unzoned core, usually with oscillations (1O) linked
1555 to sector zones (1S). (D) At a later stage, secondary titanite (2A) crystallizes from exsolved
1556 magmatic fluid to form BSE dark (REE-Y-poor, F-rich) anhedral overgrowths. (E) Some grains
1557 are partially replaced by BSE-dark hydrothermal titanite (2T). (F) Locally, titanite is completely
1558 replaced by secondary minerals (3R), including ilmenite (blue), magnetite (green), biotite
1559 (brown) and a TiO_2 phase (red), during reaction with oxidized fluid.

1560 **Figure 24.** A typical crystallization path for titanite in the Little Cottonwood stock. (A) Ilmenite
1561 (blue) grows in low $f\text{O}_2$, mafic magma. (B) Ilmenite is resorbed when this magma mixes with
1562 higher $f\text{O}_2$ calc-alkaline felsic magma. (C) Patchy titanite (1P) grows during the reaction of
1563 ilmenite with the felsic magma and preserves partially resorbed ilmenite. (D) After mixing,
1564 unzoned titanite (1U) mantles the core. (E) Oscillatory growth (1O) ensues to form the rim of the
1565 grain. Growth and dissolution alternate. (F) Hydrothermal titanite forms as hydrothermal fluid
1566 forms BSE-dark anhedral overgrowths (2A) or F-rich REE-poor blade-like anhedral (2B) where
1567 biotite converts to chlorite.

1568

LIST OF TABLES

1. Textural classification of titanite
2. Composition of selected titanite grains from the Notch Peak Granite, Ferguson Canyon intrusion, and Little Cottonwood stock in atoms per formula unit (pfu)
3. Trace element concentrations in selected titanite grains from the Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock
4. Average composition of titanite grains from the Notch Peak granite and Little Cottonwood stock
5. Representative oxygen isotopic compositions and Zr-in-titanite temperatures for titanite from the Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock

SUPPLEMENTARY MATERIALS

- Appendix A: Sample pictures and BSE images of titanite
- Appendix B: Supplementary figures
- Appendix C: Supplementary tables
- C1. Major and trace element composition of granitic rocks from the Notch Peak granite, Ferguson Canyon intrusion, and the Little Cottonwood stock, Utah
 - C2. Electron microprobe analyses of titanite
 - C3. Laser ablation ICP-MS analyses of titanite
 - C4. Brightness correlation
 - C5. Zr-in-titanite thermometry
 - C6. Oxygen isotopic composition and Zr-in-titanite temperatures

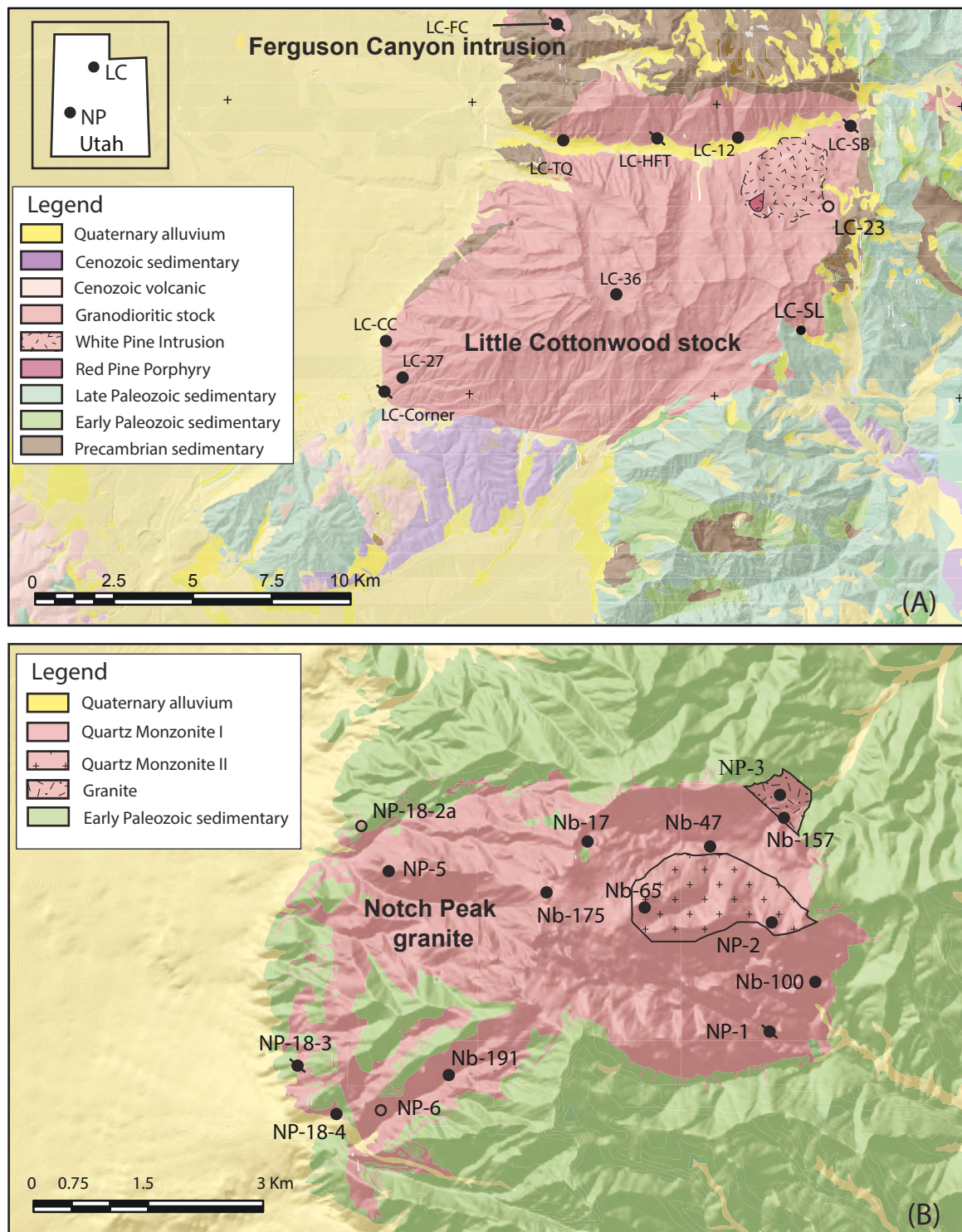


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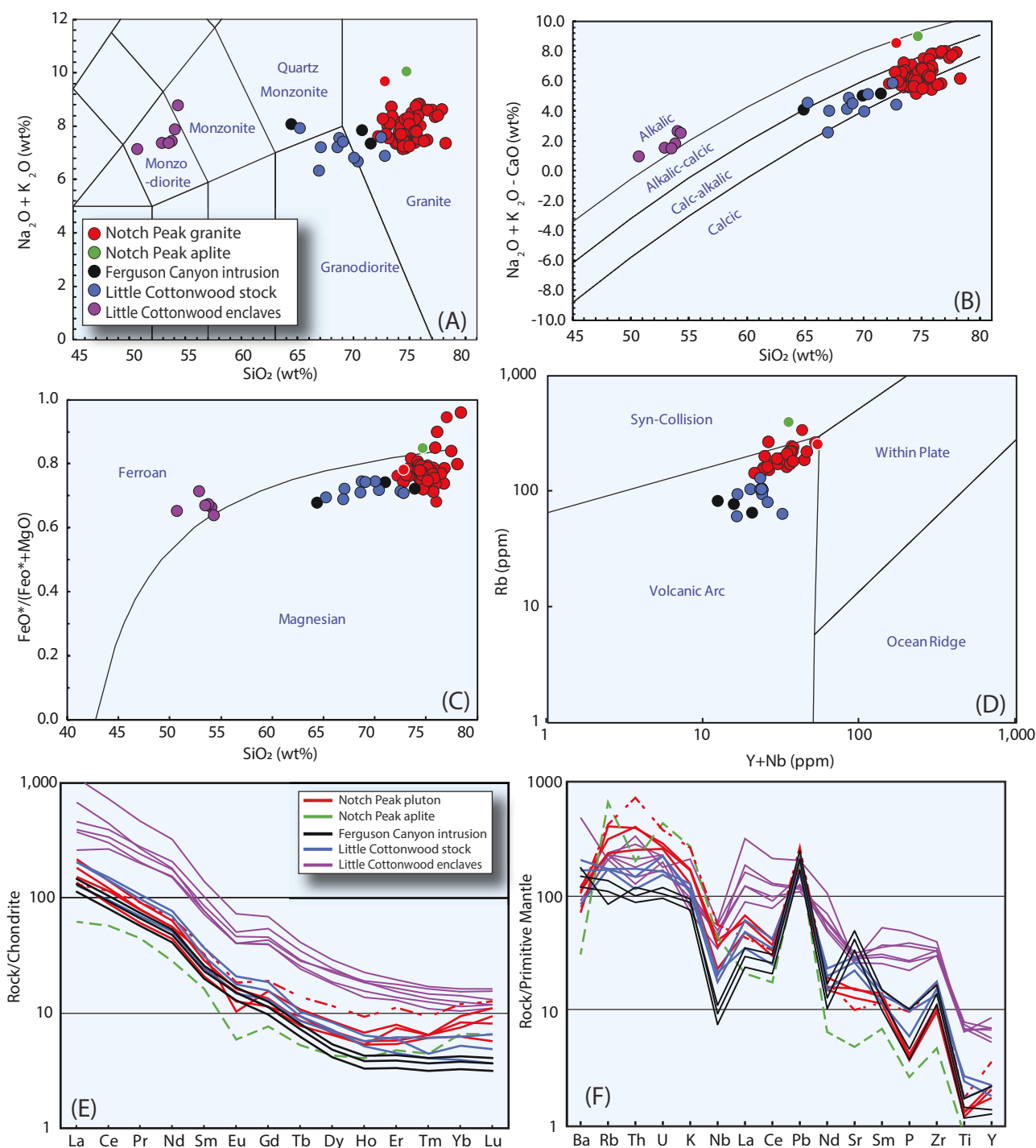


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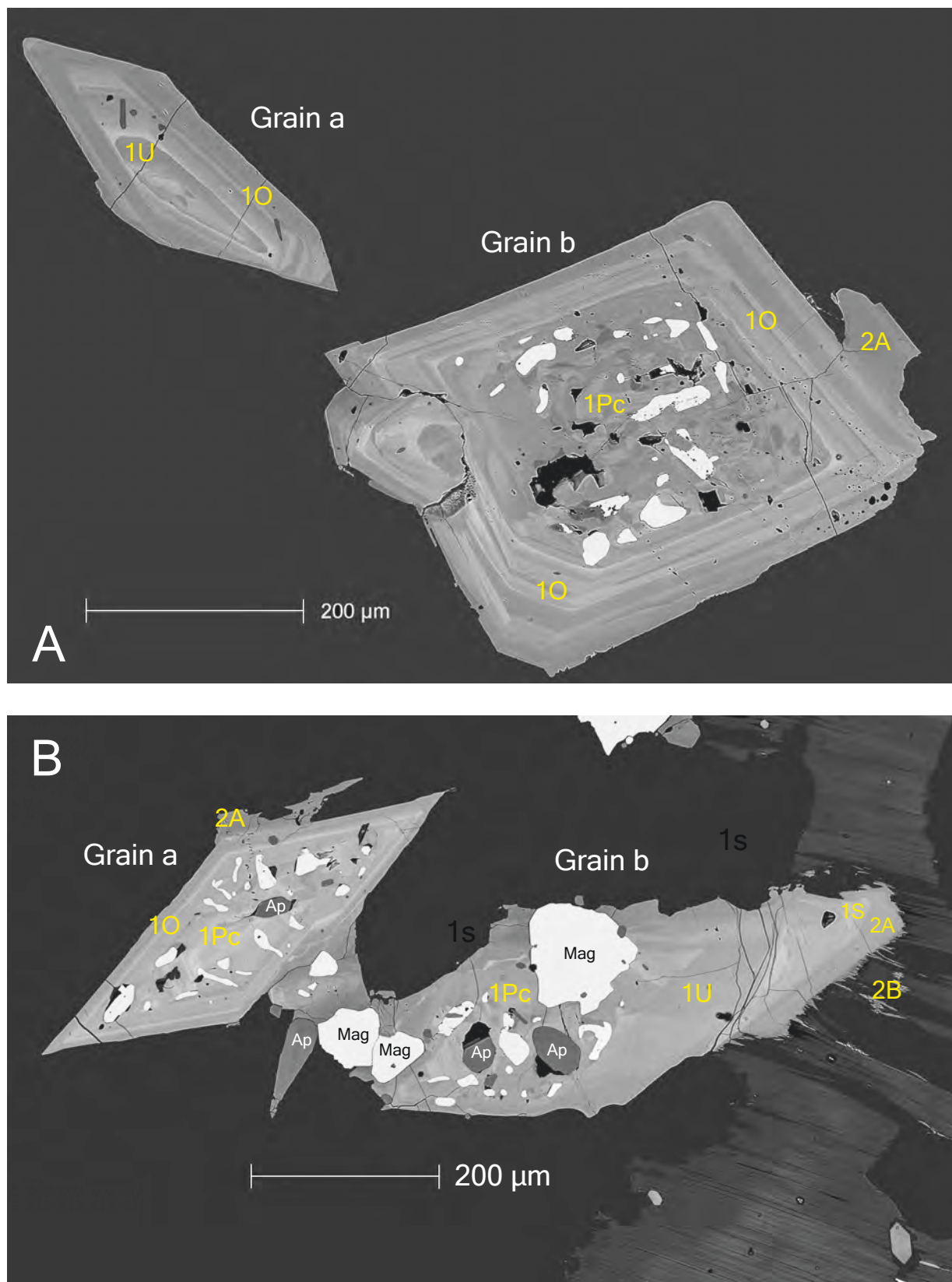


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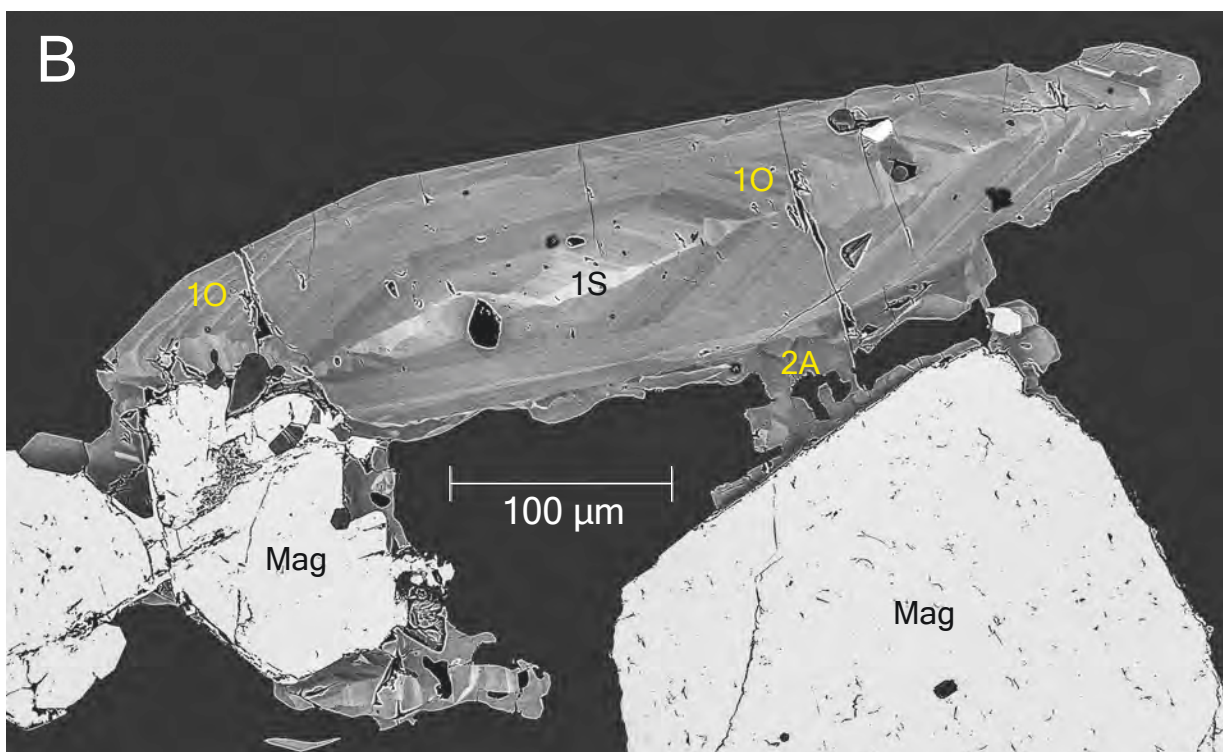
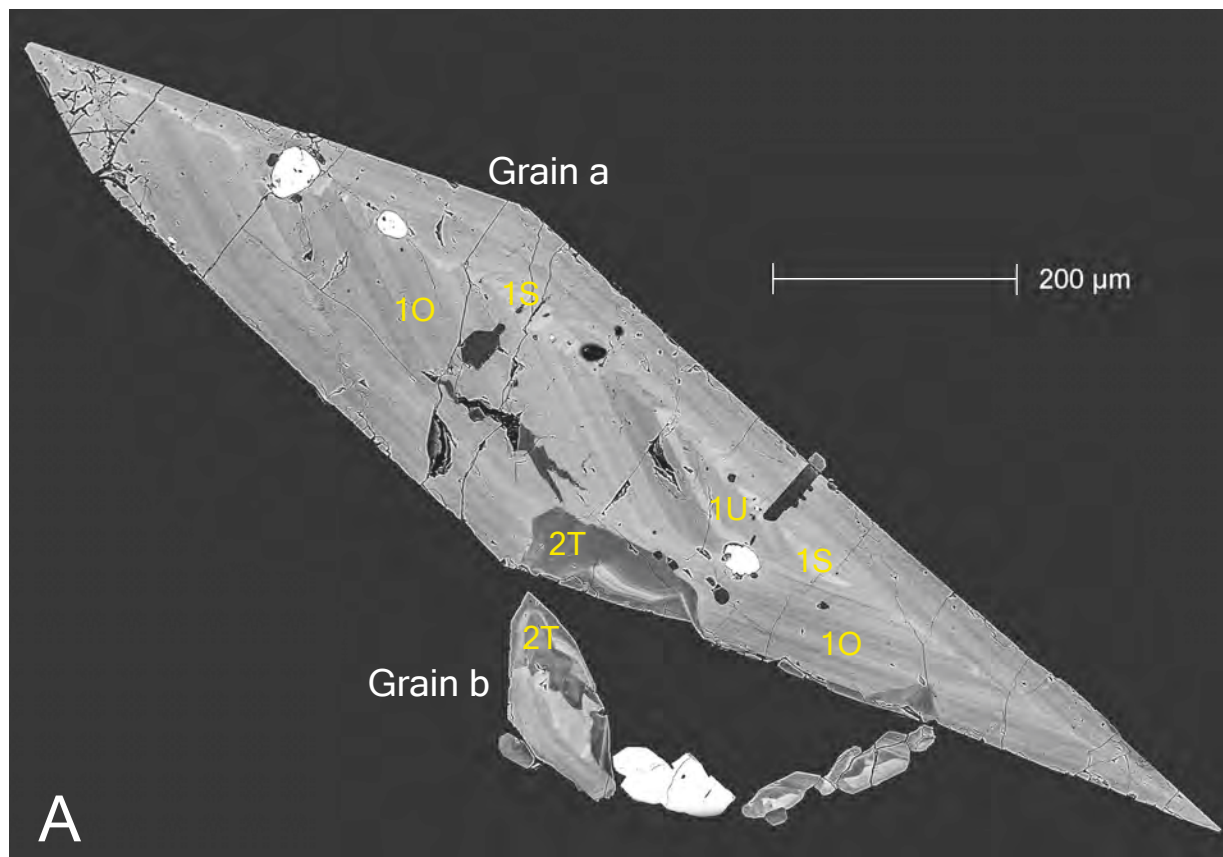


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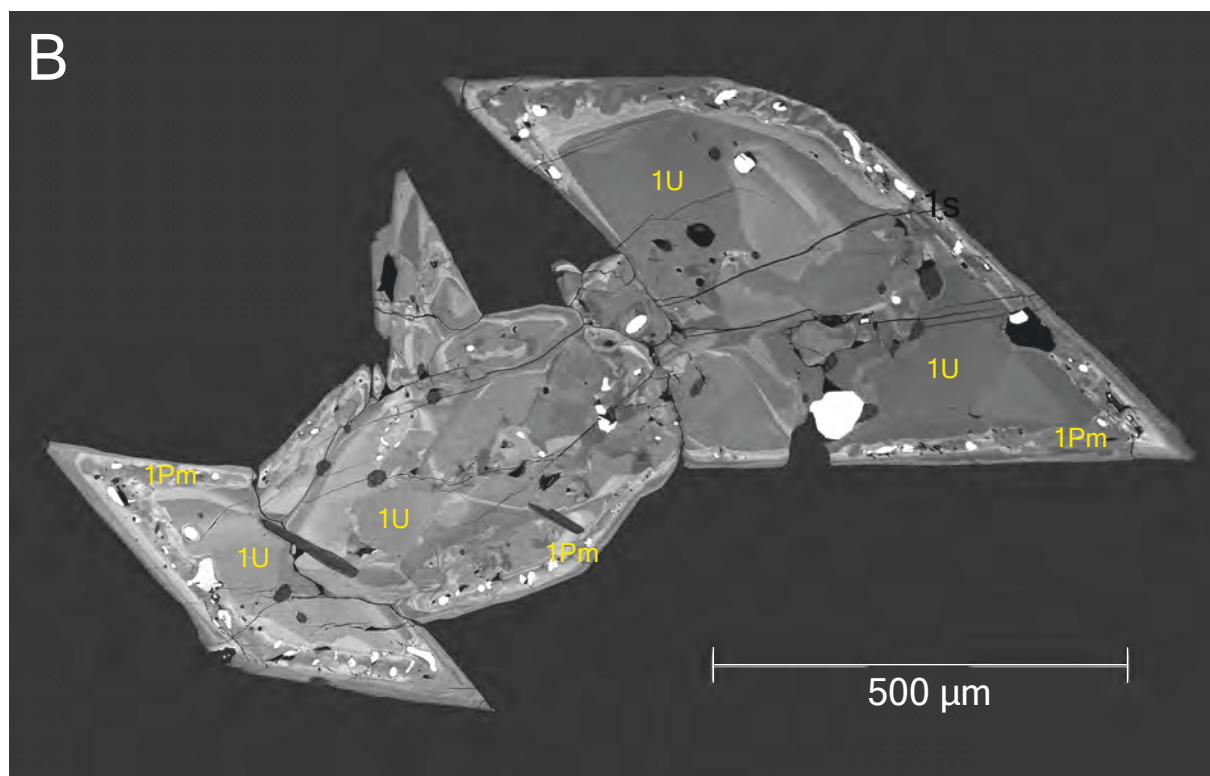
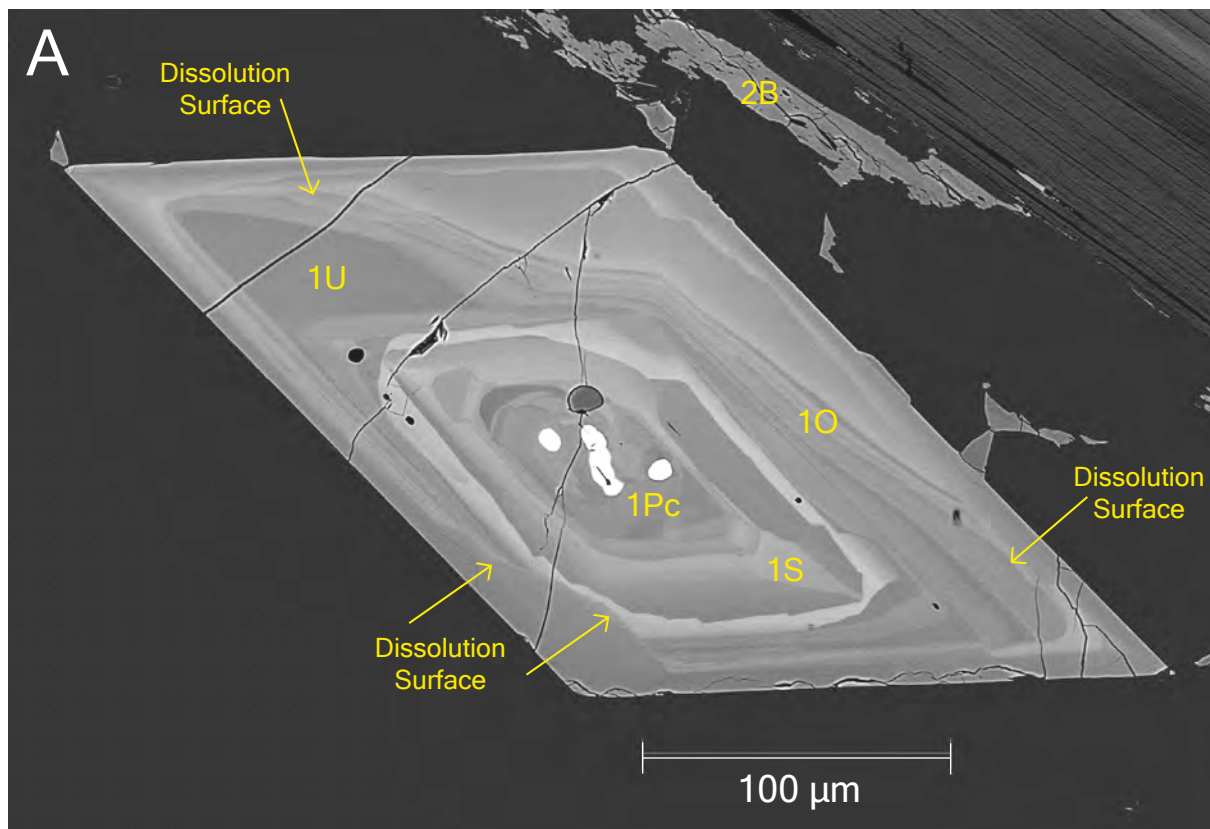


Figure 5. Titanite from the Little Cottonwood stock. A) Grain LC-12-1 with typical dissolution surfaces (arrows) that truncate earlier growth zones. B) Cluster of grains in a mafic enclave (HTF-18-2-23) with cores lacking ilmenite inclusions, but with mantles having them (type 1Pm).

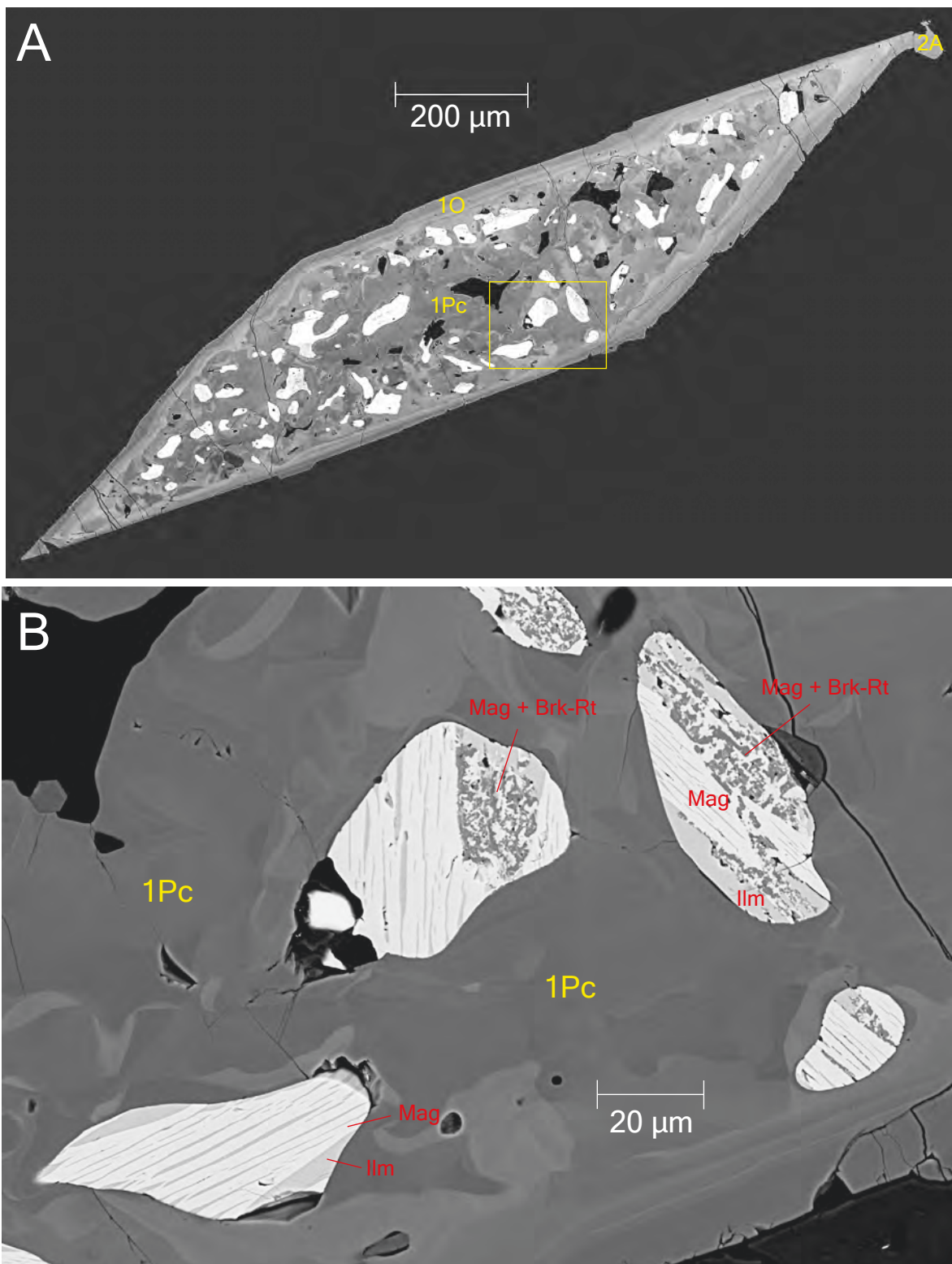


Figure 6. Patchy cores (1Pc) in titanite are made of alternating dark and bright zones with highly irregular shapes, gradational to sharp wavy boundaries, and resorbed inclusions of ilmenite (A) as seen here in grain LC-HFT-1. The blow-up in (B) shows the details of this mottled texture. The ilmenite inclusions have experienced subsolidus oxy-exsolution and now consist of ilmenite (Ilm), brookite (Brk) or rutile (Rt), and magnetite (Mag) which is also shown in in Figure 7. These patchy cores are prominent in titanite from the Little Cottonwood stock but are uncommon or absent in Notch Peak and Ferguson Canyon intrusions.

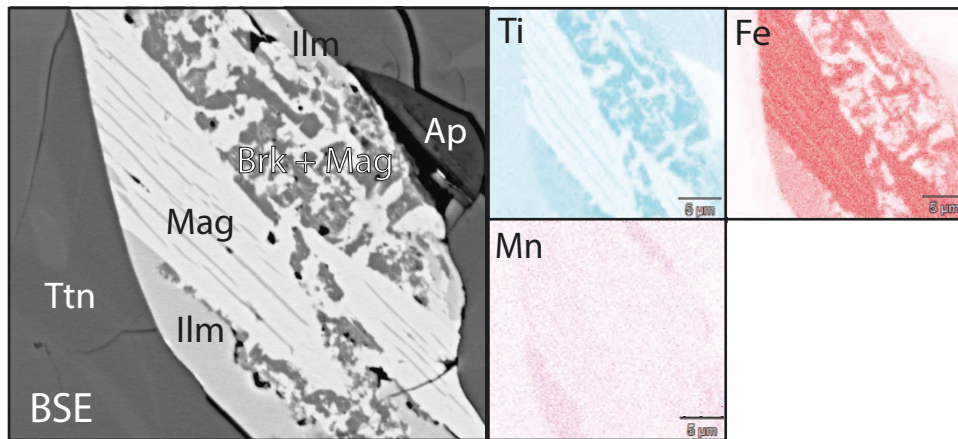


Figure 7. Patchy zones in titanite have partially resorbed ilmenite inclusions. One inclusion in LC-HFT-1 (Fig. 6) BSE and maps for Ti, Fe, and Mn proportions. Magmatic high-Fe ilmenite inclusions experienced oxy-exsolution to form ilmenite (Ilm, pink on the Mn map and gray on BSE image), low-Ti magnetite (Mag, dark red on the Fe map and white on BSE image), and brookite (Brk, dark blue in Ti and white on Fe maps and dark gray on BSE image) in the slowly cooled plutons.

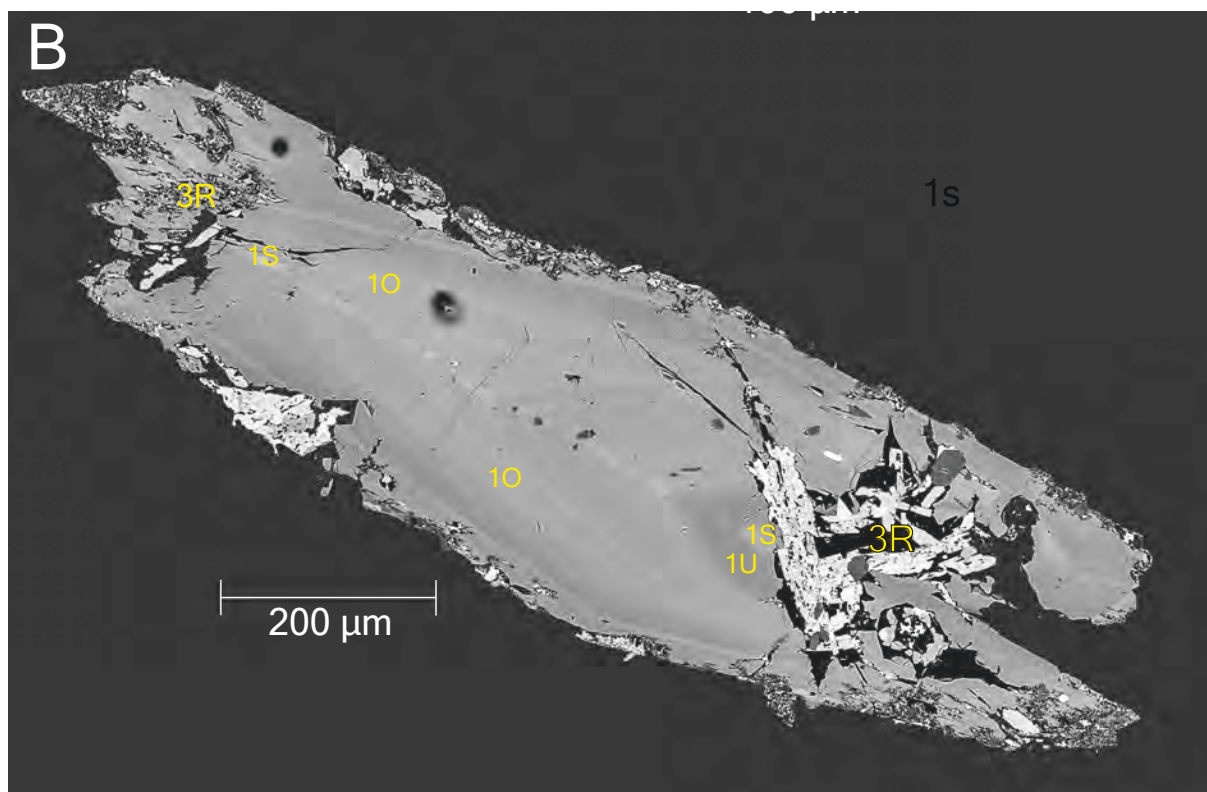
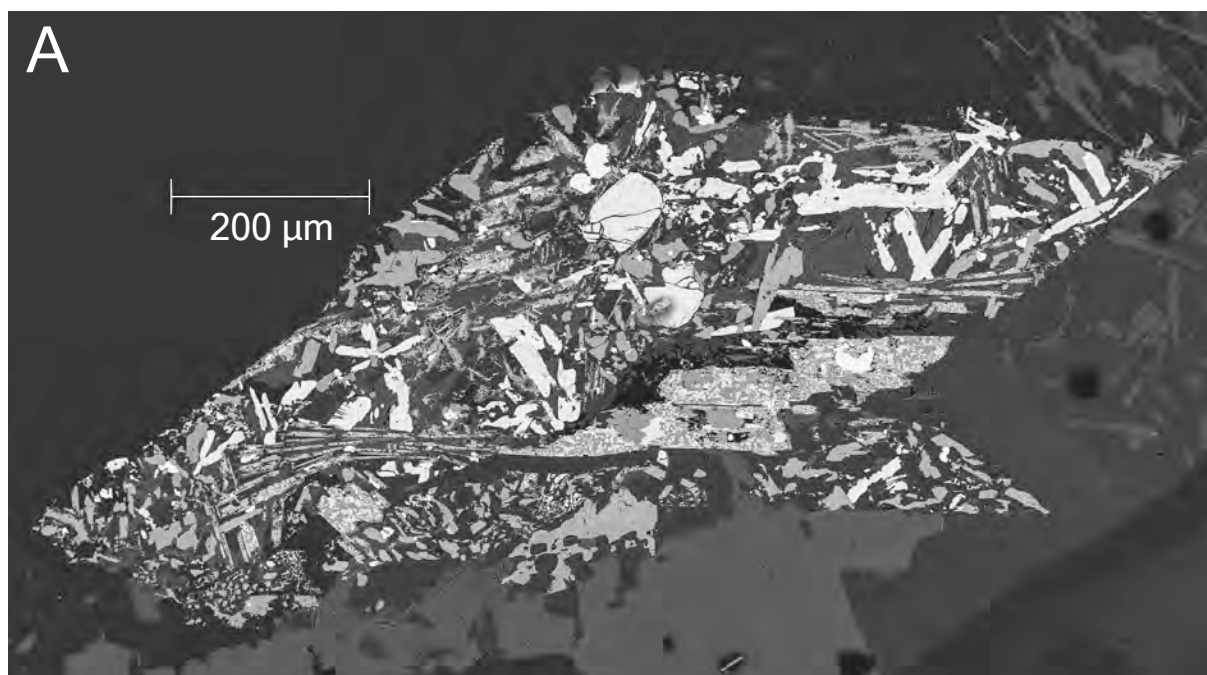


Figure 8. Replacement of titanite (3R) in the Notch Peak pluton. (A) Grain NP-005-6 has been completely replaced by secondary ilmenite, brookite, magnetite, biotite, monazite, xenotime, Nb-Ti oxides, Ca-REE-fluorides, and quartz, but retains the original shape of the crystal. (B) Grain NP-002-5 has only some areas replaced. Unzoned (1U), oscillatory (1O), and bright sectors (1S) are also present.

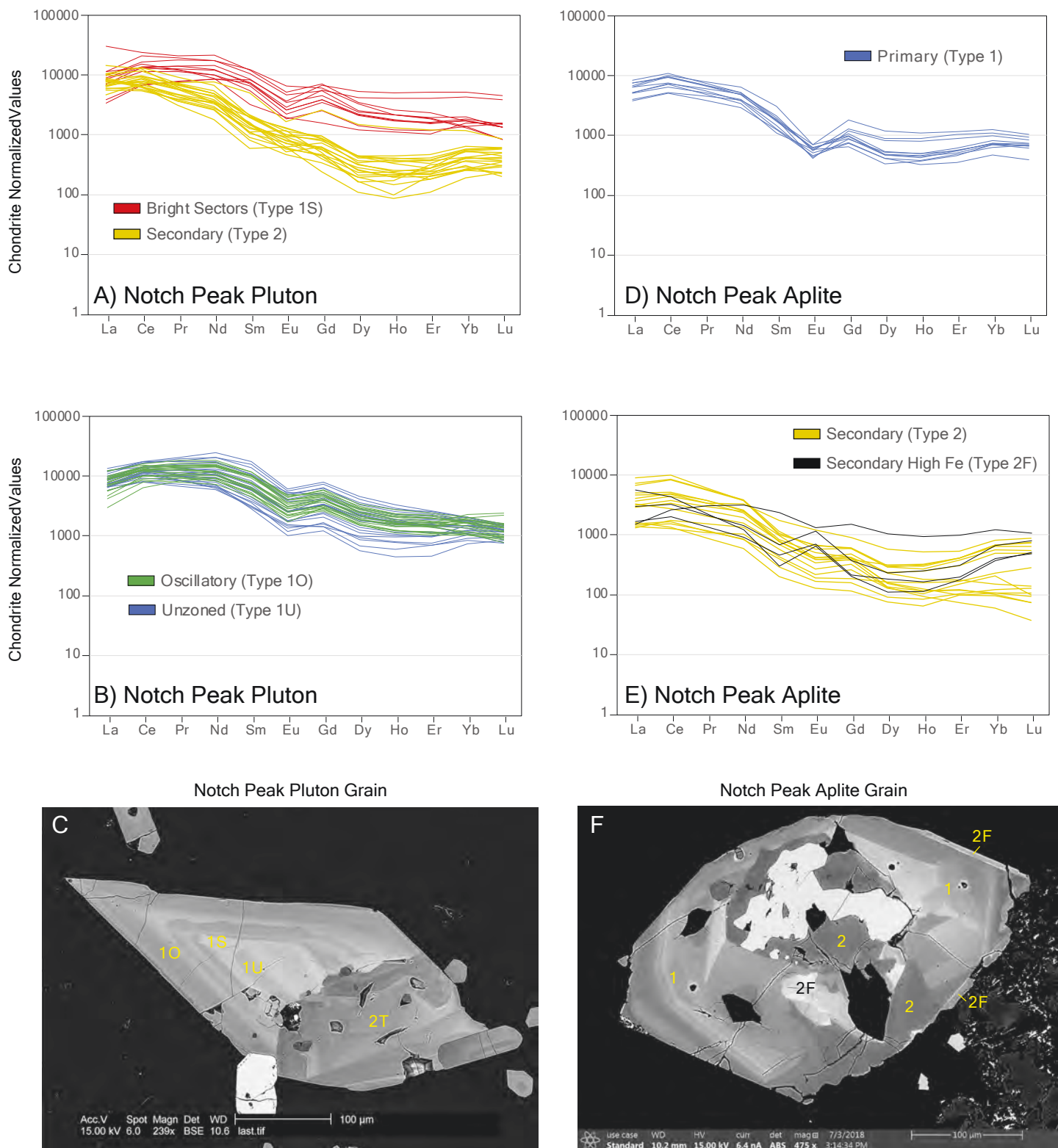


Figure 9. Titanite from the Notch Peak pluton. (A & B) Chondrite-normalized REE patterns for different textural types of titanite in the granite. (C) BSE image of titanite grain in sample NP-6. (D & E) REE patterns from titanite in the aplite. (F) BSE image of titanite from aplite sample NP-18-2a. Note the secondary overgrowth of high-Fe titanite (type 2F) on the aplite grain and a patch of the same in the interior that is probably an artifact of the cut through the grain. Other types shown are: unzoned (1U), oscillatory (1O), bright sectors (1S), and replacement (2T).

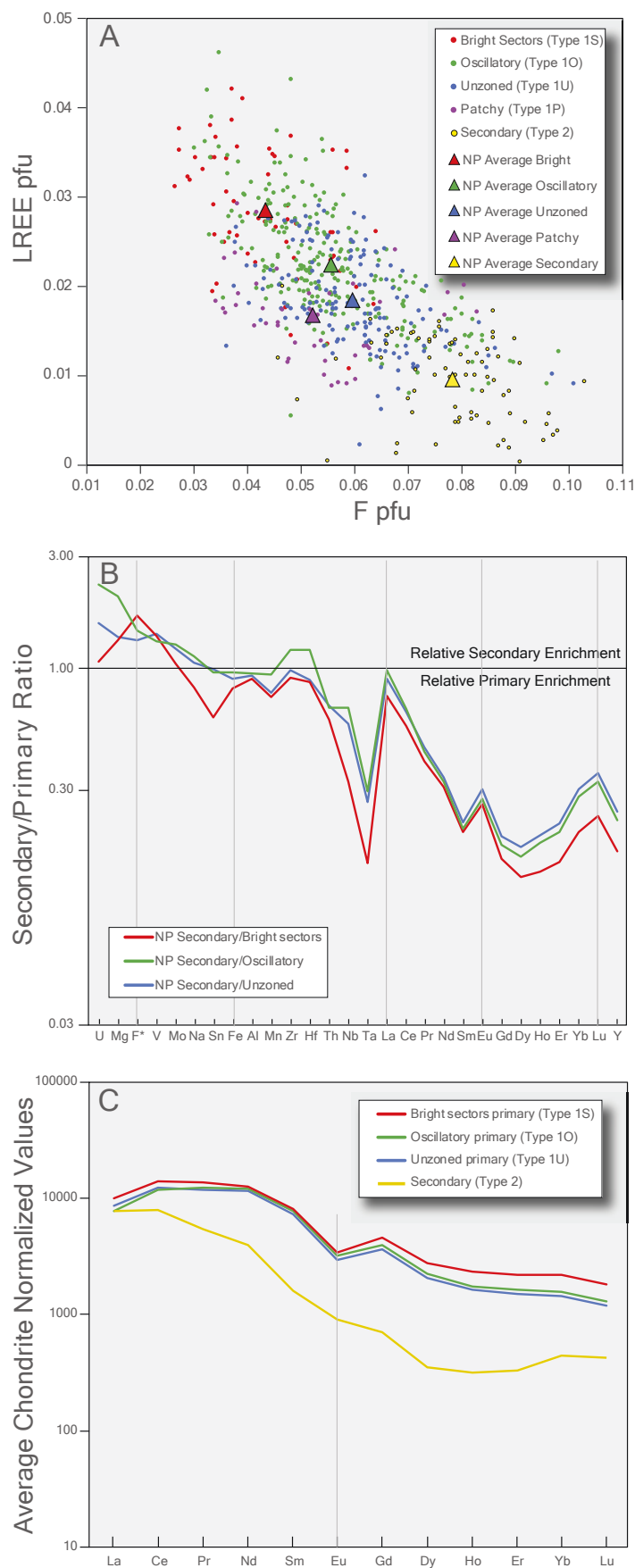


Figure 10. Composition of titanite from the Notch Peak pluton. A) F vs LREE (La+Ce+Sm+Nd), both from EMPA. Dots are individual analyses and larger triangles are averages for each textural type. B) The composition of average secondary titanite divided by average primary titanite (LA-ICPMS data except for F, Fe, and Al which is from EMPA). C) REE patterns for different titanite zones accentuating the depletion of REE in secondary titanite (all types of secondary combined).

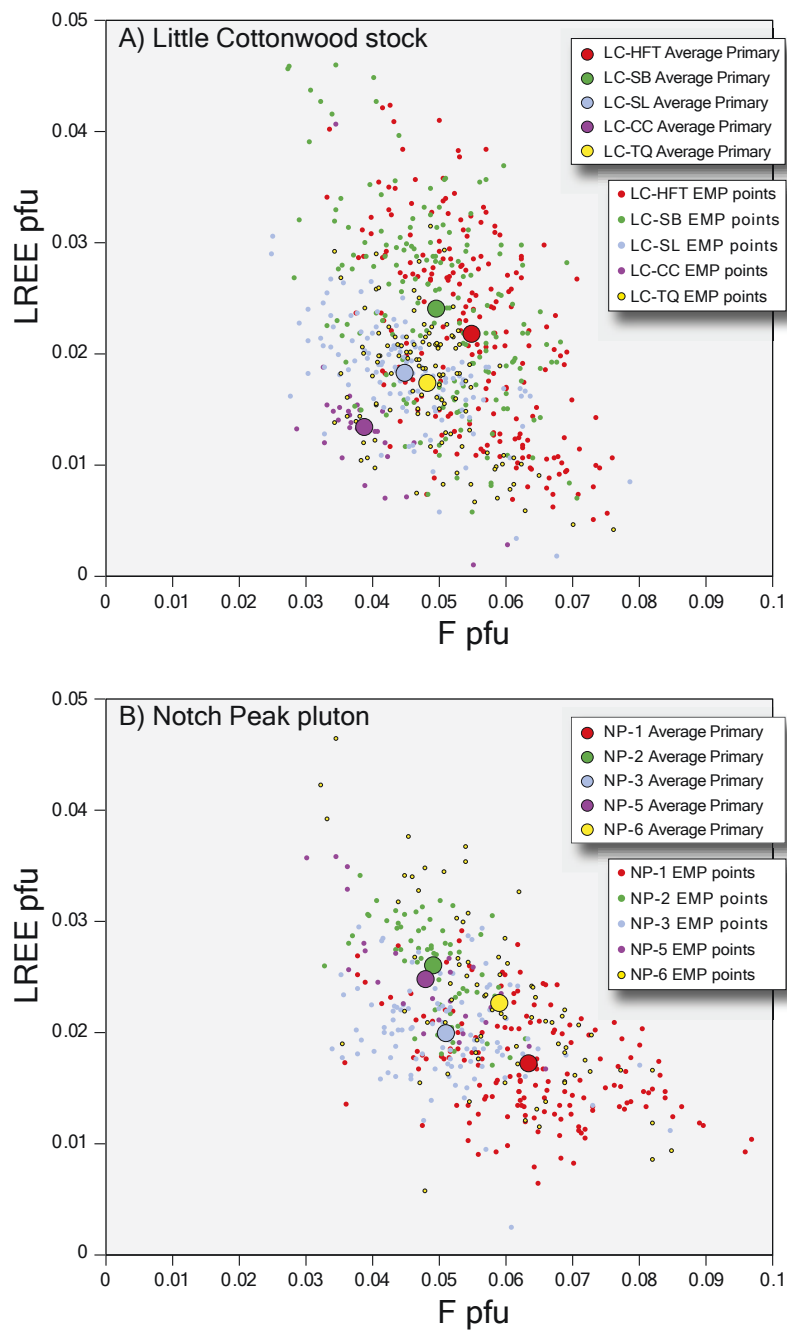


Figure 11. F versus LREE (by EMPA) in (A) Little Cottonwood stock and (B) Notch Peak pluton. According to statistical t-tests suggest the means are significantly different with the exception of LC-SL and LC-TQ and NP-2 and NP-5.

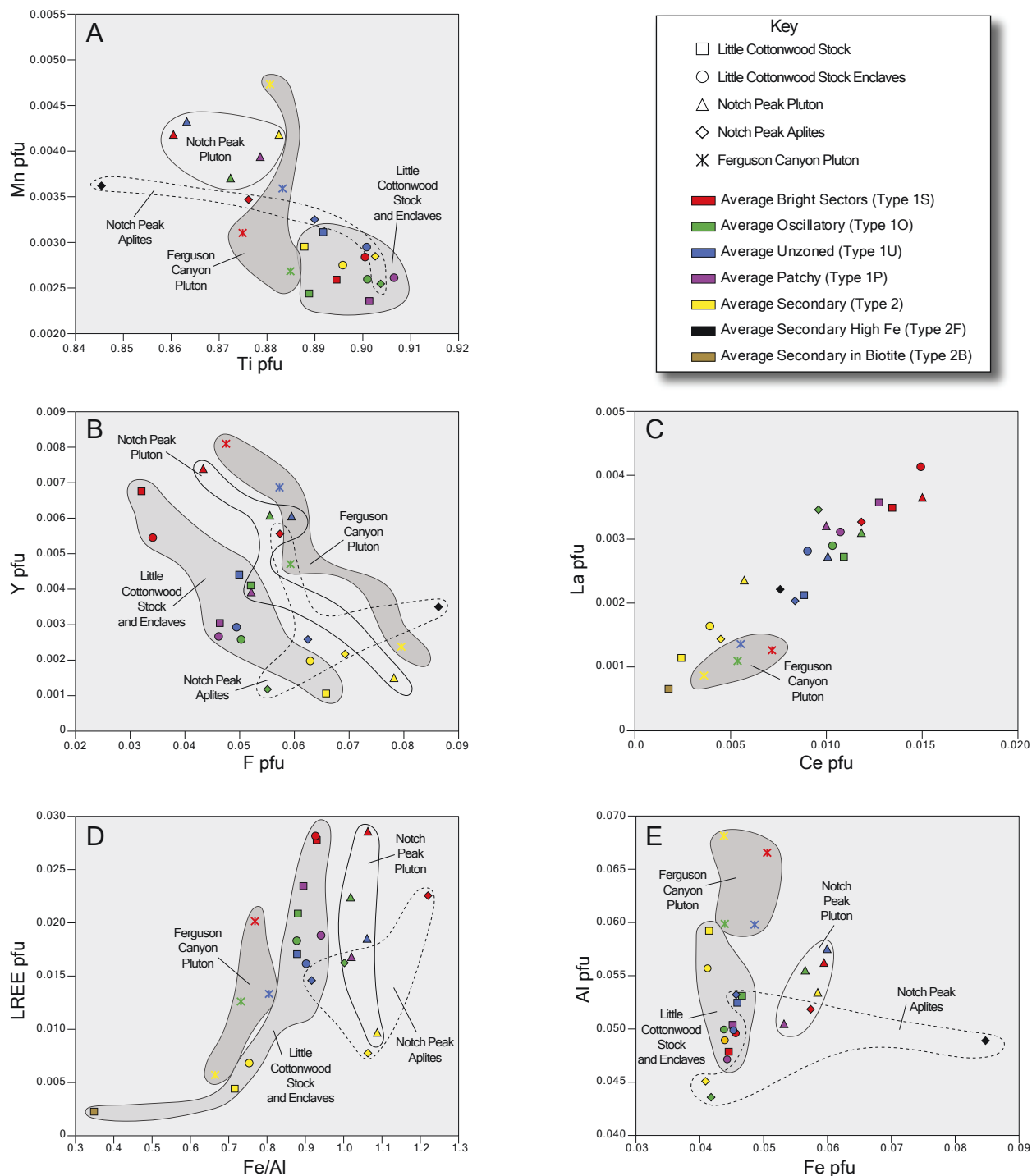


Figure 12. Average compositions (by EMPA) of titanite in the different units studied. (A) Mn vs. Ti, (B) Y vs. F, (C) La vs. Ce, (D) LREE vs. Fe/Al ratio, and (E) Al vs. Fe. On (D), the high-Fe titanite type (2F) from the aplites is not plotted because the Fe/Al ratio is twice as high (>2.0) as other Notch Peak types. Likewise, type 2B (formed by biotite replacement) is not plotted on (A), (B), and (E) because of its high F and Al and low Ti concentrations. Typical secondary titanite in the Little Cottonwood stock averages 0.07 F pfu, while type 2B averages 0.19 F pfu. Ti concentrations are low in type 2B (~ 0.75 pfu) because of very high Al (~ 0.20 pfu).

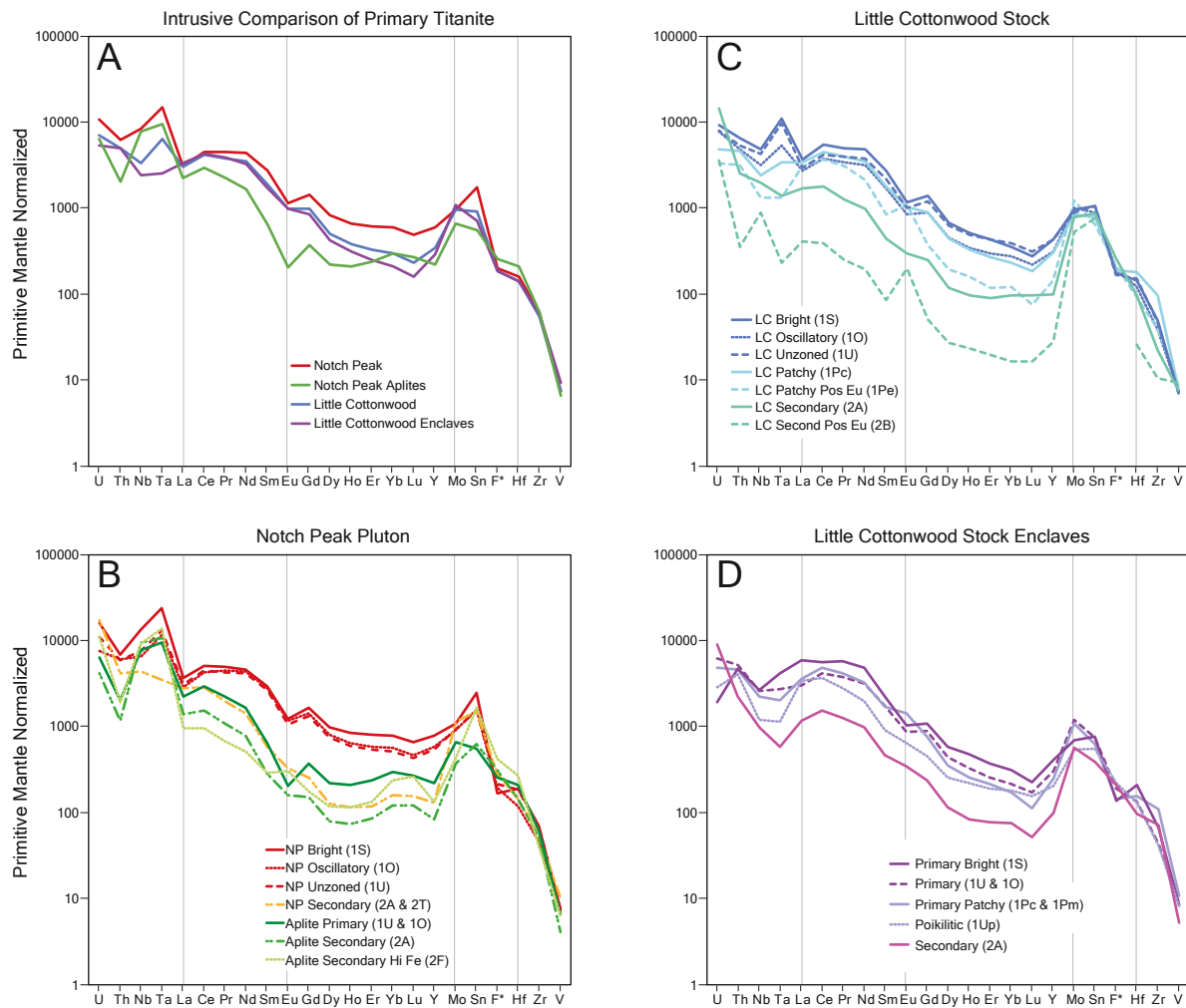


Figure 13. Primitive mantle normalized plots of average titanite compositions (LA-ICP-MS analyses except for F by EMPA). (A) Primary titanites from Notch Peak have higher concentrations of most plotted elements than their counterparts from Little Cottonwood stock, but titanite from Notch Peak aplites has distinctly lower concentrations of REE. Comparison of primary and secondary titanite: (B) Notch Peak; (C) Little Cottonwood stock; and (D) Little Cottonwood enclaves (D). Compared to primary titanite, secondary titanite is generally depleted in all these elements, except U and F.

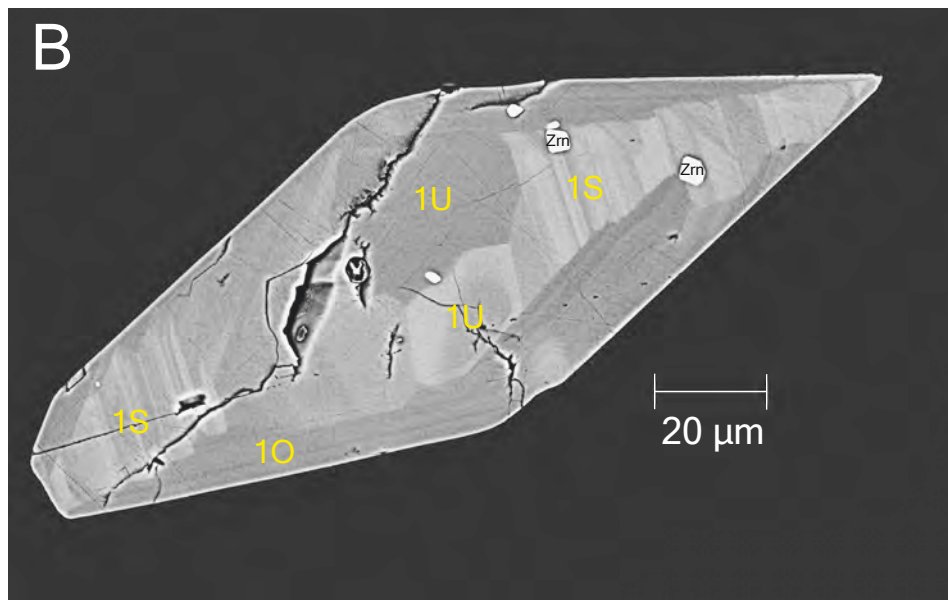
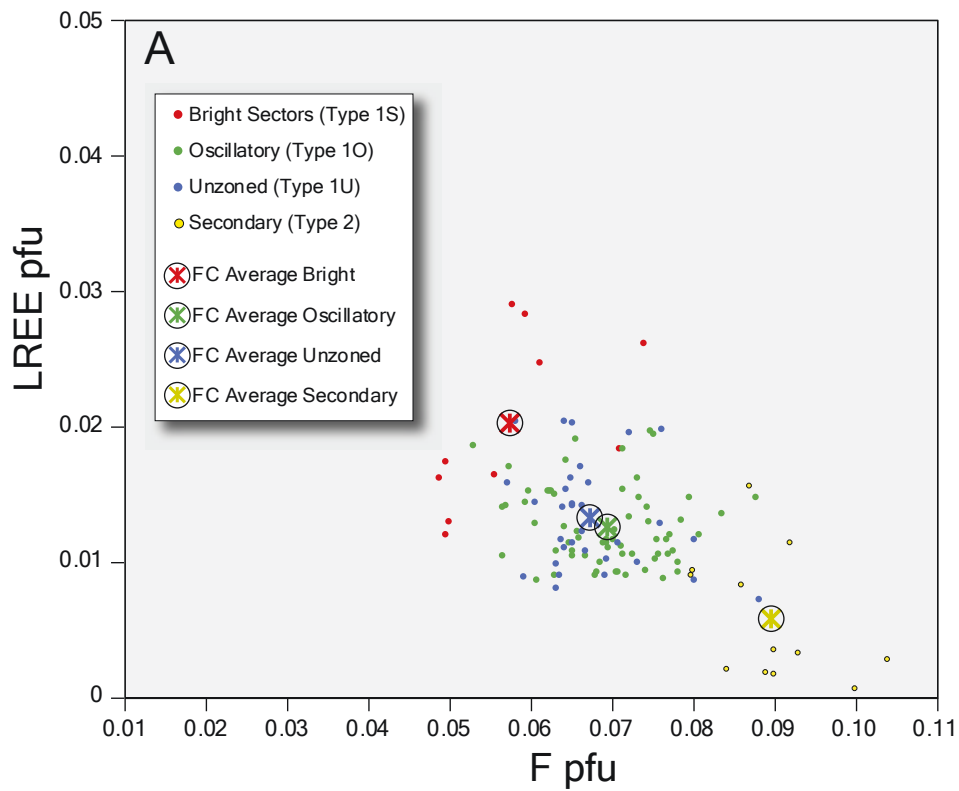


Figure 14. Titanite from the Ferguson Canyon intrusion. (A) F vs. LREE (La+Ce+Sm+Nd via EMPA). Dots are individual analyses and larger symbols are averages for each type. Secondary titanite is distinctly depleted in LREE and enriched in F. (B) BSE image of grain FC-4 showing unzoned (1U), oscillatory (1O), and bright sector (1S) types and bright zircon inclusions (Zrn).

Little Cottonwood Stock

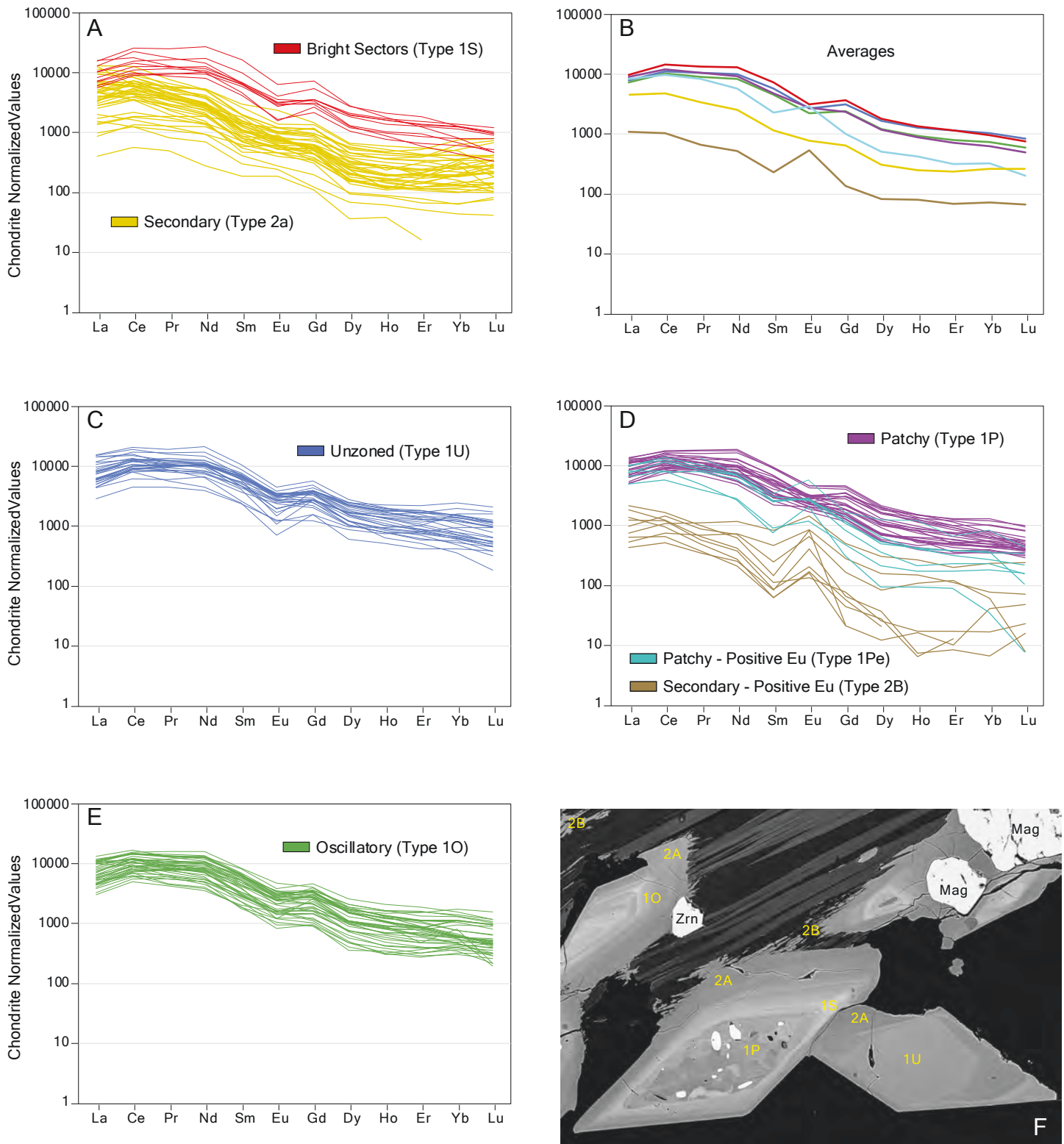


Figure 15. Titanite from the Little Cottonwood stock. (A-E) Chondrite-normalized REE plots for different types of titanite in Little Cottonwood stock. Bright sectors (1S), unzoned (1U), oscillatory (1O), and patchy core (1Pc) types have similar REE patterns, although the patchy cores tend to have smaller Eu anomalies. Secondary titanite grains have lower REE contents and lack Eu anomalies, except for type 2B which has strong positive Eu anomalies. Several analyses in patchy zones also have strong positive Eu anomalies (1Pe) and may be evidence of for a secondary origin. (F) BSE image of a cluster of titanite grains with different types labeled as well as magnetite (Mag) and zircon (Zrn) grains. Photo is about 400 μ wide.

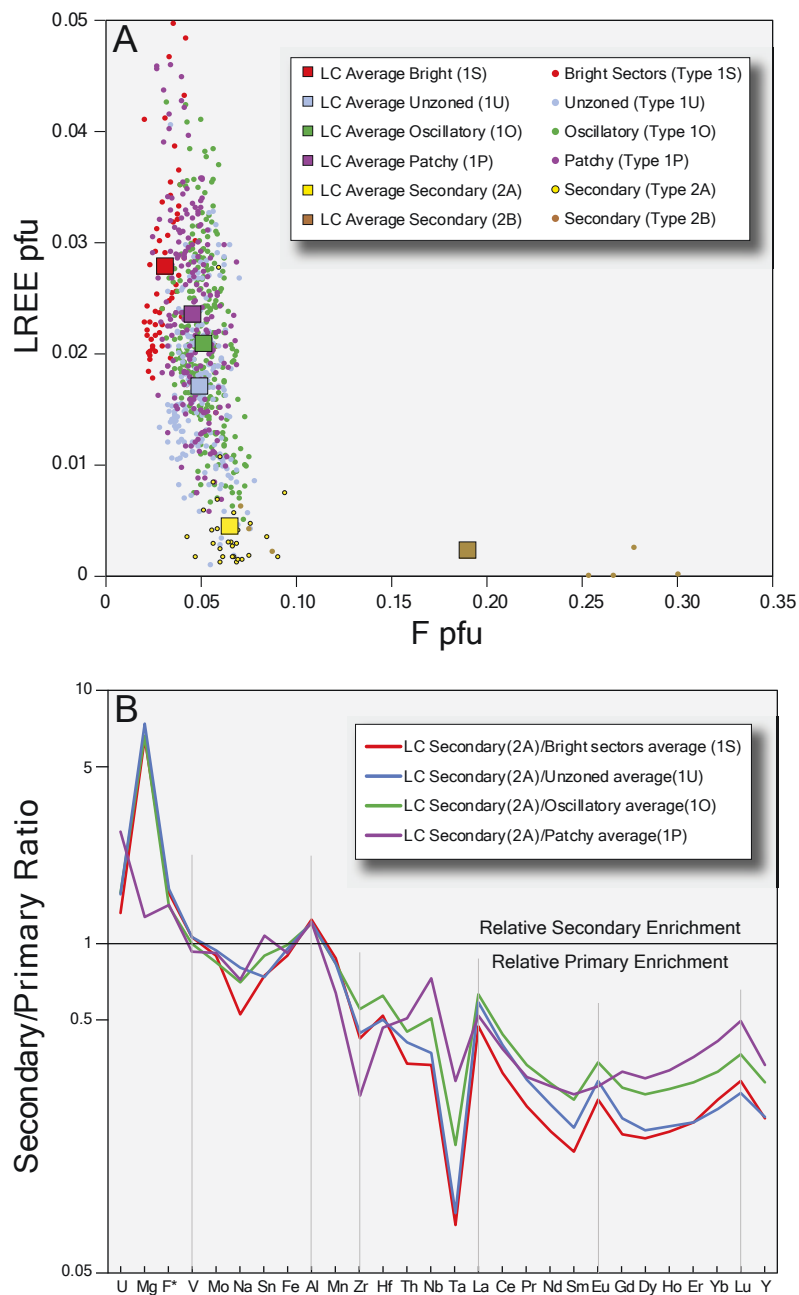


Figure 16. Composition of titanite from the Little Cottonwood stock. (A) F vs LREE (electron microprobe data). Both types of secondary titanite (2T and 2B) are LREE-poor, but type 2B is very F-rich. (B) Ratio of average secondary to primary titanite. Secondary titanite (2A) is enriched in U, Mg, F, and Al and has low middle REE (Nd to Er) and anomalous Eu compared to primary titanite.

Little Cottonwood Stock Enclaves

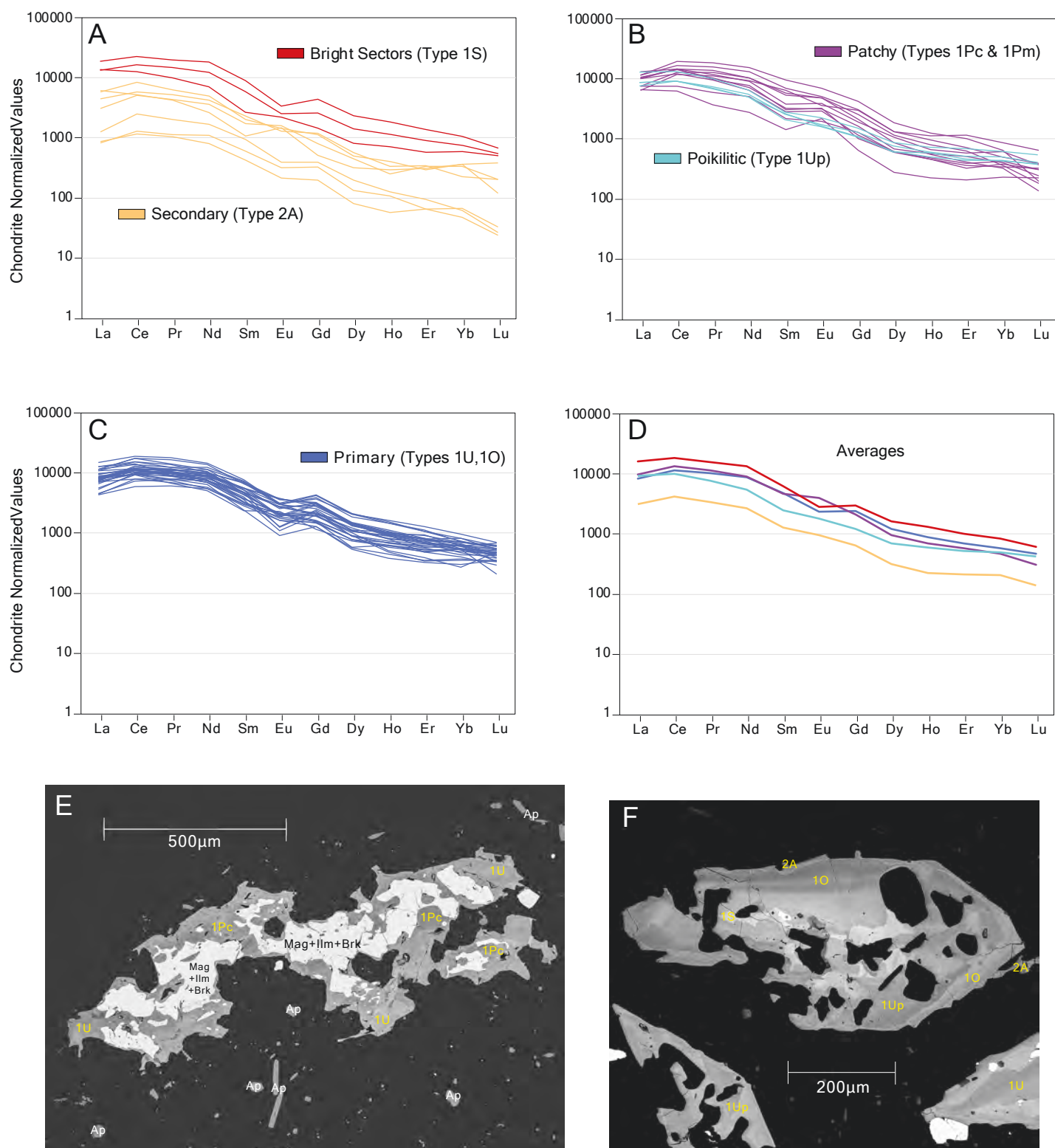


Figure 17. Titanite in mafic enclaves from the Little Cottonwood stock. (A-C) Chondrite-normalized REE diagrams for the different types of titanite. (D) Average chondrite normalized REE diagram for the different types. (E) Large irregular mass of patchy titanite (LC-SB-18-5-1) rimming grains of magnetite and resorbed ilmenite showing the poikilitic nature of some of the titanite in the enclaves, perhaps representing an early stage of resorption of ilmenite and its replacement by titanite; (F) LC-HFT-18-6-3, a poikilitic group of grains with titanite surrounding earlier formed silicates.

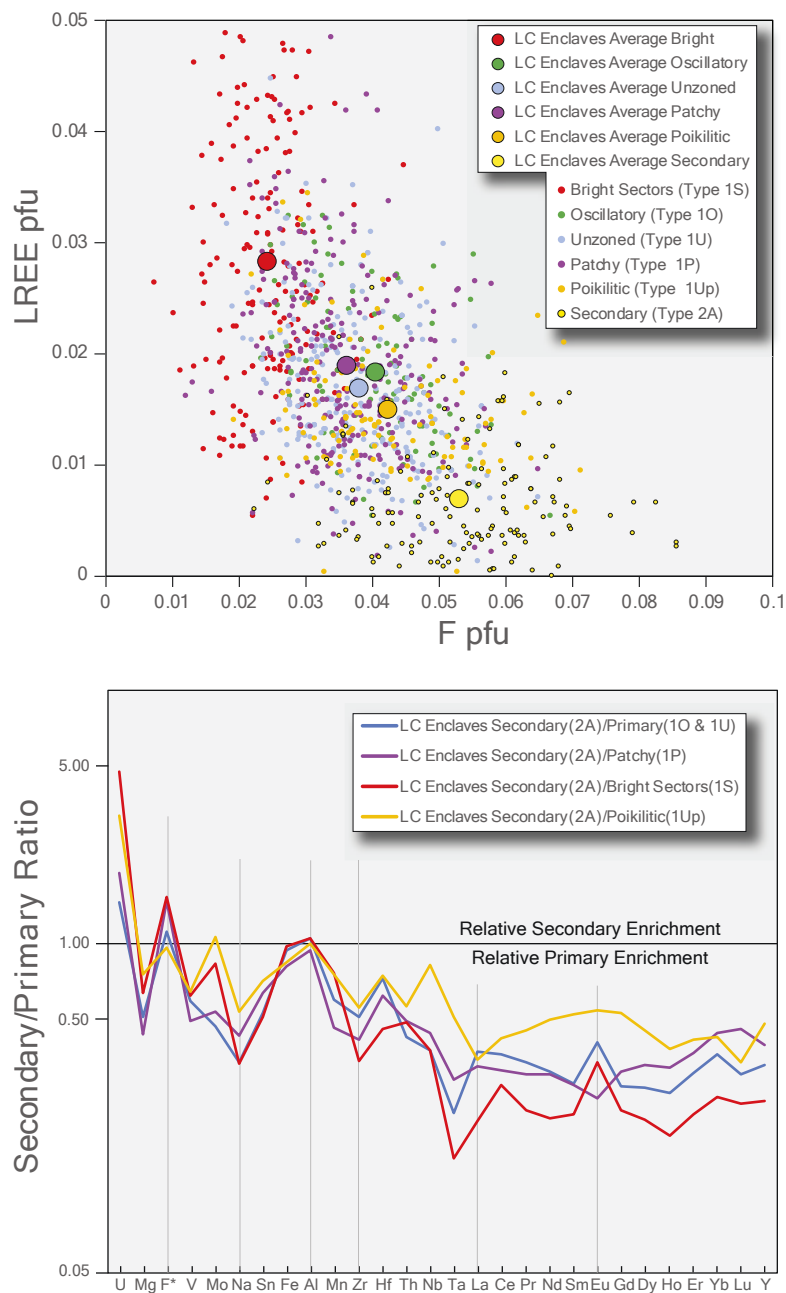


Figure 18. Titanite in mafic enclaves from the Little Cottonwood stock. (A) F vs. LREE for titanite in enclaves. (B) Ratio of the composition of average secondary titanite to primary titanite in the mafic enclaves (LA-ICPMS data). Secondary titanite (2A) is enriched in U and F and has anomalous Eu compared to primary titanite.

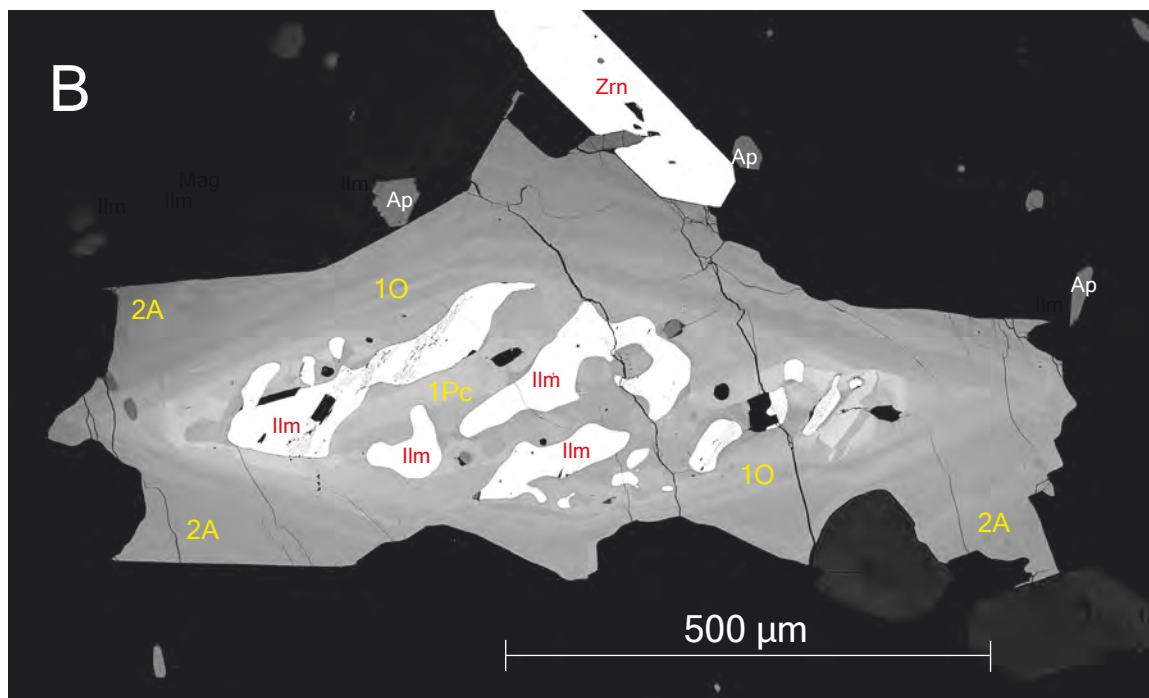
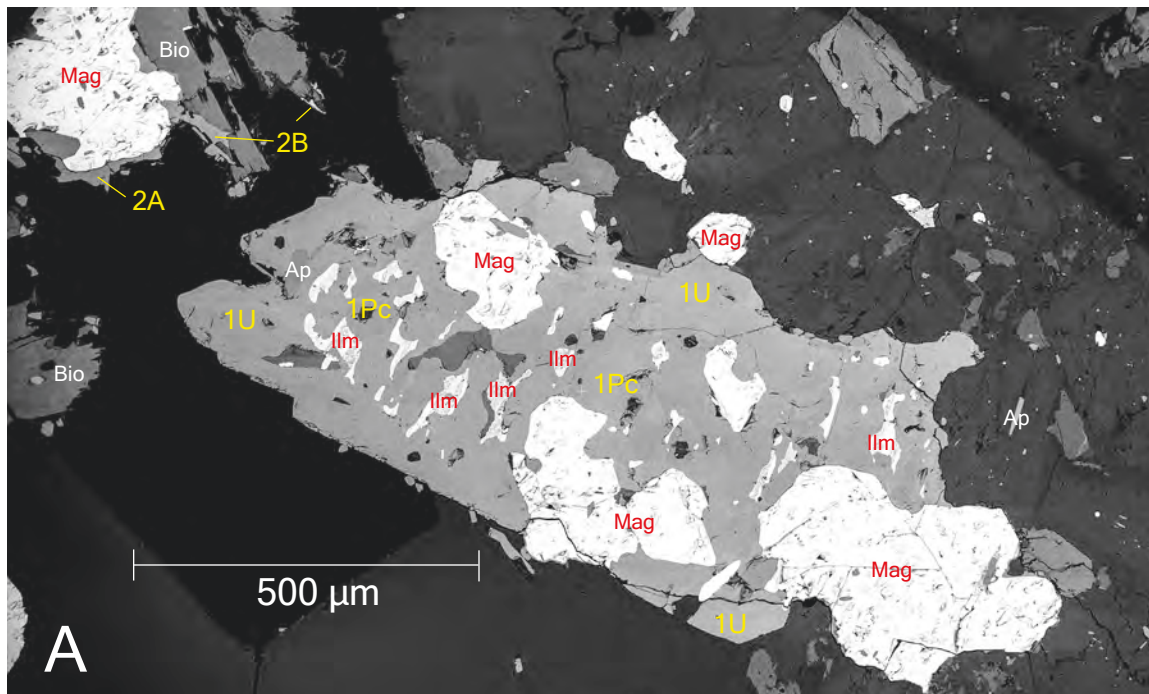


Figure 19. Common titanite textures from the Little Cottonwood stock enclaves in BSE images. (A) Large anhedral mass of titanite (SB-18-5-12) with a patchy core (1Pc) and large magnetite (Mag) grains on the margin. Secondary titanite (2A) formed on the magnetite grain to the left and in altered biotite (2B). (B) Large euhedral titanite grain (HTF-18-1-1) with a patchy core (1Pc) and oscillatory rim (1O) was overgrown by secondary titanite (2A). Resorbed ilmenites (Ilm) in both grains are now composed of intergrown ilmenite + magnetite + brookite.

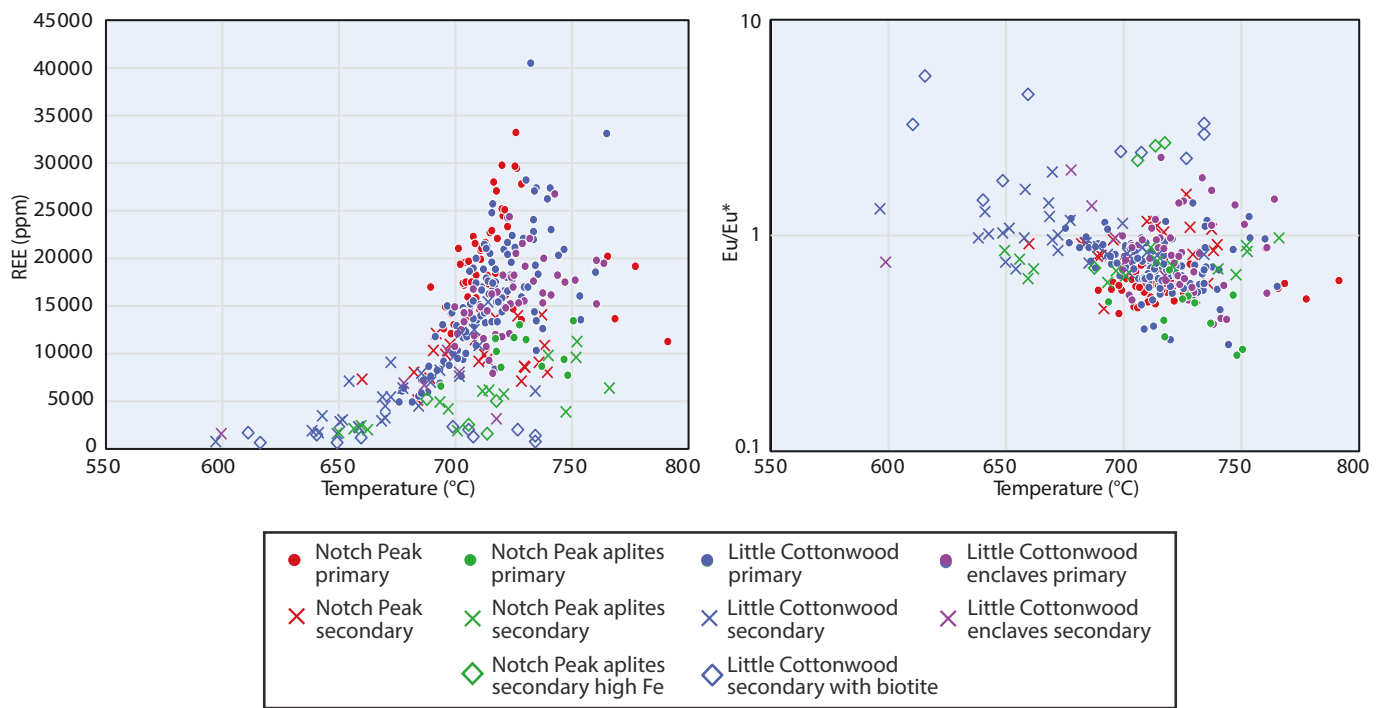


Figure 20. Zr-in-titanite temperatures. Temperature vs. (A) total REE and (B) Eu/Eu*. Compared to primary magmatic titanite (circles), secondary titanite (x) in the Little Cottonwood stock tends to yield lower calculated T (700°C) and positive Eu anomalies ($\text{Eu}/\text{Eu}^* > 1$). Eu was not as mobile during precipitation of secondary titanite in the Notch Peak intrusion based on the overlap of Eu/Eu* for the two types. In the Little Cottonwood stock, secondary titanite associated or intergrown with biotite (type 2B) has the highest Eu/Eu*, while at Notch Peak the high Fe zones in titanite from the aplites have the highest Eu/Eu*. Zr-in-titanite temperatures were calculated using 0.75 as the a_{TiO_2} .

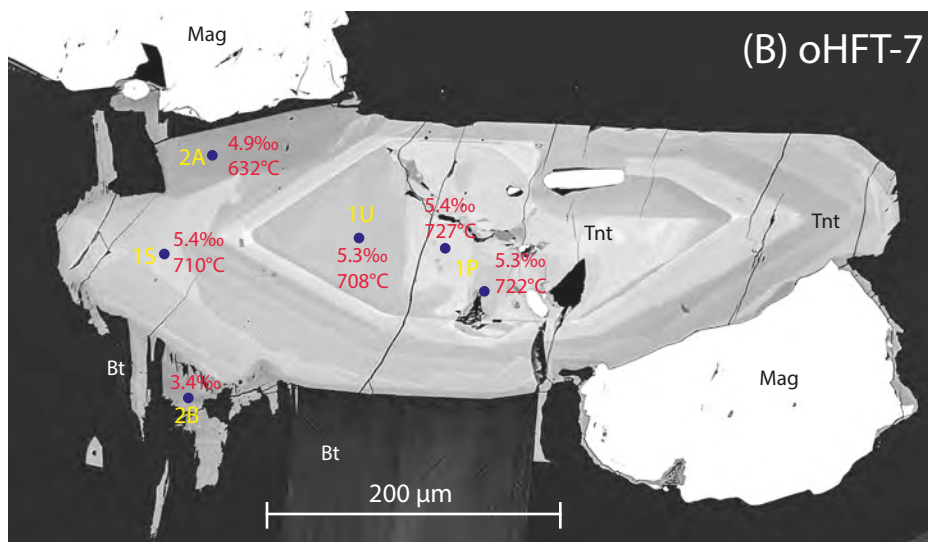
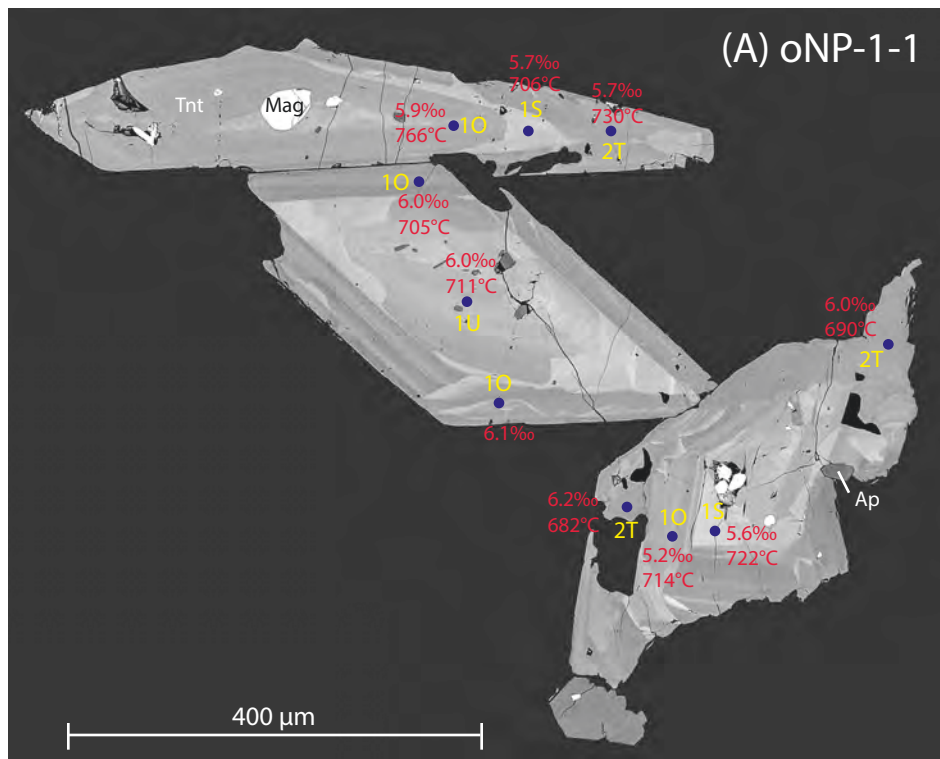


Figure 21. Spot maps of two grains (oNP-1 and oHFT-7) showing $\delta^{18}\text{O}$ and Zr-in-titanite temperatures (except for the 2B zone on HFT-7 that was too small to analyze by LA-ICP-MS). Primary (1S, 1U, and 1O) and secondary types (2A) have similar $\delta^{18}\text{O}$ values, with 2A slightly lower. Titanite associated with biotite (2B) is lower still (2.3‰) suggesting interaction with meteoric water with low $\delta^{18}\text{O}$.

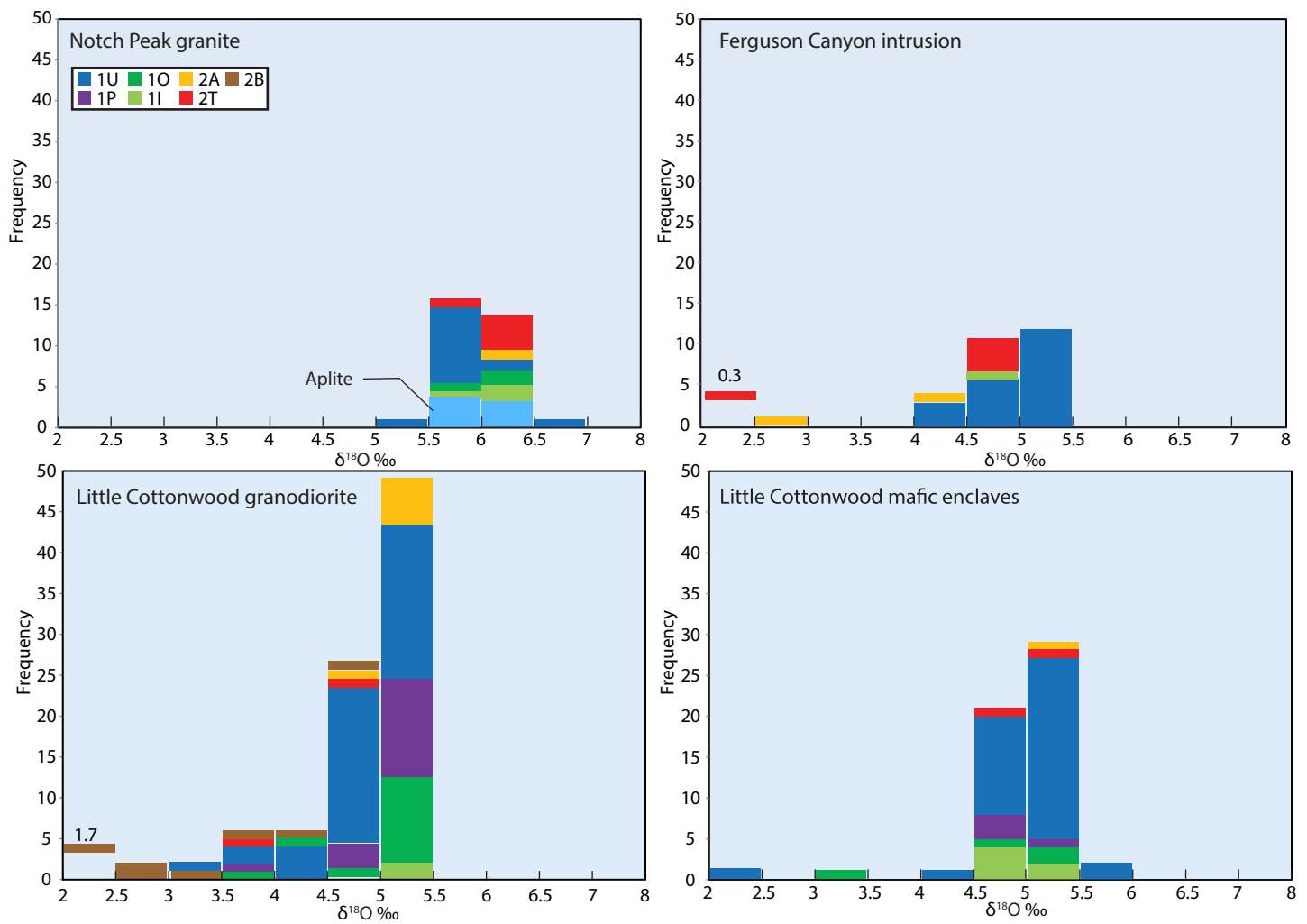


Figure 22. Histograms of $\delta^{18}\text{O}$ values in titanite collected using SIMS. $\delta^{18}\text{O}$ values for primary titanite from the Notch Peak pluton are typically higher than for titanite from the Little Cottonwood stock (average 6.0‰ vs. 4.9‰) reflecting the magmatic compositions. $\delta^{18}\text{O}$ of hydrothermal titanite (2A) in the Notch Peak pluton overlaps with magmatic titanite. $\delta^{18}\text{O}$ of hydrothermal titanite (2A, 2B, and 2T) in the Ferguson Canyon and Little Cottonwood stocks extends to lower values than magmatic titanite.

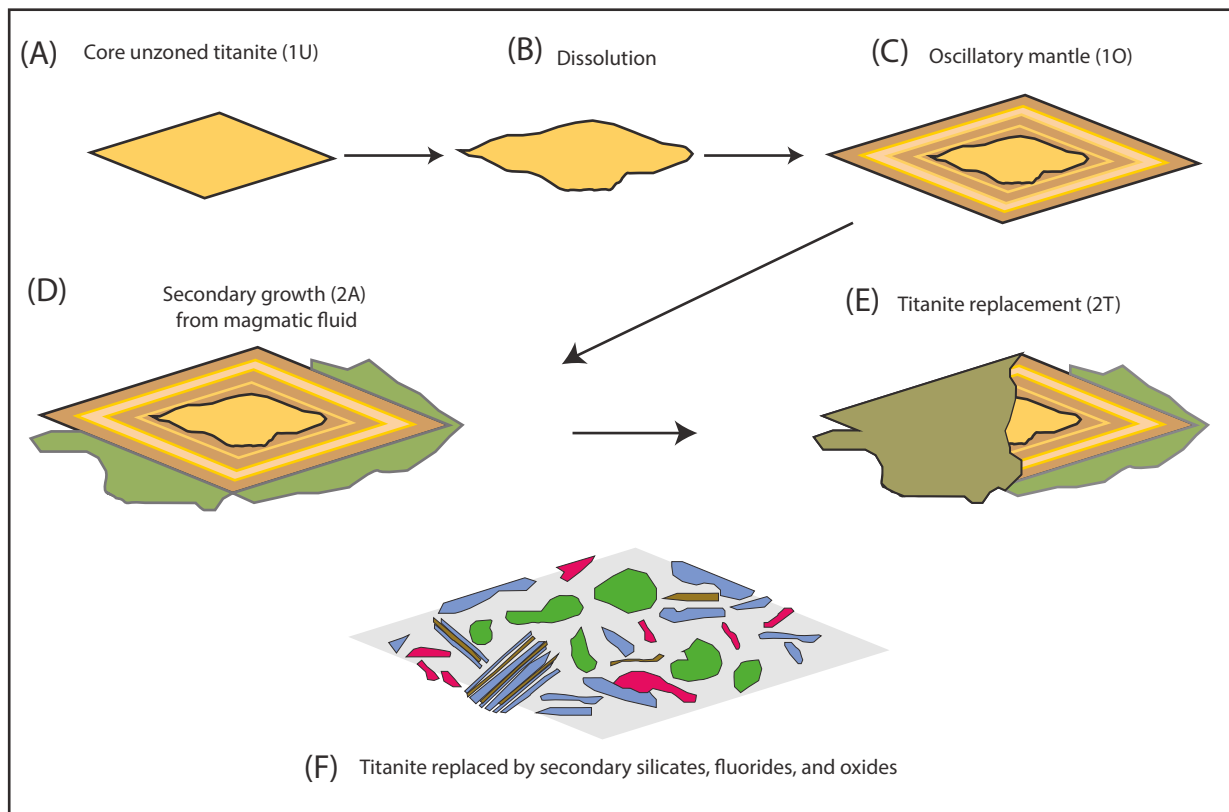


Figure 23. Crystallization of titanite in the Notch Peak granite. (A) Unzoned titanite (1U) crystallizes from granitic magma. (B) Sporadic dissolution events resorb part of this grain. (C) New growth of magmatic titanite mantles the unzoned core, usually with oscillations (1O) linked to sector zones (1S). (D) At a later stage, secondary titanite (2A) crystallizes from exsolved magmatic fluid to form BSE dark (REE-Y-poor, F-rich) anhedral overgrowths. (E) Some grains are partially replaced by BSE-dark secondary titanite (2T). (F) Locally, titanite is completely replaced by secondary minerals (3R), including ilmenite (blue), magnetite (green), biotite (brown) and a TiO_2 phase (red), during reaction with oxidized fluid.

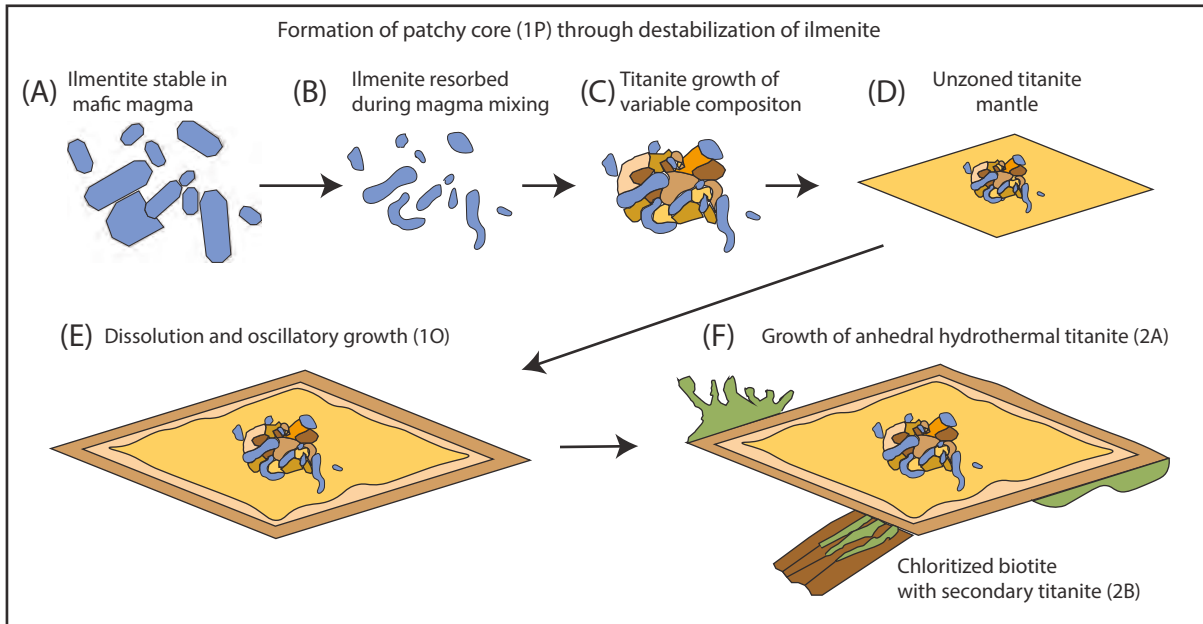


Figure 24. A typical crystallization path for titanite in the Little Cottonwood stock. (A) Ilmenite (blue) grows in low fO_2 , monzondioritic magma. (B) Ilmenite is resorbed when this magma mixes with higher fO_2 calc-alkaline felsic magma. (C) Patchy titanite (1P) grows during the reaction of ilmenite with the felsic magma and preserves partially resorbed ilmenite. (D) After mixing, unzoned titanite (1U) mantles the core. (E) Oscillatory growth (1O) ensues to form the rim of the grain. Growth and dissolution alternate. (F) Secondary titanite forms as hydrothermal fluid forms BSE-dark anhedral overgrowths (2A) or F-rich REE-poor blade-like anhedral overgrowths (2B) where biotite converts to chlorite.

Table 2. Composition of selected titanite grains from the Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock in atoms per formula unit (pfu)

Grain	Texture	Si (pfu)	Al (pfu)	Ti (pfu)	Fe (pfu)	Ca (pfu)	Mn (pfu)	Nb (pfu)	Tot REE (pfu)	F (pfu)
<i>Notch Peak</i>										
NP-2-1j	1S	0.989	0.064	0.817	0.0650	0.965	0.0064	0.0572	0.0228	0.041
NP-3-2m	1Pc	0.991	0.048	0.893	0.0601	0.971	0.0035	0.0097	0.0175	0.046
NP-2-2d	1O	0.995	0.054	0.873	0.0558	0.975	0.0022	0.0141	0.0234	0.053
NP-5-01a	1O	0.993	0.057	0.874	0.0544	0.979	0.0036	0.0137	0.0187	0.064
oNP-6-3-e	2T	0.986	0.058	0.884	0.0576	1.004	0.0040	0.0004	0.0058	0.089
NP-6-1m	2T	1.022	0.054	0.872	0.0531	0.987	0.0028	0.0014	0.0034	0.097
NP-18-2a-015-e	2F	0.098	0.060	0.826	0.1006	1.028	0.0022		0.0078	0.122
<i>Ferguson Canyon</i>										
FC-1-af	1S	0.996	0.058	0.877	0.0540	0.964	0.0020	0.0080	0.0280	0.049
FC-2-i	1O	0.992	0.059	0.894	0.0410	0.992	0.0030	0.0055	0.0100	0.058
oFC-9a	1A	0.993	0.086	0.863	0.0390	0.994	0.0040	0.0120	0.0030	0.083
<i>Little Cottonwood</i>										
LC-HFT-4-x	1Pc	0.996	0.064	0.872	0.0581	0.969	0.0008	0.0047	0.0287	0.062
LC-TQ-3-ab	1S	0.982	0.050	0.884	0.0480	0.966	0.0030	0.0270	0.0310	0.027
LC-TQ-4-b	1O	0.994	0.050	0.889	0.0431	0.981	0.0030	0.0099	0.0216	0.052
LC-SB-1-q	1Pc	0.998	0.050	0.899	0.0460	0.960	0.0010	0.0050	0.0330	0.034
LC-SB-4-ae	2A	1.004	0.054	0.895	0.0470	0.991	0.0030	0.0020	0.0034	0.067
oLC-HFT-6d	2B	0.996	0.310	0.647	0.0310	1.010	0.0010	0.0000	0.0020	0.278
<i>Little Cottonwood Mafic Enclaves</i>										
LC-HFT-18-1-11-h	1U	0.996	0.046	0.911	0.0433	0.973	0.0024	0.0056	0.0199	0.034
LC-SB-18-4-3-h	1Pc	0.994	0.046	0.907	0.0380	0.990	0.0020	0.0060	0.0140	0.051
LC-SB-18-4-6-j	1S	0.958	0.068	0.860	0.1290	0.917	0.0060	0.0070	0.0420	0.039
LC-SB-18-4-3-n	1O	0.991	0.046	0.895	0.0512	0.991	0.0034	0.0050	0.0164	0.058
LC-HFT-18-2-11-ad	2A	0.992	0.051	0.904	0.0480	0.990	0.0026	0.0018	0.0090	0.071

*Recalculated based on 3 cations

Table 1. Textural classification of titanite

Symbol	Name	Characteristics	Figure
1U	Unzoned	Lacks systematic zoning	2B, 5A, and 6B
1O	Oscillatory	Oscillatory zones commonly around 1C,1N, or 1Pc	2A, 3, 5A, 6, 7, 8,10, 13, 14, and 16
1S	Sector	BSE-bright sector zones formed in conjunction with 1O enriched in HFSE	4, 5, 9c, 14b, and 21
1Pc	Patchy core	Mottled core texture with BSE-dark and bright patches, always includes resorbed ilmenite	3, 6A, 13
1Pm	Patchy mantle	Similar to patchy core, but mantles either 1C,1U, or 1Pc	5 and 14
2A	Anhedral	Zoneless titanite, usually BSE-dark, which extends between and into surrounding minerals	5B, 6A, and 16
2B	Biotite replacement	BSE-dark, anhedral titanite that replaces chloritized biotite	6B, 7A, and 16B
2F	Fe-rich secondary	BSE-bright late overgrowth	9c
2T	Titanite replacement	Dark titanite with irregular zoning that truncates existing titanite zones	8 and 10
3R	Replaced	Complete replacement of titanite by mixture of silicates, oxides, fluorides, and carbonates	9c
See text for explanations of symbols in Column 1			

Table 2. Composition of selected titanite grains from the Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock in atoms per formula unit (pfu)

Grain	Texture	Si (pfu)	Al (pfu)	Ti (pfu)	Fe (pfu)	Ca (pfu)	Mn (pfu)	Nb (pfu)	Tot REE (pfu)	F (pfu)
<i>Notch Peak</i>										
NP-2-1j	1S	0.989	0.064	0.817	0.0650	0.965	0.0064	0.0572	0.0228	0.041
NP-3-2m	1Pc	0.991	0.048	0.893	0.0601	0.971	0.0035	0.0097	0.0175	0.046
NP-2-2d	1O	0.995	0.054	0.873	0.0558	0.975	0.0022	0.0141	0.0234	0.053
NP-5-01a	1O	0.993	0.057	0.874	0.0544	0.979	0.0036	0.0137	0.0187	0.064
oNP-6-3-e	2T	0.986	0.058	0.884	0.0576	1.004	0.0040	0.0004	0.0058	0.089
NP-6-1m	2T	1.022	0.054	0.872	0.0531	0.987	0.0028	0.0014	0.0034	0.097
NP-18-2a-015-e	2F	0.098	0.060	0.826	0.1006	1.028	0.0022		0.0078	0.122
<i>Ferguson Canyon</i>										
FC-1-af	1S	0.996	0.058	0.877	0.0540	0.964	0.0020	0.0080	0.0280	0.049
FC-2-i	1O	0.992	0.059	0.894	0.0410	0.992	0.0030	0.0055	0.0100	0.058
oFC-9a	1A	0.993	0.086	0.863	0.0390	0.994	0.0040	0.0120	0.0030	0.083
<i>Little Cottonwood</i>										
LC-HFT-4-x	1Pc	0.996	0.064	0.872	0.0581	0.969	0.0008	0.0047	0.0287	0.062
LC-TQ-3-ab	1S	0.982	0.050	0.884	0.0480	0.966	0.0030	0.0270	0.0310	0.027
LC-TQ-4-b	1O	0.994	0.050	0.889	0.0431	0.981	0.0030	0.0099	0.0216	0.052
LC-SB-1-q	1Pc	0.998	0.050	0.899	0.0460	0.960	0.0010	0.0050	0.0330	0.034
LC-SB-4-ae	2A	1.004	0.054	0.895	0.0470	0.991	0.0030	0.0020	0.0034	0.067
oLC-HFT-6d	2B	0.996	0.310	0.647	0.0310	1.010	0.0010	0.0000	0.0020	0.278
<i>Little Cottonwood Mafic Enclaves</i>										
LC-HFT-18-1-11-h	1U	0.996	0.046	0.911	0.0433	0.973	0.0024	0.0056	0.0199	0.034
LC-SB-18-4-3-h	1Pc	0.994	0.046	0.907	0.0380	0.990	0.0020	0.0060	0.0140	0.051
LC-SB-18-4-6-j	1S	0.958	0.068	0.860	0.1290	0.917	0.0060	0.0070	0.0420	0.039
LC-SB-18-4-3-n	1O	0.991	0.046	0.895	0.0512	0.991	0.0034	0.0050	0.0164	0.058
LC-HFT-18-2-11-ad	2A	0.992	0.051	0.904	0.0480	0.990	0.0026	0.0018	0.0090	0.071

*Recalculated based on 3 cations

Table 3. Trace element concentrations in selected titanite grains from Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock.

Grain	Textures	V	Y	Zr	Nb	Mo	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Ho	Er	Yb	Lu	Hf	W	Pb	Th	U
Notch Peak																							
nb-176-3a	1U	626	2884	561	3143	32	2104	8923	1442	7552	1598	266	1268	804	137	364	272	31	26	1	12	622	120
oNP-1-2a	1S	334	1970	1490	13600	29	2690	8250	1127	4580	798	105	512	349	66	189	223	38	69	127	24	620	1305
NP-6-1d	1O	674	3372	551	3982	32	2356	8925	1515	7681	1720	261	1050	774	127	357	306	37	31	-	10	621	131
NP-6-9a	2T	1350	646	443	2580	30	1870	5900	655	2270	288	53	169	85	21	53	85	13	26	1	8	293	266
NP-6-4d	2T	801	403	638	4141	115	1428	3535	359	1292	191	53	116	63	11	32	41	6	38	-	11	437	609
Notch Peak Aplite																							
NP-18-2a-6a	1U	570	913	748	4059	19	1225	4055	493	1892	221	25	176	133	28	101	135	18	95	7	7	123	122
NP-18-2a-22d	2T	83	131	157	3279	5	365	1027	107	399	44	9	32	23	5	17	20	3	9	2	18	79	217
NP-18-2a-15e	2F	869	1518	298	9961	20	356	1598	285	1449	345	74	298	254	52	159	197	26	51	6	8	54	105
Little Cottonwood																							
LC-SB-5e	1Pc	566	1582	389	1453	71	1907	7625	1113	5371	979	206	668	395	62	135	107	13	22	-	3	314	88
LC-HFT-3a	1Pc	790	879	524	898	33	2350	8800	1060	3420	468	160	264	147	26	84	72	10	35	-	-	251	72
LC-SL-6c	1S	647	2424	717	4226	31	2510	9727	1565	8011	1490	233	1097	688	118	299	211	24	54	2	7	565	102
LC-TQ1b	1O	640	1916	329	2496	31	1084	4510	742	3605	731	144	548	396	68	182	185	24	27	-	6	384	122
LC-SB-4o	2A	658	231	214	490	56	972	2379	255	940	104	31	77	41	7	24	21	4	21	-	13	211	218
oLC-HFT-6a	2B	696	181	130	710	22	403	1210	108	420	56	36	37	25	4	15	18	3	15	6	3	51	214
Little Cottonwood mafic enclaves																							
LC-HFT-18-2-24f	1U	1120	1180	348	1780	78	1910	7680	1060	4130	840	174	387	268	50	95	101	8	27	-	0	351	86
oLC-HFT-18-6-5a	1Up	722	1165	606	1216	35	3010	8020	935	2970	415	127	299	218	40	111	101	14	53	4	3	545	88
oLC-SB-18-5-3e	2T	819	455	467	729	41	1620	3920	355	1310	220	127	134	71	13	35	39	6	19	6	2	331	84
LC-HFT-18-2-23c	1Pm	880	761	486	1440	87	1850	8170	1230	4920	821	279	438	222	31	69	54	4	29	-	-	281	115
LC-HFT-18-2-13b	2A	790	633	281	1190	29	1400	5190	590	2270	299	82	226	123	23	47	59	3	24	-	4	349	500
Uncertainty		683	94	61	177	12	98	323	34	158	38	7	28	305	4	9	10	16	5	1	2	20	11
Concentrations in ppm																							
- = not detected																							

Table 4. Average composition of titanite from the Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonv

Pluton	Si (pfu)	Al (pfu)	Ti (pfu)
Notch Peak primary	0.994 ± 0.009	0.053 ± 0.009	0.876 ± 0.022
Notch Peak secondary	0.995 ± 0.011	0.050 ± .011	0.887 ± 0.023
Ferguson Canyon primary	1.002 ± 0.006	0.059 ± 0.005	0.888 ± 0.009
Little Cottonwood w patchy cores	0.999 ± 0.008	0.049 ± 0.007	0.903 ± 0.014
Little Cottonwood w/o patchy cores	0.997 ± 0.010	0.052 ± 0.006	0.893 ± 0.012
Little Cottonwood secondary	0.998 ± 0.010	0.057 ± .007	0..886 ± 0.007
Little Cottonwood mafic enclaves	0.992 ± 0.037	0.049 ± 0.008	0.902 ± 0.043
Composition given in atoms per formula unit (pfu)			
*± = 1 standard deviation			

wood stock

Fe (pfu)	Ca (pfu)	Mn (pfu)	Nb (pfu)	Tot REE (pfu)
0.055 ± 0.011	0.979 ± 0.018	0.004 ± 0.002	0.012 ± 0.012	0.020 ± 0.007
0.053 ± 0.014	0.990 ± 0.014	0.003 ± 0.001	0.007 ± 0.008	0.012 ± 0.007
0.043 ± 0.005	0.983 ± 0.007	0.002 ± 0.001	0.005 ± 0.002	0.012 ± 0.002
0.043 ± 0.009	0.973 ± 0.013	0.002 ± 0.001	0.005 ± 0.002	0.022 ± 0.009
0.044 ± 0.007	0.977 ± 0.014	0.003 ± 0.008	0.008 ± 0.005	0.019 ± 0.009
0.044 ± 0.007	0.988 ± 0.012	0.003 ± 0.001	0.007 ± 0.001	0.011 ± 0.006
0.045 ± 0.009	0.983 ± 0.071	0.003 ± 0.001	0.005 ± 0.004	0.017 ± 0.008

F (pfu)

0.057 ± 0.013

0.070 ± 0.017

0.056 ± 0.008

0.046 ± 0.010

0.049 ± 0.011

0.064 ± 0.009

0.050 ± 0.011

Table 5. Representative oxygen isotopic compositions and Zr-in-titanite temperatures for titanite from the Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock

Sample	Texture	$\delta^{18}\text{O}$ (‰ VSMOW)	Temp (°C)
<i>Notch Peak</i>			
oNP-1-1-t4	1U	6.0	709
oNP-1-3b	1U	6.7	711
oNP-1-1-t5	1O	6.0	706
oNP-1-1l	2T	5.7	730
oNP-1-1m	2T	6.2	682
<i>Notch Peak Aplite</i>			
oNP-18-3a-1e	2F	6.1	714
<i>Ferguson Canyon</i>			
oFC-2c	1U	5.2	-
oFC-8e	1O	5.1	-
oFC-1e	2A	4.3	-
<i>Little Cottonwood</i>			
oLC-HFT-1c	1O	4.7	707
oLC-HFT-7e	1S	5.4	710
oLC-SB-5c	1Pc	5.3	736
oLC-SB-1a	1Pc	4.6	760
oLC-HFT-8f	2A	4.6	630
oLC-HFT-7i	2B	2.6	-
<i>Little Cottonwood mafic enclaves</i>			
oLC-HFT-18-6-5d	1U	5.3	708
oLC-SB-18-5-2e	1U	4.8	703
oLC-HFT-18-6-1c	1U	5.6	724
oLC-SB-18-5-5c	1Pc	5.2	714
oLC-HFT-18-6-3g	2A	5.3	678

Table 1. Textural classification of titanite

Symbol	Name	Characteristics	Figure
1U	Unzoned	Lacks systematic zoning	2B, 5A, and 6B
1O	Oscillatory	Oscillatory zones commonly around 1C,1N, or 1Pc	2A, 3, 5A, 6, 7, 8,10, 13, 14, and 16
1S	Sector	BSE-bright sector zones formed in conjunction with 1O enriched in HFSE	4, 5, 9c, 14b, and 21
1Pc	Patchy core	Mottled core texture with BSE-dark and bright patches, always includes resorbed ilmenite	3, 6A, 13
1Pm	Patchy mantle	Similar to patchy core, but mantles either 1C,1U, or 1Pc	5 and 14
2A	Anhedral	Zoneless titanite, usually BSE-dark, which extends between and into surrounding minerals	5B, 6A, and 16
2B	Biotite replacement	BSE-dark, anhedral titanite that replaces chloritized biotite	6B, 7A, and 16B
2F	Fe-rich secondary	BSE-bright late overgrowth	9c
2T	Titanite replacement	Dark titanite with irregular zoning that truncates existing titanite zones	8 and 10
3R	Replaced	Complete replacement of titanite by mixture of silicates, oxides, fluorides, and carbonates	9c

See text for explanations of symbols in Column 1

Table 2. Composition of selected titanite grains from the Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock in atoms per formula unit (pfu)

Grain	Texture	Si (pfu)	Al (pfu)	Ti (pfu)	Fe (pfu)	Ca (pfu)	Mn (pfu)	Nb (pfu)	Tot REE (pfu)	F (pfu)
<i>Notch Peak</i>										
NP-2-1j	1S	0.989	0.064	0.817	0.0650	0.965	0.0064	0.0572	0.0228	0.041
NP-3-2m	1Pc	0.991	0.048	0.893	0.0601	0.971	0.0035	0.0097	0.0175	0.046
NP-2-2d	1O	0.995	0.054	0.873	0.0558	0.975	0.0022	0.0141	0.0234	0.053
NP-5-01a	1O	0.993	0.057	0.874	0.0544	0.979	0.0036	0.0137	0.0187	0.064
oNP-6-3-e	2T	0.986	0.058	0.884	0.0576	1.004	0.0040	0.0004	0.0058	0.089
NP-6-1m	2T	1.022	0.054	0.872	0.0531	0.987	0.0028	0.0014	0.0034	0.097
NP-18-2a-015-e	2F	0.098	0.060	0.826	0.1006	1.028	0.0022		0.0078	0.122
<i>Ferguson Canyon</i>										
FC-1-af	1S	0.996	0.058	0.877	0.0540	0.964	0.0020	0.0080	0.0280	0.049
FC-2-i	1O	0.992	0.059	0.894	0.0410	0.992	0.0030	0.0055	0.0100	0.058
oFC-9a	1A	0.993	0.086	0.863	0.0390	0.994	0.0040	0.0120	0.0030	0.083
<i>Little Cottonwood</i>										
LC-HFT-4-x	1Pc	0.996	0.064	0.872	0.0581	0.969	0.0008	0.0047	0.0287	0.062
LC-TQ-3-ab	1S	0.982	0.050	0.884	0.0480	0.966	0.0030	0.0270	0.0310	0.027
LC-TQ-4-b	1O	0.994	0.050	0.889	0.0431	0.981	0.0030	0.0099	0.0216	0.052
LC-SB-1-q	1Pc	0.998	0.050	0.899	0.0460	0.960	0.0010	0.0050	0.0330	0.034
LC-SB-4-ae	2A	1.004	0.054	0.895	0.0470	0.991	0.0030	0.0020	0.0034	0.067
oLC-HFT-6d	2B	0.996	0.310	0.647	0.0310	1.010	0.0010	0.0000	0.0020	0.278
<i>Little Cottonwood Mafic Enclaves</i>										
LC-HFT-18-1-11-h	1U	0.996	0.046	0.911	0.0433	0.973	0.0024	0.0056	0.0199	0.034
LC-SB-18-4-3-h	1Pc	0.994	0.046	0.907	0.0380	0.990	0.0020	0.0060	0.0140	0.051
LC-SB-18-4-6-j	1S	0.958	0.068	0.860	0.1290	0.917	0.0060	0.0070	0.0420	0.039
LC-SB-18-4-3-n	1O	0.991	0.046	0.895	0.0512	0.991	0.0034	0.0050	0.0164	0.058
LC-HFT-18-2-11-ad	2A	0.992	0.051	0.904	0.0480	0.990	0.0026	0.0018	0.0090	0.071

*Recalculated based on 3 cations

Table 3. Trace element concentrations in selected titanite grains from Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock

Grain	Textures	V	Y	Zr	Nb	Mo	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Ho	Er	Yb	Lu	Hf	W	Pb	Th	U
<i>Notch Peak</i>																							
nb-176-3a	1U	626	2884	561	3143	32	2104	8923	1442	7552	1598	266	1268	804	137	364	272	31	26	1	12	622	120
oNP-1-2a	1S	334	1970	1490	13600	29	2690	8250	1127	4580	798	105	512	349	66	189	223	38	69	127	24	620	1305
NP-6-1d	1O	674	3372	551	3982	32	2356	8925	1515	7681	1720	261	1050	774	127	357	306	37	31	-	10	621	131
NP-6-9a	2T	1350	646	443	2580	30	1870	5900	655	2270	288	53	169	85	21	53	85	13	26	1	8	293	266
NP-6-4d	2T	801	403	638	4141	115	1428	3535	359	1292	191	53	116	63	11	32	41	6	38	-	11	437	609
<i>Notch Peak Aplite</i>																							
NP-18-2a-6a	1U	570	913	748	4059	19	1225	4055	493	1892	221	25	176	133	28	101	135	18	95	7	7	123	122
NP-18-2a-22d	2T	83	131	157	3279	5	365	1027	107	399	44	9	32	23	5	17	20	3	9	2	18	79	217
NP-18-2a-15e	2F	869	1518	298	9961	20	356	1598	285	1449	345	74	298	254	52	159	197	26	51	6	8	54	105
<i>Little Cottonwood</i>																							
LC-SB-5e	1Pc	566	1582	389	1453	71	1907	7625	1113	5371	979	206	668	395	62	135	107	13	22	-	3	314	88
LC-HFT-3a	1Pc	790	879	524	898	33	2350	8800	1060	3420	468	160	264	147	26	84	72	10	35	-	-	251	72
LC-SL-6c	1S	647	2424	717	4226	31	2510	9727	1565	8011	1490	233	1097	688	118	299	211	24	54	2	7	565	102
LC-TQ1b	1O	640	1916	329	2496	31	1084	4510	742	3605	731	144	548	396	68	182	185	24	27	-	6	384	122
LC-SB-4o	2A	658	231	214	490	56	972	2379	255	940	104	31	77	41	7	24	21	4	21	-	13	211	218
oLC-HFT-6a	2B	696	181	130	710	22	403	1210	108	420	56	36	37	25	4	15	18	3	15	6	3	51	214
<i>Little Cottonwood mafic enclaves</i>																							
LC-HFT-18-2-24f	1U	1120	1180	348	1780	78	1910	7680	1060	4130	840	174	387	268	50	95	101	8	27	-	0	351	86
oLC-HFT-18-6-5a	1Up	722	1165	606	1216	35	3010	8020	935	2970	415	127	299	218	40	111	101	14	53	4	3	545	88
oLC-SB-18-5-3e	2T	819	455	467	729	41	1620	3920	355	1310	220	127	134	71	13	35	39	6	19	6	2	331	84
LC-HFT-18-2-23c	1Pm	880	761	486	1440	87	1850	8170	1230	4920	821	279	438	222	31	69	54	4	29	-	-	281	115
LC-HFT-18-2-13b	2A	790	633	281	1190	29	1400	5190	590	2270	299	82	226	123	23	47	59	3	24	-	4	349	500
Uncertainty		683	94	61	177	12	98	323	34	158	38	7	28	305	4	9	10	16	5	1	2	20	11

Concentrations in ppm

- = not detected

Table 4. Average composition of titanite from the Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock

Pluton	Si (pfu)	Al (pfu)	Ti (pfu)	Fe (pfu)	Ca (pfu)
Notch Peak primary	0.994 ± 0.009	0.053 ± 0.009	0.876 ± 0.022	0.055 ± 0.011	0.979 ± 0.018
Notch Peak secondary	0.995 ± 0.011	0.050 ± .011	0.887 ± 0.023	0.053 ± 0.014	0.990 ± 0.014
Ferguson Canyon primary	1.002 ± 0.006	0.059 ± 0.005	0.888 ± 0.009	0.043 ± 0.005	0.983 ± 0.007
Little Cottonwood w patchy cores	0.999 ± 0.008	0.049 ± 0.007	0.903 ± 0.014	0.043 ± 0.009	0.973 ± 0.013
Little Cottonwood w/o patchy cores	0.997 ± 0.010	0.052 ± 0.006	0.893 ± 0.012	0.044 ± 0.007	0.977 ± 0.014
Little Cottonwood secondary	0.998 ± 0.010	0.057 ± .007	0.886 ± 0.007	0.044 ± 0.007	0.988 ± 0.012
Little Cottonwood mafic enclaves	0.992 ± 0.037	0.049 ± 0.008	0.902 ± 0.043	0.045 ± 0.009	0.983 ± 0.071
Composition given in atoms per formula unit (pfu)					
*± = 1 standard deviation					

Mn (pfu)	Nb (pfu)	Tot REE (pfu)	F (pfu)
0.004 ± 0.002	0.012 ± 0.012	0.020 ± 0.007	0.057 ± 0.013
0.003 ± 0.001	0.007 ± 0.008	0.012 ± 0.007	0.070 ± 0.017
0.002 ± 0.001	0.005 ± 0.002	0.012 ± 0.002	0.056 ± 0.008
0.002 ± 0.001	0.005 ± 0.002	0.022 ± 0.009	0.046 ± 0.010
0.003 ± 0.008	0.008 ± 0.005	0.019 ± 0.009	0.049 ± 0.011
0.003 ± 0.001	0.007 ± 0.001	0.011 ± 0.006	0.064 ± 0.009
0.003 ± 0.001	0.005 ± 0.004	0.017 ± 0.008	0.050 ± 0.011

Table 5. Representative oxygen isotopic compositions and Zr-in-titanite temperatures for titanite from the Notch Peak granite, Ferguson Canyon intrusion, and Little Cottonwood stock

Sample	Texture	$\delta^{18}\text{O}$ (‰ VSMOW)	Temp (°C)
<i>Notch Peak</i>			
oNP-1-1-t4	1U	6.0	709
oNP-1-3b	1U	6.7	711
oNP-1-1-t5	1O	6.0	706
oNP-1-1l	2T	5.7	730
oNP-1-1m	2T	6.2	682
<i>Notch Peak Aplite</i>			
oNP-18-3a-1e	2F	6.1	714
<i>Ferguson Canyon</i>			
oFC-2c	1U	5.2	-
oFC-8e	1O	5.1	-
oFC-1e	2A	4.3	-
<i>Little Cottonwood</i>			
oLC-HFT-1c	1O	4.7	707
oLC-HFT-7e	1S	5.4	710
oLC-SB-5c	1Pc	5.3	736
oLC-SB-1a	1Pc	4.6	760
oLC-HFT-8f	2A	4.6	630
oLC-HFT-7i	2B	2.6	-
<i>Little Cottonwood mafic enclaves</i>			
oLC-HFT-18-6-5d	1U	5.3	708
oLC-SB-18-5-2e	1U	4.8	703
oLC-HFT-18-6-1c	1U	5.6	724
oLC-SB-18-5-5c	1Pc	5.2	714
oLC-HFT-18-6-3g	2A	5.3	678

Supplemental Figures A

Outcrop and Grain Images

American Mineralogist
Henze et al.



Figure A1. Notch Peak, one of the most dramatic peaks in Utah. The high cliffs are Cambrian sedimentary rocks. The pinkish lower cliffs are the Notch Peak pluton.

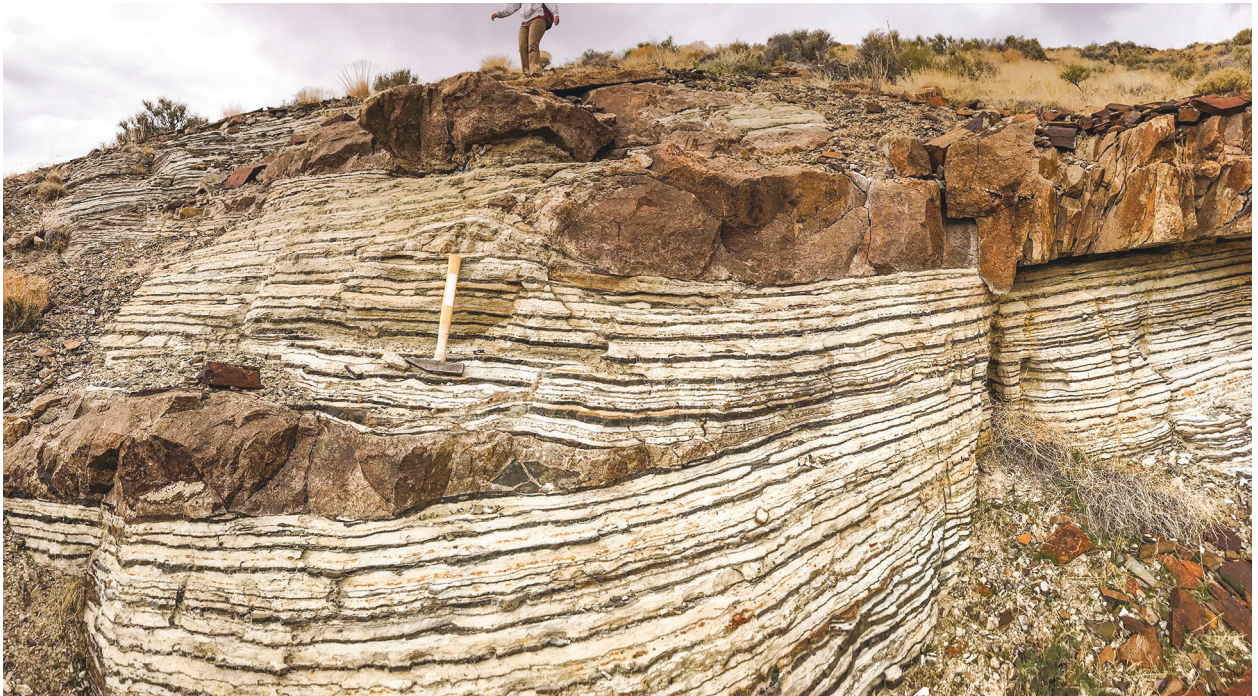


Figure A2. Around the margins of the Notch Peak pluton sills of granite, aplite, and pegmatite have intruded into and altered the Cambrian sedimentary rocks.

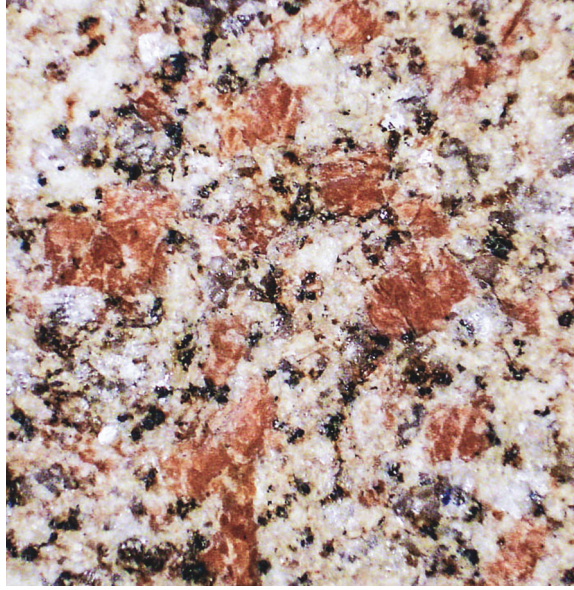


Figure A3. Notch Peak granite with quartz (white), plagioclase (light gray), K-feldspar (red), and biotite (black) as the main mineral components.



Figure A4. Little Cottonwood Canyon looking out over south Salt Lake Valley. Note the glaciated shape of the canyon and the outcrops of the Little Cottonwood granodiorite on the sides of the canyon.



Figure A5. Little Cottonwood granodiorite with several mafic enclaves.

Notch Peak grain images

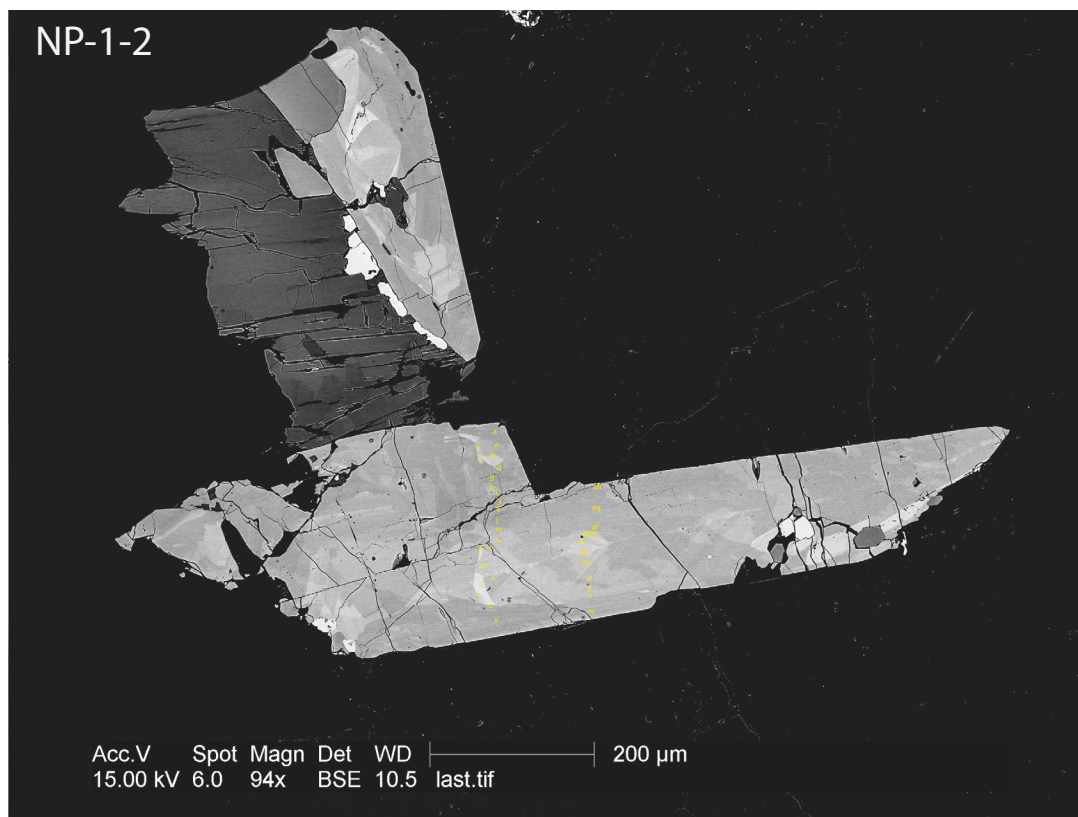
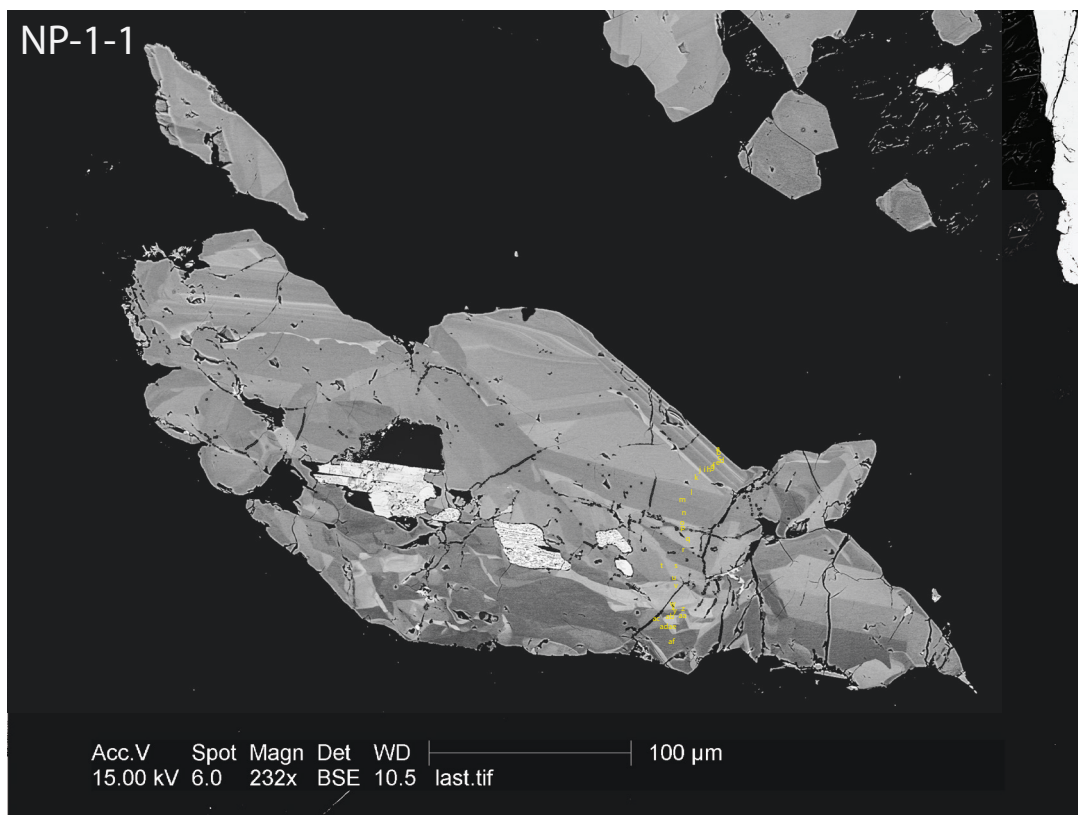


Figure A6. Notch Peak grains NP-1-1 and NP-1-2 with electron microprobe spots (yellow letters).

Notch Peak grain images

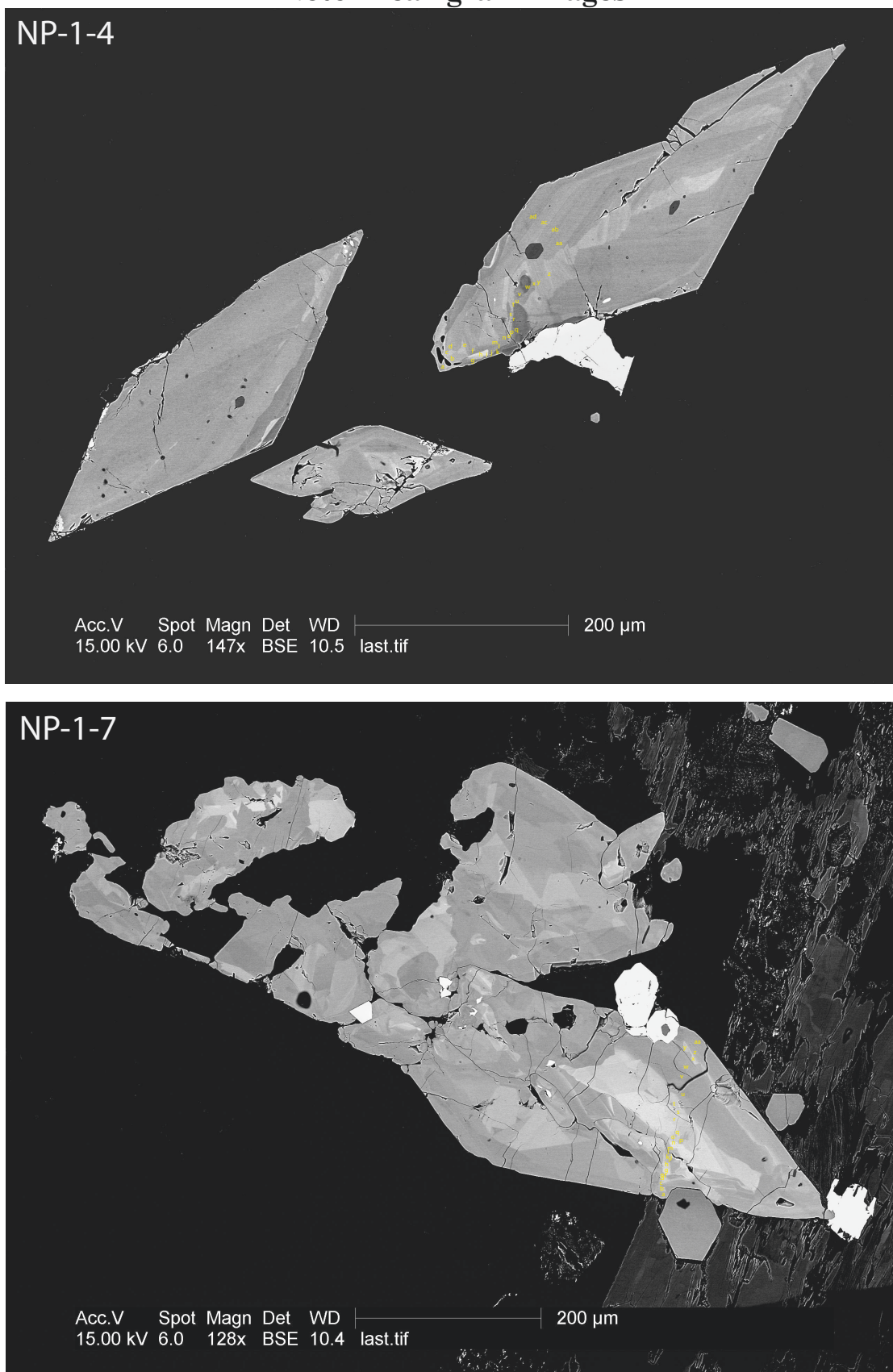


Figure A7. Notch Peak grains NP-1-4 and NP-1-7 with electron microprobe spots (yellow letters).

Notch Peak grain images

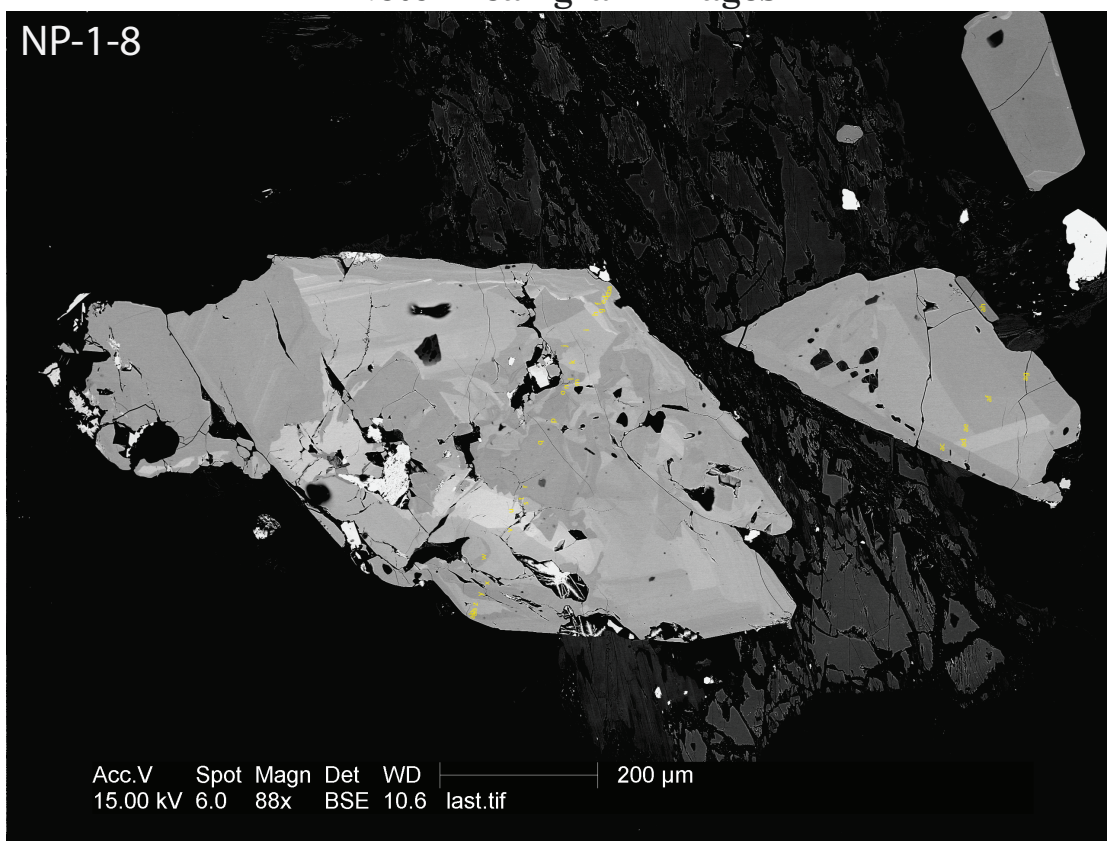


Figure A8. Notch Peak grain NP-1-8 with electron microprobe spots (yellow letters).

Notch Peak grain images

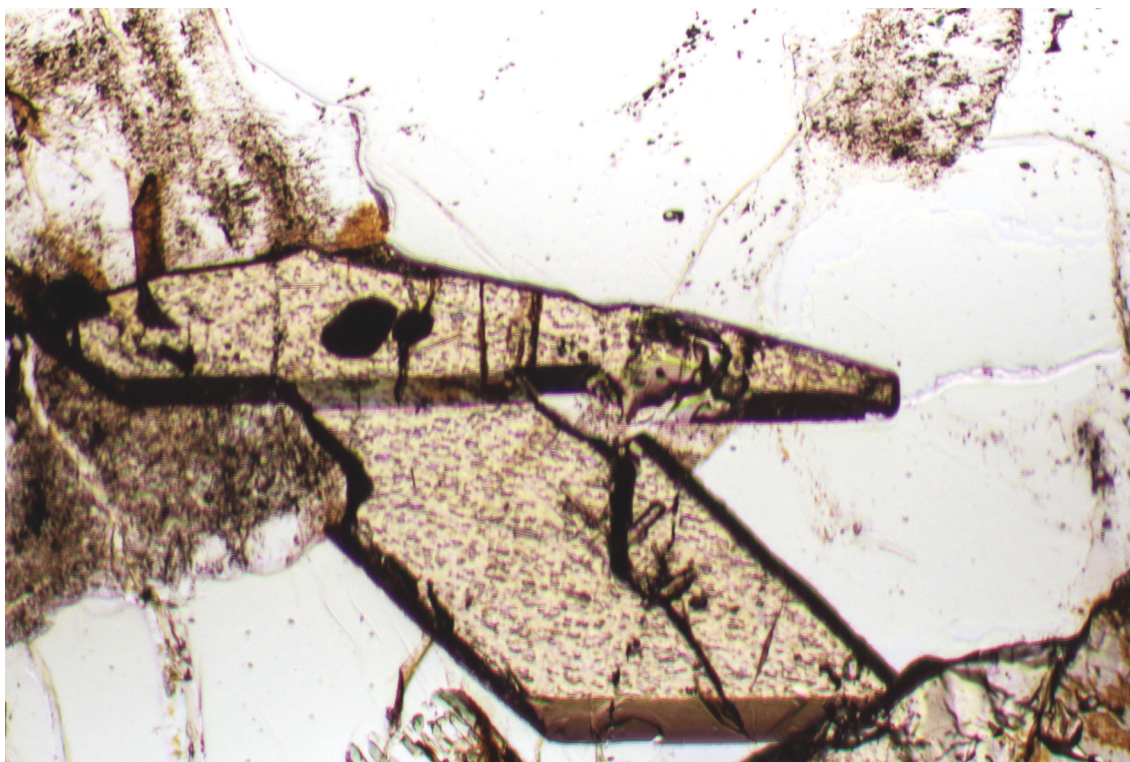
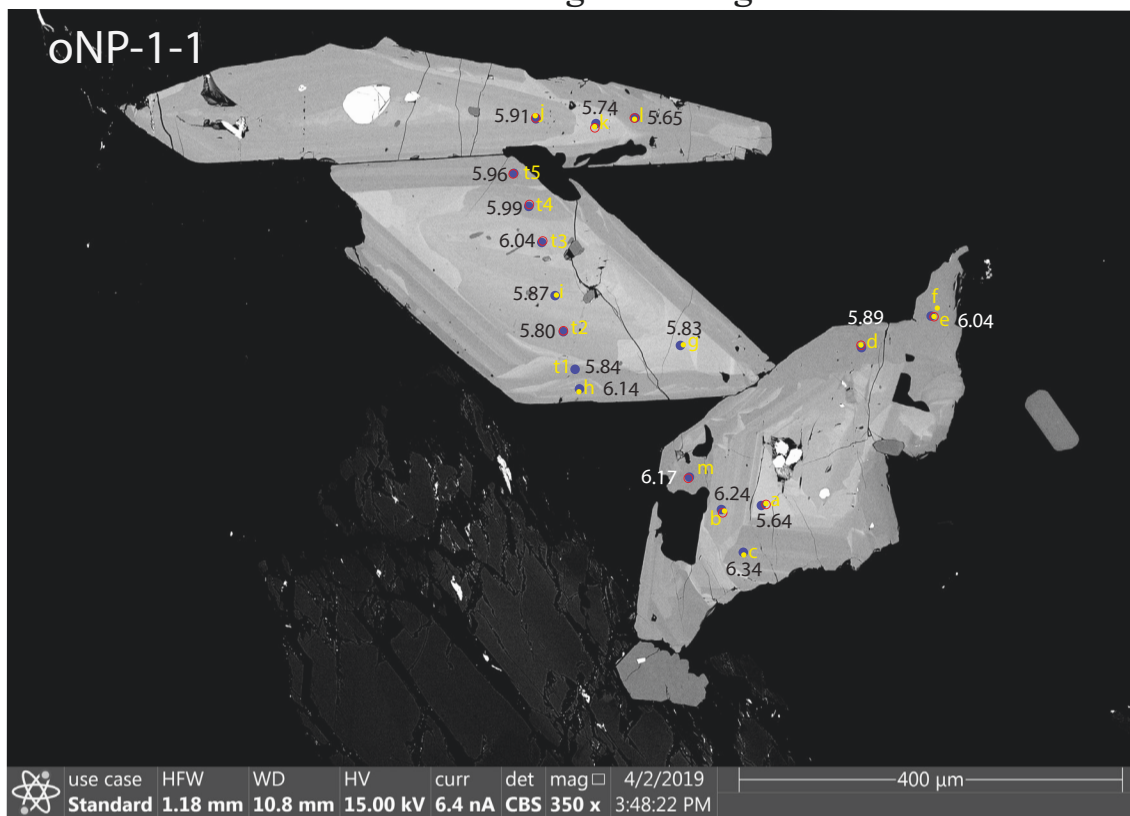


Figure A9. Top: Notch Peak grains oNP-1-1 with electron microprobe spots (yellow), LA-ICP-MS spots (red), oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values. Bottom: Petrographic view of the two upper grains in the BSE photo above.

Notch Peak grain images

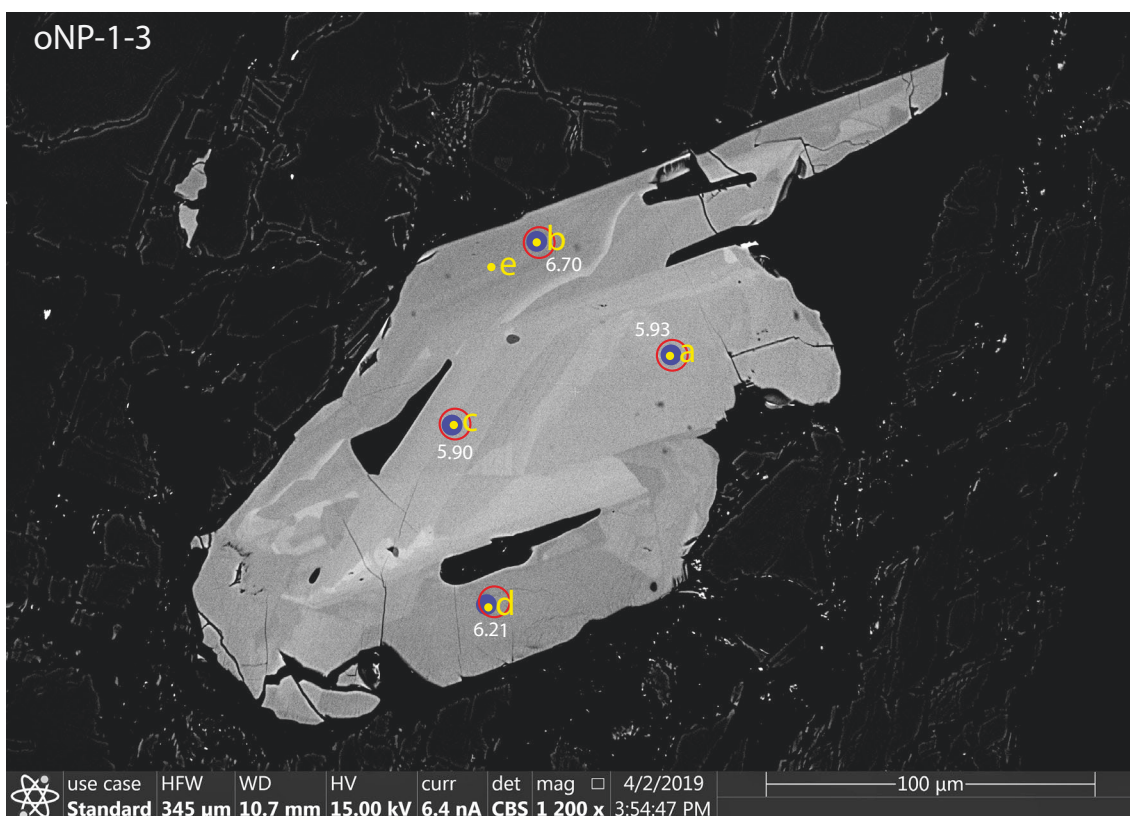
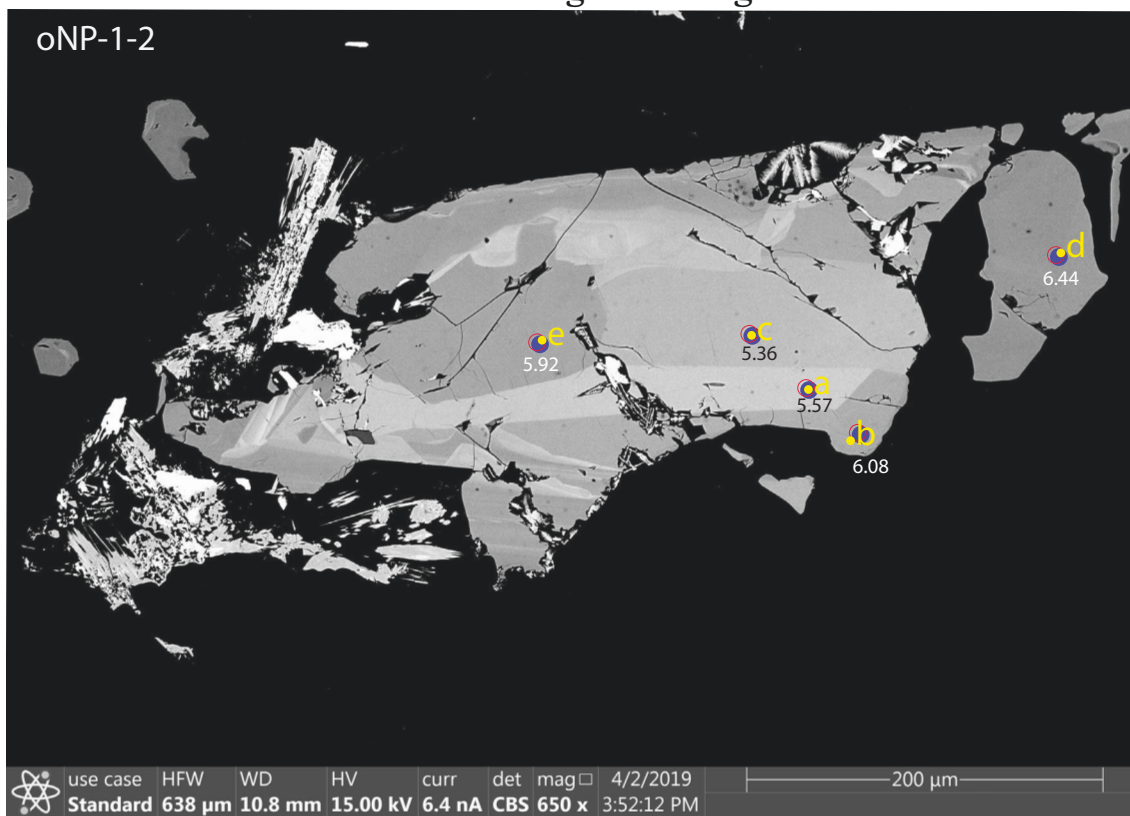


Figure A10. Notch Peak grains oNP-1-2 and oNP-1-3 with electron microprobe spots (yellow), LA-ICP-MS spots (red), oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

Notch Peak grain images

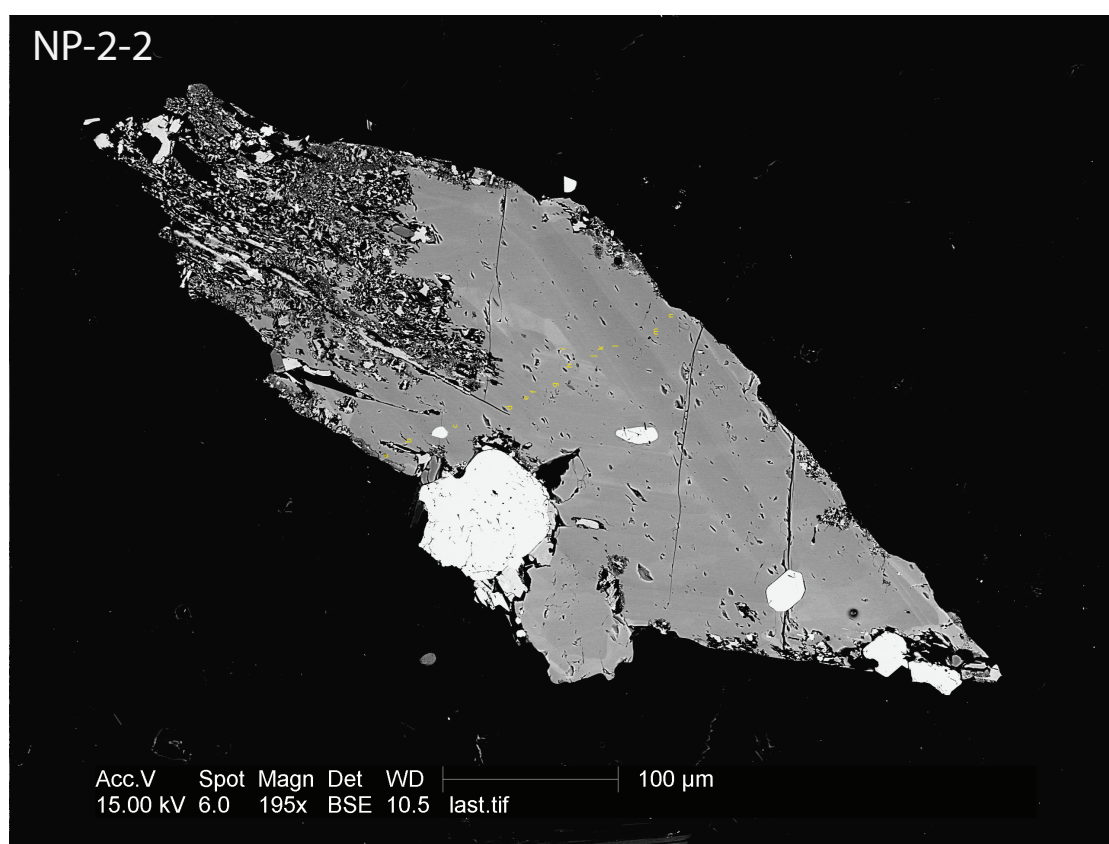
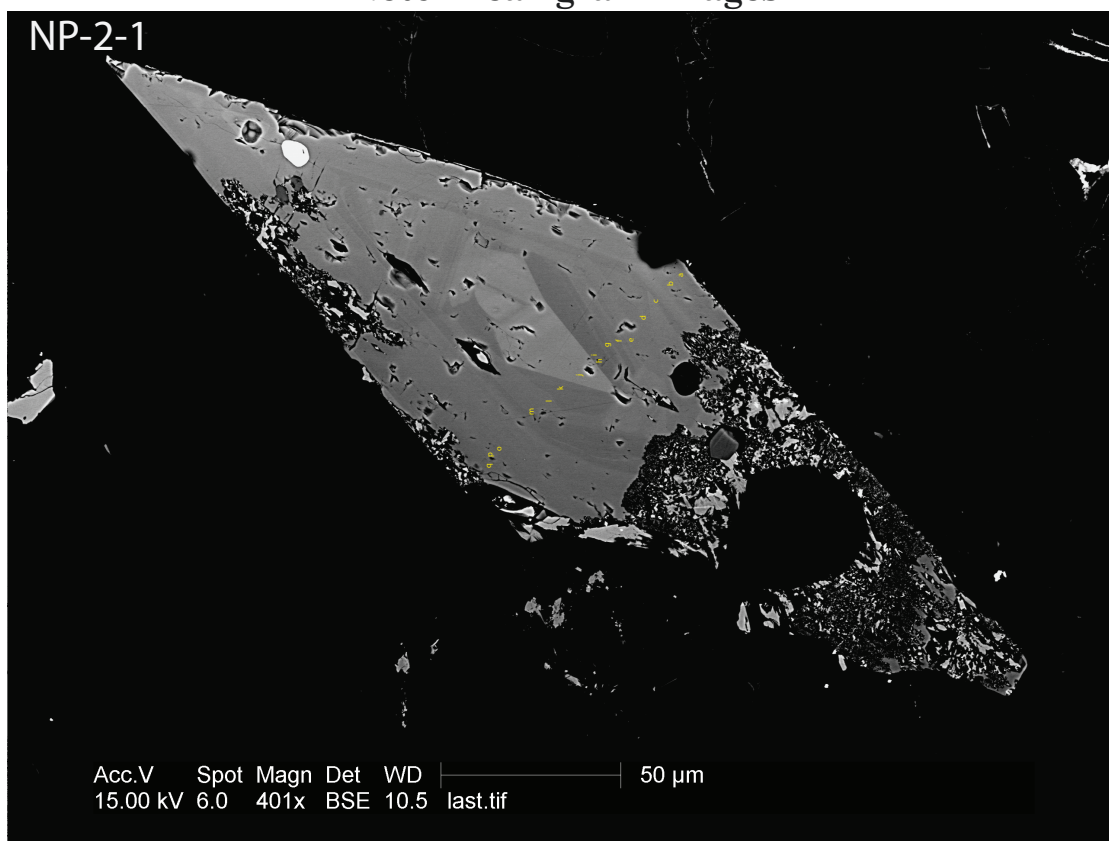


Figure A11. Notch Peak grains NP-2-1 and NP-2-2 with electron microprobe spots (yellow letters).

Notch Peak grain images

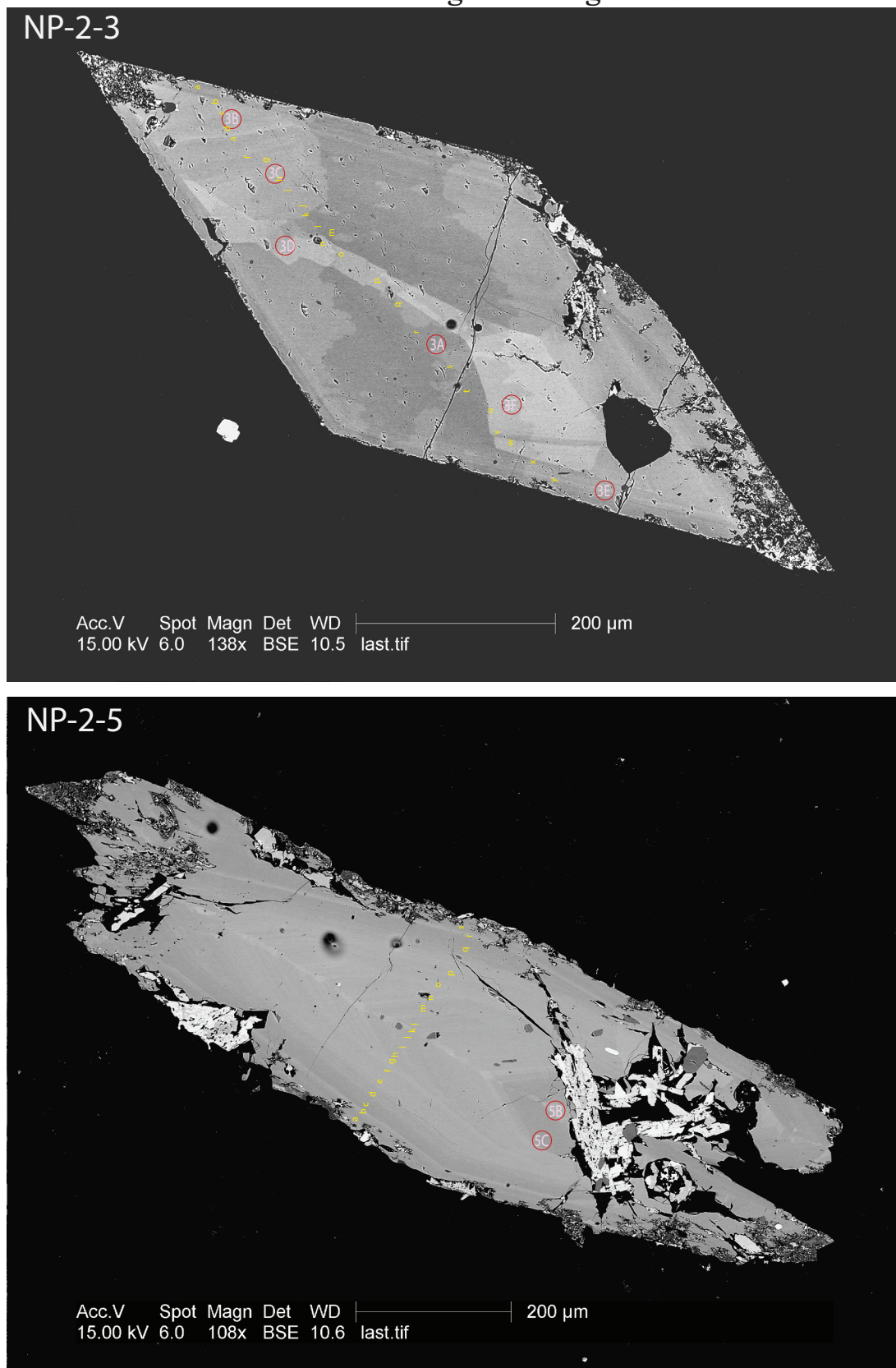


Figure A12. Notch Peak grains NP-2-3 and NP-2-5 with electron microprobe spots (yellow letters) and LA-ICPMS spots (red with pink letters).

Notch Peak grain images

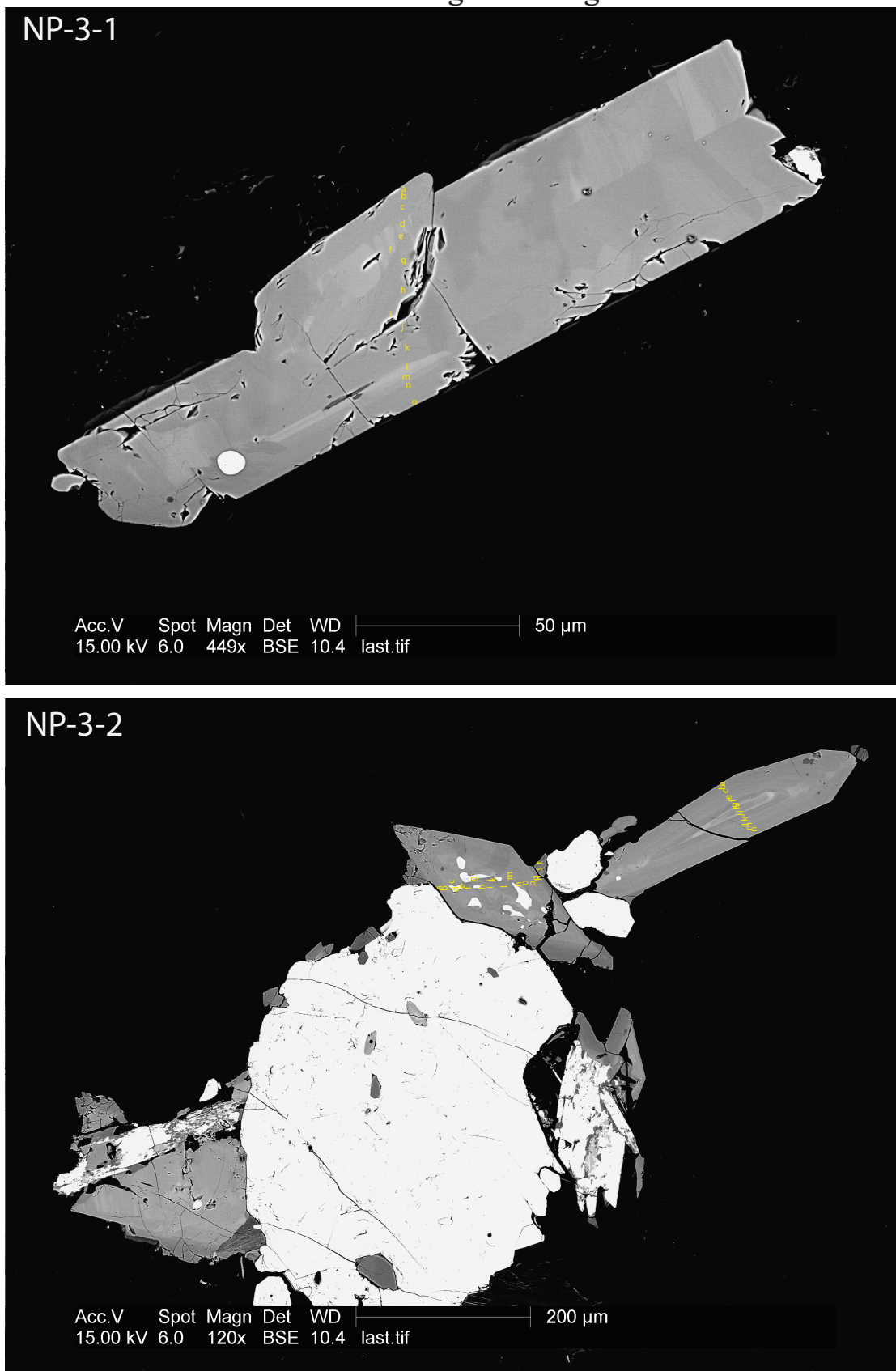


Figure A13. Notch Peak grains NP-3-1 and NP-3-2 with electron microprobe spots (yellow letters).

Notch Peak grain images

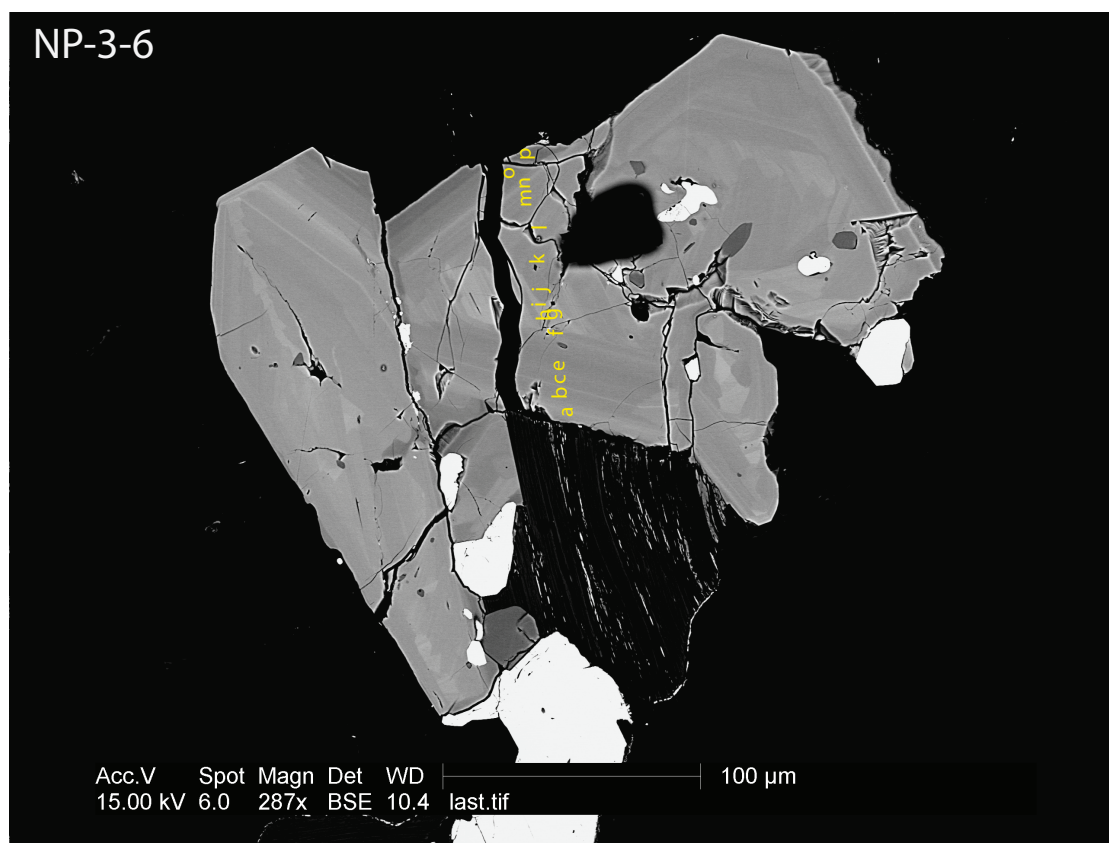
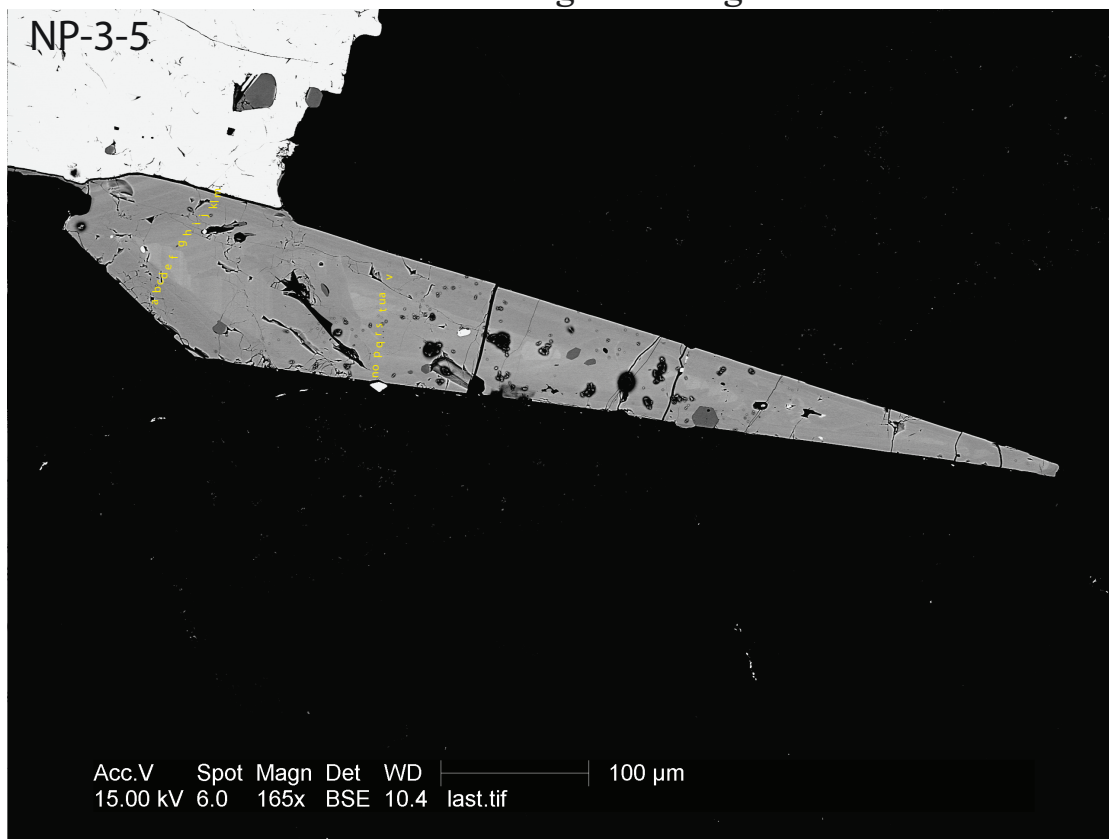


Figure A14. Notch Peak grains NP-3-5 and NP-3-6 with electron microprobe spots (yellow letters).

Notch Peak grain images

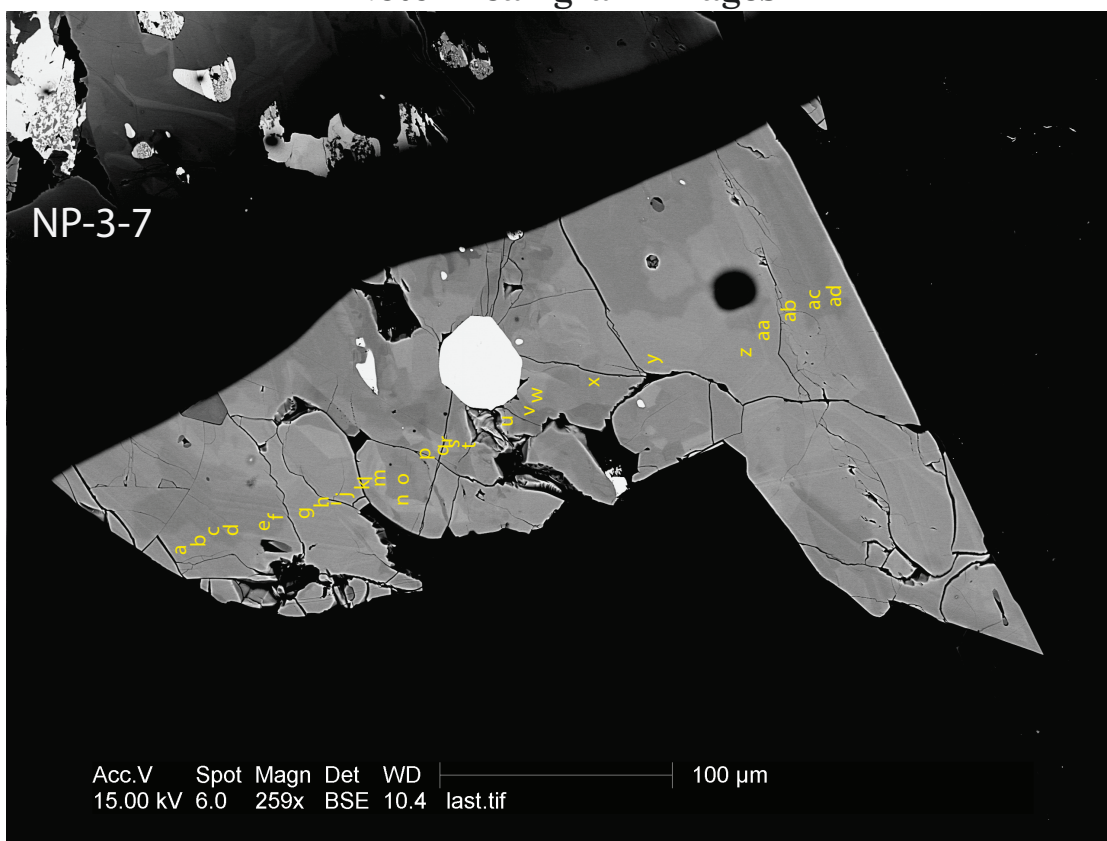


Figure A15. Notch Peak grain NP-3-7 with electron microprobe spots (yellow letters).

Notch Peak grain images

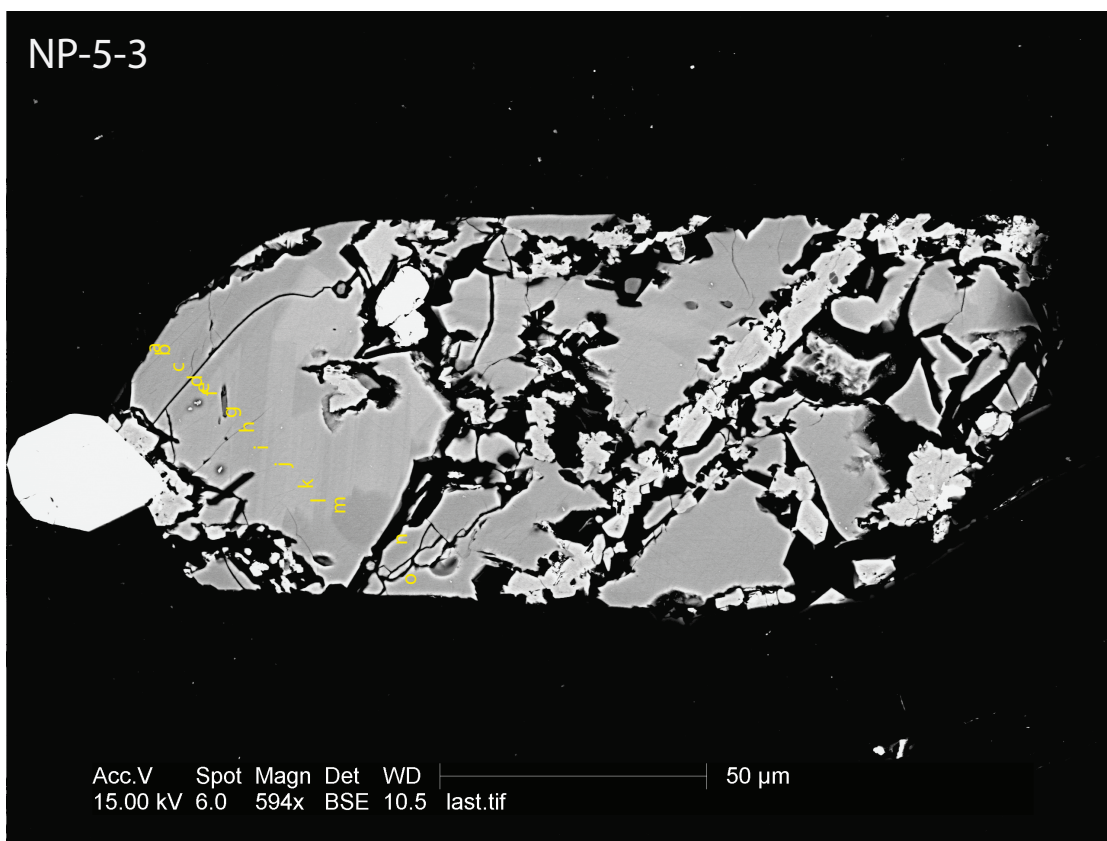
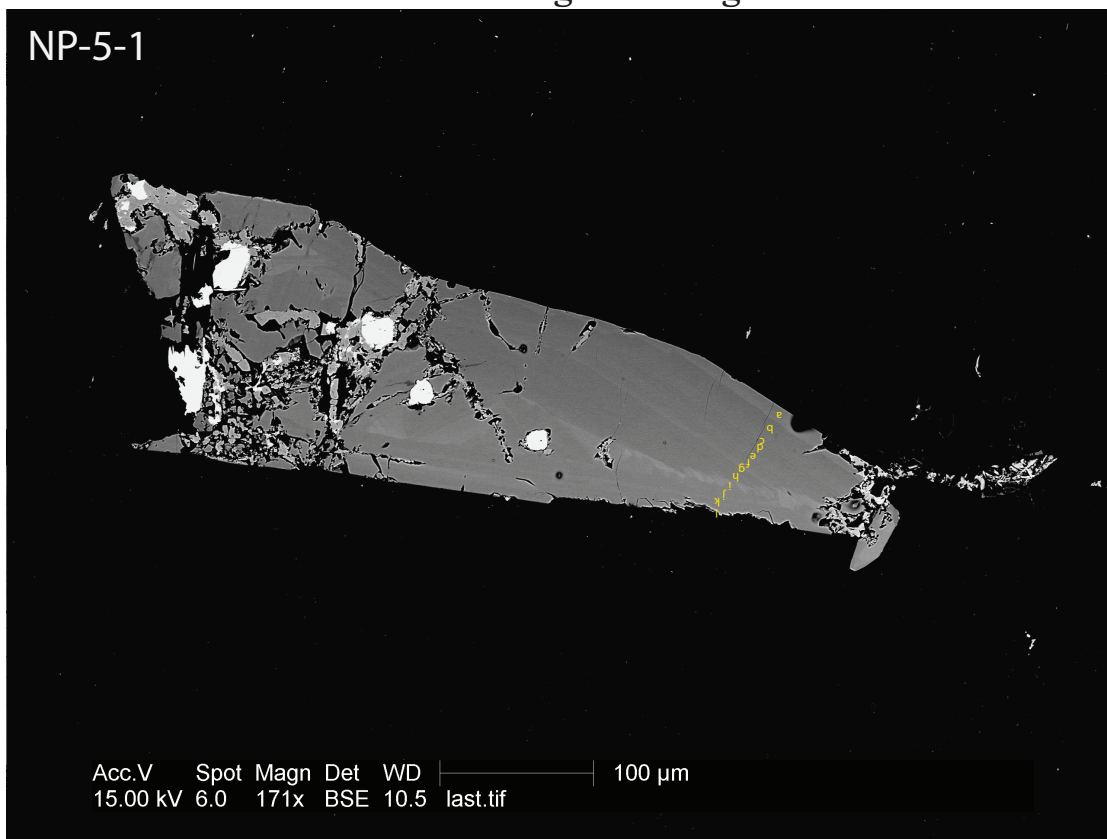


Figure A16. Notch Peak grains NP-5-1 and NP-5-3 with electron microprobe spots (yellow letters).

Notch Peak grain images

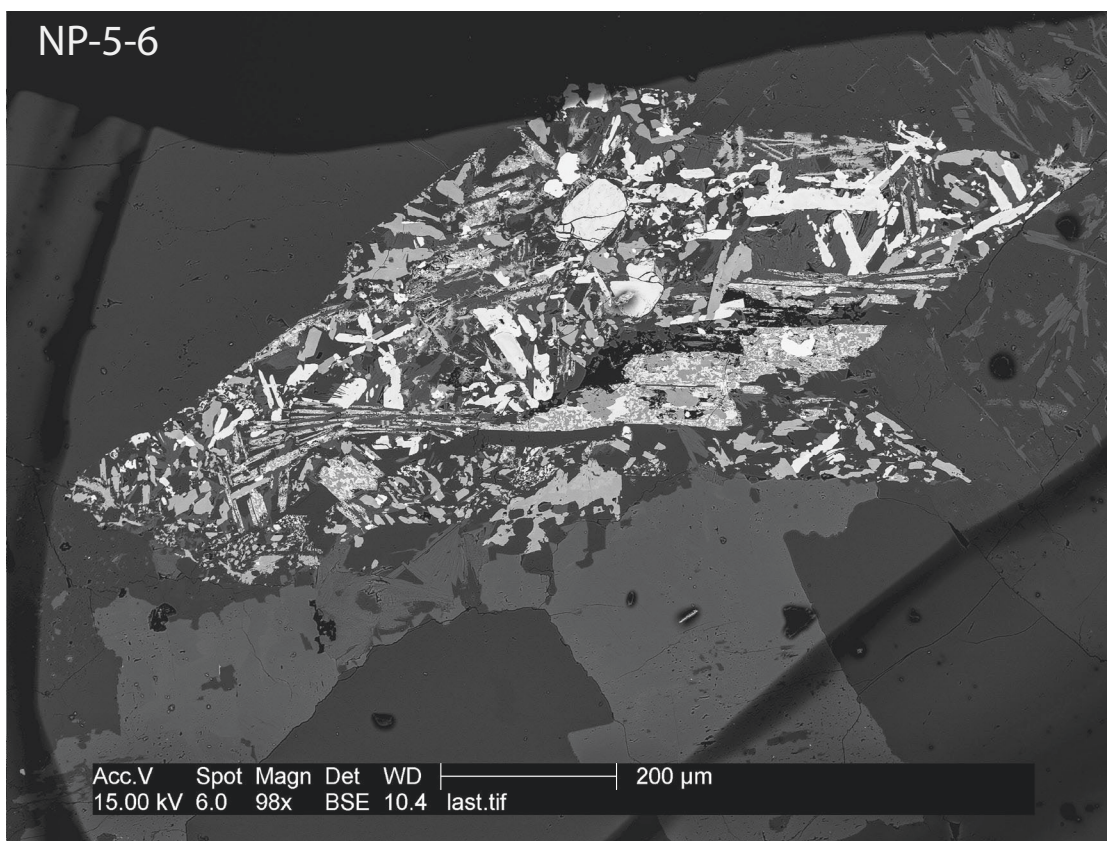
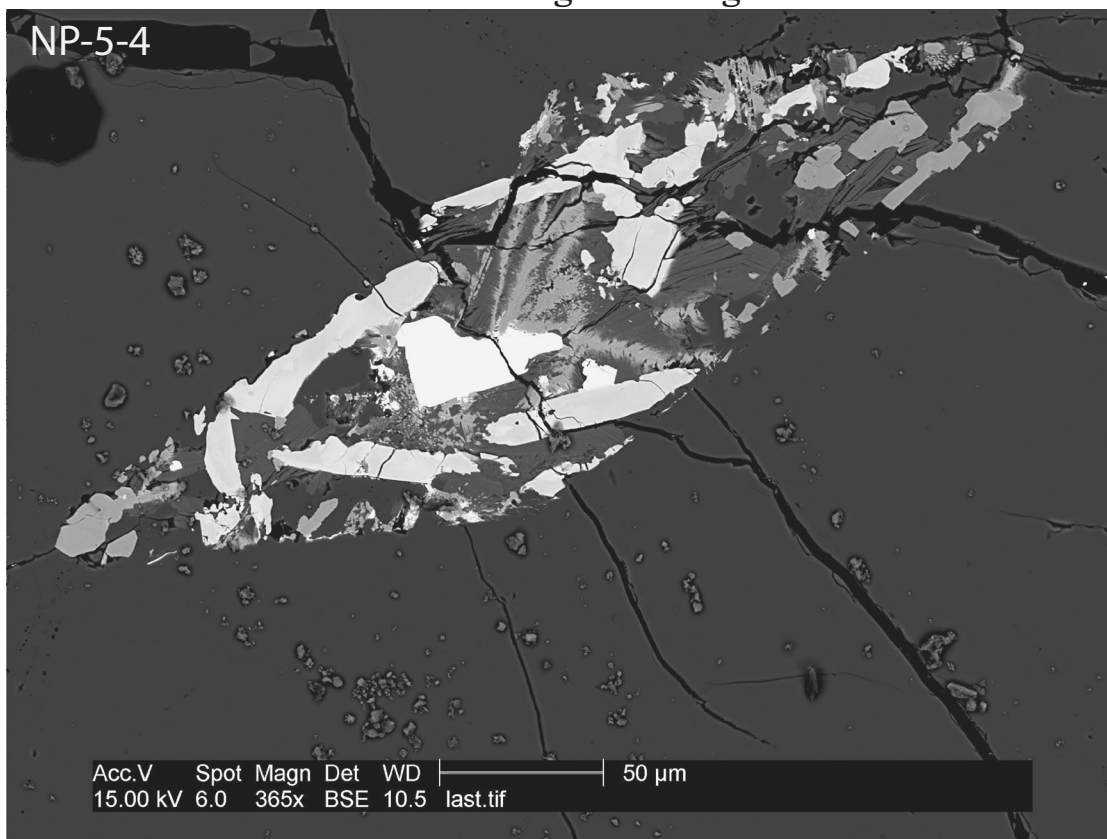


Figure A17. Notch Peak grains NP-5-4 and NP-5-6 showing complete replacement of titanite by secondary minerals.

Notch Peak grain images

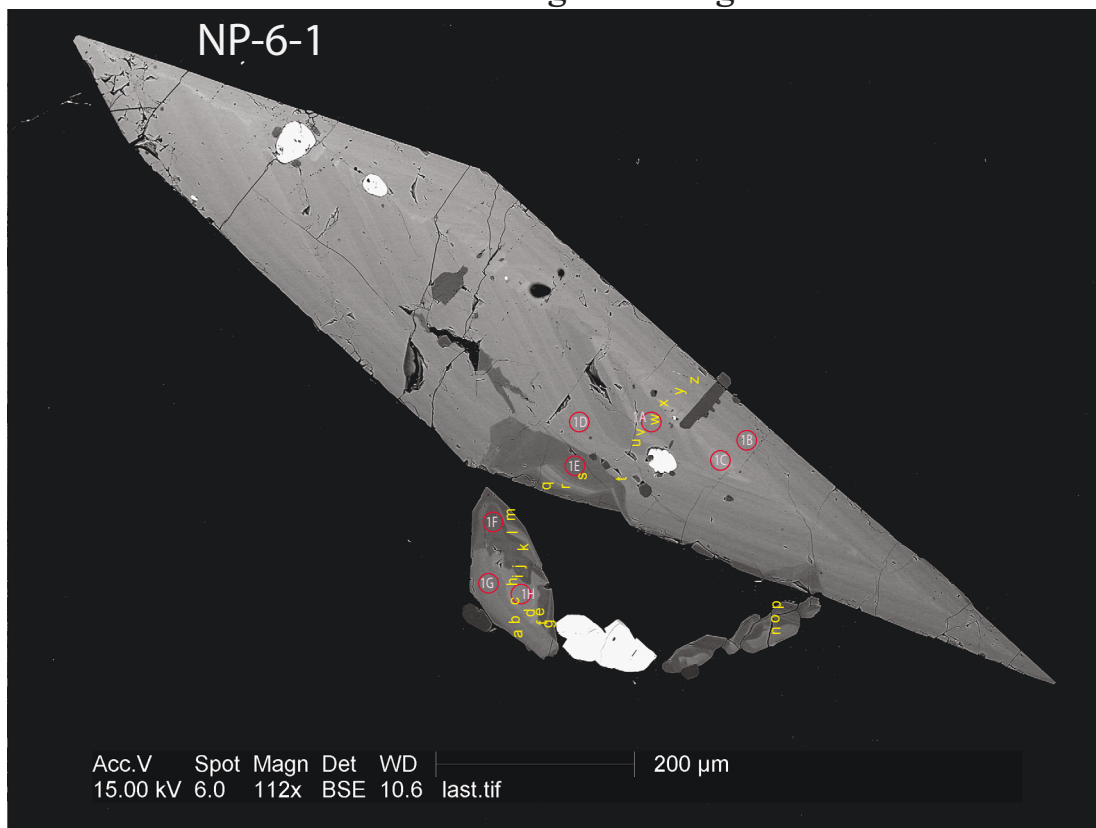


Figure A18. Top: Notch Peak grains in NP-6-1 with electron microprobe spots (yellow letters) and LA-ICP-MS spots (red with pink letters). Bottom: Petrographic view of the grains in the BSE photo above. Bubbles in epoxy seem to accumulate under titanite grains preferentially in thin sections.

Notch Peak grain images

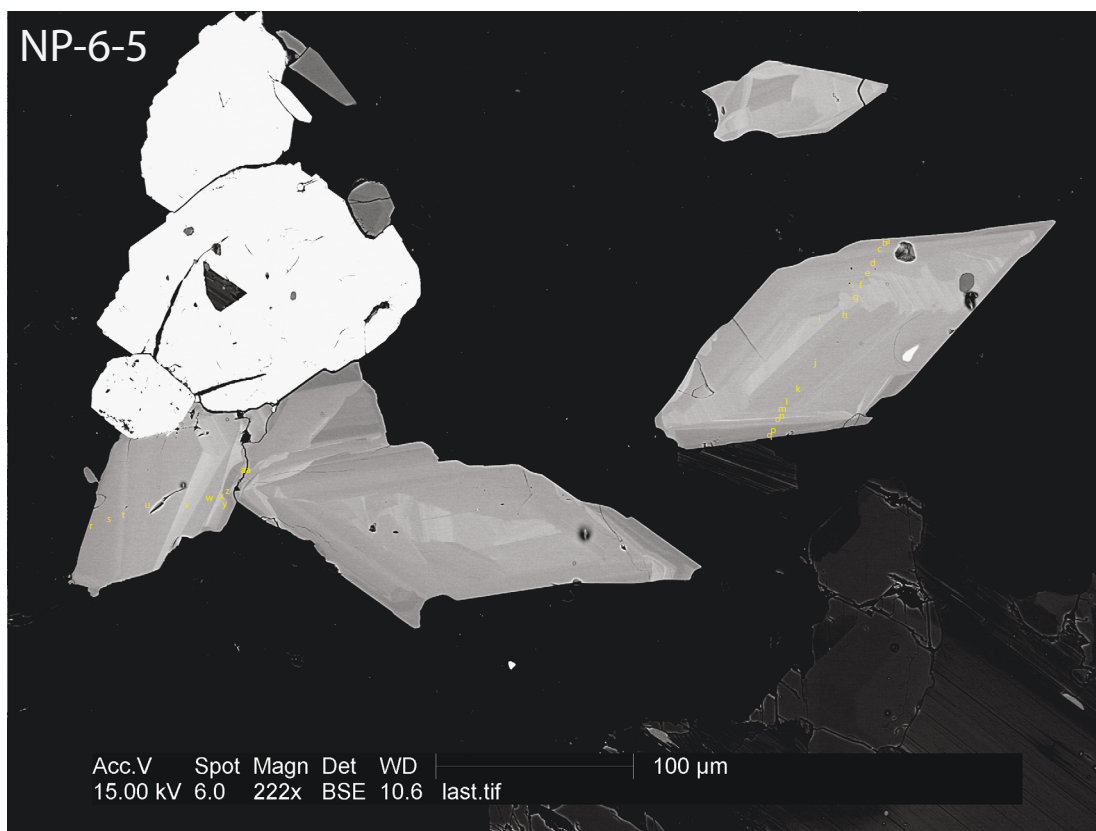
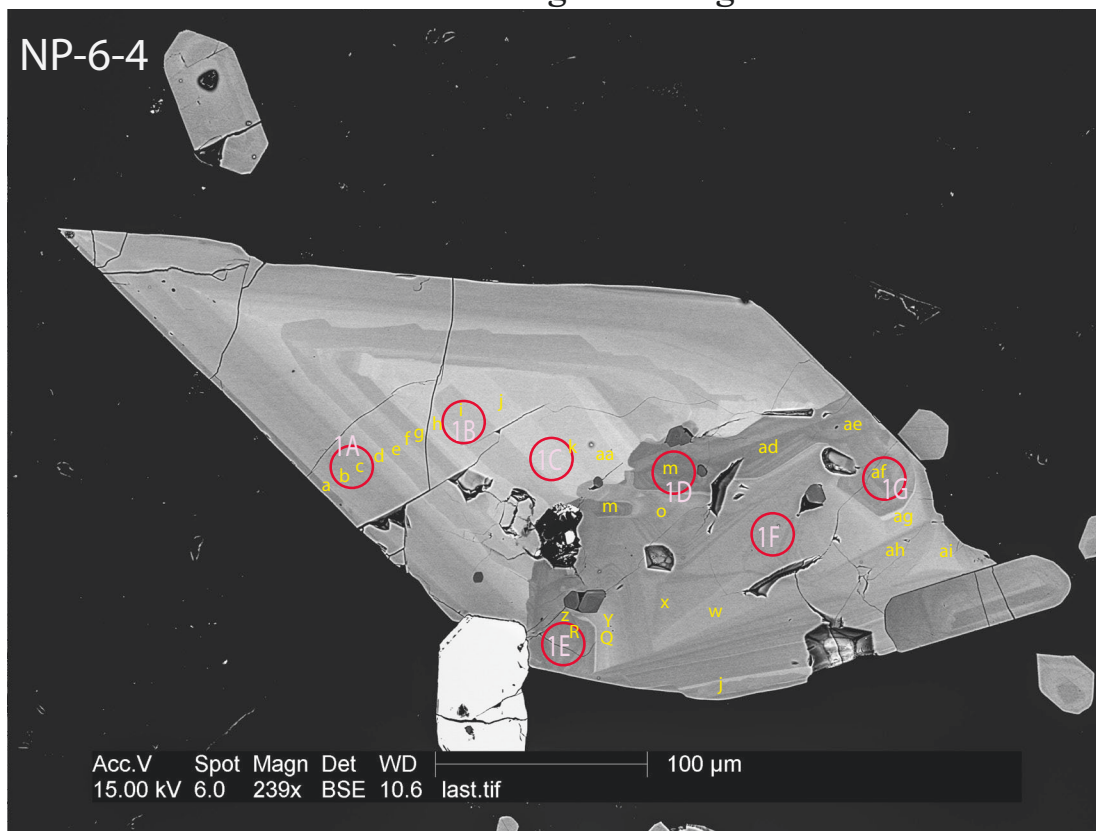


Figure A19. Notch Peak grains in NP-6-4 and NP-6-5 with electron microprobe spots (yellow letters) and LA-ICPMS spots (red with pink letters).

Notch Peak grain images

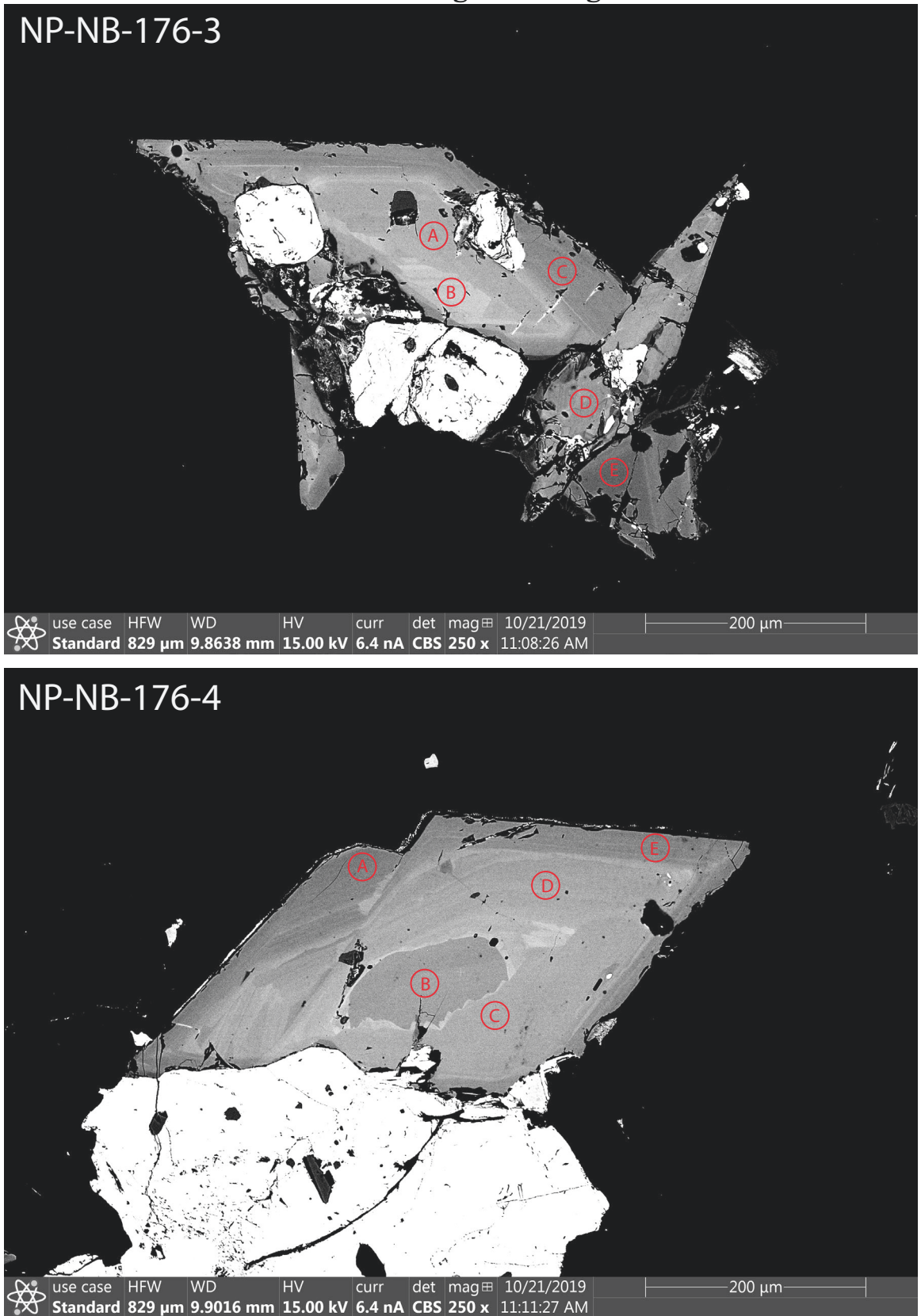


Figure A20. Notch Peak grains in NP-NB-176-3 and NP-NB-176-4 with LA-ICP-MS points (red).

Notch Peak aplite grain images

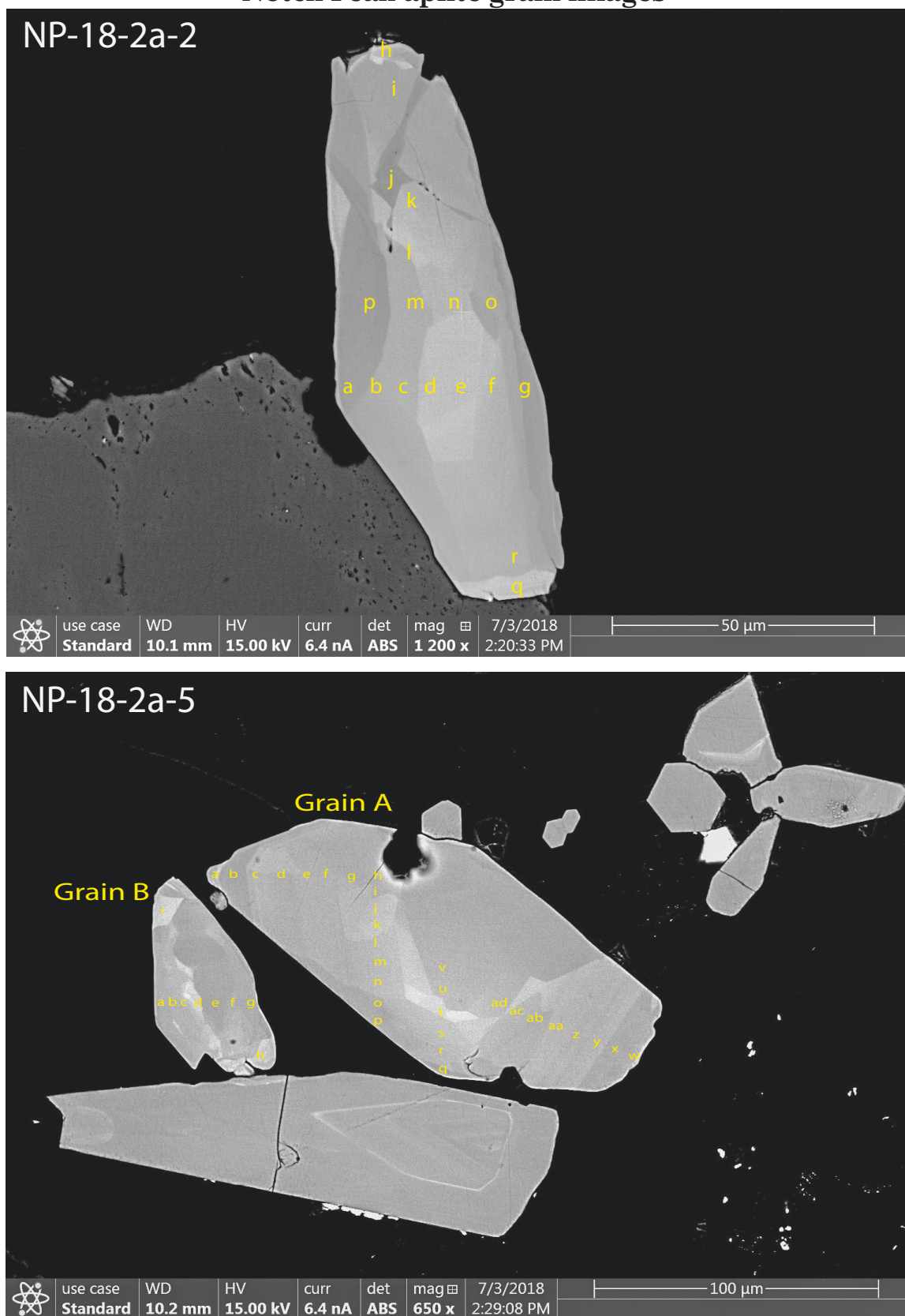


Figure A21. Notch Peak aplite grains in NP-18-2a-2 and NP-18-2a-5 with electron microprobe spots (yellow letters).

Notch Peak aplite grain images

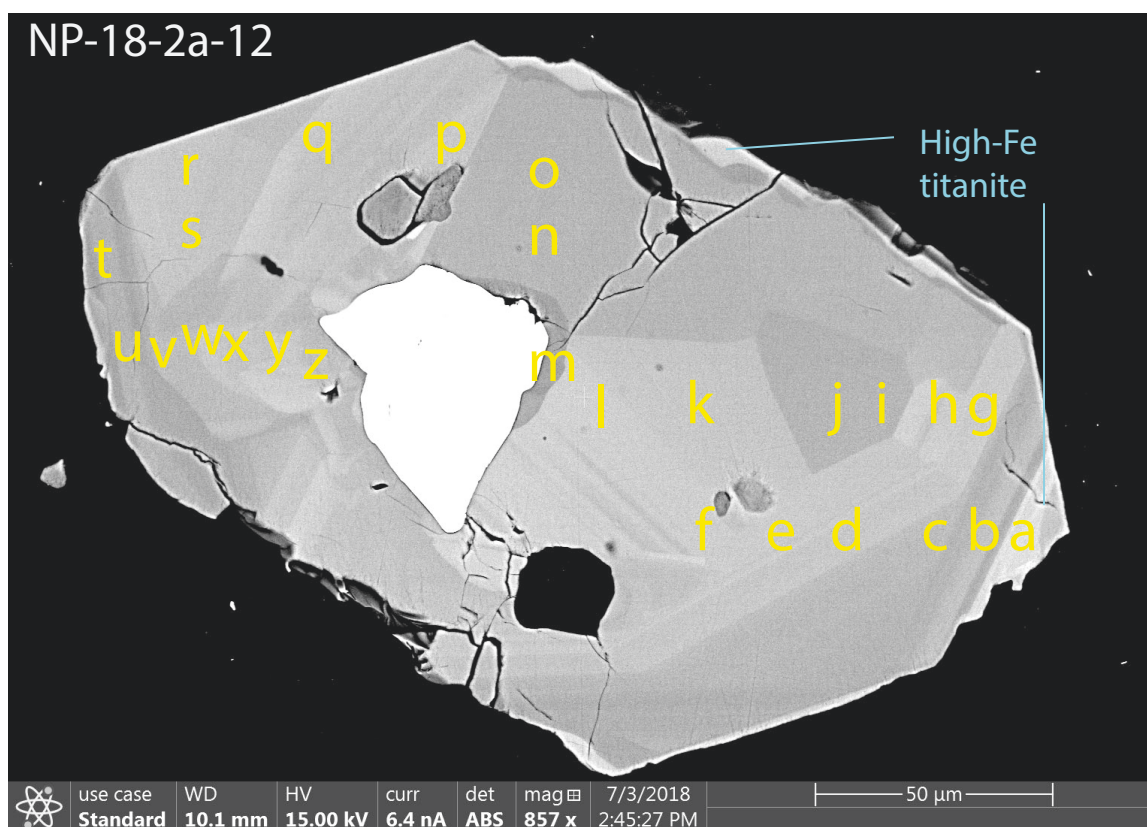
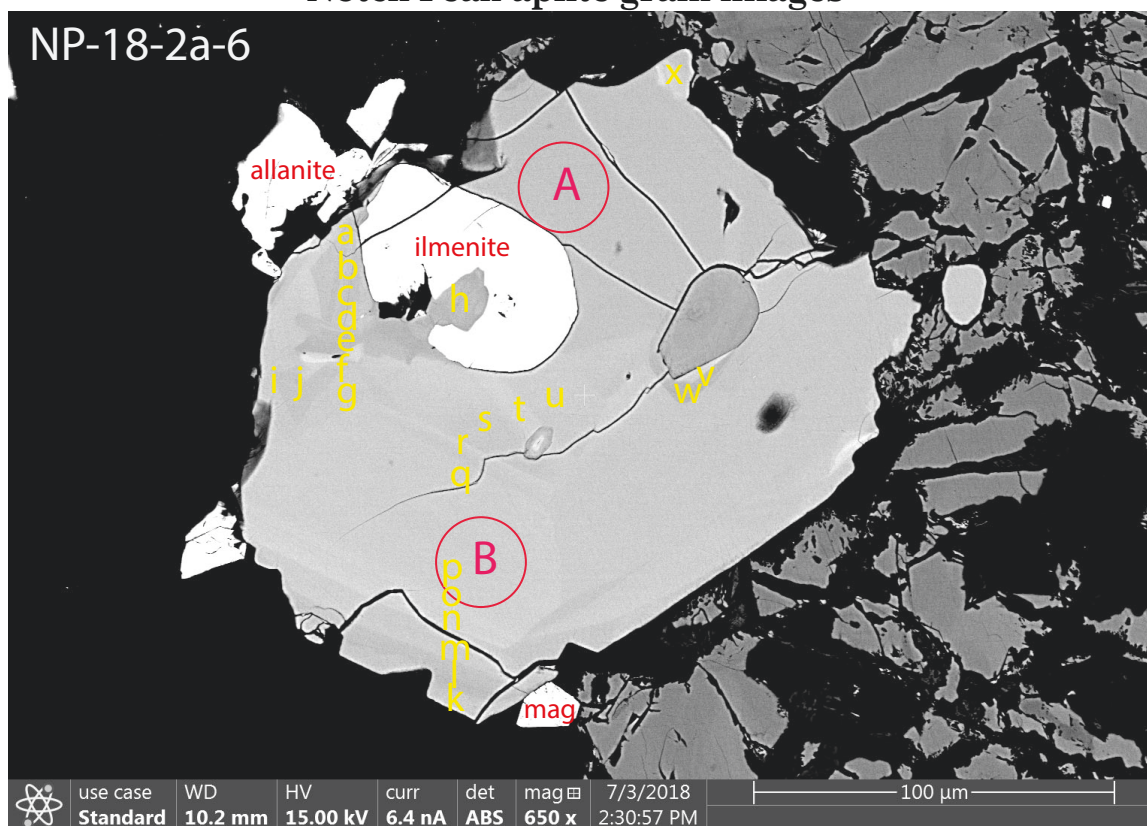


Figure A22. Notch Peak aplite grains in NP-18-2a-6 and NP-18-2a-12 with electron microprobe spots (yellow letters) and LA-ICP-MS points (red).

Notch Peak aplite grain images

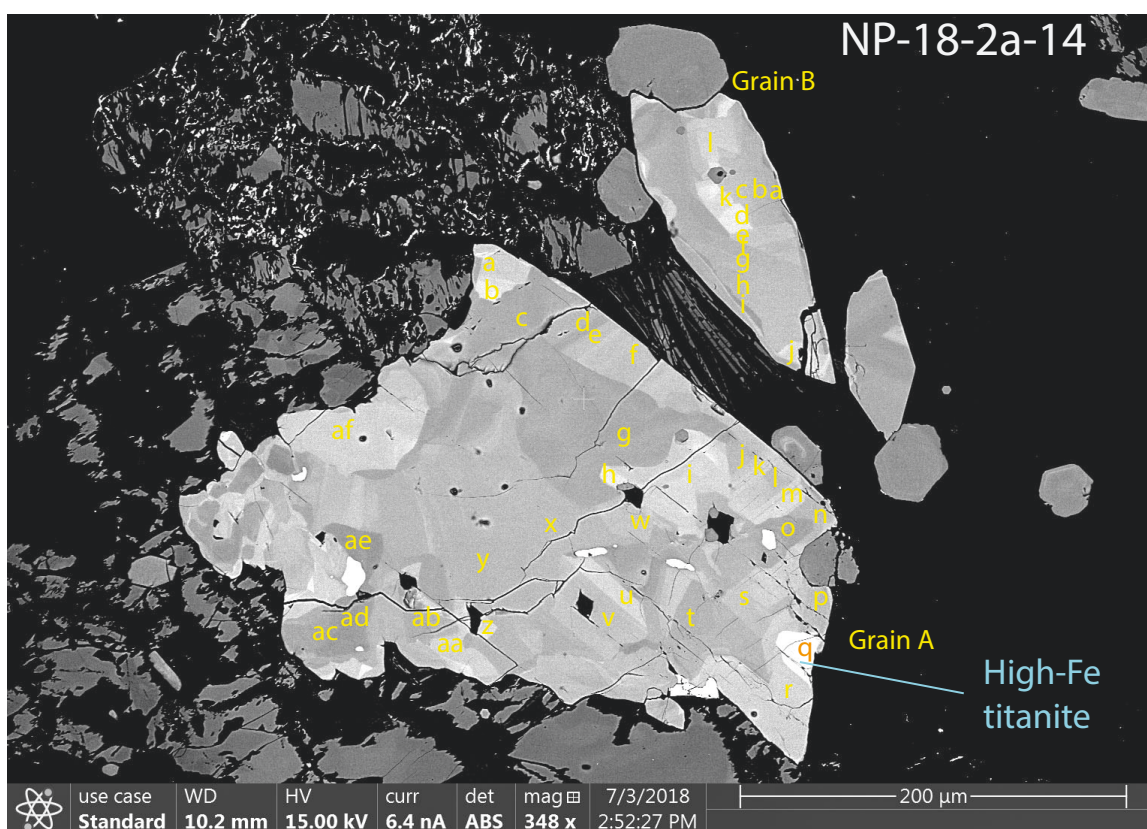
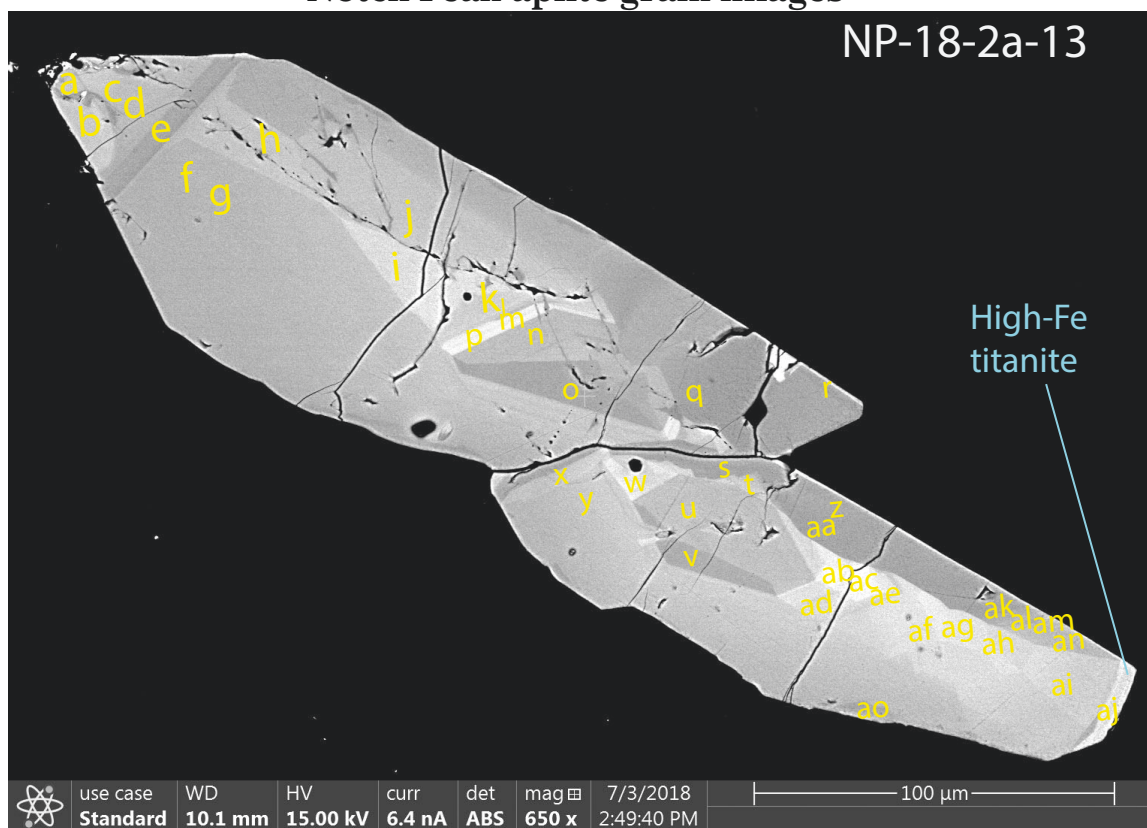


Figure A23. Notch Peak aplite grains in NP-18-2a-13 and NP-18-2a-14 with electron microprobe spots (yellow letters).

Notch Peak aplite grain images

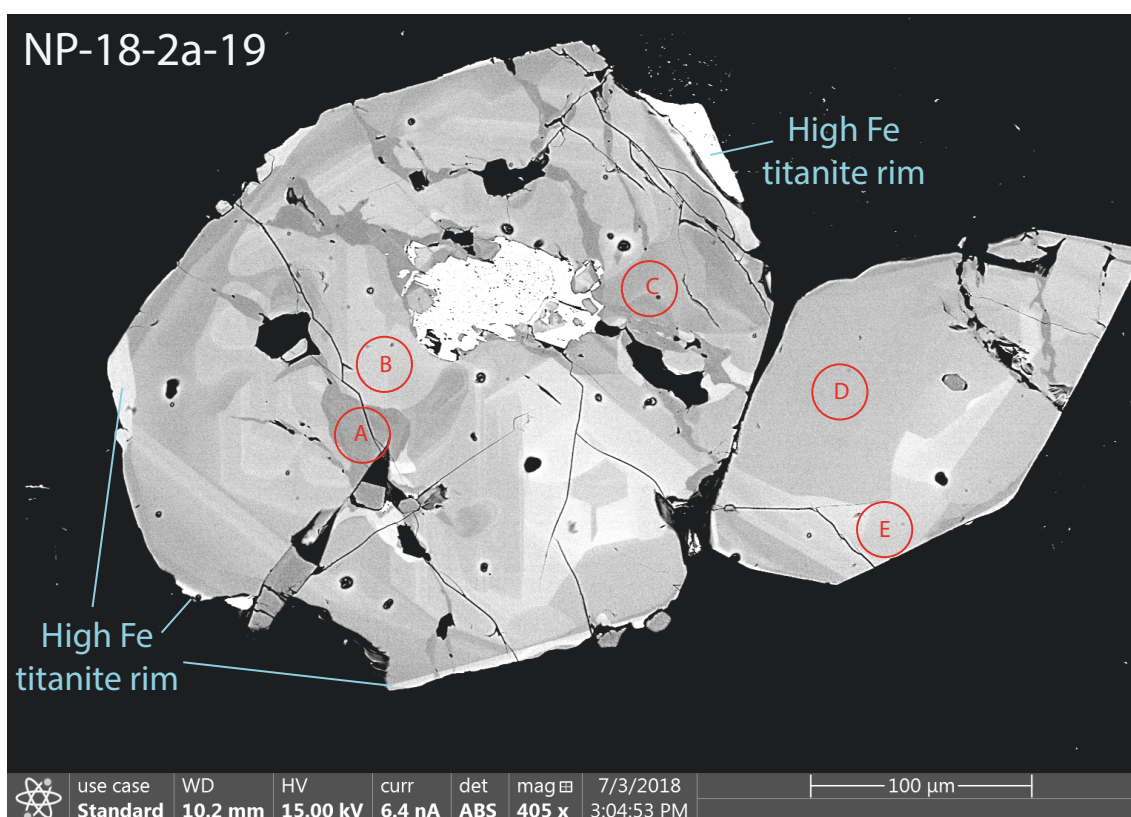
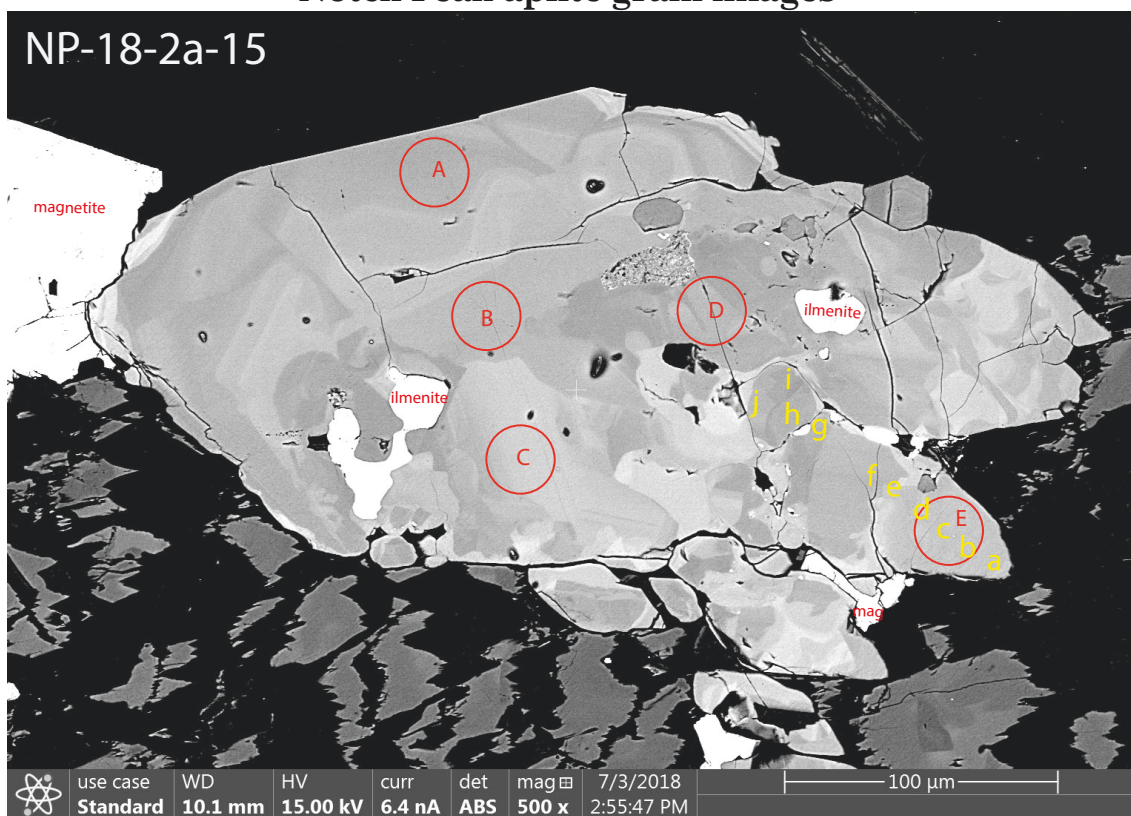


Figure A24. Notch Peak aplite grains in NP-18-2a-15 and NP-18-2a-19 with electron microprobe spots (yellow letters) and LA-ICP-MS points (red).

Notch Peak aplite grain images

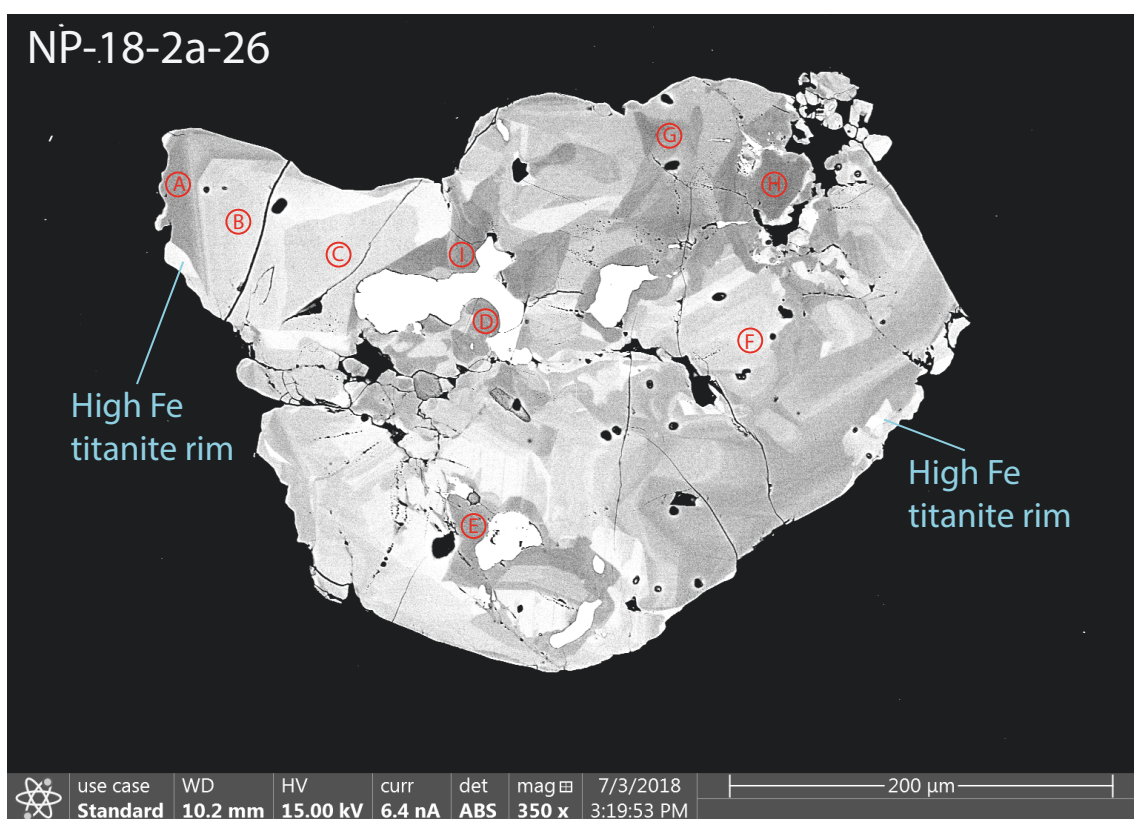
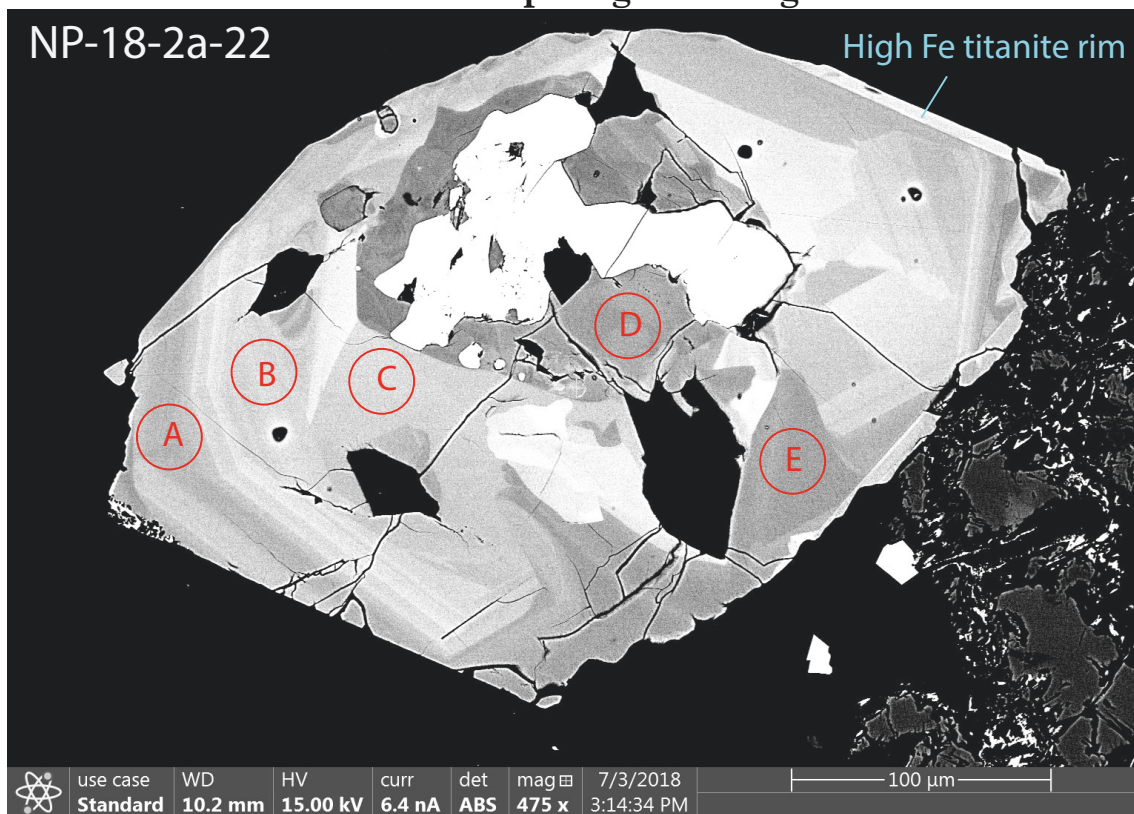


Figure A25. Notch Peak aplite grains in NP-18-2a-22 and NP-18-2a-26 with LA-ICP-MS points (red).

Notch Peak aplite grain images

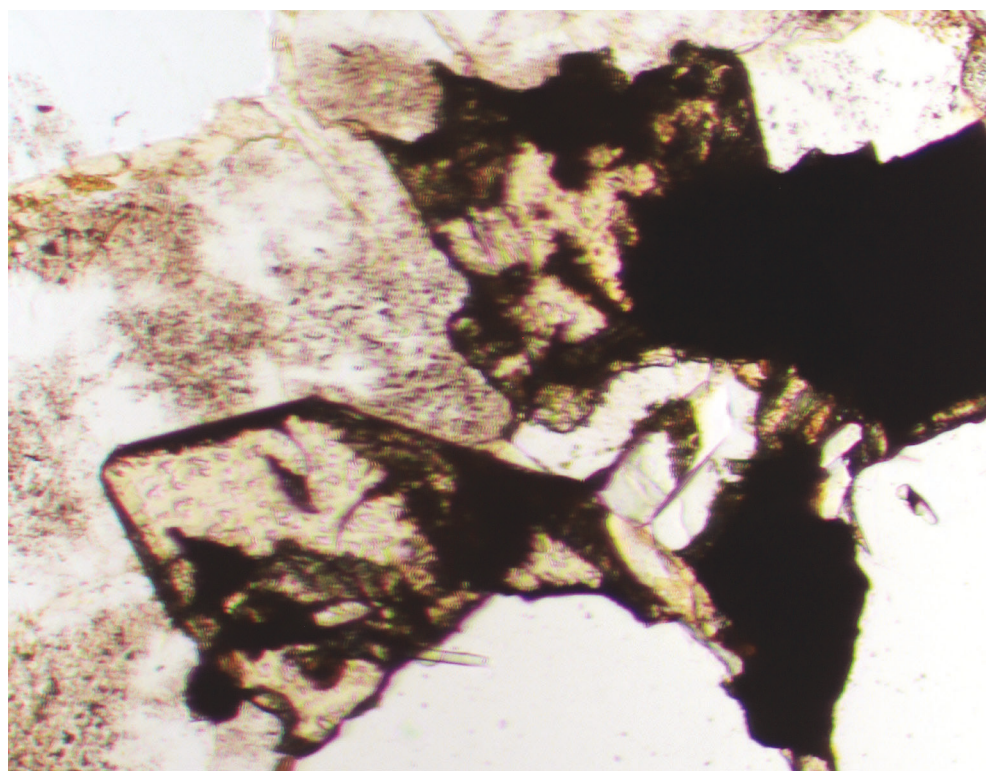
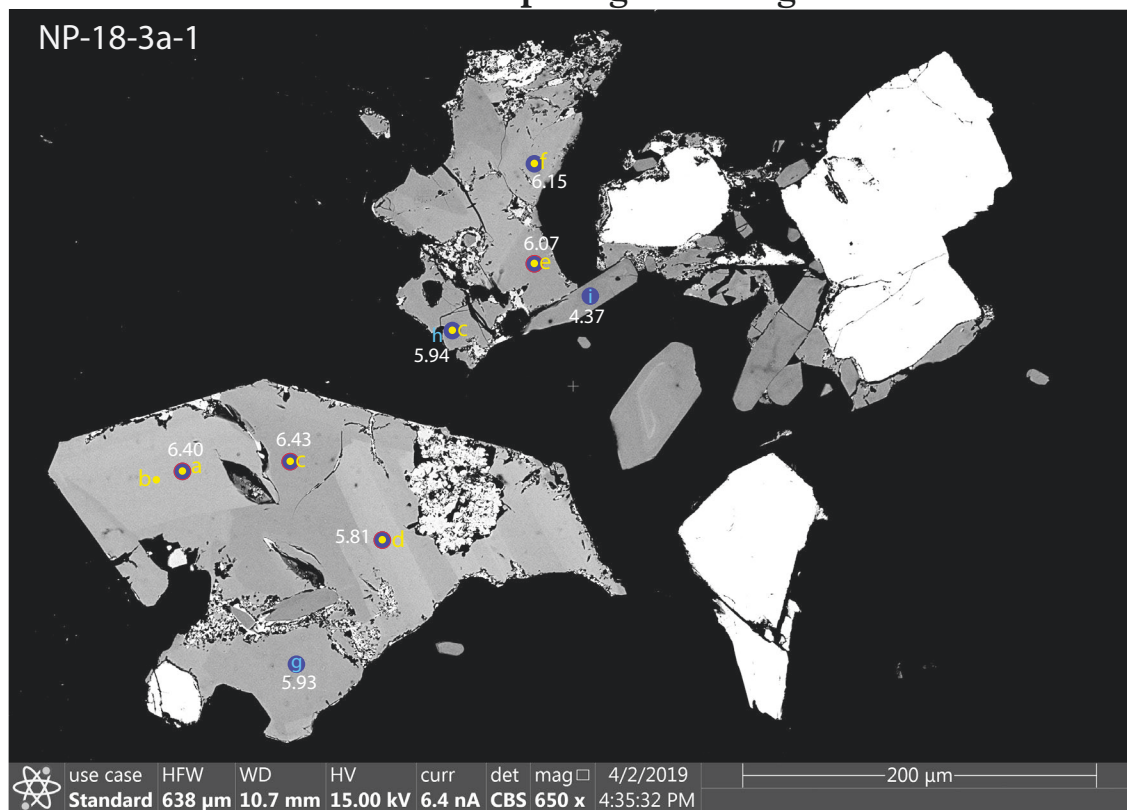


Figure A26. Notch Peak aplite grains in NP-18-3a-1. Top: BSE photo with electron microprobe points (yellow), LA-ICP-MS points (red), and oxygen isotope points (blue). Bottom: Petrographic photo of same grains. Numbers are $\delta^{18}\text{O}$ ‰ values.

Ferguson Canyon stock grain images

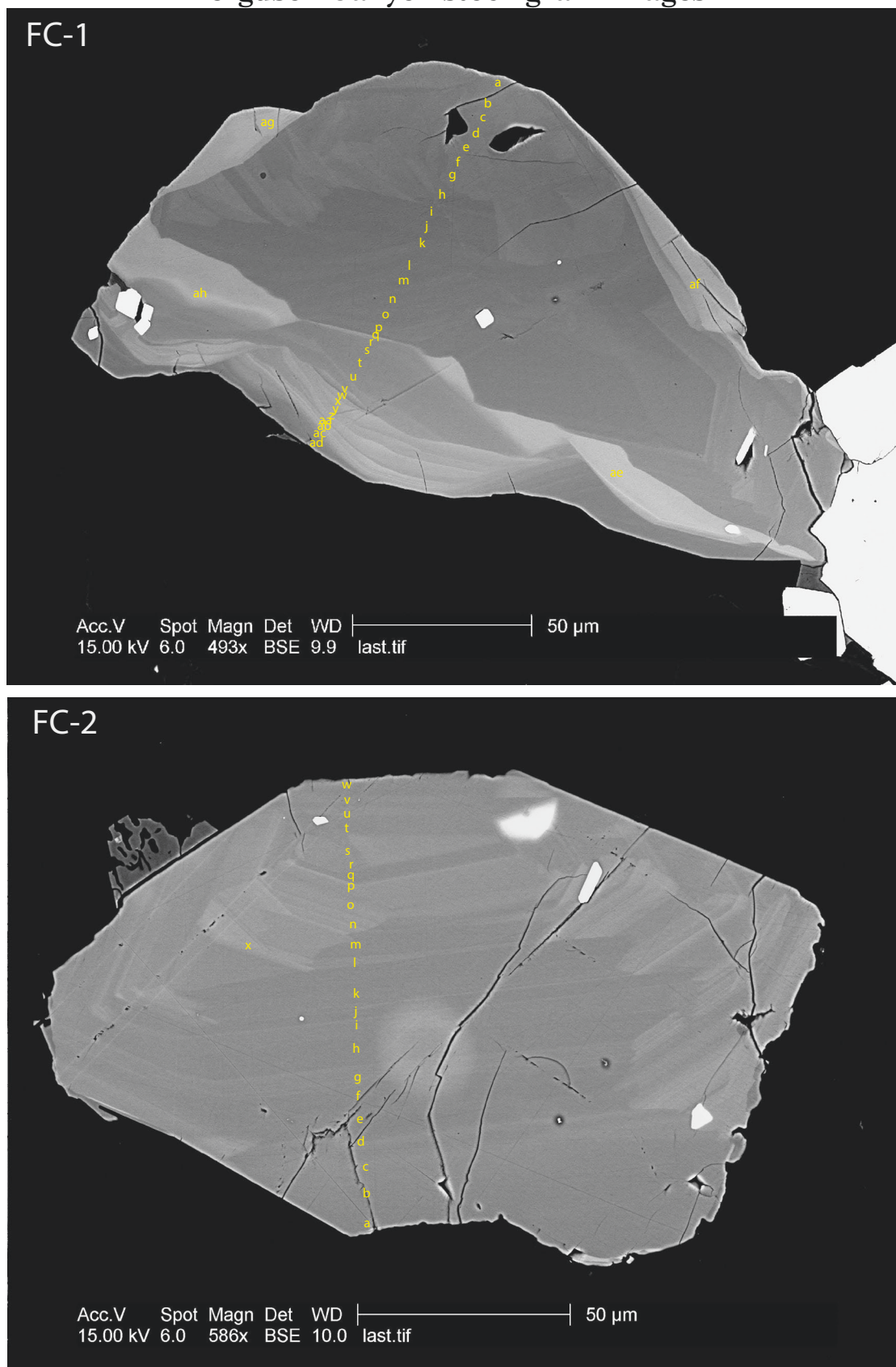


Figure A27. Ferguson Canyon titanite grains in FC-1 and FC-2 with electron microprobe spots (yellow letters).

Ferguson Canyon stock grain images

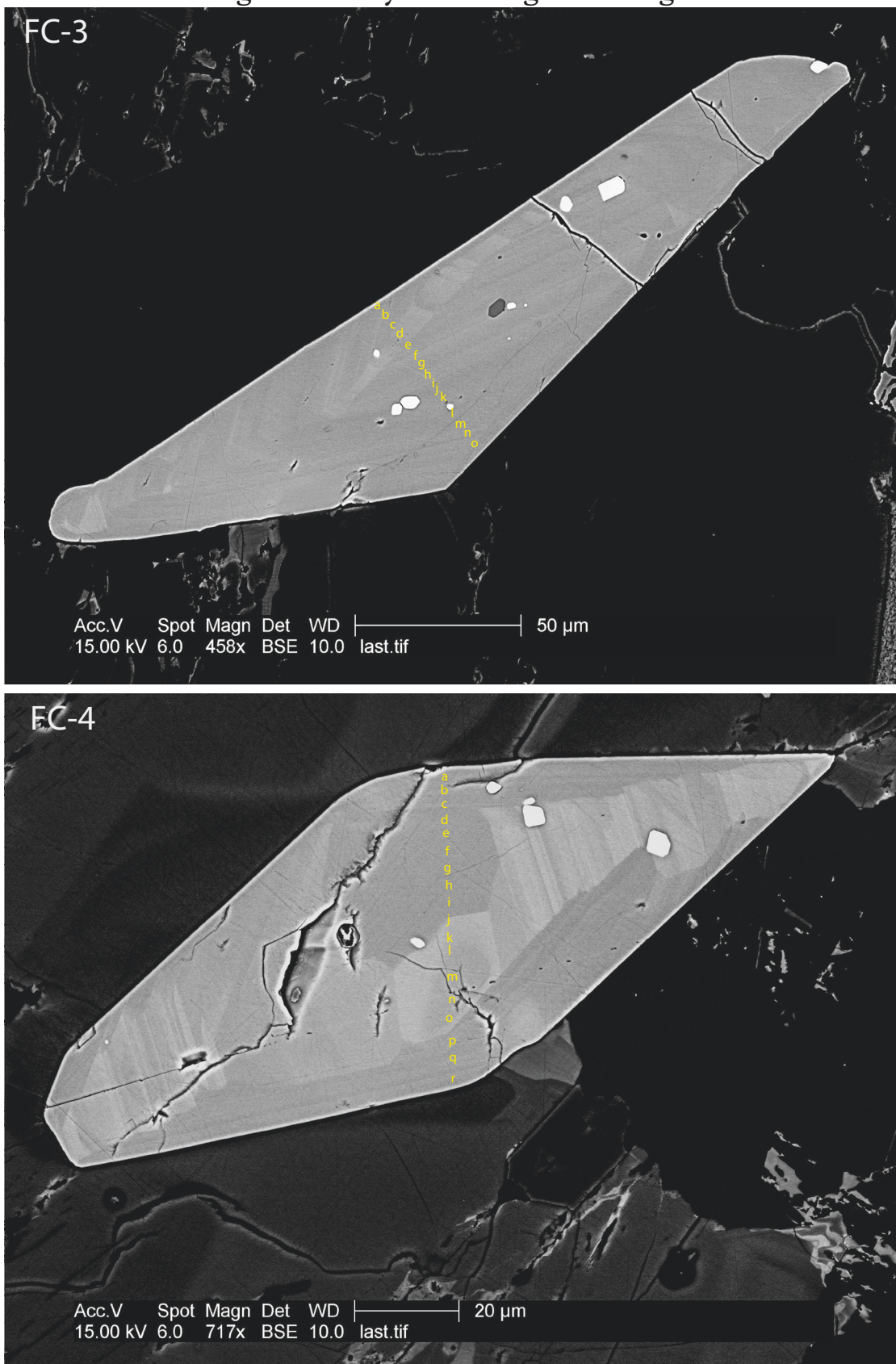


Figure A28. Ferguson Canyon titanite grains in FC-3 and FC-4 with electron microprobe spots (yellow letters).

Ferguson Canyon stock grain images

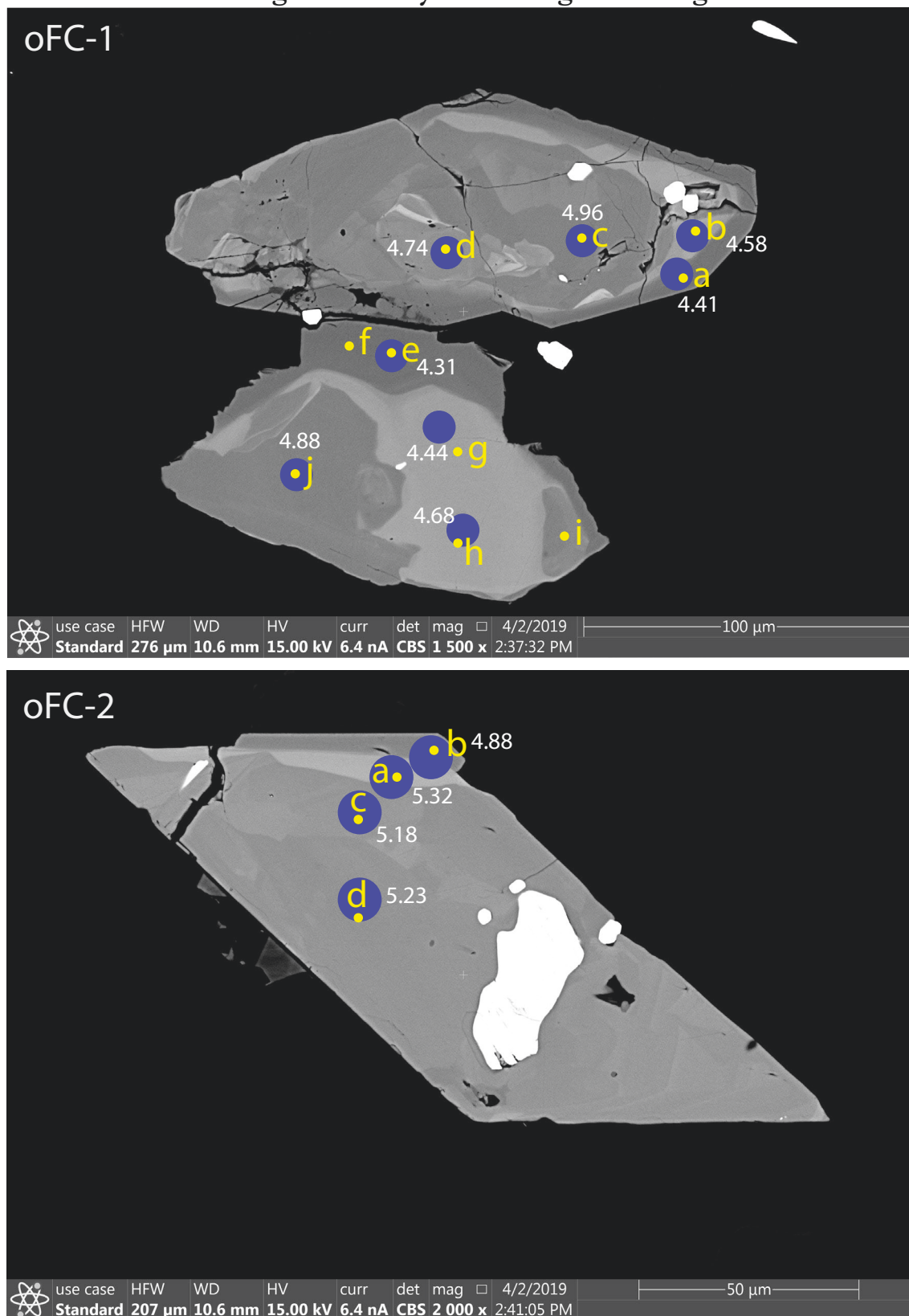


Figure A29. Ferguson Canyon titanite grains in oFC-1 and oFC-2 with oxygen isotope spots (blue) and electron microprobe spots (yellow). Numbers are $\delta^{18}\text{O}$ ‰ values.

Ferguson Canyon stock grain images

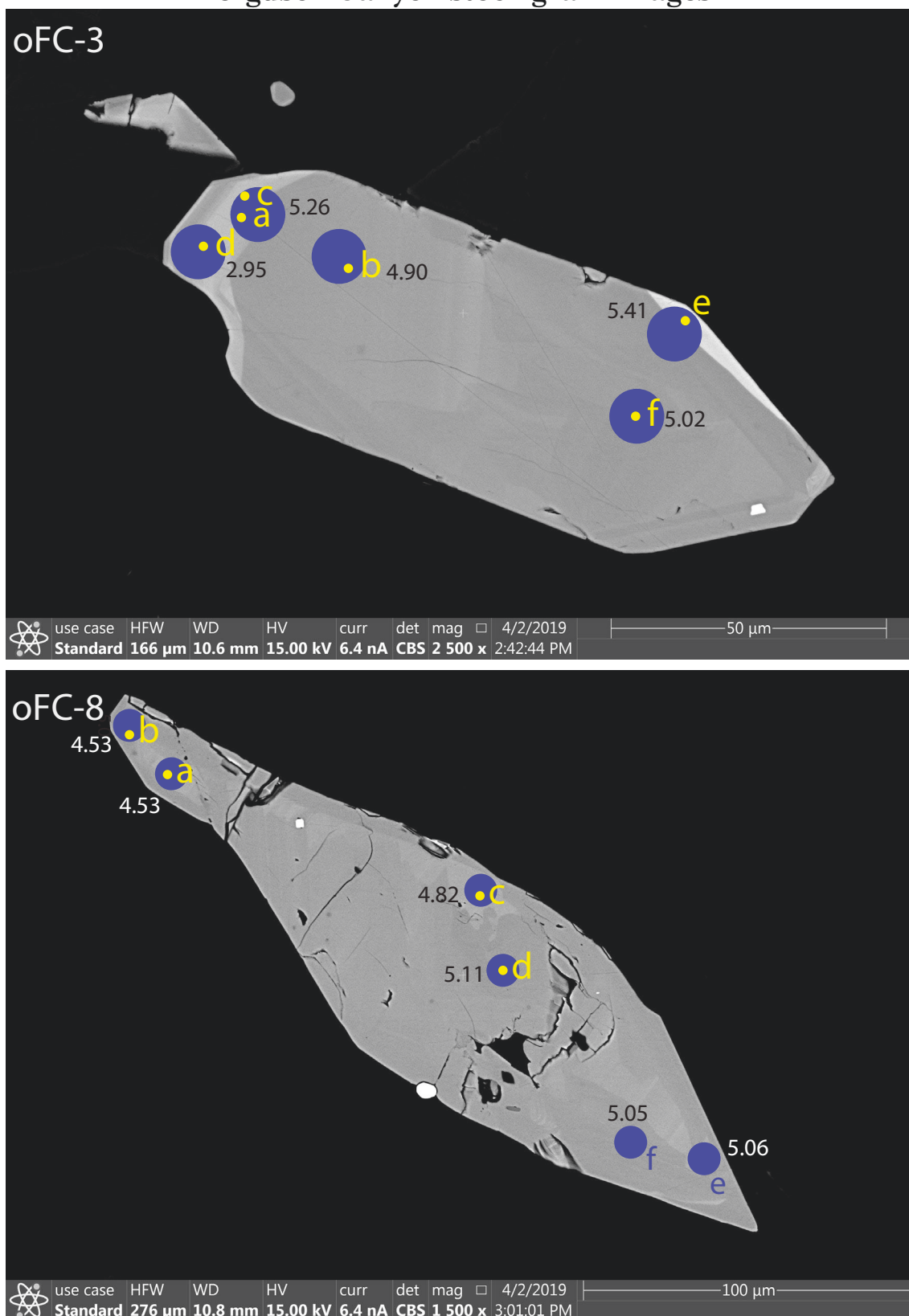


Figure A30. Ferguson Canyon titanite grains in oFC-3 and oFC-8 with oxygen isotope spots (blue) and electron microprobe spots (yellow). Numbers are $\delta^{18}\text{O}$ ‰ values.

Ferguson Canyon stock grain images

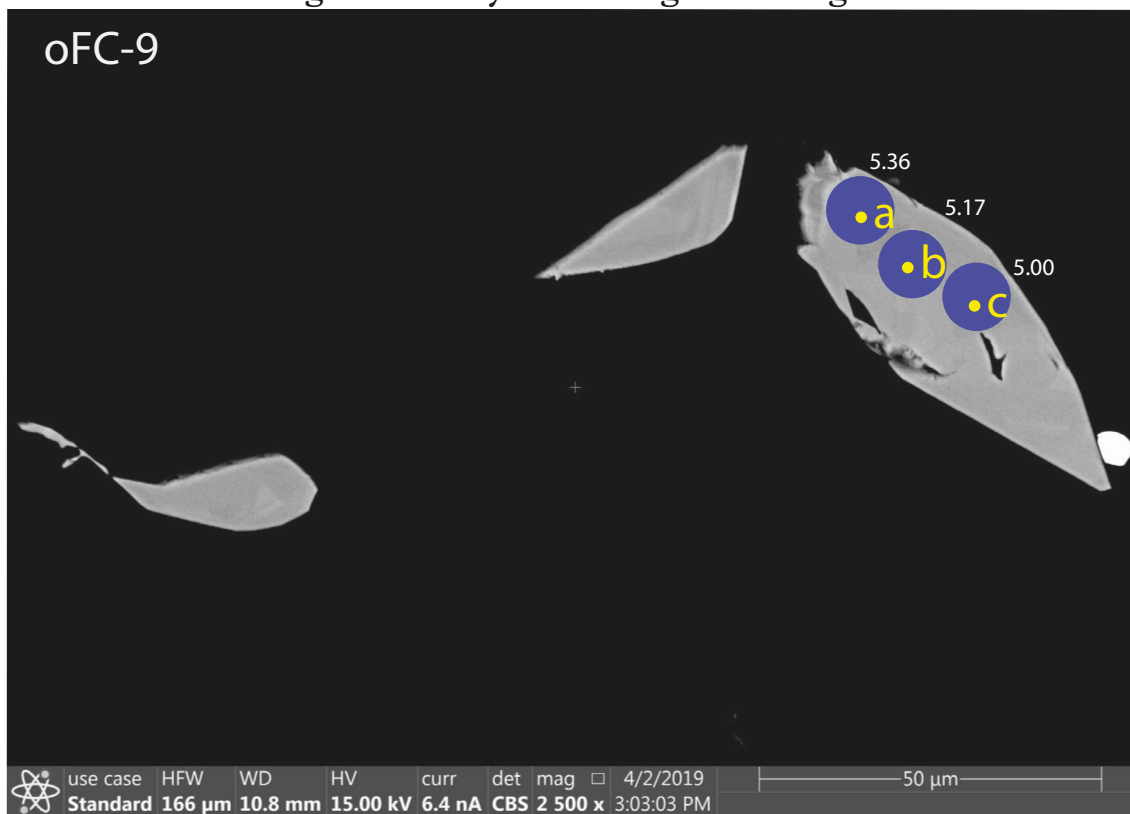


Figure A31. Ferguson Canyon titanite grains in oFC-9 with oxygen isotope spots (blue) and electron microprobe spots (yellow). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood stock grain images — Cherry Creek locality (CC)

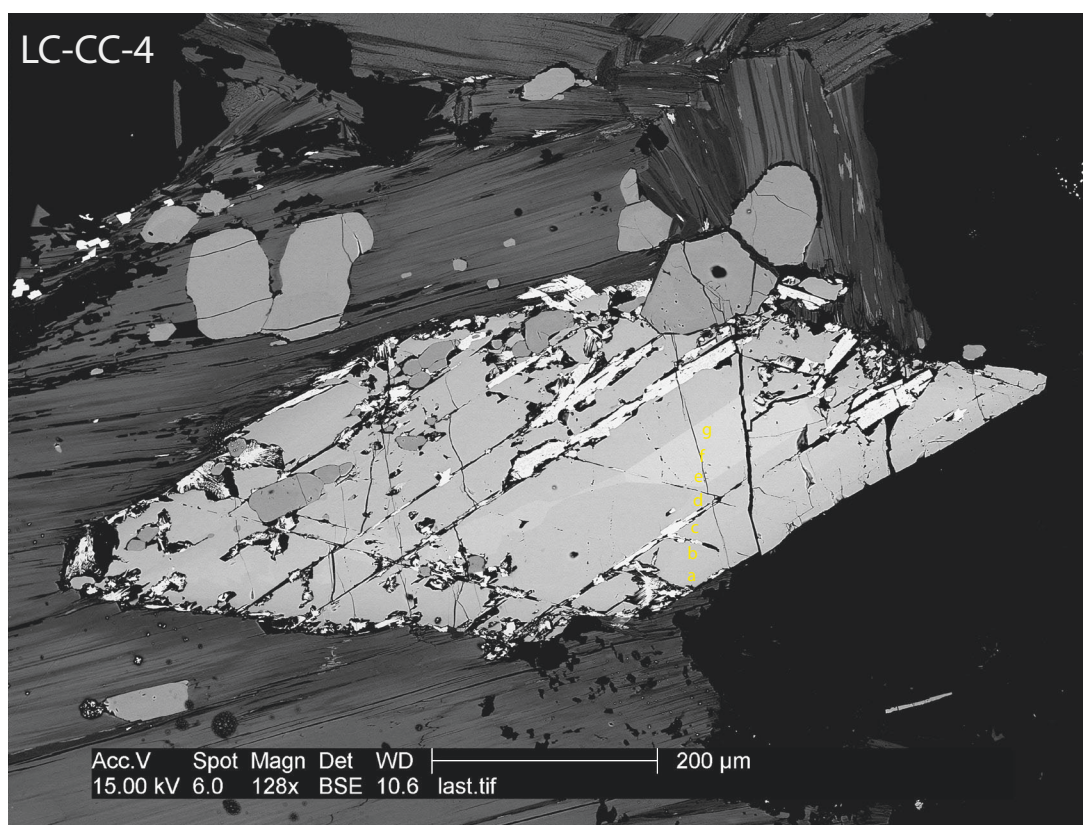
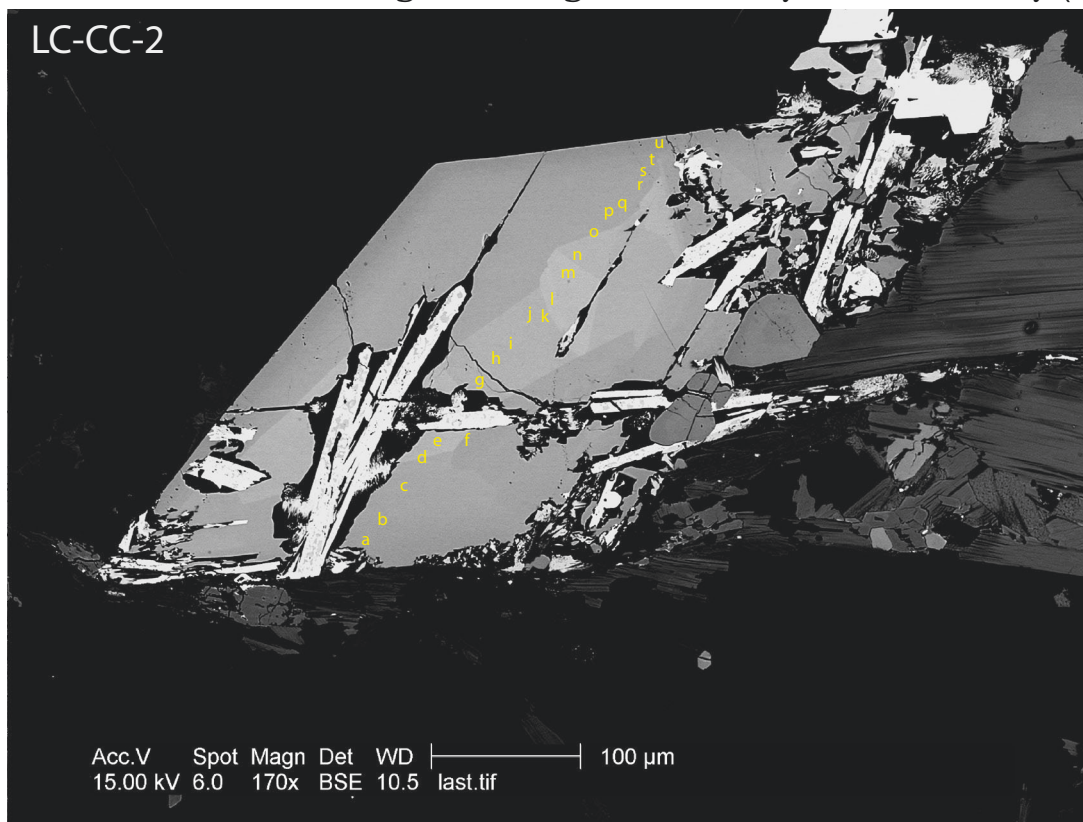


Figure A32. Little Cottonwood stock titanite grains in LC-CC-2 and LC-CC-4 with electron microprobe spots (yellow).

Little Cottonwood stock grain images — Cherry Creek locality (CC)

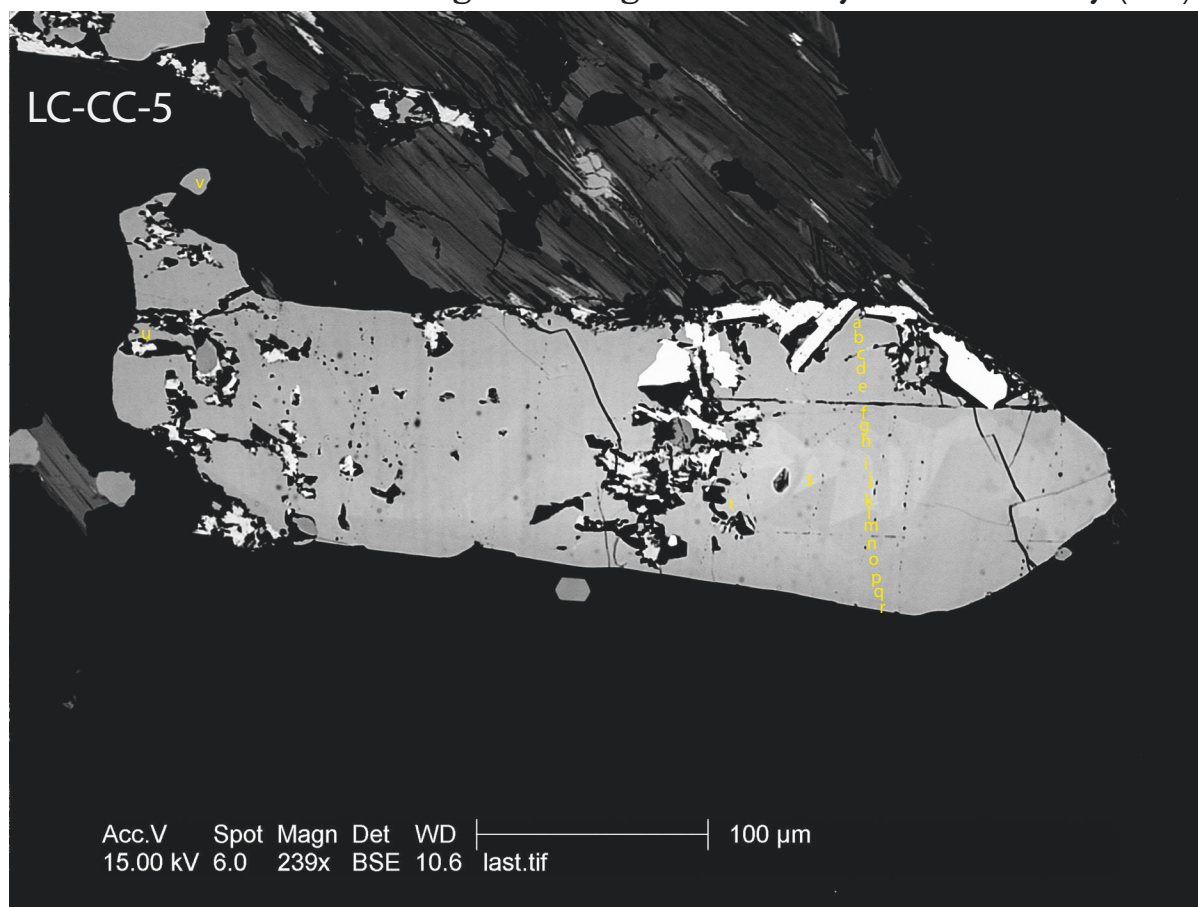


Figure A33. Little Cottonwood stock titanite grain in LC-CC-5 with electron microprobe spots (yellow).

Little Cottonwood stock grain images — Hogum Fork Turnout (HFT)

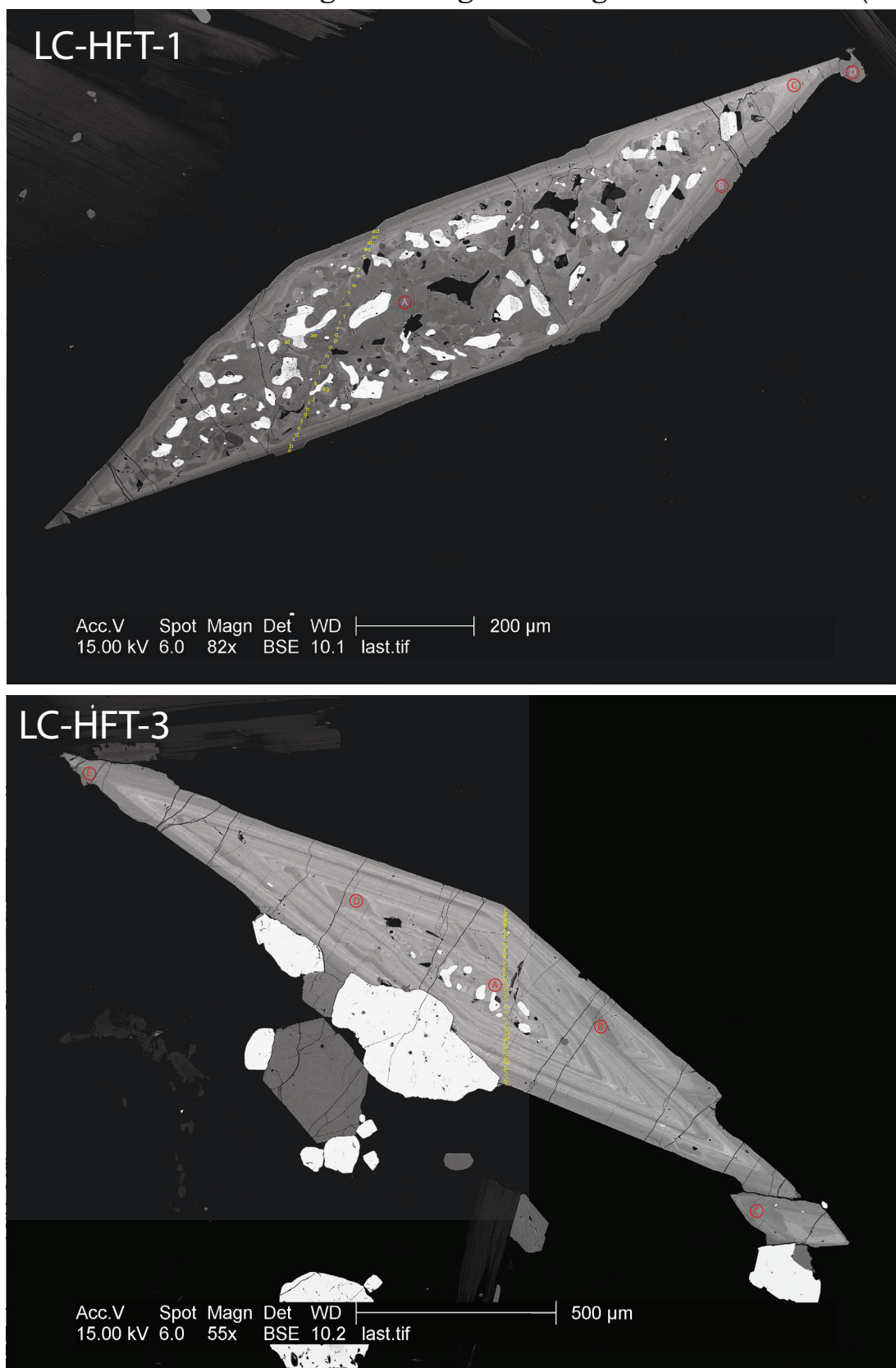


Figure A34. Little Cottonwood stock titanite grains in LC-HFT-1 and LC-HFT-2 with electron microprobe spots (yellow) and LA-ICP-MS spots (red).

Little Cottonwood stock grain images — Hogum Fork Turnout (HFT)

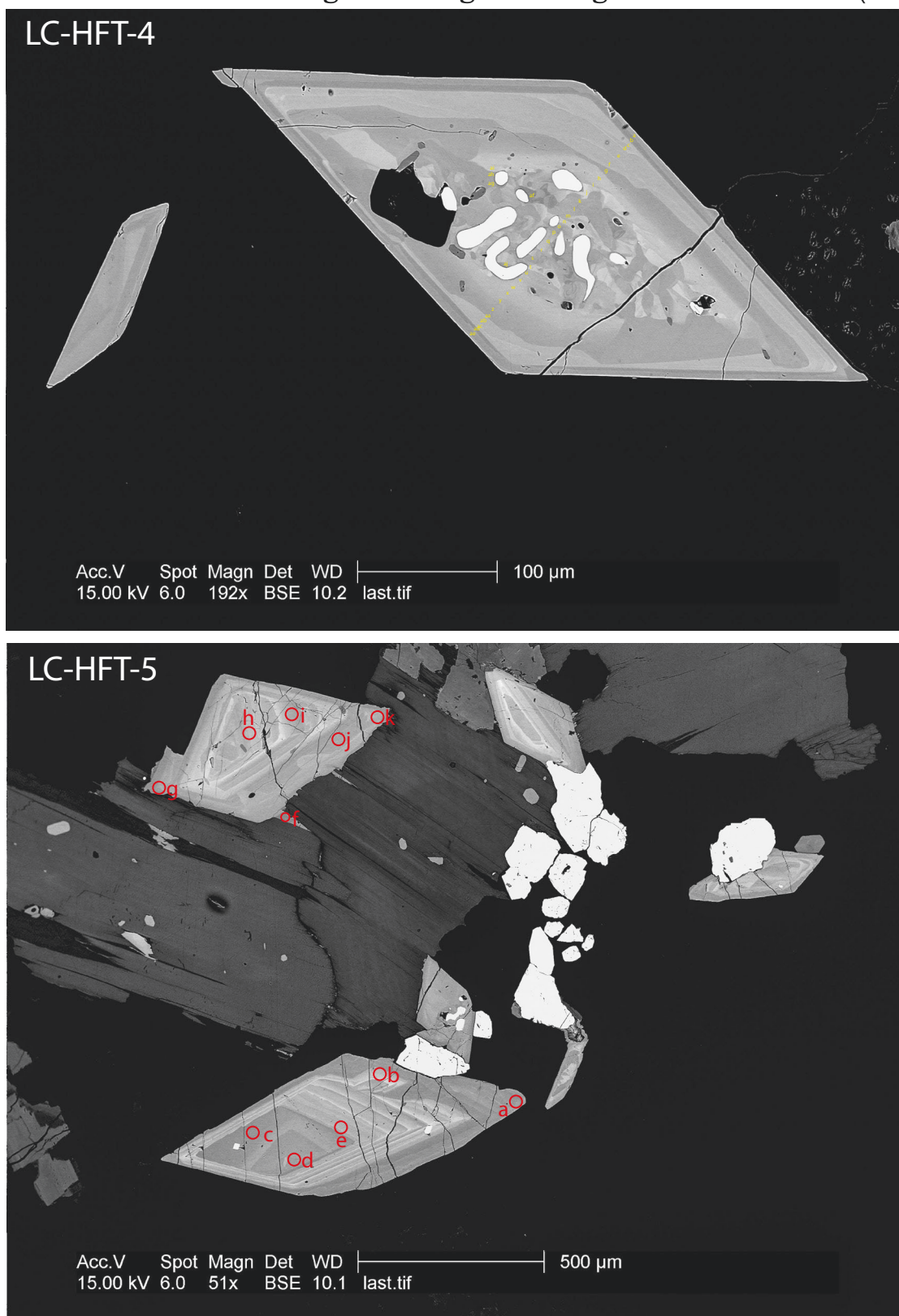


Figure A35. Little Cottonwood stock titanite grains in LC-HFT-4 and LC-HFT-5 with electron microprobe spots (yellow) and LA-ICP-MS spots (red).

Little Cottonwood stock grain images — Hogum Fork Turnout (HFT)

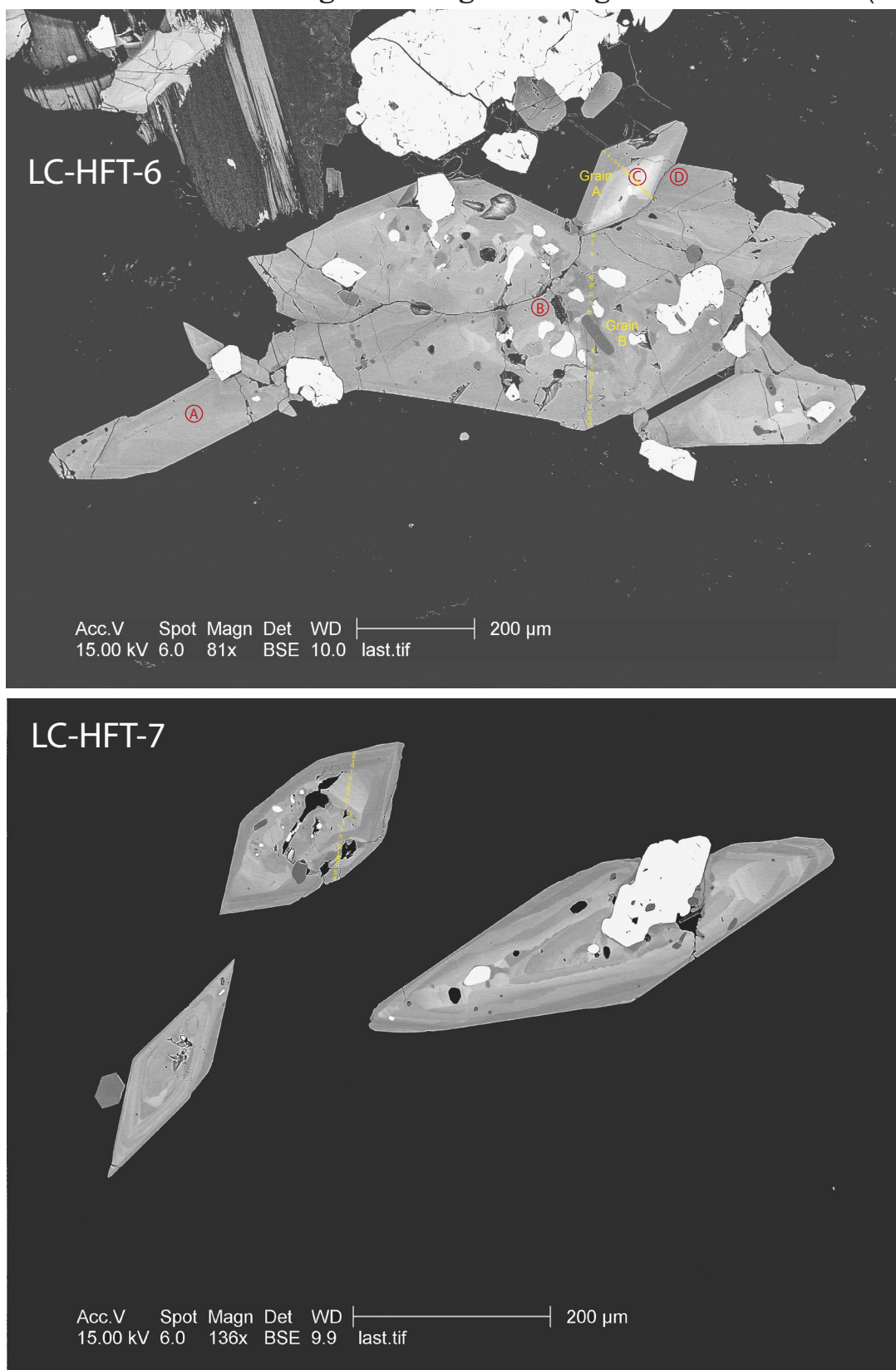


Figure A36. Little Cottonwood stock titanite grains in LC-HFT-6 and LC-HFT-7 with electron microprobe spots (yellow) and LA-ICP-MS spots (red).

Little Cottonwood stock grain images — Hogum Fork Turnout (HFT)

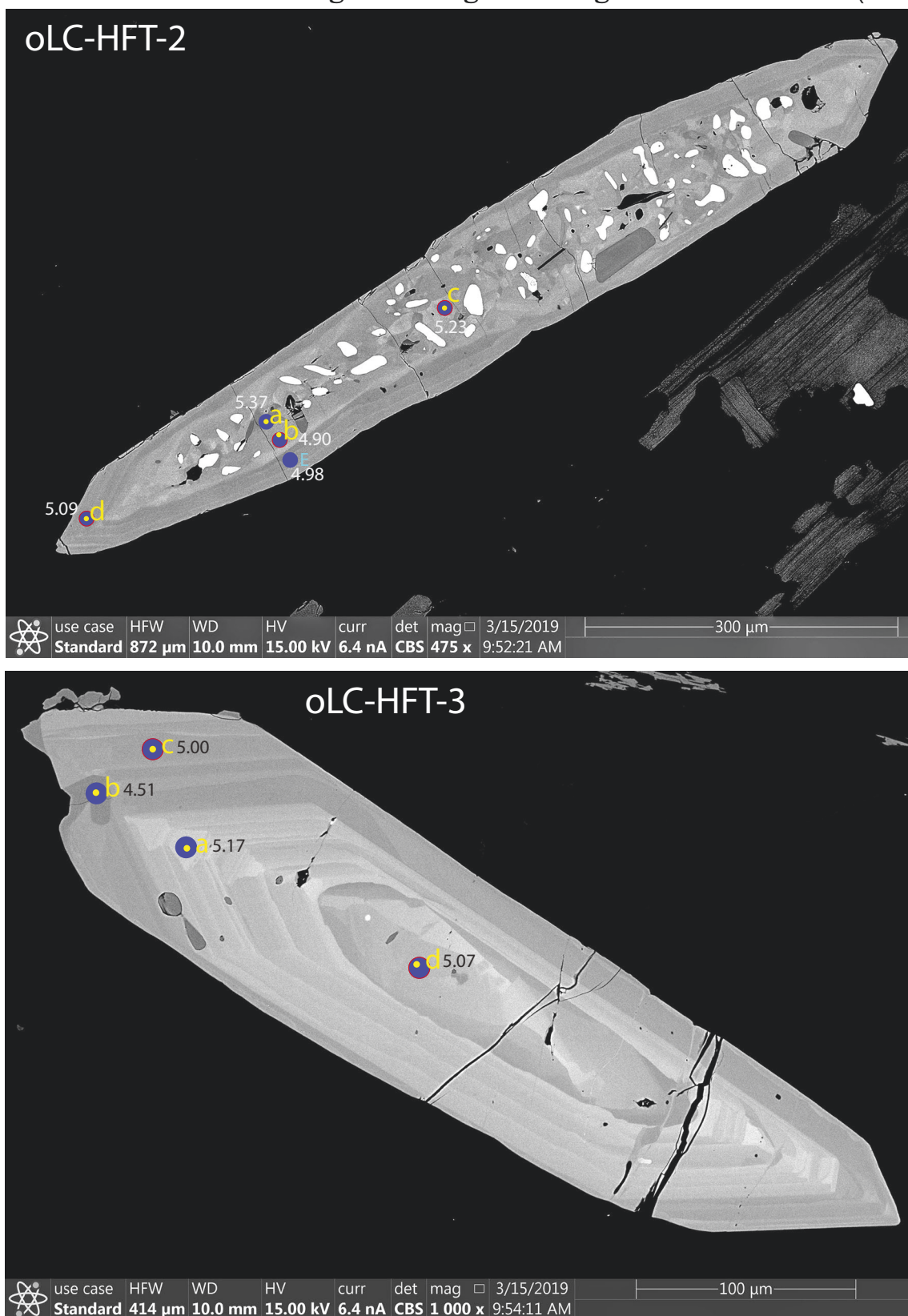


Figure A37. Little Cottonwood stock titanite grains in oLC-HFT-2 and oLC-HFT-3 with electron microprobe spots (yellow), LA-ICP-MS spots (red), and oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood stock grain images — Hogum Fork Turnout (HFT)

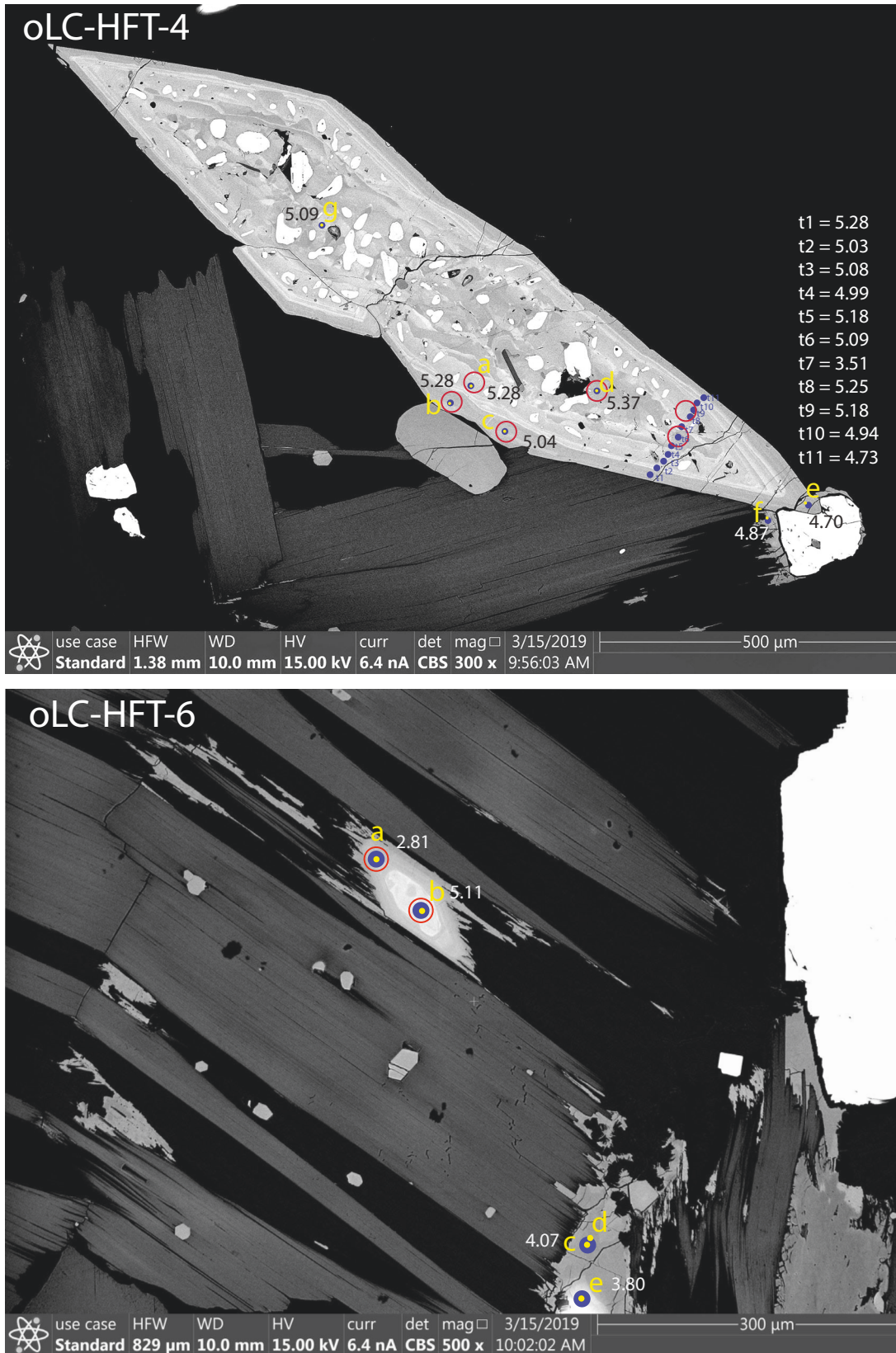


Figure A38. Little Cottonwood stock titanite grains in oLC-HFT-4 and oLC-HFT-6 with electron microprobe spots (yellow), LA-ICP-MS spots (red), and oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood stock grain images — Hogum Fork Turnout (HFT)

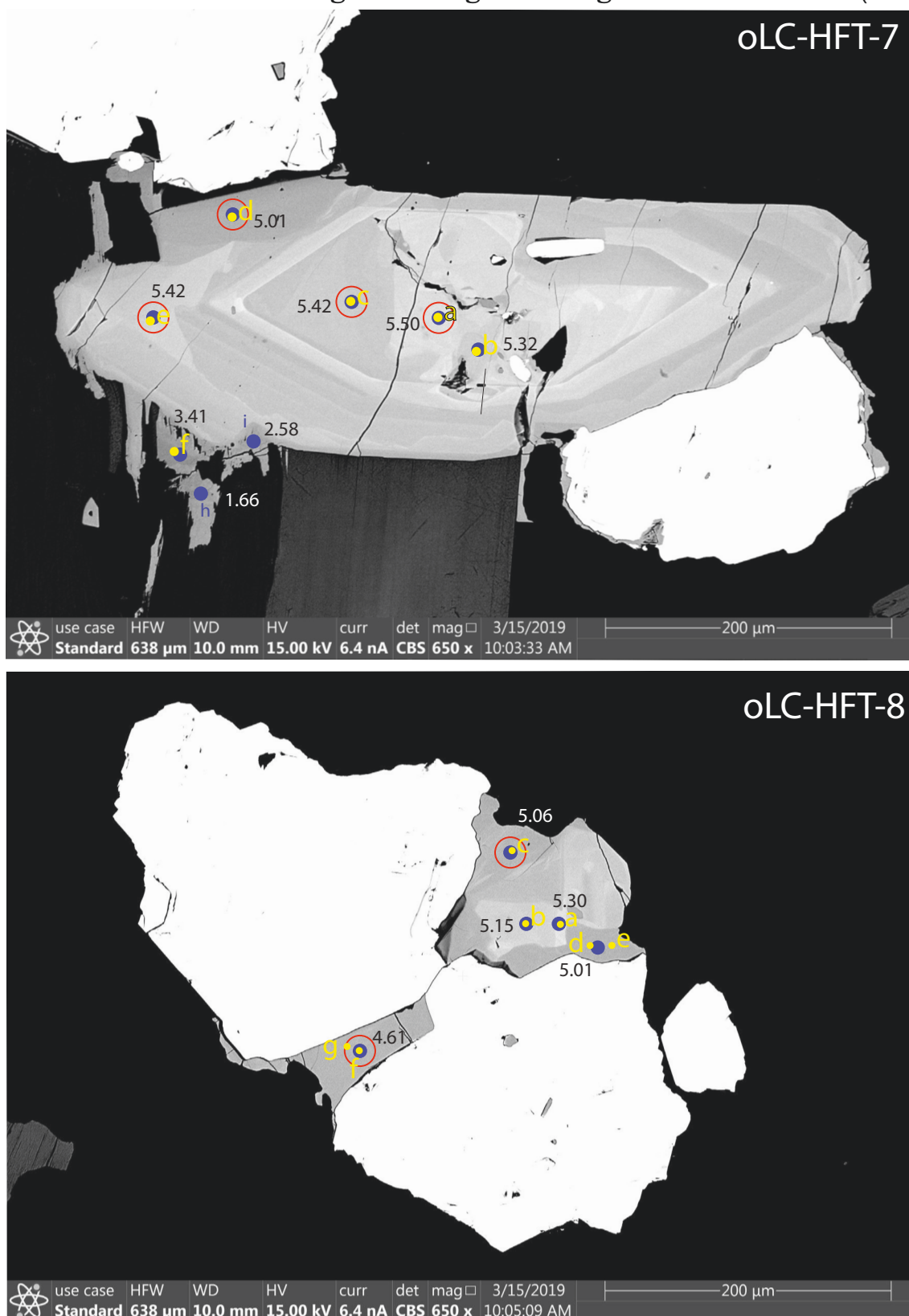


Figure A39. Little Cottonwood stock titanite grains in oLC-HFT-7 and oLC-HFT-8 with electron microprobe spots (yellow), LA-ICP-MS spots (red), and oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood stock grain images — Snowbird locality (SB)

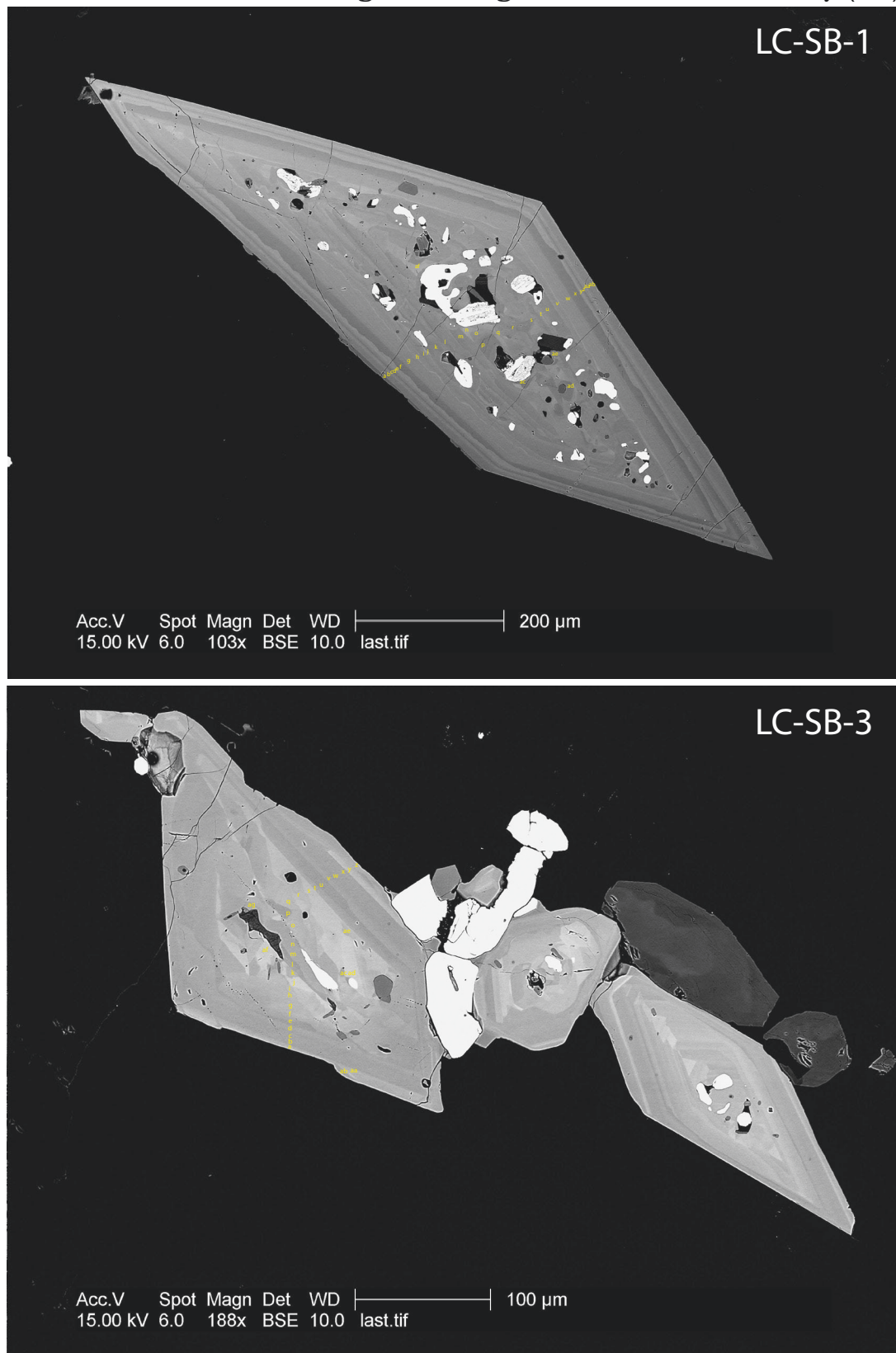


Figure A40. Little Cottonwood stock titanite grains in LC-SB-1 and LC-SB-3 with electron microprobe spots (yellow).

Little Cottonwood stock grain images — Snowbird locality (SB)

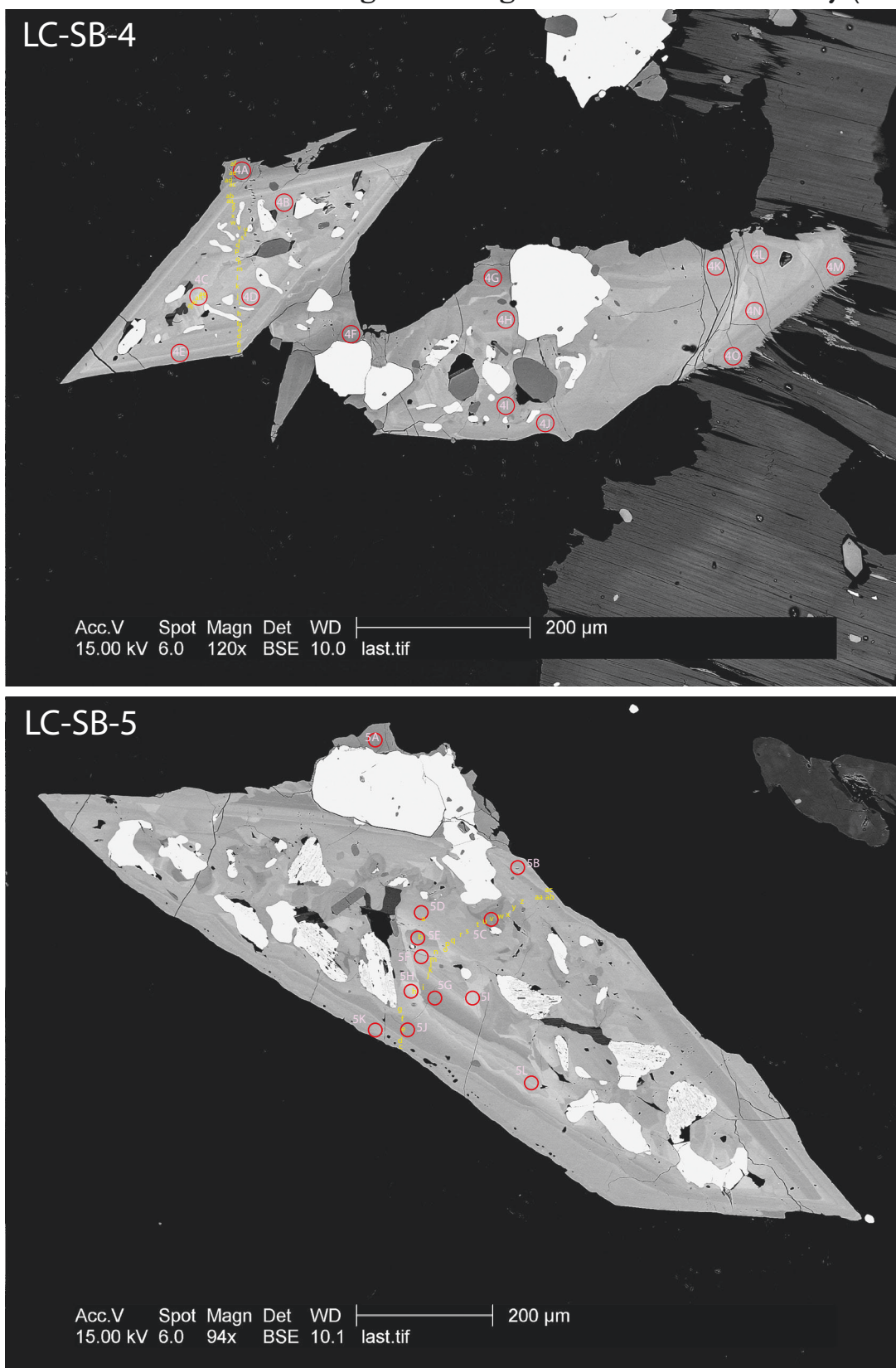


Figure A41. Little Cottonwood stock titanite grains in LC-SB-4 and LC-SB-5 with electron microprobe spots (yellow) and LA-ICP-MS spots (red).

Little Cottonwood stock grain images — Snowbird locality (SB)

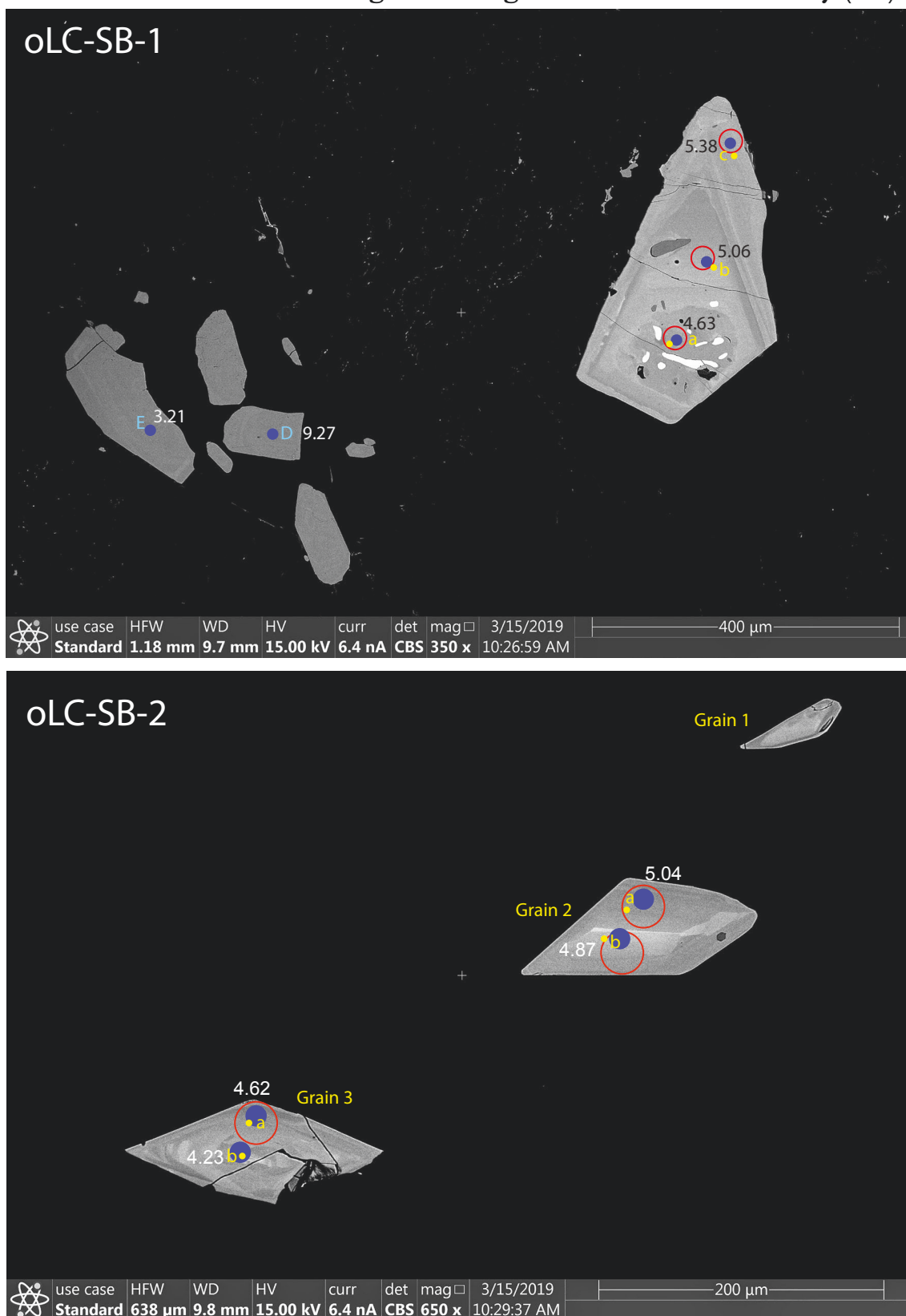


Figure A42. Little Cottonwood stock titanite grains in oLC-SB-1 and oLC-SB-2 with electron microprobe spots (yellow), LA-ICP-MS spots (red), and oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood stock grain images — Snowbird locality (SB)

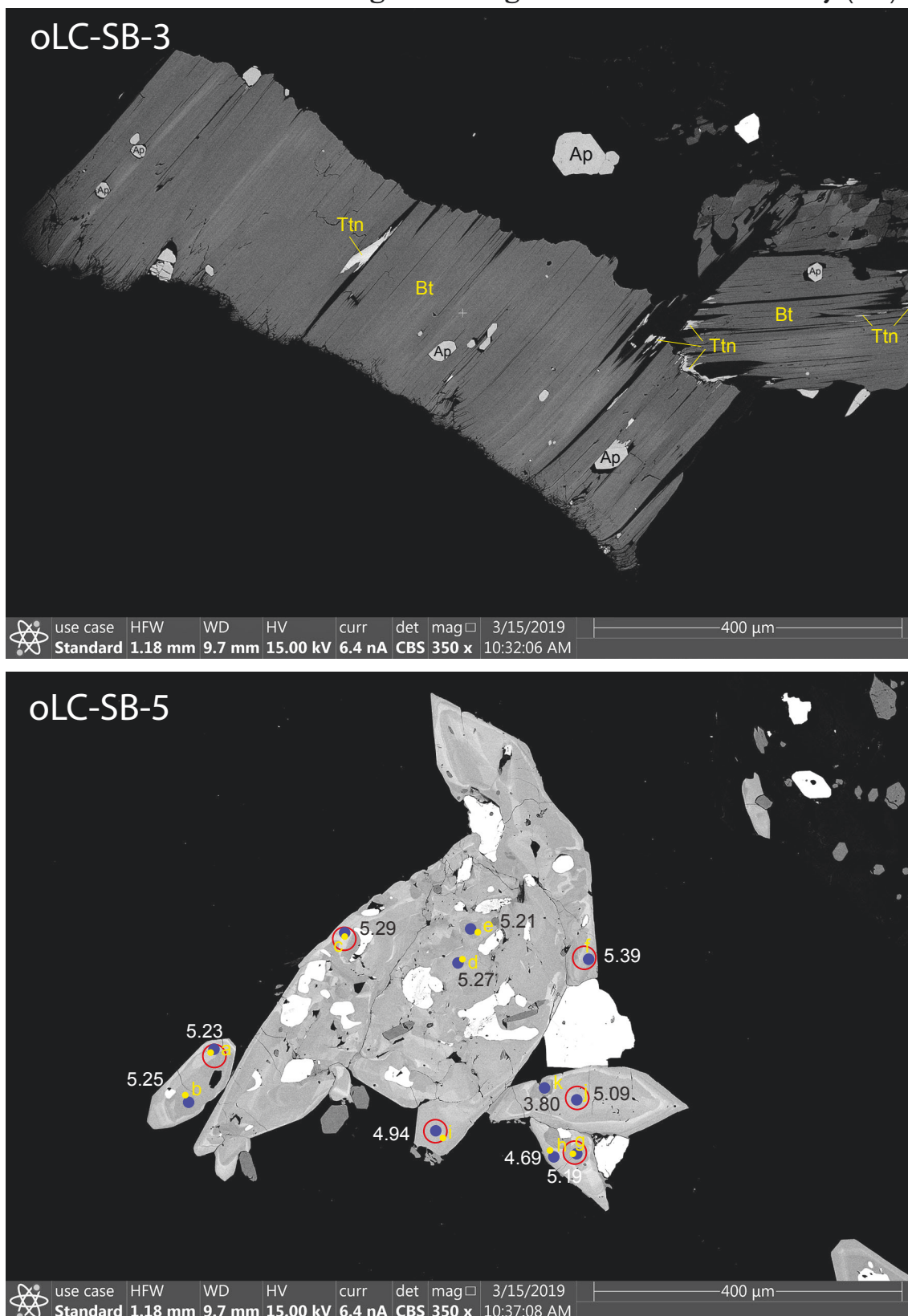


Figure A43. Little Cottonwood stock titanite grains in oLC-SB-3 and oLC-SB-5 with electron microprobe spots (yellow), LA-ICP-MS spots (red), and oxygen isotope spots (blue). In top photo, titanite (Ttn), apatite (Ap), biotite (Bt). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood stock grain images — Snowbird locality (SB)

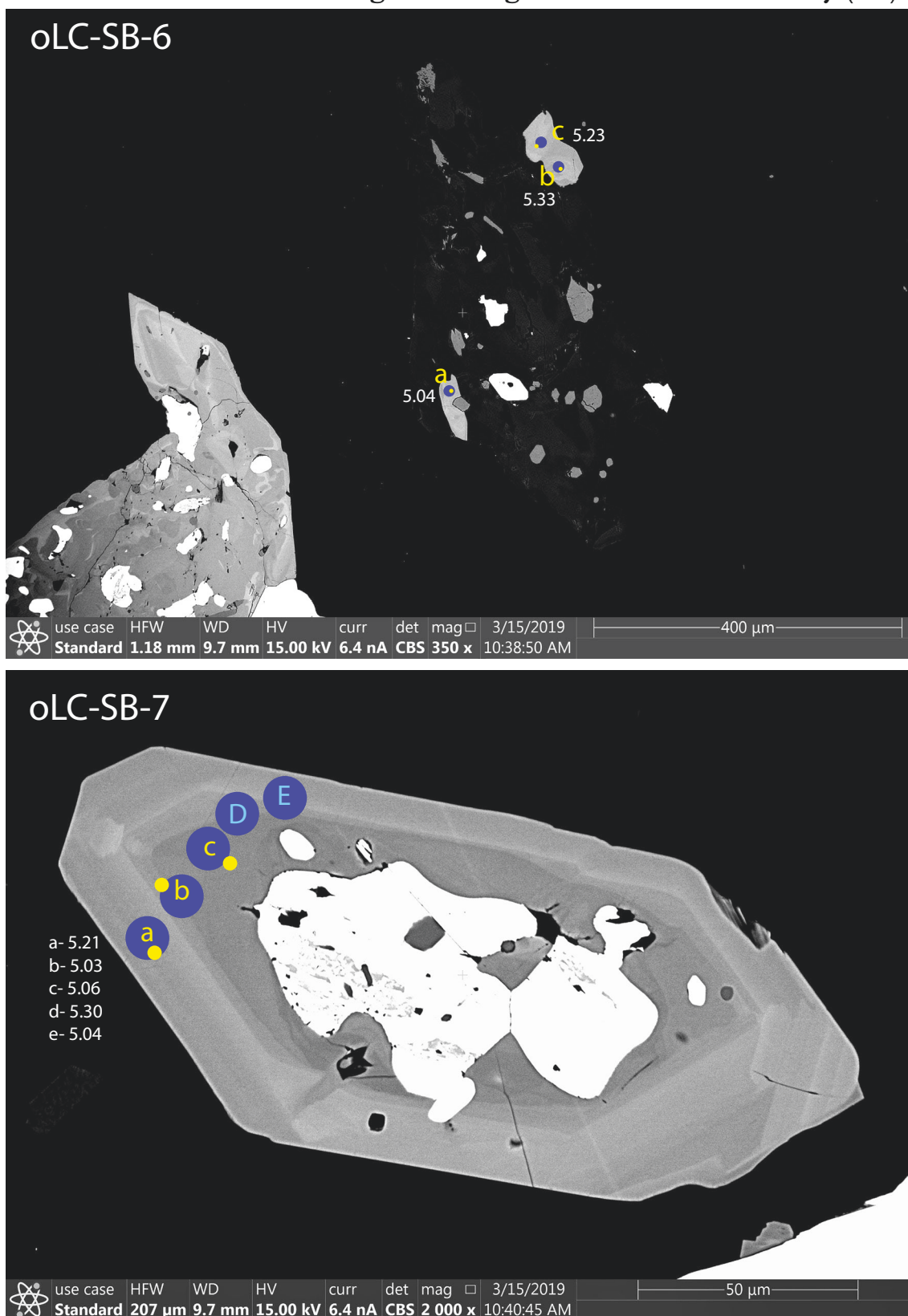


Figure A44. Little Cottonwood stock titanite grains in oLC-SB-6 and oLC-SB-7 with electron microprobe spots (yellow) and oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood stock grain images — Silver Lake locality (SL)

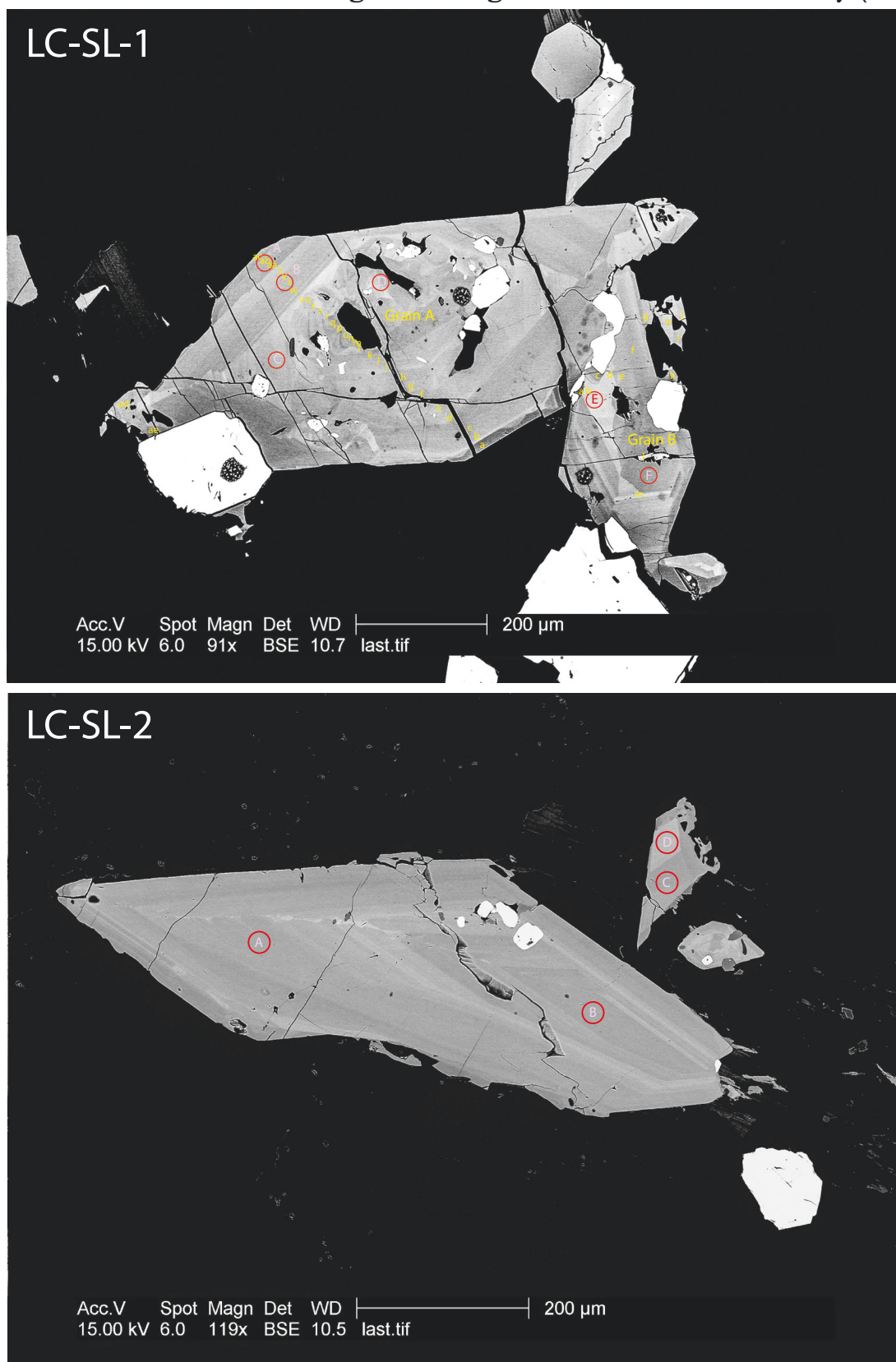


Figure A45. Little Cottonwood stock titanite grains in LC-SL-1 and LC-SL-2 with electron microprobe spots (yellow) and LA-ICP-MS spots (red).

Little Cottonwood stock grain images — Silver Lake locality (SL)

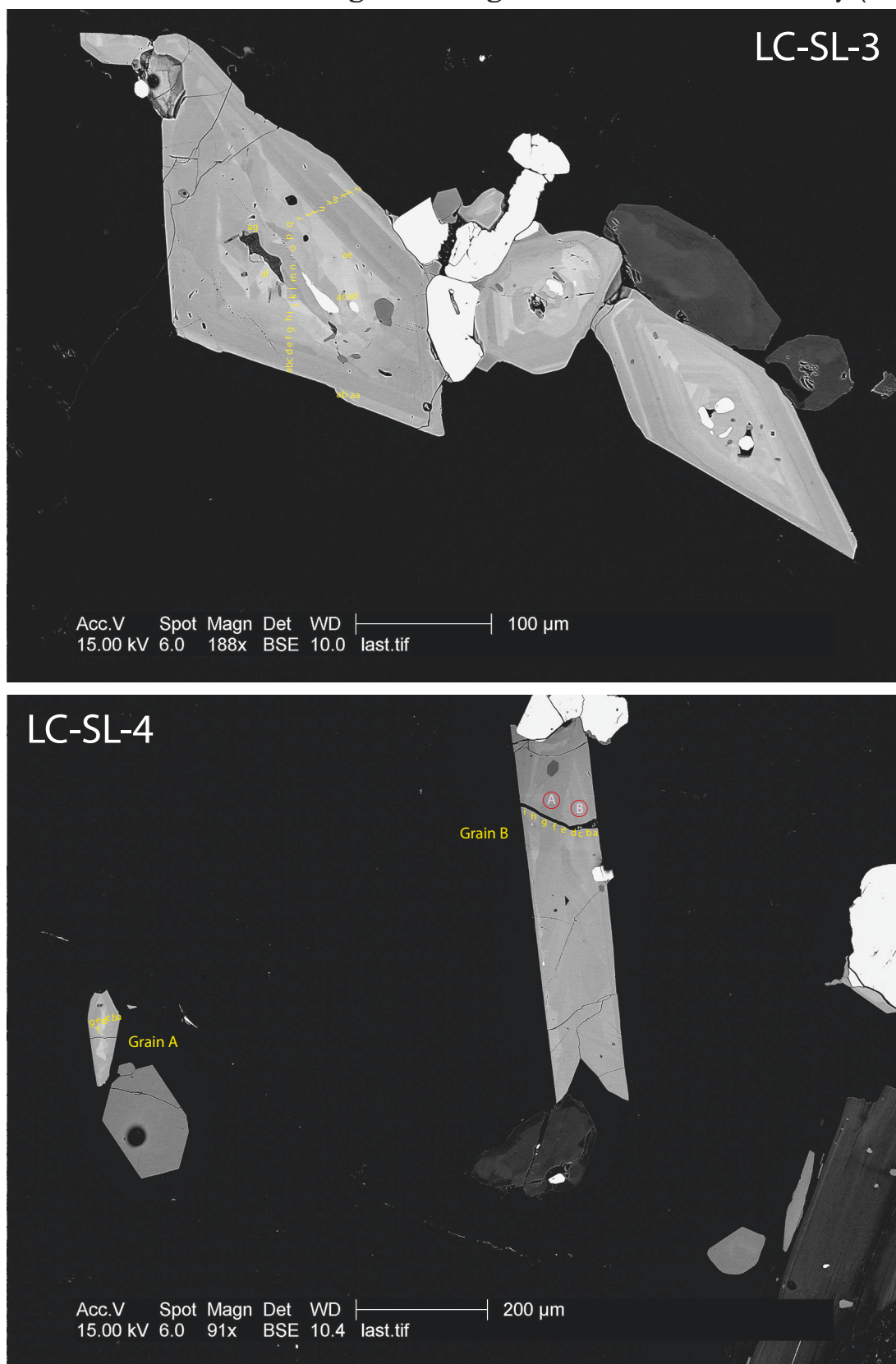


Figure A46. Little Cottonwood stock titanite grains in LC-SL-3 and LC-SL-4 with electron microprobe spots (yellow) and LA-ICP-MS spots (red).

Little Cottonwood stock grain images — Silver Lake locality (SL)

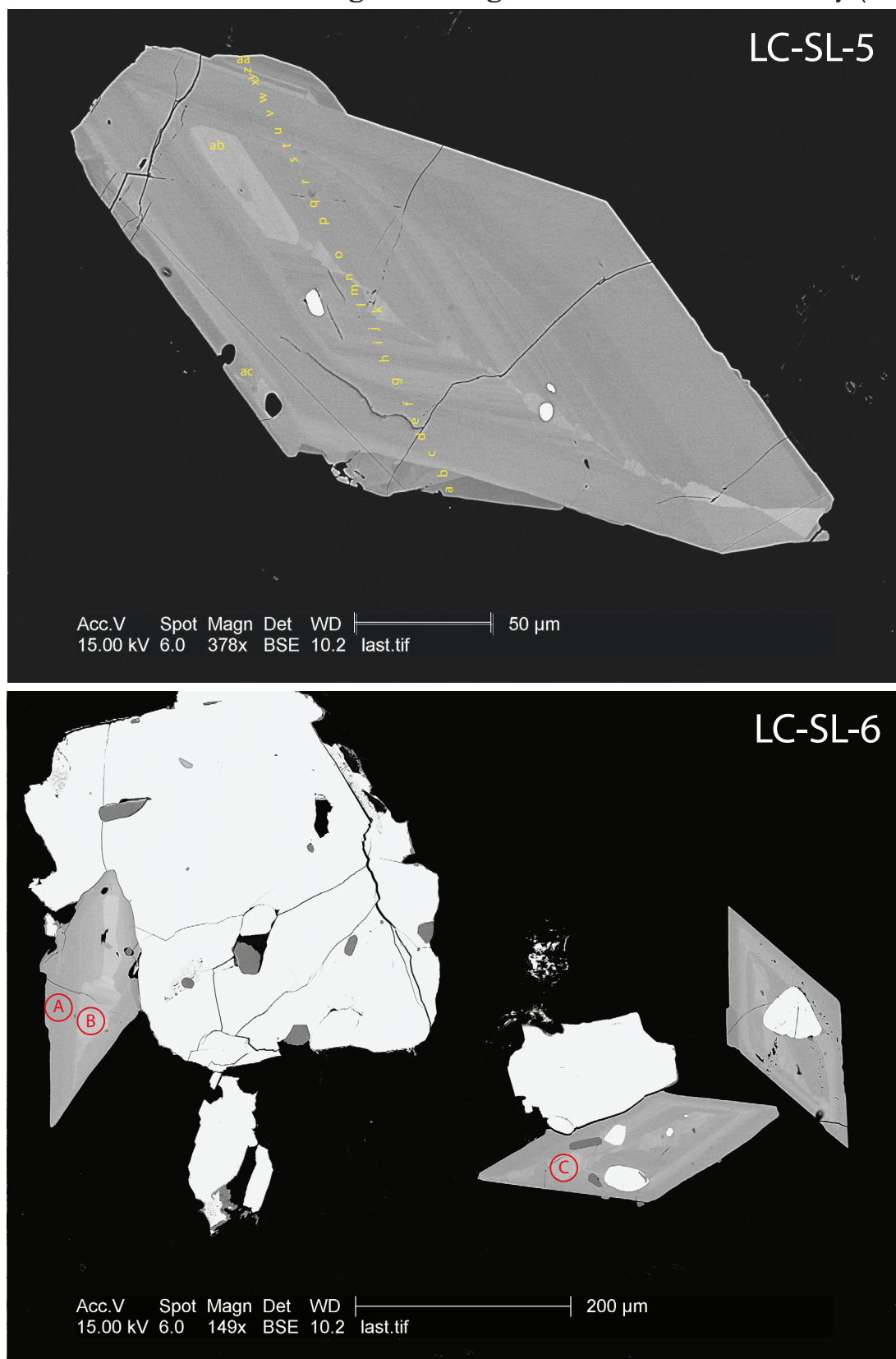


Figure A47. Little Cottonwood stock titanite grains in LC-SL-5 and LC-SL-6 with electron microprobe spots (yellow) and LA-ICP-MS spots (red).

Little Cottonwood stock grain images — Temple Quarry locality (TQ)

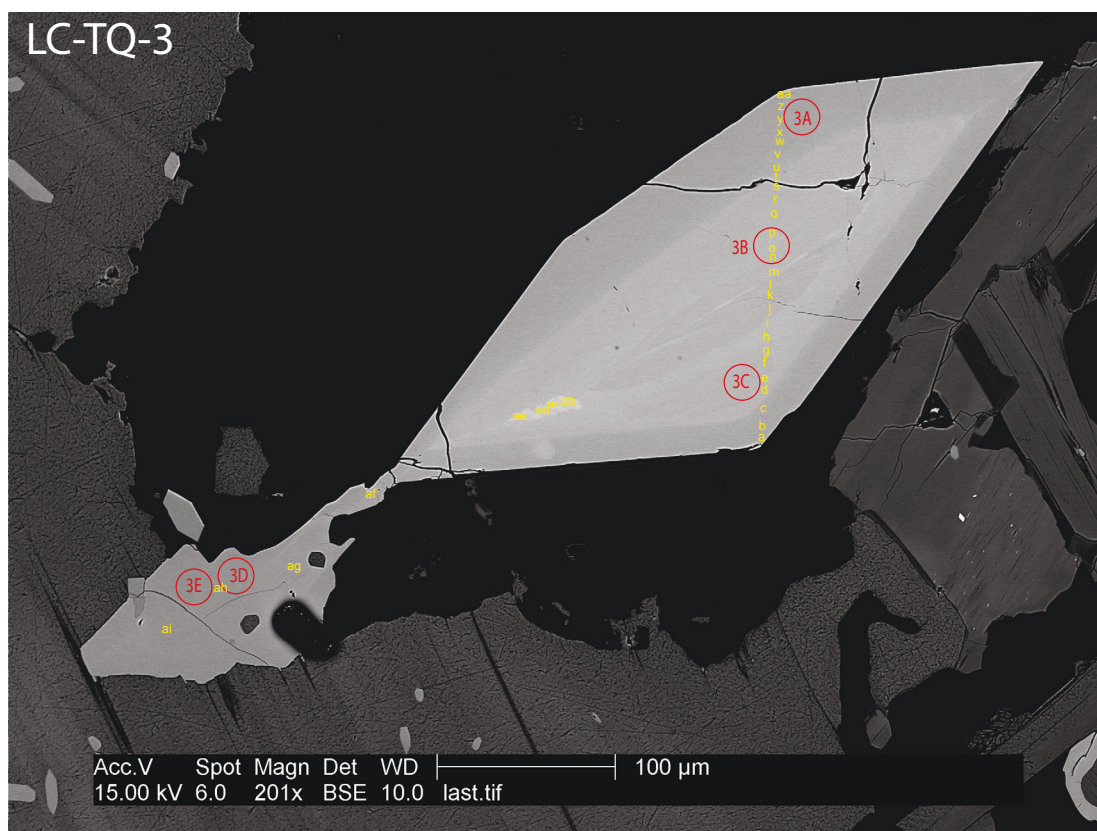
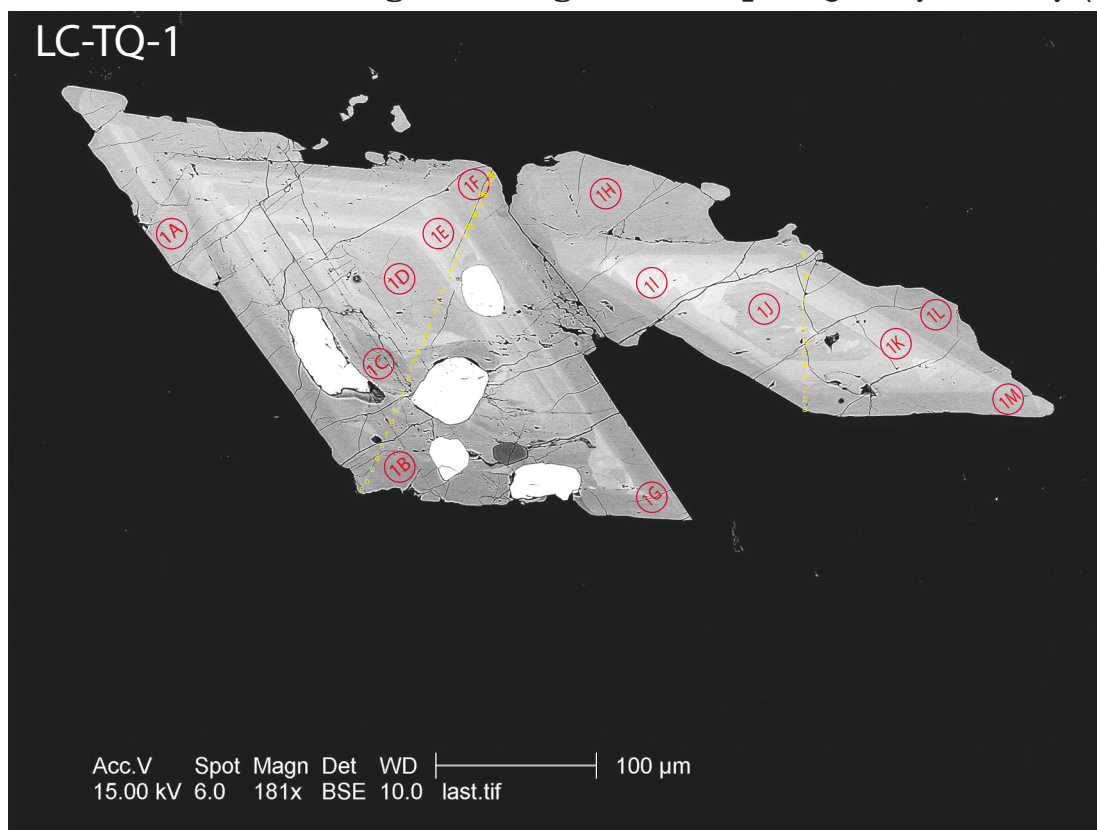


Figure A48. Little Cottonwood stock titanite grains in LC-TQ-1 and LC-TQ-3 with electron microprobe spots (yellow) and LA-ICP-MS spots (red).

Little Cottonwood stock grain images — Temple Quarry locality (TQ)

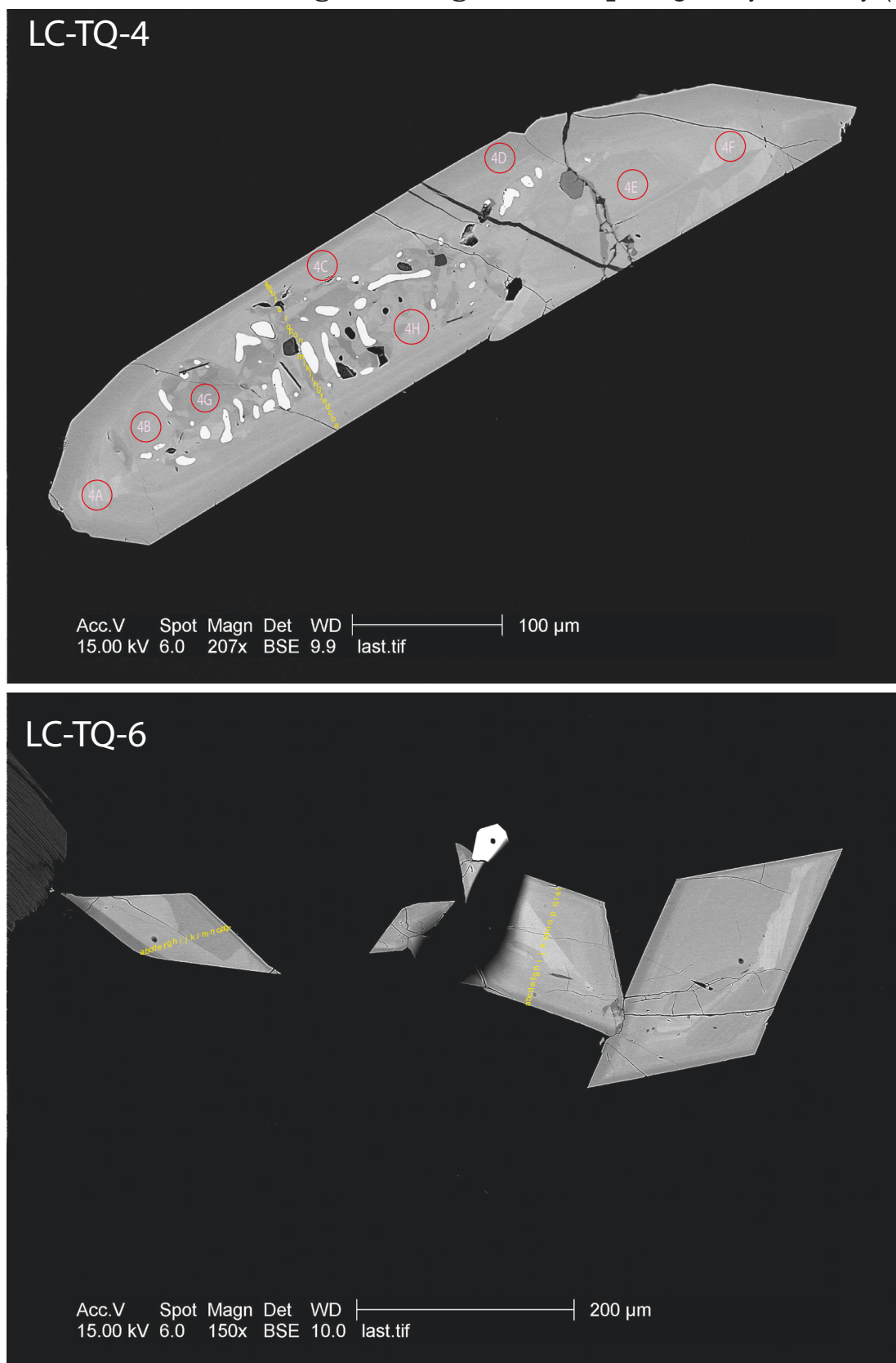


Figure A49. Little Cottonwood stock titanite grains in LC-TQ-4 and LC-TQ-6 with electron microprobe spots (yellow) and LA-ICP-MS spots (red).

Little Cottonwood stock grain images — LC-23 locality

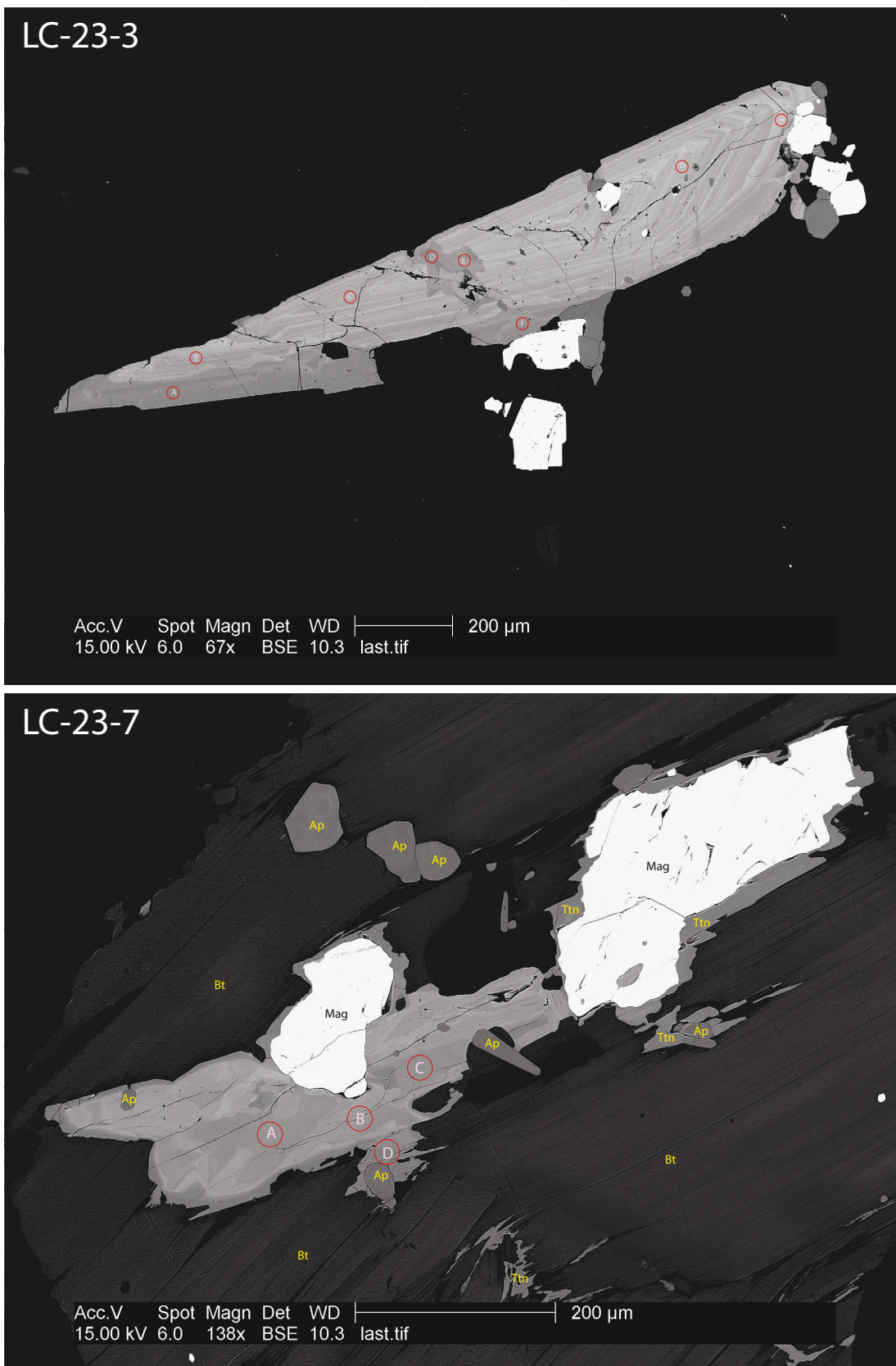


Figure A50. Little Cottonwood stock titanite grains in LC-23-3 and LC-23-7 with LA-ICP-MS spots (red). In lower photo, titanite (Ttn), biotite (Bt), apatite (Ap), and magnetite (Mag).

Little Cottonwood stock grain images — LC-23 locality

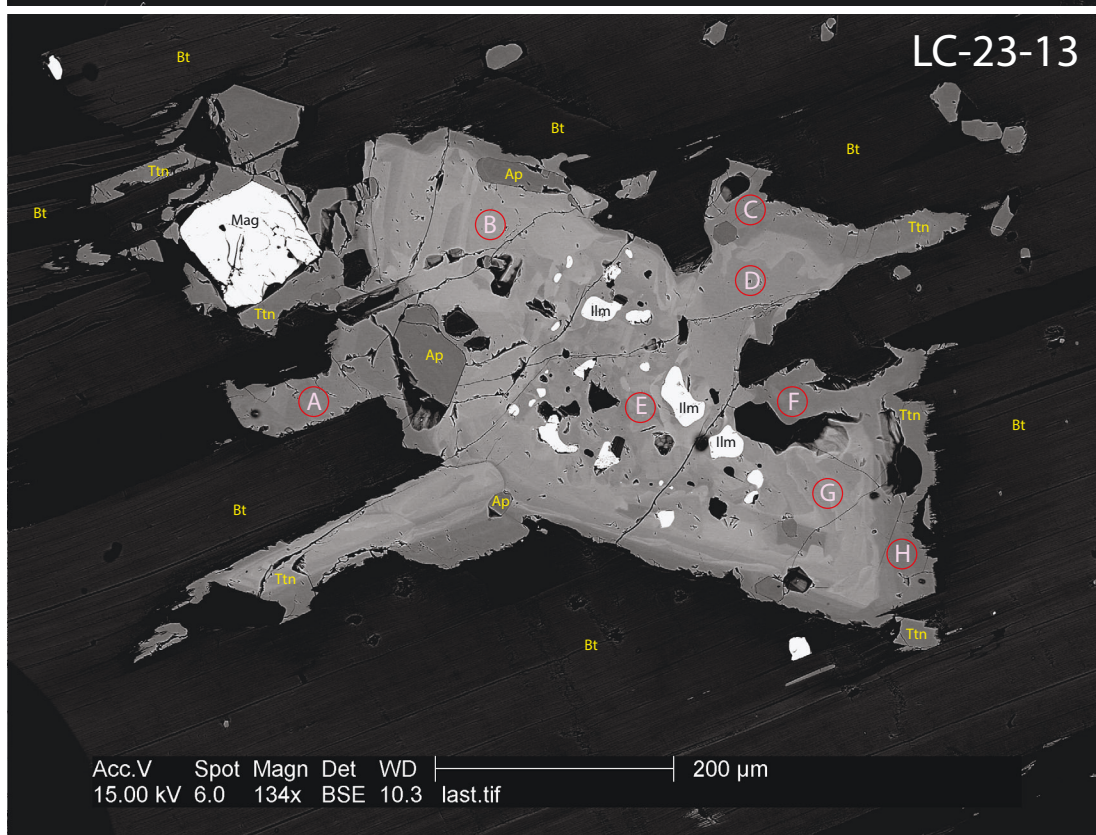
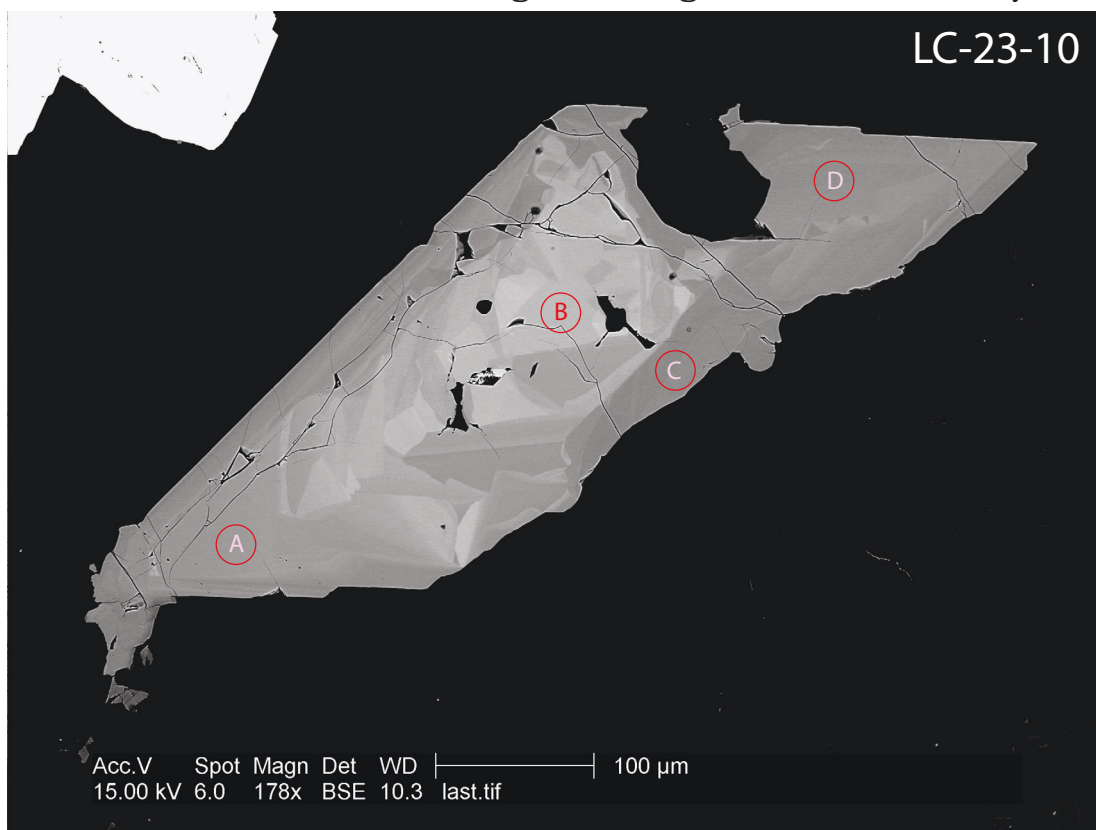


Figure A51. Little Cottonwood stock titanite grains in LC-23-10 and LC-23-13 with LA-ICP-MS spots (red). In lower photo, biotite (Bt) surrounds the titanite (Ttn) mass. Also present are apatite (Ap), ilmenite (Ilm), and magnetite (Mag).

Little Cottonwood stock grain images — LC-36 locality

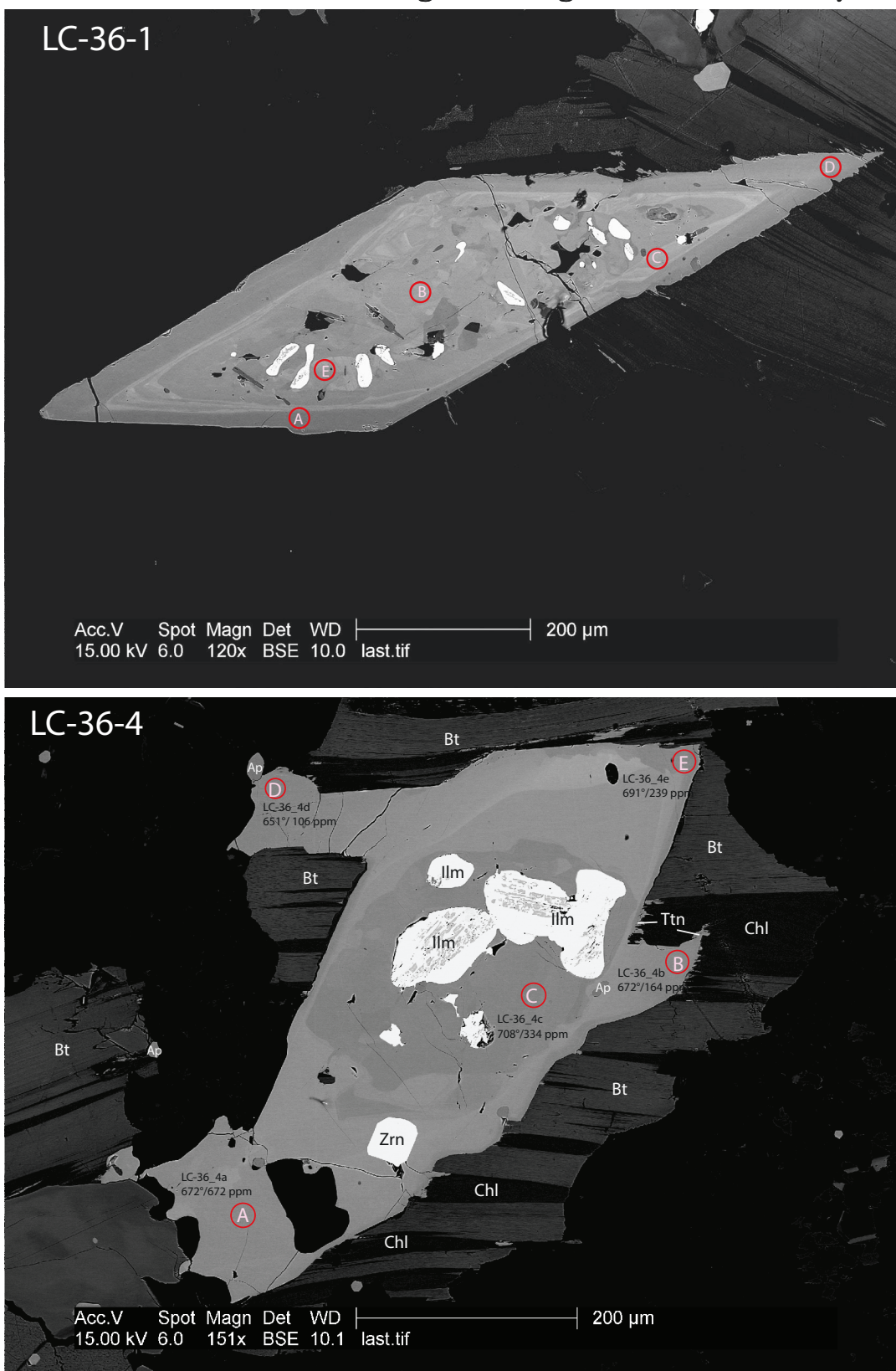


Figure A52. Little Cottonwood stock titanite grains in LC-36-1 and LC-36-4 with LA-ICP-MS spots (red). In lower photo, biotite (Bt) altering to chlorite (Chl) surrounds the titanite (Ttn) grain. Also present are apatite (Ap), ilmenite (Ilm), and zircon (Zrn). Note how the tiny titanite fingers usually grow out into the chloritized part of the biotite. Numbers are Zr in titanite temperatures (°C) and concentrations (ppm).

Little Cottonwood stock grain images — LC-36 locality

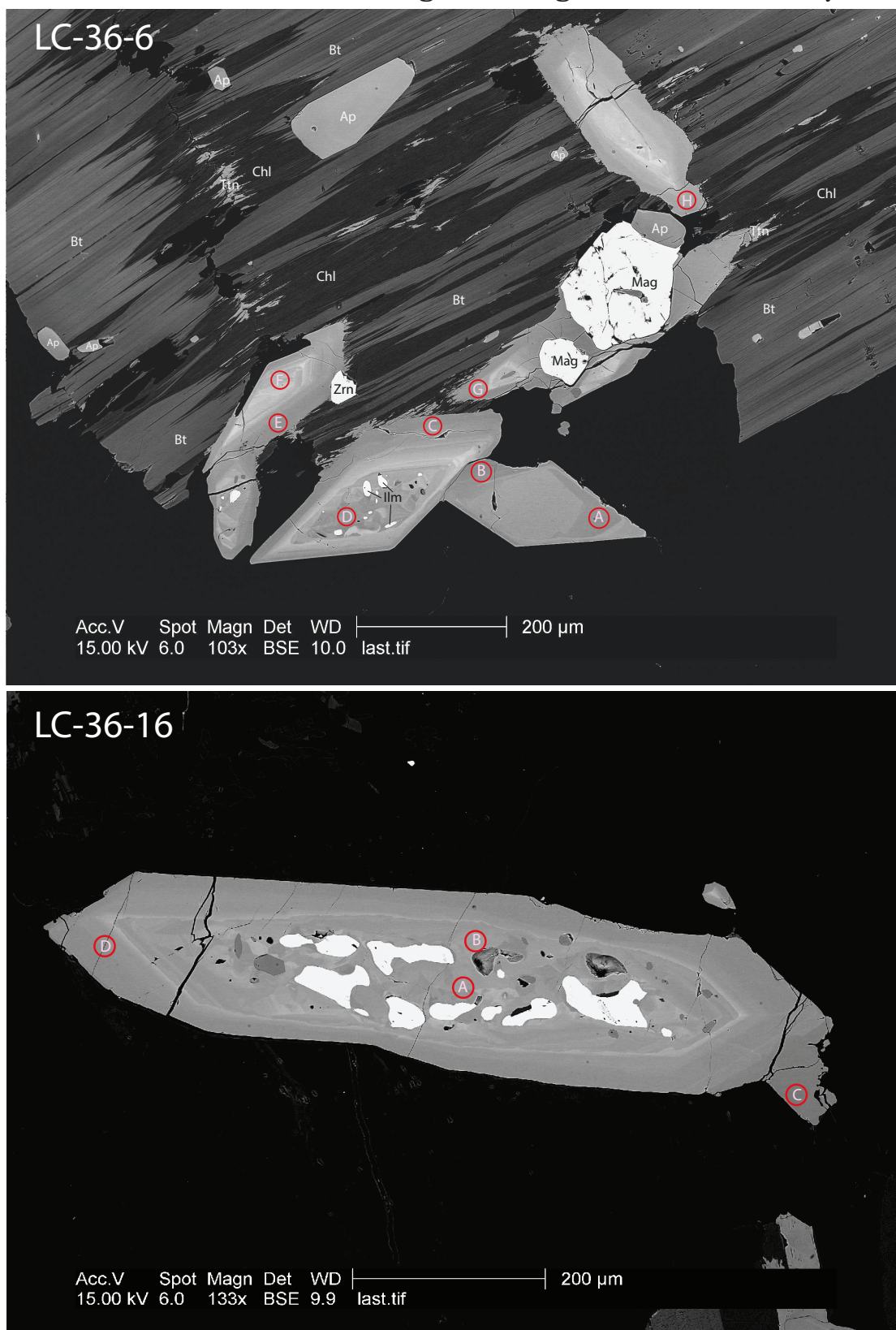
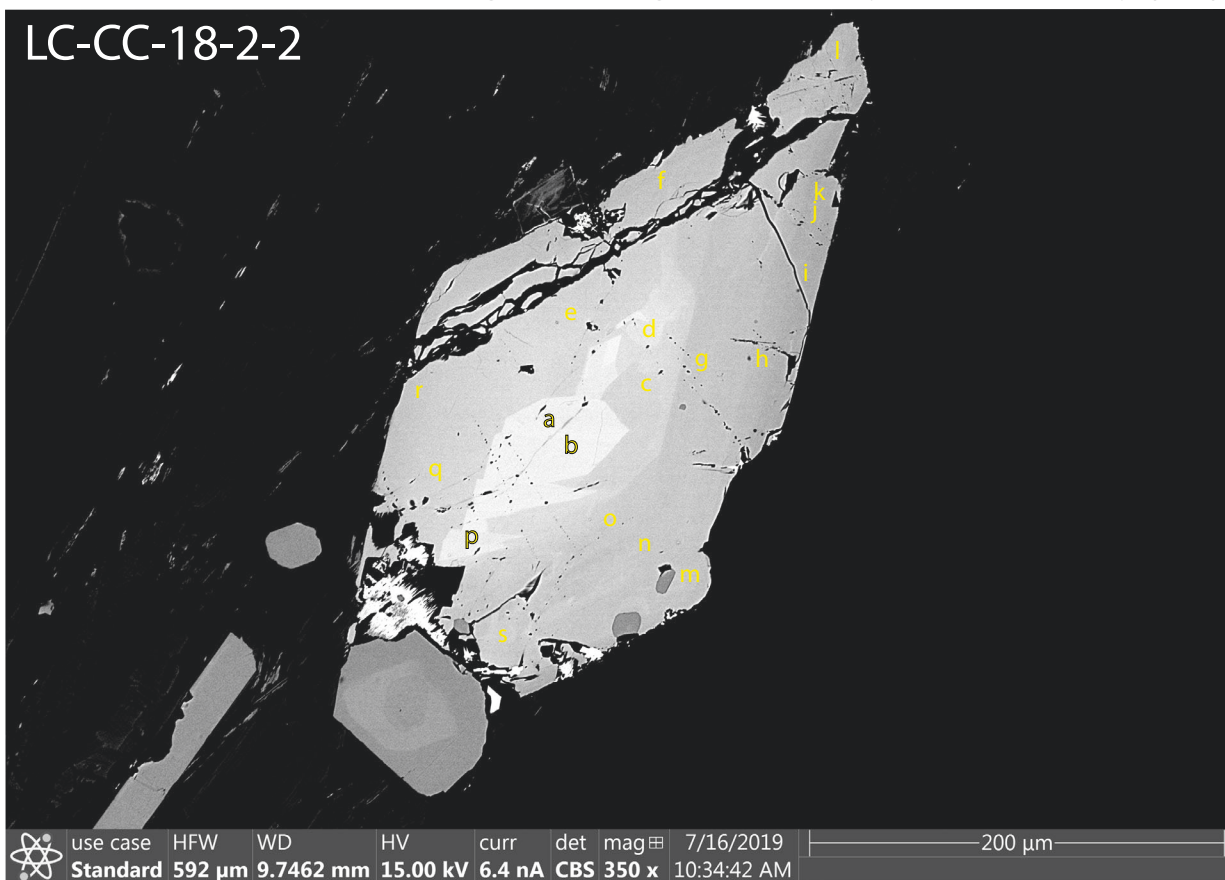


Figure A53. Little Cottonwood stock titanite grains in LC-36-6 and LC-36-16 with LA-ICP-MS spots (red). In upper photo, biotite (Bt) altering to chlorite (Chl) surrounds most of the titanite (Ttn) grains. Also present are apatite (Ap), ilmenite (Ilm), magnetite (Mag) and zircon (Zrn). Titanite slivers grow out into the chloritized part of the biotite.

Little Cottonwood enclave grain images — Cherry Creek locality (CC)

LC-CC-18-2-2



LC-CC-18-2-3

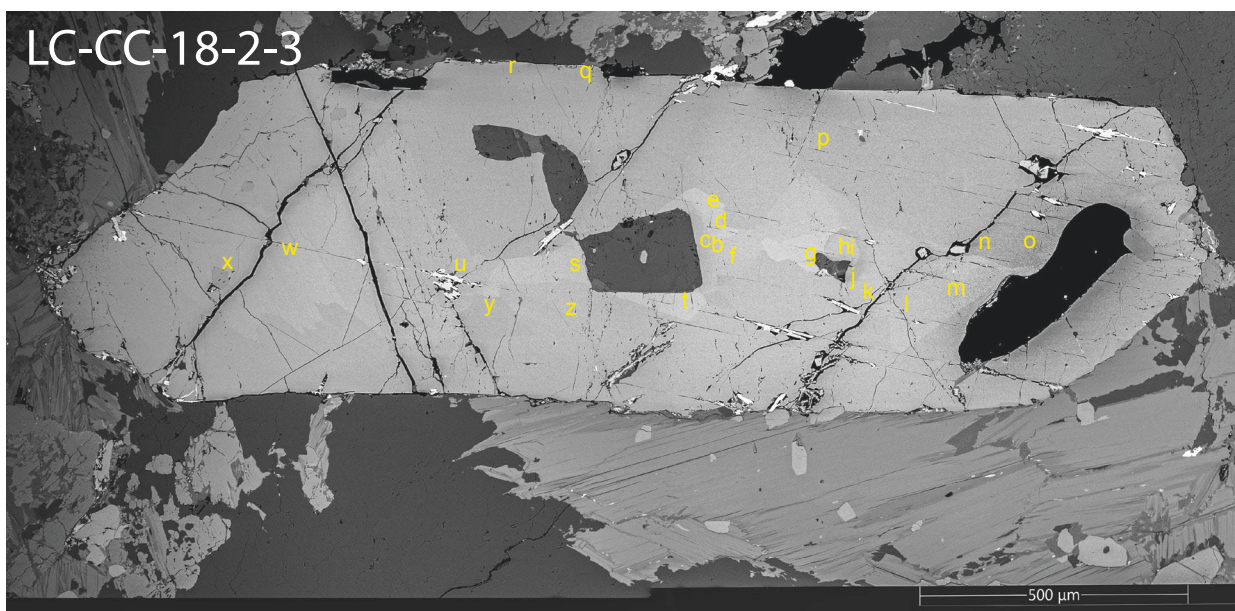


Figure A54. Little Cottonwood enclave titanite grains in LC-CC-18-2-2 and LC-CC-18-2-3 with electron microprobe spots (letters).

Little Cottonwood enclave grain images — Cherry Creek locality (CC)

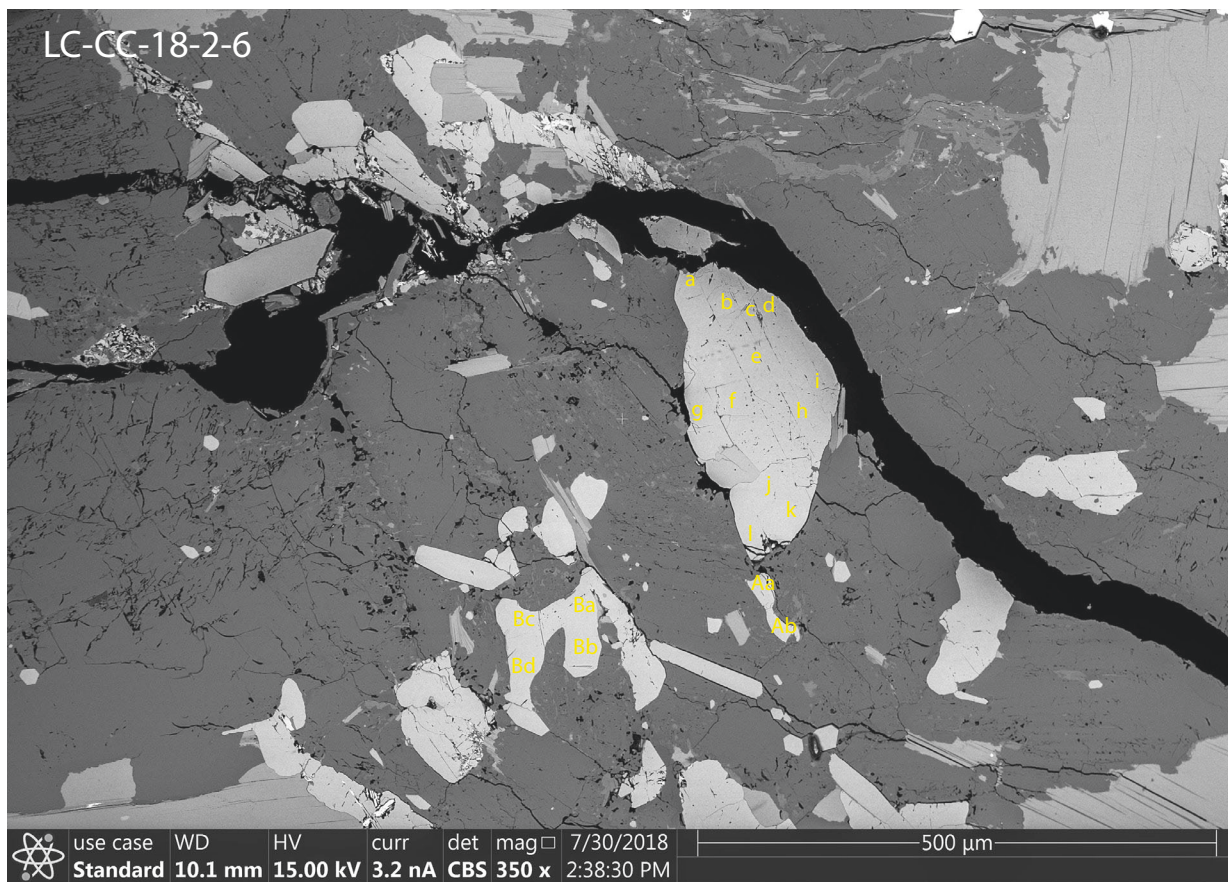


Figure A55. Little Cottonwood enclave titanite grains in LC-CC-18-2-6 with electron microprobe spots (letters).

Little Cottonwood enclave grain images — LC-CH locality

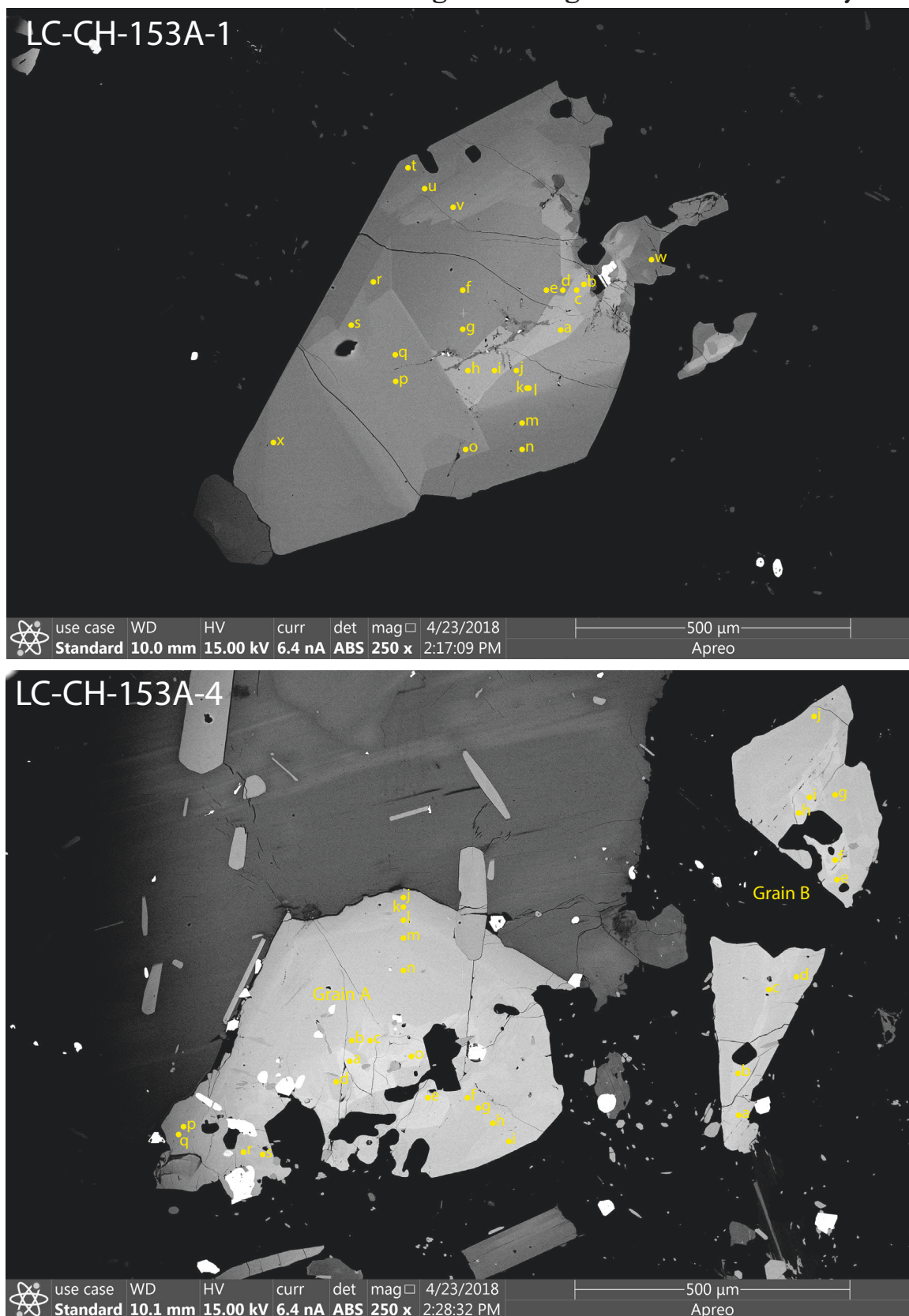


Figure A56. Little Cottonwood enclave titanite grains in LC-CH-153A-1 and LC-CH-153A-4 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — LC-CH locality

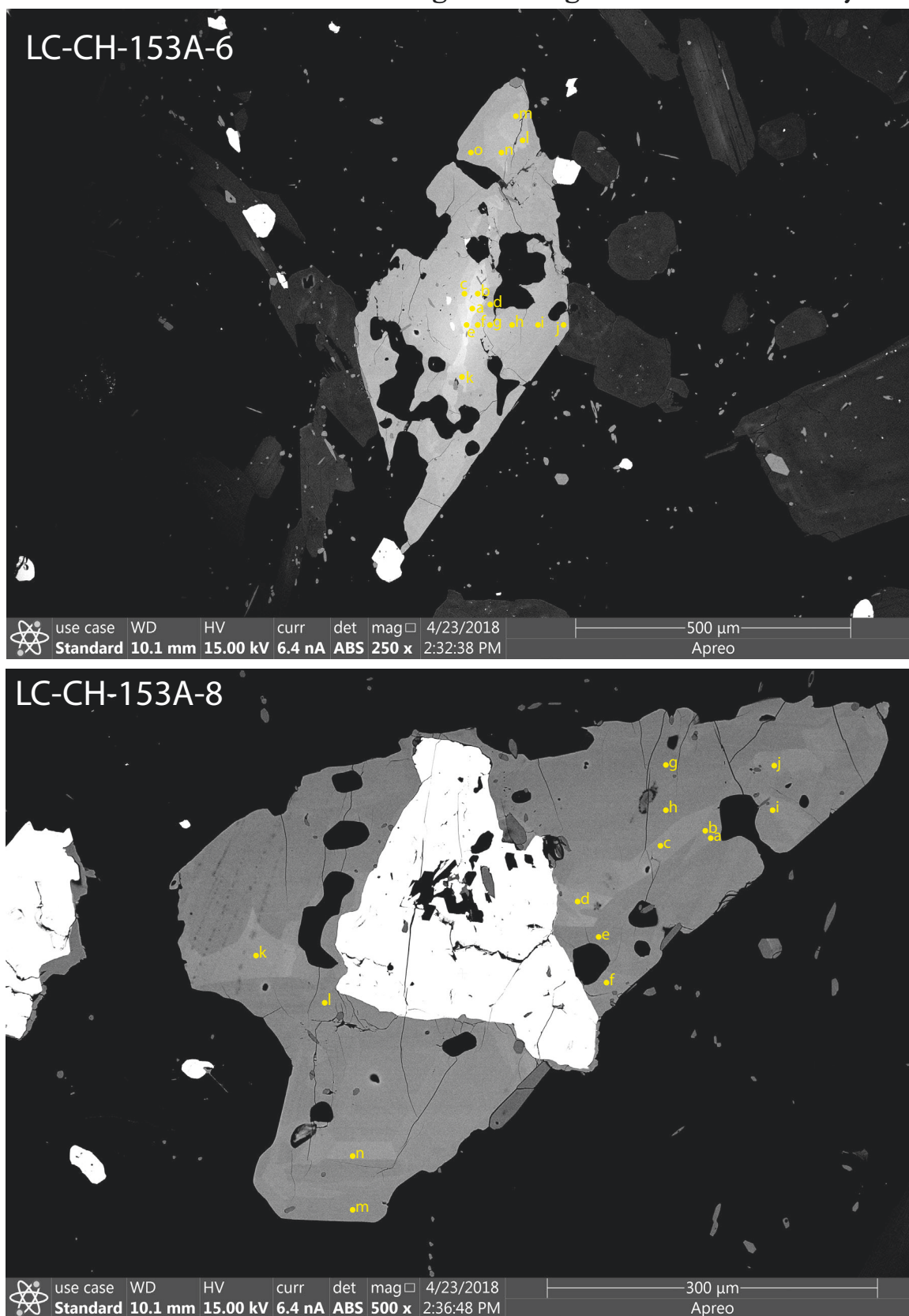


Figure A57. Little Cottonwood enclave titanite grains in LC-CH-153A-6 and LC-CH-153A-8 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — LC-CH locality

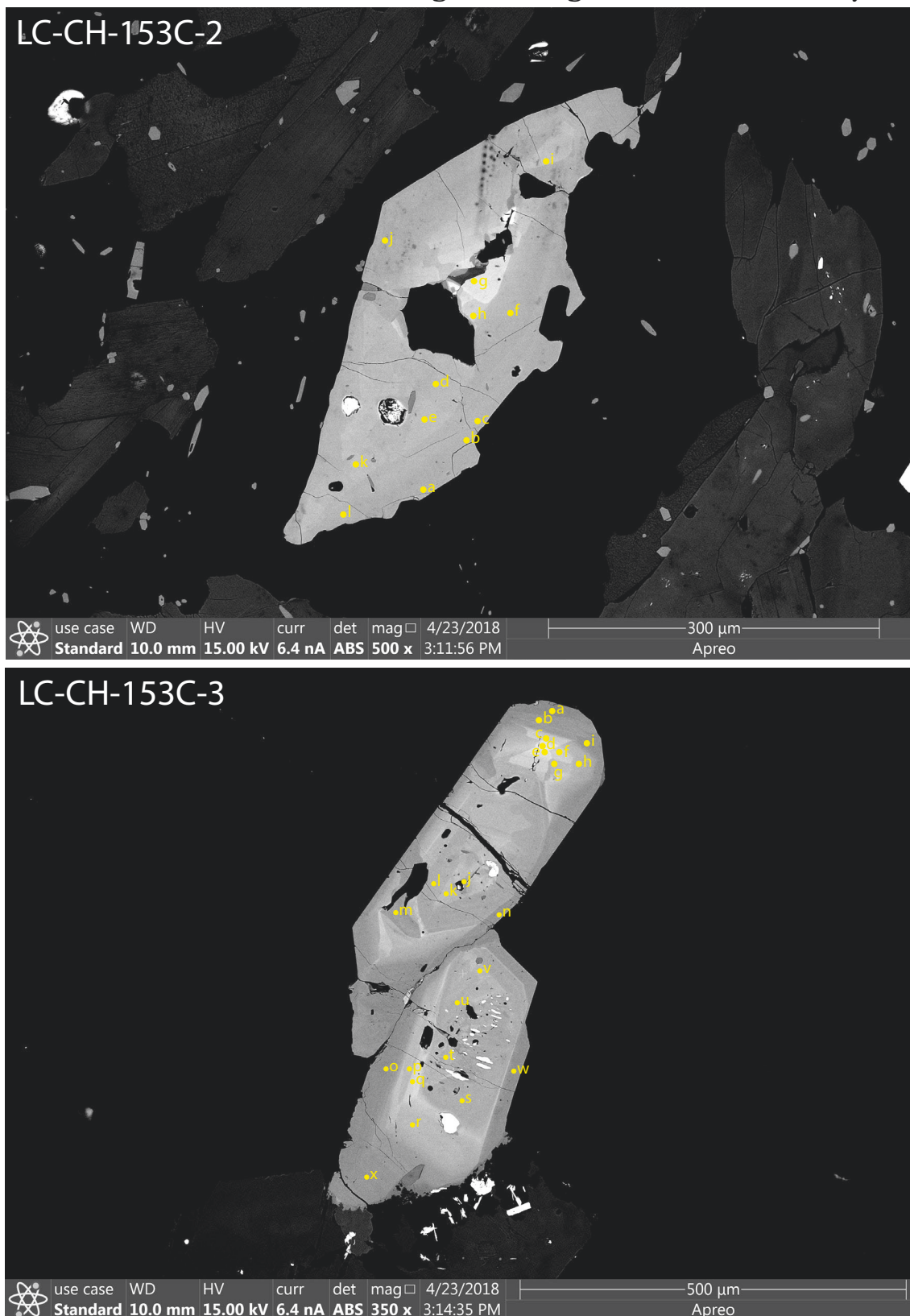


Figure A58. Little Cottonwood enclave titanite grains in LC-CH-153C-2 and LC-CH-153C-3 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — LC-CH locality

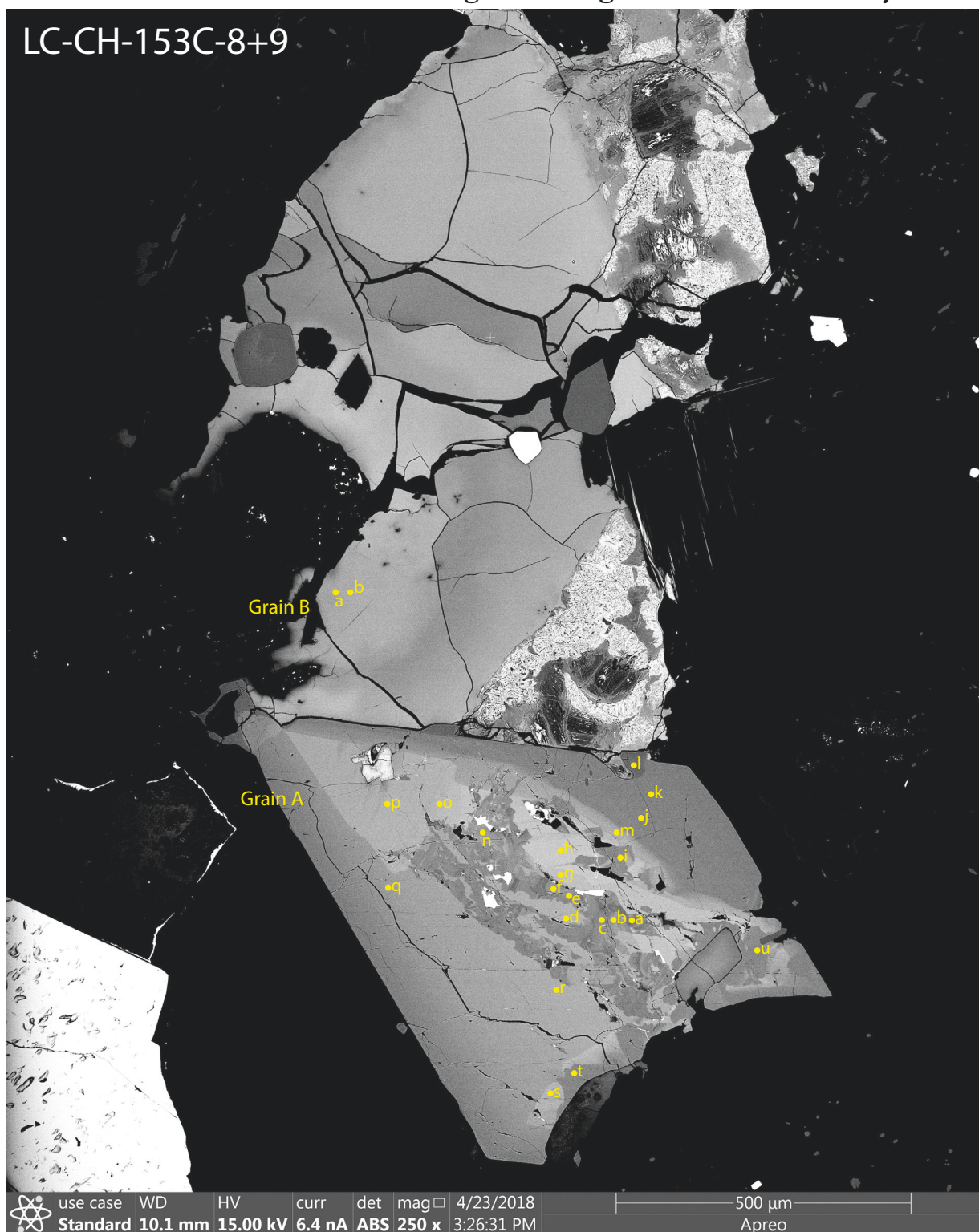


Figure A59. Little Cottonwood enclave titanite grains in LC-CH-153C-8+9 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — LC-CH locality

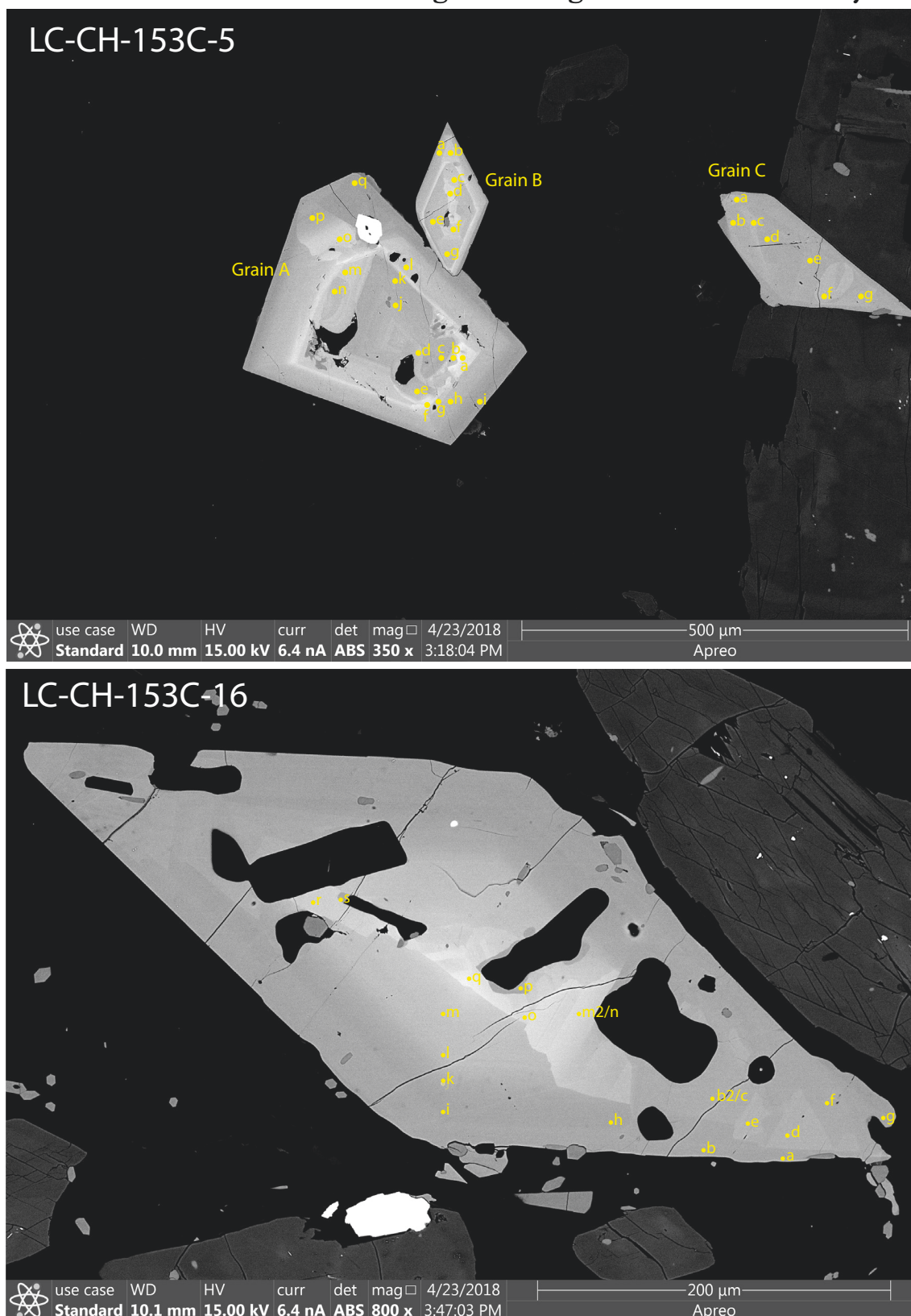


Figure A60. Little Cottonwood enclave titanite grains in LC-CH-153C-5 and LC-CH-153C-16 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — LC-CH locality

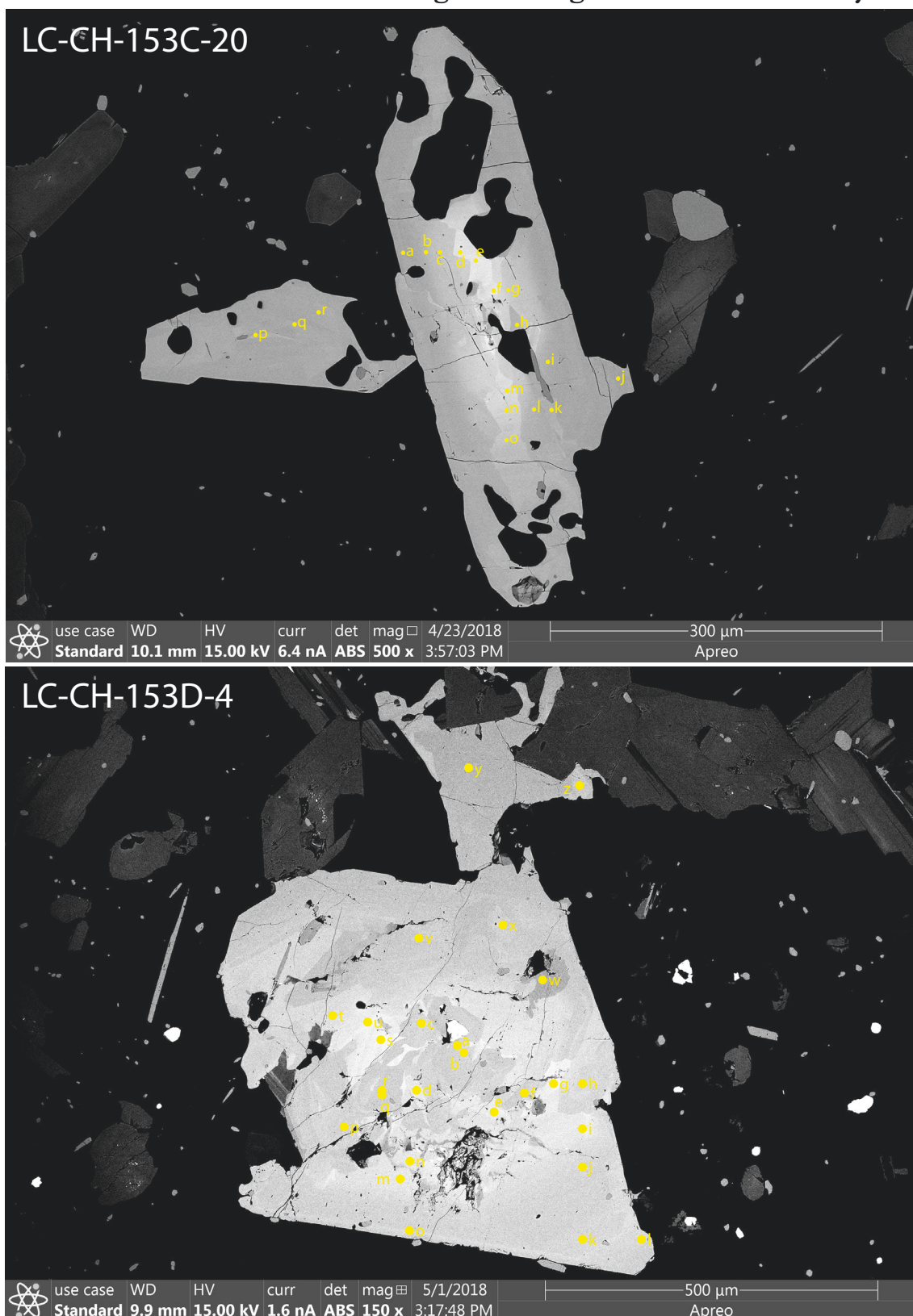


Figure A61. Little Cottonwood enclave titanite grains in LC-CH-153C-20 and LC-CH-153D-4 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — LC-CH locality

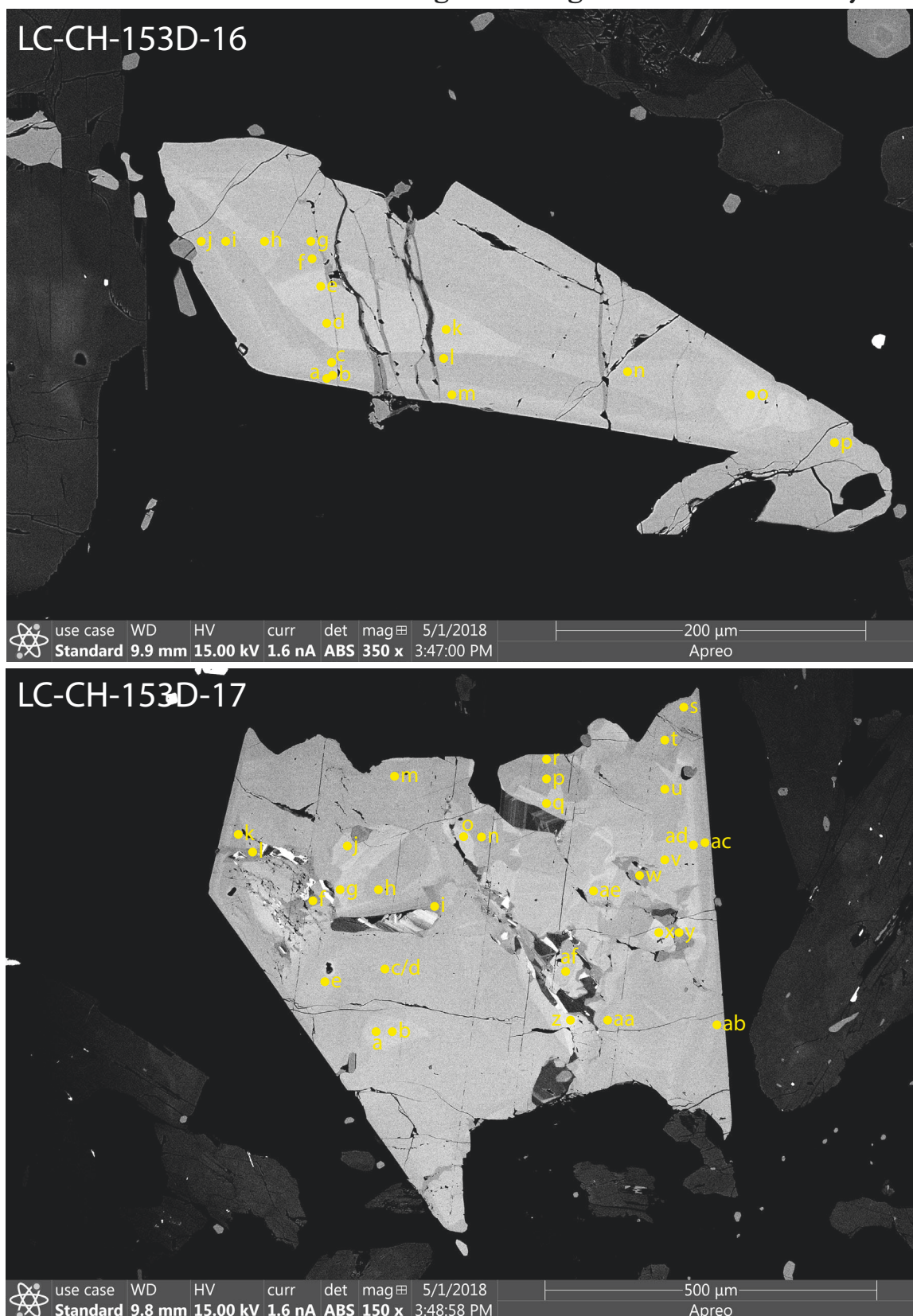


Figure A62. Little Cottonwood enclave titanite grains in LC-CH-153D-16 and LC-CH-153D-17 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — LC-CH locality

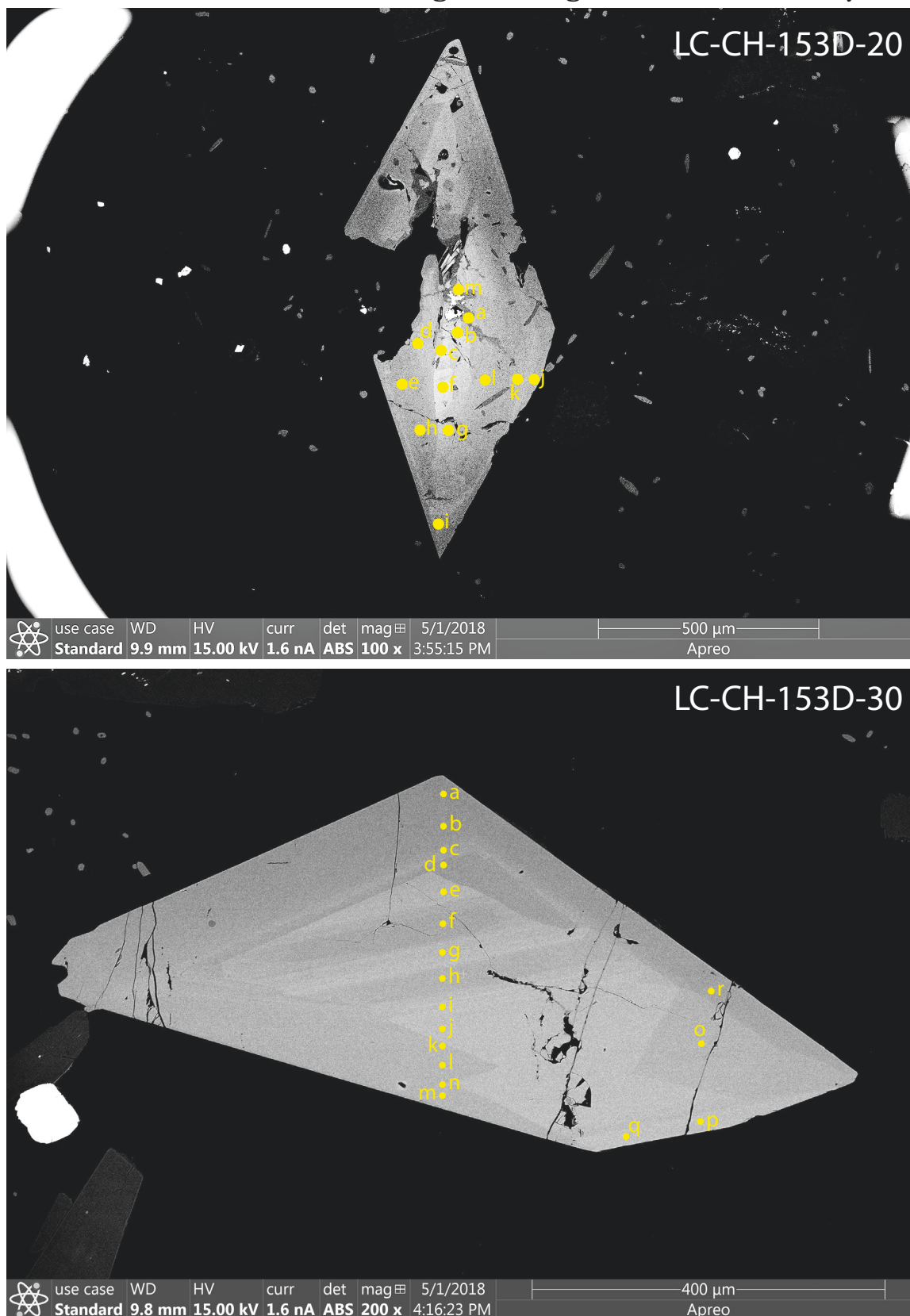


Figure A63. Little Cottonwood enclave titanite grains in LC-CH-153D-20 and LC-CH-153D-30 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Corner Canyon locality

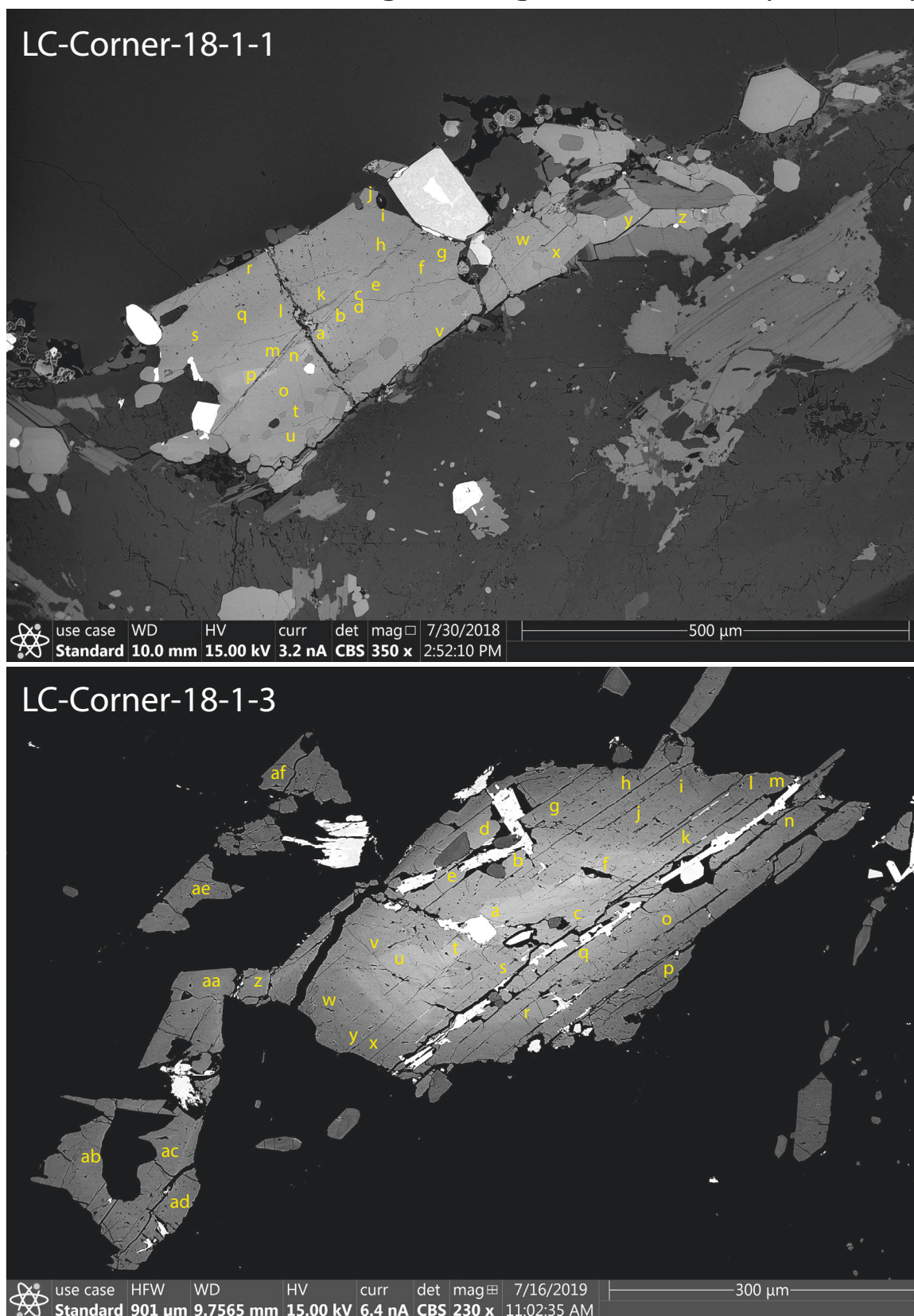


Figure A64. Little Cottonwood enclave titanite grains in LC-Corner-18-1-1 and LC-Corner-18-1-3 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Corner Canyon locality

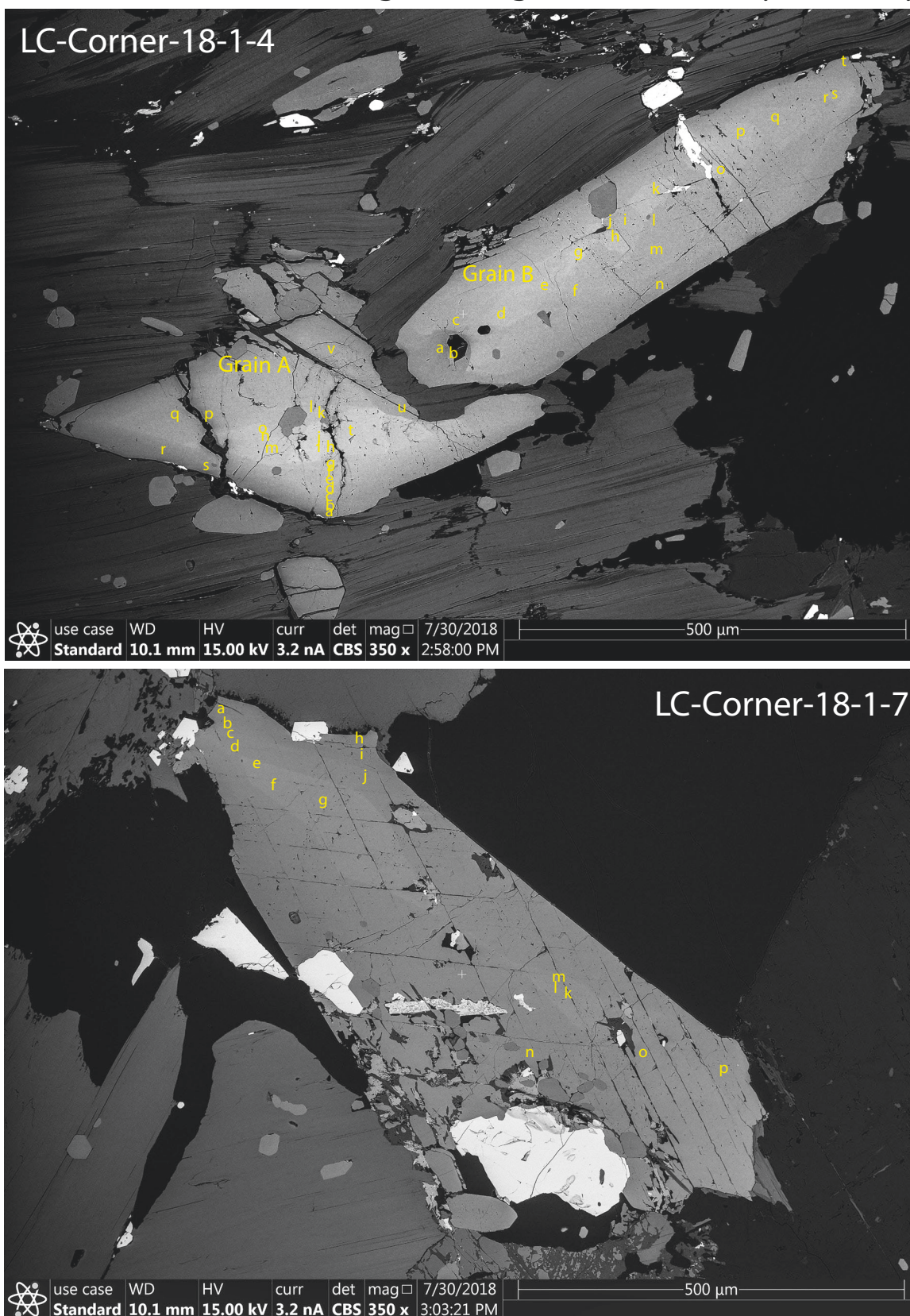


Figure A65. Little Cottonwood enclave titanite grains in LC-Corner-18-1-4 and LC-Corner-18-1-7 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Corner Canyon locality

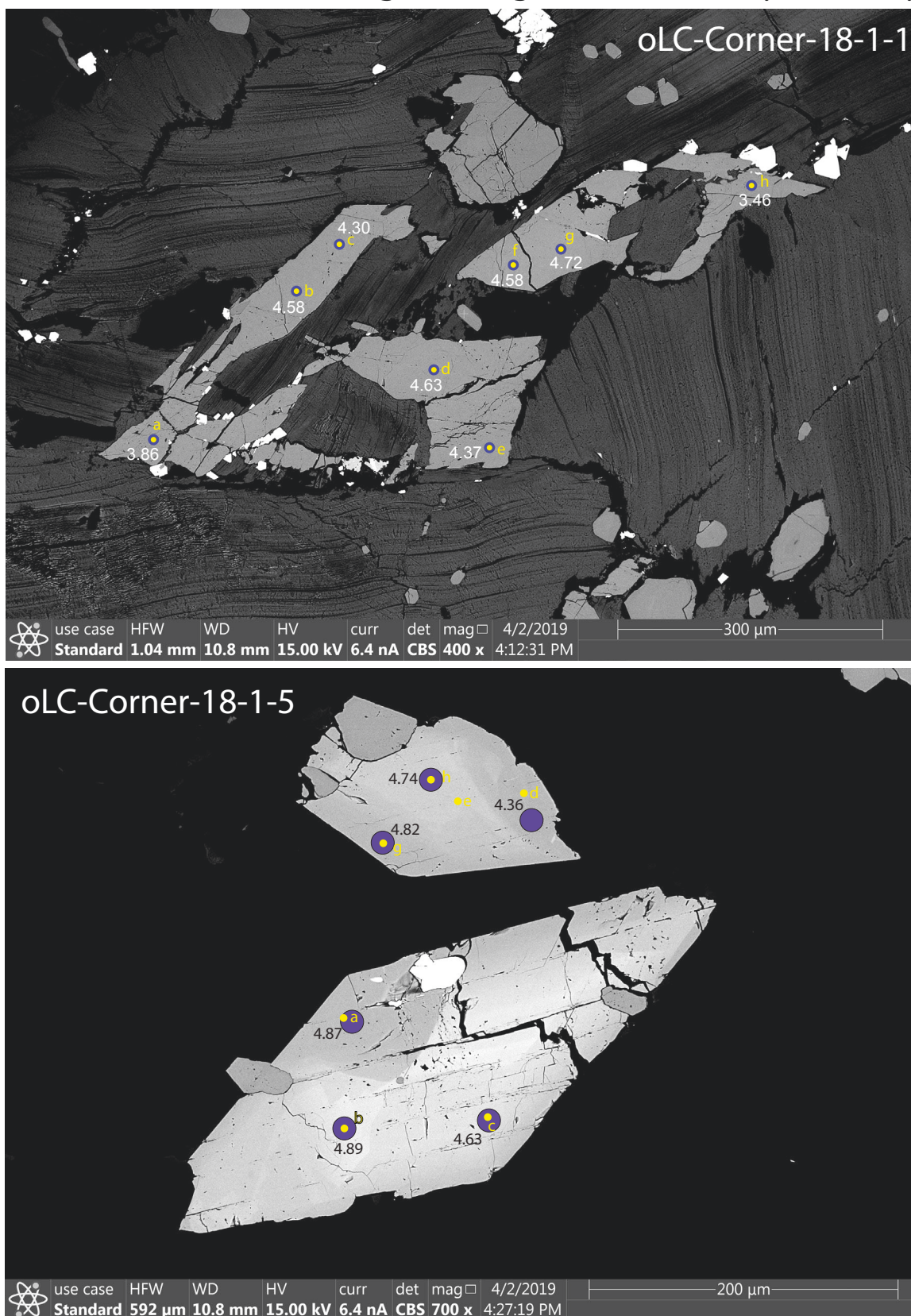


Figure A66. Little Cottonwood enclave titanite grains in oLC-Corner-18-1-1 and oLC-Corner-18-1-5 with electron microprobe spots (yellow) and oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

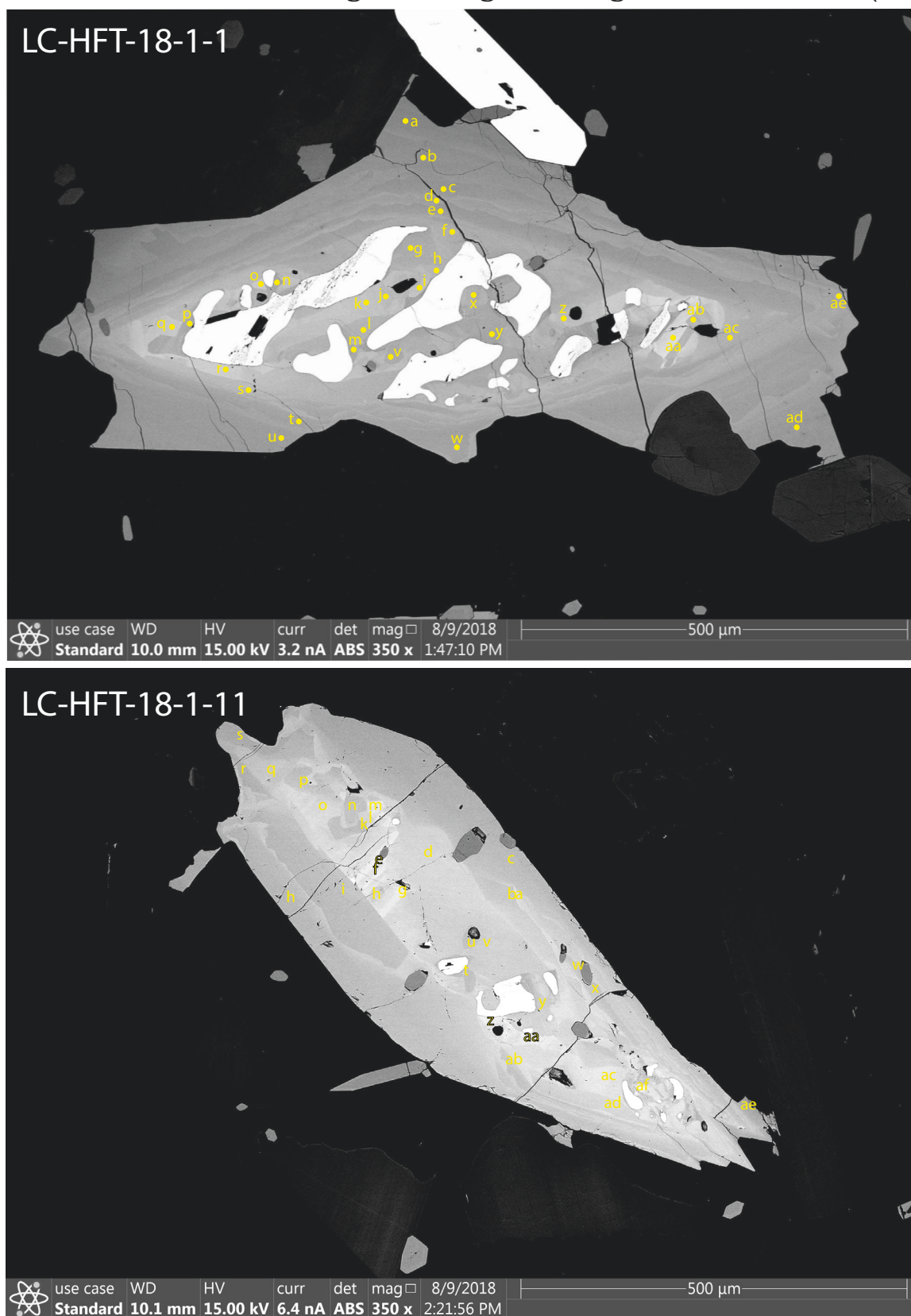


Figure A67. Little Cottonwood enclave titanite grains in LC-HFT-18-1-1 and LC-HFT-18-1-11 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

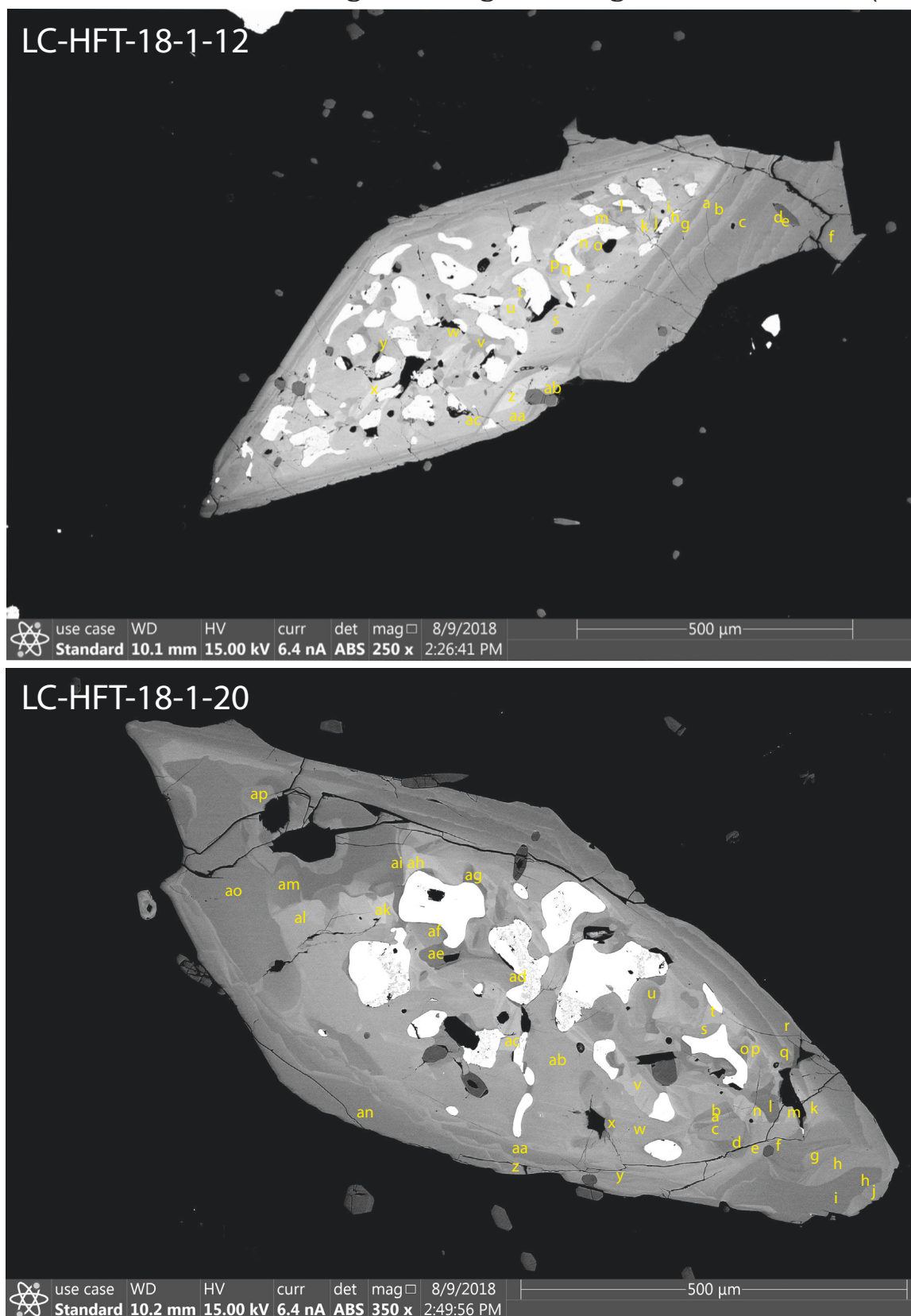


Figure A68. Little Cottonwood enclave titanite grains in LC-HFT-18-1-12 and LC-HFT-18-1-20 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

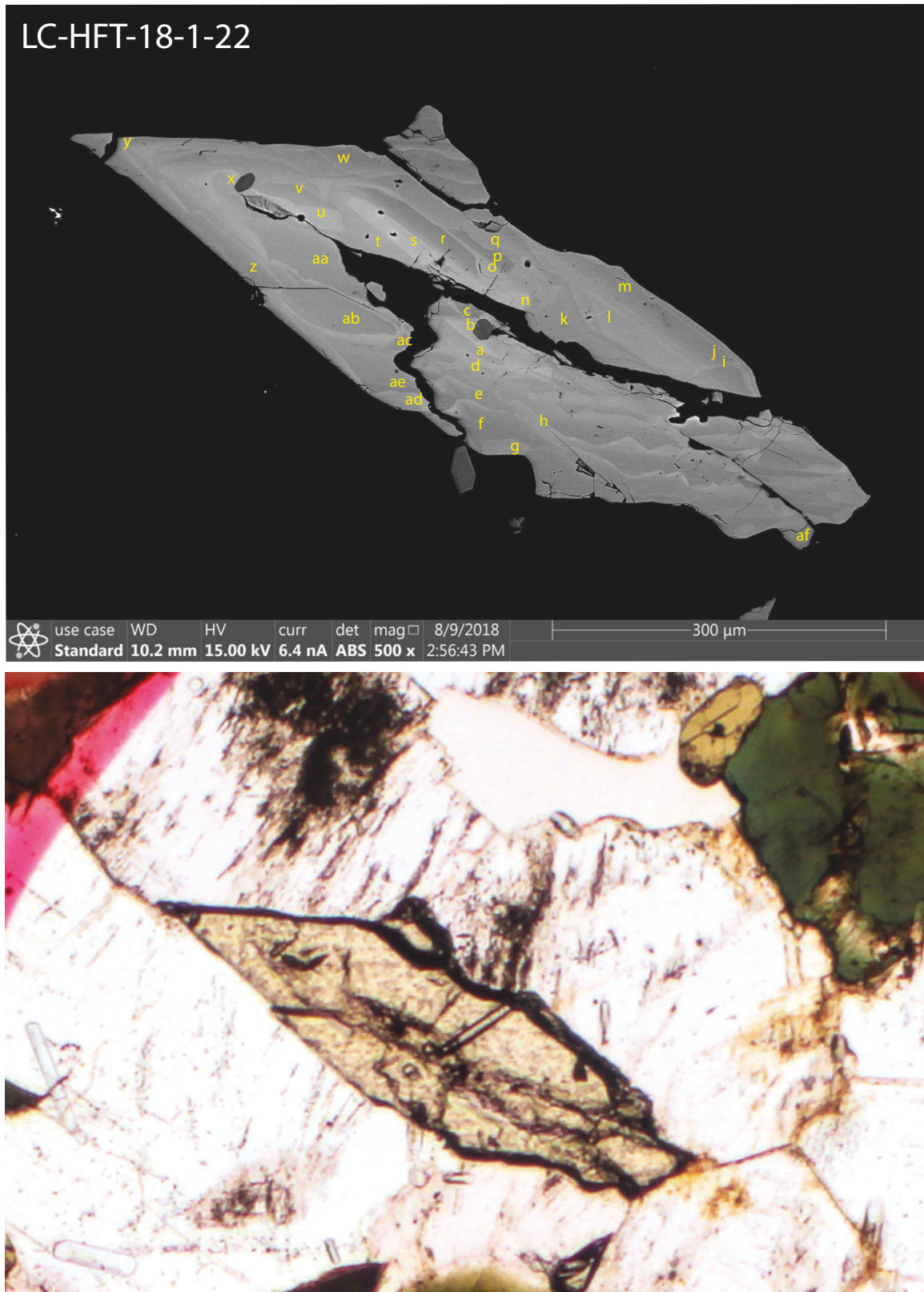


Figure A69. Top: Little Cottonwood enclave titanite grains in LC-HFT-18-1-22 with electron microprobe spots (yellow). Bottom: Petrographic photo of same grain in plane polarized light.

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

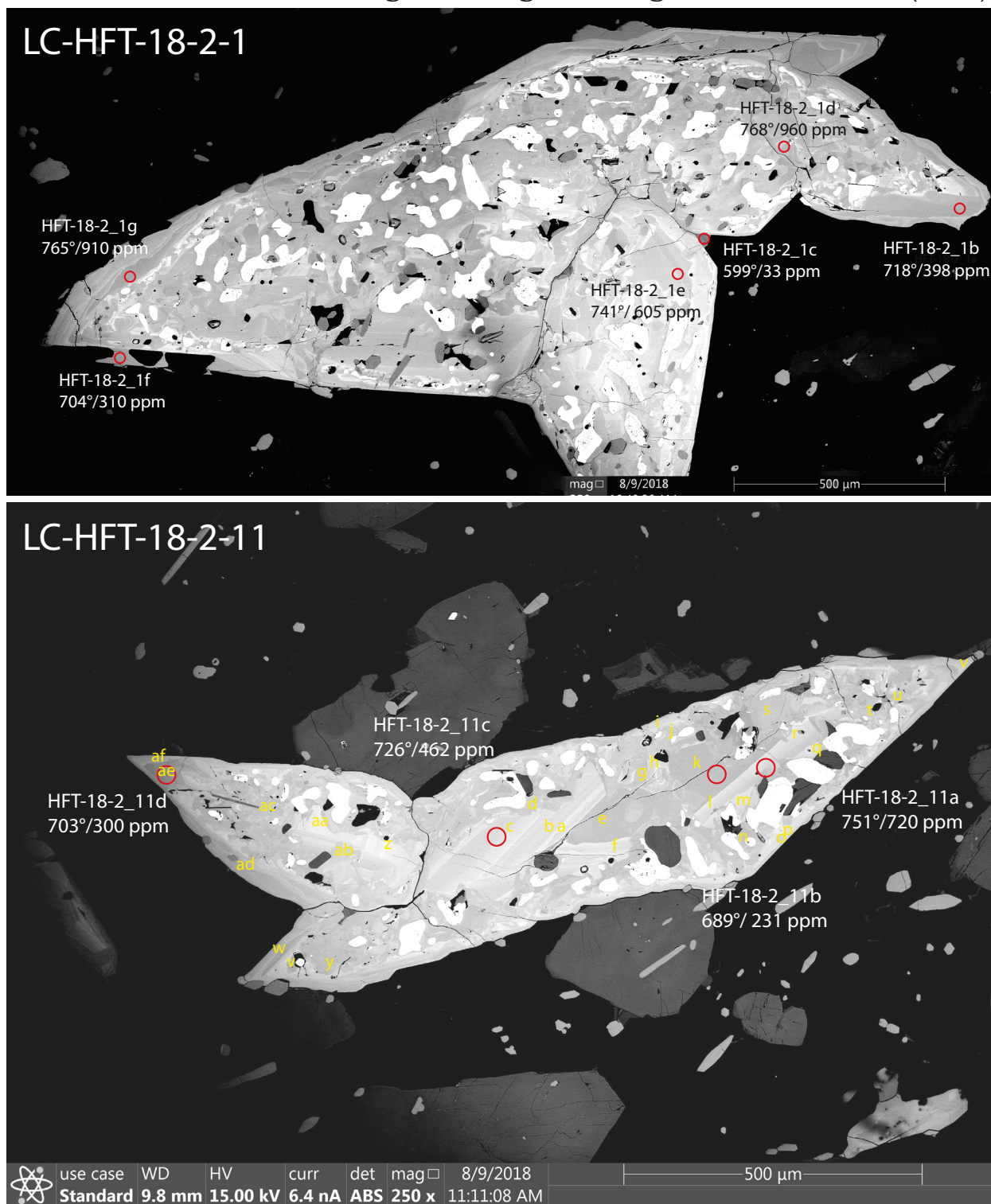


Figure A70. Little Cottonwood enclave titanite grains in LC-HFT-18-2-1 and LC-HFT-18-2-11 with electron microprobe spots (yellow) and LA=ICP-MS spots (red) with zirconium (ppm) and Zr in titanite temperatures.

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

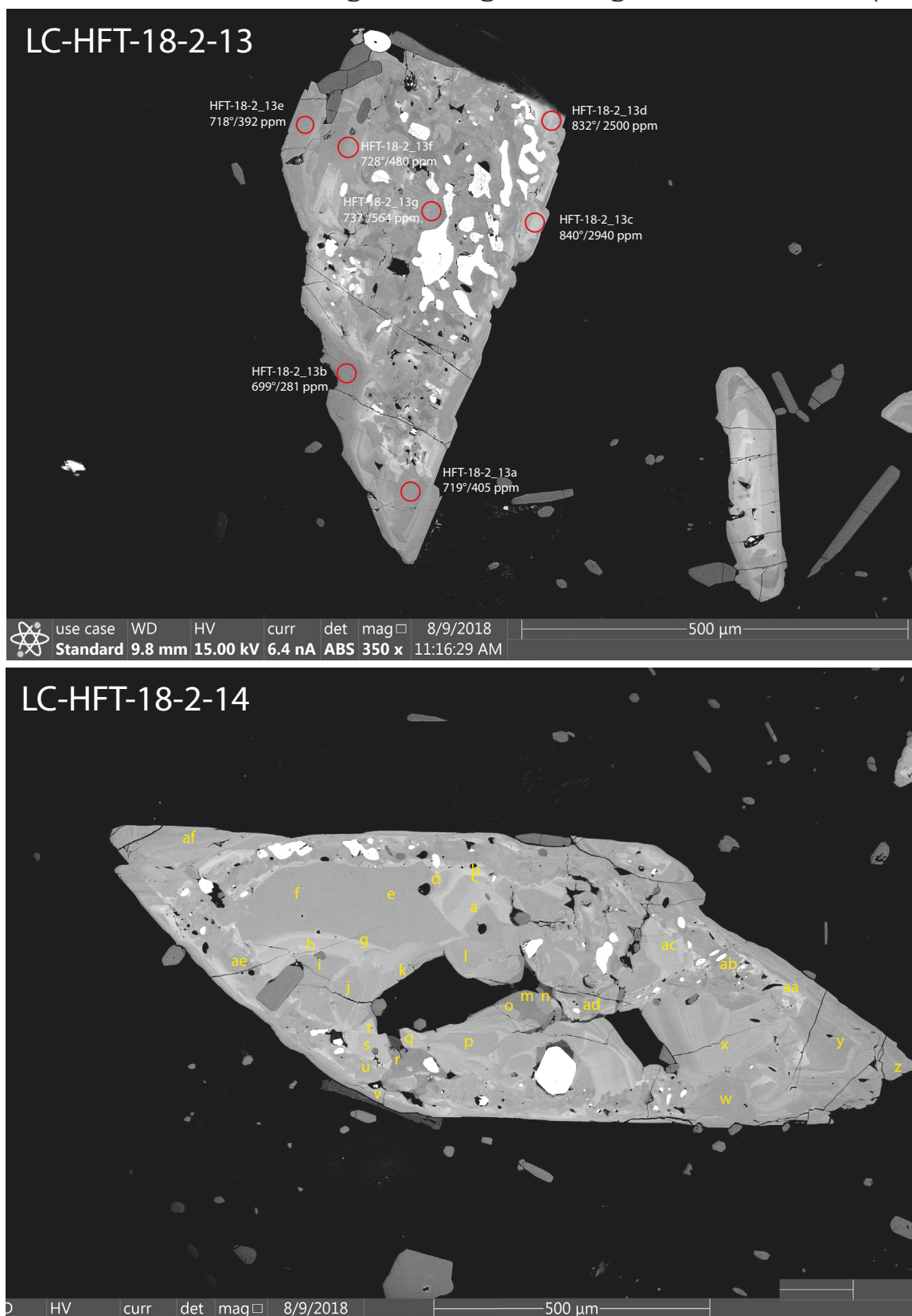


Figure A71. Little Cottonwood enclave titanite grains in LC-HFT-18-2-13 and LC-HFT-18-2-14 with electron microprobe spots (yellow) and LA=ICP-MS spots (red) with zirconium (ppm) and Zr in titanite temperatures.

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

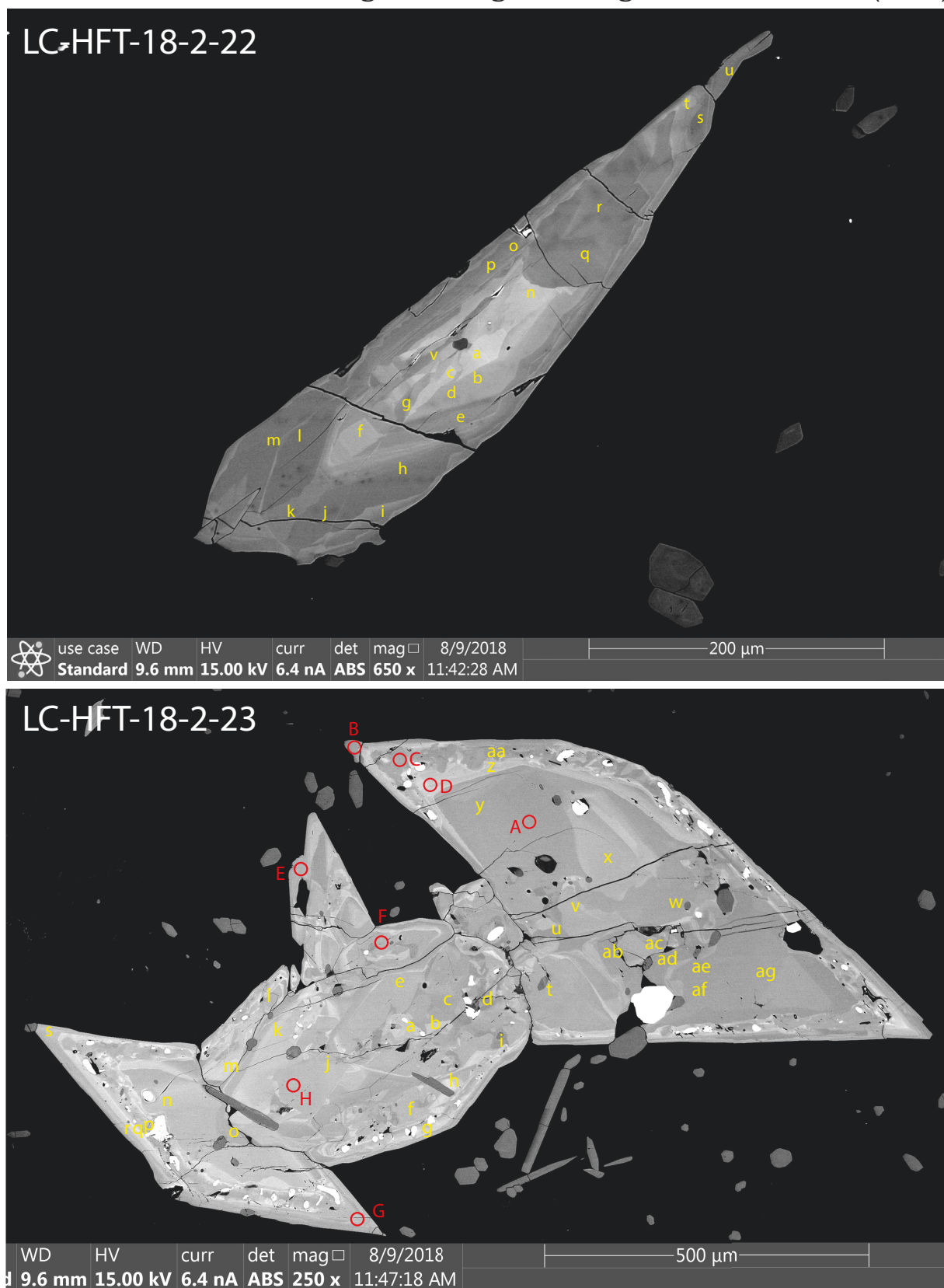


Figure A72. Little Cottonwood enclave titanite grains in LC-HFT-18-2-22 and LC-HFT-18-2-23 with electron microprobe spots (yellow) and LA=ICP-MS spots (red).

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

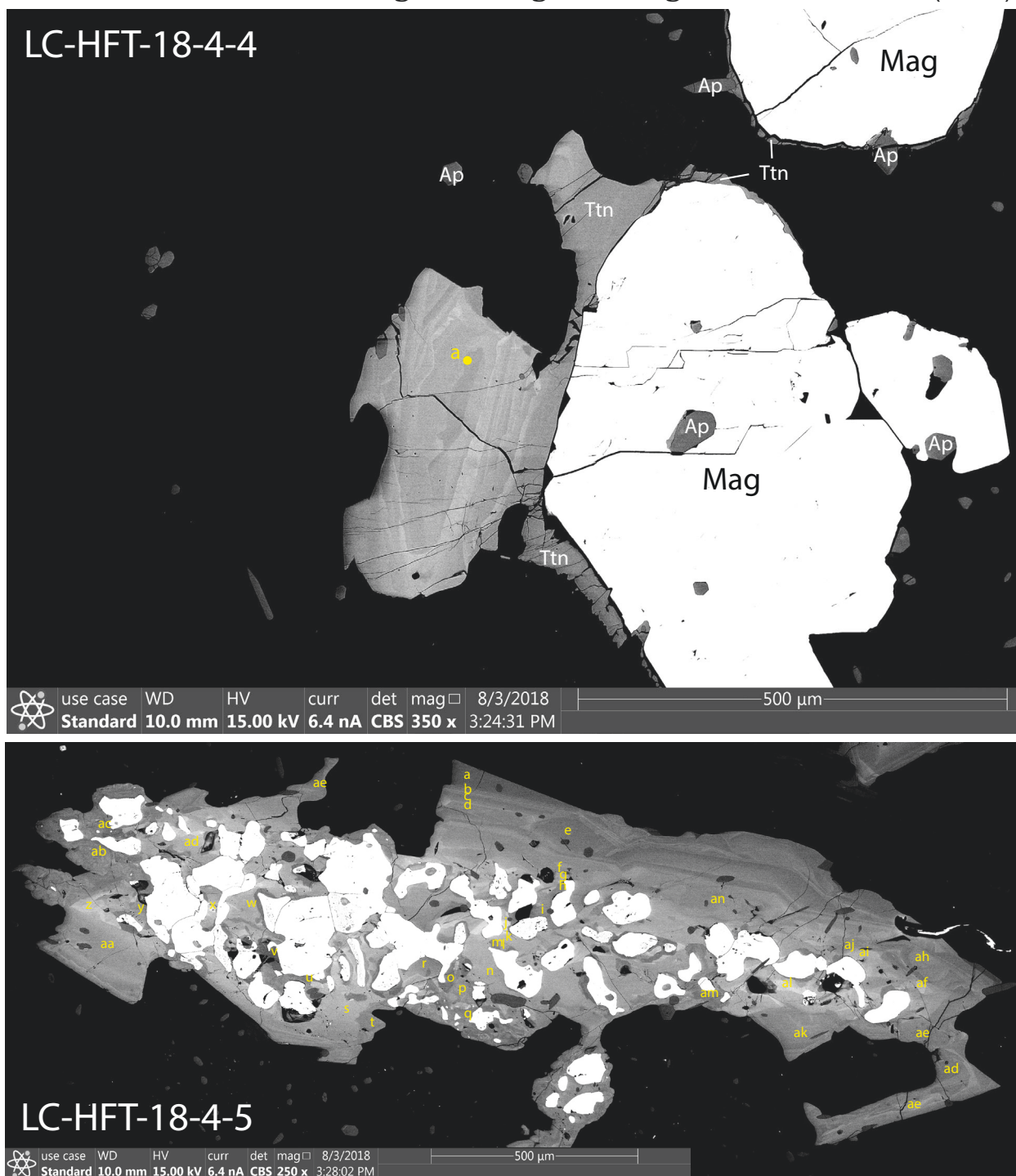


Figure A73. Little Cottonwood enclave titanite grains in LC-HFT-18-4-4 and LC-HFT-18-4-5 with electron microprobe spots (yellow). In the upper photo, grains of magnetite (Mag) are overgrown by titanite (Ttn).

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

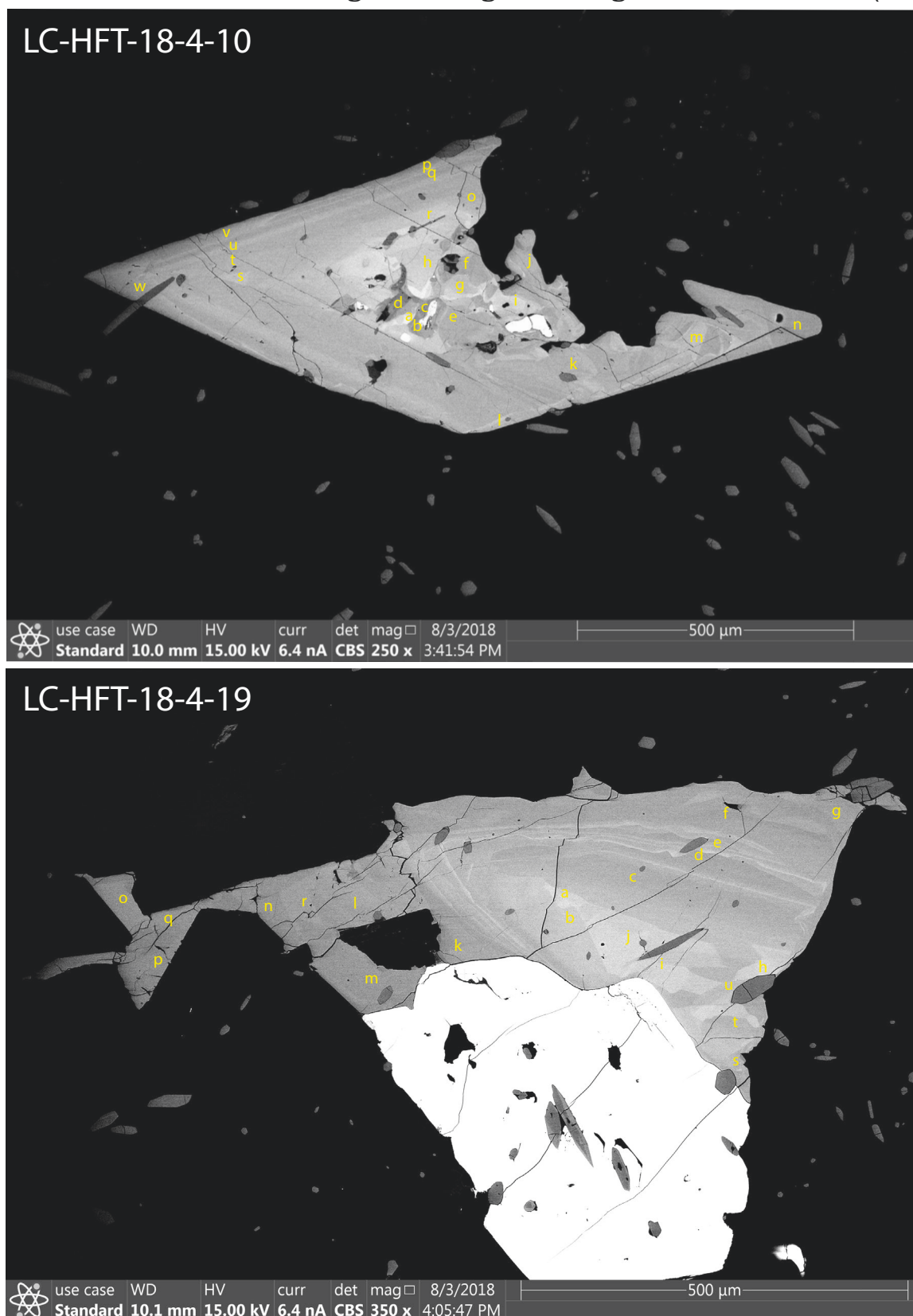


Figure A74. Little Cottonwood enclave titanite grains in LC-HFT-18-4-10 and LC-HFT-18-4-19 with electron microprobe spots (yellow). Most of the small gray minerals in the black background are apatite.

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

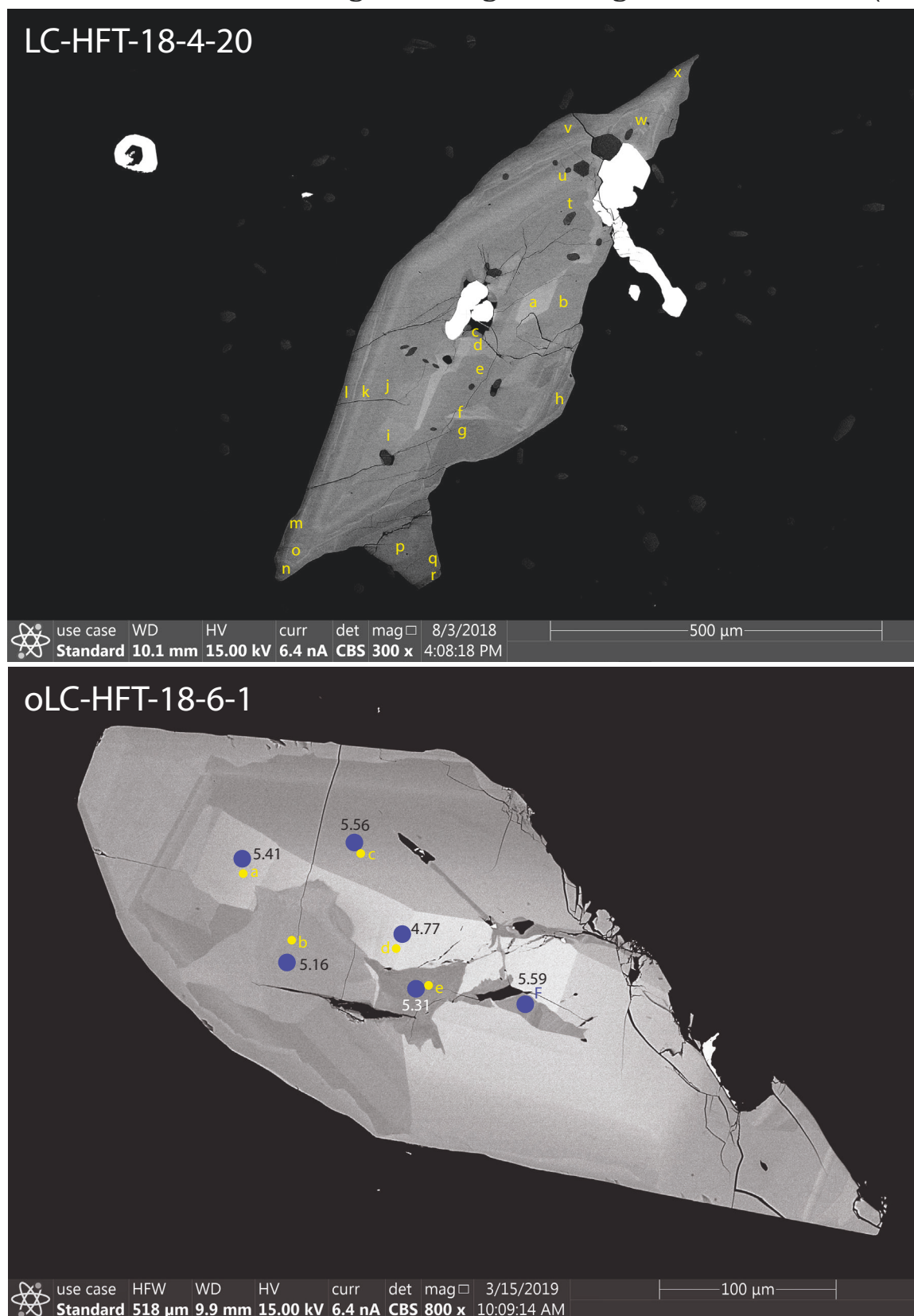


Figure A75. Little Cottonwood enclave titanite grains in LC-HFT-18-4-20 and oLC-HFT-18-6-1 with electron microprobe spots (yellow) and oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

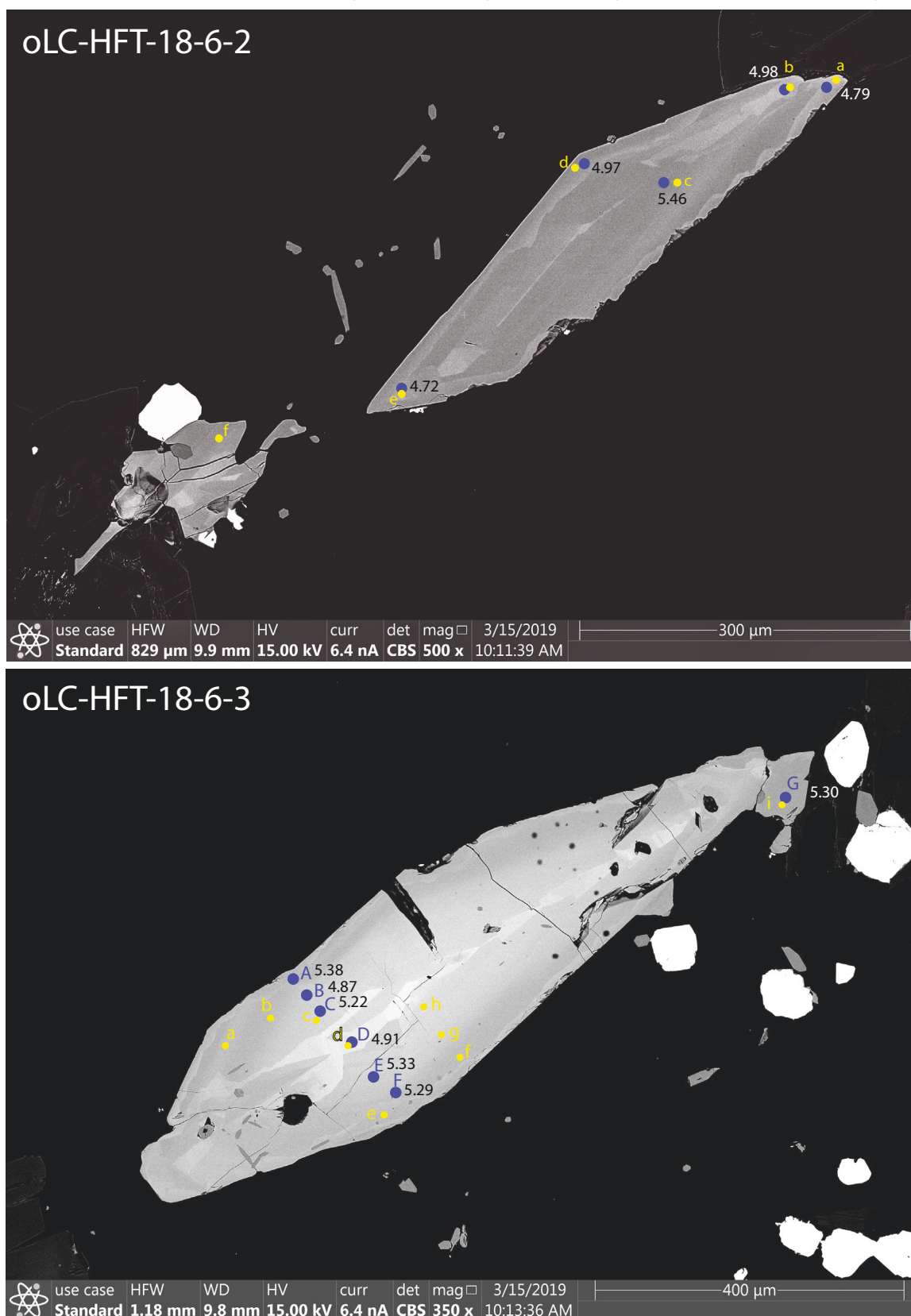


Figure A76. Little Cottonwood enclave titanite grains in oLC-HFT-18-6-2 and oLC-HFT-18-6-3 with electron microprobe spots (yellow) and oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

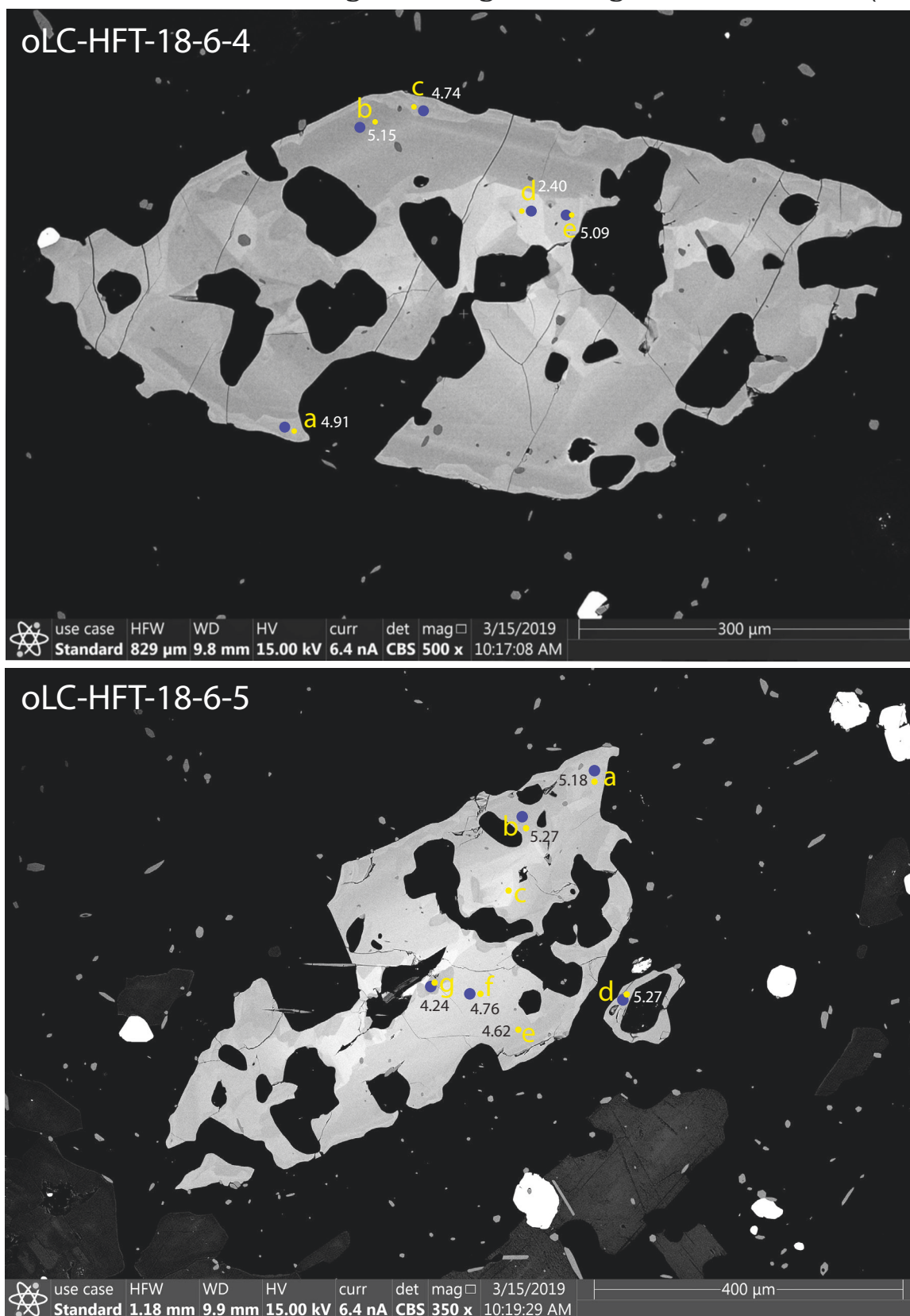


Figure A77. Little Cottonwood enclave titanite grains in oLC-HFT-18-6-4 and oLC-HFT-18-6-5 with electron microprobe spots (yellow) and oxygen isotope spots (blue). Most of the small gray minerals in the black background are apatite. Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

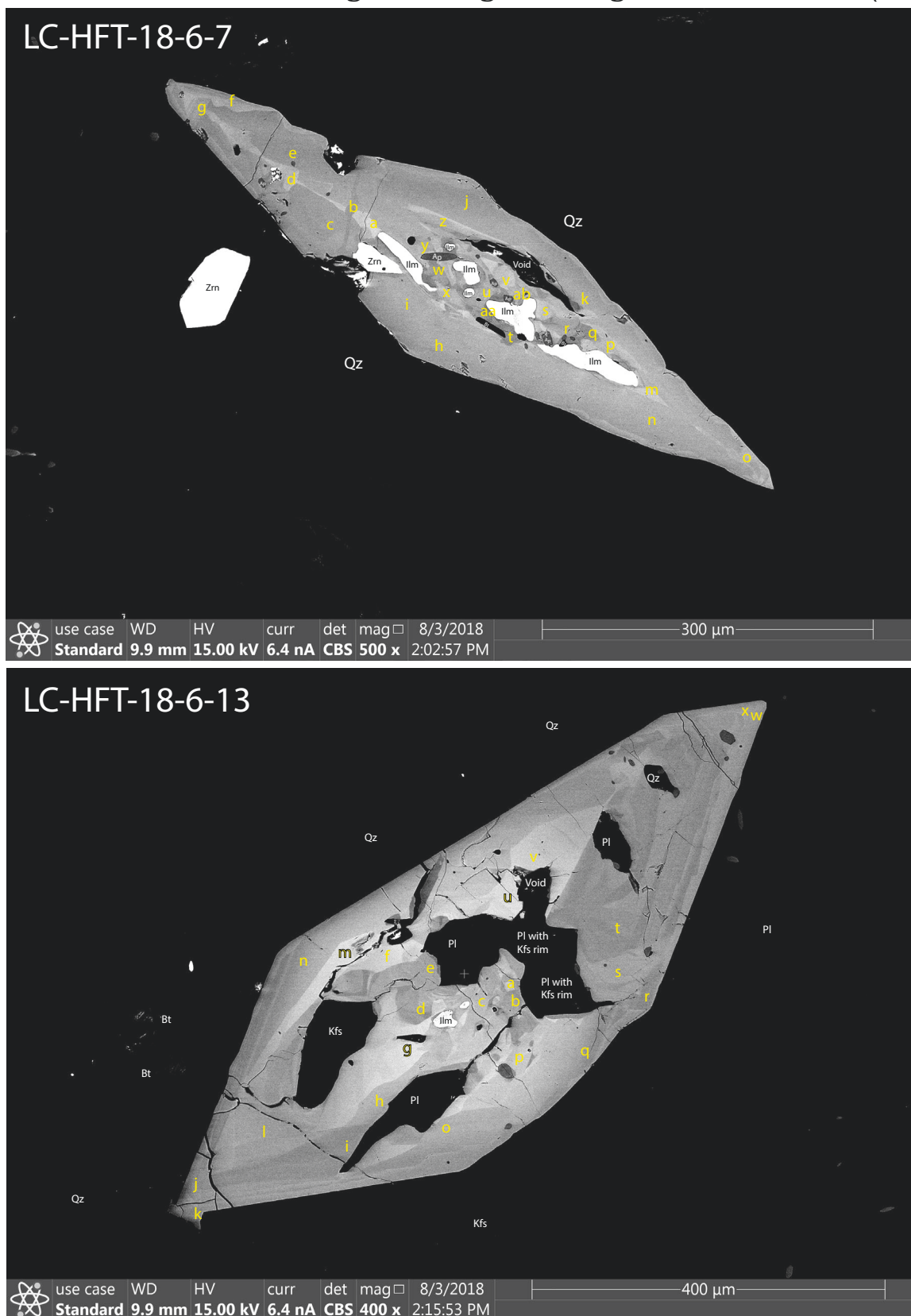


Figure A78. Little Cottonwood enclave titanite grains in LC-HFT-18-6-7 and LC-HFT-18-6-13 with electron microprobe spots (yellow). Note the enclosed feldspar and quartz in lower photo of poikilitic grain.

Little Cottonwood enclave grain images — Hogum Fork Turnout (HFT)

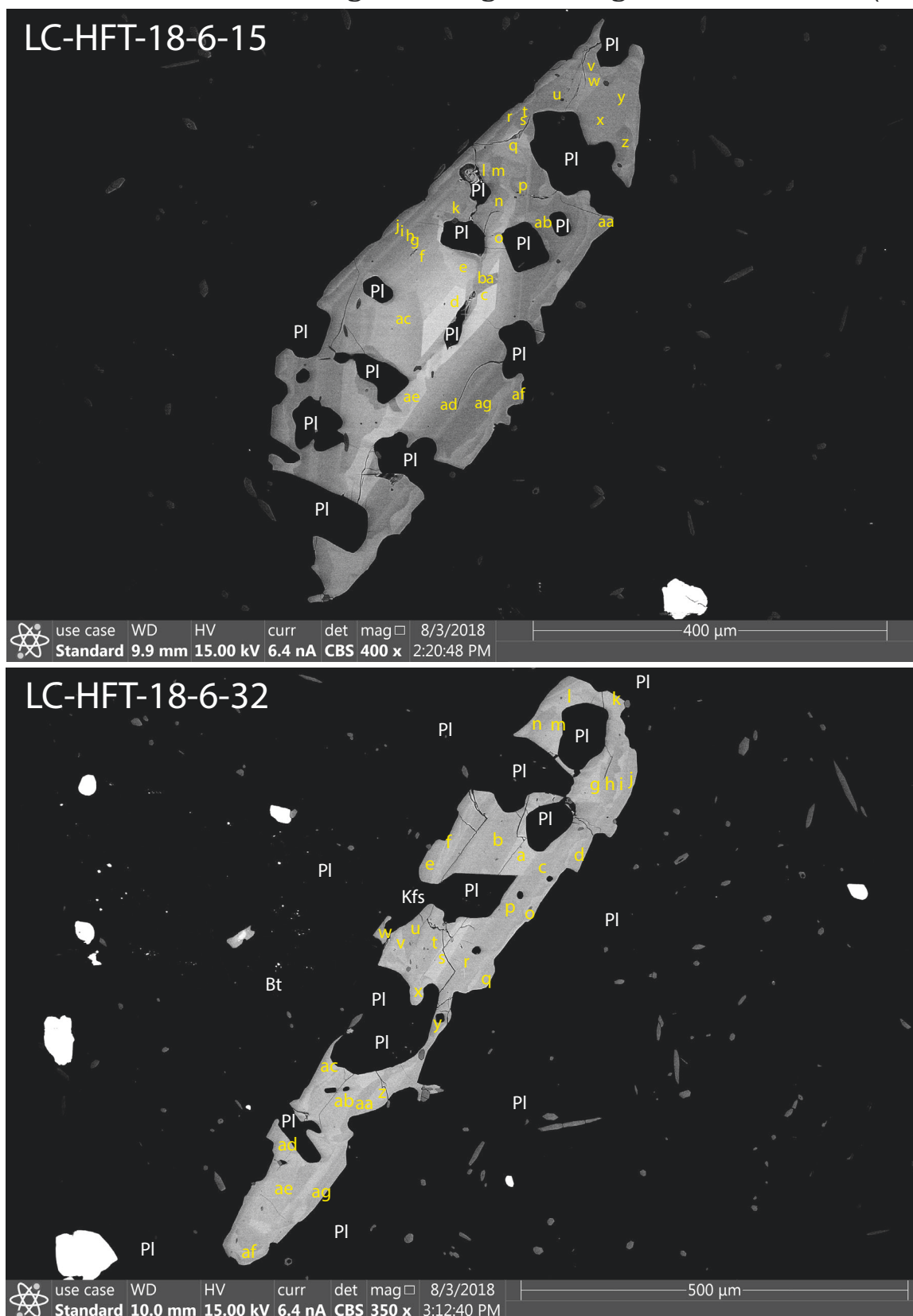


Figure A79. Little Cottonwood enclave titanite grains in LC-HFT-18-6-15 and LC-HFT-18-6-32 with electron microprobe spots (yellow). Most of the small gray minerals in the black background are apatite.

Little Cottonwood enclave grain images — Snow Bird locality (SB)

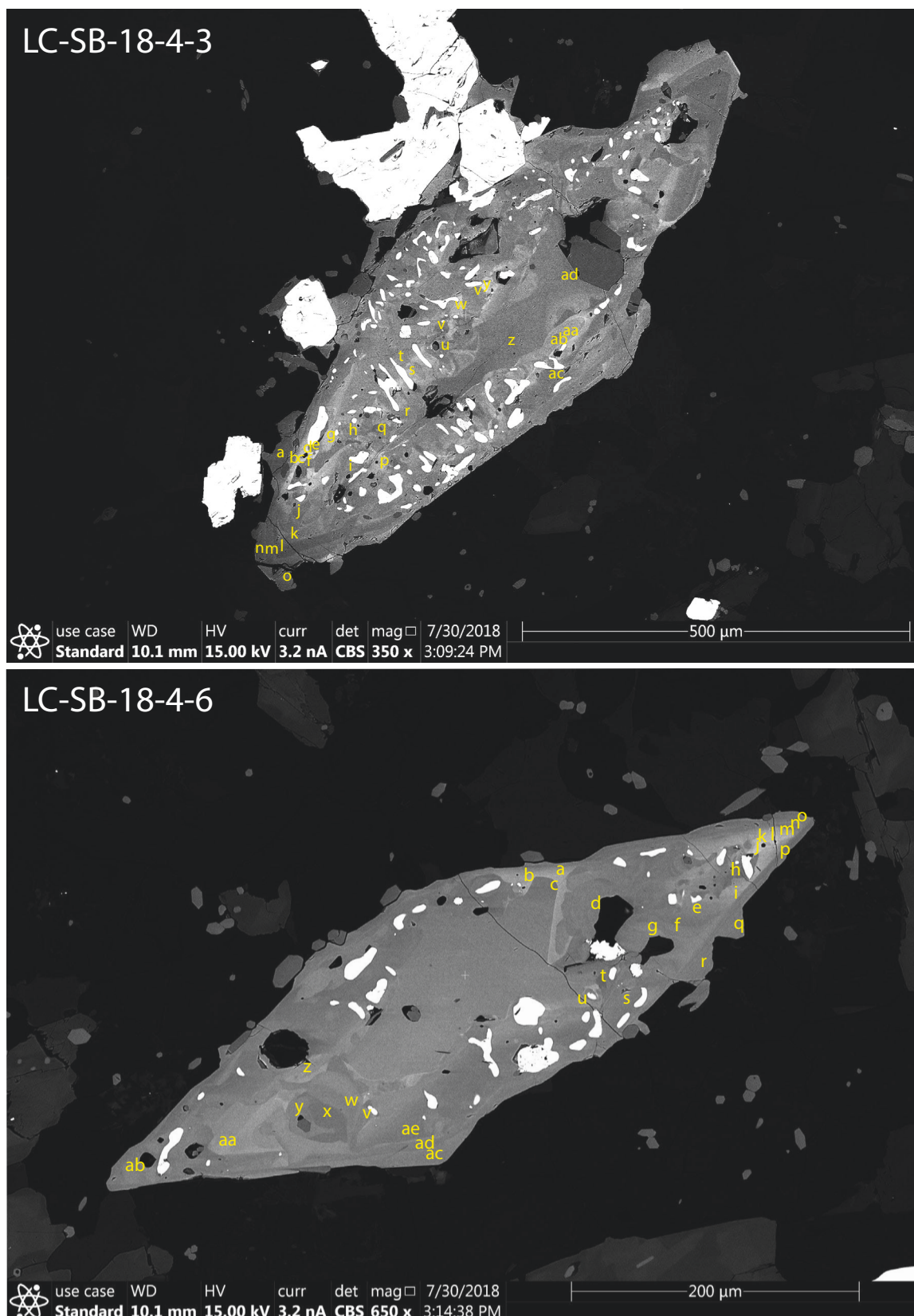


Figure A80. Little Cottonwood enclave titanite grains in LC-SB-18-4-3 and LC-SB-18-4-6 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Snow Bird locality (SB)

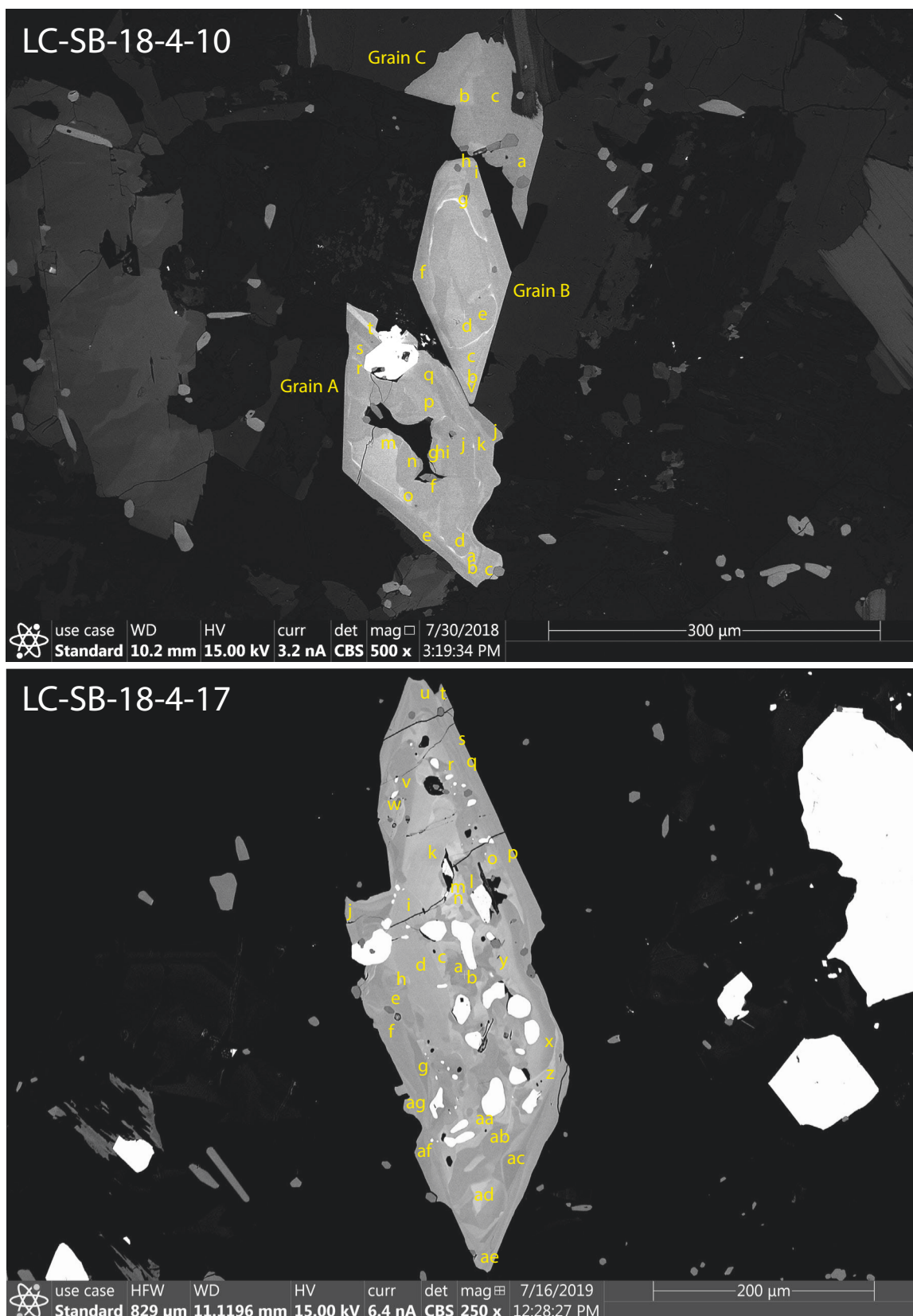


Figure A81. Little Cottonwood enclave titanite grains in LC-SB-18-4-10 and LC-SB-18-4-17 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Snow Bird locality (SB)

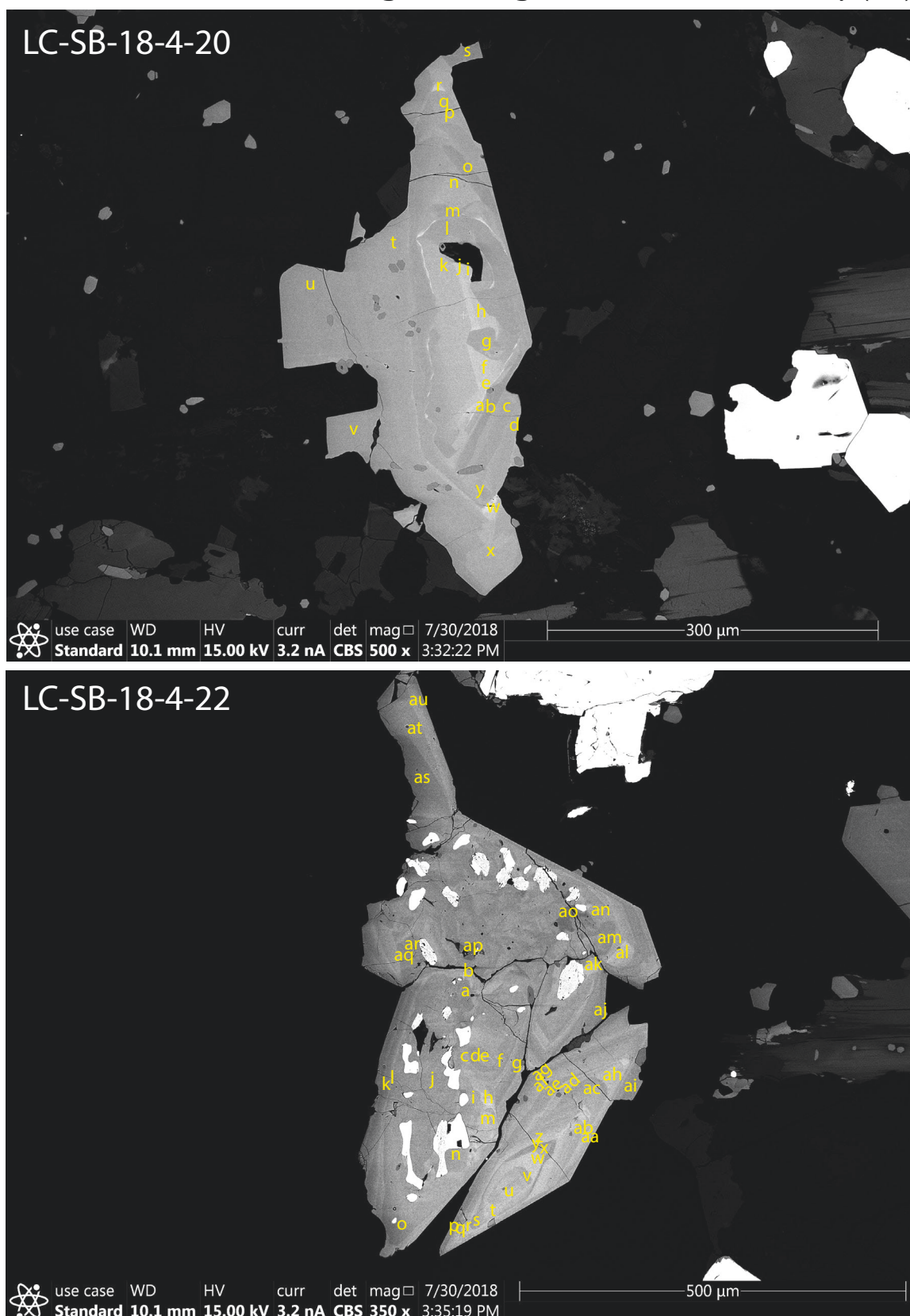


Figure A82. Little Cottonwood enclave titanite grains in LC-SB-18-4-20 and LC-SB-18-4-22 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Snow Bird locality (SB)

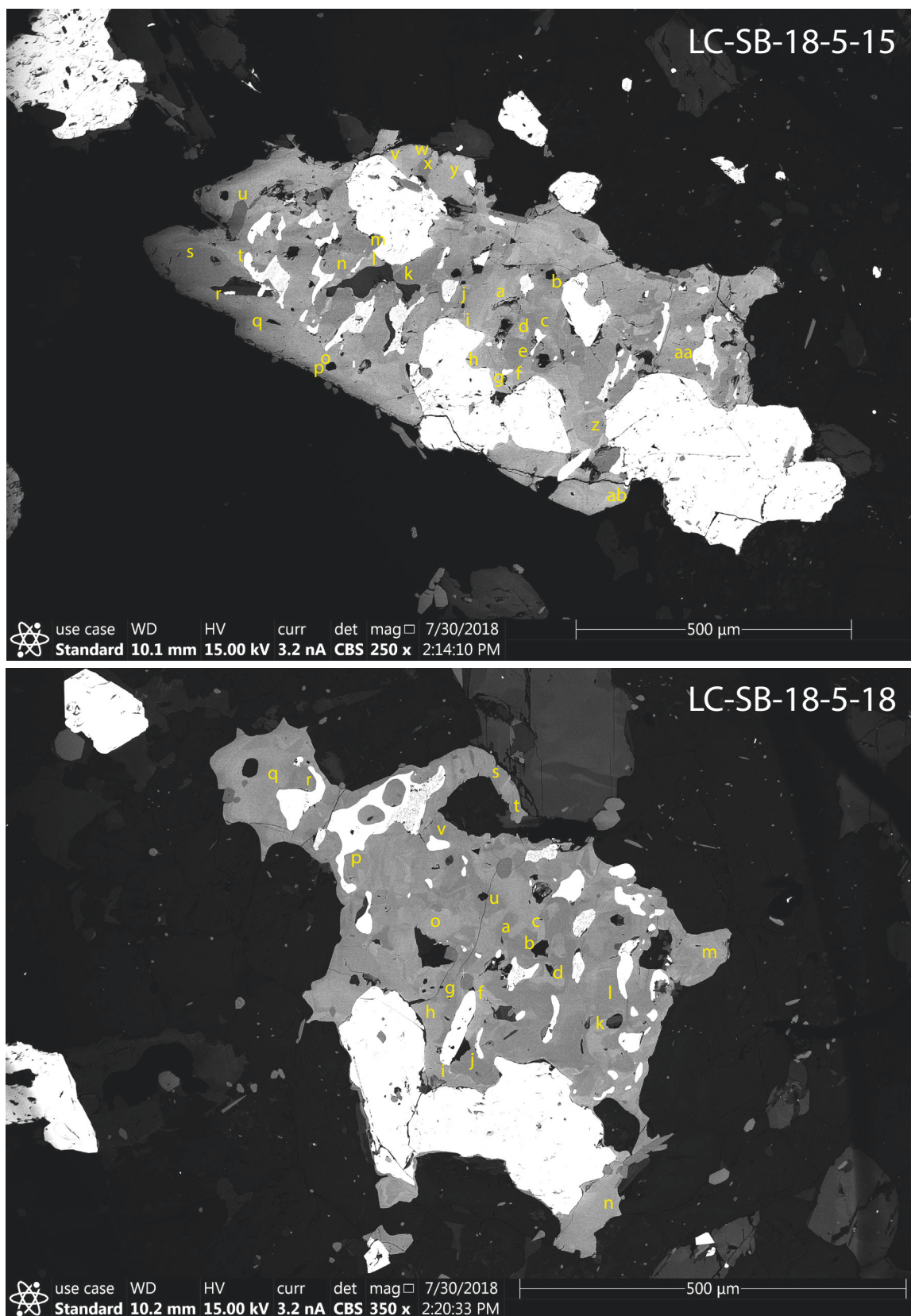


Figure A83. Little Cottonwood enclave titanite grains in LC-SB-18-5-15 and LC-SB-18-5-18 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Snow Bird locality (SB)

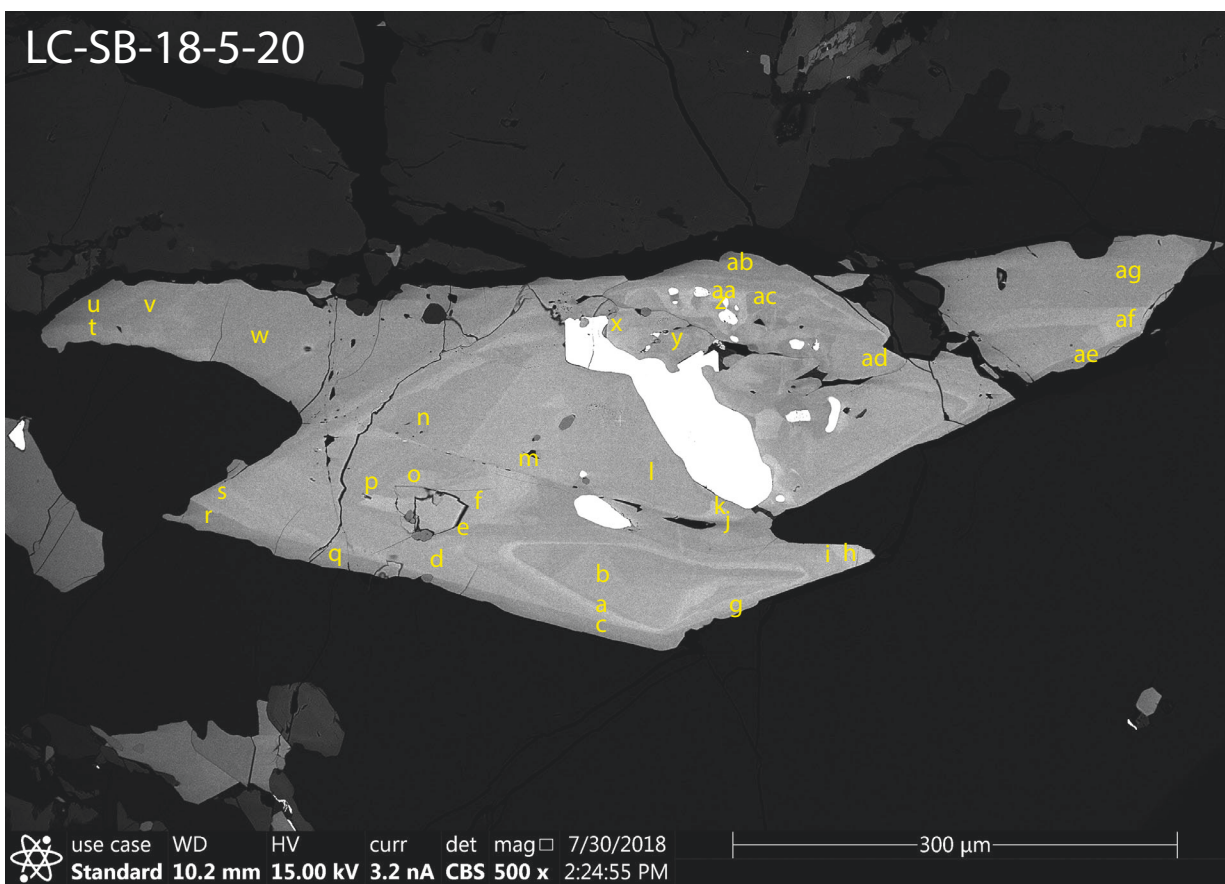


Figure A84. Little Cottonwood enclave titanite grains in LC-SB-18-5-20 with electron microprobe spots (yellow).

Little Cottonwood enclave grain images — Snow Bird locality (SB)

oLC-SB-18-5-1

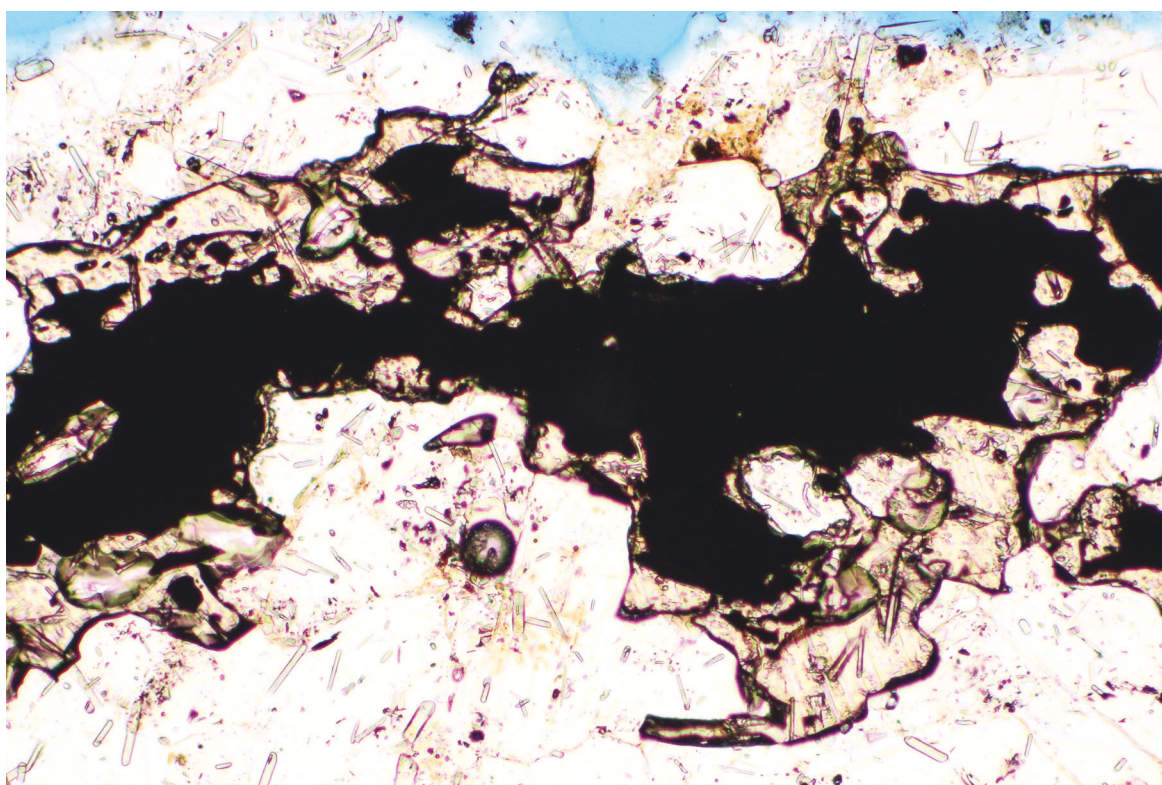
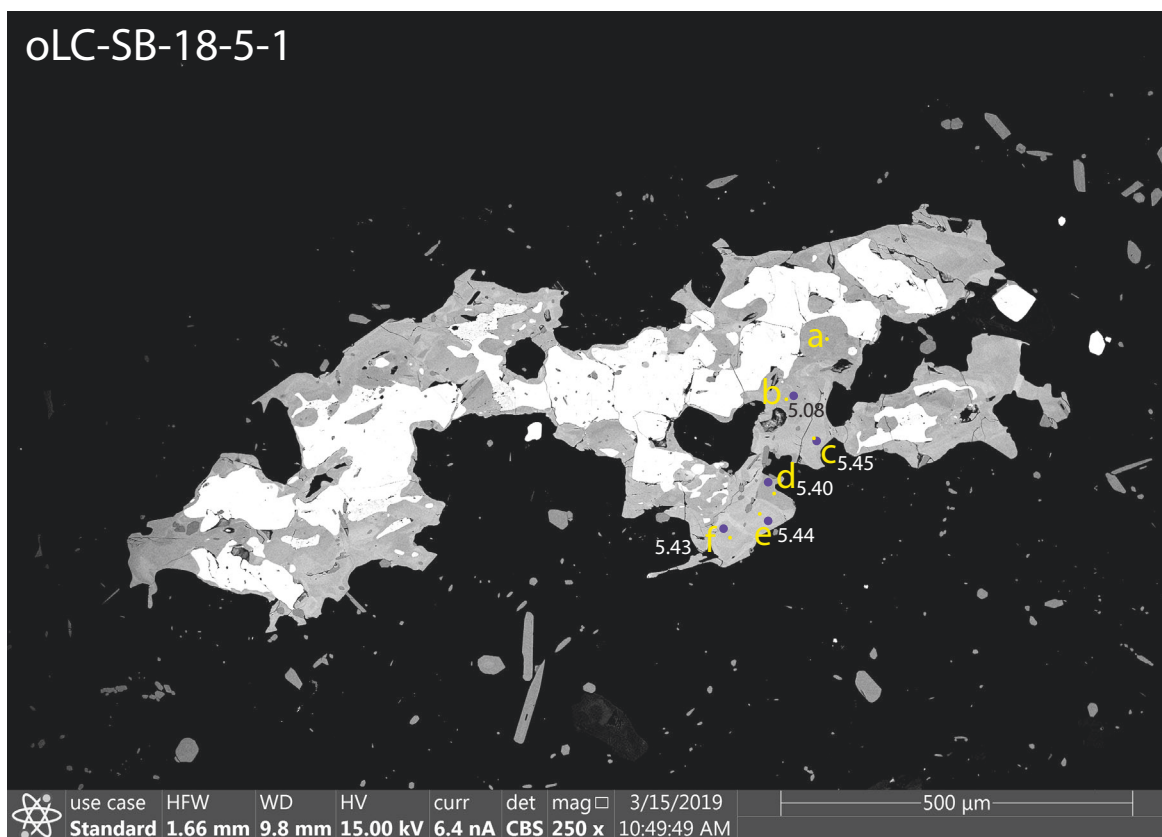


Figure A85. Little Cottonwood enclave titanite grains in oLC-SB-18-5-1 with electron microprobe spots (yellow) and oxygen isotope spots (blue). Plane polarized light photo of part of the image at top. Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood enclave grain images — Snow Bird locality (SB)

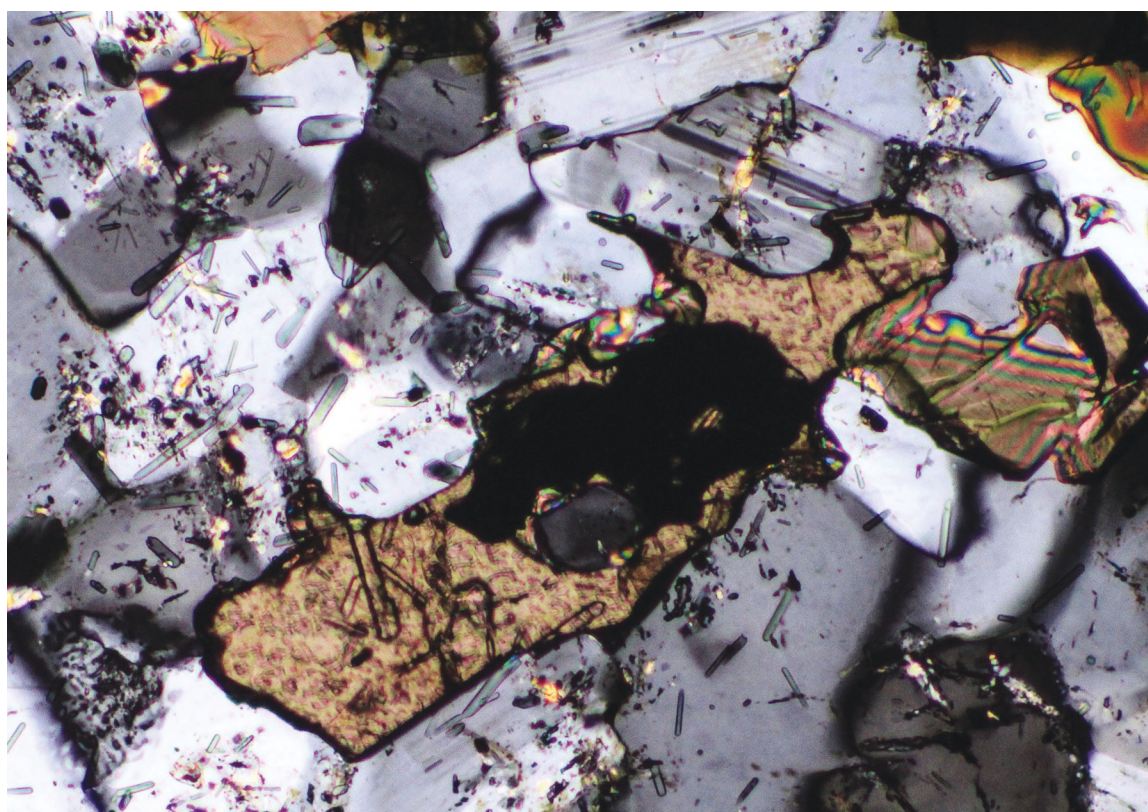
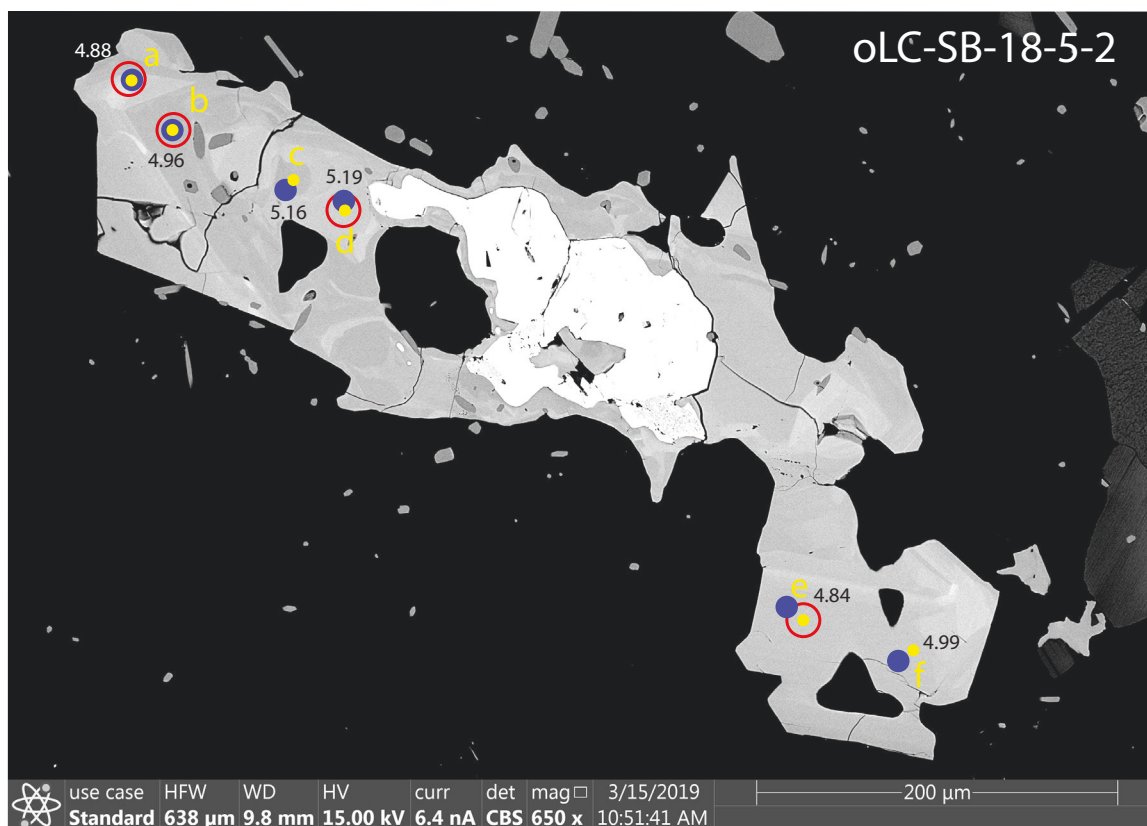


Figure A86. Little Cottonwood enclave titanite grains in oLC-SB-18-5-2 with electron microprobe spots (yellow) and oxygen isotope spots (blue). Cross polarized light photo of the image at top. Numbers are $\delta^{18}\text{O}$ ‰ values.

Little Cottonwood enclave grain images — Snow Bird locality (SB)

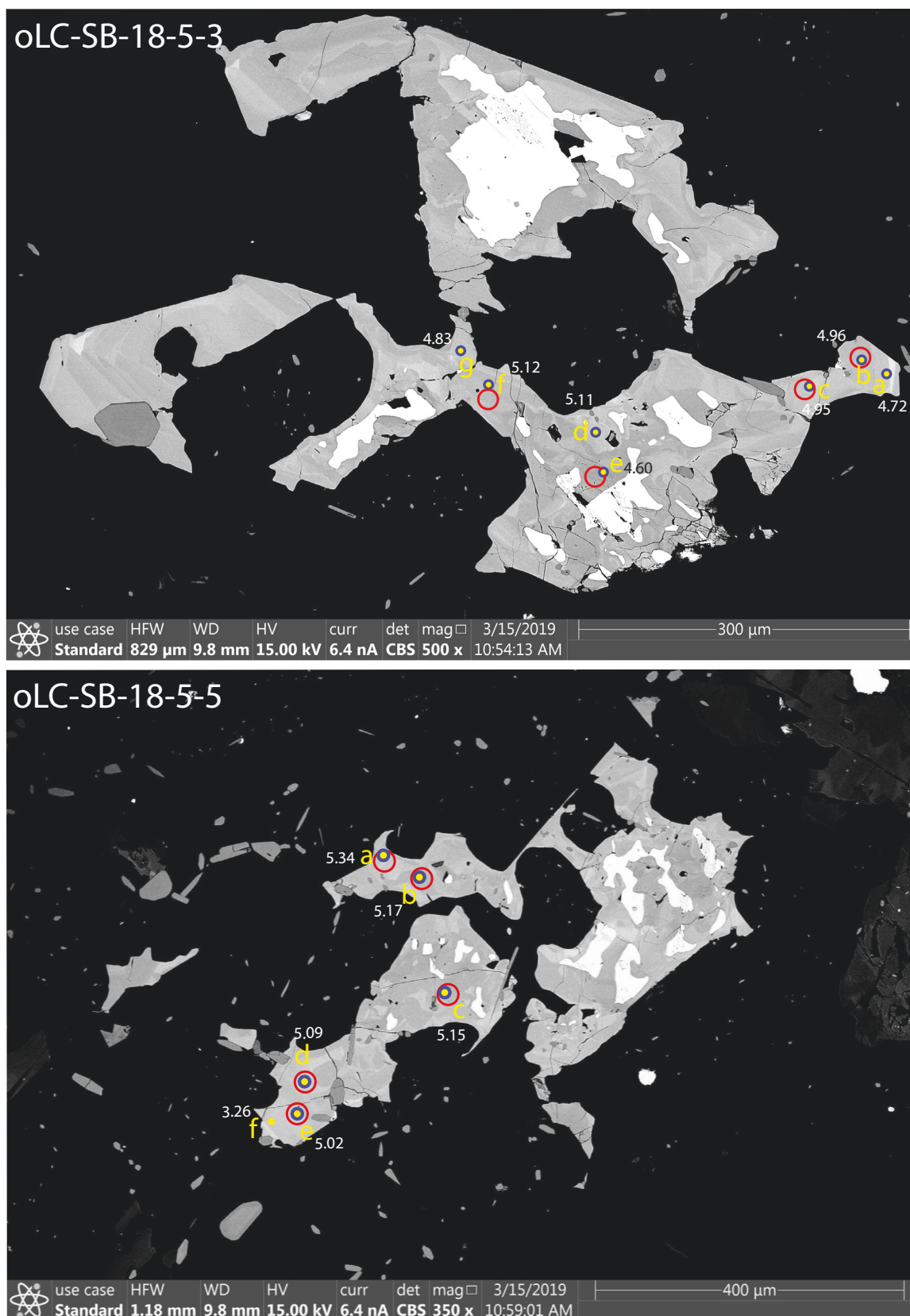


Figure A87. Little Cottonwood enclave titanite grains in oLC-SB-18-5-3 and oLC-SB-18-5-5 with electron microprobe spots (yellow) and oxygen isotope spots (blue). Numbers are $\delta^{18}\text{O}$ ‰ values.

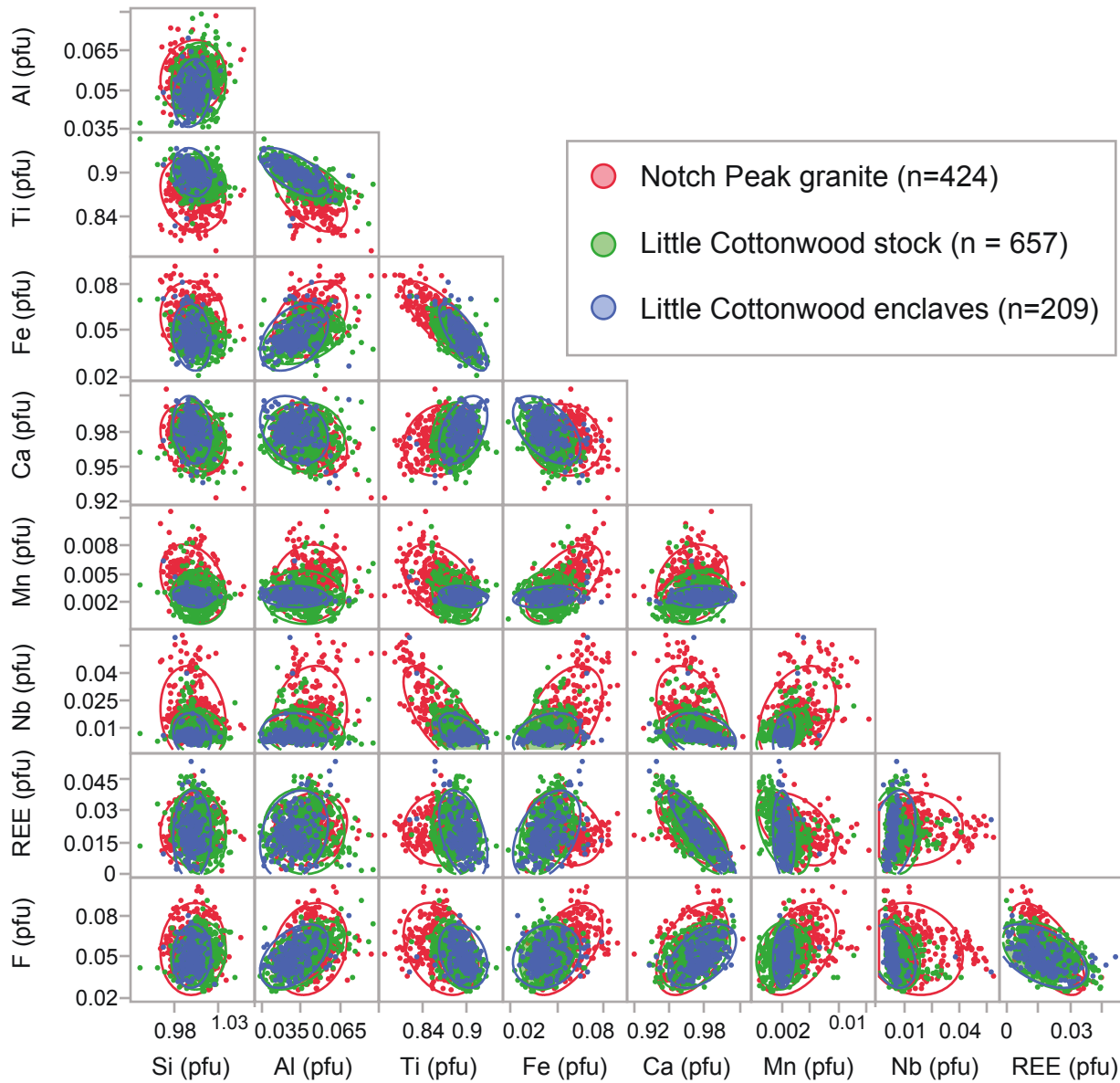


Figure B1. Scatterplot matrix of magmatic titanite compositions from the three localities. The ovals represent a 90% probability contour of primary titanite data. The Little Cottonwood stock and its enclaves are relatively similar, but the spread is smaller for the enclaves. Titanite in the more evolved Notch Peak granite has higher Nb, Mn, Fe and less Ti.

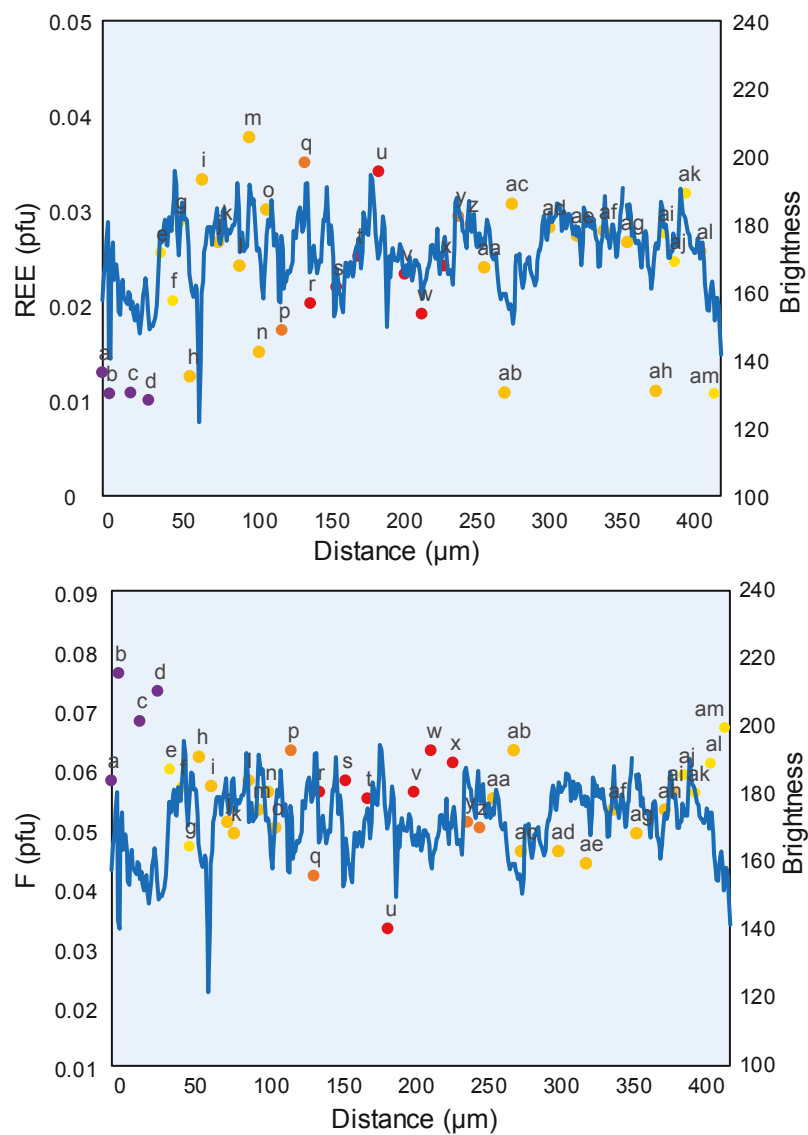
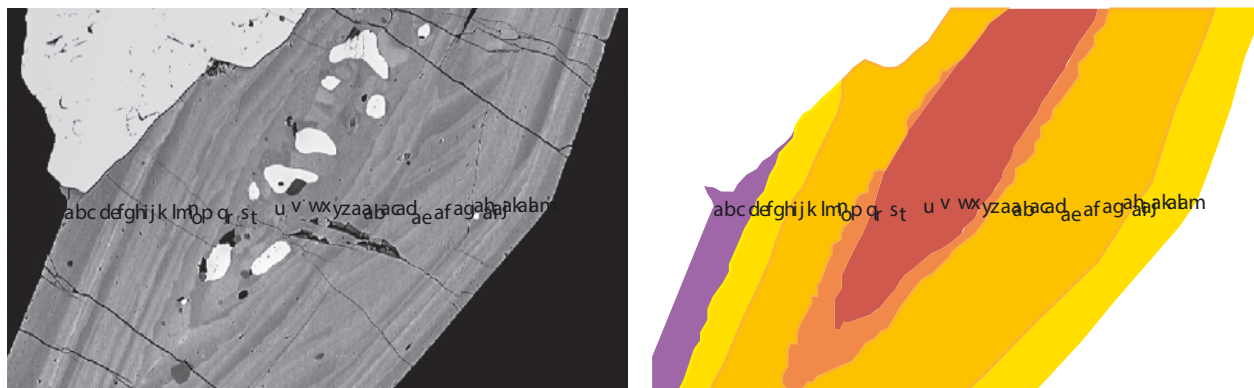


Figure B2. Diagrams for brightness-REE-distance of LC-HFT-1-3. A line of microprobe points was divided into growth zones and plotted against brightness. REE correlate positively with brightness and F correlates negatively. Compositions are shown in figure B3.

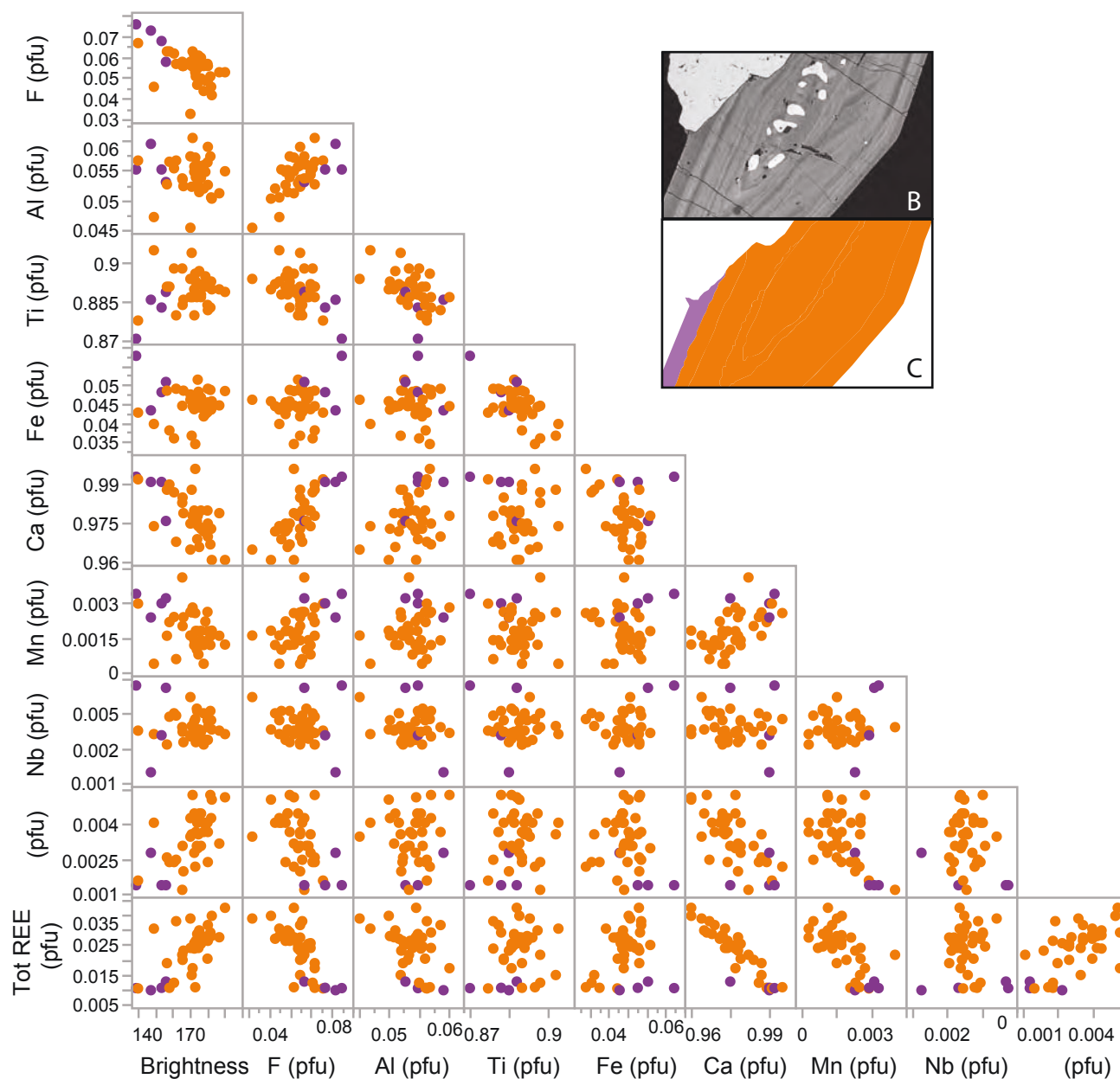


Figure B3. A scatter plot matrix of a line of microprobe points from LC-HFT-1-3 and classified in figure 20. Tot REE and Y have a positive correlation with Brightness. F, Al, Ca have a negative correlation. A reference BSE (B) and growth zone (B) map has been provided.

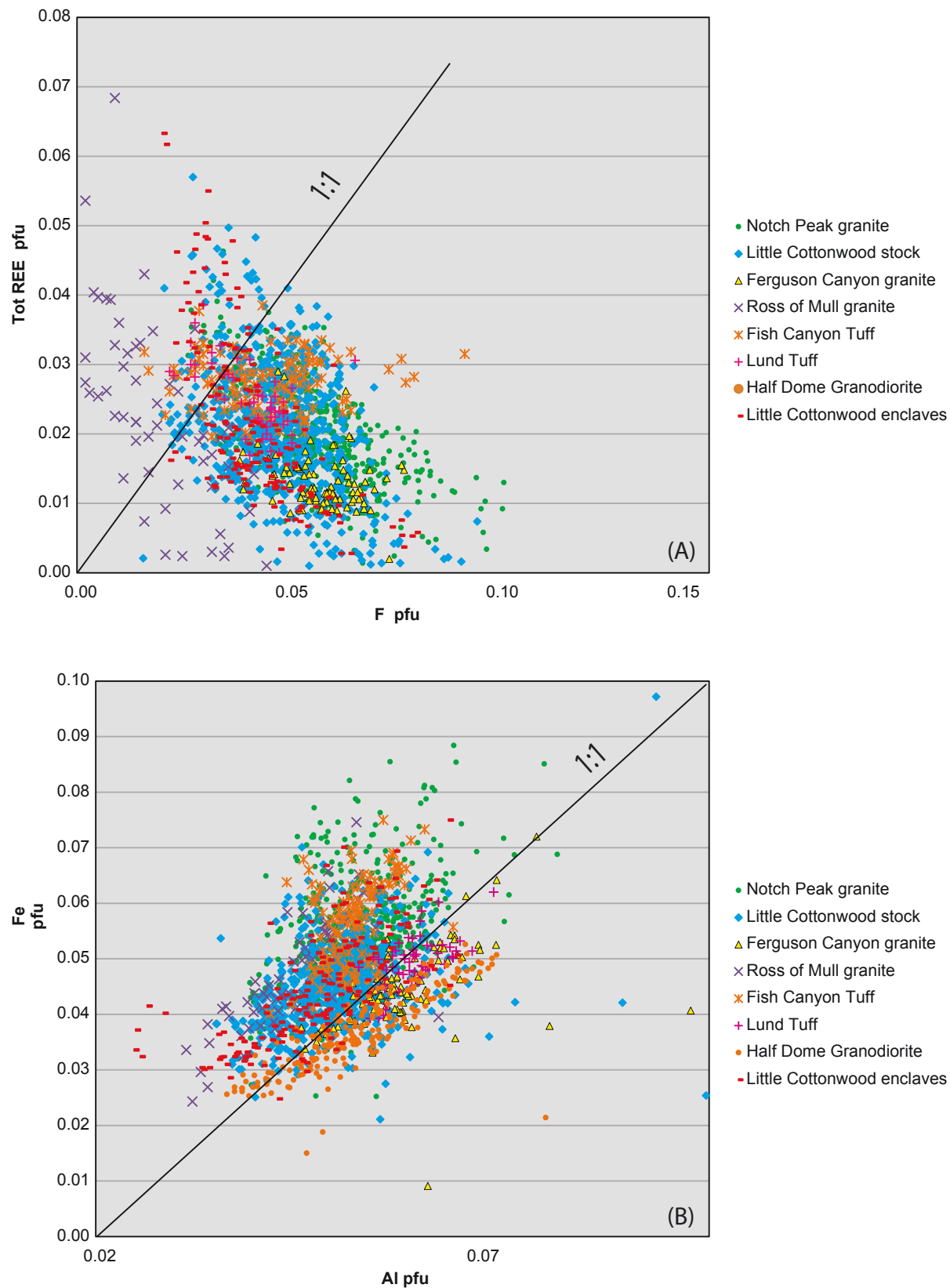


Figure B4. Compositions of titanite are compared in this plot of total REE vs F and Fe vs Al concentration. Data for the Ross of Mull granite are from McLeod et al. (2011) and for the Half Dome Granodiorite from Bauer (2011). The rest of the data are from our own research.

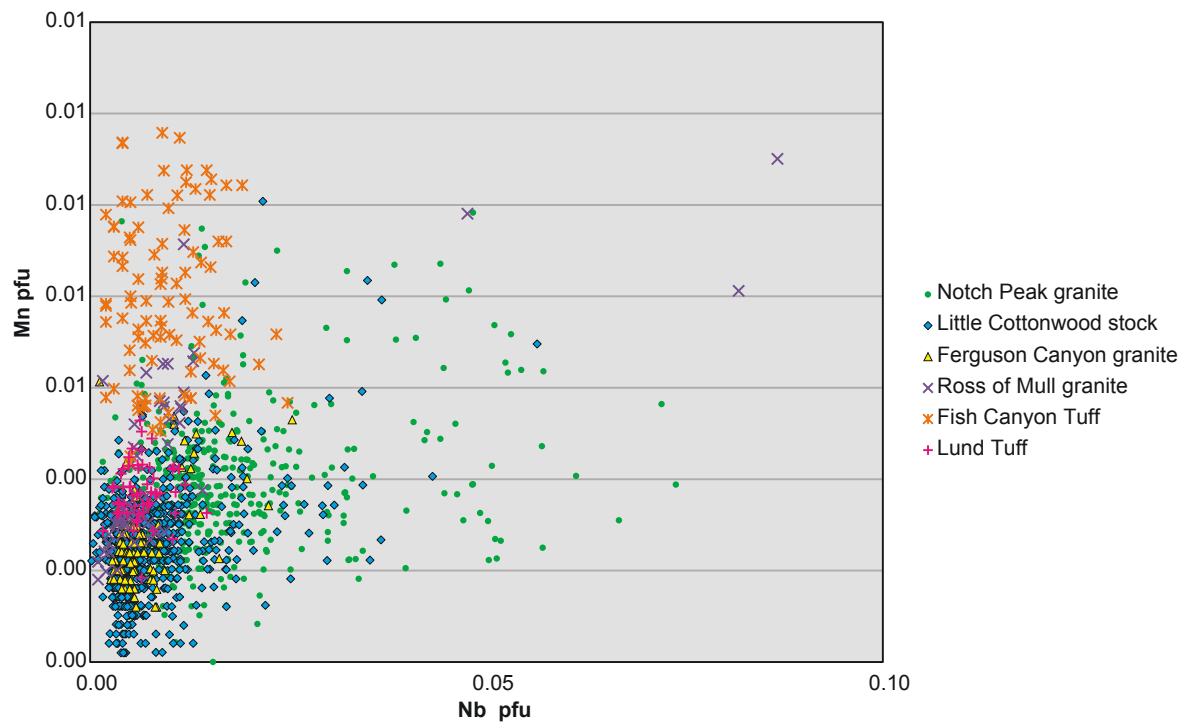


Figure B5. Nb vs Mn concentrations in titanite compared. Data for the Ross of Mull granite are from McLeod et al. (2011) and for the Half Dome Granodiorite from Bauer (2011). The rest of the data are from our own research.

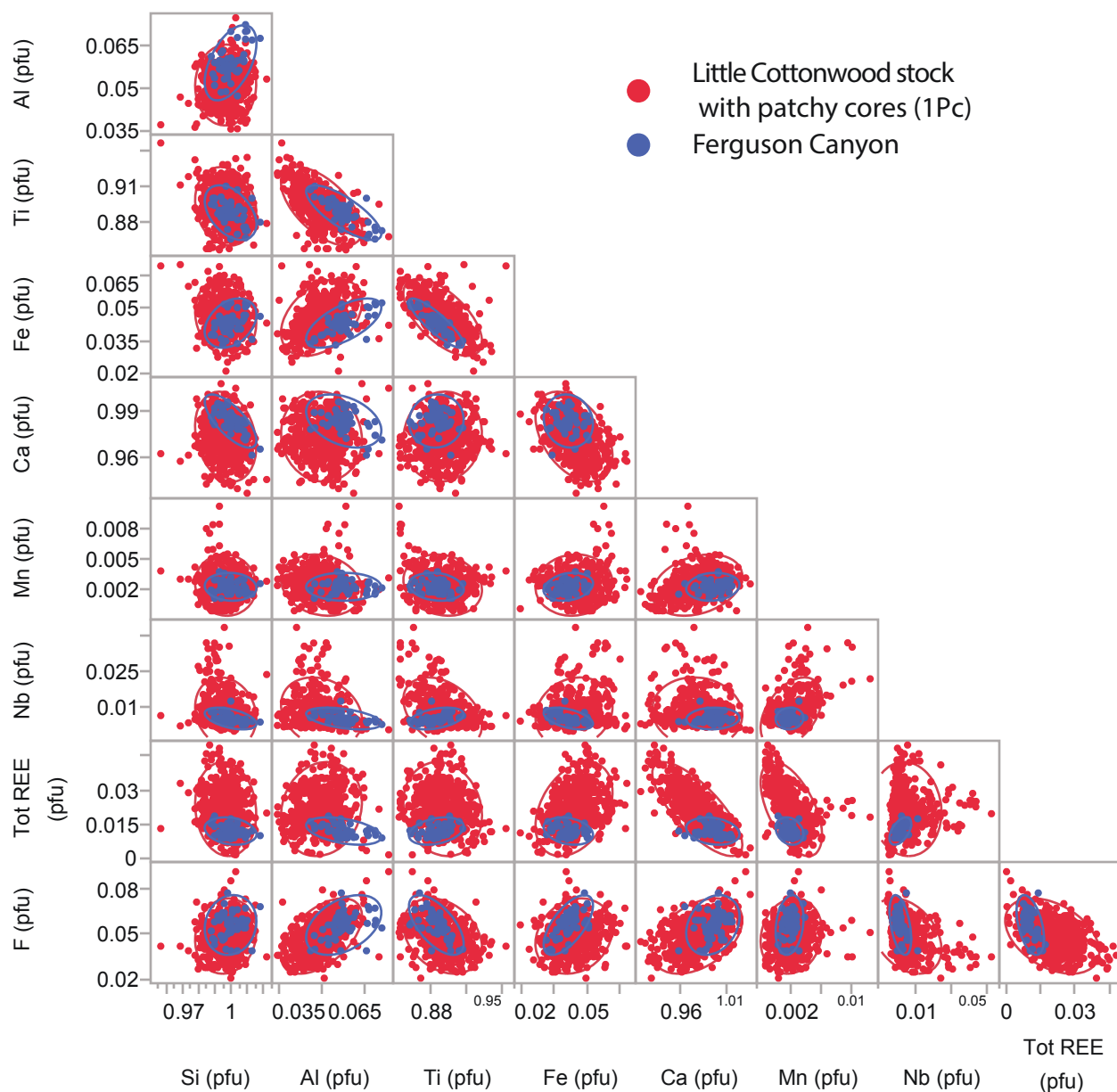


Figure B6. Scatterplot matrix of EMP data for titanite from the Ferguson Canyon intrusion versus titanite with patchy cores (1Pc) from the Little Cottonwood stock. Ferguson Canyon titanite is compositionally similar to that from the Little Cottonwood stock, with the exception of Al which can have slightly higher concentrations. The ovals are 90% confidence intervals.

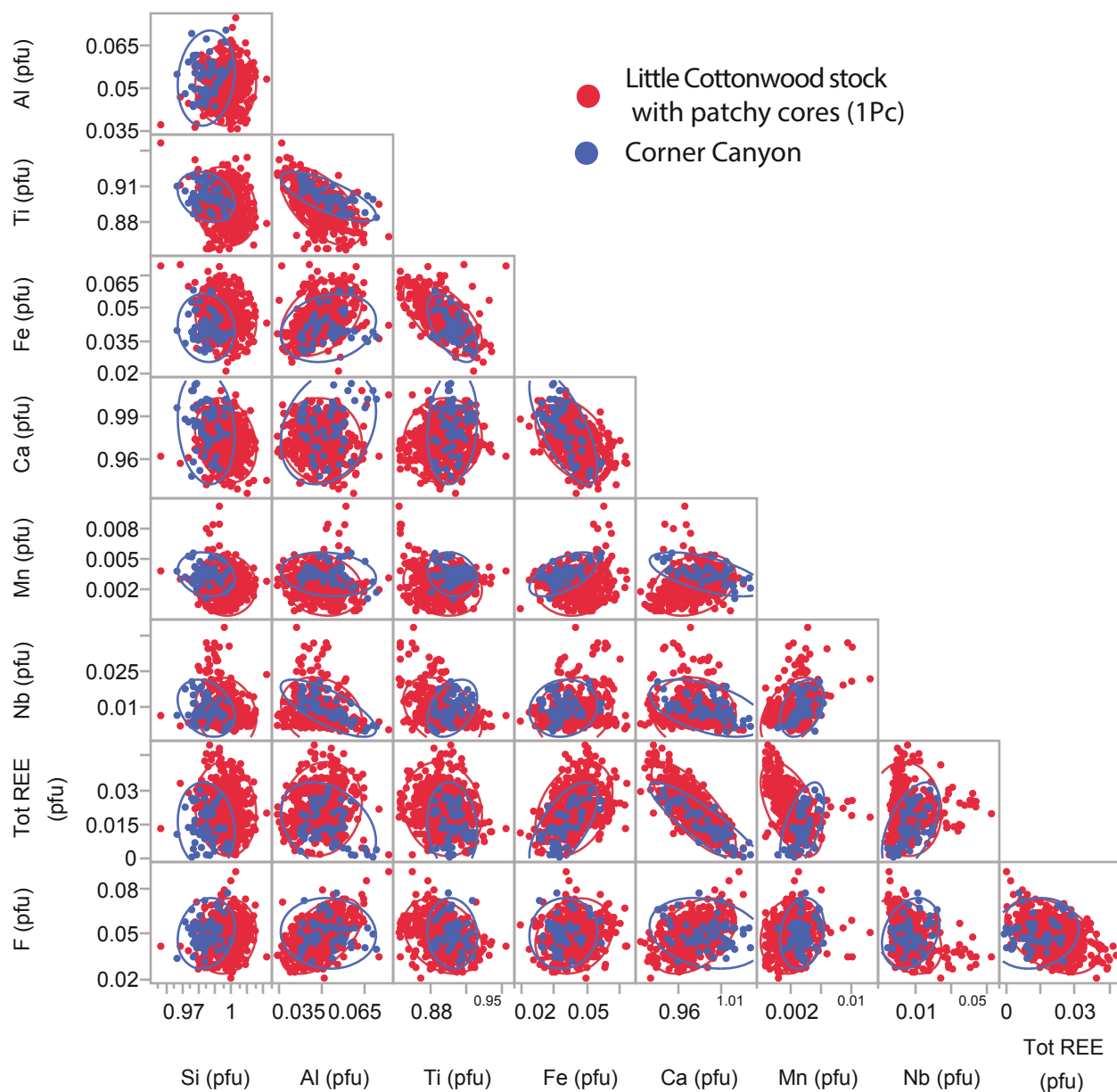


Figure B7. Scatterplot matrix of EMP data for titanite from the Corner Canyon area of the Little Cottonwood stock versus titanite with patchy cores (1Pc) from the rest of the Little Cottonwood stock. Corner Canyon titanite is compositionally similar to the rest of Little Cottonwood, with the exception of lower Si and higher Ca in a few analyses. The ovals are 90% confidence intervals.

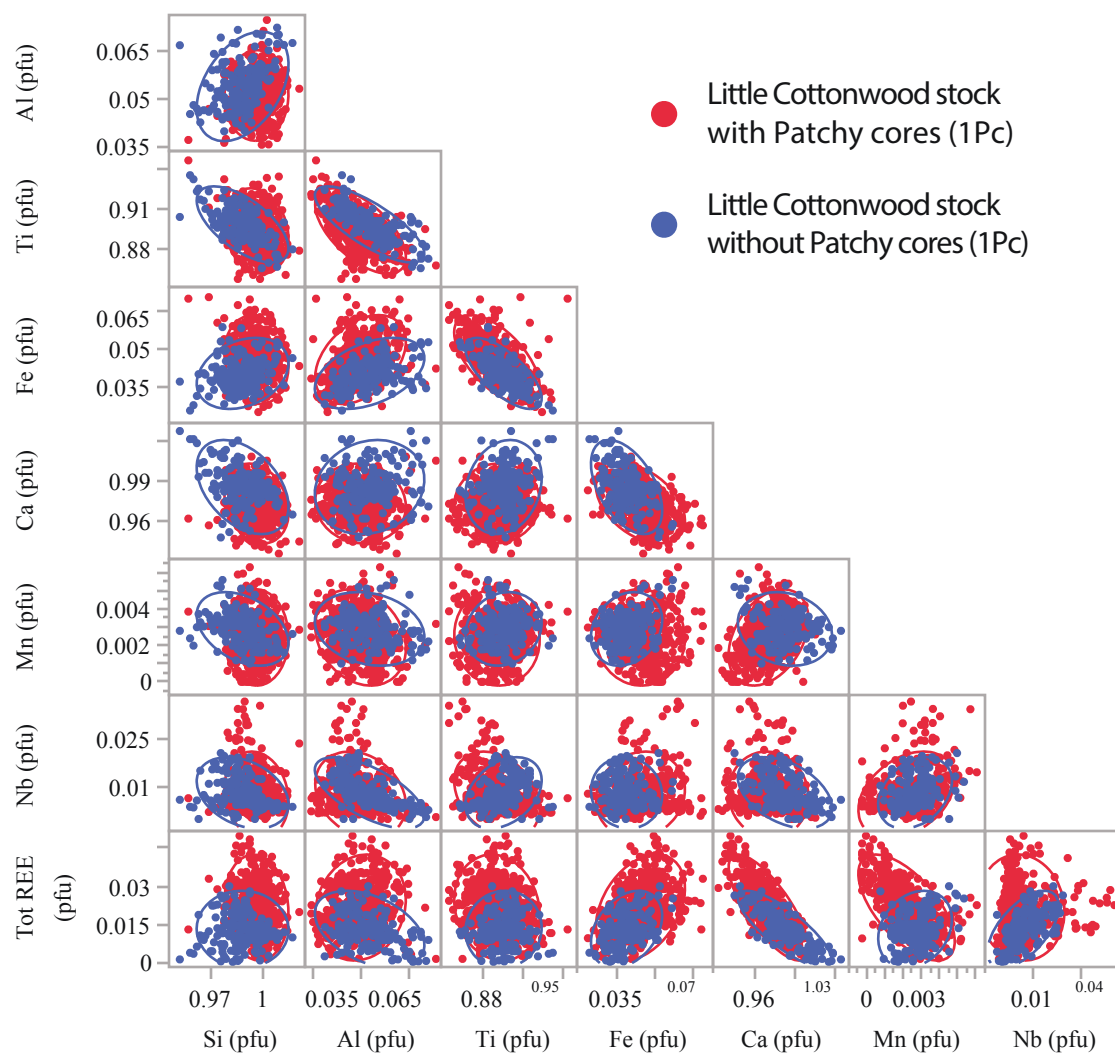


Figure B8. Scatterplot matrix of EMP data for patchy cores (1pc) in titanite vs other types of titanite in the Little Cottonwood stock. Patchy cores (1Pc) tend to have lower Total REE and Si, but higher Ca. The ovals are 90% confidence intervals.

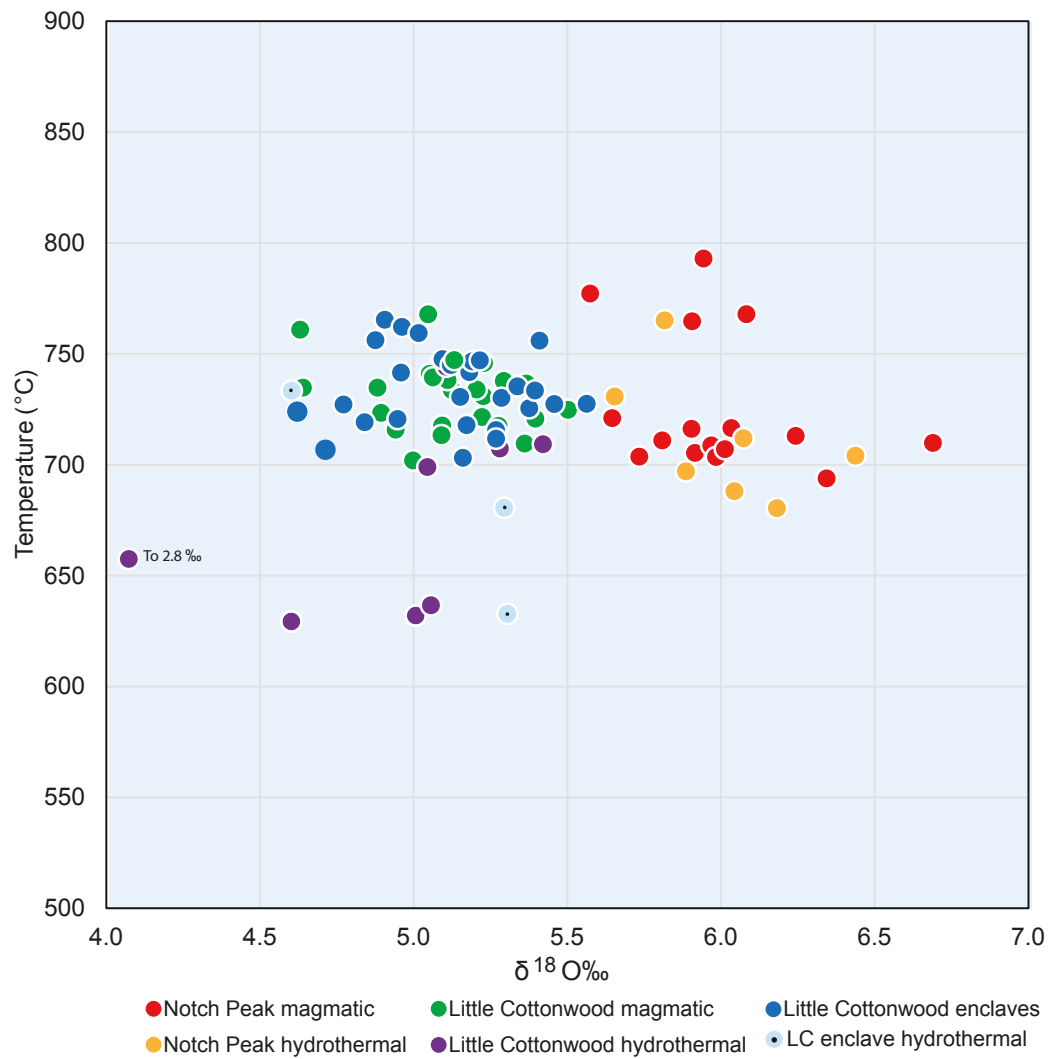


Figure 9. Titanite temperatures vs $\delta^{18}\text{O}$ for titanite in the Little Cottonwood cases, $\delta^{18}\text{O}$ values in the notation of the al titanite in the notation of the al titanite.

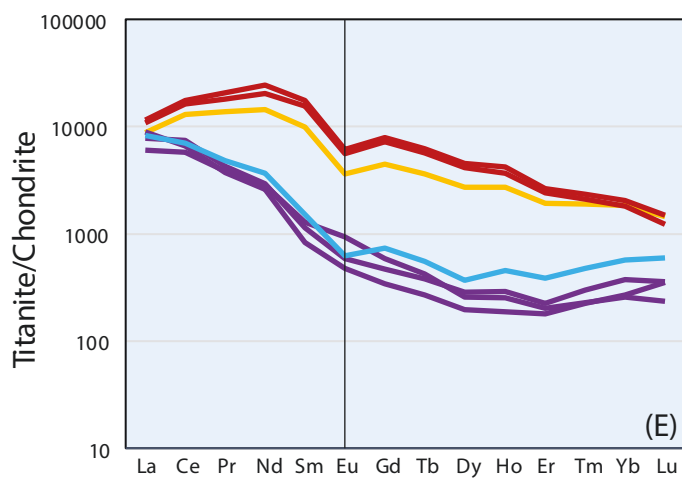
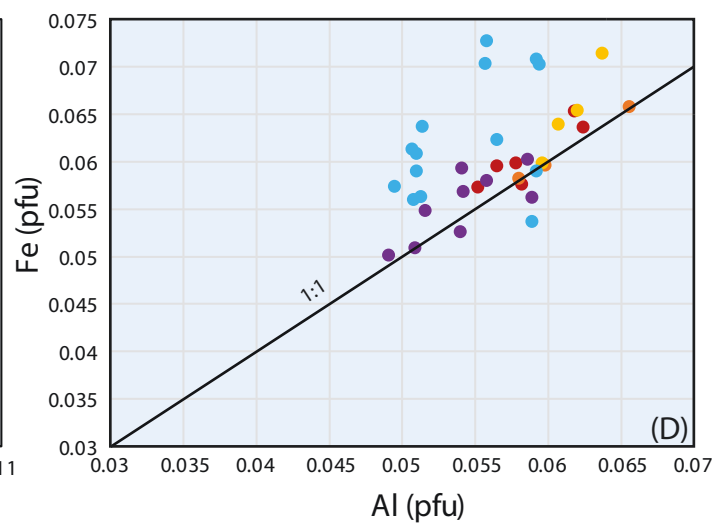
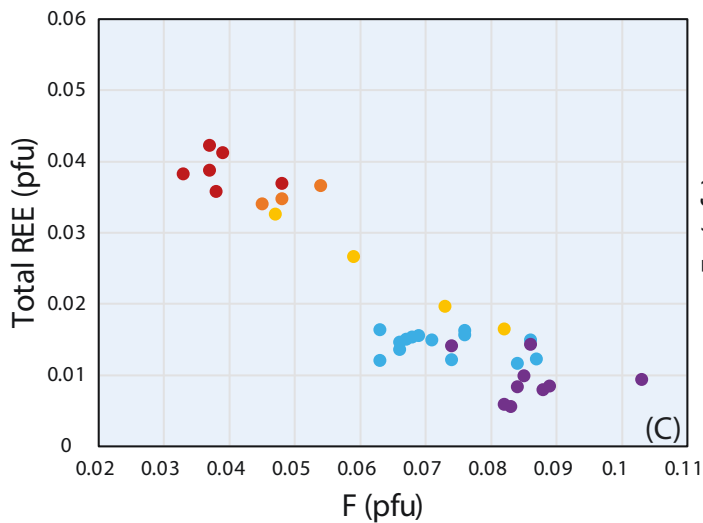
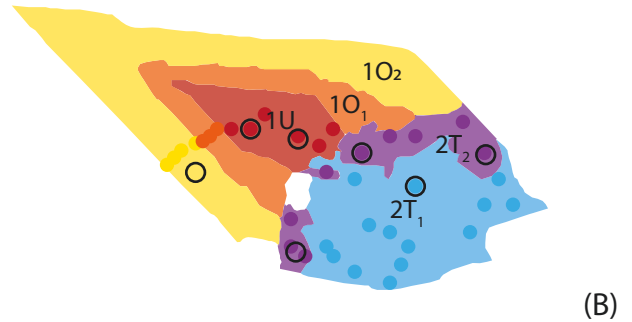
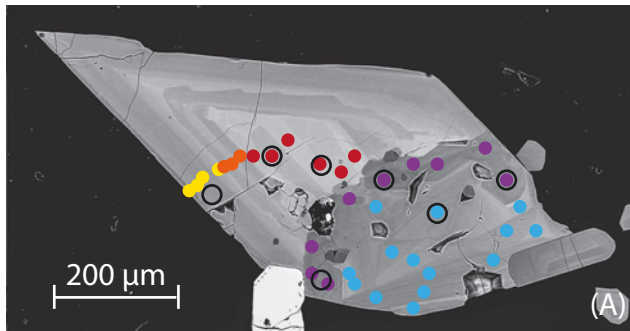


Figure B10. Titanite compositions correlate with the textural types as shown by this grain (NP-6-4) from the Notch Peak granite. Colors represent different zones. (A) BSE image and analytical spots—electron microprobe analysis (colored coded by type of zoning) was followed by laser ablation (black circles). (B) Textural map of the grain reveals two periods of oscillatory growth (1O1 and 1O2) and two types of secondary hydrothermal titanite (2T1 and 2T2). (C) F concentrations increase and REE concentrations decrease from core to rim and are especially low in the secondary zones (2T blue and purple). (D) Fe and Al concentrations overlap for the different types but Fe/Al ratios are higher in the secondary hydrothermal titanite (cyan and purple) and Al extends to lower values for the secondary types. (E) REE patterns. Yellow, orange, and red zones are primary magmatic titanite and have high REE concentrations, lower La/Yb ratios, middle REE enrichment and negative Eu anomalies. The secondary hydrothermal titanite lacks the middle REE enrichment of typical magmatic titanite and lacks negative Eu anomalies in 3 of the 4 analyses.

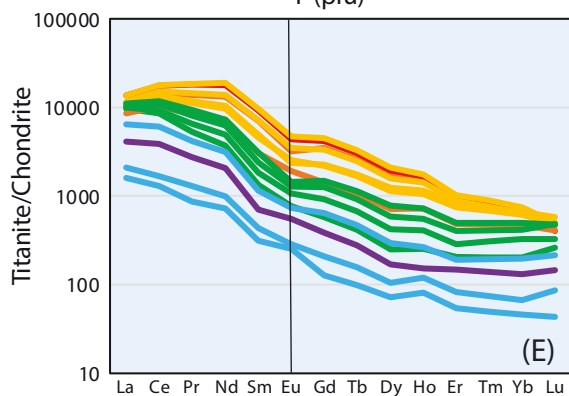
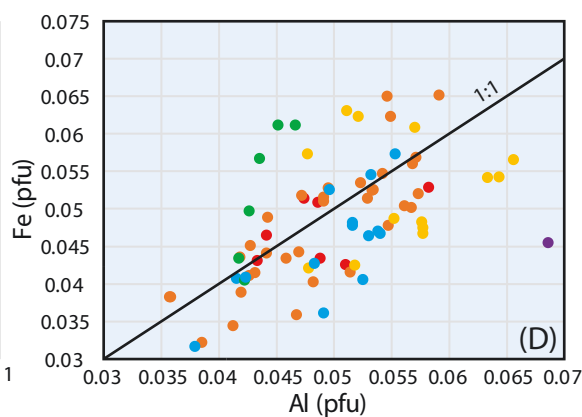
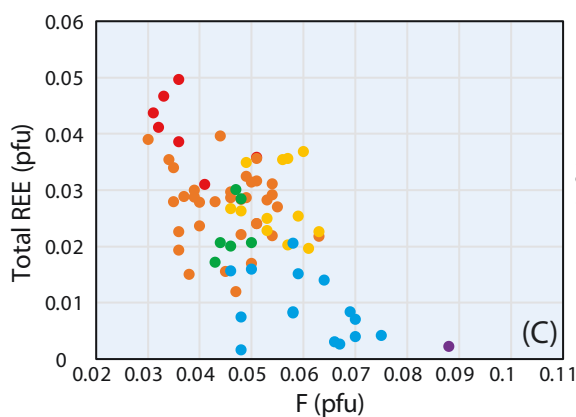
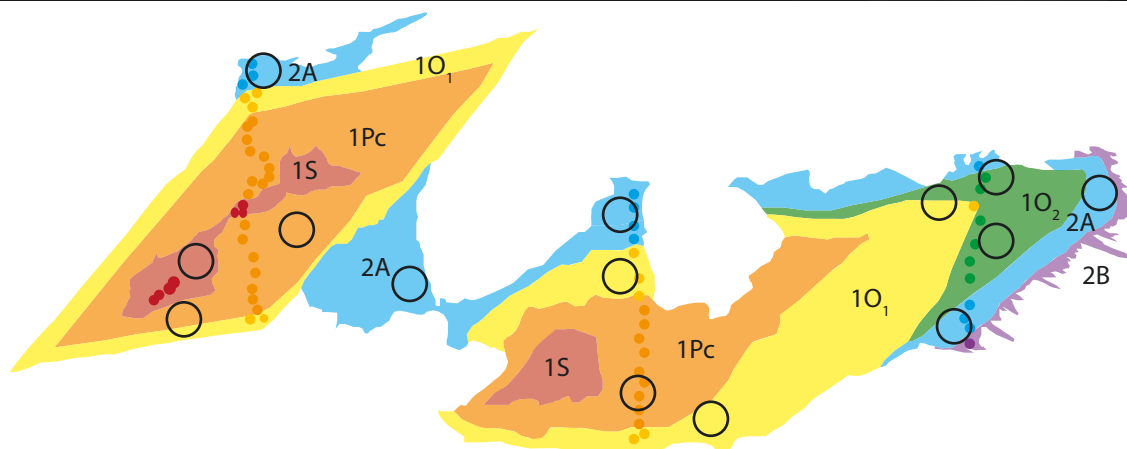
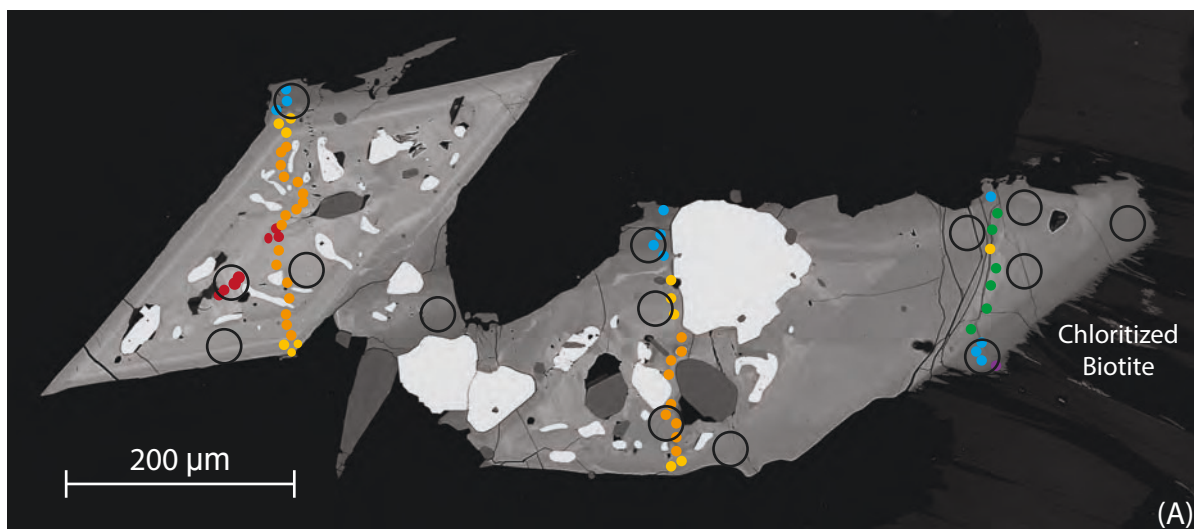


Figure B11. Titanite compositions correlate with the textural types as shown by this grain (LC-SB-4) from the Little Cottonwood stock. (A) BSE image with color coded EMP analytical spots and black circles for LA-ICP-MS analyses. (B) Textural map of the grain showing several periods of magmatic and post-magmatic growth. (C) F concentrations increase and REE concentrations decrease from core to rim, especially in secondary titanite (2A and 2B). (D) Fe and Al concentrations largely overlap for the different types. Titanite replacing biotite (type 2B), however, has low Fe/Al ratios. (E) REE patterns show a decrease in REE concentrations in the last period of oscillatory growth (10_2 green) and in the secondary non-magmatic titanite (cyan 2A and purple 2B). Secondary types also lack negative Eu anomalies.

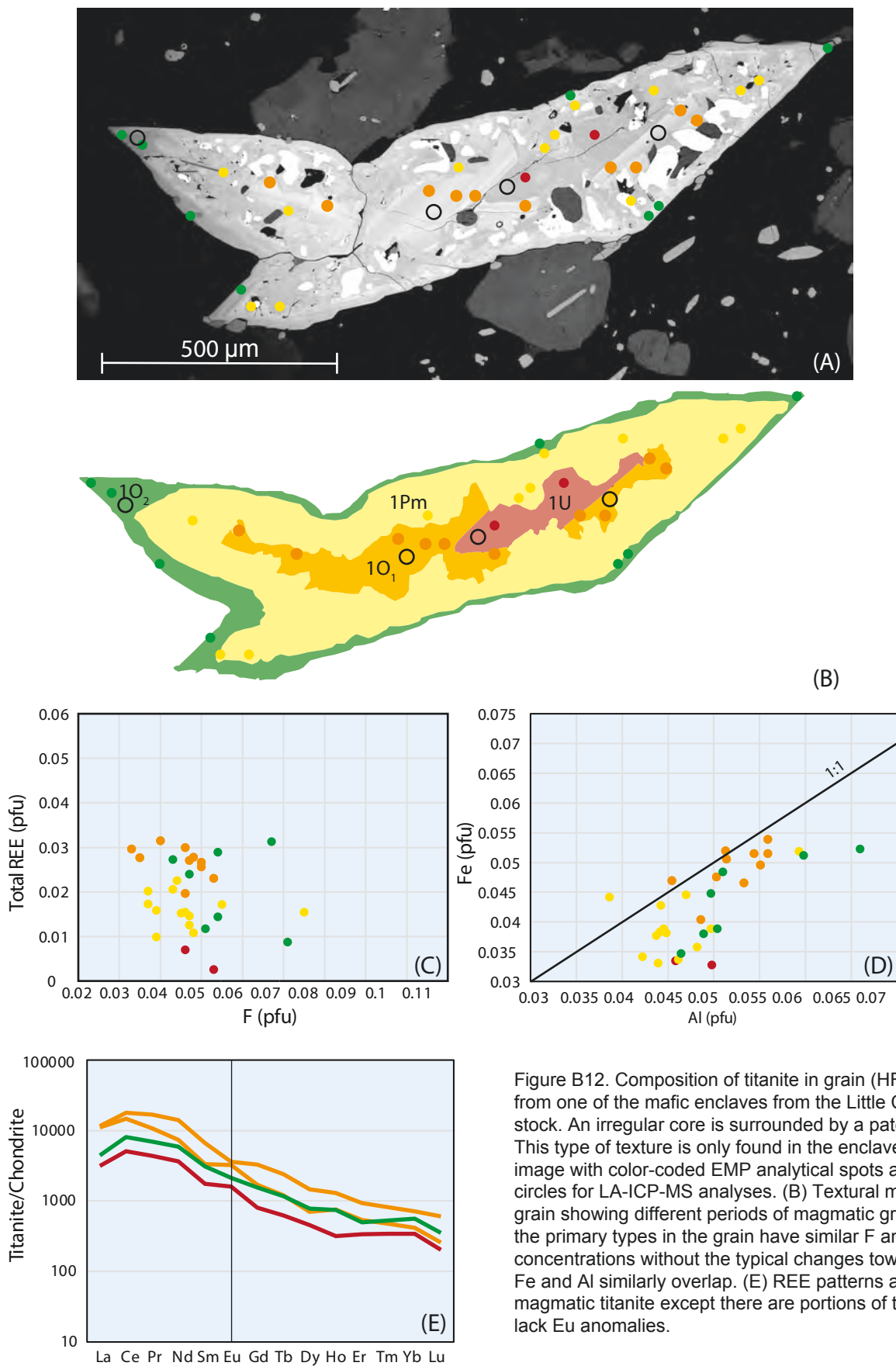


Figure B12. Composition of titanite in grain (HFT-18-2-11) from one of the mafic enclaves from the Little Cottonwood stock. An irregular core is surrounded by a patchy mantle. This type of texture is only found in the enclaves. (A) BSE image with color-coded EMP analytical spots and black circles for LA-ICP-MS analyses. (B) Textural map of the grain showing different periods of magmatic growth. (C) All the primary types in the grain have similar F and REE concentrations without the typical changes toward rim. (D) Fe and Al similarly overlap. (E) REE patterns are typical for magmatic titanite except there are portions of the grain that lack Eu anomalies.

Supplement Table C1. Major and trace element composition of granitic rocks from the Notch Peak granite, F

	Rock Type	Latitude	Longitude	SiO ₂ Weight percent as ana	TiO ₂
<i>Notch Peak granite</i>					
NP-1	Granite	39°10'8.37"N	113°22'44.65"W	75.40	0.24
NP-2	Granite	39°10'46.94"N	113°22'48.78"W	73.10	0.27
NP-3	Granite	39°11'45.75"N	113°22'49.61"W	73.20	0.25
NP-5	Granite	39°10'55.31"N	113°26'16.13"W	73.32	0.26
NP-6	Altered	39° 9'45.18"N	113°25'37.52"W	72.16	0.35
nb-17-1	Granite	Nabelek et al. 1986		73.40	0.25
nb-47-1	Granite	Nabelek et al. 1986		74.25	0.25
nb-65-1	Granite	Nabelek et al. 1986		72.16	0.26
nb-100-1	Granite	Nabelek et al. 1986		73.49	0.27
nb-157-2	Granite	Nabelek et al. 1986		76.41	0.19
nb-175-1	Granite	Nabelek et al. 1986		75.80	0.24
nb-191-1	Granite	Nabelek et al. 1986		74.77	0.27
NP-18-1	Granite	39°13'3.79"N	113°39'3.21"W	76.29	0.06
NP-18-2a	Aplite	39°12'6.27"N	113°39'8.15"W	74.08	0.17
NP-18-3a	Granite	39°15'9.75"N	113°45'0.48"W	74.08	0.28
NP-18-4	Altered	39°15'7.35"N	113°44'9.36"W	70.31	0.59
<i>Ferguson Canyon intrusion</i>					
FC	Granite	40°37'23.33"N	111°46'10.81"W	70.71	0.29
<i>Little Cottonwood stock</i>					
LC-CC	Granodiorite	40°30'39.90"N	111°50'10.20"W	68.91	0.52
LC-HFT	Granodiorite	40°34'18.31"N	111°43'0.12"W	69.41	0.49
LC-SL	Granite	40°31'11.87"N	111°40'26.76"W	71.51	0.32
LC-TQ	Granite	40°34'21.64"N	111°45'45.10"W	72.15	0.35
LC-12	Granodiorite	40°34'29.38"N	111°42'7.62"W		0.47
LC-23	Granodiorite	40°34'13.61"N	111°38'16.10"W	66.26	0.61
LC-27	Granodiorite	40°29'48.23"N	111°49'13.43"W	65.73	0.62
LC-36	Granodiorite	40°31'53.65"N	111°44'44.67"W	67.62	0.57
LC-SB	Granodiorite	40°34'36.62"N	111°40'10.29"W	68.12	0.54
Corner-18-1	Quartz monzonite	40°29'36.07"N	111°49'24.92"W	64.09	0.56
<i>Little Cottonwood mafic enclaves</i>					
SB-18-5	Mafic enclave	40°34'18.31"N	111°43'0.12"W	51.95	1.59
HFT-18-2	Mafic enclave	40°34'18.31"N	111°43'0.12"W	53.32	1.40
HFT-18-3	Mafic enclave	40°34'18.31"N	111°43'0.12"W	50.07	1.52
HFT-18-4	Mafic enclave	40°34'18.31"N	111°43'0.12"W	53.55	1.31
HFT-18-5	Mafic enclave	40°34'18.31"N	111°43'0.12"W	53.02	1.39
HFT-18-6	Mafic enclave	40°34'18.31"N	111°43'0.12"W	53.00	1.34

Note:

Prefix nb denotes that the sample came from Peter Nabelek's collection and the analyses are from Nabelek et al.

erguson Canyon intrusion, and the Little Cottonwood stock, Utah

Major elements XRF (weight percent)								
Al ₂ O ₃	Fe ₂ O ₃	MnO	MgO	CaO	Na ₂ O	K ₂ O	P ₂ O ₅	SubTotal
lyszed								
12.83	1.02	0.04	0.43	1.27	3.00	4.95	0.08	99.26
14.48	1.77	0.03	0.42	1.14	3.79	3.70	0.09	98.79
13.98	1.79	0.03	0.49	1.67	3.43	4.10	0.10	99.04
14.10	1.55	0.04	0.44	1.04	3.24	4.84	0.08	98.91
12.57	2.47	0.06	0.62	1.10	1.98	7.61	0.20	99.12
13.92	1.92	0.02	0.47	1.73	3.70	3.69	0.09	99.19
13.49	1.98	0.03	0.50	1.76	3.56	3.57	0.08	99.47
15.67	1.81	0.04	0.51	1.79	4.18	3.44	0.11	99.97
14.01	2.12	0.03	0.57	1.94	3.76	3.75	0.11	100.05
11.96	1.43	0.03	0.36	0.78	3.49	5.12	0.00	99.77
12.90	1.79	0.03	0.57	1.72	3.95	3.45	0.00	100.45
12.98	1.88	0.04	0.52	1.48	3.35	4.40	0.00	99.69
12.92	0.58	0.01	0.03	0.59	3.98	4.56	0.01	99.03
12.37	1.25	0.06	0.20	1.04	2.13	7.83	0.06	99.19
12.52	1.77	0.08	0.41	0.99	3.38	5.01	0.08	98.60
12.71	3.46	0.12	0.87	1.54	3.19	5.39	0.17	98.35
15.26	2.32	0.05	0.75	2.16	4.54	2.72	0.10	98.90
15.68	3.27	0.04	1.16	1.54	3.56	2.99	0.22	97.89
14.66	3.57	0.06	1.10	2.82	3.65	3.10	0.22	99.08
14.48	2.23	0.05	0.80	1.68	3.53	3.95	0.11	98.66
13.99	2.33	0.05	0.86	2.44	3.48	3.34	0.12	99.11
16.29	2.82	0.04	0.87	2.65	4.07	3.37	0.22	98.51
16.02	3.95	0.05	1.37	3.15	3.96	3.17	0.26	98.80
15.67	4.24	0.08	1.72	3.69	3.50	2.72	0.25	98.22
15.24	3.49	0.05	1.28	3.04	3.47	3.63	0.22	98.61
15.16	3.35	0.05	1.04	2.85	3.62	3.69	0.20	98.62
16.85	3.86	0.06	1.52	3.31	4.14	3.65	0.24	98.28
17.46	9.80	0.15	3.54	5.73	4.92	2.33	0.75	98.22
17.78	8.45	0.13	3.84	5.15	4.54	3.24	0.80	98.65
17.19	10.93	0.19	5.22	6.09	4.26	2.79	0.55	98.81
15.04	8.46	0.19	4.28	6.14	2.60	6.05	1.00	98.62
17.23	9.26	0.16	4.05	5.55	4.31	3.03	0.56	98.56
18.19	8.87	0.15	3.93	5.84	5.21	2.10	0.47	99.10

(1986)

LOI	Analytical' Total (w/ LOI)	SiO2	TiO2	Al2O3	Fe2O3	MnO
Normalized to 100% on a volatile-free basis						
0.35	99.61	75.96	0.24	12.93	1.03	0.04
0.87	99.66	74.00	0.27	14.66	1.79	0.03
0.44	99.48	73.91	0.25	14.12	1.81	0.03
0.63	99.54	74.13	0.26	14.26	1.57	0.04
0.40	99.52	72.80	0.35	12.68	2.49	0.06
	99.19	74.00	0.25	14.03	1.94	0.02
	99.47	74.65	0.25	13.56	1.99	0.03
	99.86	72.18	0.26	15.67	1.81	0.04
	99.93	73.46	0.27	14.00	2.11	0.03
	99.77	76.59	0.19	11.99	1.43	0.03
	100.45	75.46	0.24	12.84	1.78	0.03
	99.69	75.01	0.27	13.02	1.89	0.04
0.31	99.64	77.04	0.06	13.05	0.59	0.01
0.54	100.26	74.69	0.17	12.47	1.26	0.06
0.50	99.60	75.13	0.28	12.70	1.80	0.08
0.56	99.46	71.49	0.60	12.92	3.52	0.12
0.54	99.44	71.50	0.29	15.43	2.35	0.05
1.40	99.29	70.39	0.53	16.02	3.34	0.04
0.48	99.56	70.06	0.49	14.80	3.60	0.06
0.66	99.32	72.48	0.32	14.68	2.26	0.05
0.41	99.52	72.79	0.35	14.12	2.35	0.05
0.75	99.26	0.00	0.48	16.54	2.86	0.04
0.57	99.37	67.07	0.62	16.21	4.00	0.05
0.92	99.14	66.92	0.63	15.95	4.32	0.08
0.46	99.07	68.57	0.58	15.45	3.54	0.05
0.43	99.05	69.07	0.55	15.37	3.40	0.05
1.27	99.55	65.21	0.57	17.15	3.93	0.06
1.30	99.52	52.89	1.62	17.78	9.98	0.15
0.77	99.42	54.05	1.42	18.02	8.57	0.13
0.83	99.64	50.67	1.54	17.40	11.06	0.19
0.68	99.30	54.30	1.33	15.25	8.58	0.19
0.92	99.48	53.79	1.41	17.48	9.40	0.16
0.57	99.67	53.48	1.35	18.36	8.95	0.15

MgO	CaO	Na2O	K2O	P2O5	Total Normalized	LOI	Anal Total	F ppm
0.43	1.28	3.02	4.99	0.08	100.00	0.35	99.61	674
0.43	1.15	3.84	3.75	0.09	100.00	0.87	99.66	742
0.49	1.69	3.46	4.14	0.10	100.00	0.44	99.48	701
0.44	1.05	3.28	4.89	0.08	100.00	0.63	99.54	720
0.63	1.11	2.00	7.68	0.20	100.00	0.40	99.52	692
0.47	1.74	3.73	3.72	0.09	100.00	0.00	99.19	
0.50	1.77	3.58	3.59	0.08	100.00	0.00	99.47	
0.51	1.79	4.18	3.44	0.11	100.00	0.00	99.86	
0.57	1.94	3.76	3.75	0.11	100.00	0.00	99.93	
0.36	0.78	3.50	5.13	0.00	100.00	0.00	99.77	
0.57	1.71	3.93	3.43	0.00	100.00	0.00	100.45	
0.52	1.48	3.36	4.41	0.00	100.00	0.00	99.69	
0.03	0.60	4.02	4.60	0.01	100.00	0.31	99.64	447
0.20	1.05	2.15	7.89	0.06	100.00	0.54	100.26	380
0.42	1.00	3.43	5.08	0.08	100.00	0.50	99.60	1162
0.88	1.57	3.24	5.48	0.17	100.00	0.57	99.46	2020
0.76	2.18	4.59	2.75	0.10	100.00	0.55	99.44	766
1.18	1.57	3.64	3.05	0.23	100.00	1.43	99.29	563
1.11	2.85	3.68	3.13	0.22	100.00	0.48	99.56	951
0.81	1.70	3.58	4.00	0.11	100.00	0.67	99.32	652
0.87	2.46	3.51	3.37	0.13	100.00	0.41	99.52	602
0.88	2.69	4.13	3.42	0.22	31.27	0.76	99.26	785
1.39	3.19	4.01	3.21	0.26	100.00	0.58	99.37	862
1.75	3.76	3.56	2.77	0.25	100.00	0.94	99.14	591
1.30	3.08	3.52	3.68	0.22	100.00	0.47	99.07	787
1.05	2.89	3.67	3.74	0.21	100.00	0.44	99.05	839
1.55	3.37	4.21	3.71	0.24	100.00	1.29	99.55	839
3.60	5.83	5.01	2.37	0.76	100.00	1.32	99.52	1899
3.89	5.22	4.60	3.28	0.81	100.00	0.78	99.42	1598
5.28	6.16	4.31	2.82	0.56	100.00	0.84	99.64	1801
4.34	6.23	2.64	6.13	1.01	100.00	0.69	99.30	1440
4.11	5.63	4.37	3.07	0.57	100.00	0.93	99.48	1705
3.97	5.89	5.26	2.12	0.47	100.00	0.58	99.67	1387

								Trac
Cl ppm	Sc ppm	V ppm	Cr ppm	Ni ppm	Cu ppm	Zn ppm	Ga ppm	Rb ppm
78	3	12	6	5	0	12	15	245
77	4	27	7	7	4	33	18	143
80	4	20	5	5	1	24	16	161
81	3	21	4	4	0	16	16	189
84	3	37	9	6	104	30	14	254
62	0	3	1	3	0	8	19	338
59	3	15	2	3	0	20	14	396
58	2	26	5	5	1	36	17	263
62	5	53	11	7	3	63	19	326
81	4	25	11	8	2	50	21	83
75	5	50	5	11	5	51	18	61
81	6	46	6	8	5	83	21	104
92	4	28	11	11	2	39	18	129
82	5	32	11	11	4	39	17	103
96	6	38	5	6	5	60	21	94
85	7	56	8	9	16	65	21	94
82	8	68	26	18	13	64	19	64
78	7	50	12	10	5	58	20	105
90	7	47	6	8	10	70	20	104
55	7	59	8	11	9	62	20	80
91	18	157	5	16	7	169	31	139
78	14	128	0	17	8	163	28	144
85	26	170	51	34	8	200	30	138
86	30	140	38	26	7	146	23	125
68	24	147	26	25	21	165	28	137
77	21	159	20	15	12	134	28	126

e elements by XRF (in ppm)

Sr ppm	Y ppm	Zr ppm	Nb ppm	Ba ppm	La ppm	Ce ppm	Nd ppm	Sm ppm
262	9	105	28	477	40	64	19	5
317	8	119	16	743	32	51	20	6
356	8	108	16	703	28	45	17	5
309	10	108	24	792	45	71	25	6
206	16	185	38	703	29	57	23	5
14	3	72	40	22	12	21	7	4
98	6	50	29	207	14	30	8	3
95	12	140	39	183	37	64	25	6
123	29	269	64	205	79	146	56	10
848	6	117	6	991	20	44	16	5
597	8	174	8	2166	56	97	39	8
535	8	143	12	569	32	59	25	6
371	8	109	15	968	30	60	21	6
455	10	100	14	1115	23	43	19	5
702	7	134	10	1387	39	70	25	6
698	11	155	13	1558	44	78	31	7
731	17	170	15	2126	51	87	36	8
590	11	138	12	1455	36	67	28	6
595	10	147	14	1374	40	72	30	6
750	14	172	12	2695	67	115	42	9
565	31	282	37	817	106	212	89	16
646	23	282	29	788	122	219	75	15
577	25	230	31	536	80	154	66	12
548	38	335	40	3222	208	360	134	22
597	30	286	34	750	80	168	73	13
530	31	251	23	608	59	133	62	11

Pb ppm	Th ppm	U ppm
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31

24

28

28

40

32

20

24

32

58

6

5

4

5

8

V ppm	Cr ppm	Ga ppm	Rb ppm	Sr ppm
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19

38

30

42

10

10

10

10

15

19

16

17

261

153

197

247

276

340

318

208

220

170

140

170

240

170

220

340

300

410

370

99

320

290

54

30

44

42

21

16

47

79

14

9

9

12

19

29

10

10

15

19

370

254

95

94

32

8

2

32

10

22

83

890

19

24

34

32

22

26

19

29

25

24

14

12

16

9

12

12

13

12

14

15

2

2

3

5

5

3

3

2

3

3

2

56

39

53

10

21

102

614

104

561

100

479

17

18

23

31

17

19

17

23

12

27

14

10

5

5

3

4

5

4

156

130

171

140

150

169

10

0

50

40

30

20

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30

31

24

30

30

136

143

136

121

137

126

574

665

593

560

623

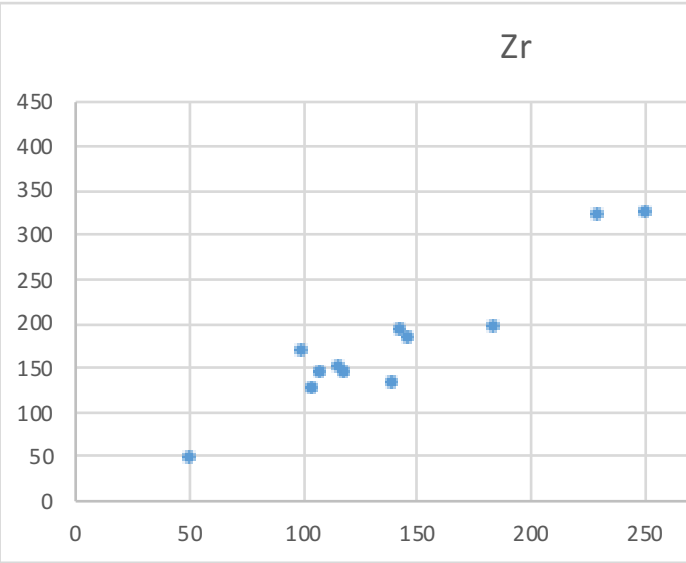
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Trace element ICP-MS (in ppm) and inst								
Y ppm	Zr ppm	Nb ppm	Sn ppm	Cs ppm	Ba ppm	La ppm	Ce ppm	Pr ppm
10	125	27	2	4.1	519	43.2	74	7.4
9	144	16	1	5.1	821	32.3	55	5.6
10	142	24	1	5.4	842	51.5	86	8.5
16	195	38	2	4.5	740	31.2	71	8.5
	140			6.3	540	29.6	52.0	
	140			6.2	530	27.6	48.0	
	120			5.7	490	29.2	58.0	
	150			4.6	710	33.7	61.0	
	190			5.9	220	28.6	61.0	
	130			3.9	450	30.2	58.0	
	130			7.7	620	39.5	81.0	
7	46	29	2	8.9	199	14.7	35	4.1
12	130	40	2	9.9	175	36.3	70	7.4
7	150	8	1	2.1	1110	31.2	58	6.2
8	191	13	1	2.4	623	48.3	88	9.1
10	166	16	1	1.8	1210	30.3	59	6.5
10	182	14	1	1.7	1595	48.4	93	9.9
28	351	38	3	4.9	901	108.5	241	25.7
22	373	29	2	3.3	861	159.5	271	24.9
24	320	31	3	4.1	596	89.1	186	19.1
34	424	40	3	1.7	3510	262.0	443	42.9
28	355	35	3	5.6	813	92.4	208	22.2
29	322	24	2	5.5	675	61.5	164	18.6

Experimental neutron activation (Nabelek et al., 1986)

Nd ppm	Sm ppm	Eu ppm	Gd ppm	Tb ppm	Dy ppm	Ho ppm	Er ppm	Tm ppm
26	3.6	0.9	2.2	0.34	1.6	0.29	1.2	0.16
20	3.1	0.7	2.3	0.28	1.6	0.29	0.9	0.15
29	4.2	0.9	2.7	0.31	1.7	0.31	0.9	0.16
31	5.5	1.0	3.8	0.50	2.9	0.51	1.8	0.23
18	2.45	0.68		0.3				
18	3.16	0.68		0.27				
19	2.57	0.68		0.25				
22	3.22	0.78		0.32				
17	3.02	0.45		0.28				
19	3.31	0.77		0.29				
28	4.67	0.85		0.4				
13	2.4	0.3	1.5	0.19	1.1	0.22	0.8	0.11
26	4.8	0.6	3.1	0.39	2.1	0.37	1.3	0.16
22	3.4	0.8	2.3	0.26	1.2	0.21	0.6	0.09
32	4.6	1.0	3.1	0.34	1.8	0.28	0.7	0.10
23	3.7	0.8	2.6	0.31	1.7	0.31	1.0	0.15
35	5.5	1.2	3.7	0.37	2.0	0.35	1.0	0.11
95	15.1	2.9	10.8	1.26	6.0	1.01	2.5	0.33
83	11.5	2.3	7.9	0.87	4.4	0.75	2.1	0.27
69	10.6	2.3	7.8	0.92	4.6	0.85	2.2	0.31
148	20.7	4.1	13.7	1.48	7.1	1.23	3.1	0.42
81	12.6	2.6	9.1	1.05	5.5	1.00	2.6	0.36
71	11.4	2.3	8.6	1.02	5.8	1.04	2.9	0.40

Yb ppm	Lu ppm	Hf ppm	Ta ppm	Th ppm	U ppm
1	0.23	3.8	1.8	32.8	4.69
1	0.14	3.9	2.1	19.9	5.22
1	0.20	3.8	2.2	35.0	5.61
2	0.31	5.1	2.9	59.3	7.61
1.02	0.18	4	1.7	23	3.8
0.98	0.18	4	1.3	21	4.5
0.98	0.14	3.6	1.4	20	4.5
1.16	0.18	4	1.6	31	4.4
1.4	0.26	4.8	2.7	40	6.7
1.13	0.18	3.8	2	24	4.5
1.19	0.21	3.6	2	37	5.6
1	0.16	1.7	2.2	16.1	4.70
2	0.27	4.1	3.2	46.4	9.30
1	0.09	3.9	0.5	7.1	1.45
1	0.09	5.1	0.7	11.0	4.24
1	0.16	4.5	1.2	20.0	5.45
1	0.12	4.7	0.8	12.6	2.83
2	0.29	8.4	1.6	16.1	4.97
2	0.27	8.7	1.7	21.8	4.37
2	0.29	7.5	1.7	12.1	3.86
3	0.40	10.3	2.4	27.9	4.19
2	0.32	8.5	2.0	14.6	9.13
2	0.38	7.7	1.1	10.2	3.73





Supplement Table C2. Electron microprobe analyses of titanite

Sample	New Texture Class	SiO2 wt%	Al2O3 wt%	TiO2 wt%	MgO wt%
<i>Notch Peak granite, Utah</i>					
NP-1-1b	1O	31.03	2.05	33.15	0.02
NP-1-1c	1O	29.88	1.40	33.43	0.04
NP-1-1d	1O	29.25	1.56	32.17	0.04
NP-1-1e	1O	29.71	1.41	33.56	0.02
NP-1-1f	1O	29.86	1.40	33.45	0.04
NP-1-1g	1O	29.82	1.35	34.04	0.03
NP-1-1h	1O	29.71	1.25	34.01	0.04
NP-1-1i	1O	30.05	1.23	34.30	0.04
NP-1-1j	1O	29.66	1.34	32.88	0.03
NP-1-1k	1U	29.62	1.42	33.68	0.05
NP-1-1l	1U	29.87	1.33	33.88	0.02
NP-1-1m	1U	29.77	1.33	33.79	0.03
NP-1-1n	1U	29.82	1.36	34.12	0.06
NP-1-1o	1U	29.70	1.48	32.99	0.05
NP-1-1p	1U	29.71	1.01	34.12	0.03
NP-1-1q	1U	29.45	1.28	33.16	0.04
NP-1-1r	1U	30.03	1.63	33.84	0.04
NP-1-1s	1U	29.56	1.31	32.52	0.05
NP-1-1t	1U	29.58	1.16	33.33	0.02
NP-1-1u	1U	29.45	1.23	33.20	0.04
NP-1-1v	1U	29.25	1.74	31.87	0.05
NP-1-1w	1U	29.34	1.93	30.61	0.09
NP-1-1x	1U	28.94	1.80	31.73	0.03
NP-1-1y	1U	29.83	1.53	33.61	0.02
NP-1-1z	1U	29.79	1.64	33.49	0.04
NP-1-1aa	1U	29.25	1.61	32.57	0.05
NP-1-1ab	1U	29.07	1.82	30.84	0.03
NP-1-1ac	1U	29.63	1.49	33.08	0.02
NP-1-1ad	1U	29.58	1.40	33.62	0.01
NP-1-1ae	1U	29.78	1.20	35.22	0.02
NP-1-1af	1U	30.74	1.37	35.07	0.02
NP-1-1ah	1O	29.83	1.39	33.98	0.03
NP-1-1ai	1O	29.20	1.55	32.08	0.07
NP-1-1aj	1O	28.90	1.64	31.15	0.05
NP-1-1ak	1O	29.15	1.55	32.64	0.06
NP-1-1al	1O	29.16	1.55	32.28	0.05
NP-1-1am	1O	29.35	1.41	32.68	0.03
NP-1-2a	1U	29.93	1.45	34.39	0.07
NP-1-2b	1U	29.05	1.46	32.66	0.03
NP-1-2c	1U	29.34	1.48	32.28	0.03
NP-1-2d	1U	29.71	1.29	34.39	0.03
NP-1-2e	1U	29.68	1.20	34.44	0.03
NP-1-2f	1U	29.31	1.22	33.48	0.03
NP-1-2e	1U	29.62	1.20	33.50	0.01

NP-1-2g	1U	29.56	1.17	33.61	0.03
NP-1-2h	1U	29.69	1.07	34.04	0.02
NP-1-2i	1U	29.78	1.34	33.80	0.05
NP-1-2j	1U	29.61	1.37	34.19	0.02
NP-1-2j	1U	29.42	1.43	33.94	0.03
NP-1-2l	1U	29.68	1.43	33.95	0.04
NP-1-2m	1U	29.58	1.42	34.03	0.01
NP-1-2n	1U	29.83	1.58	34.29	0.03
NP-1-2o	1U	28.65	1.55	32.48	0.05
NP-1-2p	1U	29.02	1.67	32.27	0.05
NP-1-2q	1U	29.59	1.57	34.17	0.04
NP-1-2r	1U	29.67	1.50	34.79	0.02
NP-1-2s	1U	29.14	1.55	31.87	0.06
NP-1-2T	1U	29.23	1.53	33.22	0.04
NP-1-2u	1O	29.85	1.45	34.25	0.02
NP-1-2v	1O	29.31	1.47	33.79	0.03
NP-1-2w	1O	29.75	1.47	34.41	0.04
NP-1-2x	1O	29.56	1.46	34.04	0.02
NP-1-2y	1U	29.63	1.61	33.75	0.03
NP-1-2z	1U	29.35	1.57	34.06	0.03
NP-1-2aa	1U	29.53	1.56	34.25	0.03
NP-1-2ab	1S	29.54	1.54	34.08	0.02
NP-1-2ac	1S	29.56	1.44	34.37	0.02
NP-1-2ad	1U	29.49	1.65	33.64	0.04
NP-1-2ae	1U	29.47	1.66	33.89	0.04
NP-1-2af	1U	29.83	1.52	33.59	0.03
NP-1-2ag	1U	29.49	1.58	33.93	0.01
NP-1-2ag	1U	29.53	1.48	34.64	0.02
NP-1-4a	1U	29.32	1.37	33.72	0.04
NP-1-4b	1U	29.15	1.22	34.34	0.01
NP-1-4c	1U	29.37	1.38	34.43	0.00
NP-1-4d	1U	29.16	1.35	34.37	0.00
NP-1-4e	1O	29.72	1.34	33.84	0.02
NP-1-4f	1O	29.28	1.21	35.13	0.02
NP-1-4g	1U	29.21	1.50	32.46	0.04
NP-1-4h	2T	30.13	1.87	33.45	0.02
NP-1-4j	1O	28.74	1.65	30.47	0.01
NP-1-4j	1O	29.77	1.47	34.37	0.03
NP-1-4k	2T	29.96	1.37	35.67	0.01
NP-1-4l	1U	29.42	1.37	34.81	0.02
NP-1-4m	1U	29.11	1.25	34.89	0.02
NP-1-4n	1U	29.26	1.26	34.47	0.03
NP-1-4o	1S	27.51	1.35	32.10	0.04
NP-1-4p	1S	28.92	1.33	34.58	0.03
NP-1-4q	2T	29.62	1.28	34.95	0.02
NP-1-4r	1S	29.30	1.49	33.60	0.13
NP-1-4s	1U	29.42	1.27	35.02	0.02

NP-1-4t	1U	29.24	1.23	34.50	0.03
NP-1-4u	1U	29.10	1.25	35.18	0.02
NP-1-4v	1U	29.46	1.33	35.24	0.03
NP-1-4w	2T	29.61	1.29	35.78	0.03
NP-1-4x	1U	29.31	1.32	35.46	0.02
NP-1-4y	1S	28.95	1.28	34.82	0.00
NP-1-4z	1S	29.14	1.30	34.74	0.03
NP-1-4aa	1O	29.09	1.44	34.07	0.02
NP-1-4ab	1O	29.20	1.42	34.73	0.02
NP-1-4ac	1O	29.33	1.40	34.80	0.01
NP-1-4ad	1O	29.13	1.38	34.54	0.02
NP-1-7a	1O	30.14	1.36	34.44	0.02
NP-1-7b	1O	29.78	1.37	34.00	0.04
NP-1-7c	1O	29.91	1.31	33.77	0.02
NP-1-7d	1U	30.14	1.26	34.48	0.03
NP-1-7e	1U	29.66	1.42	33.72	0.04
NP-1-7f	1U	29.65	1.16	33.86	0.04
NP-1-7g	1S	29.28	1.23	31.93	0.03
NP-1-7h	1S	29.20	1.20	31.44	0.04
NP-1-7i	1U	29.52	1.35	33.01	0.03
NP-1-7j	1U	29.37	1.19	32.21	0.04
NP-1-7k	1U	29.55	1.29	33.07	0.02
NP-1-7l	1U	29.46	1.38	32.84	0.16
NP-1-7m	1U	29.71	1.34	33.07	0.03
NP-1-7n	1S	29.07	1.23	32.30	0.05
NP-1-7o	1S	29.47	1.21	32.96	0.04
NP-1-7p	1U	29.58	1.42	33.26	0.04
NP-1-7q	1S	29.45	1.21	32.96	0.04
NP-1-7r	1S	29.28	1.21	31.72	0.04
NP-1-7s	1U	29.00	1.46	32.02	0.04
NP-1-7t	1U	29.13	1.49	32.20	0.04
NP-1-7u	1U	29.53	1.30	34.00	0.05
NP-1-7v	1U	29.70	1.38	33.74	0.03
NP-1-7w	1U	29.82	1.44	34.32	0.02
NP-1-7x	1O	29.28	1.23	33.31	0.04
NP-1-7y	1O	29.34	1.38	33.11	0.03
NP-1-7z	1O	29.94	1.24	34.55	0.02
NP-1-7aa	1O	29.77	1.27	34.64	0.03
NP-1-8a	1O	30.23	1.38	34.85	0.02
NP-1-8b	1O	29.93	1.31	34.61	0.02
NP-1-8c	1O	29.74	1.32	34.04	0.03
NP-1-8d	1O	29.95	1.36	34.67	0.03
NP-1-8e	1O	29.65	1.57	32.54	0.03
NP-1-8f	1O	29.99	1.45	34.34	0.04
NP-1-8g	1O	29.87	1.38	34.15	0.03
NP-1-8h	1Pc	29.21	1.45	32.37	0.04
NP-1-8i	1Pc	29.71	1.32	33.23	0.01

NP-1-8j	1Pc	30.08	1.36	34.85	0.02
NP-1-8k	1Pc	29.79	1.26	32.67	0.02
NP-1-8l	1Pc	30.02	1.27	35.96	0.01
NP-1-8m	1Pc	30.15	1.19	35.90	0.02
NP-1-8n	1Pc	29.72	1.41	33.81	0.10
NP-1-8o	1Pc	30.11	1.30	36.35	0.04
NP-1-8p	1Pc	29.82	1.67	33.65	0.06
NP-1-8q	1Pc	30.20	1.31	35.79	0.03
NP-1-8r	1Pc	30.16	1.29	35.69	0.03
NP-1-8s	1Pc	29.82	1.62	32.79	0.03
NP-1-8t	1Pc	29.92	1.62	32.47	0.05
NP-1-8u	1S	28.99	1.33	31.17	0.03
NP-1-8v	1Pc	29.06	1.46	31.60	0.06
NP-1-8w	1Pc	30.27	1.19	35.83	0.03
NP-1-8x	1Pc	29.89	1.27	35.02	0.02
NP-1-8y	1Pc	30.17	1.37	35.17	0.03
NP-1-8z	1Pc	29.95	1.36	34.96	0.02
NP-1-8aa	1O	30.16	1.37	35.70	0.04
NP-1-8ab	1O	30.28	1.32	35.59	0.02
NP-1-8ac	1U	30.14	1.40	34.99	0.03
NP-1-8ad	1U	29.83	1.18	34.50	0.06
NP-1-8ad	1U	30.00	1.22	34.78	0.02
NP-1-8ac	1U	30.11	1.21	34.95	0.01
NP-1-8ae	1U	30.04	1.20	35.17	0.01
NP-1-8af	1U	30.13	1.21	35.45	0.01
NP-1-8ag	1U	30.06	1.23	35.13	0.02
NP-1-8ah	1U	30.21	1.21	35.11	0.02
nb-176-4a	1O	29.07	1.15	35.57	0.00
nb-176-4b	1U	28.72	1.32	34.91	0.00
nb-176-4c	1O	28.41	1.14	35.31	0.00
nb-176-4d	1O	28.46	1.31	35.30	0.00
nb-176-4e	1O	29.25	1.53	34.94	0.00
nb-176-4f	1O	28.96	1.57	34.08	0.01
nb-176-4g	1O	28.91	1.28	34.99	0.01
nb-176-4h	1O	28.74	1.21	35.58	0.00
nb-176-4i	1O	29.21	1.27	35.00	0.00
nb-176-4j	1O	29.39	1.41	35.04	0.00
nb-176-4k	1O	29.50	1.41	35.13	0.00
NP-2-1a	1O	29.38	1.33	34.58	0.01
NP-2-1b	1O	29.36	1.45	34.64	0.02
NP-2-1c	1O	29.63	1.36	34.74	0.02
NP-2-1d	1O	29.35	1.36	34.13	0.02
NP-2-1e	1O	29.32	1.37	34.21	0.02
NP-2-1f	1O	29.36	1.43	34.01	0.02
NP-2-1g	1O	29.37	1.43	33.75	0.03

NP-2-1h	10	29.38	1.51	33.90	0.02
NP-2-1i	10	29.28	1.48	33.89	0.03
NP-2-1j	1S	28.99	1.59	31.83	0.04
NP-2-1k	1S	29.00	1.64	32.14	0.03
NP-2-1l	10	29.65	1.60	33.31	0.04
NP-2-1m	10	29.25	1.56	33.90	0.03
NP-2-1n	10	29.41	1.45	34.43	0.03
NP-2-1o	10	29.38	1.47	34.53	0.02
NP-2-1p	10	29.59	1.46	34.12	0.02
NP-2-1q	10	29.54	1.41	34.61	0.01
NP-2-2b	10	29.46	1.35	34.85	0.02
NP-2-2c	10	29.51	1.37	34.43	0.02
NP-2-2d	10	29.70	1.43	34.51	0.03
NP-2-2d	10	29.59	1.35	34.52	0.03
NP-2-2f	10	29.58	1.45	34.30	0.03
NP-2-2g	10	29.36	1.37	34.56	0.01
NP-2-2h	10	29.19	1.48	34.28	0.04
NP-2-2i	1S	29.05	1.43	33.68	0.03
NP-2-2j	10	29.52	1.48	34.34	0.03
NP-2-2k	10	29.74	1.43	33.90	0.02
NP-2-2l	10	30.05	1.40	34.39	0.02
NP-2-2m	10	29.93	1.27	34.57	0.02
NP-2-2n	10	29.89	1.32	34.78	0.01
NP-2-3a	10	30.04	1.27	35.17	0.01
NP-2-3b	10	29.63	1.34	34.70	0.02
NP-2-3c	10	29.63	1.31	34.65	0.02
NP-2-3d	10	29.56	1.24	34.30	0.01
NP-2-3e	10	29.61	1.22	34.12	0.01
NP-2-3f	10	29.75	1.41	33.94	0.02
NP-2-3g	10	29.70	1.36	34.27	0.02
NP-2-3h	10	29.53	1.39	34.26	0.02
NP-2-3i	10	29.63	1.38	34.63	0.03
NP-2-3j	10	29.63	1.43	34.19	0.02
NP-2-3k	1U	29.49	1.37	33.57	0.02
NP-2-3l	1U	29.55	1.41	33.41	0.02
NP-2-3m	1U	29.53	1.45	34.17	0.01
NP-2-3n	1S	29.65	1.42	34.63	0.03
NP-2-3o	1S	29.36	1.42	33.82	0.03
NP-2-3p	1S	29.30	1.52	33.54	0.02
NP-2-3r	1U	29.50	1.51	33.92	0.02
NP-2-3r	1U	29.35	1.44	34.04	0.03
NP-2-3s	1U	29.57	1.51	33.71	0.01
NP-2-3s	1U	29.11	1.51	32.81	0.04
NP-2-3u	1S	29.26	1.41	33.16	0.02
NP-2-3v	1S	29.35	1.25	34.29	0.01
NP-2-3w	1S	29.25	1.33	33.04	0.00
NP-2-3x	10	29.40	1.55	33.34	0.02
NP-2-3y	10	29.04	1.55	32.69	0.02

NP-2-5a	1O	29.74	1.31	34.71	0.03
NP-2-5b	1O	29.71	1.37	34.81	0.03
NP-2-5c	1O	29.98	1.41	34.06	0.02
NP-2-5d	1O	29.67	1.50	33.55	0.01
NP-2-5e	1O	29.52	1.52	33.50	0.02
NP-2-5f	1O	29.59	1.50	34.06	0.02
NP-2-5g	1O	29.67	1.52	33.49	0.03
NP-2-5g	1O	29.51	1.46	33.58	0.02
NP-2-5i	1O	29.79	1.53	33.28	0.01
NP-2-5j	1O	29.58	1.57	33.38	0.03
NP-2-5k	1O	29.60	1.50	32.70	0.03
NP-2-5l	1O	29.54	1.49	32.17	0.01
NP-2-5m	1O	29.70	1.47	32.73	0.02
NP-2-5n	1O	29.45	1.44	33.34	0.02
NP-2-5o	1O	29.49	1.48	33.37	0.03
NP-2-5p	1O	29.10	1.54	32.91	0.02
NP-2-5q	1O	29.80	1.53	33.02	0.02
NP-2-5r	1O	29.65	1.49	33.30	0.02
NP-2-5s	1O	29.96	1.40	33.50	0.02
NP-3-1a	1U	30.32	1.63	34.31	0.01
NP-3-1b	1U	29.88	1.49	34.56	0.02
NP-3-1c	1U	29.78	1.48	34.44	0.01
NP-3-1d	1S	29.65	1.34	34.23	0.01
NP-3-1e	1S	29.42	1.26	34.40	0.02
NP-3-1f	1S	29.44	1.27	34.49	0.02
NP-3-1g	1U	29.91	1.41	34.49	0.02
NP-3-1h	1U	29.70	1.37	35.01	0.02
NP-3-1i	1U	30.46	1.55	34.23	0.00
NP-3-1j	1U	28.81	1.44	34.32	0.03
NP-3-1k	1U	29.82	1.52	34.71	0.02
NP-3-1l	1S	29.24	1.31	34.27	0.02
NP-3-1m	1U	29.67	1.47	34.99	0.02
NP-3-1n	1U	29.44	1.33	34.67	0.03
NP-3-1o	1U	29.62	1.47	34.40	0.02
NP-3-2a	1O	29.91	1.32	35.12	0.02
NP-3-2b	1O	29.63	1.24	35.33	0.02
NP-3-2c	1Pc	29.69	1.16	35.72	0.02
NP-3-2d	1Pc	29.25	1.09	34.72	0.03
NP-3-2e	1Pc	30.01	1.28	35.61	0.01
NP-3-2f	1Pc	29.84	1.11	35.36	0.00
NP-3-2g	1Pc	29.69	1.11	35.51	0.00
NP-3-2h	1Pc	29.54	1.10	35.44	0.01
NP-3-2i	1Pc	29.63	1.01	35.82	0.03
NP-3-2k	1Pc	29.93	1.31	35.12	0.07
NP-3-2l	1Pc	29.85	1.32	35.11	0.02
NP-3-2m	1Pc	29.35	1.20	35.15	0.01
NP-3-2n	1Pc	29.23	1.27	34.17	0.02
NP-3-2o	1Pc	29.32	1.21	34.88	0.02

NP-3-2p	1Pc	29.77	1.29	35.05	0.00
NP-3-2q	1O	29.76	1.29	34.35	0.01
NP-3-2r	2A	30.04	1.38	35.24	0.02
NP-3-2s	2A	29.86	1.07	35.31	0.02
NP-3-2T	2A	30.01	1.08	35.48	0.01
NP-3-2u	2A	30.39	1.36	35.80	0.00
NP 3-2-2a	1O	29.69	1.32	34.72	0.01
NP 3-2-2b	1O	29.62	1.30	35.07	0.02
NP 3-2-2c	1O	29.71	1.41	34.84	0.01
NP 3-2-2d	1O	29.61	1.35	35.12	0.02
NP 3-2-2e	1O	29.66	1.33	35.32	0.02
NP 3-2-2f	1O	29.55	1.33	35.33	0.02
NP 3-2-2g	1S	29.27	1.38	34.62	0.01
NP 3-2-2h	1O	29.37	1.42	34.86	0.02
NP 3-2-2i	1S	29.28	1.42	34.18	0.01
NP 3-2-2j	1O	29.44	1.41	35.18	0.00
NP 3-2-2k	1O	29.56	1.42	35.06	0.01
NP 3-2-2l	1O	29.38	1.32	35.10	0.02
NP 3-2-2m	1O	29.60	1.41	34.97	0.01
NP 3-2-2n	1O	29.56	1.38	35.05	0.00
NP-3-5a	1O	29.56	1.25	34.92	0.02
NP-3-5b	1O	29.74	1.26	35.29	0.03
NP-3-5c	1O	29.52	1.29	35.29	0.02
NP-3-5d	1O	29.34	1.29	35.31	0.05
NP-3-5e	1S	29.26	1.05	35.61	0.03
NP-3-5f	1S	29.08	1.10	35.67	0.02
NP-3-5g	1O	29.25	1.17	35.39	0.03
NP-3-5h	1O	29.37	1.28	34.75	0.05
NP-3-5i	1O	29.41	1.21	35.47	0.05
NP-3-5j	1O	29.34	1.21	35.46	0.05
NP-3-5k	1O	29.44	1.39	34.63	0.11
NP-3-5l	1O	29.46	1.31	34.62	0.10
NP-3-5m	1O	28.96	1.36	34.01	0.11
NP-3-5n	1O	29.49	1.40	34.83	0.02
NP-3-5o	1O	29.18	1.40	35.18	0.01
NP-3-5p	1O	29.30	1.40	34.84	0.02
NP-3-5q	1O	29.83	1.59	34.31	0.02
NP-3-5r	1U	29.39	1.58	33.96	0.04
NP-3-5s	1U	29.32	3.24	33.25	0.14
NP-3-5t	1U	29.33	1.85	34.04	0.06
NP-3-5u	1U	29.39	1.46	34.11	0.04
NP-3-5v	1O	29.11	1.49	34.49	0.04
NP-3-5w	1O	29.55	1.61	34.70	0.01
NP-3-5x	1O	29.46	1.33	34.73	0.03
NP-3-6a	1O	29.51	1.26	33.40	0.03
NP-3-6a	1O	29.46	1.27	33.58	0.02
NP-3-6b	1O	29.51	1.24	34.39	0.03
NP-3-6c	1O	29.71	1.23	34.93	0.01

NP-3-6d	1O	29.59	1.26	34.83	0.03
NP-3-6e	1O	29.53	1.26	35.18	0.01
NP-3-6f	1O	29.67	1.33	35.42	0.03
NP-3-6g	1S	29.13	1.73	34.37	0.02
NP-3-6h	1S	29.30	1.23	35.16	0.02
NP-3-6i	1S	29.24	1.25	34.53	0.06
NP-3-6j	1U	29.78	1.04	36.26	0.01
NP-3-6k	1U	29.58	1.03	36.02	0.02
NP-3-6l	1U	29.56	1.34	35.24	0.00
NP-3-6m	1O	29.72	1.33	35.13	0.02
NP-3-6n	1O	29.46	1.35	33.63	0.02
NP-3-6o	2A	29.79	4.55	32.22	0.20
NP-3-6o	2A	30.08	1.63	35.19	0.04
NP-3-6p	2A	30.27	1.13	36.84	0.01
NP-3-7a	1O	29.45	1.19	34.96	0.02
NP-3-7b	1O	29.52	1.28	35.60	0.00
NP-3-7c	1O	29.13	1.18	35.38	0.01
NP-3-7d	1O	29.07	1.20	35.17	0.02
NP-3-7e	1O	29.07	1.21	34.88	0.01
NP-3-7f	1O	29.23	1.21	35.22	0.00
NP-3-7g	1O	29.39	1.23	35.36	0.01
NP-3-7h	1O	29.41	1.03	35.82	0.01
NP-3-7i	1O	29.30	1.17	34.90	0.01
NP-3-7j	1O	29.45	1.24	34.89	0.02
NP-3-7j	1O	29.16	1.36	34.57	0.03
NP-3-7l	1Pc	28.94	1.15	35.22	0.01
NP-3-7m	1Pc	28.99	1.41	33.32	0.02
NP-3-7n	1Pc	28.84	1.41	33.24	0.03
NP-3-7o	1Pc	29.18	1.61	33.48	0.03
NP-3-7p	1Pc	29.60	1.32	34.75	0.02
NP-3-7q	1Pc	29.10	1.05	36.10	0.02
NP-3-7r	1Pc	29.36	1.34	35.38	0.02
NP-3-7s	1Pc	29.05	1.34	35.42	0.01
NP-3-7t	1Pc	29.39	1.03	36.63	0.01
NP-3-7u	1Pc	29.64	1.03	36.20	0.02
NP-3-7v	1Pc	29.54	1.05	36.31	0.00
NP-3-7w	1Pc	29.34	1.13	35.19	0.01
NP-3-7x	1Pc	29.42	1.10	35.22	0.01
NP-3-7y	1U	29.16	1.11	35.79	0.01
NP-3-7z	1U	29.12	1.18	35.56	0.00
NP-3-7aa	1U	29.27	1.32	35.22	0.02
NP-3-7ab	1U	29.11	1.31	35.06	0.01
NP-3-7ac	1O	28.88	1.32	35.34	0.02
NP-3-7ad	1O	29.12	1.30	35.06	0.01
NP-05-01a	1O	29.57	1.45	34.63	0.03
NP-05-01b	1O	29.78	1.45	35.11	0.03
NP-05-01c	1O	29.73	1.40	35.43	0.02
NP-05-01d	1O	29.55	1.36	35.39	0.02

NP-05-01e	1O	29.55	1.42	35.02	0.02
NP-05-01f	1O	29.62	1.39	35.29	0.01
NP-05-01g	1O	29.52	1.43	35.25	0.01
NP-05-01h	1O	29.60	1.40	34.92	0.02
NP-05-01i	1S	29.26	1.22	35.20	0.01
NP-05-01j	1O	29.58	1.36	35.22	0.01
NP-05-01k	1O	29.40	1.49	34.96	0.01
NP-05-01l	1O	29.44	1.46	34.90	0.03
NP-05-03a	1O	29.63	1.34	35.14	0.03
NP-05-03b	1O	29.70	1.23	35.22	0.02
NP-05-03c	1O	29.89	1.37	35.41	0.02
NP-05-03d	1O	29.47	1.39	34.95	0.02
NP-05-03e	1O	29.40	1.27	35.24	0.02
NP-05-03f	1O	29.36	1.26	35.31	0.02
NP-05-03g	1O	29.48	1.32	35.39	0.01
NP-05-03h	1O	29.21	1.27	35.82	0.01
NP-05-03i	1O	29.27	1.32	35.30	0.02
NP-05-03j	1O	29.30	1.31	35.19	0.00
NP-05-03k	1O	29.23	1.43	34.81	0.03
NP-05-03l	1O	29.18	1.40	34.90	0.01
NP-05-03m	1U	29.54	1.39	35.12	0.03
NP-05-03n	1U	28.98	1.34	34.92	0.03
NP-05-03o	1U	29.35	1.36	35.06	0.01
NP-6-1a	1O	29.83	1.45	34.70	0.02
NP-6-1b	1O	29.51	1.42	34.60	0.01
NP-6-1c	1O	29.42	1.36	34.22	0.05
NP-6-1d	1O	29.11	1.37	33.79	0.01
NP-6-1e	1O	30.26	1.20	36.01	0.01
NP-6-1f	1O	29.82	1.16	34.60	0.03
NP-6-1g	2T	30.53	1.35	35.34	0.01
NP-6-1h	1O	29.65	1.45	34.32	0.04
NP-6-1i	2T	30.31	1.25	35.12	0.02
NP-6-1j	2T	30.39	1.17	35.46	0.03
NP-6-1k	1O	30.10	1.31	34.84	0.01
NP-6-1l	1O	29.97	1.22	34.28	0.02
NP-6-1m	2T	30.76	1.39	34.92	0.03
NP-6-1n	1O	29.44	1.42	33.99	0.02
NP-6-1o	1O	29.93	1.07	35.98	0.02
NP-6-1p	2T	30.06	1.08	36.05	0.01
NP-6-1q	2T	30.45	1.24	35.39	0.03
NP-6-1r	2T	29.59	1.20	34.19	0.01
NP-6-1s	2T	30.18	1.28	35.47	0.01
NP-6-1t	1O	29.66	1.58	33.56	0.04
NP-6-1u	1O	29.81	1.43	34.47	0.02
NP-6-1v	1O	29.23	1.48	33.59	0.02
NP-6-1w	1O	29.21	1.46	34.17	0.03
NP-6-1x	1O	28.95	1.43	33.32	0.03
NP-6-1y	1O	29.42	1.50	33.83	0.03

NP-6-1z	10	29.56	1.44	34.77	0.03
NP-6-5a	10	29.90	1.47	34.67	0.03
NP-6-5b	10	29.89	1.60	33.48	0.01
NP-6-5c	10	29.82	1.50	34.38	0.02
NP-6-5d	10	29.80	1.54	34.43	0.02
NP-6-5e	10	29.56	1.47	33.42	0.04
NP-6-5f	1S	29.59	1.44	33.61	0.04
NP-6-5g	1S	29.61	1.49	33.71	0.03
NP-6-5h	10	29.71	1.59	33.51	0.04
NP-6-5i	1S	29.48	1.51	33.80	0.03
NP-6-5J	10	29.82	1.52	33.95	0.02
NP-6-5k	10	29.47	1.48	34.28	0.02
NP-6-5l	10	29.59	1.51	34.31	0.02
NP-6-5m	10	29.51	1.30	34.40	0.00
NP-6-5n	10	29.52	1.29	34.13	0.03
NP-6-5o	10	29.87	1.28	34.99	0.03
NP-6-5p	2A	30.11	1.36	35.00	0.00
NP-6-5q	2A	30.23	1.39	34.72	0.02
NP-6-5r	1U	30.15	1.50	34.44	0.02
NP-6-5s	1U	29.89	1.45	34.24	0.03
NP-6-5t	1U	29.80	1.52	33.19	0.02
NP-6-5u	1U	29.83	1.48	33.68	0.03
NP-6-5v	10	29.36	1.46	32.70	0.02
NP-6-5w	10	29.75	1.22	35.06	0.02
NP-6-5x	1S	29.53	1.34	33.30	0.03
NP-6-5y	10	29.77	1.28	35.09	0.03
NP-6-5z	1U	30.41	1.10	36.14	0.02
NP-6-5aa	1S	29.54	1.50	33.35	0.02
NP-6-2a	1	29.64	1.40	34.68	0.02
NP-6-2b	1	29.86	1.21	35.32	0.01
NP-6-2c	1	29.86	1.01	35.75	0.01
NP-6-2d	1	29.84	1.00	34.19	0.05
NP-6-2e	1	29.65	1.15	35.81	0.02
NP-6-2f	1	29.34	1.61	33.49	0.07
NP-6-2g	1	29.46	1.19	34.80	0.04
NP-6-2h	1	29.49	1.27	34.10	0.04
NP-6-2i	1	29.30	1.22	33.04	0.05
NP-6-2j	1	30.07	1.23	35.77	0.04
NP-6-2k	1	30.04	1.44	35.76	0.05
NP-6-2l	1	29.99	1.20	35.30	0.01
NP-6-2m	1	29.66	1.38	34.76	0.03
NP-6-2n	1	30.11	1.30	34.86	0.05
NP-6-2o	1	29.59	1.53	34.08	0.03
NP-6-2p	1	29.71	1.64	33.41	0.03
NP-6-2q	1	29.64	1.67	32.56	0.03
NP-6-2r	1	29.49	1.62	31.74	0.03

NP-6-7a	1	29.72	1.55	34.66	0.03
NP-6-7b	1	29.85	1.50	34.61	0.03
NP-6-7c	1	29.81	1.50	34.48	0.02
NP-6-7d	1	30.10	1.66	35.57	0.03
NP-6-7e	1	29.90	1.60	34.31	0.02
NP-6-7f	1	29.96	1.50	35.09	0.02
NP-6-7g	1	29.55	1.50	33.64	0.02
NP-6-7h	1	29.86	1.43	34.50	0.03
NP-6-7i	1	30.14	1.65	34.37	0.03
NP-6-7j	1	30.13	1.39	35.62	0.01
NP-6-7k	1	30.30	1.42	35.66	0.03
NP-6-6a	1	30.12	1.31	35.58	0.00
NP-6-6b	1	29.56	1.23	35.57	0.02
NP-6-6c	1	29.93	1.36	34.93	0.03
NP-6-6d	1	29.88	1.12	34.53	0.04
NP-6-6e	1	30.07	1.29	35.30	0.01
NP-6-6f	1	30.17	1.19	35.67	0.02
NP-6-6g	1	30.07	1.26	35.52	0.01
NP-6-6h	1	29.71	1.39	34.97	0.06
NP-6-6h	1	30.42	2.08	32.12	0.83
NP-6-6j	1	29.77	1.18	35.88	0.03
NP-6-6k	1	29.85	1.16	35.62	0.02
NP-6-6l	1	30.22	1.44	35.12	0.03
NP-6-6m	1	29.83	1.39	34.28	0.03
NP-6-6n	1	30.20	1.09	36.06	0.01
NP-6-6o	1	29.91	1.58	34.82	0.03
oNP-1-1-a	1S	29.27	1.75	30.62	0.01
oNP-1-1-b	1O	29.82	1.23	33.98	0.00
oNP-1-1-c	1O	30.02	1.50	34.55	0.00
oNP-1-1-d	2T	29.94	1.32	36.12	0.00
oNP-1-1-e	2T	29.99	1.32	35.88	0.00
oNP-1-1-f	2T	29.88	1.33	35.91	0.00
oNP-1-1-g	1S	29.10	1.65	32.29	0.01
oNP-1-1-h	1O	29.94	1.36	35.11	0.00
oNP-1-1-i	1O	29.38	1.55	34.72	0.00
oNP-1-1-j	1O	29.69	1.48	35.20	0.00
oNP-1-1-k	1S	28.94	1.68	32.47	0.00
oNP-1-1-l	2T	29.59	1.29	35.24	0.00
oNP-1-1-m	1U	30.08	1.28	35.88	0.00
oNP-1-1-t1	1O	29.67	1.35	34.66	0.00
oNP-1-1-t2	1U	29.19	1.87	34.43	0.02
oNP-1-1-t3	1U	29.25	1.50	34.62	0.01
oNP-1-1-t4	1U	29.63	1.50	35.30	0.00
oNP-1-1-t5	1O	29.67	1.48	34.33	0.01
NP-1-2a	1U	30.10	1.23	36.10	0.00
NP-1-2b	1S	30.07	1.21	35.95	0.00

NP-1-2c	1S	30.01	1.27	35.37	0.00
NP-1-2d	1U	29.64	1.51	33.33	0.01
NP-1-2e	1U	29.36	1.58	32.35	0.00
NP-1-2f	1U	29.09	1.36	34.91	0.00
NP-1-2g	1U	30.09	1.28	35.90	0.00
NP-1-2g	1U	29.63	1.36	35.28	0.00
NP-1-2h	1U	29.27	1.76	31.03	0.01
NP-1-2i	1U	29.70	1.32	34.15	0.00
NP-1-2j	1U	29.91	1.33	35.66	0.00
NP-1-2k	1U	29.53	1.38	32.74	0.00
NP-1-2l	1U	29.51	1.60	32.74	0.01
NP-1-2m	1U	29.13	1.48	31.22	0.01
NP-1-2n	1U	29.06	1.67	32.15	0.00
NP-1-2o	1U	29.48	1.45	34.32	0.03
oNP-1-2-a	1S	29.22	1.30	33.07	0.02
oNP-1-2-b	1U	29.71	1.37	34.90	0.02
oNP-1-2-c	1U	29.27	1.20	33.63	0.03
oNP-1-2-d	2A	29.74	1.39	36.00	0.02
oNP-1-2-e	1U	29.69	1.58	34.21	0.03
oNP-1-3-a	1U	29.57	1.49	35.21	0.00
oNP-1-3-b	1U	30.12	1.47	35.29	0.01
oNP-1-3-c	1U	29.90	1.49	35.17	0.00
oNP-1-3-d	1U	29.55	1.55	34.67	0.02
oNP-1-3-e	2T	30.38	1.52	35.03	0.00
oNP-6-1-a	2A	30.23	1.49	35.81	0.00
oNP-6-1-b	1O	29.90	1.62	34.95	0.00
oNP-6-1-c	1O	29.73	1.60	34.92	0.00
oNP-6-1-d	1O	29.91	1.30	35.69	0.00
oNP-6-1-e	1O	29.69	1.58	34.79	0.00
oNP-6-2-a	1U	29.77	1.53	34.26	0.01
oNP-6-2-b	2A	30.36	1.37	36.24	0.00
oNP-6-2-c	2A	29.98	1.46	35.21	0.00
oNP-6-2-d	1U	29.90	1.58	34.52	0.00
oNP-6-2-e	1U	29.60	1.49	35.08	0.00
oNP-6-2-f	1U	29.39	1.72	33.83	0.00
oNP-6-3-a	1S	29.18	1.60	34.51	0.00
oNP-6-3-b	1O	29.78	1.46	35.07	0.00
oNP-6-3-c	2T	29.82	1.40	35.92	0.00
oNP-6-3-d	1O	29.53	1.58	34.64	0.00
oNP-6-3-e	2T	30.02	1.49	35.77	0.00
oNP-6-3-f	2T	29.93	1.63	35.50	0.00
oNP-6-3-g	2T	29.59	1.55	35.04	0.00
oNP-6-3-h	1U	29.78	1.55	34.62	0.00
oNP-6-4-a	1S	29.55	1.35	34.93	0.00
oNP-6-4-b	1U	29.88	1.49	34.77	0.00

oNP-6-4-c	2A	30.46	1.48	35.42	0.00
oNP-6-4-d	2A	30.17	1.32	36.01	0.06
oNP-6-4-e	1S	29.82	1.66	32.80	0.00
oNP-6-4-f	2A	30.30	1.39	36.09	0.00
oNP-6-4-g	2A	30.90	1.32	35.86	0.00
oNP-6-5-a	2T	30.72	1.30	36.43	0.00
oNP-6-5-b	1O	30.01	1.53	35.03	0.00
oNP-6-5-c	1S	29.92	1.69	34.69	0.05
oNP-6-5-d	2A	31.13	1.47	37.47	0.00
oNP-6-5-e	2A	30.37	1.60	35.70	0.00
oNP-6-5-f	1U	29.98	1.52	35.54	0.00
oNP-6-5-g	1U	30.00	1.52	34.22	0.01
oNP-6-5-h	1U	30.10	1.59	34.63	0.00
oNP-6-6-a	1S	29.69	1.74	32.70	0.02
oNP-6-6-b	1S	30.13	1.44	33.74	0.01
oNP-6-6-c	1O	29.99	1.53	35.11	0.00
oNP-6-6-d	2A	29.99	1.41	36.05	0.00
oNP-6-6-e	2T	30.40	1.33	36.31	0.00
oNP-6-6-f	2T	30.64	1.33	36.43	0.00
oNP-6-7-a	1S	29.84	1.66	34.99	0.02
oNP-6-7-b	1O	30.01	1.55	35.09	0.00
oNP-6-7-c	1U	30.13	1.62	35.21	0.02
oNP-6-8-a	1O	29.76	1.68	34.04	0.00
oNP-6-8-b	1S	30.07	1.30	35.49	0.00
oNP-6-8-c	2A	30.57	1.27	36.86	0.00
oNP-6-8-d	2A	30.61	1.36	37.16	0.00
oNP-6-9-a	1O	30.67	1.49	35.66	0.00
oNP-6-9-b	1O	30.05	1.45	35.78	0.00
oNP-6-9-c	1O	30.72	1.47	35.44	0.00
oNP-6-9-d	1O	30.40	1.45	35.71	0.00
oNP-6-9-e	2A	30.50	1.52	36.06	0.00
oNP-6-9-f	1U	30.36	1.27	36.12	0.00
oNP-6-9-g	2A	30.85	1.45	36.33	0.03
oNP-6-9-h	2A	30.62	1.43	35.98	0.01
oNP-6-10-a	1S	29.60	1.54	33.14	0.00
oNP-6-10-b	2T	30.69	1.46	35.72	0.00
oNP-6-10-c	2T	30.49	1.39	36.02	0.00
oNP-6-10-d	1U	29.91	1.55	34.27	0.00
oNP-6-10-e	2A	30.49	1.42	36.14	0.00
oNP-6-10-g	1U	29.64	1.59	34.92	0.00
oNP-6-10-h	2A	30.81	1.35	36.42	0.00
oNP-6-10-i	2A	30.90	1.36	36.95	0.00
oNP-6-10-j	2A	30.14	1.24	35.79	0.00
oNP-6-012-a	1O	29.80	1.60	34.83	0.00
oNP-6-012-b	1O	29.69	1.57	34.92	0.00
oNP-6-012-c	1S	29.71	1.33	35.24	0.00

Notch Peak aplites, Utah

NP-18-2a-2-a	1U	30.27	0.48	37.52	0.00
NP-18-2a-2-b	1U	29.81	1.54	34.73	0.00
NP-18-2a-2-c	1U	29.77	1.59	34.33	0.00
NP-18-2a-2-d	1U	29.52	1.44	34.37	0.01
NP-18-2a-2-e	1S	29.49	1.47	34.17	0.00
NP-18-2a-2-f	1U	29.34	1.50	34.34	0.00
NP-18-2a-2-g	1U	30.02	1.46	34.90	0.00
NP-18-2a-2-h	1U	29.58	1.38	34.44	0.00
NP-18-2a-2-i	1U	29.73	1.50	35.61	0.00
NP-18-2a-2-j	2T	30.12	0.30	38.24	0.00
NP-18-2a-2-k	1S	29.72	1.45	34.32	0.00
NP-18-2a-2-l	1U	29.37	1.44	34.18	0.00
NP-18-2a-2-m	1U	29.50	1.56	34.55	0.00
NP-18-2a-2-n	1U	29.43	1.61	34.32	0.00
NP-18-2a-2-o	1U	29.86	1.62	34.31	0.00
NP-18-2a-2-p	1U	30.06	0.45	37.38	0.00
NP-18-2a-2-q	1S	29.40	0.75	34.17	0.00
NP-18-2a-2-r	1U	29.87	1.28	35.75	0.00
NP-18-2a-012-a	1O	29.52	0.67	34.83	0.00
NP-18-2a-012-b	1O	30.12	0.69	37.52	0.00
NP-18-2a-012-c	1O	29.93	0.87	37.50	0.00
NP-18-2a-012-d	1O	29.88	1.05	36.51	0.00
NP-18-2a-012-e	1O	29.98	1.19	36.82	0.00
NP-18-2a-012-f	1O	30.10	1.41	36.16	0.00
NP-18-2a-012-g	1O	29.98	1.02	36.48	0.00
NP-18-2a-012-h	1O	29.91	1.28	36.35	0.00
NP-18-2a-012-i	1U	30.21	1.59	36.46	0.00
NP-18-2a-012-j	1U	30.13	1.57	36.40	0.00
NP-18-2a-012-k	1U	29.88	1.47	36.11	0.00
NP-18-2a-012-l	1U	29.88	1.46	35.85	0.00
NP-18-2a-012-m	2T	30.35	1.51	37.62	0.00
NP-18-2a-012-n	1U	29.90	1.55	35.99	0.00
NP-18-2a-012-o	1U	30.03	1.59	36.17	0.00
NP-18-2a-012-p	1O	29.88	1.33	36.28	0.00
NP-18-2a-012-q	1O	29.87	1.10	36.61	0.00
NP-18-2a-012-r	1O	29.76	1.07	36.68	0.00
NP-18-2a-012-s	1O	29.75	1.04	36.97	0.00
NP-18-2a-012-t	1O	30.17	0.84	37.23	0.00
NP-18-2a-012-u	1O	30.24	0.85	37.05	0.00
NP-18-2a-012-v	1O	30.18	1.06	36.68	0.00
NP-18-2a-012-w	1O	29.98	1.08	35.80	0.00
NP-18-2a-012-x	1O	29.84	1.15	36.46	0.00
NP-18-2a-012-y	1O	30.02	1.14	36.20	0.00
NP-18-2a-012-z	1O	29.94	1.21	36.24	0.00
NP-18-2a-5B-a	1U	29.92	1.14	35.87	0.00
NP-18-2a-5B-b	1U	29.88	1.48	34.87	0.00
NP-18-2a-5B-c	1S	29.41	1.53	33.95	0.00

NP-18-2a-5B-d	1S	29.74	1.07	35.86	0.00
NP-18-2a-5B-e	1U	30.05	0.84	36.95	0.00
NP-18-2a-5B-f	1U	29.97	1.24	36.23	0.00
NP-18-2a-5B-g	1U	30.26	1.46	35.89	0.00
NP-18-2a-5B-h	1S	29.72	0.70	35.25	0.00
NP-18-2a-5B-i	1S	29.38	0.79	34.33	0.00
NP-18-2a-5A-a	1O	29.59	0.81	36.27	0.00
NP-18-2a-5A-b	1O	30.09	0.75	37.56	0.00
NP-18-2a-5A-c	1O	29.76	1.15	36.12	0.00
NP-18-2a-5A-d	1U	29.93	1.30	36.27	0.00
NP-18-2a-5A-e	1U	29.74	1.46	35.61	0.00
NP-18-2a-5A-f	1U	29.93	1.46	35.81	0.00
NP-18-2a-5A-g	1U	30.00	1.46	35.95	0.00
NP-18-2a-5A-h	1U	29.96	1.53	35.90	0.00
NP-18-2a-5A-i	1U	29.97	1.32	35.91	0.00
NP-18-2a-5A-j	1U	29.92	1.30	35.42	0.00
NP-18-2a-5A-k	1U	29.62	1.26	35.14	0.00
NP-18-2a-5A-l	1U	29.79	1.24	35.65	0.00
NP-18-2a-5A-m	1U	29.96	1.19	35.67	0.00
NP-18-2a-5A-n	1U	29.85	1.20	35.78	0.00
NP-18-2a-5A-o	2T	29.76	1.48	35.25	0.00
NP-18-2a-5A-p	2T	30.14	1.62	35.48	0.00
NP-18-2a-5A-q	1O	29.89	1.34	36.60	0.00
NP-18-2a-5A-r	1O	29.85	1.45	35.66	0.00
NP-18-2a-5A-s	1S	29.71	1.36	35.25	0.00
NP-18-2a-5A-t	1U	29.34	1.40	34.58	0.00
NP-18-2a-5A-u	2T	29.67	1.56	34.73	0.00
NP-18-2a-5A-v	2T	29.84	1.56	34.87	0.00
NP-18-2a-5A-w	1O	29.74	1.01	36.32	0.00
NP-18-2a-5A-x	1O	29.81	1.11	36.69	0.00
NP-18-2a-5A-y	1O	29.66	1.06	35.94	0.00
NP-18-2a-5A-z	1O	29.73	1.18	36.46	0.00
NP-18-2a-5A-aa	1O	29.83	1.18	36.10	0.00
NP-18-2a-5A-ab	1O	29.76	1.43	36.04	0.00
NP-18-2a-5A-ac	1O	29.78	1.33	36.20	0.00
NP-18-2a-5A-ad	2T	29.78	1.39	35.24	0.00
NP-18-2a-6-a	1Pc	30.42	1.58	36.35	0.00
NP-18-2a-6-b	1Pc	30.31	1.51	36.43	0.00
NP-18-2a-6-c	1Pc	30.18	1.48	36.36	0.00
NP-18-2a-6-d	1Pc	30.11	1.49	36.36	0.00
NP-18-2a-6-e	1Pc	30.28	0.72	38.13	0.00
NP-18-2a-6-f	1Pc	30.32	1.35	36.59	0.00
NP-18-2a-6-g	1U	30.08	1.29	36.87	0.00
NP-18-2a-6-h	1Pc	30.41	0.69	37.12	0.00
NP-18-2a-6-i	1U	30.22	1.45	35.89	0.00
NP-18-2a-6-j	2f	30.15	0.98	35.19	0.00
NP-18-2a-6-k	2f	30.58	1.64	32.75	0.00
NP-18-2a-6-l	1O	30.46	0.85	37.00	0.00

NP-18-2a-6-m	1O	30.28	1.08	36.31	0.00
NP-18-2a-6-n	1O	29.90	1.15	36.21	0.00
NP-18-2a-6-o	1U	30.02	1.23	36.19	0.00
NP-18-2a-6-p	1U	29.99	1.24	36.26	0.00
NP-18-2a-6-q	1U	29.85	1.22	36.63	0.00
NP-18-2a-6-r	1O	30.18	1.31	36.11	0.00
NP-18-2a-6-s	1U	30.04	1.32	36.44	0.00
NP-18-2a-6-t	1U	29.97	1.48	35.57	0.00
NP-18-2a-6-u	1U	29.62	1.54	35.61	0.00
NP-18-2a-6-v	2T	30.11	0.56	37.59	0.00
NP-18-2a-6-w	2T	30.42	0.53	37.90	0.00
NP-18-2a-6-x	2f	29.79	1.42	32.48	0.00
NP-18-2a-014-a	2f	29.96	0.78	34.41	0.01
NP-18-2a-014-b	2f	29.71	0.79	33.74	0.00
NP-18-2a-014-c	1U	30.04	0.45	37.92	0.00
NP-18-2a-014-d	1O	29.99	0.75	37.05	0.00
NP-18-2a-014-e	1O	29.94	1.10	36.75	0.00
NP-18-2a-014-f	1U	30.12	1.23	36.36	0.00
NP-18-2a-014-f	1U	29.98	1.25	36.30	0.00
NP-18-2a-014-g	1U	30.29	0.38	38.20	0.00
NP-18-2a-014-h	2f	29.50	0.80	34.59	0.00
NP-18-2a-014-i	2f	29.92	0.80	34.80	0.00
NP-18-2a-014-j	1O	30.09	1.24	36.47	0.00
NP-18-2a-014-k	1O	29.75	1.37	35.85	0.00
NP-18-2a-014-l	1O	30.06	1.29	36.17	0.00
NP-18-2a-014-m	1O	29.82	1.46	34.81	0.00
NP-18-2a-014-n	2A	29.97	1.64	35.26	0.00
NP-18-2a-014-o	2A	30.38	1.02	37.30	0.00
NP-18-2a-014-p	1U	30.10	1.46	36.05	0.00
NP-18-2a-014-q	2f	29.38	1.72	28.08	0.02
NP-18-2a-014-r	2f	29.76	1.00	33.67	0.03
NP-18-2a-014-s	1Pc	29.79	1.53	35.34	0.00
NP-18-2a-014-t	1Pc	30.11	1.53	36.04	0.00
NP-18-2a-014-u	1U	29.78	1.37	35.60	0.00
NP-18-2a-014-v	1U	29.88	1.47	36.01	0.00
NP-18-2a-014-w	1U	30.05	1.49	35.68	0.00
NP-18-2a-014-x	1U	29.98	1.61	35.67	0.00
NP-18-2a-014-y	1U	30.17	1.60	35.95	0.00
NP-18-2a-014-z	1U	29.84	0.73	34.96	0.00
NP-18-2a-014-aa	2f	29.87	0.52	35.19	0.00
NP-18-2a-014-ab	2A	30.24	0.39	37.84	0.00
NP-18-2a-014-ac	2A	30.38	1.51	36.36	0.00
NP-18-2a-014-ad	2A	30.32	0.66	39.29	0.00
NP-18-2a-014-af	2f	29.85	0.82	34.58	0.01
NP-18-2a-014B-a	1U	29.96	1.52	35.29	0.00
NP-18-2a-014B-b	1U	29.96	1.50	35.14	0.00
NP-18-2a-014B-c	1U	30.09	1.66	34.74	0.00
NP-18-2a-014B-d	1S	29.60	1.44	34.12	0.00

NP-18-2a-014B-e	1U	29.86	1.22	35.22	0.00
NP-18-2a-014B-f	1U	30.07	1.43	35.78	0.00
NP-18-2a-014B-g	1U	30.03	1.44	35.57	0.00
NP-18-2a-014B-h	1U	30.13	1.46	35.41	0.00
NP-18-2a-014B-i	1O	29.78	1.46	35.59	0.00
NP-18-2a-014B-j	2f	29.64	0.77	34.14	0.01
NP-18-2a-014B-k	1S	29.86	1.73	34.52	0.00
NP-18-2a-014B-l	1S	29.77	1.34	34.85	0.00
NP-18-2a-013-a	2f	29.80	0.56	34.38	0.00
NP-18-2a-013-b	2f	29.57	0.55	34.63	0.00
NP-18-2a-013-c	2f	29.91	0.56	35.30	0.00
NP-18-2a-013-d	2f	29.99	0.65	34.84	0.05
NP-18-2a-013-e	1O	29.43	1.13	36.43	0.00
NP-18-2a-013-f	1U	29.40	1.39	35.52	0.00
NP-18-2a-013-g	1U	29.13	1.40	35.30	0.00
NP-18-2a-013-h	1S	29.32	1.45	35.23	0.00
NP-18-2a-013-i	1S	28.79	1.35	34.95	0.00
NP-18-2a-013-j	1S	29.24	1.39	35.03	0.00
NP-18-2a-013-k	1U	29.17	1.35	35.19	0.00
NP-18-2a-013-l	1U	29.31	1.58	35.11	0.00
NP-18-2a-013-n	2T	29.32	1.68	34.68	0.00
NP-18-2a-013-o	2T	29.52	1.94	34.95	0.00
NP-18-2a-013-p	1S	29.10	1.70	32.35	0.01
NP-18-2a-013-q	2T	29.65	0.54	38.27	0.00
NP-18-2a-013-r	2T	29.86	0.45	37.90	0.00
NP-18-2a-013-s	2T	29.65	0.57	37.99	0.00
NP-18-2a-013-t	1U	29.33	1.62	35.22	0.00
NP-18-2a-013-u	1U	29.49	1.76	34.61	0.00
NP-18-2a-013-v	1U	29.67	2.15	34.59	0.00
NP-18-2a-013-w	2f	29.14	1.50	33.77	0.00
NP-18-2a-013-x	1U	29.40	1.32	35.98	0.00
NP-18-2a-013-y	1U	29.54	1.52	35.22	0.00
NP-18-2a-013-z	2T	29.77	0.58	37.53	0.00
NP-18-2a-013-aa	2T	29.90	0.50	38.21	0.00
NP-18-2a-013-ab	2F	29.43	1.71	32.56	0.01
NP-18-2a-013-ad	2F	29.25	1.65	33.55	0.00
NP-18-2a-013-ae	2F	29.70	1.65	33.97	0.00
NP-18-2a-013-af	1S	29.20	1.43	34.95	0.00
NP-18-2a-013-ag	1S	29.37	1.28	34.79	0.00
NP-18-2a-013-ah	1U	29.64	1.31	34.87	0.00
NP-18-2a-013-ai	1S	29.85	1.29	35.39	0.00
NP-18-2a-013-aj	2F	29.43	0.72	34.33	0.00
NP-18-2a-013-ak	2T	29.82	0.70	37.69	0.00
NP-18-2a-013-al	2T	29.45	1.43	35.17	0.00
NP-18-2a-013-am	2T	30.01	1.63	35.64	0.00
NP-18-2a-013-an	2T	29.33	1.56	35.39	0.00
NP-18-2a-013-ao	2T	29.48	1.02	36.69	0.00
NP-18-2a-015-a	2F	29.229	1.701	32.995	0.000

NP-18-2a-015-b	2F	29.449	1.831	32.752	0.000
NP-18-2a-015-c	2F	29.332	1.562	33.276	0.000
NP-18-2a-015-d	2F	29.416	1.619	32.387	0.000
NP-18-2a-015-e	2F	29.475	1.546	33.196	0.000
NP-18-2a-015-f	2T	29.680	1.583	35.642	0.000
NP-18-2a-015-g	2T	29.678	0.673	38.869	0.000
NP-18-2a-015-h	2T	29.953	1.151	36.648	0.000
NP-18-2a-015-i	2T	29.807	1.445	36.839	0.000
NP-18-2a-015-j	2T	29.824	1.322	36.423	0.000
oNP-18-3a-1-a	2F	29.76	1.73	33.97	0.00
oNP-18-3a-1-b	2F	29.81	1.71	33.91	0.00
oNP-18-3a-1-c	2F	30.38	2.18	34.22	0.01
oNP-18-3a-1-d	2F	29.64	1.90	33.51	0.02
oNP-18-3a-1-e	2F	29.86	2.12	34.32	0.05
oNP-18-3a-1-f	2F	29.66	1.75	34.77	0.07

Little Cottonwood granite, Utah

LC-CC-2-a	1U	29.86	1.33	36.13	0.00
LC-CC-2-b	1U	29.49	1.40	35.22	0.00
LC-CC-2-c	1U	29.25	1.31	35.56	0.00
LC-CC-2-d	1U	29.14	1.29	35.51	0.01
LC-CC-2-e	1S	28.53	1.14	35.31	0.00
LC-CC-2-f	1S	28.90	1.12	35.34	0.01
LC-CC-2-g	1S	29.45	1.14	35.94	0.01
LC-CC-2-h	1S	29.26	1.11	36.18	0.01
LC-CC-2-i	1S	29.56	1.17	36.00	0.00
LC-CC-2-j	1S	29.46	1.15	35.95	0.01
LC-CC-2-k	1S	29.37	1.18	35.63	0.00
LC-CC-2-l	1S	29.27	1.15	35.59	0.01
LC-CC-2-m	1S	29.28	1.16	35.21	0.02
LC-CC-2-n	1S	29.07	1.26	35.39	0.02
LC-CC-2-o	1S	29.18	1.18	35.91	0.00
LC-CC-2-p	1U	29.38	1.27	35.50	0.00
LC-CC-2-q	1U	29.28	1.39	35.40	0.00
LC-CC-2-r	1U	29.45	1.38	35.42	0.02
LC-CC-2-s	1U	29.69	1.40	35.75	0.00
LC-CC-2-t	1U	28.71	2.19	36.33	0.03
LC-CC-2-u	1U	29.47	1.17	36.31	0.00
LC-CC-4-a	1U	30.01	1.23	36.26	0.01
LC-CC-4-b	1U	30.00	1.41	35.95	0.00
LC-CC-4-c	1U	29.88	1.37	35.63	0.01
LC-CC-4-d	1U	30.09	1.31	35.99	0.00
LC-CC-4-e	1S	29.67	1.20	35.72	0.01
LC-CC-4-f	1S	29.44	1.19	35.78	0.00
LC-CC-4-g	1S	29.63	1.21	35.25	0.00
LC-CC-5-a	1U	30.07	1.38	36.34	0.01
LC-CC-5-b	1U	29.98	1.43	35.97	0.01

LC-CC-5-c	1U	29.93	1.31	36.09	0.00
LC-CC-5-d	1U	29.84	1.37	35.62	0.01
LC-CC-5-e	1U	29.73	1.38	35.82	0.00
LC-CC-5-f	1U	30.14	1.36	36.45	0.00
LC-CC-5-h	1S	29.48	1.09	36.13	0.00
LC-CC-5-i	1S	29.87	1.15	36.11	0.02
LC-CC-5-j	1S	28.71	1.07	34.72	0.01
LC-CC-5-k	1S	29.62	1.08	36.18	0.02
LC-CC-5-l	1S	29.75	1.08	36.10	0.00
LC-CC-5-m	1U	29.95	1.33	35.93	0.02
LC-CC-5-n	1U	30.12	1.30	35.34	0.01
LC-CC-5-o	1U	29.93	1.25	36.28	0.00
LC-CC-5-p	1U	30.09	1.31	36.11	0.01
LC-CC-5-q	1U	30.12	1.28	36.16	0.00
LC-CC-5-r	1U	30.22	1.37	36.48	0.00
LC-CC-5-s	1S	29.51	1.28	35.72	0.02
LC-CC-5-t	1S	29.71	1.33	35.27	0.02
LC-CC-5-u	1U	30.77	1.69	36.19	0.00
LC-CC-5-v	1U	30.76	1.59	36.58	0.00
LC-HFT-1-a	2A	30.03	1.67	35.33	0.00
LC-HFT-1-aa	1Pc	29.08	1.27	35.42	0.03
LC-HFT-1-ab	1Pc	29.61	1.46	35.62	0.00
LC-HFT-1-ac	1Pc	29.67	1.43	35.33	0.01
LC-HFT-1-ad	1Pc	29.77	1.44	35.55	0.02
LC-HFT-1-ae	1Pc	28.88	1.12	36.12	0.02
LC-HFT-1-af	1Pc	28.73	1.18	35.82	0.02
LC-HFT-1-ag	1Pc	29.15	1.16	35.81	0.00
LC-HFT-1-b	1Pc	29.77	1.44	35.48	0.01
LC-HFT-1-c	1O	29.42	1.44	35.14	0.02
LC-HFT-1-d	1O	29.30	1.37	35.02	0.02
LC-HFT-1-e	1O	29.47	1.10	36.09	0.00
LC-HFT-1-f	1Pc	29.55	1.17	36.44	0.00
LC-HFT-1-g	1Pc	29.32	1.16	35.71	0.00
LC-HFT-1-h	1Pc	29.73	1.24	35.98	0.03
LC-HFT-1-i	1O	29.25	1.11	36.02	0.02
LC-HFT-1-k	1O	29.64	1.11	36.44	0.01
LC-HFT-1-l	1O	29.38	1.11	36.44	0.01
LC-HFT-1-m	1Pc	29.59	1.12	36.57	0.00
LC-HFT-1-n	1Pc	29.47	1.30	35.70	0.02
LC-HFT-1-o	1Pc	29.56	1.05	36.34	0.02
LC-HFT-1-p	1Pc	29.49	1.16	36.22	0.03
LC-HFT-1-q	1Pc	29.91	1.34	35.99	0.02
LC-HFT-1-r	1Pc	29.19	1.44	35.20	0.02
LC-HFT-1-s	1Pc	29.77	1.21	35.75	0.01
LC-HFT-1-t	1Pc	29.84	1.21	36.25	0.01
LC-HFT-1-u	1Pc	29.84	1.63	36.12	0.01
LC-HFT-1-v	1Pc	29.37	1.29	35.50	0.00
LC-HFT-1-w	1Pc	29.87	1.36	35.63	0.01

LC-HFT-1-x	1Pc	29.29	1.45	35.15	0.01
LC-HFT-1-y	1Pc	29.78	1.23	36.24	0.02
LC-HFT-1-z	1Pc	29.49	1.39	35.27	0.00
LC-HFT-3-a	1O	29.79	1.34	35.12	0.04
LC-HFT-3-aa	1O	29.69	1.40	34.51	0.01
LC-HFT-3-ab	1O	29.94	1.44	35.37	0.02
LC-HFT-3-ac	1O	29.35	1.18	35.48	0.00
LC-HFT-3-ad	1O	29.56	1.27	35.13	0.00
LC-HFT-3-ae	1Pc	29.49	1.31	35.01	0.01
LC-HFT-3-af	1Pc	29.56	1.29	35.10	0.01
LC-HFT-3-ag	1Pc	29.73	1.33	35.23	0.03
LC-HFT-3-ah	1Pc	29.91	1.47	35.83	0.01
LC-HFT-3-ai	1Pc	29.56	1.40	35.00	0.01
LC-HFT-3-aj	1Pc	29.45	1.40	34.75	0.00
LC-HFT-3-ak	1Pc	29.39	1.48	34.67	0.07
LC-HFT-3-al	1O	29.61	1.39	35.23	0.01
LC-HFT-3-am	1O	30.25	1.45	34.97	0.00
LC-HFT-3-b	1O	29.72	1.40	34.50	0.01
LC-HFT-3-c	1O	29.95	1.40	35.08	0.00
LC-HFT-3-d	1O	29.97	1.51	35.18	0.02
LC-HFT-3-e	1O	29.26	1.34	34.59	0.01
LC-HFT-3-f	1O	29.55	1.41	34.62	0.04
LC-HFT-3-g	1O	29.59	1.39	34.87	0.01
LC-HFT-3-h	1O	29.64	1.40	35.41	0.00
LC-HFT-3-i	1O	29.40	1.41	34.31	0.03
LC-HFT-3-j	1O	29.47	1.36	35.11	0.01
LC-HFT-3-k	1O	29.46	1.38	35.15	0.01
LC-HFT-3-l	1O	29.38	1.44	34.75	0.01
LC-HFT-3-m	1O	29.09	1.36	34.45	0.03
LC-HFT-3-n	1O	29.45	1.32	35.68	0.02
LC-HFT-3-o	1O	29.45	1.29	35.02	0.00
LC-HFT-3-p	1O	29.65	1.52	34.97	0.01
LC-HFT-3-q	1O	29.50	1.26	34.70	0.02
LC-HFT-3-r	1O	29.55	1.34	34.66	0.01
LC-HFT-3-s	1O	28.64	1.32	34.69	0.03
LC-HFT-3-t	1O	29.62	1.34	35.17	0.02
LC-HFT-3-u	1O	29.47	1.14	34.97	0.01
LC-HFT-3-v	1O	29.80	1.33	35.07	0.00
LC-HFT-3-w	1O	29.31	1.32	35.07	0.02
LC-HFT-3-x	1O	29.69	1.37	35.36	0.03
LC-HFT-3-y	1O	29.52	1.44	34.63	0.01
LC-HFT-3-z	1O	29.55	1.38	34.84	0.01
LC-HFT-4-a	1O	30.02	1.40	34.72	0.01
LC-HFT-4-aa	1Pc	29.74	1.48	35.14	0.03
LC-HFT-4-ab	1Pc	29.63	1.36	35.41	0.01
LC-HFT-4-ac	1Pc	29.63	1.37	34.61	0.01
LC-HFT-4-ad	1U	29.74	1.49	35.31	0.00
LC-HFT-4-ae	1U	29.70	1.42	35.51	0.01

LC-HFT-4-af	1U	29.71	1.18	36.16	0.00
LC-HFT-4-ah	1U	29.83	1.28	36.37	0.00
LC-HFT-4-ai	1U	29.53	1.42	34.73	0.03
LC-HFT-4-aj	1U	29.37	1.58	34.59	0.04
LC-HFT-4-b	1O	30.24	1.67	34.94	0.02
LC-HFT-4-c	1O	29.44	1.34	34.90	0.02
LC-HFT-4-d	1O	29.27	1.35	34.98	0.01
LC-HFT-4-e	1O	29.43	1.40	35.16	0.01
LC-HFT-4-f	1O	29.50	1.38	35.02	0.02
LC-HFT-4-g	1Pc	29.78	1.40	35.54	0.01
LC-HFT-4-h	1Pc	29.30	1.56	34.08	0.02
LC-HFT-4-i	1Pc	29.56	1.49	34.67	0.02
LC-HFT-4-j	1Pc	29.28	1.37	34.51	0.00
LC-HFT-4-k	1O	29.77	1.10	36.02	0.00
LC-HFT-4-l	1O	29.81	1.10	36.09	0.01
LC-HFT-4-m	1O	29.54	1.07	36.13	0.01
LC-HFT-4-n	1O	29.41	1.50	34.75	0.02
LC-HFT-4-o	1O	29.82	1.47	34.76	0.02
LC-HFT-4-p	1U	29.49	1.20	35.78	0.02
LC-HFT-4-r	1U	29.55	1.21	35.75	0.01
LC-HFT-4-s	1U	29.62	1.10	35.84	0.01
LC-HFT-4-t	1Pc	29.88	1.42	34.79	0.01
LC-HFT-4-u	1Pc	29.53	1.66	34.31	0.02
LC-HFT-4-v	1Pc	29.36	1.36	34.74	0.02
LC-HFT-4-w	1Pc	29.48	1.57	34.11	0.02
LC-HFT-4-x	1Pc	29.58	1.61	34.42	0.02
LC-HFT-4-y	1Pc	29.68	1.58	34.65	0.02
LC-HFT-4-z	1Pc	29.63	1.53	35.06	0.01
LC-HFT-6A-a	1O	30.28	1.39	35.46	0.02
LC-HFT-6A-b	1O	29.49	1.43	35.12	0.01
LC-HFT-6A-c	1O	29.44	1.37	35.03	0.02
LC-HFT-6A-e	1O	29.04	1.37	34.60	0.02
LC-HFT-6A-f	1S	29.23	1.36	34.60	0.03
LC-HFT-6A-g	1S	29.06	1.39	34.79	0.03
LC-HFT-6A-h	1O	29.12	1.37	34.50	0.02
LC-HFT-6A-i	1O	29.27	1.36	34.65	0.02
LC-HFT-6A-j	1O	29.38	1.38	34.21	0.02
LC-HFT-6A-k	1O	29.48	1.41	34.66	0.03
LC-HFT-6A-l	1O	29.59	1.35	34.44	0.02
LC-HFT-6A-m	1O	29.63	1.35	35.00	0.00
LC-HFT-6A-n	1O	29.69	1.36	35.10	0.02
LC-HFT-6A-o	1O	29.95	1.38	35.50	0.02
LC-HFT-6A-p	1O	30.06	1.46	35.40	0.01
LC-HFT-6A-r	2A	30.42	1.75	34.98	0.25
LC-HFT-6A-s	2A	30.32	1.72	35.46	0.00
LC-HFT-6A-t	2A	30.45	1.92	34.99	0.00
LC-HFT-6B-a	1U	30.07	1.33	35.50	0.01
LC-HFT-6B-b	1U	30.02	1.49	35.79	0.01

LC-HFT-6B-c	1U	30.09	1.41	36.09	0.02
LC-HFT-6B-d	1U	29.92	1.36	35.88	0.01
LC-HFT-6B-e	1U	29.88	1.36	36.01	0.00
LC-HFT-6B-f	1U	29.77	1.29	35.91	0.01
LC-HFT-6B-g	1U	29.73	1.45	35.21	0.02
LC-HFT-6B-h	1Pc	29.75	1.38	35.22	0.01
LC-HFT-6B-i	1Pc	30.10	1.23	36.37	0.00
LC-HFT-6B-j	1Pc	30.10	1.40	35.80	0.01
LC-HFT-6B-k	1Pc	30.12	1.11	36.91	0.01
LC-HFT-6B-l	1Pc	30.18	1.46	36.91	0.00
LC-HFT-6B-m	1Pc	29.65	1.21	35.82	0.01
LC-HFT-6B-n	1Pc	30.12	0.98	36.91	0.00
LC-HFT-6B-o	1Pc	29.97	1.16	36.14	0.02
LC-HFT-6B-p	1Pc	30.03	1.11	37.15	0.01
LC-HFT-6B-q	1Pc	29.93	1.02	36.94	0.00
LC-HFT-6B-r	1U	29.88	1.19	36.13	0.00
LC-HFT-6B-s	1U	29.52	1.18	36.30	0.01
LC-HFT-6B-t	1U	29.89	1.45	35.79	0.00
LC-HFT-7-a	1O	30.08	1.49	34.01	0.00
LC-HFT-7-b	1O	29.91	1.46	34.33	0.00
LC-HFT-7-c	1O	29.81	1.34	34.30	0.02
LC-HFT-7-d	1O	29.60	1.34	34.12	0.01
LC-HFT-7-e	1O	29.75	1.55	34.26	0.02
LC-HFT-7-f	1O	29.42	1.64	33.67	0.01
LC-HFT-7-g	1O	29.18	1.45	33.34	0.02
LC-HFT-7-h	1O	29.67	1.38	33.94	0.02
LC-HFT-7-i	1O	29.61	1.46	33.39	0.03
LC-HFT-7-j	1Pc	29.28	1.40	34.07	0.02
LC-HFT-7-k	1Pc	29.22	1.41	34.20	0.02
LC-HFT-7-l	1Pc	29.30	1.41	34.20	0.03
LC-HFT-7-m	1Pc	29.97	1.25	35.25	0.00
LC-HFT-7-n	1Pc	29.45	1.09	35.04	0.02
LC-HFT-7-o	1Pc	29.54	1.18	34.43	0.02
LC-HFT-7-p	1U	29.54	1.29	34.00	0.00
LC-HFT-7-q	1U	29.41	1.25	34.37	0.01
LC-HFT-7-r	1U	29.56	1.27	34.02	0.01
LC-HFT-7-s	1U	29.51	1.32	34.41	0.02
LC-HFT-7-t	1O	29.24	1.52	33.46	0.02
LC-HFT-7-u	1O	29.90	1.17	35.22	0.00
LC-HFT-7-v	1O	29.49	1.47	34.46	0.03
LC-HFT-7-w	1O	29.41	1.45	33.92	0.01
LC-HFT-7-x	1O	29.92	1.42	34.45	0.01
LC-HFT-7-y	1O	30.12	1.42	35.09	0.02
LC-HFT-7-z	1O	29.91	1.44	34.15	0.01
LC-HFT-7B-a	1U	29.93	1.37	33.98	0.02
LC-HFT-7B-b	1U	29.94	1.45	34.63	0.00
LC-HFT-7B-c	1Pc	29.61	1.21	35.42	0.01
LC-HFT-7B-d	1Pc	29.76	1.47	36.00	0.00

LC-HFT-7B-e	1Pc	29.88	1.40	34.93	0.00
LC-HFT-7B-f	2A	30.34	2.56	34.83	0.00
LC-HFT-7B-g	1Pc	29.90	1.23	35.96	0.02
LC-HFT-7B-h	1Pc	30.07	1.39	35.37	0.01
LC-HFT-7B-i	1Pc	29.54	1.14	35.21	0.00
LC-HFT-7B-j	1Pc	29.62	1.14	35.48	0.02
LC-HFT-7B-k	1Pc	30.08	1.36	36.02	0.01
LC-HFT-7B-l	1Pc	29.67	1.07	35.58	0.01
LC-HFT-7B-m	1S	29.65	1.12	34.69	0.00
LC-HFT-7B-n	1S	29.58	1.10	35.46	0.02
LC-HFT-7B-o	1S	29.47	1.20	35.29	0.01
LC-HFT-7B-p	1S	29.65	1.20	35.45	0.02
LC-HFT-7B-q	1S	29.50	1.28	35.61	0.00
LC-HFT-7B-r	1O	29.88	1.39	35.71	0.01
LC-HFT-7B-s	1O	29.96	1.44	35.82	0.01
LC-HFT-7B-t	1O	30.10	1.35	35.39	0.01
LC-HFT-7B-u	1O	30.22	1.39	35.27	0.00
LC-HFT-7B-v	1O	30.10	1.35	35.24	0.01
LC-SB-1-a	1U	29.74	1.40	34.85	0.03
LC-SB-1-aa	1O	29.76	1.36	35.40	0.03
LC-SB-1-ab	1O	29.39	1.29	35.21	0.01
LC-SB-1-ac	1Pc	29.29	1.12	36.65	0.02
LC-SB-1-ad	1Pc	29.47	1.30	35.83	0.02
LC-SB-1-ae	1Pc	29.67	1.03	36.40	0.01
LC-SB-1-af	1Pc	28.95	1.28	34.93	0.03
LC-SB-1-b	1O	29.64	1.29	34.92	0.02
LC-SB-1-c	1O	29.66	1.44	34.69	0.02
LC-SB-1-d	1O	29.87	1.42	35.36	0.01
LC-SB-1-e	1O	29.36	1.36	35.04	0.02
LC-SB-1-f	1O	29.69	1.41	35.65	0.01
LC-SB-1-g	1O	29.35	1.39	35.04	0.03
LC-SB-1-h	1O	29.24	1.32	35.21	0.00
LC-SB-1-i	1O	29.62	1.35	35.23	0.03
LC-SB-1-j	1O	29.16	1.36	34.48	0.02
LC-SB-1-k	1O	29.67	1.33	35.47	0.01
LC-SB-1-l	1O	29.64	1.42	35.16	0.01
LC-SB-1-m	1Pc	29.53	1.35	35.15	0.03
LC-SB-1-n	1Pc	29.06	1.21	34.82	0.02
LC-SB-1-o	1Pc	29.25	1.04	35.58	0.02
LC-SB-1-p	1Pc	29.60	1.78	35.12	0.04
LC-SB-1-q	1Pc	29.26	1.24	35.01	0.02
LC-SB-1-r	1Pc	29.22	1.08	36.15	0.00
LC-SB-1-s	1Pc	28.81	1.35	34.59	0.00
LC-SB-1-t	1Pc	29.22	1.44	34.66	0.03
LC-SB-1-u	1Pc	29.47	1.44	35.00	0.01
LC-SB-1-v	1O	29.24	1.33	35.18	0.03
LC-SB-1-w	1O	29.22	1.31	35.26	0.01

LC-SB-1-x	1O	29.62	1.44	35.64	0.02
LC-SB-1-y	1O	29.16	1.34	35.09	0.02
LC-SB-1-z	1O	29.44	1.48	35.10	0.00
LC-SB-3-a	1O	29.25	1.33	35.09	0.00
LC-SB-3-aa	1O	29.12	1.19	34.11	0.03
LC-SB-3-ab	1O	29.12	1.23	34.47	0.02
LC-SB-3-ac	1Pc	29.33	1.23	36.38	0.01
LC-SB-3-ad	1Pc	28.77	1.40	34.39	0.00
LC-SB-3-ae	1Pc	29.25	1.21	35.54	0.02
LC-SB-3-af	1Pc	28.79	1.34	34.48	0.00
LC-SB-3-ag	1Pc	29.57	1.25	36.01	0.01
LC-SB-3-b	1O	29.28	1.35	35.22	0.02
LC-SB-3-c	1O	29.61	1.36	35.14	0.02
LC-SB-3-d	1O	29.71	1.37	35.25	0.02
LC-SB-3-e	1O	29.51	1.36	35.80	0.02
LC-SB-3-f	1U	29.39	1.58	34.79	0.02
LC-SB-3-g	1U	29.29	1.39	35.28	0.03
LC-SB-3-h	1U	29.24	1.56	34.46	0.02
LC-SB-3-i	1U	29.10	1.45	34.85	0.02
LC-SB-3-j	1Pc	28.70	1.45	34.47	0.01
LC-SB-3-k	1Pc	28.94	1.54	34.67	0.01
LC-SB-3-l	1Pc	29.25	1.21	35.95	0.02
LC-SB-3-m	1Pc	29.08	1.45	35.17	0.02
LC-SB-3-n	1Pc	29.13	1.45	35.25	0.01
LC-SB-3-o	1Pc	29.18	1.36	35.49	0.02
LC-SB-3-p	1Pc	29.56	1.16	36.61	0.02
LC-SB-3-q	1Pc	29.17	1.28	35.74	0.02
LC-SB-3-r	1Pc	29.29	1.27	35.53	0.01
LC-SB-3-s	1Pc	29.01	1.47	35.23	0.01
LC-SB-3-t	1O	29.28	1.50	35.30	0.02
LC-SB-3-u	1O	29.58	1.44	35.93	0.02
LC-SB-3-v	1O	29.42	1.35	35.69	0.03
LC-SB-3-w	1O	29.42	1.24	35.55	0.01
LC-SB-3-x	1O	29.45	1.18	35.28	0.01
LC-SB-3-y	1O	29.26	1.25	33.78	0.03
LC-SB-4-a	1O	29.50	1.44	34.93	0.01
LC-SB-4-aa	1O	29.50	1.64	33.88	0.02
LC-SB-4-ab	1O	29.80	1.39	35.15	0.01
LC-SB-4-ac	1O	29.66	1.20	35.01	0.01
LC-SB-4-ad	2A	30.38	1.35	35.94	0.00
LC-SB-4-ae	2A	30.26	1.38	35.83	0.02
LC-SB-4-af	2A	30.35	1.25	36.50	0.02
LC-SB-4-ag	1S	29.10	1.18	35.08	0.01
LC-SB-4-ah	1S	28.70	1.20	34.74	0.02
LC-SB-4-ai	1S	29.19	1.09	35.28	0.04
LC-SB-4-aj	1S	29.29	1.08	35.64	0.02
LC-SB-4-b	1O	29.47	1.60	33.99	0.02
LC-SB-4-c	1O	29.13	1.56	34.07	0.03
LC-SB-4-d	1O	29.65	1.42	34.93	0.01
LC-SB-4-e	1O	29.34	1.43	34.88	0.03
LC-SB-4-g	1O	29.33	1.36	35.08	0.02

LC-SB-4-h	1Pc	29.56	1.36	34.82	0.03
LC-SB-4-i	1Pc	29.56	1.38	34.64	0.04
LC-SB-4-j	1Pc	29.44	1.48	34.93	0.02
LC-SB-4-k	1Pc	29.42	1.42	34.64	0.03
LC-SB-4-l	1Pc	29.31	1.20	35.23	0.02
LC-SB-4-m	1Pc	29.56	1.27	35.22	0.03
LC-SB-4-n	1Pc	29.08	1.21	35.28	0.00
LC-SB-4-o	1Pc	29.33	1.45	34.71	0.03
LC-SB-4-p	1Pc	29.68	1.06	36.04	0.02
LC-SB-4-q	1Pc	29.72	1.09	35.93	0.01
LC-SB-4-r	1Pc	29.60	1.11	35.51	0.01
LC-SB-4-s	1Pc	29.77	1.05	35.82	0.02
LC-SB-4-t	1Pc	29.72	1.20	36.01	0.01
LC-SB-4-u	1Pc	29.64	1.24	35.36	0.03
LC-SB-4-v	1Pc	28.90	1.24	34.88	0.03
LC-SB-4-w	1U	29.69	1.23	35.21	0.02
LC-SB-4-x	1U	29.61	1.33	35.06	0.03
LC-SB-4-y	1U	29.58	1.33	35.08	0.01
LC-SB-4-z	1U	29.65	1.40	35.14	0.03
LC-SB-4B-a	1U	29.90	1.45	35.38	0.01
LC-SB-4B-aa	1U	30.24	1.35	35.49	0.00
LC-SB-4B-ad	2A	30.38	1.37	35.88	0.01
LC-SB-4B-ae	2B	30.27	1.76	35.44	0.01
LC-SB-4B-af	2B	30.23	1.32	35.70	0.01
LC-SB-4B-ag	1O	30.25	1.36	35.88	0.01
LC-SB-4B-ah	1O	30.20	1.23	36.18	0.01
LC-SB-4B-ai	1O	30.12	1.32	35.92	0.00
LC-SB-4B-aj	1U	29.77	1.05	35.86	0.00
LC-SB-4B-ak	1U	29.86	1.04	36.03	0.00
LC-SB-4B-al	1S	29.65	1.08	34.63	0.02
LC-SB-4B-am	1S	29.60	1.13	33.76	0.03
LC-SB-4B-an	1S	29.87	1.17	35.03	0.01
LC-SB-4B-ao	1U	29.86	1.06	36.06	0.01
LC-SB-4B-ap	1U	29.60	1.43	35.09	0.01
LC-SB-4B-aq	1U	30.22	1.08	36.29	0.01
LC-SB-4B-ar	2A	32.05	4.27	32.51	0.30
LC-SB-4B-b	1U	29.82	1.30	35.66	0.02
LC-SB-4B-c	1U	29.59	1.20	35.59	0.01
LC-SB-4B-d	1Pc	29.73	1.04	36.68	0.01
LC-SB-4B-e	1Pc	29.71	0.90	36.08	0.00
LC-SB-4B-f	1Pc	30.18	0.97	36.87	0.01
LC-SB-4B-g	1Pc	29.71	0.90	36.31	0.01
LC-SB-4B-h	1Pc	29.62	1.38	35.65	0.02
LC-SB-4B-i	1Pc	30.16	1.19	36.37	0.00
LC-SB-4B-j	1Pc	30.00	1.16	36.01	0.02
LC-SB-4B-k	1Pc	30.32	0.99	36.98	0.00
LC-SB-4B-l	1Pc	29.80	1.07	35.71	0.01
LC-SB-4B-m	1Pc	29.24	1.29	35.02	0.03

LC-SB-4B-n	1Pc	29.70	1.11	35.76	0.00
LC-SB-4B-o	1Pc	29.85	1.43	35.04	0.01
LC-SB-4B-p	1Pc	29.81	1.19	35.86	0.00
LC-SB-4B-q	1Pc	30.19	1.42	35.92	0.00
LC-SB-4B-r	1Pc	29.80	1.07	35.86	0.01
LC-SB-4B-s	1S	29.74	1.23	34.77	0.03
LC-SB-4B-t	1Pc	29.72	1.34	34.60	0.01
LC-SB-4B-u	1Pc	29.87	1.31	34.40	0.01
LC-SB-4B-v	1Pc	29.83	1.43	34.95	0.01
LC-SB-4B-w	1Pc	29.84	1.29	35.15	0.01
LC-SB-4B-x	1O	29.61	1.30	33.82	0.01
LC-SB-4B-y	1O	29.89	1.08	35.38	0.01
LC-SB-4B-z	1O	30.04	1.25	35.60	0.02
LC-SB-5aa	1Pc	30.10	1.28	35.60	0.02
LC-SB-5ab	1Pc	29.95	1.30	35.53	0.02
LC-SB-5ac	1O	29.83	1.07	35.80	0.01
LC-SB-5b	1U	29.87	1.33	35.65	0.01
LC-SB-5c	1O	29.72	1.17	34.94	0.00
LC-SB-5d	1O	29.48	1.27	35.78	0.00
LC-SB-5e	1U	29.79	1.31	35.56	0.01
LC-SB-5f	1U	29.76	1.34	35.43	0.01
LC-SB-5g	1Pc	29.35	1.35	34.78	0.02
LC-SB-5h	1Pc	29.18	1.13	34.59	0.01
LC-SB-5i	1U	29.80	1.33	35.99	0.00
LC-SB-5j	1O	29.28	1.28	34.79	0.01
LC-SB-5k	1O	29.62	1.21	35.07	0.01
LC-SB-5l	1O	29.28	1.11	35.56	0.01
LC-SB-5m	1O	29.60	1.55	35.18	0.01
LC-SB-5n	1O	29.51	1.23	35.12	0.01
LC-SB-5o	1Pc	29.18	0.96	35.87	0.00
LC-SB-5p	1Pc	29.37	1.18	35.07	0.01
LC-SB-5q	1Pc	29.39	1.20	35.11	0.00
LC-SB-5r	1Pc	29.53	1.19	34.84	0.02
LC-SB-5s	1Pc	29.53	0.95	35.87	0.02
LC-SB-5t	1Pc	29.71	1.14	35.42	0.02
LC-SB-5u	1Pc	29.93	0.98	36.76	0.00
LC-SB-5v	1Pc	30.00	1.14	36.22	0.02
LC-SB-5w	1Pc	30.05	1.08	36.48	0.01
LC-SB-5x	1Pc	29.95	1.08	36.38	0.00
LC-SB-5y	1Pc	29.49	1.09	36.12	0.00
LC-SB-5z	1Pc	29.58	1.08	35.67	0.00
LC-SL-1-a	2A	30.76	1.21	36.19	0.01
LC-SL-1-aa	2A	29.79	1.05	36.26	0.00
LC-SL-1-ab	2A	30.28	1.05	35.96	0.00
LC-SL-1-ac	2A	30.30	1.05	36.49	0.00
LC-SL-1-ad	2A	29.96	1.00	36.03	0.00

LC-SL-1-ae	2A	30.09	1.14	35.75	0.01
LC-SL-1-b	1O	30.17	1.23	34.46	0.01
LC-SL-1-c	1O	30.18	1.29	34.89	0.02
LC-SL-1-f	1O	30.05	1.28	35.37	0.01
LC-SL-1-g	1U	30.00	1.27	35.41	0.01
LC-SL-1-h	1U	30.16	1.32	35.41	0.02
LC-SL-1-i	1Pc	30.03	1.32	35.27	0.01
LC-SL-1-j	1Pc	30.04	1.36	35.43	0.00
LC-SL-1-k	1Pc	30.08	1.22	35.66	0.02
LC-SL-1-l	1Pc	29.95	1.03	36.64	0.00
LC-SL-1-n	1Pc	30.32	0.98	36.61	0.00
LC-SL-1-o	1Pc	30.41	0.97	36.58	0.01
LC-SL-1-p	1Pc	30.05	1.00	36.71	0.02
LC-SL-1-q	1Pc	30.24	1.20	36.02	0.03
LC-SL-1-r	1Pc	30.11	1.09	36.10	0.02
LC-SL-1-s	1Pc	29.78	1.02	35.76	0.02
LC-SL-1-t	1Pc	29.82	1.06	36.01	0.01
LC-SL-1-u	1Pc	30.00	1.08	35.38	0.01
LC-SL-1-v	1Pc	30.05	1.10	35.70	0.03
LC-SL-1-w	1O	30.32	1.25	35.81	0.01
LC-SL-1-x	1O	30.34	1.26	35.17	0.01
LC-SL-1-y	1O	30.23	1.26	35.14	0.01
LC-SL-1-z	1O	30.17	1.22	35.00	0.01
LC-SL-1B-b	1S	29.15	1.17	34.18	0.00
LC-SL-1B-c	1Pc	29.80	1.36	35.10	0.33
LC-SL-1B-d	1S	29.05	1.20	33.81	0.00
LC-SL-1B-e	1O	29.59	1.27	34.37	0.02
LC-SL-1B-f	1O	29.40	1.23	34.48	0.00
LC-SL-1B-g	1U	29.82	1.21	34.67	0.02
LC-SL-1B-h	1U	29.47	1.06	35.47	0.01
LC-SL-1B-i	1U	29.75	0.96	35.88	0.00
LC-SL-1B-j	1U	29.78	1.04	35.74	0.00
LC-SL-1B-k	1U	29.84	1.06	36.04	0.00
LC-SL-1B-m	1S	29.55	1.07	34.20	0.00
LC-SL-2-a	1O	30.24	1.03	35.97	0.02
LC-SL-2-ab	2A	30.25	1.30	36.09	0.00
LC-SL-2-ac	2A	30.13	1.18	36.30	0.00
LC-SL-2-ad	1O	29.92	1.26	35.36	0.00
LC-SL-2-b	1O	30.16	1.06	35.96	0.00
LC-SL-2-c	1O	29.73	1.21	33.91	1.30
LC-SL-2-d	1O	29.79	1.18	34.42	0.03
LC-SL-2-f	1O	29.51	1.29	35.23	0.00
LC-SL-2-g	1O	29.63	1.32	35.01	0.00
LC-SL-2-h	1O	29.76	1.23	35.09	0.00
LC-SL-2-i	1O	29.78	1.21	34.70	0.01
LC-SL-2-j	1O	29.89	1.12	35.20	0.00
LC-SL-2-k	1O	29.56	1.19	35.29	0.02
LC-SL-2-l	1O	29.32	1.18	35.29	0.01

LC-SL-2-m	10	29.32	1.19	35.07	0.01
LC-SL-2-n	10	29.26	1.29	34.84	0.00
LC-SL-2-o	10	29.52	1.24	35.08	0.01
LC-SL-2-p	10	29.40	1.29	35.11	0.02
LC-SL-2-q	10	29.37	1.21	34.83	0.01
LC-SL-2-r	1S	29.41	1.12	35.22	0.01
LC-SL-2-s	10	29.50	1.31	34.44	0.02
LC-SL-2-t	10	29.50	1.31	35.07	0.00
LC-SL-2-u	10	29.58	1.30	35.02	0.00
LC-SL-2-v	10	29.62	1.27	35.46	0.00
LC-SL-2-w	10	29.67	1.27	34.80	0.01
LC-SL-2-x	10	29.69	1.35	35.21	0.00
LC-SL-2-y	10	29.69	1.29	34.95	0.00
LC-SL-2-z	10	29.87	1.21	34.46	0.01
LC-SL-3-a	10	29.90	1.29	35.25	0.01
LC-SL-3-b	10	30.10	1.24	34.78	0.00
LC-SL-3-c	10	30.11	1.35	35.29	0.01
LC-SL-3-d	10	30.11	1.33	35.50	0.02
LC-SL-3-e	10	30.03	1.31	35.49	0.01
LC-SL-3-f	10	30.12	1.25	35.65	0.00
LC-SL-3-g	10	29.83	1.25	35.56	0.02
LC-SL-3-h	10	30.24	1.26	35.39	0.01
LC-SL-3-i	1S	30.02	1.16	35.73	0.01
LC-SL-3-j	1S	29.75	1.13	35.64	0.01
LC-SL-3-k	10	29.89	1.24	35.41	0.00
LC-SL-3-l	10	30.07	1.23	35.44	0.00
LC-SL-3-m	10	29.96	1.26	35.43	0.02
LC-SL-3-n	10	29.88	1.22	35.55	0.00
LC-SL-3-o	10	30.12	1.22	35.52	0.00
LC-SL-3-p	10	29.84	1.24	35.54	0.02
LC-SL-3-q	10	30.24	1.23	35.36	0.00
LC-SL-3-r	10	30.03	1.25	35.64	0.00
LC-SL-3-s	10	30.09	1.22	35.49	0.01
LC-SL-3-t	10	30.00	1.31	35.15	0.01
LC-SL-3-u	10	30.19	1.26	35.00	0.00
LC-SL-3-v	10	30.06	1.32	34.65	0.00
LC-SL-3-w	10	30.14	1.36	34.51	0.01
LC-SL-3-y	10	30.19	1.33	34.45	0.01
LC-SL-4A-b	1U	29.92	1.31	35.25	0.00
LC-SL-4A-c	1U	29.58	1.32	34.56	0.02
LC-SL-4A-d	1S	29.11	1.28	33.82	0.02
LC-SL-4A-e	1U	29.55	1.34	35.17	0.01
LC-SL-4A-f	1S	29.07	1.40	34.19	0.01
LC-SL-4A-g	1U	29.50	1.28	35.27	0.01
LC-SL-4B-a	10	30.02	1.36	35.10	0.01
LC-SL-4B-b	10	29.75	1.20	35.66	0.01
LC-SL-4B-c	10	29.74	1.22	35.32	0.00
LC-SL-4B-d	1S	29.58	1.05	35.77	0.02

LC-SL-4B-e	1O	29.69	1.11	35.54	0.01
LC-SL-4B-f	1O	29.46	1.22	35.01	0.01
LC-SL-4B-g	1O	29.73	1.27	35.24	0.01
LC-SL-4B-h	1O	29.56	1.33	35.15	0.01
LC-SL-4B-i	1O	29.73	1.32	35.11	0.02
LC-SL-5-a	2A	30.10	1.06	36.36	0.00
LC-SL-5-aa	2A	29.03	1.27	34.26	0.01
LC-SL-5-ab	1S	29.54	1.05	34.97	0.01
LC-SL-5-ac	2A	29.47	1.15	35.28	0.02
LC-SL-5-b	1U	29.85	1.08	35.46	0.01
LC-SL-5-c	1U	29.58	1.24	34.43	0.02
LC-SL-5-d	1U	29.63	1.31	34.27	0.00
LC-SL-5-e	1U	29.60	1.31	34.58	0.02
LC-SL-5-f	1U	29.70	1.36	35.30	0.00
LC-SL-5-g	1O	29.68	1.25	35.26	0.00
LC-SL-5-h	1O	29.61	1.27	35.16	0.01
LC-SL-5-i	1O	29.53	1.34	35.12	0.01
LC-SL-5-j	1O	29.59	1.27	35.17	0.00
LC-SL-5-k	1S	29.41	1.27	34.95	0.01
LC-SL-5-l	1O	29.78	1.36	35.11	0.01
LC-SL-5-m	1O	29.84	1.40	34.67	0.01
LC-SL-5-n	1S	30.07	1.43	34.91	0.01
LC-SL-5-o	1O	29.84	1.33	34.80	0.01
LC-SL-5-p	1O	29.91	1.30	35.37	0.00
LC-SL-5-q	1O	29.61	1.27	35.19	0.02
LC-SL-5-r	1O	29.61	1.24	35.59	0.00
LC-SL-5-s	1O	29.77	1.33	35.67	0.00
LC-SL-5-t	1O	29.63	1.31	35.50	0.02
LC-SL-5-u	1O	29.79	1.34	35.21	0.02
LC-SL-5-v	1U	29.87	1.24	34.64	0.01
LC-SL-5-w	1U	29.77	1.25	34.45	0.02
LC-SL-5-x	1O	29.63	1.23	34.09	0.03
LC-SL-5-y	1O	29.74	1.17	34.71	0.00
LC-SL-5-z	1O	29.79	1.12	35.10	0.01
LC-TQ-1-a	2A	30.11	1.40	35.24	0.00
LC-TQ-1-aa	1O	29.84	1.36	34.86	0.01
LC-TQ-1-ab	1O	30.26	1.30	35.36	0.02
LC-TQ-1-ac	1O	29.21	1.20	34.69	0.00
LC-TQ-1-ad	1U	30.12	1.35	35.48	0.01
LC-TQ-1-ae	1U	30.36	1.46	35.20	0.01
LC-TQ-1-af	1U	30.29	1.51	34.95	0.02
LC-TQ-1-ag	1U	30.19	1.57	35.38	0.02
LC-TQ-1-b	1U	30.02	1.34	35.33	0.00
LC-TQ-1-c	1U	30.22	1.32	35.21	0.00
LC-TQ-1-d	1U	29.83	1.30	35.00	0.02
LC-TQ-1-e	1U	29.77	1.36	34.62	0.13
LC-TQ-1-f	1U	29.68	1.24	35.46	0.01
LC-TQ-1-g	1U	29.72	1.35	35.20	0.00

LC-TQ-1-h	1Pc	29.71	1.15	35.30	0.01
LC-TQ-1-i	1Pc	30.62	2.31	30.96	1.08
LC-TQ-1-j	1Pc	29.93	1.40	34.83	0.03
LC-TQ-1-k	1Pc	29.57	1.49	34.62	0.06
LC-TQ-1-l	1Pc	29.82	1.33	34.77	0.01
LC-TQ-1-m	1Pc	29.86	1.36	34.98	0.01
LC-TQ-1-n	1Pc	29.86	1.47	34.92	0.00
LC-TQ-1-o	1S	29.77	1.32	35.01	0.00
LC-TQ-1-p	1S	29.68	1.27	35.21	0.00
LC-TQ-1-q	1U	29.85	1.30	34.87	0.02
LC-TQ-1-r	1U	29.84	1.37	35.08	0.00
LC-TQ-1-s	1U	30.13	1.46	34.61	0.00
LC-TQ-1-t	1U	29.88	1.36	34.78	0.02
LC-TQ-1-u	1U	29.85	1.40	34.97	0.01
LC-TQ-1-v	1O	29.61	1.39	34.76	0.00
LC-TQ-1-w	1O	29.47	1.43	34.63	0.01
LC-TQ-1-x	1O	29.87	1.40	34.62	0.02
LC-TQ-1-y	1O	29.78	1.41	35.10	0.00
LC-TQ-1-z	1O	29.53	1.35	34.51	0.00
LC-TQ-1B-a	1O	30.12	1.40	35.51	0.01
LC-TQ-1B-b	1O	29.87	1.29	35.38	0.00
LC-TQ-1B-c	1O	29.75	1.21	34.55	0.01
LC-TQ-1B-d	1O	29.60	1.31	34.19	0.01
LC-TQ-1B-e	1O	29.54	1.37	35.02	0.02
LC-TQ-1B-f	1U	29.84	1.28	35.18	0.00
LC-TQ-1B-g	1U	29.40	1.20	35.03	0.03
LC-TQ-1B-h	1U	29.42	1.28	34.74	0.01
LC-TQ-1B-i	1U	29.80	1.25	35.31	0.02
LC-TQ-1B-j	1U	29.50	1.28	34.92	0.02
LC-TQ-1B-l	1O	29.63	1.40	35.07	0.02
LC-TQ-1B-m	1O	29.70	1.28	35.36	0.01
LC-TQ-1B-n	2A	29.96	1.35	35.21	0.02
LC-TQ-3-a	1U	29.82	1.35	35.48	0.01
LC-TQ-3-aa	1U	29.92	1.44	35.46	0.00
LC-TQ-3-ab	1S	29.04	1.25	34.74	0.01
LC-TQ-3-ac	1S	29.15	1.20	34.75	0.01
LC-TQ-3-ad	1S	29.32	1.11	35.43	0.01
LC-TQ-3-ae	1S	29.14	1.19	34.93	0.01
LC-TQ-3-af	2A	30.02	1.37	35.44	0.01
LC-TQ-3-ag	2A	29.80	1.20	36.98	0.00
LC-TQ-3-ah	2A	29.88	1.68	35.91	0.00
LC-TQ-3-ai	2A	29.83	1.66	35.80	0.00
LC-TQ-3-b	1U	29.87	1.40	35.72	0.00
LC-TQ-3-c	1U	29.57	1.36	35.72	0.01
LC-TQ-3-d	1U	29.44	1.36	35.88	0.01
LC-TQ-3-e	1U	29.59	1.37	35.24	0.01
LC-TQ-3-f	1U	29.28	1.40	35.11	0.01
LC-TQ-3-g	1U	29.56	1.37	34.98	0.02

LC-TQ-3-h	1U	29.16	1.33	35.20	0.02
LC-TQ-3-i	1U	29.41	1.37	35.18	0.01
LC-TQ-3-j	1U	29.51	1.33	35.17	0.01
LC-TQ-3-k	1U	29.59	1.31	35.34	0.01
LC-TQ-3-l	1U	29.49	1.35	34.97	0.01
LC-TQ-3-m	1U	29.38	1.20	35.58	0.00
LC-TQ-3-n	1U	29.55	1.31	35.11	0.00
LC-TQ-3-o	1U	29.48	1.36	35.02	0.00
LC-TQ-3-p	1U	29.39	1.39	35.21	0.01
LC-TQ-3-q	1U	29.39	1.35	35.21	0.00
LC-TQ-3-r	1U	29.33	1.37	35.25	0.01
LC-TQ-3-s	1U	26.86	1.28	32.20	0.02
LC-TQ-3-t	1U	29.59	1.29	35.82	0.02
LC-TQ-3-u	1U	29.67	1.32	35.43	0.00
LC-TQ-3-v	1U	29.85	1.30	35.86	0.01
LC-TQ-3-w	1U	29.80	1.42	35.70	0.02
LC-TQ-3-x	1U	29.74	1.45	35.32	0.01
LC-TQ-3-y	1U	29.90	1.38	35.81	0.00
LC-TQ-3-z	1U	29.91	1.40	35.64	0.00
LC-TQ-4-a	1O	29.66	1.27	35.43	0.01
LC-TQ-4-b	1O	29.67	1.27	35.30	0.02
LC-TQ-4-c	1O	29.64	1.28	35.40	0.00
LC-TQ-4-d	1O	29.64	1.26	35.39	0.01
LC-TQ-4-e	1O	29.49	1.29	35.41	0.01
LC-TQ-4-f	1Pc	29.54	1.03	36.57	0.00
LC-TQ-4-g	1Pc	29.71	1.16	36.33	0.01
LC-TQ-4-h	1Pc	29.81	1.13	36.45	0.00
LC-TQ-4-k	1Pc	29.38	0.93	37.19	0.00
LC-TQ-4-m	1Pc	29.41	1.20	36.03	0.03
LC-TQ-4-n	1Pc	29.53	1.21	35.90	0.00
LC-TQ-4-o	1Pc	29.99	1.33	36.14	0.02
LC-TQ-4-p	1Pc	30.33	1.39	35.56	0.01
LC-TQ-4-q	1Pc	30.15	1.32	36.01	0.01
LC-TQ-4-r	1Pc	29.89	1.03	36.17	0.02
LC-TQ-4-t	1Pc	30.34	1.05	37.39	0.00
LC-TQ-4-u	1O	30.12	1.19	35.83	0.00
LC-TQ-4-v	1O	29.94	1.31	35.29	0.00
LC-TQ-4-w	1O	29.98	1.30	35.85	0.00
LC-TQ-4-x	1O	30.35	1.28	35.97	0.02
LC-TQ-6-a	1O	30.07	1.34	35.61	0.01
LC-TQ-6-b	1O	29.81	1.28	35.71	0.01
LC-TQ-6-c	1O	29.62	1.36	35.26	0.00
LC-TQ-6-d	1U	29.69	1.43	34.87	0.01
LC-TQ-6-e	1U	29.49	1.24	34.92	0.02
LC-TQ-6-f	1U	29.42	1.21	35.22	0.03
LC-TQ-6-g	1U	29.30	1.52	34.46	0.02
LC-TQ-6-h	1U	29.48	1.29	34.74	0.01
LC-TQ-6-i	1U	29.42	1.49	33.92	0.03

LC-TQ-6-j	1S	29.19	1.30	34.06	0.02
LC-TQ-6-k	1S	29.36	1.29	34.04	0.00
LC-TQ-6-l	1S	29.35	1.34	33.67	0.03
LC-TQ-6-m	1S	29.21	1.33	33.76	0.01
LC-TQ-6-n	1U	29.65	1.51	33.98	0.03
LC-TQ-6-o	1U	29.44	1.45	33.97	0.03
LC-TQ-6-p	1U	29.56	1.44	34.21	0.03
LC-TQ-6-q	1U	29.57	1.53	33.95	0.02
LC-TQ-6-r	1U	29.61	1.37	35.00	0.01
LC-TQ-6-s	1O	29.81	1.39	35.70	0.01
LC-TQ-6B-a	2A	30.14	1.23	36.67	0.00
LC-TQ-6B-b	2A	30.19	1.19	36.66	0.00
LC-TQ-6B-c	1O	29.84	1.12	36.57	0.00
LC-TQ-6B-d	1U	29.66	1.10	35.22	0.00
LC-TQ-6B-e	1U	29.46	1.11	35.10	0.00
LC-TQ-6B-f	1U	29.70	1.10	35.45	0.01
LC-TQ-6B-g	1U	29.39	1.13	35.42	0.01
LC-TQ-6B-h	1U	29.56	1.10	35.22	0.00
LC-TQ-6B-i	1U	29.59	1.13	34.97	0.00
LC-TQ-6B-j	1U	29.83	1.13	35.60	0.00
LC-TQ-6B-k	1U	29.54	1.08	35.62	0.00
LC-TQ-6B-l	1U	30.11	1.09	35.99	0.00
LC-TQ-6B-m	1U	29.63	1.07	35.85	0.02
LC-TQ-6B-n	1U	29.85	1.05	35.78	0.01
LC-TQ-6B-o	1O	29.75	1.25	35.55	0.00
LC-TQ-6B-p	1O	29.98	1.25	35.69	0.00
LC-TQ-6B-q	2A	29.97	1.35	36.01	0.02
oLC-HFTe-3b	1	29.89	1.40	35.72	0.00
oLC-HFTe-3c	1	29.50	1.42	35.31	0.00
oLC-HFTe-3d	1	29.30	1.33	35.20	0.00
oLC-HFTe-3e	1	29.60	1.39	35.90	0.00
oLC-HFTe-3f	1	29.95	1.26	36.34	0.00
oLC-HFTt-1d	1	29.61	1.23	36.39	0.00
oLC-HFT-1a	1Pc	30.07	1.43	35.74	0.00
oLC-HFT-1b	1O	30.72	1.52	36.38	0.00
oLC-HFT-1c	1S	29.67	1.19	36.39	0.00
oLC-HFT-1d	2A	29.67	1.37	35.76	0.00
oLC-HFT-2a	1Pc	30.25	1.57	36.88	0.00
oLC-HFT-2b	1Pc	30.29	1.36	36.08	0.00
oLC-HFT-2c	1Pc	29.75	1.33	35.91	0.00
oLC-HFT-2d	1O	30.19	1.43	36.01	0.00
oLC-HFT-2e	1O	26.23	1.40	30.58	0.14
oLC-HFT-2e	1O	29.55	1.40	35.99	0.00
oLC-HFT-3a	1S	29.49	1.42	35.72	0.00
oLC-HFT-3b	2T	30.51	1.56	36.85	0.00
oLC-HFT-3c	1O	30.30	1.43	35.66	0.00
oLC-HFT-3d	1U	29.93	1.41	35.80	0.00

oLC-HFT-4a	1Pc	29.90	1.45	35.89	0.00
oLC-HFT-4b	1U	30.20	1.53	35.70	0.00
oLC-HFT-4c	1U	30.18	1.47	35.86	0.00
oLC-HFT-4d	1Pc	29.98	1.39	36.22	0.00
oLC-HFT-4e	1O	30.23	1.51	36.12	0.00
oLC-HFT-4f	2B	31.66	3.75	33.36	0.06
oLC-HFT-4g	1Pc	30.10	1.44	35.70	0.00
oLC-HFT-4t1	1O	29.91	1.42	36.01	0.00
oLC-HFT-4t10	1O	29.88	1.43	35.64	0.00
oLC-HFT-4t11	1O	29.97	1.43	35.48	0.00
oLC-HFT-4t2	1O	29.88	1.43	35.53	0.00
oLC-HFT-4t3	1Pc	29.99	1.70	35.93	0.00
oLC-HFT-4t4	1Pc	29.51	1.41	35.82	0.02
oLC-HFT-4t5	1Pc	29.91	1.39	36.26	0.00
oLC-HFT-4t6	1Pc	30.31	1.33	36.47	0.00
oLC-HFT-4t7	1Pc	27.66	3.76	34.85	0.01
oLC-HFT-4t8	1Pc	29.59	1.39	35.78	0.00
oLC-HFT-4t9	1Pc	29.70	1.50	35.68	0.00
oLC-HFT-5a	1	30.01	1.54	35.53	0.00
oLC-HFT-5b	1	29.87	1.38	36.01	0.00
oLC-HFT-5c	1	29.93	1.50	35.69	0.00
oLC-HFT-5d	1	30.09	1.29	36.08	0.00
oLC-HFT-5e	1	30.44	1.39	36.48	0.00
oLC-HFT-5f	1	30.38	1.40	36.26	0.00
oLC-HFT-6a	1U	30.53	1.55	35.94	0.00
oLC-HFT-6b	1U	30.05	1.23	35.97	0.00
oLC-HFT-6c	2B	31.62	8.01	28.00	0.03
oLC-HFT-6d	2B	31.59	8.34	27.28	0.02
oLC-HFT-6e	2B	29.35	5.73	26.55	0.00
oLC-HFT-7a	1S	29.99	1.13	36.46	0.00
oLC-HFT-7b	1Pc	30.33	1.36	37.05	0.00
oLC-HFT-7c	1U	30.24	1.36	36.79	0.00
oLC-HFT-7d	2A	30.59	1.54	36.30	0.00
oLC-HFT-7e	1S	30.25	1.34	35.96	0.00
oLC-HFT-7f	1b	31.59	8.72	26.12	0.06
oLC-HFT-8a	1S	30.01	1.23	36.62	0.00
oLC-HFT-8b	1U	30.34	1.24	36.30	0.00
oLC-HFT-8c	2A	30.77	1.60	36.69	0.00
oLC-HFT-8d	2A	30.96	1.77	36.06	0.00
oLC-HFT-8e	2A	30.92	1.83	36.11	0.00
oLC-HFT-8f	2A	30.90	1.71	36.29	0.00
oLC-HFT-8g	2A	30.87	1.67	36.45	0.00
oLC-SB-1-a	1Pc	29.80	1.41	36.09	0.00
oLC-SB-1-b	1U	29.85	1.40	36.16	0.00
oLC-SB-1-c	1O	29.83	1.30	36.06	0.00

oLC-SB-2-2a	1U	29.42	1.51	35.27	0.00
oLC-SB-2-2b	1U	29.41	1.30	35.99	0.00
oLC-SB-2-3a	1O	29.49	1.41	36.10	0.00
oLC-SB-2-3b	1Pc	29.09	1.37	35.39	0.00
oLC-SB-5-a	1S	29.52	1.28	35.69	0.00
oLC-SB-5-b	1U	29.57	1.48	35.49	0.00
oLC-SB-5-c	1Pc	29.35	1.42	35.59	0.00
oLC-SB-5-d	1Pc	29.92	1.28	36.88	0.00
oLC-SB-5-e	1Pc	29.70	1.08	37.33	0.00
oLC-SB-5-f	1U	29.71	1.36	36.40	0.00
oLC-SB-5-g	1Pc	29.66	1.44	35.72	0.00
oLC-SB-5-h	1U	29.63	1.43	35.81	0.00
oLC-SB-5-i	1U	29.68	1.30	36.67	0.00
oLC-SB-5-j	1U	29.52	1.11	36.66	0.00
oLC-SB-6-a	1U	29.85	1.12	36.58	0.00
oLC-SB-6-c	1U	29.70	1.06	36.37	0.00
oLC-SB-7-a	1O	30.16	1.36	36.84	0.00
oLC-SB-7-a	1O	30.31	1.40	36.23	0.00
oLC-SB-7-b	1O	29.88	1.39	36.73	0.00
oLC-SB-7-c	1U	29.93	1.40	36.12	0.00
oLC-SB-7-c	1U	29.94	1.48	36.49	0.00
oLC-SB-7-d	1O	29.72	1.37	36.41	0.00
oLC-SB-7-e	1O	29.68	1.52	35.52	0.00

Little Cottonwood granite enclaves

LC-CH-153C-16-a	1Up	30.09	1.27	36.46	
LC-CH-153C-16-b	1Up	29.89	1.34	36.46	
LC-CH-153C-16-b2	1S	29.71	1.00	37.23	
LC-CH-153C-16-d	1S	29.58	1.12	36.72	
LC-CH-153C-16-e	1S	29.39	1.11	36.97	
LC-CH-153C-16-f	1Up	29.75	1.28	36.23	
LC-CH-153C-16-g	1Up	29.66	1.27	36.36	
LC-CH-153C-16-h	1Up	29.95	1.42	35.88	
LC-CH-153C-16-i	1Up	29.95	1.40	36.16	
LC-CH-153C-16-k	1Up	29.99	1.36	35.98	
LC-CH-153C-16-l	1Up	29.71	1.47	35.35	
LC-CH-153C-16-m	1Up	29.27	1.51	34.81	
LC-CH-153C-16-m2	1S	28.95	1.37	34.74	
LC-CH-153C-16-o	1S	29.03	1.43	34.01	
LC-CH-153C-16-p	1Pc	30.11	1.17	36.59	
LC-CH-153C-16-q	1S	28.81	1.40	33.16	
LC-CH-153C-16-r	1S	29.23	1.35	34.86	
LC-CH-153C-16-s	1Up	30.01	1.16	36.52	
LC-CH-153C-20-a	1Up	29.95	1.36	35.78	
LC-CH-153C-20-b	1Up	29.97	1.46	35.31	
LC-CH-153C-20-c	1Up	29.51	1.49	34.70	

LC-CH-153C-20-d	1S	28.92	1.48	33.58
LC-CH-153C-20-e	1S	28.94	1.47	33.39
LC-CH-153C-20-f	1S	28.99	1.28	32.57
LC-CH-153C-20-g	1Up	29.41	1.46	34.01
LC-CH-153C-20-h	1Up	29.90	1.12	36.23
LC-CH-153C-20-i	1Up	29.89	1.31	35.54
LC-CH-153C-20-j	1Up	30.16	1.63	35.40
LC-CH-153C-20-k	1Up	29.84	1.20	36.45
LC-CH-153C-20-l	1Up	29.99	1.35	35.88
LC-CH-153C-20-m	1S	29.05	1.66	34.40
LC-CH-153C-20-n	1S	29.49	1.39	35.35
LC-CH-153C-20-o	1S	29.67	1.28	36.03
LC-CH-153C-20-p	1Up	30.07	1.16	36.34
LC-CH-153C-20-q	1Up	29.86	1.10	36.75
LC-CH-153C-20-r	1Up	30.01	1.07	36.79
LC-CH-153C-2-a	1U	29.76	1.45	35.08
LC-CH-153C-2-b	1U	29.78	1.40	35.22
LC-CH-153C-2-c	1U	29.78	1.34	35.64
LC-CH-153C-2-d	1U	29.70	0.88	36.66
LC-CH-153C-2-e	1U	29.72	0.96	36.32
LC-CH-153C-2-f	1U	29.59	1.31	35.45
LC-CH-153C-2-g	1S	28.99	1.21	34.11
LC-CH-153C-2-h	1U	29.23	1.26	34.85
LC-CH-153C-2-k	1U	29.69	0.92	36.70
LC-CH-153C-2-l	1U	29.81	1.40	35.37
LC-CH-153C-3-a	2A	29.52	1.05	36.17
LC-CH-153C-3-b	1O	29.44	0.92	36.24
LC-CH-153C-3-c	1S	28.59	1.21	34.19
LC-CH-153C-3-d	1S	28.39	1.27	33.08
LC-CH-153C-3-e	1S	28.19	1.21	33.28
LC-CH-153C-3-f	1U	28.71	1.29	33.71
LC-CH-153C-3-g	1U	29.03	1.47	33.52
LC-CH-153C-3-h	1U	29.01	1.35	34.55
LC-CH-153C-3-i	1U	29.70	1.13	36.03
LC-CH-153C-3-j	1Pc	30.55	1.21	36.29
LC-CH-153C-3-l	1U	29.72	1.37	35.50
LC-CH-153C-3-m	1U	29.65	0.92	36.96
LC-CH-153C-3-n	2A	29.90	1.29	36.22
LC-CH-153C-3-o	1O	29.97	1.49	35.97
LC-CH-153C-3-p	1O	29.25	1.33	35.36
LC-CH-153C-3-q	1S	29.09	1.19	34.85
LC-CH-153C-3-r	1U	29.43	1.36	35.19
LC-CH-153C-3-s	1U	29.55	1.43	35.25
LC-CH-153C-3-t	1Pc	29.34	1.18	36.16
LC-CH-153C-3-u	1Pc	29.30	1.28	35.86
LC-CH-153C-3-v	1O	29.31	1.19	35.82
LC-CH-153C-3-w	2A	29.88	1.55	36.13
LC-CH-153C-3-x	2A	29.89	1.28	36.74

LC-CH-153C-5-1a	1S	28.72	1.30	34.62
LC-CH-153C-5-1b	1Pc	29.28	1.07	35.53
LC-CH-153C-5-1c	1U	29.38	1.28	35.61
LC-CH-153C-5-1d	1O	29.32	1.15	35.87
LC-CH-153C-5-1e	1U	29.25	1.15	35.80
LC-CH-153C-5-1f	1S	28.68	1.37	33.92
LC-CH-153C-5-1g	1O	28.89	1.21	35.17
LC-CH-153C-5-1h	1O	29.17	1.30	35.35
LC-CH-153C-5-1i	1O	29.62	1.29	36.48
LC-CH-153C-5-1j	1O	29.10	1.45	35.00
LC-CH-153C-5-1k	1O	28.84	1.44	35.43
LC-CH-153C-5-1l	1U	28.36	1.25	35.70
LC-CH-153C-5-1m	1S	29.18	1.66	33.33
LC-CH-153C-5-1n	1Pc	28.93	1.26	35.59
LC-CH-153C-5-1o	1S	28.82	1.12	34.78
LC-CH-153C-5-1p	1U	29.45	1.00	36.17
LC-CH-153C-5-1q	1U	29.31	1.10	36.00
LC-CH-153C-5-2a	1U	29.11	1.33	34.34
LC-CH-153C-5-2b	1S	29.03	1.08	34.68
LC-CH-153C-5-2c	1S	28.77	1.17	34.71
LC-CH-153C-5-2d	1S	28.95	1.18	34.05
LC-CH-153C-5-2e	1U	29.35	1.35	34.70
LC-CH-153C-5-2f	1S	29.02	1.14	34.97
LC-CH-153C-5-2g	1S	29.47	1.12	35.14
LC-CH-153C-5-3a	1U	29.74	0.94	36.32
LC-CH-153C-5-3b	1U	29.75	0.92	36.48
LC-CH-153C-5-3c	1U	29.60	0.97	36.38
LC-CH-153C-5-3d	1U	29.57	0.86	36.95
LC-CH-153C-5-3e	1U	29.41	0.86	36.81
LC-CH-153C-5-3f	1U	29.75	1.14	35.63
LC-CH-153C-5-3g	1U	29.52	0.92	36.53
LC-CH-153C-8+9-a	2A	30.23	1.13	37.22
LC-CH-153C-8+9-b	1Pc	29.86	0.64	37.01
LC-CH-153C-8+9-c	1Pc	29.96	0.64	37.44
LC-CH-153C-8+9-d	1S	29.39	1.48	34.20
LC-CH-153C-8+9-e	1Pc	29.68	0.68	36.92
LC-CH-153C-8+9-f	1Pc	29.78	0.73	36.74
LC-CH-153C-8+9-g	1S	28.40	1.41	34.43
LC-CH-153C-8+9-h	1S	28.95	1.27	34.00
LC-CH-153C-8+9-i	1Pc	30.01	1.05	37.05
LC-CH-153C-8+9-j	1U	29.82	1.20	36.74
LC-CH-153C-8+9-k	1U	30.04	1.25	36.63
LC-CH-153C-8+9-l	2A	30.49	1.33	36.98
LC-CH-153C-8+9-m	1S	29.50	1.28	35.49
LC-CH-153C-8+9-n	1Pc	29.71	0.66	37.15
LC-CH-153C-8+9-o	1S	29.15	1.24	35.17
LC-CH-153C-8+9-p	1S	29.01	1.24	35.27
LC-CH-153C-8+9-q	1U	29.43	1.33	35.61

LC-CH-153C-8+9-r	1U	29.10	1.43	34.63	
LC-CH-153C-8+9-s	1U	28.90	1.36	34.95	
LC-CH-153C-8+9-t	1U	29.30	1.01	37.14	
LC-CH-153C-8+9-u	1Pc	30.10	1.03	37.20	
LC-CH-153A-1-c	1S	29.10	1.43	33.89	0.00
LC-CH-153A-1-d	1U	29.99	1.60	34.12	0.00
LC-CH-153A-1-e	1U	29.79	1.49	34.34	0.00
LC-CH-153A-1-f	1U	29.88	1.47	34.75	0.00
LC-CH-153A-1-g	1U	29.62	1.42	34.51	0.00
LC-CH-153A-1-h	1S	28.93	1.40	33.32	0.00
LC-CH-153A-1-i	1S	28.81	1.28	33.08	0.00
LC-CH-153A-1-j	1U	28.97	1.60	33.47	0.00
LC-CH-153A-1-l	1U	28.91	1.55	33.25	0.00
LC-CH-153A-1-m	1U	29.07	1.40	34.53	0.00
LC-CH-153A-1-n	1U	29.12	1.24	35.31	0.00
LC-CH-153A-1-o	1U	28.93	1.22	35.22	0.00
LC-CH-153A-1-p	1U	28.55	1.17	34.79	0.00
LC-CH-153A-1-q	1U	28.38	1.20	34.89	0.00
LC-CH-153A-1-r	1U	30.12	1.22	36.10	0.00
LC-CH-153A-1-s	1U	29.97	1.35	35.62	0.00
LC-CH-153A-1-t	1O	30.29	1.13	36.65	0.00
LC-CH-153A-1-u	1O	30.17	1.20	36.02	0.00
LC-CH-153A-1-v	1O	30.05	1.37	35.40	1.08
LC-CH-153A-1-w	1U	30.14	1.01	37.21	0.00
LC-CH-153A-1-x	1U	30.27	1.20	36.76	0.00
LC-CH-153A-4-a	1Pc	30.04	1.12	36.15	0.00
LC-CH-153A-4-b	1Pc	30.25	1.37	35.93	0.00
LC-CH-153A-4-c	1Pc	30.06	1.21	36.06	0.00
LC-CH-153A-4-d	1Pc	30.31	0.95	37.22	0.00
LC-CH-153A-4-e	1Pc	30.02	1.01	36.84	0.00
LC-CH-153A-4-f	1U	30.01	1.13	36.95	0.00
LC-CH-153A-4-g	1U	30.32	1.30	36.52	0.00
LC-CH-153A-4-h	1U	30.10	0.96	37.31	0.00
LC-CH-153A-4-i	1U	30.29	1.09	37.17	0.00
LC-CH-153A-4-j	1U	30.09	1.35	37.12	0.00
LC-CH-153A-4-k	1U	30.37	1.22	37.29	0.00
LC-CH-153A-4-l	1U	30.18	1.24	36.74	0.00
LC-CH-153A-4-m	1U	30.26	1.34	36.27	0.00
LC-CH-153A-4-n	1U	30.17	1.29	36.23	0.00
LC-CH-153A-4-o	1Pc	29.87	1.08	36.54	0.00
LC-CH-153A-4-p	2A	30.80	1.74	35.92	0.00
LC-CH-153A-4-q	2A	30.78	1.68	35.91	0.00
LC-CH-153A-4-r	1U	30.23	1.05	36.89	0.00
LC-CH-153A-4-s	1U	30.32	1.30	36.38	0.00
LC-CH-153A-4-a	1U	30.16	1.20	36.76	0.00
LC-CH-153A-4-b	1S	30.10	1.04	37.18	0.00
LC-CH-153A-4-c	1S	29.88	0.99	36.91	0.00
LC-CH-153A-4-d	1U	30.19	1.28	36.40	0.00

LC-CH-153A-4-e	1U	29.94	0.98	37.30	0.00
LC-CH-153A-4-f	1S	29.79	1.07	36.39	0.00
LC-CH-153A-4-g	1U	30.12	1.21	36.59	0.00
LC-CH-153A-4-h	1S	29.63	1.17	36.40	0.00
LC-CH-153A-4-i	1S	29.56	1.12	36.44	0.00
LC-CH-153A-4-j	1U	30.16	1.34	36.61	0.00
LC-CH-153A-6-a	1S	29.35	1.27	34.74	
LC-CH-153A-6-b	1S	29.52	1.24	35.01	
LC-CH-153A-6-c	1S	29.65	1.29	35.85	
LC-CH-153A-6-d	1U	30.32	1.02	36.76	
LC-CH-153A-6-e	1S	29.52	1.54	34.62	
LC-CH-153A-6-f	1U	29.82	1.41	34.88	
LC-CH-153A-6-g	1U	29.70	1.46	35.10	
LC-CH-153A-6-h	1U	30.09	1.37	36.04	
LC-CH-153A-6-i	1U	30.22	1.31	35.87	
LC-CH-153A-6-j	1U	29.93	1.04	36.83	
LC-CH-153A-6-k	1S	29.76	1.08	36.25	
LC-CH-153A-6-l	1S	30.02	1.05	36.56	
LC-CH-153A-6-m	1S	29.87	1.13	36.64	
LC-CH-153A-6-n	1S	29.63	1.20	36.47	
LC-CH-153A-6-o	1U	30.18	1.28	36.28	
LC-CH-153A-8-b	1S	30.20	0.97	37.09	
LC-CH-153A-8-c	1S	30.07	1.01	37.01	
LC-CH-153A-8-d	1S	30.00	1.03	36.65	
LC-CH-153A-8-e	1U	30.35	1.33	36.37	
LC-CH-153A-8-f	1U	30.14	1.04	36.81	
LC-CH-153A-8-g	1U	30.39	1.37	36.30	
LC-CH-153A-8-h	1U	30.25	1.29	36.36	
LC-CH-153A-8-i	1U	30.27	1.09	37.06	
LC-CH-153A-8-j	1S	30.11	1.10	36.78	
LC-CH-153A-8-k	1S	29.77	1.12	36.81	
LC-CH-153A-8-l	1U	30.09	1.35	35.98	
LC-CH-153A-8-m	1U	30.07	1.23	36.07	
LC-CH-153A-8-n	1U	29.78	1.13	36.72	
LC-CH-153D-4-b	1Pc	30.15	0.94	37.16	0.00
LC-CH-153D-4-c	1Pc	30.05	1.09	36.68	0.00
LC-CH-153D-4-d	1Pc	30.00	1.23	35.77	0.00
LC-CH-153D-4-e	1U	29.76	1.38	35.04	0.00
LC-CH-153D-4-f	1Pc	30.09	1.06	37.13	0.00
LC-CH-153D-4-g	1Pc	29.66	1.35	35.16	0.00
LC-CH-153D-4-h	1Pc	29.78	1.20	36.64	0.00
LC-CH-153D-4-i	1U	29.76	1.37	35.60	0.00
LC-CH-153D-4-j	1U	29.89	1.27	36.10	0.00
LC-CH-153D-4-k	1U	30.07	1.28	36.38	0.00
LC-CH-153D-4-l	1U	30.01	1.38	36.13	0.00
LC-CH-153D-4-m	1U	29.52	1.43	35.32	0.00
LC-CH-153D-4-n	1U	29.67	1.50	34.99	0.00
LC-CH-153D-4-o	1U	30.04	1.30	36.27	0.00

LC-CH-153D-4-p	1U	29.97	1.09	36.62	0.00
LC-CH-153D-4-r	1Pc	30.04	1.07	36.85	0.00
LC-CH-153D-4-s	1S	29.09	1.35	34.78	0.00
LC-CH-153D-4-t	1S	29.84	1.14	36.42	0.00
LC-CH-153D-4-u	1S	29.26	1.30	35.39	0.00
LC-CH-153D-4-v	1U	29.92	1.36	36.27	0.00
LC-CH-153D-4-w	2T	30.42	1.88	37.21	0.00
LC-CH-153D-4-x	1U	29.92	1.07	36.85	0.00
LC-CH-153D-4-y	2A	30.16	1.50	36.01	0.00
LC-CH-153D-4-z	2A	30.00	1.34	35.51	0.00
LC-CH-153D-16-b	1U	30.09	1.40	35.90	0.00
LC-CH-153D-16-c	1U	30.02	1.33	36.05	0.00
LC-CH-153D-16-d	1S	29.93	1.05	36.63	0.00
LC-CH-153D-16-e	1S	29.44	1.03	36.55	0.00
LC-CH-153D-16-f	1S	29.92	0.97	37.17	0.00
LC-CH-153D-16-g	1U	30.10	1.09	36.58	0.00
LC-CH-153D-16-h	1S	29.91	1.02	36.94	0.00
LC-CH-153D-16-i	1U	30.17	1.18	36.28	0.00
LC-CH-153D-16-j	1U	29.97	1.26	36.02	0.00
LC-CH-153D-16-k	1S	29.90	1.01	36.73	0.00
LC-CH-153D-16-l	1S	29.68	1.09	36.64	0.00
LC-CH-153D-16-m	1U	29.58	1.39	35.97	0.00
LC-CH-153D-16-n	1S	29.66	1.01	37.05	0.00
LC-CH-153D-16-o	1S	29.57	1.08	36.53	0.00
LC-CH-153D-16-p	2A	29.78	1.24	36.07	0.00
LC-CH-153D-017-b	1U	29.53	1.09	36.28	0.00
LC-CH-153D-017-c	1U	29.70	1.06	36.86	0.00
LC-CH-153D-017-d	1U	29.63	1.06	36.80	0.00
LC-CH-153D-017-e	1U	29.38	1.10	36.30	0.00
LC-CH-153D-017-g	1Pc	29.65	1.14	35.91	0.00
LC-CH-153D-017-h	1Pc	29.86	1.04	36.52	0.00
LC-CH-153D-017-i	2T	30.30	1.34	37.33	0.00
LC-CH-153D-017-j	1Pc	29.68	1.13	36.12	0.00
LC-CH-153D-017-k	1U	29.87	1.27	36.61	0.00
LC-CH-153D-017-l	2A	30.25	1.12	37.85	0.00
LC-CH-153D-017-m	1U	29.69	1.09	36.64	0.00
LC-CH-153D-017-n	1Pc	30.00	0.96	37.31	0.00
LC-CH-153D-017-o	1S	29.27	1.07	36.15	0.00
LC-CH-153D-017-p	1Pc	29.85	1.07	36.34	0.00
LC-CH-153D-017-q	1Pc	29.31	1.24	35.39	0.00
LC-CH-153D-017-r	1Pc	29.91	1.05	36.01	0.00
LC-CH-153D-017-s	1Pc	29.76	1.13	36.46	0.00
LC-CH-153D-017-t	1Pc	29.82	0.98	36.71	0.00
LC-CH-153D-017-u	1Pc	29.66	1.11	36.19	0.00
LC-CH-153D-017-v	1U	29.55	1.46	35.07	0.00
LC-CH-153D-017-w	2T	29.84	1.14	37.11	0.00
LC-CH-153D-017-x	1S	29.05	1.10	35.87	0.00
LC-CH-153D-017-y	2T	30.14	1.50	36.54	0.13

LC-CH-153D-017-z	1S	28.65	1.23	35.12	0.00
LC-CH-153D-017-aa	1U	29.93	1.11	36.42	0.00
LC-CH-153D-017-ab	1U	29.83	1.26	35.81	0.00
LC-CH-153D-017-ac	1O	30.23	1.23	36.29	0.00
LC-CH-153D-017-ad	1O	29.46	1.35	35.37	0.00
LC-CH-153D-017-ae	1Pc	29.71	1.03	36.09	0.00
LC-CH-153D-017-ad2	1O	29.75	1.04	36.15	0.00
LC-CH-153D-20-a	1S	30.30	0.68	38.08	0.00
LC-CH-153D-20-b	1S	29.49	1.40	35.32	0.00
LC-CH-153D-20-c	1S	29.28	1.34	34.55	0.00
LC-CH-153D-20-d	1U	29.98	1.41	35.27	0.00
LC-CH-153D-20-e	1U	30.19	1.38	35.87	0.00
LC-CH-153D-20-f	1S	29.45	1.25	35.22	0.00
LC-CH-153D-20-g	1U	29.80	1.26	36.07	0.00
LC-CH-153D-20-h	1U	30.18	1.34	36.11	0.00
LC-CH-153D-20-i	1O	30.18	1.25	36.30	0.00
LC-CH-153D-20-j	1O	30.39	1.34	36.21	0.00
LC-CH-153D-20-k	1O	30.21	1.26	36.44	0.00
LC-CH-153D-20-l	1U	29.84	1.34	35.96	0.00
LC-CH-153D-20-m	1S	29.19	1.08	35.39	0.00
LC-CH-153D-030-a	1U	30.36	1.39	36.01	0.00
LC-CH-153D-030-b	1U	30.16	1.38	35.93	0.00
LC-CH-153D-030-c	1U	30.14	1.33	36.14	0.00
LC-CH-153D-030-d	1U	30.22	1.24	36.47	0.00
LC-CH-153D-030-e	1O	30.03	1.14	36.15	0.00
LC-CH-153D-030-f	1O	30.15	0.92	37.41	0.00
LC-CH-153D-030-g	1O	29.92	1.07	36.67	0.00
LC-CH-153D-030-h	1O	30.00	0.95	37.00	0.00
LC-CH-153D-030-i	1O	29.78	1.02	36.47	0.00
LC-CH-153D-030-j	1O	29.69	1.14	36.31	0.00
LC-CH-153D-030-k	1U	30.01	1.24	36.14	0.00
LC-CH-153D-030-l	1U	29.91	1.28	36.14	0.00
LC-CH-153D-030-n	1U	30.14	1.28	36.06	0.00
LC-CH-153D-030-o	1U	29.91	1.17	36.44	0.00
LC-CH-153D-030-p	1U	29.95	1.15	35.76	0.00
LC-CH-153D-030-q	1U	30.02	1.15	35.72	0.00
LC-CH-153D-030-r	1U	30.23	1.33	35.99	0.00
LC-CC-18-2-3-a	1S	28.09	1.13	35.80	0.00
LC-CC-18-2-3-b	1S	29.27	1.23	36.00	0.00
LC-CC-18-2-3-c	1S	29.33	1.24	35.93	0.00
LC-CC-18-2-3-d	1S	29.10	1.24	35.18	0.00
LC-CC-18-2-3-e	1S	29.11	1.23	34.98	0.00
LC-CC-18-2-3-f	1S	29.33	1.47	34.76	0.00
LC-CC-18-2-3-g	1S	28.73	1.26	34.82	0.00
LC-CC-18-2-3-h	1S	29.07	1.19	35.78	0.00
LC-CC-18-2-3-i	1S	28.98	1.14	35.81	0.00
LC-CC-18-2-3-j	1S	28.48	1.05	36.58	0.00
LC-CC-18-2-3-k	1Up	29.49	1.43	35.26	0.00

LC-CC-18-2-3-l	1S	28.66	1.15	36.24	0.00
LC-CC-18-2-3-m	1S	29.34	1.22	36.04	0.00
LC-CC-18-2-3-n	1Up	28.77	1.17	36.19	0.00
LC-CC-18-2-3-o	1Up	29.71	1.18	36.10	0.00
LC-CC-18-2-3-p	1Up	29.83	1.02	36.38	0.00
LC-CC-18-2-3-q	2A	29.96	1.74	36.05	0.00
LC-CC-18-2-3-r	2A	30.12	1.85	35.73	0.00
LC-CC-18-2-3-s	1S	28.63	1.17	35.30	0.00
LC-CC-18-2-3-t	1S	28.62	1.26	35.11	0.00
LC-CC-18-2-3-u	1S	29.27	1.21	36.08	0.00
LC-CC-18-2-3-v	1S	29.33	1.12	35.90	0.00
LC-CC-18-2-3-w	1S	28.52	1.07	36.01	0.00
LC-CC-18-2-3-x	1S	29.72	1.06	36.10	0.00
LC-CC-18-2-3-y	1Up	29.13	1.32	35.56	0.00
LC-CC-18-2-3-z	1Up	29.59	1.39	35.21	0.00
LC-CC-18-2-6-a	2A	29.73	1.31	36.45	0.00
LC-CC-18-2-6-b	2A	29.52	1.02	37.02	0.00
LC-CC-18-2-6-c	2A	29.44	1.51	36.44	0.00
LC-CC-18-2-6-d	2A	30.04	1.46	36.23	0.00
LC-CC-18-2-6-e	2A	30.03	1.33	36.30	0.00
LC-CC-18-2-6-f	2A	29.88	1.35	36.40	0.00
LC-CC-18-2-6-g	2A	29.64	1.33	36.13	0.00
LC-CC-18-2-6-h	2A	29.16	1.36	36.17	0.00
LC-CC-18-2-6-i	2A	29.60	1.38	36.38	0.00
LC-CC-18-2-6-j	2A	29.90	1.20	36.41	0.00
LC-CC-18-2-6-k	2A	29.74	1.36	36.50	0.00
LC-CC-18-2-6-l	2A	29.06	1.20	37.00	0.00
LC-CC-18-2-6-Aa	2A	29.82	1.67	36.05	0.00
LC-CC-18-2-6-Ab	2A	29.60	1.65	36.29	0.00
LC-CC-18-2-6-Ba	2A	29.22	1.24	37.64	0.00
LC-CC-18-2-6-Bb	2A	29.05	1.16	37.63	0.00
LC-CC-18-2-6-Bc	2A	28.75	1.71	36.25	0.00
LC-CC-18-2-6-Bd	2A	27.93	1.38	37.00	0.00
LC-Corner-18-1-4A-a	2A	30.26	1.81	35.62	0.00
LC-Corner-18-1-4A-b	2A	30.24	1.71	35.78	0.00
LC-Corner-18-1-4A-c	1U	29.84	1.43	36.37	0.00
LC-Corner-18-1-4A-d	1U	30.04	1.42	36.08	0.00
LC-Corner-18-1-4A-e	1U	29.66	1.43	35.69	0.00
LC-Corner-18-1-4A-f	1U	28.92	1.49	35.30	0.01
LC-Corner-18-1-4A-g	1U	28.92	1.45	35.10	0.01
LC-Corner-18-1-4A-h	1S	26.84	1.26	33.33	0.00
LC-Corner-18-1-4A-i	1S	28.28	1.24	34.61	0.00
LC-Corner-18-1-4A-j	1S	28.59	1.32	34.39	0.00
LC-Corner-18-1-4A-l	1U	29.44	1.40	35.72	0.00
LC-Corner-18-1-4A-m	1S	29.21	1.21	35.50	0.00
LC-Corner-18-1-4A-n	1S	28.07	1.18	34.11	0.00
LC-Corner-18-1-4A-o	1S	28.94	1.19	35.40	0.00
LC-Corner-18-1-4A-p	1U	30.00	1.32	36.37	0.00

LC-Corner-18-1-4A-q	1U	29.61	1.32	35.63	0.00
LC-Corner-18-1-4A-r	1U	30.08	1.62	36.32	0.00
LC-Corner-18-1-4A-s	1U	30.47	1.51	36.16	0.00
LC-Corner-18-1-4A-t	1S	29.30	1.32	35.09	0.00
LC-Corner-18-1-4A-u	1U	29.78	1.12	36.60	0.00
LC-Corner-18-1-4A-v	1U	28.96	1.39	36.14	0.00
LC-Corner-18-1-4B-a	2A	29.69	1.16	36.77	0.00
LC-Corner-18-1-4B-b	1U	28.71	2.16	34.05	1.01
LC-Corner-18-1-4B-c	1U	29.24	1.48	34.96	0.00
LC-Corner-18-1-4B-d	1S	29.15	1.43	34.71	0.00
LC-Corner-18-1-4B-e	1S	29.41	1.30	35.49	0.00
LC-Corner-18-1-4B-f	1U	29.53	1.49	35.11	0.00
LC-Corner-18-1-4B-g	1S	28.48	1.52	34.33	0.00
LC-Corner-18-1-4B-h	1S	29.11	1.25	35.28	0.00
LC-Corner-18-1-4B-i	1S	29.18	1.15	35.63	0.00
LC-Corner-18-1-4B-j	1S	29.04	1.24	35.56	0.01
LC-Corner-18-1-4B-k	1S	29.11	1.22	35.37	0.00
LC-Corner-18-1-4B-l	1U	29.02	1.46	35.17	0.00
LC-Corner-18-1-4B-m	1U	29.34	1.45	35.73	0.00
LC-Corner-18-1-4B-n	1U	29.66	1.38	35.93	0.00
LC-Corner-18-1-4B-o	1S	29.31	1.16	36.00	0.00
LC-Corner-18-1-4B-p	1S	29.36	1.12	35.97	0.00
LC-Corner-18-1-4B-q	1S	29.29	1.11	36.54	0.00
LC-Corner-18-1-4B-r	1S	29.53	1.12	36.40	0.00
LC-Corner-18-1-4B-s	1S	29.52	1.15	36.54	0.00
LC-Corner-18-1-4B-t	2A	30.01	1.53	36.88	0.00
LC-Corner-18-1-7-a	2A	29.64	1.78	36.21	0.00
LC-Corner-18-1-7-b	1U	29.51	1.55	36.01	0.00
LC-Corner-18-1-7-c	1U	29.53	1.40	35.95	0.00
LC-Corner-18-1-7-d	1U	29.32	1.26	35.86	0.00
LC-Corner-18-1-7-e	1S	28.85	1.21	35.68	0.00
LC-Corner-18-1-7-f	1S	29.04	1.12	35.68	0.00
LC-Corner-18-1-7-g	1S	29.06	1.12	35.95	0.00
LC-Corner-18-1-7-h	2A	30.13	1.75	36.59	0.07
LC-Corner-18-1-7-i	2A	29.67	1.58	36.20	0.00
LC-Corner-18-1-7-j	1U	30.05	1.39	35.71	0.00
LC-Corner-18-1-7-k	1S	33.00	6.16	29.02	0.42
LC-Corner-18-1-7-l	1S	29.36	1.23	35.85	0.00
LC-Corner-18-1-7-m	1S	29.82	1.43	35.63	0.01
LC-Corner-18-1-7-n	1U	29.76	1.28	35.82	0.00
LC-Corner-18-1-7-o	1S	29.62	1.22	36.33	0.00
LC-Corner-18-1-7-p	1U	29.68	1.42	35.78	0.00
LC-Corner-18-1-1-a	2A	30.45	1.92	36.09	0.00
LC-Corner-18-1-1-b	2A	30.21	1.90	35.66	0.00
LC-Corner-18-1-1-c	2A	30.04	1.94	35.78	0.00
LC-Corner-18-1-1-d	2A	30.31	1.88	36.08	0.00
LC-Corner-18-1-1-e	2A	30.26	1.86	36.54	0.00
LC-Corner-18-1-1-f	2A	30.24	1.88	35.84	0.00

LC-Corner-18-1-1-g	2A	30.17	1.74	35.65	0.00
LC-Corner-18-1-1-h	2A	30.05	1.95	35.87	0.00
LC-Corner-18-1-2-b	2A	30.35	1.80	36.50	0.00
LC-Corner-18-1-2-c	2A	30.04	2.01	36.09	0.00
LC-Corner-18-1-3-b	2A	29.73	1.50	35.95	0.00
LC-Corner-18-1-3-b	2A	30.29	1.83	35.38	0.00
LC-Corner-18-1-3-d	2A	29.69	1.18	36.08	0.00
LC-Corner-18-1-3-c	2A	30.72	1.66	36.66	0.00
LC-Corner-18-1-3-d	2A	30.29	1.37	36.97	0.00
LC-Corner-18-1-3-f	2A	30.29	1.37	36.98	0.00
LC-Corner-18-1-4-a	2A	30.42	1.55	36.64	0.00
LC-Corner-18-1-4-b	2A	30.02	1.80	35.84	0.00
LC-Corner-18-1-4-c	2A	30.07	1.71	35.94	0.00
LC-Corner-18-1-4-d	2A	29.68	1.46	36.03	0.00
LC-Corner-18-1-4-e	2A	29.67	1.31	36.47	0.00
LC-Corner-18-1-5-a	2A	30.31	1.41	36.70	0.00
LC-Corner-18-1-5-b	1	29.54	1.52	34.97	0.00
LC-Corner-18-1-5-c	1	30.01	1.66	34.82	0.00
LC-Corner-18-1-5-d	2A	30.11	1.23	36.82	0.00
LC-Corner-18-1-5-e	2A	29.77	1.27	36.16	0.00
LC-Corner-18-1-5-f	2A	29.89	1.46	36.06	0.00
LC-Corner-18-1-5-g	2A	29.94	1.60	36.26	0.00
oLC-Corner-18-1-a	2A	30.45	1.92	36.09	0.00
oLC-Corner-18-1-b	2A	30.21	1.90	35.66	0.00
oLC-Corner-18-1-c	2A	30.04	1.94	35.78	0.00
oLC-Corner-18-1-d	2A	30.31	1.88	36.08	0.00
oLC-Corner-18-1-e	2A	30.26	1.86	36.54	0.00
oLC-Corner-18-1-f	2A	30.24	1.88	35.84	0.00
oLC-Corner-18-1-g	2A	30.17	1.74	35.65	0.00
oLC-Corner-18-1-h	2A	30.05	1.95	35.87	0.00
oLC-Corner-18-2-b	2A	30.35	1.80	36.50	0.00
oLC-Corner-18-2-c	2A	30.04	2.01	36.09	0.00
oLC-Corner-18-3-a	2A	29.73	1.50	35.95	0.00
oLC-Corner-18-3-b	2A	30.29	1.83	35.38	0.00
oLC-Corner-18-3-c	2A	30.72	1.66	36.66	0.00
oLC-Corner-18-3-d	2A	29.69	1.18	36.08	0.00
oLC-Corner-18-3-e	2A	30.29	1.37	36.97	0.00
oLC-Corner-18-3-f	2A	30.29	1.37	36.98	0.00
oLC-Corner-18-4-a	2A	30.42	1.55	36.64	0.00
oLC-Corner-18-4-b	2A	30.02	1.80	35.84	0.00
oLC-Corner-18-4-c	2A	30.07	1.71	35.94	0.00
oLC-Corner-18-4-d	2A	29.68	1.46	36.03	0.00
oLC-Corner-18-4-e	2A	29.67	1.31	36.47	0.00
oLC-Corner-18-5-a	2A	30.31	1.41	36.70	0.00
oLC-Corner-18-5-b	2A	29.54	1.52	34.97	0.00
oLC-Corner-18-5-c	2A	30.01	1.66	34.82	0.00
oLC-Corner-18-5-d	2A	30.11	1.23	36.82	0.00
oLC-Corner-18-5-e	2A	29.77	1.27	36.16	0.00

oLC-Corner-18-5-f	2A	29.89	1.46	36.06	0.00
oLC-Corner-18-5-g	2A	29.94	1.60	36.26	0.00
oLC-HFT-18-6-1a	1S	29.59	1.22	36.02	0.00
oLC-HFT-18-6-1a	1S	29.59	1.22	36.02	0.00
oLC-HFT-18-6-1b	1U	29.64	1.02	36.65	0.00
oLC-HFT-18-6-1b	1U	29.64	1.02	36.65	0.00
oLC-HFT-18-6-1c	1U	29.70	1.41	35.78	0.00
oLC-HFT-18-6-1c	1U	29.70	1.41	35.78	0.00
oLC-HFT-18-6-1c	1U	29.71	1.31	36.02	0.00
oLC-HFT-18-6-1d	1S	29.61	1.23	36.39	0.00
oLC-HFT-18-6-1e	2T	29.98	0.82	37.59	0.00
oLC-HFT-18-6-1e	2T	29.98	0.82	37.59	0.00
oLC-HFT-18-6-1f	2T	29.65	0.92	37.31	0.00
oLC-HFT-18-6-2a	1U	29.92	1.27	36.33	0.00
oLC-HFT-18-6-2a	1U	29.92	1.27	36.33	0.00
oLC-HFT-18-6-2b	1S	29.83	1.12	37.04	0.00
oLC-HFT-18-6-2b	1S	29.83	1.12	37.04	0.00
oLC-HFT-18-6-2c	1U	29.87	1.38	36.32	0.00
oLC-HFT-18-6-2c	1U	29.87	1.38	36.32	0.00
oLC-HFT-18-6-2d	1U	29.95	1.28	36.43	0.00
oLC-HFT-18-6-2d	1U	29.95	1.28	36.43	0.00
oLC-HFT-18-6-2e	1S	29.73	1.09	37.04	0.00
oLC-HFT-18-6-2e	1S	29.73	1.09	37.04	0.00
oLC-HFT-18-6-2f	2A	30.13	1.55	35.79	0.00
oLC-HFT-18-6-3a	1U	29.81	1.35	36.19	0.00
oLC-HFT-18-6-3a	1U	29.81	1.35	36.19	0.00
oLC-HFT-18-6-3c	1U	29.54	1.40	35.50	0.00
oLC-HFT-18-6-3c	1U	29.54	1.40	35.50	0.00
oLC-HFT-18-6-3d	1S	29.29	1.47	35.37	0.00
oLC-HFT-18-6-3e	1U	29.85	1.38	36.11	0.00
oLC-HFT-18-6-3f	1U	29.93	1.32	36.33	0.00
oLC-HFT-18-6-3f	1U	29.93	1.32	36.33	0.00
oLC-HFT-18-6-3g	1U	29.55	1.52	35.23	0.00
oLC-HFT-18-6-3g	1U	29.55	1.52	35.23	0.00
oLC-HFT-18-6-3h	1U	29.30	1.49	34.89	0.01
oLC-HFT-18-6-3i	2A	30.20	1.59	36.05	0.00
oLC-HFT-18-6-4a	1Up	30.09	1.17	36.73	0.00
oLC-HFT-18-6-4a	1Up	30.09	1.17	36.73	0.00
oLC-HFT-18-6-4b	1Up	30.20	1.34	36.74	0.00
oLC-HFT-18-6-4b	1Up	30.20	1.34	36.74	0.00
oLC-HFT-18-6-4c	1Up	30.03	1.21	36.88	0.00
oLC-HFT-18-6-4c	1Up	30.03	1.21	36.88	0.00
oLC-HFT-18-6-4d	1S	29.61	1.17	36.46	0.00
oLC-HFT-18-6-4d	1S	29.61	1.17	36.46	0.00
oLC-HFT-18-6-4e	1S	29.52	1.17	36.54	0.00
oLC-HFT-18-6-4e	1S	29.52	1.17	36.54	0.00

oLC-HFT-18-6-5a	1Up	29.69	1.12	36.76	0.00
oLC-HFT-18-6-5a	1Up	29.69	1.12	36.76	0.00
oLC-HFT-18-6-5b	1Up	29.86	1.43	35.87	0.00
oLC-HFT-18-6-5b	1Up	29.86	1.43	35.87	0.00
oLC-HFT-18-6-5c	1S	29.32	1.23	35.70	0.00
oLC-HFT-18-6-5d	1Up	29.79	1.56	35.57	0.00
oLC-HFT-18-6-5d	1Up	29.79	1.56	35.57	0.00
oLC-HFT-18-6-5e	1Up	29.91	1.41	35.66	0.00
oLC-HFT-18-6-5f	1Up	29.26	1.50	35.20	0.01
oLC-HFT-18-6-5h	1Up	29.78	1.00	37.77	0.00
oLC-HFT-18-6-5h	1Up	29.78	1.00	37.77	0.00
oLC-HFT-18-6-6a	1	30.12	1.25	36.55	0.00
oLC-HFT-18-6-6b	1	29.89	1.30	36.16	0.00
oLC-HFT-18-6-6c	1	29.63	1.41	35.91	0.00
oLC-HFT-18-6-6d	1	29.12	1.38	35.87	0.00
oLC-HFT-18-6-6e	1	29.66	1.03	37.18	0.00
oLC-SB-18-5-1a	1	29.67	1.08	36.90	0.00
oLC-SB-18-5-1b	1U	29.82	1.29	36.44	0.00
oLC-SB-18-5-1c	1U	29.44	1.46	35.70	0.00
oLC-SB-18-5-1d	1U	29.83	0.95	37.18	0.00
oLC-SB-18-5-1e	1U	29.39	1.35	35.99	0.00
oLC-SB-18-5-1e	1U	29.63	1.31	35.90	0.00
oLC-SB-18-5-1f	1U	29.41	1.51	35.51	0.00
oLC-SB-18-5-2a	1S	29.28	1.19	34.80	0.00
oLC-SB-18-5-2b	1Pcc	29.67	1.04	36.57	0.00
oLC-SB-18-5-2c	1U	29.33	1.19	35.87	0.00
oLC-SB-18-5-2d	1U	29.43	1.20	36.06	0.00
oLC-SB-18-5-2d	1Pcc	29.33	1.16	36.24	0.00
oLC-SB-18-5-2e	1U	29.85	1.31	35.43	0.00
oLC-SB-18-5-2f	1U	29.29	1.23	34.72	0.00
oLC-SB-18-5-3a	1U	29.05	1.19	34.47	0.00
oLC-SB-18-5-3b	1PC	29.48	1.40	35.73	0.00
oLC-SB-18-5-3c	1U	29.34	1.20	35.94	0.00
oLC-SB-18-5-3d	1U	29.40	1.22	36.08	0.00
oLC-SB-18-5-3e	1Pcc	29.72	1.19	36.88	0.00
oLC-SB-18-5-3f	1U	29.71	1.39	35.44	0.00
oLC-SB-18-5-3g	1PC	29.35	1.33	35.46	0.00
oLC-SB-18-5-4a	1	29.38	1.18	33.78	0.00
oLC-SB-18-5-4b	1	29.34	1.17	36.50	0.00
oLC-SB-18-5-4c	1	29.62	1.51	35.42	0.00
oLC-SB-18-5-4d	1	29.71	1.18	36.34	0.00
oLC-SB-18-5-4e	1	29.80	1.42	35.83	0.00
oLC-SB-18-5-5a	1PC	29.27	1.35	35.68	0.00
oLC-SB-18-5-5b	1U	30.00	1.27	36.56	0.00
oLC-SB-18-5-5c	1U	30.07	1.22	36.67	0.00
oLC-SB-18-5-5d	1U	29.35	1.20	36.53	0.00
oLC-SB-18-5-5e	1O	29.39	0.99	36.55	0.00
oLC-SB-18-5-5f	1O	29.16	1.03	36.01	0.00

LC-HFT-18-1-1-a	2A	30.12	1.82	34.86	0.00
LC-HFT-18-1-1-b	2A	30.08	1.36	35.71	0.00
LC-HFT-18-1-1-c	1O	29.93	1.38	35.71	0.00
LC-HFT-18-1-1-d	1O	29.78	1.35	35.43	0.00
LC-HFT-18-1-1-e	1O	29.76	1.53	35.40	0.00
LC-HFT-18-1-1-f	1Pc	29.47	1.10	35.67	0.00
LC-HFT-18-1-1-g	1Pc	29.36	1.32	35.07	0.00
LC-HFT-18-1-1-h	1Pc	29.47	1.30	34.96	0.00
LC-HFT-18-1-1-i	1Pc	29.15	1.14	35.20	0.00
LC-HFT-18-1-1-j	1Pc	29.32	1.12	35.62	0.00
LC-HFT-18-1-1-k	1Pc	29.13	1.35	35.12	0.00
LC-HFT-18-1-1-l	1Pc	29.43	1.37	35.00	0.00
LC-HFT-18-1-1-m	1Pc	29.80	1.12	36.30	0.00
LC-HFT-18-1-1-n	1Pc	29.70	1.17	36.22	0.00
LC-HFT-18-1-1-o	1Pc	28.84	1.33	34.61	0.00
LC-HFT-18-1-1-p	1Pc	29.74	1.20	36.04	0.00
LC-HFT-18-1-1-q	1Pc	28.96	1.40	34.68	0.00
LC-HFT-18-1-1-r	1Pc	28.82	1.24	34.68	0.00
LC-HFT-18-1-1-s	1O	29.25	1.31	35.24	0.00
LC-HFT-18-1-1-t	2A	29.89	1.51	35.56	0.00
LC-HFT-18-1-1-u	2A	30.13	1.66	35.11	0.00
LC-HFT-18-1-1-v	1Pc	29.55	1.15	36.08	0.00
LC-HFT-18-1-1-w	2A	29.81	1.47	35.56	0.00
LC-HFT-18-1-1-x	1Pc	29.15	1.05	36.13	0.00
LC-HFT-18-1-1-y	1Pc	29.42	1.24	36.14	0.00
LC-HFT-18-1-1-z	1Pc	28.89	1.16	35.29	0.00
LC-HFT-18-1-1-aa	1S	28.40	1.38	34.11	0.00
LC-HFT-18-1-1-ab	1Pc	29.15	1.13	35.66	0.00
LC-HFT-18-1-1-ac	1Pc	29.20	1.11	36.15	0.00
LC-HFT-18-1-1-ad	2A	30.03	1.69	35.01	0.00
LC-HFT-18-1-1-ae	1O	29.54	1.30	35.58	0.00
LC-HFT-18-1-11-a	1O	29.96	1.21	35.76	0.00
LC-HFT-18-1-11-b	1U	30.27	1.42	35.67	0.00
LC-HFT-18-1-11-c	1U	30.31	1.38	35.86	0.00
LC-HFT-18-1-11-d	1U	29.71	1.30	35.61	0.00
LC-HFT-18-1-11-e	1S	29.47	1.20	35.44	0.00
LC-HFT-18-1-11-f	1S	29.52	1.09	35.76	0.00
LC-HFT-18-1-11-g	1S	29.21	1.20	35.42	0.00
LC-HFT-18-1-11-h	1U	29.74	1.15	36.18	0.00
LC-HFT-18-1-11-i	1U	30.02	1.47	35.51	0.00
LC-HFT-18-1-11-j	1U	29.99	1.52	35.38	0.00
LC-HFT-18-1-11-k	1Pc	29.87	1.19	36.60	0.00
LC-HFT-18-1-11-l	1Pc	29.76	1.32	35.53	0.00
LC-HFT-18-1-11-m	1Pc	29.20	1.24	35.41	0.00
LC-HFT-18-1-11-n	1Pc	29.27	1.29	36.08	0.00
LC-HFT-18-1-11-o	1S	29.26	1.13	36.47	0.00
LC-HFT-18-1-11-p	1Pc	29.84	1.33	35.99	0.00
LC-HFT-18-1-11-q	1S	29.46	1.20	36.30	0.00

LC-HFT-18-1-11-r	1U	29.39	1.47	35.77	0.00
LC-HFT-18-1-11-s	1U	29.73	1.30	36.43	0.00
LC-HFT-18-1-11-t	1Pc	29.84	1.18	36.92	0.00
LC-HFT-18-1-11-u	1Pc	29.67	1.10	37.28	0.00
LC-HFT-18-1-11-v	1U	29.55	1.36	35.93	0.00
LC-HFT-18-1-11-x	1O	29.92	1.51	35.77	0.00
LC-HFT-18-1-11-y	1Pc	29.62	1.45	36.12	0.00
LC-HFT-18-1-11-z	1S	28.82	1.23	35.45	0.00
LC-HFT-18-1-11-aa	1S	29.03	1.44	35.46	0.00
LC-HFT-18-1-11-ab	1O	29.56	1.36	35.76	0.00
LC-HFT-18-1-11-ac	1Pc	29.23	1.07	36.14	0.00
LC-HFT-18-1-11-ad	1U	29.56	1.43	35.99	0.00
LC-HFT-18-1-11-ae	2A	30.25	1.93	35.74	0.00
LC-HFT-18-1-11-af	1Pc	29.54	1.44	35.35	0.00
LC-HFT-18-1-012-a	2A	29.76	1.35	36.08	0.00
LC-HFT-18-1-012-b	2A	30.01	1.52	35.80	0.00
LC-HFT-18-1-012-c	2A	30.38	1.45	36.06	0.00
LC-HFT-18-1-012-d	2A	30.32	1.24	36.62	0.00
LC-HFT-18-1-012-e	2A	30.05	1.37	35.99	0.00
LC-HFT-18-1-012-f	2A	30.72	1.57	36.11	0.00
LC-HFT-18-1-012-g	1O	30.28	1.45	36.44	0.00
LC-HFT-18-1-012-h	1Pc	29.57	1.11	36.06	0.00
LC-HFT-18-1-012-i	1Pc	29.17	1.21	35.49	0.00
LC-HFT-18-1-012-j	1Pc	30.28	4.59	28.69	3.38
LC-HFT-18-1-012-k	1Pc	29.35	1.17	35.92	0.00
LC-HFT-18-1-012-l	1Pc	30.37	1.13	37.53	0.00
LC-HFT-18-1-012-m	1Pc	29.44	1.11	36.35	0.00
LC-HFT-18-1-012-n	1Pc	29.41	1.25	35.96	0.00
LC-HFT-18-1-012-o	1Pc	29.54	1.14	36.96	0.00
LC-HFT-18-1-012-p	1Pc	29.10	1.21	36.83	0.00
LC-HFT-18-1-012-q	1Pc	29.58	1.26	36.08	0.00
LC-HFT-18-1-012-r	1Pc	29.64	1.42	35.50	0.00
LC-HFT-18-1-012-s	1Pc	29.70	1.41	35.55	0.01
LC-HFT-18-1-012-t	1Pc	29.92	1.12	36.80	0.00
LC-HFT-18-1-012-u	1Pc	29.43	1.21	35.84	0.01
LC-HFT-18-1-012-v	1Pc	29.86	1.17	37.22	0.00
LC-HFT-18-1-012-w	1Pc	29.82	1.34	35.67	0.00
LC-HFT-18-1-012-x	1Pc	29.56	1.21	35.70	0.00
LC-HFT-18-1-012-y	1Pc	30.37	0.88	38.12	0.00
LC-HFT-18-1-012-z	1S	29.49	1.18	35.80	0.00
LC-HFT-18-1-012-aa	1U	30.02	1.44	35.68	0.00
LC-HFT-18-1-012-ab	1U	30.41	1.48	35.72	0.00
LC-HFT-18-1-012-ac	1U	30.17	1.48	35.58	0.00
LC-HFT-18-1-22-a	1U	29.85	1.03	36.37	0.00
LC-HFT-18-1-22-b	1U	30.05	1.14	36.19	0.00
LC-HFT-18-1-22-c	1U	30.14	1.03	36.55	0.00
LC-HFT-18-1-22-d	1U	30.22	1.26	36.41	0.00
LC-HFT-18-1-22-e	1U	29.83	1.21	36.05	0.00

LC-HFT-18-1-22-f	1U	29.97	0.94	36.65	0.00
LC-HFT-18-1-22-g	1U	29.54	1.10	36.32	0.00
LC-HFT-18-1-22-h	1U	30.38	1.18	36.54	0.00
LC-HFT-18-1-22-i	1O	29.62	1.28	36.53	0.00
LC-HFT-18-1-22-j	1O	30.02	1.12	36.51	0.00
LC-HFT-18-1-22-k	1U	29.73	1.18	35.88	0.00
LC-HFT-18-1-22-l	1O	30.53	1.00	36.97	0.00
LC-HFT-18-1-22-m	1O	29.81	1.15	35.79	0.00
LC-HFT-18-1-22-n	1U	29.48	1.19	36.13	0.00
LC-HFT-18-1-22-o	1U	30.44	1.20	37.32	0.00
LC-HFT-18-1-22-p	1U	29.31	1.21	36.22	0.00
LC-HFT-18-1-22-q	1U	29.94	1.42	36.00	0.00
LC-HFT-18-1-22-r	1U	30.04	1.45	36.40	0.00
LC-HFT-18-1-22-s	1U	29.79	1.17	36.25	0.00
LC-HFT-18-1-22-t	1U	29.52	1.22	35.81	0.00
LC-HFT-18-1-22-u	1U	30.06	1.10	36.86	0.00
LC-HFT-18-1-22-v	1U	29.47	1.16	35.71	0.00
LC-HFT-18-1-22-w	1U	29.80	1.19	36.18	0.00
LC-HFT-18-1-22-x	1U	30.00	1.13	36.95	0.00
LC-HFT-18-1-22-y	1U	30.05	1.31	36.08	0.00
LC-HFT-18-1-22-z	1U	29.95	1.08	36.73	0.00
LC-HFT-18-1-22-aa	1U	30.20	1.49	35.75	0.00
LC-HFT-18-1-22-ab	1U	29.89	1.30	35.83	0.00
LC-HFT-18-1-22-ac	1U	29.36	1.18	35.71	0.00
LC-HFT-18-1-22-ad	1U	30.00	1.22	36.32	0.00
LC-HFT-18-1-22-ae	1U	29.88	1.20	37.09	0.00
LC-HFT-18-1-22-af	1U	29.76	1.31	36.09	0.00
LC-HFT-18-1-22-ag	2	30.27	1.27	36.85	0.00
LC-HFT-18-1-22-ah	1	29.17	1.19	35.38	0.00
LC-HFT-18-1-22-ai	1	30.29	1.20	36.77	0.00
LC-HFT-18-1-22-aj	2	30.42	1.24	36.76	0.00
LC-HFT-18-1-22-ak	1	29.34	1.27	35.07	0.00
LC-HFT-18-1-22-al	1	29.53	1.30	35.55	0.00
LC-HFT-18-1-22-am	1	29.91	1.16	36.58	0.00
LC-HFT-18-1-22-an	1	30.00	1.37	36.18	0.00
LC-HFT-18-1-22-ao	1	29.93	1.27	36.21	0.00
LC-HFT-18-1-22-ap	1	29.90	1.10	36.59	0.00
LC-HFT-18-2-11-a	1O	29.01	1.36	35.45	0.00
LC-HFT-18-2-11-b	1O	29.61	1.34	35.76	0.00
LC-HFT-18-2-11-c	1O	29.83	1.27	36.01	0.00
LC-HFT-18-2-11-d	1Pc	29.94	1.14	37.02	0.00
LC-HFT-18-2-11-e	1U	30.13	1.18	36.90	0.00
LC-HFT-18-2-11-f	1O	29.54	1.39	35.72	0.00
LC-HFT-18-2-11-g	1Pc	29.99	1.18	36.85	0.00
LC-HFT-18-2-11-h	1Pc	29.64	1.12	36.49	0.00
LC-HFT-18-2-11-i	1O	29.45	1.67	35.16	0.00
LC-HFT-18-2-11-j	1Pc	29.43	1.07	37.10	0.00
LC-HFT-18-2-11-k	1U	29.53	1.27	37.13	0.00

LC-HFT-18-2-11-l	1O	28.64	1.40	35.55	0.00
LC-HFT-18-2-11-m	1Pc	29.64	1.30	35.78	0.00
LC-HFT-18-2-11-n	1Pc	30.10	0.99	37.43	0.00
LC-HFT-18-2-11-o	1O	29.68	1.25	35.98	0.00
LC-HFT-18-2-11-p	1O	29.86	1.52	35.48	0.00
LC-HFT-18-2-11-q	1Pc	29.60	1.30	35.67	0.00
LC-HFT-18-2-11-r	1O	29.40	1.40	35.34	0.00
LC-HFT-18-2-11-s	1U	29.79	1.13	36.86	0.00
LC-HFT-18-2-11-t	1Pc	29.76	1.14	36.83	0.00
LC-HFT-18-2-11-u	2T	29.64	1.51	35.10	0.00
LC-HFT-18-2-11-v	1O	29.87	1.20	36.26	0.00
LC-HFT-18-2-11-w	1O	30.08	1.25	36.56	0.00
LC-HFT-18-2-11-x	1Pc	29.87	1.23	36.57	0.00
LC-HFT-18-2-11-y	1Pc	30.08	1.27	36.50	0.00
LC-HFT-18-2-11-z	1S	29.07	1.13	35.97	0.00
LC-HFT-18-2-11-aa	1S	29.10	1.21	36.22	0.00
LC-HFT-18-2-11-ab	1Pc	29.75	1.12	37.02	0.00
LC-HFT-18-2-11-ac	1Pc	29.52	1.11	36.70	0.00
LC-HFT-18-2-11-ad	2A	29.70	1.30	36.00	0.00
LC-HFT-18-2-11-ae	1O	29.02	1.17	36.41	0.00
LC-HFT-18-2-11-af	1O	28.94	1.26	35.92	0.00
LC-HFT-18-2-014-a	1S	29.03	1.01	36.76	0.00
LC-HFT-18-2-014-b	1S	28.30	1.15	35.75	0.00
LC-HFT-18-2-014-c	1S	29.05	1.10	36.86	0.00
LC-HFT-18-2-014-d	1S	29.82	1.09	36.71	0.00
LC-HFT-18-2-014-e	1U	28.81	1.23	36.75	0.00
LC-HFT-18-2-014-f	1U	29.70	1.13	36.66	0.00
LC-HFT-18-2-014-g	1S	29.95	1.29	35.82	0.01
LC-HFT-18-2-014-h	1S	29.66	1.05	36.22	0.00
LC-HFT-18-2-014-i	1U	30.13	1.13	36.48	0.00
LC-HFT-18-2-014-j	1Pc	30.06	1.16	36.44	0.00
LC-HFT-18-2-014-k	1O	30.12	1.07	36.36	0.00
LC-HFT-18-2-014-l	1Pc	29.89	1.16	36.37	0.00
LC-HFT-18-2-014-m	1Pc	30.59	1.34	37.40	0.00
LC-HFT-18-2-014-n	1Pc	30.18	0.96	37.46	0.00
LC-HFT-18-2-014-o	1O	30.47	1.02	36.80	0.00
LC-HFT-18-2-014-p	1U	30.07	1.17	36.27	0.00
LC-HFT-18-2-014-q	1Pc	29.76	1.25	35.70	0.00
LC-HFT-18-2-014-r	1Pc	30.18	0.64	37.95	0.00
LC-HFT-18-2-014-s	1Pc	29.72	1.07	36.13	0.00
LC-HFT-18-2-014-t	1Pc	29.74	1.16	36.03	0.00
LC-HFT-18-2-014-u	1Pc	30.02	1.13	36.60	0.00
LC-HFT-18-2-014-v	2A	30.38	1.31	36.07	0.00
LC-HFT-18-2-014-w	1Pc	30.30	1.12	36.64	0.00
LC-HFT-18-2-014-x	1S	30.02	1.07	36.56	0.00
LC-HFT-18-2-014-y	1U	29.99	1.26	36.62	0.00
LC-HFT-18-2-014-z	1O	30.22	1.31	36.31	0.00
LC-HFT-18-2-014-aa	1Pc	30.08	1.58	34.63	0.00

LC-HFT-18-2-014-ab	1Pc	30.38	1.11	36.80	0.00
LC-HFT-18-2-014-ac	1Pc	29.87	1.05	36.38	0.00
LC-HFT-18-2-014-ad	1Pc	30.27	1.10	36.91	0.00
LC-HFT-18-2-014-ae	1Pc	30.25	1.02	36.72	0.00
LC-HFT-18-2-014-af	1O	29.54	1.13	35.81	0.00
LC-HFT-18-6-1a	1S	29.59	1.22	36.02	0.00
LC-HFT-18-6-1b	1U	29.64	1.02	36.65	0.00
LC-HFT-18-6-1c	1U	29.70	1.41	35.78	0.00
LC-HFT-18-6-1e	2A	29.98	0.82	37.59	0.00
LC-HFT-18-6-2a	1O	29.92	1.27	36.33	0.00
LC-HFT-18-6-2b	1O	29.83	1.12	37.04	0.00
LC-HFT-18-6-2c	1U	29.87	1.38	36.32	0.00
LC-HFT-18-6-2d	1O	29.95	1.28	36.43	0.00
LC-HFT-18-6-2e	1O	29.73	1.09	37.04	0.00
LC-HFT-18-6-2f	2A	30.13	1.55	35.79	0.00
LC-HFT-18-6-3a	1U	29.81	1.35	36.19	0.00
LC-HFT-18-6-3c	1U	29.54	1.40	35.50	0.00
LC-HFT-18-6-3d	1S	29.29	1.47	35.37	0.00
LC-HFT-18-6-3e	1U	29.85	1.38	36.11	0.00
LC-HFT-18-6-3f	1U	29.93	1.32	36.33	0.00
LC-HFT-18-6-3g	1U	29.55	1.52	35.23	0.00
LC-HFT-18-6-3h	1U	29.30	1.49	34.89	0.01
LC-HFT-18-6-3i	2A	30.20	1.59	36.05	0.00
LC-HFT-18-6-4a	1	30.09	1.17	36.73	0.00
LC-HFT-18-6-4b	1	30.20	1.34	36.74	0.00
LC-HFT-18-6-4c	1	30.03	1.21	36.88	0.00
LC-HFT-18-6-4d	1	29.61	1.17	36.46	0.00
LC-HFT-18-6-4e	1	29.52	1.17	36.54	0.00
LC-HFT-18-6-5a	1U	29.69	1.12	36.76	0.00
LC-HFT-18-6-5b	1U	29.86	1.43	35.87	0.00
LC-HFT-18-6-5c	1S	29.32	1.23	35.70	0.00
LC-HFT-18-6-5d	2A	29.79	1.56	35.57	0.00
LC-HFT-18-6-5e	1U	29.91	1.41	35.66	0.00
LC-HFT-18-6-5f	1U	29.26	1.50	35.20	0.01
LC-HFT-18-6-5h	1	29.78	1.00	37.77	0.00
LC-HFT-18-6-6a	1	30.12	1.25	36.55	0.00
LC-HFT-18-6-6b	1	29.89	1.30	36.16	0.00
LC-HFT-18-6-6c	1	29.63	1.41	35.91	0.00
LC-HFT-18-6-6d	1	29.12	1.38	35.87	0.00
LC-HFT-18-6-6e	1	29.66	1.03	37.18	0.00
LC-HFT-18-6-7-a	1S	29.39	1.24	35.18	0.00
LC-HFT-18-6-7-b	1U	30.23	0.97	37.03	0.00
LC-HFT-18-6-7-c	1U	30.04	1.33	35.70	0.00
LC-HFT-18-6-7-d	1S	29.76	1.08	36.43	0.00
LC-HFT-18-6-7-e	1U	30.23	1.33	36.21	0.00
LC-HFT-18-6-7-f	1O	30.07	1.16	36.31	0.00
LC-HFT-18-6-7-g	1S	30.03	1.02	36.72	0.00
LC-HFT-18-6-7-g	1S	30.11	0.97	36.76	0.00

LC-HFT-18-6-7-h	1U	29.77	1.39	35.70	0.00
LC-HFT-18-6-7-i	1U	29.91	1.29	35.87	0.00
LC-HFT-18-6-7-j	1U	30.32	1.33	35.94	0.00
LC-HFT-18-6-7-k	1U	30.10	1.27	35.85	0.00
LC-HFT-18-6-7-l	1U	29.66	1.21	35.80	0.00
LC-HFT-18-6-7-n	1U	29.75	1.40	35.71	0.00
LC-HFT-18-6-7-o	1U	29.93	1.13	36.33	0.00
LC-HFT-18-6-7-p	1Pc	29.94	1.27	35.94	0.00
LC-HFT-18-6-7-q	1Pc	30.53	0.96	37.45	0.00
LC-HFT-18-6-7-r	1Pc	30.06	1.01	36.99	0.00
LC-HFT-18-6-7-s	1Pc	29.81	1.08	36.64	0.00
LC-HFT-18-6-7-t	1Pc	30.22	1.16	37.21	0.00
LC-HFT-18-6-7-u	1Pc	29.64	1.08	36.43	0.00
LC-HFT-18-6-7-v	1Pc	29.55	1.12	36.23	0.00
LC-HFT-18-6-7-w	1Pc	30.25	0.95	37.29	0.00
LC-HFT-18-6-7-x	1Pc	29.71	1.22	35.89	0.00
LC-HFT-18-6-7-y	1Pc	30.00	1.46	35.26	0.00
LC-HFT-18-6-7-z	1Pc	30.05	0.99	36.91	0.00
LC-HFT-18-6-7-aa	1Pc	29.89	1.05	37.16	0.00
LC-HFT-18-6-7-ab	1Pc	29.81	1.28	36.23	0.00
LC-HFT-18-6-013-a	1Pc	29.57	1.23	35.48	0.00
LC-HFT-18-6-013-b	1Pc	30.00	1.01	36.78	0.00
LC-HFT-18-6-013-c	1Pc	29.61	1.40	34.96	0.00
LC-HFT-18-6-013-d	1Pc	29.77	1.03	37.04	0.00
LC-HFT-18-6-013-e	1Pc	29.90	1.21	36.31	0.00
LC-HFT-18-6-013-f	1Pc	29.43	1.19	35.64	0.00
LC-HFT-18-6-013-g	1Pc	29.22	1.23	35.18	0.00
LC-HFT-18-6-013-h	1Pc	29.75	1.26	36.21	0.00
LC-HFT-18-6-013-i	1Up	30.20	1.13	36.90	0.00
LC-HFT-18-6-013-j	1Up	29.80	1.19	36.74	0.00
LC-HFT-18-6-013-k	1Up	30.11	1.33	35.86	0.00
LC-HFT-18-6-013-l	1Up	30.06	1.16	36.98	0.00
LC-HFT-18-6-013-m	1S	29.28	1.25	35.01	0.00
LC-HFT-18-6-013-n	1Up	29.78	1.34	35.88	0.00
LC-HFT-18-6-013-o	1Up	29.72	1.29	35.79	0.00
LC-HFT-18-6-013-p	1Pc	29.43	1.38	35.32	0.00
LC-HFT-18-6-013-q	1Up	30.03	1.36	36.06	0.00
LC-HFT-18-6-013-r	1Up	30.28	0.99	37.02	0.00
LC-HFT-18-6-013-s	1Up	29.67	1.04	36.77	0.00
LC-HFT-18-6-013-t	1Up	29.71	1.08	36.60	0.00
LC-HFT-18-6-013-u	1S	28.49	1.26	35.23	0.00
LC-HFT-18-6-013-v	1S	29.49	1.17	35.81	0.00
LC-HFT-18-6-013-x	1Up	29.60	1.17	36.15	0.00
LC-HFT-18-6-015-a	1Up	30.14	1.05	36.73	0.00
LC-HFT-18-6-015-b	1Up	30.18	1.03	36.59	0.00
LC-HFT-18-6-015-c	1S	29.28	1.24	35.02	0.00
LC-HFT-18-6-015-d	1S	28.94	1.24	35.09	0.00
LC-HFT-18-6-015-e	1Up	29.72	1.21	35.71	0.00

LC-HFT-18-6-015-f	1Up	29.89	1.43	35.07	0.00
LC-HFT-18-6-015-g	1Up	30.19	1.43	35.52	0.00
LC-HFT-18-6-015-h	1Up	30.20	1.44	35.88	0.00
LC-HFT-18-6-015-i	1Up	29.96	1.32	36.24	0.00
LC-HFT-18-6-015-j	1Up	30.12	1.25	36.12	0.00
LC-HFT-18-6-015-k	1Up	30.00	1.00	36.97	0.00
LC-HFT-18-6-015-l	1Up	30.13	1.06	36.18	0.00
LC-HFT-18-6-015-m	1Up	29.69	1.27	36.18	0.00
LC-HFT-18-6-015-n	1Up	30.21	1.34	35.99	0.00
LC-HFT-18-6-015-o	1S	29.27	1.40	35.22	0.00
LC-HFT-18-6-015-p	1Up	30.23	1.22	36.76	0.00
LC-HFT-18-6-015-q	1S	29.69	1.07	36.51	0.00
LC-HFT-18-6-015-r	1Up	30.27	1.10	36.57	0.00
LC-HFT-18-6-015-s	1Up	30.93	1.04	36.21	0.00
LC-HFT-18-6-015-t	1Up	29.64	1.03	36.85	0.00
LC-HFT-18-6-015-u	1Up	30.08	1.06	36.84	0.00
LC-HFT-18-6-015-v	1S	29.88	1.11	36.42	0.00
LC-HFT-18-6-015-w	1Up	30.19	1.19	36.02	0.00
LC-HFT-18-6-015-x	1Up	30.03	1.13	36.30	0.00
LC-HFT-18-6-015-y	1Up	30.12	1.18	36.31	0.00
LC-HFT-18-6-015-z	1Up	30.29	1.25	36.01	0.00
LC-HFT-18-6-015-aa	1Up	30.33	1.25	36.14	0.00
LC-HFT-18-6-015-ab	1Up	30.39	1.30	36.20	0.00
LC-HFT-18-6-015-ac	1Up	29.53	1.32	35.37	0.00
LC-HFT-18-6-015-ad	1S	30.39	1.32	36.02	0.00
LC-HFT-18-6-015-ae	2A	29.65	1.13	35.97	0.00
LC-HFT-18-6-015-af	1Up	30.50	1.21	35.90	0.00
LC-HFT-18-6-015-ag	1Up	30.15	1.31	36.13	0.00
LC-HFT-18-6-032-a	1Up	30.05	1.10	36.39	0.00
LC-HFT-18-6-032-b	1Up	30.08	1.38	35.99	0.00
LC-HFT-18-6-032-c	1Up	30.12	1.42	35.70	0.00
LC-HFT-18-6-032-d	1Up	30.14	1.45	35.57	0.00
LC-HFT-18-6-032-e	1Up	30.12	1.32	35.55	0.00
LC-HFT-18-6-032-f	1Up	29.93	1.16	36.27	0.00
LC-HFT-18-6-032-g	1Up	29.79	1.10	36.63	0.00
LC-HFT-18-6-032-h	1Up	30.27	1.34	36.08	0.00
LC-HFT-18-6-032-i	1Up	30.11	1.27	35.95	0.00
LC-HFT-18-6-032-j	1Up	30.40	1.48	35.91	0.00
LC-HFT-18-6-032-k	1Up	30.09	1.11	36.42	0.00
LC-HFT-18-6-032-l	1Up	30.04	1.20	36.20	0.00
LC-HFT-18-6-032-m	1Up	29.80	1.12	36.63	0.00
LC-HFT-18-6-032-n	1Up	30.11	1.20	36.58	0.00
LC-HFT-18-6-032-o	1Up	30.05	1.19	36.40	0.00
LC-HFT-18-6-032-p	1Up	30.00	1.41	35.83	0.00
LC-HFT-18-6-032-q	1Up	30.27	1.32	35.73	0.00
LC-HFT-18-6-032-r	1Up	30.32	1.46	35.94	0.00
LC-HFT-18-6-032-s	1Up	29.96	1.16	36.03	0.00
LC-HFT-18-6-032-t	1Up	29.90	1.37	35.74	0.00

LC-HFT-18-6-032-u	1Up	30.36	1.17	36.56	0.00
LC-HFT-18-6-032-v	1Up	30.42	0.99	36.97	0.00
LC-HFT-18-6-032-w	1Up	30.17	1.39	35.61	0.00
LC-HFT-18-6-032-x	1Up	30.11	1.03	36.60	0.00
LC-HFT-18-6-032-y	1Up	30.25	1.21	36.52	0.00
LC-HFT-18-6-032-z	1Up	30.15	1.24	36.21	0.00
LC-HFT-18-6-032-aa	1Up	30.19	1.43	35.84	0.00
LC-HFT-18-6-032-ab	1Up	29.94	1.02	37.12	0.00
LC-HFT-18-6-032-ac	1Up	29.91	1.18	36.11	0.00
LC-HFT-18-6-032-ad	1Up	30.17	1.17	36.59	0.00
LC-HFT-18-6-032-ae	1Up	30.11	0.97	37.02	0.00
LC-HFT-18-6-032-af	1Up	30.17	1.03	36.46	0.00
HFT-18-6-032-ag	1Up	30.27	1.37	35.71	0.00
LC-SB-18-4-3-a	2A	29.95	1.32	35.89	0.00
LC-SB-18-4-3-b	1Pc	29.74	1.21	35.72	0.00
LC-SB-18-4-3-c	1Pc	28.89	1.34	34.15	0.00
LC-SB-18-4-3-d	1Pc	29.12	1.54	33.31	0.00
LC-SB-18-4-3-e	1Pc	29.77	1.19	36.17	0.00
LC-SB-18-4-3-f	1Pc	29.88	1.24	36.19	0.00
LC-SB-18-4-3-g	1Pc	29.11	1.23	35.09	0.00
LC-SB-18-4-3-h	1Pc	29.82	1.17	36.20	0.00
LC-SB-18-4-3-i	1Pc	29.69	1.04	36.34	0.00
LC-SB-18-4-3-j	1Pc	30.06	1.37	36.07	0.00
LC-SB-18-4-3-k	1Pc	29.75	1.23	36.04	0.00
LC-SB-18-4-3-l	1O	29.91	1.32	35.98	0.00
LC-SB-18-4-3-m	1O	29.85	1.18	35.75	0.00
LC-SB-18-4-3-n	1O	29.65	1.16	35.61	0.00
LC-SB-18-4-3-o	2A	29.69	1.25	35.18	0.00
LC-SB-18-4-3-p	1Pc	29.42	1.19	35.62	0.00
LC-SB-18-4-3-q	1Pc	29.56	1.06	36.93	0.00
LC-SB-18-4-3-r	1Pc	29.91	1.22	35.49	0.00
LC-SB-18-4-3-s	1Pc	29.14	1.04	35.72	0.00
LC-SB-18-4-3-t	1Pc	29.68	1.33	35.11	0.00
LC-SB-18-4-3-u	1Pc	29.81	0.99	36.58	0.00
LC-SB-18-4-3-v	1Pc	30.00	1.04	36.55	0.00
LC-SB-18-4-3-w	1Pc	29.18	1.08	35.42	0.01
LC-SB-18-4-3-x	1Pc	29.75	1.10	36.28	0.00
LC-SB-18-4-3-y	1Pc	28.62	1.27	33.69	0.00
LC-SB-18-4-3-z	1U	29.78	0.98	36.35	0.00
LC-SB-18-4-3-aa	1Pc	29.31	1.12	35.54	0.00
LC-SB-18-4-3-ab	1Pc	29.94	1.26	35.94	0.00
LC-SB-18-4-3-ac	1Pc	29.94	1.17	36.14	0.00
LC-SB-18-4-3-ad	1U	29.84	0.95	36.69	0.00
LC-SB-18-4-6-a	1Pc	29.33	1.34	34.42	0.01
LC-SB-18-4-6-b	1Pc	29.14	1.57	34.28	0.00
LC-SB-18-4-6-c	1U	30.21	1.16	36.15	0.00
LC-SB-18-4-6-d	1Pc	29.98	1.01	36.42	0.00
LC-LC-SB-18-4-6-e	1Pc	29.99	1.17	36.06	0.00

LC-SB-18-4-6-f	1Pc	29.88	1.16	36.22	0.00
LC-SB-18-4-6-g	1Pc	29.76	1.44	36.00	0.00
LC-SB-18-4-6-h	1Pc	29.66	1.16	36.00	0.00
LC-SB-18-4-6-i	1Pc	29.70	1.31	35.82	0.01
LC-SB-18-4-6-j	1S	27.89	1.69	33.28	0.10
LC-SB-18-4-6-k	1S	30.66	2.16	31.86	0.00
LC-SB-18-4-6-l	1S	28.62	1.58	33.02	0.01
LC-SB-18-4-6-m	1S	29.12	1.36	34.87	0.00
LC-SB-18-4-6-n	1O	29.51	1.18	35.74	0.01
LC-SB-18-4-6-o	1O	29.73	1.30	35.88	0.00
LC-SB-18-4-6-q	2A	29.93	1.23	35.37	0.00
LC-SB-18-4-6-r	2A	29.86	1.28	35.36	0.00
LC-SB-18-4-6-s	1U	29.26	1.25	36.37	0.00
LC-SB-18-4-6-t	1Pc	30.21	1.16	36.96	0.00
LC-SB-18-4-6-u	1Pc	29.53	1.36	35.37	0.00
LC-SB-18-4-6-v	1Pc	29.68	1.17	35.66	0.00
LC-SB-18-4-6-w	1Pc	29.98	1.09	36.45	0.01
LC-SB-18-4-6-x	1Pc	29.88	1.25	36.46	0.00
LC-SB-18-4-6-z	1Pc	29.28	1.37	34.88	0.00
LC-SB-18-4-6-aa	1S	28.98	1.23	35.18	0.00
LC-SB-18-4-6-ab	1O	29.17	1.01	36.09	0.01
LC-SB-18-4-6-ac	2A	29.94	1.50	34.77	0.00
LC-SB-18-4-6-ad	2A	29.74	1.29	35.20	0.00
LC-SB-18-4-6-ae	1Pc	28.27	1.26	34.04	0.00
LC-SB-18-4-10-a	1U	29.77	1.13	36.44	0.00
LC-SB-18-4-10-b	1O	29.89	1.22	36.46	0.00
LC-SB-18-4-10-c	1O	29.86	1.16	36.14	0.00
LC-SB-18-4-10-d	1U	30.03	1.21	36.50	0.00
LC-SB-18-4-10-e	1O	29.89	1.27	35.78	0.00
LC-SB-18-4-10-f	1Pc	29.93	1.25	36.37	0.00
LC-SB-18-4-10-g	1Pc	30.21	1.36	35.90	0.00
LC-SB-18-4-10-h	1Pc	29.79	1.52	35.10	0.00
LC-SB-18-4-10-i	1Pc	29.95	1.33	36.12	0.00
LC-SB-18-4-10-j	1Pc	29.91	1.21	36.35	0.00
LC-SB-18-4-10-k	1Pc	29.86	1.25	36.14	0.00
LC-SB-18-4-10-l	2A	30.27	1.33	36.34	0.00
LC-SB-18-4-10-m	1Pc	29.72	1.44	34.58	0.00
LC-SB-18-4-10-n	1Pc	29.91	1.18	36.51	0.00
LC-SB-18-4-10-o	1S	29.37	1.16	35.96	0.00
LC-SB-18-4-10-p	1Pc	29.93	1.19	36.55	0.00
LC-SB-18-4-10-q	1Pc	30.06	1.31	36.27	0.00
LC-SB-18-4-10-r	1U	29.43	1.20	36.05	0.00
LC-SB-18-4-10-s	1U	29.87	1.09	36.32	0.00
LC-SB-18-4-10-t	1O	29.61	1.15	35.22	0.00
LC-SB-18-4-10-u	1O	30.02	1.21	36.05	0.00
LC-SB-18-4-10-v	1O	29.95	1.20	36.25	0.00
LC-SB-18-4-10-Bb	1S	29.48	1.13	35.81	0.00
LC-SB-18-4-10-Bc	1S	29.54	1.12	35.93	0.00

LC-SB-18-4-10-Bd	1S	29.55	1.08	36.00	0.00
LC-SB-18-4-10-Be	1U	29.93	1.22	35.93	0.00
LC-SB-18-4-10-Bf	1U	29.87	1.26	35.74	0.00
LC-SB-18-4-10-Bg	1S	28.93	1.50	34.04	0.00
LC-SB-18-4-10-Bh	1U	29.36	1.04	35.08	0.00
LC-SB-18-4-10-Bi	1U	29.65	1.24	35.35	0.00
LC-SB-18-4-10-Ca	2A	30.07	1.50	35.47	0.00
LC-SB-18-4-10-Cb	1U	29.78	1.25	35.33	0.00
LC-SB-18-4-10-Cc	2A	29.61	1.49	35.51	0.00
LC-SB-18-4-20-a	1O	29.65	1.19	35.94	0.00
LC-SB-18-4-20-b	2A	30.17	1.32	36.30	0.00
LC-SB-18-4-20-c	2A	30.10	1.25	35.81	0.00
LC-SB-18-4-20-d	2A	30.15	1.27	35.31	0.00
LC-SB-18-4-20-e	1S	29.36	1.24	35.03	0.00
LC-SB-18-4-20-f	1S	29.16	1.17	35.23	0.00
LC-SB-18-4-20-g	1U	29.95	1.20	36.14	0.00
LC-SB-18-4-20-h	1S	29.27	1.17	35.18	0.00
LC-SB-18-4-20-i	1S	29.70	1.18	35.07	0.00
LC-SB-18-4-20-j	1S	29.36	1.35	34.40	0.00
LC-SB-18-4-20-k	1U	29.47	1.40	34.84	0.00
LC-SB-18-4-20-l	1U	30.01	1.21	36.17	0.00
LC-SB-18-4-20-m	1U	29.62	1.12	36.29	0.00
LC-SB-18-4-20-n	1U	29.30	1.17	36.04	0.00
LC-SB-18-4-20-o	1O	29.87	1.33	35.99	0.00
LC-SB-18-4-20-p	1U	29.62	1.08	36.22	0.00
LC-SB-18-4-20-q	1U	29.57	1.05	35.98	0.00
LC-SB-18-4-20-r	1S	28.90	1.18	32.33	0.00
LC-SB-18-4-20-s	2A	30.02	1.40	35.77	0.00
LC-SB-18-4-20-t	2A	29.83	1.29	35.34	0.00
LC-SB-18-4-20-u	2A	30.07	1.34	35.66	0.00
LC-SB-18-4-20-v	2A	29.95	1.31	35.83	0.00
LC-SB-18-4-20-w	2A	29.19	1.20	32.77	0.00
LC-SB-18-4-20-x	2A	29.69	1.31	35.75	0.00
LC-SB-18-4-20-y	2A	29.98	1.25	35.57	0.00
LC-SB-18-4-22-a	1Pc	30.10	1.13	36.46	0.00
LC-SB-18-4-22-b	1Pc	29.88	1.15	36.20	0.00
LC-SB-18-4-22-c	1Pc	29.93	1.26	35.74	0.00
LC-SB-18-4-22-d	1Pc	30.00	1.27	36.13	0.00
LC-SB-18-4-22-e	1Pc	29.97	1.06	36.14	0.00
LC-SB-18-4-22-f	1O	29.47	1.26	35.68	0.00
LC-SB-18-4-22-g	1O	30.15	1.36	35.68	0.00
LC-SB-18-4-22-h	1S	29.34	1.28	34.53	0.01
LC-SB-18-4-22-i	1Pc	30.04	1.48	35.13	0.00
LC-SB-18-4-22-j	1Pc	29.96	1.16	36.08	0.00
LC-SB-18-4-22-k	1O	30.48	1.46	35.37	0.00
LC-SB-18-4-22-l	1O	29.99	1.39	35.26	0.00
LC-SB-18-4-22-m	1S	29.58	1.17	35.12	0.00
LC-SB-18-4-22-n	1Pc	30.00	1.40	35.33	0.00

LC-SB-18-4-22-o	1Pc	30.31	1.08	36.07	0.00
LC-SB-18-4-22-p	1O	30.00	1.40	35.10	0.00
LC-SB-18-4-22-q	1O	29.74	1.31	35.30	0.00
LC-SB-18-4-22-r	1O	29.78	1.22	35.16	0.00
LC-SB-18-4-22-s	1O	29.93	1.46	35.39	0.00
LC-SB-18-4-22-t	1O	29.57	1.32	35.14	0.00
LC-SB-18-4-22-u	1U	29.63	1.11	35.60	0.00
LC-SB-18-4-22-v	1U	29.68	1.20	35.66	0.00
LC-SB-18-4-22-w	1O	29.65	1.26	35.45	0.00
LC-SB-18-4-22-x	1O	29.72	1.38	35.48	0.00
LC-SB-18-4-22-y	1O	29.71	1.36	35.17	0.00
LC-SB-18-4-22-z	1O	29.62	1.48	34.77	0.00
LC-SB-18-4-22-aa	1O	29.68	1.44	34.75	0.00
LC-SB-18-4-22-ab	1O	29.93	1.35	35.34	0.00
LC-SB-18-4-22-ac	1O	29.78	1.21	35.48	0.00
LC-SB-18-4-22-ad	1O	29.69	1.30	35.54	0.00
LC-SB-18-4-22-ae	1O	29.90	1.24	35.71	0.00
LC-SB-18-4-22-af	1O	30.04	1.26	35.63	0.00
LC-SB-18-4-22-ag	1O	29.99	1.43	35.57	0.00
LC-SB-18-4-22-ah	1O	29.39	1.20	35.55	0.00
LC-SB-18-4-22-ai	2A	29.90	1.26	35.68	0.00
LC-SB-18-4-22-aj	2A	29.99	1.29	35.84	0.00
LC-SB-18-4-22-ak	1Pc	29.61	1.25	35.36	0.00
LC-SB-18-4-22-al	1S	29.47	1.22	35.61	0.00
LC-SB-18-4-22-am	1Pc	30.13	1.31	36.25	0.00
LC-SB-18-4-22-an	1Pc	29.81	1.14	36.48	0.00
LC-SB-18-4-22-ao	2T	30.52	1.49	37.01	0.00
LC-SB-18-4-22-ap	2T	30.35	1.81	36.49	0.00
LC-SB-18-4-22-aq	1O	30.14	1.31	35.88	0.00
LC-SB-18-4-22-ar	2T	30.10	1.39	35.80	0.00
LC-SB-18-4-22-as	1U	30.38	1.18	36.13	0.00
LC-SB-18-4-22-at	1O	29.83	1.29	35.86	0.00
LC-SB-18-4-22-au	1O	29.90	1.42	34.92	0.00
LC-SB-18-5-20-a	1O	29.45	1.30	35.66	0.00
LC-SB-18-5-20-b	1U	29.64	1.20	36.28	0.00
LC-SB-18-5-20-c	2A	30.02	1.16	36.18	0.00
LC-SB-18-5-20-d	1O	29.77	1.23	35.84	0.00
LC-SB-18-5-20-e	1U	29.72	1.25	36.07	0.00
LC-SB-18-5-20-f	1U	29.30	1.05	35.18	0.00
LC-SB-18-5-20-g	1O	29.97	1.32	35.59	0.00
LC-SB-18-5-20-h	1U	29.78	1.19	35.59	0.00
LC-SB-18-5-20-i	1U	29.84	1.23	36.10	0.00
LC-SB-18-5-20-j	1O	30.20	1.15	36.35	0.00
LC-SB-18-5-20-k	1O	29.52	1.30	35.48	0.00
LC-SB-18-5-20-l	1U	29.84	1.30	35.89	0.00
LC-SB-18-5-20-m	1U	29.41	1.10	36.14	0.00
LC-SB-18-5-20-n	1U	29.92	1.32	36.01	0.00
LC-SB-18-5-20-o	1U	29.63	1.19	35.95	0.00

LC-SB-18-5-20-p	1U	29.77	1.29	35.89	0.00
LC-SB-18-5-20-q	2A	29.95	1.20	36.50	0.00
LC-SB-18-5-20-r	2A	29.93	1.16	36.49	0.00
LC-SB-18-5-20-s	1O	29.44	1.22	35.74	0.00
LC-SB-18-5-20-t	2A	29.86	1.06	36.45	0.00
LC-SB-18-5-20-u	2A	30.02	1.33	36.00	0.00
LC-SB-18-5-20-v	2A	29.98	1.35	35.90	0.00
LC-SB-18-5-20-w	2A	29.97	1.28	36.08	0.00
LC-SB-18-5-20-x	1Pc	29.49	1.33	35.35	0.00
LC-SB-18-5-20-y	1Pc	29.54	1.45	35.31	0.00
LC-SB-18-5-20-z	1Pc	29.66	1.05	36.71	0.00
LC-SB-18-5-20-aa	1Pc	29.53	1.47	35.33	0.00
LC-SB-18-5-20-ab	2A	29.92	1.29	36.07	0.00
LC-SB-18-5-20-ac	1Pc	29.70	1.47	35.79	0.00
LC-SB-18-5-20-ad	1Pc	29.66	1.12	36.17	0.00
LC-SB-18-5-20-ae	2A	30.07	1.22	36.18	0.00
LC-SB-18-5-20-af	1U	29.60	1.14	35.96	0.00
LC-SB-18-5-20-ag	1U	30.10	1.12	36.01	0.00
LC-SB-18-5-018-a	1Pc	30.16	1.04	37.31	0.00
LC-SB-18-5-018-b	1Pc	30.31	1.24	36.98	0.00
LC-SB-18-5-018-c	1Pc	29.32	1.15	36.16	0.00
LC-SB-18-5-018-d	1Pc	29.66	1.20	36.59	0.00
LC-SB-18-5-018-e	1Pc	30.18	0.97	37.74	0.00
LC-SB-18-5-018-f	1Pc	29.80	1.09	36.16	0.00
LC-SB-18-5-018-g	1Pc	30.25	1.04	37.19	0.01
LC-SB-18-5-018-h	1Pc	29.68	1.16	36.32	0.00
LC-SB-18-5-018-i	1Pc	29.82	1.17	36.46	0.00
LC-SB-18-5-018-j	1Pc	29.92	1.38	36.46	0.00
LC-SB-18-5-018-k	1Pc	29.55	1.10	36.33	0.00
LC-SB-18-5-018-l	1Pc	30.10	1.41	36.07	0.00
LC-SB-18-5-018-m	1Pc	29.71	1.26	35.92	0.00
LC-SB-18-5-018-n	2A	29.73	1.30	35.10	0.00
LC-SB-18-5-018-o	1Pc	29.48	1.12	36.38	0.00
LC-SB-18-5-018-p	1Pc	29.90	1.13	36.89	0.00
LC-SB-18-5-018-q	1Pc	29.68	1.07	36.47	0.00
LC-SB-18-5-018-r	1Pc	29.87	1.13	37.15	0.00
LC-SB-18-5-018-s	1Pc	29.73	1.10	36.27	0.00
LC-SB-18-5-018-t	2A	29.92	1.29	35.36	0.00
LC-SB-18-5-018-u	1Pc	29.69	0.95	37.47	0.00
LC-SB-18-5-018-v	1Pc	30.17	1.33	36.48	0.00
LC-SB-18-5-015-a	1Pc	29.51	1.06	35.95	0.00
LC-SB-18-5-015-b	2A	30.01	1.41	36.07	0.00
LC-SB-18-5-015-c	1Pc	30.16	1.25	36.34	0.00
LC-SB-18-5-015-d	1Pc	29.58	0.92	36.48	0.00
LC-SB-18-5-015-e	2A	30.20	1.24	36.64	0.00
LC-SB-18-5-015-f	1Pc	29.97	1.07	36.34	0.00
LC-SB-18-5-015-g	1Pc	29.47	1.37	35.22	0.00
LC-SB-18-5-015-h	1Pc	29.75	1.42	35.23	0.00

LC-SB-18-5-015-i	1Pc	29.98	1.45	35.21	0.00
LC-SB-18-5-015-j	2A	30.13	1.10	37.30	0.00
LC-SB-18-5-015-k	2A	30.44	1.18	37.01	0.00
LC-SB-18-5-015-l	1Pc	29.83	1.10	36.39	0.00
LC-SB-18-5-015-m	1Pc	30.52	1.17	36.61	0.00
LC-SB-18-5-015-n	1Pc	30.12	1.34	36.09	0.00
LC-SB-18-5-015-o	1Pc	29.61	1.26	35.76	0.00
LC-SB-18-5-015-p	1Pc	29.89	1.35	35.54	0.00
LC-SB-18-5-015-q	1Pc	29.38	1.24	35.69	0.00
LC-SB-18-5-015-r	1Pc	29.53	1.28	35.79	0.00
LC-SB-18-5-015-s	2A	29.83	1.42	35.46	0.00
LC-SB-18-5-015-t	1Pc	29.23	1.35	35.12	0.00
LC-SB-18-5-015-u	1Pc	29.45	1.15	36.25	0.00
LC-SB-18-5-015-v	1Pc	29.54	1.15	35.53	0.00
LC-SB-18-5-015-w	1Pc	29.46	1.30	35.37	0.00
LC-SB-18-5-015-x	2A	30.30	1.49	36.69	0.00
LC-SB-18-5-015-y	1Pc	29.65	1.24	34.96	0.00
LC-SB-18-5-015-z	1Pc	29.72	1.19	36.43	0.00
LC-SB-18-5-015-aa	1Pc	30.06	1.23	36.59	0.00
LC-SB-18-5-015-ab	1Pc	29.46	1.23	35.96	0.00
LC-SB-18-5-1a	1	29.67	1.08	36.90	0.00
LC-SB-18-5-1b	1U	29.82	1.29	36.44	0.00
LC-SB-18-5-1c	1U	29.44	1.46	35.70	0.00
LC-SB-18-5-1d	1U	29.83	0.95	37.18	0.00
LC-SB-18-5-1e	1U	29.39	1.35	35.99	0.00
LC-SB-18-5-1e	1U	29.63	1.31	35.90	0.00
LC-SB-18-5-1f	1U	29.41	1.51	35.51	0.00
LC-SB-18-5-2a	1S	29.28	1.19	34.80	0.00
LC-SB-18-5-2b	1Pcc	29.67	1.04	36.57	0.00
LC-SB-18-5-2c	1U	29.33	1.19	35.87	0.00
LC-SB-18-5-2d	1U	29.43	1.20	36.06	0.00
LC-SB-18-5-2d	1Pcc	29.33	1.16	36.24	0.00
LC-SB-18-5-2e	1U	29.85	1.31	35.43	0.00
LC-SB-18-5-2f	1U	29.29	1.23	34.72	0.00
LC-SB-18-5-3a	1U	29.05	1.19	34.47	0.00
LC-SB-18-5-3b	1PC	29.48	1.40	35.73	0.00
LC-SB-18-5-3c	1U	29.34	1.20	35.94	0.00
LC-SB-18-5-3d	1U	29.40	1.22	36.08	0.00
LC-SB-18-5-3e	1Pcc	29.72	1.19	36.88	0.00
LC-SB-18-5-3f	1U	29.71	1.39	35.44	0.00
LC-SB-18-5-3g	1PC	29.35	1.33	35.46	0.00
LC-SB-18-5-4a	1	29.38	1.18	33.78	0.00
LC-SB-18-5-4b	1	29.34	1.17	36.50	0.00
LC-SB-18-5-4c	1	29.62	1.51	35.42	0.00
LC-SB-18-5-4d	1	29.71	1.18	36.34	0.00
LC-SB-18-5-4e	1	29.80	1.42	35.83	0.00
LC-SB-18-5-5a	1PC	29.27	1.35	35.68	0.00
LC-SB-18-5-5b	1U	30.00	1.27	36.56	0.00

LC-SB-18-5-5c	1U	30.07	1.22	36.67	0.00
LC-SB-18-5-5d	1U	29.35	1.20	36.53	0.00
LC-SB-18-5-5e	1O	29.39	0.99	36.55	0.00
LC-SB-18-5-5f	1O	29.16	1.03	36.01	0.00

Ferguson Canyon Granite

FC-1-b	1U	30.01	1.37	35.77	0.01
FC-1-c	1U	30.11	1.19	35.87	0.00
FC-1-d	1U	30.29	1.25	35.89	0.00
FC-1-e	1U	29.99	1.28	35.86	0.02
FC-1-f	1U	29.50	1.26	35.87	0.01
FC-1-g	1U	30.02	1.36	36.06	0.02
FC-1-h	1O	30.19	1.48	35.71	0.00
FC-1-i	1O	30.18	1.49	35.59	0.01
FC-1-j	1O	30.17	1.50	35.60	0.02
FC-1-k	1O	30.10	1.52	35.72	0.01
FC-1-l	1O	30.16	1.57	35.58	0.01
FC-1-m	1O	30.29	1.62	35.45	0.01
FC-1-n	1O	30.18	1.60	35.52	0.00
FC-1-o	1O	30.23	1.55	35.75	0.00
FC-1-p	1O	30.37	1.52	35.66	0.01
FC-1-q	1O	30.06	1.53	35.39	0.01
FC-1-r	1O	29.84	1.66	34.73	0.01
FC-1-s	1O	30.09	1.57	34.83	0.01
FC-1-t	1O	30.11	1.60	35.00	0.01
FC-1-u	1O	30.20	1.63	34.62	0.02
FC-1-v	1O	30.11	1.68	34.77	0.02
FC-1-w	1O	29.96	1.69	34.16	0.01
FC-1-x	1O	29.68	1.69	34.19	0.00
FC-1-y	1O	29.77	1.65	34.18	0.01
FC-1-z	1O	29.63	1.69	34.17	0.02
FC-1-aa	1O	29.62	1.63	34.42	0.02
FC-1-ab	1O	29.74	1.67	34.41	0.03
FC-1-ac	1O	30.01	1.54	35.77	0.01
FC-1-ad	2A	30.45	2.04	35.76	0.01
FC-1-ae	1S	29.41	1.82	33.50	0.03
FC-1-af	1S	29.32	1.45	34.32	0.01
FC-1-ag	1S	29.22	1.69	33.27	0.03
FC-1-ah	1S	29.32	1.94	32.54	0.02
oFC-3-a	1O	29.92	1.48	35.06	0.00
oFC-3-b	1O	29.95	1.39	35.61	0.01
oFC-3-c	1O	30.00	1.36	35.86	0.01
oFC-3-d	1O	30.12	1.31	35.84	0.01
oFC-3-e	1O	30.26	1.47	35.88	0.00
oFC-3-f	1O	29.98	1.43	35.43	0.00
oFC-3-g	1O	30.24	1.49	35.77	0.00
oFC-3-h	1O	30.26	1.42	35.28	0.01
oFC-3-i	1O	30.10	1.45	35.39	0.02

oFC-3-j	1O	30.14	1.48	35.76	0.00
oFC-3-k	1O	30.31	1.53	35.64	0.01
oFC-3-l	1O	30.21	1.43	35.59	0.00
oFC-3-m	1O	30.37	1.53	35.72	0.00
oFC-3-n	1O	30.25	1.54	35.18	0.00
oFC-3-o	1O	30.14	1.43	35.40	0.00
FC-4-a	1O	30.44	1.71	34.92	0.01
FC-4-b	1O	30.09	1.50	35.09	0.00
FC-4-c	1O	30.22	1.52	35.39	0.02
FC-4-d	1U	30.22	1.57	34.85	0.03
FC-4-e	1U	30.21	1.70	34.44	0.02
FC-4-f	1U	30.17	1.78	34.67	0.02
FC-4-g	1U	30.19	1.83	34.68	0.01
FC-4-h	1U	30.26	1.78	34.72	0.00
FC-4-i	1U	30.14	1.72	34.66	0.01
FC-4-j	1S	29.94	1.47	35.13	0.00
FC-4-k	1S	30.03	1.20	36.00	0.01
FC-4-l	1S	29.87	1.24	36.17	0.02
FC-4-m	1S	30.44	1.70	35.89	0.01
FC-4-n	1S	30.32	2.47	34.42	0.04
FC-4-o	1O	29.91	1.54	35.15	0.01
FC-4-p	1O	30.01	1.49	35.34	0.00
FC-4-q	1O	30.02	1.54	35.46	0.02
FC-4-r	1O	30.34	1.78	34.95	0.02
FC-2-a	1U	30.18	1.49	35.09	0.01
FC-2-b	1U	29.93	1.48	35.09	0.02
FC-2-c	1U	30.14	1.46	35.82	0.02
FC-2-d	1O	30.14	1.54	35.87	0.02
FC-2-e	1O	30.20	1.60	35.65	0.01
FC-2-f	1O	30.46	1.64	35.94	0.02
FC-2-g	1O	30.15	1.52	35.64	0.01
FC-2-h	1O	30.27	1.53	35.93	0.00
FC-2-i	1O	30.09	1.52	36.06	0.00
FC-2-j	1O	30.06	1.51	35.68	0.01
FC-2-k	1O	30.20	1.55	35.61	0.00
FC-2-l	1O	30.19	1.37	35.79	0.00
FC-2-m	1O	30.17	1.46	35.49	0.00
FC-2-n	1O	29.87	1.37	36.03	0.00
FC-2-o	1O	29.90	1.30	36.11	0.01
FC-2-p	1O	29.83	1.56	35.85	0.01
FC-2-q	1O	30.20	1.44	36.15	0.01
FC-2-r	1O	29.92	1.24	35.99	0.00
FC-2-t	1O	29.95	1.46	35.58	0.00
FC-2-u	1O	29.90	1.44	35.49	0.02
FC-2-v	1O	29.97	1.49	35.10	0.00
FC-2-x	1O	29.86	1.41	36.05	0.01
oFC-1a	1U	30.60	2.03	36.22	0.00

oFC-1b	1S	28.79	1.75	33.71	0.00
oFC-1c	1U	30.16	1.67	35.61	0.00
oFC-1d	1U	29.58	1.52	35.34	0.00
oFC-1e	2A	30.80	1.93	36.57	0.00
oFC-1f	2A	30.78	1.94	36.51	0.00
oFC-1g	1U	29.04	1.77	33.53	0.01
oFC-1h	1U	28.75	1.80	33.73	0.02
oFC-1i	1U	30.18	1.52	36.04	0.00
oFC-1j	1U	29.62	1.55	35.76	0.00
oFC-2a	1U	29.82	1.65	34.65	0.00
oFC-2b	2A	30.60	1.57	36.39	0.00
oFC-2c	1U	30.08	1.46	35.92	0.00
oFC-2d	1U	30.05	1.47	36.39	0.00
oFC-3a	1U	29.12	1.61	33.97	0.01
oFC-3b	1U	29.97	1.36	36.27	0.00
oFC-3c	1U	29.17	1.75	33.19	0.01
oFC-3d	1U	29.99	1.46	35.29	0.00
oFC-3e	1U	30.12	1.62	35.05	0.00
oFC-3f	1O	30.13	1.40	36.27	0.00
oFC-5a		30.09	1.63	35.52	0.00
oFC-5b	1	30.05	1.57	35.52	0.00
oFC-6a	1	29.18	1.85	33.36	0.01
oFC-6b	2A	30.54	1.83	36.15	0.00
oFC-6c	1	30.05	1.68	34.99	0.00
oFC-8a	1U	29.28	1.35	35.75	0.00
oFC-8b	1U	29.81	1.39	36.30	0.00
oFC-8c	1U	29.26	1.52	35.31	0.00
oFC-8d	1U	29.81	1.63	35.54	0.00
oFC-8e	1O	31.06	1.90	35.50	0.00
oFC-8f	1U	29.91	1.49	36.52	0.00
oFC-9a	2A	30.26	2.23	34.95	0.00
oFC-9b	1U	30.20	1.38	36.28	0.00
oFC-9c	1U	29.95	1.52	36.00	0.00
oFC-10a	1	29.73	1.52	35.80	0.02
oFC-10b	1	29.55	1.46	35.75	0.00
oFC-10c	1	29.70	1.46	36.07	0.00
oFC-11a	1	29.20	1.28	36.28	0.00
oFC-11b	1	29.35	1.41	35.56	0.00
oFC-012a	1	30.29	1.37	36.33	0.00
oFC-12b	1	29.89	1.32	36.58	0.00
oFC-12c	1	30.09	1.45	36.34	0.00

Oxide and F concentrations given in weight % and element values as atoms per formul unit recalculated

FeO wt%	CaO wt%	Na2O wt%	Ta2O5 wt%	MnO wt%	Nb2O5 wt%	Y2O3 wt%	La2O3 wt%	Ce2O3 wt%
2.48	27.02	0.03	0.00	0.18	0.43	0.30	0.07	0.36
2.48	26.38	0.03	0.03	0.23	0.82	0.57	0.13	0.55
2.84	25.84	0.03	0.13	0.11	1.11	1.16	0.15	0.83
2.56	26.60	0.03	0.00	0.17	0.58	0.55	0.14	0.55
2.55	26.51	0.01	0.03	0.16	0.54	0.47	0.15	0.51
2.41	27.12	0.02	0.00	0.21	0.30	0.33	0.18	0.67
2.33	27.00	0.03	0.06	0.19	0.37	0.23	0.27	0.68
2.17	27.17	0.03	0.00	0.21	0.28	0.13	0.23	0.55
2.47	26.07	0.04	0.01	0.17	0.99	0.65	0.17	0.61
2.36	26.24	0.02	0.02	0.20	0.98	0.21	0.20	0.83
2.48	26.75	0.00	0.06	0.24	0.55	0.11	0.19	0.56
2.54	27.24	0.02	0.00	0.23	0.56	0.11	0.13	0.57
2.57	26.90	0.01	0.00	0.31	0.59	0.09	0.13	0.58
2.59	26.67	0.02	0.00	0.25	0.81	0.06	0.15	0.72
1.52	27.27	0.06	0.11	0.16	1.42	0.19	0.18	0.54
2.32	26.87	0.04	0.11	0.31	1.89	0.05	0.29	0.95
2.56	27.41	0.01	0.00	0.28	0.62	0.07	0.18	0.46
2.33	26.89	0.05	0.11	0.29	2.03	0.05	0.19	0.78
2.43	27.13	0.03	0.11	0.31	1.64	0.03	0.14	0.66
2.43	26.63	0.04	0.09	0.28	1.91	0.04	0.26	0.82
2.43	25.75	0.03	0.53	0.08	2.16	1.19	0.08	0.41
2.95	25.01	0.04	0.72	0.09	2.14	1.24	0.02	0.48
2.49	25.61	0.02	0.34	0.11	1.97	1.20	0.05	0.38
1.86	27.19	0.05	0.28	0.16	1.07	0.20	0.06	0.50
2.51	27.16	0.03	0.00	0.32	0.62	0.03	0.16	0.46
2.23	25.58	0.02	0.31	0.11	1.67	0.73	0.08	0.61
2.37	25.15	0.03	0.54	0.09	2.37	1.17	0.08	0.46
1.89	26.42	0.04	0.01	0.11	2.08	0.28	0.08	0.49
1.63	27.02	0.02	0.19	0.08	1.39	0.48	0.13	0.61
1.56	26.99	0.02	0.00	0.10	0.71	0.16	0.19	0.61
1.55	26.36	0.03	0.01	0.11	0.68	0.10	0.15	0.61
2.46	26.70	0.01	0.00	0.16	0.54	0.42	0.18	0.59
2.81	25.64	0.02	0.14	0.15	0.96	1.27	0.20	0.60
2.94	25.51	0.01	0.00	0.13	0.95	1.56	0.05	0.61
2.73	26.02	0.02	0.17	0.15	0.88	1.19	0.16	0.71
2.74	25.63	0.02	0.00	0.15	0.85	1.20	0.18	0.68
2.66	26.19	0.00	0.03	0.12	0.63	0.75	0.14	0.73
2.09	27.17	0.01		0.17	0.60	0.09	0.19	0.72
2.39	26.20	0.05		0.13	2.04	0.92	0.16	0.59
2.29	26.31	0.04		0.15	2.14	0.91	0.09	0.62
1.99	27.17	0.02		0.14	1.09	0.20	0.07	0.71
1.93	27.13	0.03		0.18	1.05	0.19	0.20	0.87
2.00	26.88	0.04		0.17	1.88	0.19	0.23	0.77
2.51	27.49	0.01		0.16	1.39	0.00	0.10	0.36

2.56	27.47	0.02		0.15	1.30	0.02	0.09	0.36
2.31	27.32	0.03		0.14	1.20	0.02	0.24	0.80
2.21	27.34	0.00		0.10	0.92	0.23	0.11	0.67
2.04	26.97	0.00		0.12	0.88	0.31	0.16	0.65
2.22	27.18	0.01		0.11	0.75	0.24	0.07	0.59
2.06	27.37	0.02		0.15	0.87	0.19	0.10	0.55
2.16	27.10	0.01		0.10	0.84	0.29	0.12	0.62
2.12	27.05	0.01		0.16	0.67	0.37	0.29	0.90
1.98	25.90	0.00		0.16	0.65	0.38	0.20	0.96
2.58	25.27	0.03		0.12	1.01	1.95	0.14	0.62
2.03	26.51	0.00		0.14	0.70	0.42	0.25	1.00
1.84	27.00	0.01		0.16	0.86	0.40	0.19	0.89
2.59	25.86	0.07		0.13	1.88	1.70	0.12	0.53
2.37	26.04	0.04		0.14	1.25	1.32	0.12	0.50
2.01	27.17	0.01		0.12	0.95	0.31	0.09	0.63
2.29	26.97	0.01		0.13	0.87	0.45	0.04	0.53
2.19	27.26	0.02		0.17	0.68	0.30	0.12	0.61
2.08	27.39	0.01		0.12	0.96	0.25	0.17	0.66
2.21	27.06	0.02		0.18	0.61	0.34	0.18	0.96
2.03	26.46	0.00		0.22	0.72	0.39	0.23	1.08
2.14	27.02	0.00		0.19	0.78	0.33	0.34	0.99
2.11	27.04	0.00		0.19	0.70	0.38	0.30	1.01
1.93	26.76	0.01		0.10	0.87	0.43	0.33	1.31
2.22	26.75	0.00		0.12	0.92	0.39	0.29	1.15
2.27	26.78	0.00		0.18	0.79	0.44	0.31	1.08
2.00	26.68	0.00		0.17	0.64	0.39	0.19	1.04
1.90	26.72	0.00		0.14	0.55	0.39	0.20	0.98
1.73	27.12	0.01		0.11	0.54	0.33	0.20	0.97

2.06	26.92	0.01	0.00	0.20	1.07	0.16	0.26	0.99
1.87	26.55	0.00	0.01	0.10	0.92	0.30	0.29	1.30
1.91	26.87	0.01	0.16	0.17	0.96	0.36	0.31	1.12
1.90	27.00	0.01	0.09	0.15	0.85	0.30	0.25	0.98
1.92	27.16	0.00	0.13	0.13	0.65	0.30	0.21	1.02
1.52	26.88	0.03	0.23	0.11	0.79	0.28	0.29	0.99
2.49	26.21	0.06	0.14	0.14	2.04	0.87	0.11	0.63
2.20	27.04	0.41	0.01	0.34	0.17	0.04	0.09	0.23
3.08	25.78	0.03	0.26	0.10	2.79	1.10	0.15	0.99
2.06	27.05	0.00	0.02	0.14	0.46	0.23	0.21	0.92
1.66	28.01	0.02	0.09	0.13	0.16	0.00	0.14	0.30
1.83	27.11	0.00	0.01	0.13	0.55	0.30	0.19	0.94
1.57	26.93	0.00	0.14	0.10	0.64	0.37	0.36	1.10
1.78	27.16	0.00	0.08	0.12	0.70	0.36	0.22	0.91
2.07	24.96	0.05	0.10	0.02	0.43	0.26	0.41	1.46
2.05	26.88	0.03	0.15	0.04	0.59	0.18	0.38	1.72
1.74	28.08	0.04	0.00	0.09	0.30	0.08	0.25	0.63
2.03	26.54	0.03	0.00	0.07	0.49	0.21	0.58	1.55
1.90	27.44	0.03	0.10	0.08	0.51	0.24	0.20	0.83

1.62	27.03	0.02	0.11	0.10	0.63	0.29	0.29	1.11
1.53	27.05	0.02	0.01	0.11	0.69	0.27	0.23	0.86
1.77	27.52	0.02	0.00	0.09	0.41	0.09	0.27	1.03
1.52	28.04	0.00	0.00	0.15	0.14	0.04	0.20	0.38
1.55	27.04	0.00	0.10	0.12	0.56	0.28	0.17	0.74
1.66	27.08	0.00	0.00	0.12	0.87	0.33	0.32	1.11
1.69	26.79	0.02	0.03	0.15	1.03	0.34	0.24	1.09
1.98	27.23	0.01	0.26	0.12	0.56	0.33	0.19	0.85
1.90	27.26	0.01	0.09	0.14	0.56	0.29	0.24	0.99
1.79	27.28	0.00	0.04	0.12	0.50	0.29	0.21	0.99
1.87	27.10	0.01	0.00	0.14	0.56	0.26	0.19	0.88
2.36	27.99	0.02	0.00	0.09	0.18	0.01	0.20	0.63
2.24	27.17	0.03	0.09	0.12	0.79	0.18	0.26	0.81
2.03	27.46	0.00	0.03	0.18	0.57	0.18	0.17	0.64
2.04	28.03	0.01	0.00	0.19	0.41	0.14	0.22	0.69
2.34	27.22	0.03	0.00	0.18	0.93	0.37	0.21	0.84
2.40	26.87	0.01	0.19	0.15	0.49	0.27	0.26	0.90
2.51	26.47	0.04	0.02	0.25	2.24	0.24	0.25	1.11
2.53	26.38	0.04	0.25	0.22	2.28	0.27	0.32	1.03
2.25	27.34	0.02	0.21	0.10	1.28	0.30	0.12	0.56
2.42	26.83	0.01	0.03	0.07	1.68	0.27	0.21	0.82
2.10	27.37	0.01	0.17	0.09	1.47	0.27	0.23	0.77
2.05	26.51	0.00	0.20	0.11	1.26	0.27	0.20	0.70
2.08	27.23	0.03	0.21	0.06	1.44	0.21	0.18	0.63
2.62	26.45	0.02	0.24	0.25	2.15	0.26	0.22	1.00
2.54	26.52	0.04	0.21	0.30	1.37	0.27	0.22	0.85
2.63	26.96	0.03	0.38	0.29	0.84	0.24	0.20	0.71
2.55	26.83	0.04	0.26	0.25	1.75	0.16	0.29	0.94
2.71	26.59	0.04	0.15	0.34	2.04	0.16	0.32	0.94
2.35	26.26	0.05	0.10	0.17	2.41	0.91	0.09	0.62
2.37	25.94	0.05	0.16	0.11	2.11	0.92	0.17	0.62
2.13	27.13	0.01	0.08	0.18	0.46	0.11	0.15	0.55
2.27	27.43	0.00	0.09	0.21	0.25	0.12	0.14	0.59
2.43	27.65	0.01	0.04	0.19	0.31	0.15	0.17	0.53
2.22	26.53	0.01	0.11	0.08	1.42	0.42	0.13	0.98
2.25	26.85	0.04	0.06	0.12	1.11	0.22	0.16	0.79
2.14	27.58	0.02	0.00	0.13	0.24	0.01	0.33	0.90
2.34	27.60	0.01	0.00	0.13	0.23	0.02	0.23	0.58
1.93	27.45	0.03	0.14	0.09	0.16	0.08	0.28	0.54
2.48	27.66	0.01	0.09	0.12	0.18	0.03	0.27	0.71
2.22	27.03	0.00	0.00	0.14	0.98	0.12	0.29	0.98
2.27	27.57	0.01	0.00	0.17	0.42	0.09	0.23	0.78
2.52	26.89	0.03	0.09	0.17	1.80	0.49	0.07	0.69
2.36	27.64	0.01	0.18	0.17	0.28	0.11	0.13	0.63
2.30	27.50	0.01	0.13	0.16	0.46	0.16	0.14	0.68
2.45	26.20	0.07	0.10	0.14	2.61	0.89	0.13	0.61
2.39	27.50	0.03	0.15	0.25	1.40	0.05	0.13	0.62

1.51	28.02	0.00	0.00	0.15	0.82	0.06	0.13	0.49
2.24	27.63	0.03	0.27	0.25	1.66	0.10	0.16	0.60
1.28	28.12	0.03	0.17	0.12	0.37	0.11	0.22	0.43
1.40	27.76	0.02	0.02	0.10	0.65	0.08	0.27	0.55
2.12	27.52	0.13	0.00	0.16	1.14	0.11	0.33	0.85
1.22	28.38	0.07	0.07	0.08	0.33	0.08	0.26	0.41
2.11	27.17	0.05	0.04	0.15	0.82	0.12	0.23	0.94
1.35	27.74	0.06	0.00	0.08	0.41	0.13	0.23	0.58
1.31	27.97	0.02	0.00	0.08	0.36	0.17	0.30	0.63
2.87	27.27	0.02	0.00	0.15	0.84	0.34	0.20	0.67
2.88	27.11	0.05	0.00	0.18	0.93	0.31	0.18	0.68
2.89	26.58	0.06	0.30	0.13	3.13	0.26	0.22	0.99
3.01	26.70	0.04	0.18	0.13	1.96	0.38	0.27	0.97
1.41	27.94	0.02	0.04	0.06	0.29	0.14	0.33	0.56
1.50	27.92	0.03	0.00	0.12	0.37	0.06	0.36	0.66
1.71	28.28	0.02	0.03	0.09	0.11	0.00	0.20	0.46
1.60	27.89	0.03	0.00	0.08	0.63	0.00	0.62	0.95
1.58	27.97	0.02	0.00	0.12	0.30	0.00	0.28	0.54
1.62	28.08	0.05	0.00	0.09	0.12	0.00	0.28	0.38
1.63	27.75	0.02	0.00	0.09	0.30	0.08	0.34	0.56
2.03	27.57	0.05	0.06	0.08	0.52	0.00	0.63	1.00
2.07	27.59	0.02	0.00	0.07	0.48	0.00	0.54	1.03
2.20	28.23	0.01	0.16	0.14	0.16	0.00	0.30	0.42
1.90	27.71	0.02	0.11	0.10	0.25	0.01	0.47	0.76
2.00	27.89	0.01	0.07	0.11	0.22	0.00	0.27	0.69
1.97	28.24	0.03	0.01	0.13	0.06	0.00	0.21	0.46
2.07	28.18	0.02	0.00	0.15	0.07	0.02	0.21	0.49
2.16	27.55	0.05		0.13	0.41	0.23	0.73	1.39
2.04	27.13	0.35		0.15	0.48	0.30	0.53	1.38
1.82	26.86	0.03		0.14	0.73	0.31	0.67	2.03
1.60	27.07	0.03		0.13	0.79	0.24	0.70	1.64
1.99	26.74	0.08		0.13	0.36	0.41	0.80	2.11
2.36	27.19	0.04		0.18	0.71	0.32	0.82	1.45
1.95	26.44	0.00		0.11	0.57	0.48	0.57	2.54
1.73	26.64	0.00		0.09	0.45	0.42	0.51	2.05
1.89	26.27	0.02		0.10	0.49	0.47	0.89	2.59
1.96	26.80	0.02		0.13	0.42	0.42	0.42	1.89
2.19	27.17	0.00		0.15	0.32	0.21	0.61	1.80
1.75	26.66	0.00	0.00	0.12	0.27	0.28	0.26	1.03
2.02	26.68	0.00	0.00	0.09	0.36	0.27	0.32	1.21
1.68	26.58	0.00	0.00	0.10	0.36	0.35	0.29	1.07
1.92	26.53	0.00	0.04	0.12	0.62	0.36	0.32	1.13
1.96	26.57	0.00	0.00	0.15	0.65	0.41	0.17	1.08
2.13	26.74	0.00	0.11	0.16	0.65	0.32	0.33	0.89
2.12	26.70	0.00	0.09	0.16	0.72	0.32	0.27	1.01

2.10	26.88	0.00	0.05	0.16	0.73	0.28	0.15	0.79
2.08	26.93	0.00	0.20	0.23	0.82	0.26	0.15	0.79
2.27	26.40	0.03	0.17	0.22	2.41	0.35	0.30	0.95
2.29	26.38	0.02	0.21	0.23	2.21	0.33	0.26	1.15
2.27	26.81	0.01	0.07	0.17	0.94	0.39	0.19	0.79
2.12	26.70	0.00	0.00	0.14	0.51	0.37	0.24	0.98
1.77	26.70	0.00	0.01	0.10	0.45	0.30	0.22	0.98
1.85	26.50	0.00	0.00	0.08	0.26	0.36	0.32	1.30
1.90	26.49	0.00	0.12	0.09	0.30	0.29	0.35	1.25
1.82	26.69	0.00	0.00	0.04	0.39	0.29	0.31	1.20
1.75	27.18	0.02	0.04	0.11	0.48	0.28	0.23	0.83
1.94	27.01	0.01	0.03	0.09	0.45	0.28	0.16	0.95
1.92	26.98	0.01	0.07	0.12	0.67	0.29	0.29	0.82
1.98	27.05	0.00	0.21	0.08	0.60	0.28	0.22	1.02
1.90	27.09	0.00	0.03	0.10	0.74	0.32	0.20	0.98
1.86	26.43	0.00	0.17	0.12	0.53	0.35	0.23	0.99
1.84	26.53	0.00	0.03	0.08	0.74	0.35	0.14	1.12
1.79	26.02	0.00	0.16	0.08	1.12	0.44	0.38	1.48
2.02	26.71	0.00	0.00	0.11	0.49	0.32	0.24	0.95
1.89	26.75	0.00	0.18	0.11	0.32	0.32	0.25	0.96
1.71	26.80	0.01	0.00	0.13	0.51	0.26	0.18	0.78
1.73	26.82	0.00	0.00	0.12	0.41	0.26	0.24	0.77
1.71	26.46	0.01	0.00	0.14	0.36	0.25	0.25	0.81
1.74	26.77	0.00	0.03	0.07	0.26	0.29	0.20	0.86
1.68	26.20	0.00	0.03	0.07	0.58	0.39	0.26	1.20
1.77	25.95	0.00	0.11	0.07	0.60	0.38	0.35	1.15
1.65	25.79	0.00	0.03	0.08	0.61	0.43	0.32	1.14
1.62	25.91	0.00	0.00	0.08	0.56	0.39	0.35	0.93
1.83	26.34	0.00	0.09	0.07	0.44	0.37	0.24	1.23
1.77	26.34	0.00	0.01	0.11	0.43	0.41	0.30	1.12
1.76	26.48	0.00	0.00	0.14	0.50	0.42	0.23	1.16
1.82	26.56	0.00	0.02	0.08	0.41	0.34	0.24	1.12
1.77	26.45	0.00	0.00	0.06	0.45	0.36	0.30	1.01
1.90	26.48	0.00	0.00	0.08	0.38	0.34	0.21	1.07
1.82	26.42	0.00	0.00	0.08	0.47	0.37	0.22	1.01
1.85	26.54	0.00	0.00	0.07	0.38	0.35	0.25	1.00
1.45	26.42	0.00	0.17	0.05	0.72	0.36	0.29	1.38
1.47	26.02	0.00	0.05	0.07	0.75	0.33	0.36	1.38
1.58	25.64	0.00	0.00	0.07	0.76	0.36	0.33	1.29
1.98	26.64	0.00	0.02	0.08	0.41	0.41	0.21	1.03
2.03	26.34	0.00	0.04	0.08	0.38	0.36	0.26	1.08
2.00	26.50	0.00	0.10	0.09	0.44	0.34	0.24	1.10
1.99	26.30	0.00	0.04	0.06	0.43	0.40	0.22	1.00
1.76	25.89	0.00	0.04	0.03	0.88	0.47	0.25	1.45
1.51	26.16	0.00	0.06	0.05	0.60	0.42	0.22	1.19
1.62	26.06	0.00	0.16	0.05	0.89	0.45	0.33	1.29
1.83	26.54	0.00	0.00	0.10	0.37	0.41	0.25	1.05
1.89	26.38	0.00	0.04	0.07	0.36	0.45	0.31	1.22

1.61	26.97	0.00	0.00	0.16	0.46	0.30	0.17	0.87
1.73	26.64	0.00	0.00	0.07	0.33	0.32	0.29	1.16
1.83	27.11	0.00	0.00	0.14	0.57	0.30	0.25	0.92
1.70	26.80	0.00	0.15	0.07	0.42	0.38	0.28	1.05
1.85	26.52	0.00	0.00	0.08	0.39	0.40	0.28	1.19
1.81	26.58	0.00	0.13	0.06	0.47	0.37	0.26	1.20
1.82	26.39	0.00	0.09	0.10	0.49	0.44	0.22	1.28
1.76	26.74	0.00	0.08	0.16	0.55	0.40	0.30	1.11
1.90	26.62	0.00	0.02	0.14	0.60	0.36	0.16	1.11
2.05	26.79	0.00	0.04	0.13	0.60	0.39	0.31	1.15
1.98	26.54	0.00	0.00	0.09	0.65	0.42	0.26	1.25
1.98	26.54	0.00	0.10	0.11	0.55	0.35	0.29	1.07
1.89	26.71	0.00	0.11	0.11	0.51	0.39	0.28	1.19
1.86	26.45	0.00	0.04	0.08	0.53	0.41	0.31	1.26
1.85	26.38	0.00	0.00	0.07	0.43	0.39	0.24	1.20
1.79	25.93	0.00	0.01	0.06	0.40	0.43	0.29	1.17
1.97	27.19	0.00	0.06	0.12	0.53	0.34	0.24	1.01
1.86	27.04	0.00	0.15	0.11	0.32	0.32	0.36	1.24
1.73	26.75	0.00	0.05	0.14	0.41	0.29	0.28	0.91
1.56	25.58	0.26		0.13	0.40	0.30	0.21	0.93
1.84	26.39	0.00		0.10	0.41	0.33	0.19	0.96
1.97	26.68	0.00		0.13	0.41	0.38	0.21	1.12
1.92	26.53	0.01		0.13	0.93	0.34	0.30	1.18
1.74	26.62	0.00		0.15	1.05	0.38	0.26	1.19
1.71	26.51	0.02		0.13	1.04	0.36	0.30	1.12
1.96	26.65	0.00		0.18	0.64	0.30	0.21	0.95
1.87	26.80	0.00		0.10	0.47	0.30	0.18	0.88
1.86	26.34	0.00		0.10	0.48	0.29	0.29	1.02
1.98	26.48	0.00		0.09	0.49	0.34	0.30	0.87
1.94	26.85	0.00		0.12	0.38	0.33	0.21	1.04
1.84	26.29	0.00		0.10	1.27	0.41	0.37	1.44
1.79	26.70	0.00		0.08	0.47	0.35	0.27	0.98
1.82	26.31	0.00		0.11	0.66	0.38	0.26	1.14
1.99	26.33	0.00		0.10	0.44	0.35	0.29	1.03
2.27	26.79	0.01		0.12	0.32	0.25	0.22	0.88
2.14	26.87	0.00		0.12	0.51	0.30	0.27	1.08
1.85	26.54	0.00		0.10	0.48	0.27	0.27	1.10
3.85	26.37	0.01		0.12	0.49	0.28	0.29	0.84
1.92	27.59	0.00		0.15	0.21	0.12	0.14	0.57
1.97	26.65	0.00		0.11	0.57	0.29	0.28	1.02
1.95	26.99	0.00		0.16	0.35	0.16	0.29	0.93
1.77	26.76	0.00		0.11	0.50	0.23	0.30	1.14
1.63	26.81	0.00		0.10	0.58	0.25	0.33	1.02
2.26	27.42	0.03		0.12	0.39	0.15	0.24	0.79
1.99	27.12	0.00		0.12	0.43	0.20	0.27	0.80
2.12	26.83	0.00		0.12	0.41	0.25	0.33	0.91
2.04	26.23	0.00		0.12	0.90	0.32	0.37	1.24
1.84	26.71	0.00		0.14	0.54	0.29	0.25	0.91

1.85	27.03	0.00		0.13	0.49	0.28	0.27	0.99
2.40	27.00	0.01		0.15	0.74	0.25	0.22	1.02
2.29	27.73	0.01		0.16	0.15	0.06	0.05	0.25
1.93	26.98	0.00		0.16	0.78	0.07	0.17	0.73
1.76	27.51	0.02		0.18	0.78	0.09	0.16	0.42
1.19	27.72	0.01		0.15	0.08	0.02	0.03	0.09
1.90	26.95	0.00		0.18	0.38	0.29	0.22	0.85
1.86	26.84	0.00		0.16	0.42	0.28	0.24	0.88
1.78	27.03	0.00		0.11	0.30	0.28	0.17	0.79
1.71	27.08	0.00		0.10	0.51	0.26	0.18	0.88
1.78	27.04	0.00		0.16	0.46	0.28	0.34	0.91
1.76	27.03	0.01		0.11	0.37	0.19	0.27	0.82
1.96	26.29	0.00		0.04	0.17	0.53	0.33	1.32
1.89	26.83	0.00		0.12	0.35	0.33	0.28	0.82
2.01	26.14	0.00		0.07	0.30	0.50	0.27	1.24
1.69	27.16	0.00		0.16	0.41	0.23	0.26	0.95
1.86	26.77	0.00		0.12	0.34	0.29	0.31	1.03
1.75	26.82	0.00		0.11	0.41	0.32	0.33	1.06
1.76	27.23	0.00		0.10	0.31	0.29	0.20	0.84
1.85	26.82	0.00		0.09	0.39	0.29	0.26	1.02
2.06	27.14	0.01		0.16	0.61	0.24	0.23	0.89
1.88	27.45	0.00		0.10	0.48	0.22	0.24	0.84
1.86	27.24	0.00		0.15	0.37	0.26	0.21	0.98
1.91	27.11	0.02		0.12	0.35	0.27	0.25	1.07
1.58	26.39	0.00		0.09	0.63	0.39	0.32	1.35
1.59	26.35	0.02		0.05	0.55	0.41	0.32	1.23
1.79	26.65	0.02		0.08	0.52	0.36	0.32	1.16
1.89	27.02	0.01		0.11	0.43	0.31	0.30	0.99
1.81	27.02	0.01		0.12	0.45	0.31	0.26	1.02
1.88	26.90	0.01		0.09	0.49	0.31	0.21	0.96
2.32	27.26	0.07		0.09	0.51	0.26	0.29	0.89
2.68	27.29	0.05		0.22	0.74	0.26	0.28	0.89
2.79	26.97	0.04		0.18	0.86	0.15	0.26	0.78
1.85	27.13	0.00		0.14	0.43	0.36	0.22	1.00
1.80	27.05	0.00		0.09	0.60	0.37	0.24	0.99
1.86	26.82	0.00		0.09	0.51	0.44	0.27	1.18
1.95	26.65	0.00		0.11	0.74	0.39	0.20	1.03
1.92	27.08	0.01		0.12	0.60	0.40	0.24	1.05
1.98	26.54	0.12		0.11	0.95	0.37	0.20	1.00
2.02	26.83	0.02		0.13	0.82	0.41	0.27	1.04
2.05	26.64	0.01		0.12	0.91	0.41	0.30	1.17
1.88	26.64	0.02		0.11	0.57	0.41	0.30	1.10
1.89	26.87	0.00		0.14	0.47	0.38	0.24	1.02
2.06	26.93	0.00		0.15	0.56	0.29	0.24	1.05
2.56	26.96	0.01	0.15	0.18	1.75	0.22	0.32	0.93
2.60	27.03	0.03	0.15	0.18	1.83	0.20	0.36	0.96
2.38	27.29	0.01	0.06	0.20	1.22	0.20	0.26	0.82
2.22	27.46	0.02	0.00	0.15	0.83	0.23	0.31	0.87

2.11	27.52	0.02	0.07	0.20	0.68	0.27	0.27	0.83
1.91	27.57	0.00	0.11	0.15	0.59	0.24	0.25	0.72
2.05	27.17	0.00	0.00	0.10	0.53	0.31	0.26	0.97
1.71	26.36	0.00	0.04	0.07	0.58	0.35	0.33	1.41
1.51	26.75	0.01	0.11	0.09	0.81	0.36	0.34	1.31
2.13	25.97	0.00	0.15	0.12	0.96	0.29	0.32	1.38
1.58	27.42	0.00	0.00	0.13	0.64	0.27	0.29	0.92
1.54	27.38	0.00	0.04	0.12	0.63	0.20	0.25	0.83
2.06	27.00	0.00	0.00	0.08	0.33	0.32	0.26	1.17
2.06	27.13	0.00	0.11	0.19	0.45	0.28	0.31	1.00
2.46	27.25	0.02	0.18	0.20	1.31	0.23	0.30	1.05
2.19	25.34	0.02	0.00	0.15	0.27	0.07	0.16	0.50
2.05	27.42	0.00	0.00	0.17	0.26	0.10	0.21	0.63
1.64	28.11	0.01	0.00	0.14	0.11	0.00	0.04	0.12
2.12	27.46	0.01	0.00	0.20	0.58	0.24	0.27	0.90
1.84	27.38	0.00	0.02	0.10	0.39	0.22	0.16	0.70
1.80	26.83	0.00	0.00	0.13	0.36	0.28	0.20	0.86
1.75	26.68	0.00	0.04	0.09	0.41	0.33	0.26	1.07
1.69	27.08	0.00	0.02	0.14	0.54	0.30	0.25	0.92
1.67	26.99	0.00	0.00	0.12	0.55	0.23	0.23	1.01
1.71	26.95	0.01	0.09	0.13	0.63	0.28	0.24	0.98
1.54	26.72	0.00	0.12	0.12	0.68	0.34	0.29	1.09
1.55	27.06	0.00	0.11	0.13	0.73	0.24	0.18	0.97
1.60	27.53	0.00	0.00	0.14	0.77	0.27	0.21	0.90
1.79	27.01	0.00	0.00	0.12	0.68	0.27	0.28	0.87
1.49	26.68	0.02	0.02	0.14	0.60	0.25	0.32	1.05
1.80	26.37	0.01	0.03	0.13	1.35	0.27	0.32	1.35
1.97	26.25	0.00	0.13	0.13	1.35	0.27	0.34	1.30
2.11	26.91	0.00	0.05	0.14	0.47	0.31	0.21	0.82
1.84	27.21	0.00	0.00	0.15	0.53	0.23	0.24	0.86
1.68	27.41	0.00	0.03	0.18	0.62	0.27	0.20	0.80
1.87	27.11	0.01	0.00	0.21	0.68	0.18	0.31	0.91
1.80	27.07	0.01	0.00	0.17	0.60	0.16	0.22	0.86
1.37	27.51	0.00	0.01	0.16	0.57	0.21	0.26	0.68
1.52	27.78	0.00	0.00	0.18	0.40	0.14	0.15	0.61
1.31	27.49	0.01	0.00	0.20	0.41	0.18	0.15	0.65
1.46	27.05	0.00	0.00	0.18	0.78	0.29	0.24	0.92
1.47	27.20	0.02	0.03	0.15	0.77	0.25	0.25	0.95
1.46	27.17	0.00	0.00	0.11	0.75	0.30	0.24	0.99
1.52	27.01	0.01	0.04	0.12	0.78	0.25	0.30	0.82
1.74	27.47	0.00	0.04	0.11	0.45	0.28	0.22	0.95
1.69	27.09	0.00	0.04	0.09	0.40	0.29	0.31	1.16
1.65	26.79	0.00	0.14	0.12	0.34	0.25	0.26	0.85
1.98	27.17	0.01	0.06	0.15	0.56	0.25	0.29	1.00
1.94	27.22	0.01	0.01	0.13	0.59	0.29	0.12	0.90
1.93	27.54	0.02	0.02	0.13	0.59	0.29	0.16	0.76
1.70	27.22	0.00	0.11	0.12	0.58	0.27	0.20	0.78
1.75	27.43	0.00	0.00	0.12	0.55	0.33	0.14	0.82

1.83	27.52	0.00	0.07	0.11	0.61	0.31	0.22	0.82
1.79	27.26	0.00	0.04	0.13	0.50	0.28	0.22	1.01
1.87	27.32	0.00	0.00	0.10	0.60	0.29	0.18	0.83
1.95	27.24	0.00	0.02	0.13	0.64	0.30	0.26	0.83
1.56	26.85	0.00	0.05	0.12	0.92	0.38	0.28	1.08
1.79	27.08	0.00	0.13	0.10	0.71	0.35	0.18	0.98
1.87	26.98	0.00	0.00	0.10	0.45	0.38	0.28	1.09
1.90	27.19	0.00	0.00	0.10	0.43	0.34	0.17	0.98
1.70	26.77	0.03	0.00	0.13	0.77	0.31	0.27	0.94
1.74	26.71	0.05	0.17	0.15	0.73	0.35	0.23	1.03
1.78	27.11	0.00	0.00	0.14	0.60	0.29	0.25	0.87
1.86	26.95	0.00	0.01	0.14	0.55	0.26	0.22	0.90
1.79	26.95	0.01	0.14	0.13	0.71	0.36	0.33	1.26
1.75	26.93	0.00	0.00	0.11	0.76	0.34	0.23	1.20
1.52	26.99	0.00	0.17	0.13	0.79	0.25	0.33	1.19
1.45	27.06	0.00	0.01	0.12	0.69	0.29	0.19	1.18
1.58	26.55	0.00	0.00	0.10	0.83	0.32	0.41	1.55
1.53	26.42	0.00	0.00	0.07	0.63	0.30	0.45	1.55
1.58	26.79	0.00	0.04	0.07	0.93	0.26	0.37	1.49
1.63	26.79	0.00	0.09	0.09	0.88	0.28	0.47	1.62
2.00	27.10	0.01	0.00	0.14	0.49	0.23	0.24	1.10
1.96	26.79	0.01	0.01	0.09	0.41	0.22	0.26	0.98
1.87	26.89	0.01	0.03	0.15	0.53	0.33	0.24	1.10
1.70	26.81	0.00	0.08	0.08	0.50	0.40	0.20	1.01
1.84	26.42	0.00	0.11	0.08	0.52	0.44	0.28	1.33
1.74	26.10	0.00	0.25	0.00	0.65	0.55	0.34	1.56
1.87	25.68	0.00	0.07	0.09	0.96	0.52	0.51	1.72
1.33	27.98	0.01	0.00	0.10	0.21	0.07	0.14	0.64
1.76	26.77	0.02	0.02	0.06	0.83	0.66	0.12	0.72
1.82	28.03	0.02	0.00	0.12	0.03	0.06	0.07	0.31
1.75	26.53	0.00	0.05	0.07	0.54	0.51	0.30	1.33
1.80	27.82	0.00	0.06	0.08	0.41	0.13	0.20	0.56
1.66	28.01	0.00	0.00	0.12	0.30	0.11	0.12	0.48
1.44	27.26	0.02	0.02	0.09	0.96	0.53	0.02	0.55
1.75	26.75	0.01	0.17	0.08	0.75	0.80	0.11	0.71
1.91	27.74	0.01	0.00	0.10	0.06	0.06	0.02	0.20
1.75	26.49	0.00	0.00	0.07	0.48	0.39	0.25	1.23
1.34	27.48	0.03	0.00	0.12	0.30	0.14	0.13	0.68
1.59	28.18	0.02	0.08	0.13	0.10	0.00	0.00	0.14
1.72	27.56	0.00	0.00	0.14	0.25	0.14	0.27	0.65
1.80	26.25	0.02	0.15	0.04	0.73	0.95	0.12	0.59
1.32	27.35	0.00	0.00	0.06	0.71	0.24	0.04	0.47
2.04	25.92	0.00	0.00	0.04	0.40	0.50	0.25	1.37
1.83	26.44	0.00	0.00	0.15	0.57	0.43	0.26	0.93
1.82	25.98	0.00	0.04	0.06	0.55	0.60	0.33	1.40
1.80	26.30	0.00	0.17	0.08	0.58	0.52	0.28	1.31
2.00	25.74	0.00	0.06	0.13	1.01	0.58	0.43	1.69
1.96	26.36	0.00	0.13	0.11	0.55	0.45	0.32	1.16

1.73	26.75	0.00	0.00	0.06	0.32	0.44	0.24	1.12
1.88	27.02	0.01	0.03	0.17	0.45	0.21	0.24	0.74
2.27	26.88	0.00	0.04	0.19	1.11	0.27	0.24	0.89
2.05	27.03	0.00	0.00	0.13	0.60	0.35	0.17	0.91
2.05	26.65	0.00	0.03	0.16	0.64	0.37	0.23	0.98
2.10	26.36	0.00	0.00	0.13	1.06	0.39	0.25	1.28
2.10	26.24	0.00	0.08	0.15	1.52	0.45	0.31	1.14
2.11	26.35	0.00	0.02	0.15	1.11	0.45	0.28	1.17
2.20	26.99	0.00	0.09	0.21	0.74	0.36	0.17	0.92
2.07	26.20	0.00	0.14	0.21	0.96	0.46	0.23	1.33
2.18	26.69	0.00	0.08	0.16	0.86	0.36	0.27	0.90
2.07	26.58	0.00	0.04	0.17	0.74	0.35	0.23	0.93
1.96	26.77	0.00	0.06	0.14	0.69	0.40	0.21	1.11
1.92	26.61	0.01	0.08	0.13	0.85	0.20	0.26	1.23
2.10	26.36	0.01	0.00	0.09	0.94	0.31	0.20	1.22
2.05	26.79	0.00	0.00	0.11	0.31	0.14	0.37	1.26
1.94	27.58	0.00	0.00	0.16	0.37	0.05	0.19	0.43
2.04	27.40	0.00	0.00	0.13	0.26	0.09	0.19	0.50
1.92	27.50	0.01	0.19	0.16	0.54	0.19	0.27	0.72
1.99	27.40	0.00	0.00	0.17	0.76	0.20	0.22	0.80
2.33	27.43	0.01	0.03	0.18	1.99	0.10	0.21	0.71
2.33	27.16	0.00	0.08	0.14	1.42	0.30	0.23	0.99
2.14	26.92	0.01	0.15	0.20	3.10	0.24	0.21	0.98
1.80	27.14	0.00	0.04	0.12	1.39	0.13	0.34	1.06
2.21	26.32	0.03	0.16	0.08	2.15	0.28	0.20	1.22
1.99	26.94	0.02	0.00	0.12	0.50	0.10	0.37	1.18
1.65	27.86	0.02	0.00	0.10	0.35	0.04	0.21	0.68
2.25	26.74	0.02	0.08	0.08	1.39	0.38	0.27	1.18
1.74	27.30	0.00	0.00	0.09	0.21	0.10	0.11	0.37
1.53	27.54	0.01	0.04	0.14	0.29	0.15	0.16	0.42
0.97	27.88	0.01	0.00	0.07	0.20	0.06	0.07	0.10
1.26	27.65	0.02	0.00	0.10	0.42	0.11	0.10	0.45
1.28	27.37	0.04	0.00	0.12	0.05	0.02	0.31	0.46
2.11	26.44	0.03	0.18	0.18	1.01	0.45	0.22	1.02
1.72	27.09	0.03	0.13	0.07	1.08	0.16	0.21	0.74
1.84	26.92	0.04	0.00	0.11	1.37	0.17	0.20	1.05
2.02	26.50	0.08	0.17	0.09	2.19	0.16	0.29	1.25
0.91	27.69	0.05	0.00	0.09	0.25	0.16	0.19	0.38
0.90	27.02	0.03	0.00	0.10	0.45	0.24	0.11	0.64
1.54	27.15	0.02	0.07	0.11	0.36	0.10	0.29	0.68
1.60	26.95	0.01	0.00	0.09	0.41	0.17	0.16	0.69
1.91	27.41	0.01	0.07	0.08	0.22	0.21	0.18	0.67
1.92	26.41	0.00	0.08	0.13	0.51	0.36	0.21	0.96
2.14	26.48	0.00	0.13	0.14	0.58	0.38	0.26	0.92
2.31	26.83	0.01	0.19	0.25	1.27	0.38	0.21	0.82
2.39	26.11	0.02	0.00	0.22	2.23	0.57	0.32	1.28

2.25	27.91	0.00	0.07	0.17	0.35	0.08	0.18	0.64
2.20	27.46	0.00	0.06	0.19	0.71	0.12	0.27	0.74
2.07	27.41	0.00	0.00	0.20	0.75	0.13	0.32	0.71
1.86	28.05	0.01	0.00	0.16	0.38	0.08	0.05	0.27
2.20	27.63	0.01	0.00	0.16	0.62	0.18	0.22	0.75
1.95	27.47	0.00	0.00	0.18	0.50	0.18	0.18	0.83
1.98	27.22	0.02	0.02	0.22	1.92	0.26	0.16	0.95
1.95	27.17	0.00	0.01	0.17	0.61	0.31	0.25	1.00
2.12	27.76	0.00	0.13	0.16	0.46	0.15	0.20	0.67
2.02	28.29	0.01	0.02	0.20	0.28	0.02	0.09	0.25
1.99	28.10	0.01	0.00	0.19	0.14	0.02	0.05	0.29
2.04	27.93	0.02	0.00	0.10	0.55	0.07	0.14	0.60
1.91	27.82	0.02	0.05	0.13	0.42	0.08	0.24	0.68
2.21	27.97	0.00	0.00	0.14	0.29	0.03	0.20	0.58
1.97	27.25	0.04	0.03	0.11	1.30	0.00	0.40	0.91
1.73	27.74	0.02	0.09	0.11	0.80	0.01	0.36	0.80
1.92	28.04	0.02	0.18	0.12	0.31	0.00	0.20	0.51
2.08	27.76	0.02	0.02	0.10	0.31	0.02	0.21	0.54
2.11	27.40	0.02	0.08	0.14	0.18	0.04	0.20	0.69
3.73	25.27	0.04	0.00	0.12	0.41	0.04	0.36	0.79
1.65	27.29	0.03	0.00	0.11	0.26	0.07	0.39	1.06
2.02	27.31	0.01	0.02	0.15	0.42	0.22	0.29	1.06
2.05	27.55	0.01	0.05	0.12	0.62	0.02	0.18	0.69
2.07	27.41	0.04	0.00	0.13	1.40	0.05	0.28	0.95
1.80	28.07	0.02	0.00	0.10	0.31	0.02	0.19	0.59
2.01	27.00	0.00	0.02	0.08	0.38	0.36	0.19	1.03
2.84	26.98	0.11		0.19	3.84	0.81	0.06	0.49
3.14	28.08	0.01		0.18	1.43	0.01	0.13	0.67
2.31	28.16	0.03		0.19	0.88	0.27	0.16	0.34
2.00	28.58	0.00		0.13	0.20	0.06	0.09	0.61
2.19	28.61	0.00		0.16	0.22	0.12	0.20	0.73
2.13	28.46	0.01		0.16	0.24	0.13	0.30	0.52
3.02	26.50	0.04		0.20	2.09	1.38	0.19	0.34
2.34	28.15	0.01		0.24	0.56	0.08	0.36	0.82
2.07	26.95	0.00		0.16	0.44	0.41	0.39	1.01
2.19	27.77	0.00		0.14	0.28	0.35	0.34	0.82
2.88	26.81	0.04		0.19	2.02	1.31	0.10	0.37
2.40	28.30	0.02		0.24	0.44	0.07	0.04	0.71
1.95	28.00	0.01		0.13	0.04	0.13	0.22	0.65
2.18	27.47	0.01		0.23	0.11	0.92	0.10	0.76
2.21	26.96	0.02		0.20	0.32	0.58	0.20	0.93
1.95	26.61	0.00		0.20	0.43	0.56	0.28	1.04
1.93	27.37	0.00		0.18	0.28	0.47	0.18	0.70
2.35	27.36	0.00		0.18	0.25	0.69	0.00	0.74
2.00	28.13	0.01		0.14	0.03	0.18	0.27	0.72
1.94	28.10	0.01		0.16	0.09	0.43	0.25	0.42

2.09	27.86	0.01	0.18	0.05	0.66	0.26	0.71
2.49	27.08	0.05	0.19	0.78	2.07	0.09	0.44
2.91	27.25	0.03	0.20	0.94	2.11	0.09	0.42
1.73	26.79	0.00	0.17	0.42	0.74	0.45	1.34
2.05	28.32	0.02	0.14	0.01	0.12	0.31	0.50
2.01	27.03	0.00	0.16	0.38	0.50	0.33	1.20
2.85	26.62	0.10	0.19	1.00	3.59	0.00	0.54
2.61	27.49	0.03	0.20	0.36	1.36	0.00	0.64
2.36	28.28	0.00	0.15	0.00	0.16	0.34	0.68
2.56	27.10	0.08	0.21	0.29	2.71	0.04	0.65
3.01	26.36	0.06	0.19	1.35	1.89	0.11	0.53
3.13	26.31	0.12	0.21	1.09	3.64	0.07	0.61
3.12	26.65	0.05	0.19	1.08	2.18	0.11	0.45
2.65	27.49	0.02	0.29	0.17	0.75	0.30	0.82
2.96	27.09	0.10	0.37	2.00	0.24	0.34	1.14
2.17	28.14	0.07	0.20	0.69	0.09	0.21	0.53
2.73	27.39	0.07	0.33	1.43	0.27	0.16	0.68
1.78	28.62	0.11	0.15	0.23	0.00	0.27	0.50
2.78	27.97	0.06	0.42	0.64	0.11	0.14	0.60
2.22	27.81	0.00	0.20	0.58	0.28	0.18	0.67
2.62	28.60	0.01	0.15	0.25	0.05	0.10	0.77
2.17	27.84	0.00	0.18	0.46	0.23	0.24	0.72
2.21	28.68	0.02	0.14	0.21	0.00	0.38	0.56
2.55	28.42	0.01	0.18	0.29	0.02	0.39	0.78
2.50	28.49	0.01	0.21	0.07	0.06	0.20	0.49
2.26	27.96	0.00	0.20	0.51	0.04	0.29	0.79
2.38	27.51	0.00	0.21	0.65	0.33	0.09	0.84
1.92	27.89	0.02	0.21	0.74	0.10	0.35	0.84
2.40	26.91	0.00	0.15	0.48	0.41	0.21	1.09
2.65	27.43	0.00	0.21	0.84	0.26	0.31	0.79
2.47	28.91	0.02	0.16	0.02	0.04	0.00	0.14
2.31	27.94	0.01	0.17	0.42	0.26	0.18	0.59
2.36	27.25	0.00	0.22	0.52	0.38	0.29	0.98
2.42	27.69	0.00	0.21	0.72	0.30	0.32	0.67
2.98	26.76	0.00	0.19	1.25	0.28	0.24	1.05
2.02	26.42	0.00	0.17	0.83	0.38	0.50	1.58
2.25	27.35	0.00	0.17	0.51	0.35	0.04	1.02
2.05	28.33	0.01	0.14	0.05	0.04	0.04	0.36
2.42	26.94	0.00	0.12	0.43	0.43	0.34	0.99
2.10	28.51	0.00	0.14	0.02	0.02	0.20	0.17
1.83	27.97	0.01	0.14	0.05	0.05	0.26	0.44
2.17	27.88	0.01	0.23	0.36	0.12	0.21	0.60
2.22	27.44	0.00	0.22	0.66	0.26	0.15	0.85
2.28	26.90	0.00	0.16	0.78	0.37	0.37	1.31
2.40	27.54	0.00	0.21	0.73	0.25	0.24	0.89

2.51	28.25	0.02	0.16	0.28	0.00	0.15	0.63
2.24	28.35	0.04	0.15	0.16	0.00	0.46	0.70
2.91	26.81	0.00	0.23	1.78	0.37	0.37	1.01
2.13	28.39	0.03	0.14	0.27	0.02	0.08	0.30
2.93	28.52	0.02	0.13	0.04	0.00	0.18	0.06
2.15	28.64	0.01	0.16	0.09	0.04	0.07	0.31
2.47	27.51	0.00	0.21	0.72	0.35	0.27	1.08
2.39	27.12	0.00	0.20	0.76	0.33	0.07	1.46
2.54	28.92	0.00	0.26	0.00	0.03	0.00	0.00
3.59	28.46	0.00	0.18	0.14	0.11	0.00	0.19
3.13	27.56	0.03	0.26	0.64	0.45	0.29	0.74
3.32	26.98	0.01	0.19	1.46	0.38	0.26	1.44
2.84	28.00	0.00	0.23	1.07	0.28	0.39	0.99
2.73	26.81	0.04	0.28	2.43	0.53	0.39	1.29
2.20	26.96	0.04	0.26	1.83	0.37	0.51	1.58
1.97	27.56	0.03	0.22	0.71	0.33	0.17	0.94
2.09	28.51	0.01	0.19	0.21	0.09	0.19	0.58
2.22	28.63	0.01	0.10	0.22	0.11	0.56	0.54
3.15	28.41	0.01	0.16	0.22	0.01	0.22	0.31
1.82	27.56	0.01	0.29	1.45	0.29	0.02	0.86
2.47	27.97	0.01	0.26	0.72	0.37	0.37	0.88
2.27	27.48	0.00	0.23	0.68	0.31	0.63	1.34
2.19	28.12	0.04	0.29	1.83	0.04	0.20	0.23
1.75	27.27	0.00	0.18	1.05	0.39	0.17	1.39
2.00	28.94	0.00	0.16	0.25	0.06	0.17	0.42
1.67	29.49	0.00	0.18	0.04	0.00	0.20	0.00
2.31	28.60	0.02	0.19	0.33	0.06	0.60	0.28
2.21	28.35	0.00	0.22	0.30	0.04	0.07	0.55
2.45	28.46	0.00	0.21	0.10	0.03	0.17	0.81
2.56	28.34	0.01	0.21	0.11	0.02	0.30	0.47
2.26	28.74	0.00	0.23	0.03	0.02	0.37	0.51
2.22	28.15	0.00	0.19	0.28	0.04	0.57	1.10
2.81	28.69	0.01	0.21	0.07	0.02	0.54	0.59
2.42	28.68	0.02	0.23	0.15	0.00	0.52	0.48
2.43	26.60	0.00	0.22	1.85	0.34	0.42	1.25
2.26	28.48	0.01	0.17	0.02	0.03	0.04	0.23
2.43	28.41	0.01	0.17	0.07	0.06	0.13	0.05
2.65	27.16	0.00	0.20	0.66	0.33	0.21	0.93
2.00	28.36	0.01	0.17	0.01	0.01	0.03	0.00
2.17	27.41	0.00	0.23	0.67	0.34	0.13	0.95
1.72	29.12	0.03	0.21	0.00	0.00	0.00	0.13
1.84	28.91	0.00	0.16	0.00	0.00	0.15	0.04
2.16	27.99	0.00	0.13	0.53	0.22	0.13	0.39
1.95	26.75	0.00	0.19	0.45	0.33	0.22	0.93
1.93	27.07	0.00	0.19	0.60	0.38	0.23	0.98
1.75	26.48	0.00	0.14	0.65	0.41	0.30	1.40

1.08	28.12	0.06	0.02	0.00	0.15	0.27
2.12	27.33	0.02	0.12	0.27	0.22	0.58
1.98	26.97	0.02	0.10	0.41	0.20	0.67
1.72	26.68	0.01	0.12	0.53	0.03	0.83
1.73	26.43	0.03	0.12	0.57	0.15	1.02
1.98	26.89	0.03	0.11	0.45	0.21	0.78
2.02	27.86	0.02	0.11	0.14	0.02	0.62
1.87	27.49	0.07	0.14	0.14	0.15	0.72
1.44	27.26	0.03	0.11	0.12	0.08	0.79
0.87	28.84	0.07	0.00	0.01	0.00	0.00
1.93	27.12	0.02	0.11	0.43	0.18	0.99
1.83	26.67	0.02	0.13	0.51	0.19	0.79
1.85	27.14	0.01	0.12	0.41	0.04	0.59
1.64	26.83	0.01	0.12	0.42	0.11	0.65
2.22	27.31	0.02	0.14	0.39	0.13	0.69
1.55	28.22	0.06	0.02	0.00	0.07	0.15
2.80	26.70	0.11	0.07	0.20	0.49	1.33
1.39	27.66	0.04	0.13	0.13	0.24	0.84
2.69	26.99	0.18	0.12	0.20	0.24	0.99
1.25	28.17	0.07	0.02	0.03	0.23	0.67
1.23	28.42	0.04	0.02	0.00	0.10	0.57
1.52	28.22	0.03	0.06	0.04	0.35	0.92
1.35	27.96	0.04	0.10	0.03	0.29	0.95
1.49	27.96	0.05	0.12	0.07	0.44	0.71
1.74	28.10	0.05	0.05	0.00	0.33	0.86
1.38	27.96	0.05	0.12	0.09	0.36	0.89
1.64	28.27	0.02	0.13	0.08	0.13	0.69
1.56	28.30	0.04	0.15	0.03	0.11	0.54
1.54	27.95	0.03	0.13	0.06	0.16	0.71
1.63	27.73	0.06	0.13	0.06	0.20	0.89
0.88	28.01	0.31	0.14	0.00	0.14	0.29
1.83	28.28	0.03	0.13	0.08	0.25	0.59
1.66	28.56	0.03	0.12	0.05	0.19	0.71
1.50	28.08	0.03	0.12	0.11	0.16	0.84
1.68	27.83	0.02	0.11	0.05	0.50	0.76
1.39	28.12	0.05	0.05	0.06	0.39	1.09
1.33	28.06	0.04	0.07	0.04	0.26	1.09
1.47	28.36	0.05	0.03	0.01	0.27	0.42
1.41	28.46	0.04	0.03	0.00	0.06	0.46
1.59	28.28	0.06	0.07	0.01	0.27	0.67
1.98	28.12	0.04	0.10	0.03	0.44	1.06
1.60	28.13	0.03	0.12	0.09	0.36	0.77
1.65	28.04	0.03	0.13	0.05	0.32	1.01
1.69	28.37	0.05	0.13	0.04	0.30	0.77
1.47	27.58	0.02	0.11	0.03	0.21	0.91
1.95	27.95	0.02	0.12	0.22	0.19	0.62
2.33	27.11	0.01	0.16	0.35	0.31	0.99

1.53	28.00	0.02	0.10	0.20	0.31	0.76
1.18	28.48	0.06	0.03	0.00	0.17	0.45
1.42	28.45	0.04	0.07	0.05	0.23	0.58
1.56	28.42	0.02	0.12	0.09	0.06	0.57
2.34	27.45	0.14	0.12	0.20	0.17	1.09
3.04	27.00	0.07	0.06	0.19	0.34	1.32
1.74	28.42	0.10	0.06	0.07	0.21	0.56
1.19	28.86	0.05	0.02	0.00	0.12	0.46
1.66	28.35	0.04	0.13	0.06	0.33	0.86
1.37	28.40	0.04	0.12	0.07	0.19	0.74
1.44	28.09	0.04	0.12	0.09	0.18	0.68
1.57	28.39	0.03	0.11	0.11	0.26	0.93
1.53	28.41	0.02	0.12	0.09	0.19	0.77
1.57	28.53	0.03	0.13	0.07	0.17	0.75
1.60	28.60	0.04	0.13	0.06	0.21	0.90
1.74	28.38	0.03	0.13	0.04	0.29	0.94
1.93	28.29	0.05	0.12	0.15	0.17	0.77
1.70	28.45	0.02	0.13	0.11	0.27	0.76
1.71	28.43	0.02	0.13	0.16	0.34	0.61
1.81	28.61	0.04	0.13	0.16	0.16	0.73
2.23	28.70	0.02	0.11	0.12	0.17	0.63
1.83	28.96	0.04	0.11	0.05	0.22	0.75
1.31	29.39	0.02	0.09	0.09	0.11	0.55
1.64	28.52	0.03	0.12	0.13	0.20	0.89
2.04	28.37	0.02	0.12	0.16	0.38	1.02
1.72	27.82	0.03	0.14	0.50	0.09	0.89
2.08	28.32	0.02	0.12	0.37	0.16	0.63
2.19	28.46	0.02	0.13	0.32	0.14	0.73
1.59	28.57	0.04	0.05	0.02	0.35	0.94
1.30	28.48	0.04	0.10	0.00	0.40	0.82
1.73	28.49	0.03	0.11	0.04	0.39	0.94
1.56	28.55	0.04	0.13	0.07	0.35	1.01
1.68	28.58	0.03	0.11	0.04	0.32	0.96
1.32	28.68	0.05	0.12	0.05	0.27	0.90
1.38	28.81	0.03	0.13	0.05	0.18	0.95
1.92	28.47	0.02	0.13	0.27	0.28	0.78
1.71	28.61	0.06	0.15	0.04	0.22	0.61
1.88	28.85	0.03	0.14	0.08	0.22	0.48
1.45	28.87	0.03	0.12	0.06	0.19	0.60
1.53	29.07	0.04	0.14	0.11	0.15	0.55
1.03	28.66	0.34	0.10	0.07	0.16	0.49
1.45	28.77	0.10	0.12	0.10	0.18	0.72
1.21	28.81	0.05	0.13	0.10	0.37	0.86
1.67	28.11	0.10	0.06	0.02	0.09	0.33
1.41	27.76	0.06	0.13	0.08	0.13	0.55
2.21	27.79	0.21	0.09	0.14	0.21	0.67
3.47	27.43	0.01	0.07	0.07	0.05	0.29
1.27	28.41	0.04	0.02	0.01	0.19	0.50

1.66	28.23	0.04	0.06	0.05	0.31	0.87
1.53	27.86	0.03	0.10	0.04	0.41	1.08
1.34	28.00	0.04	0.12	0.10	0.31	0.87
1.32	28.16	0.04	0.13	0.05	0.25	0.93
1.29	28.09	0.03	0.13	0.06	0.27	0.98
1.41	28.12	0.02	0.13	0.14	0.32	0.83
1.54	28.44	0.03	0.12	0.07	0.14	0.72
1.58	28.02	0.04	0.14	0.12	0.18	0.89
1.86	28.37	0.02	0.13	0.10	0.11	0.69
1.34	29.23	0.06	0.03	0.01	0.13	0.27
1.27	29.11	0.06	0.02	0.00	0.00	0.18
4.10	28.08	0.01	0.07	0.26	0.16	0.57
3.06	27.26	0.26	0.16	0.22	0.12	0.43
3.39	27.17	0.07	0.10	0.18	0.23	1.27
1.21	29.05	0.06	0.01	0.00	0.08	0.14
1.35	28.86	0.04	0.02	0.00	0.18	0.39
1.23	28.52	0.05	0.09	0.00	0.31	0.78
1.31	28.10	0.04	0.12	0.07	0.27	0.92
1.26	28.23	0.04	0.13	0.08	0.13	0.82
1.05	29.17	0.05	0.01	0.00	0.01	0.08
3.00	27.58	0.07	0.07	0.19	0.44	1.27
2.75	27.73	0.21	0.14	0.22	0.17	0.77
1.25	28.37	0.04	0.11	0.08	0.18	0.64
1.36	28.23	0.03	0.14	0.11	0.12	0.76
1.28	28.30	0.03	0.13	0.09	0.28	0.67
1.52	27.79	0.04	0.14	0.12	0.37	0.90
1.83	28.62	0.03	0.11	0.11	0.05	0.52
1.12	28.59	0.38	0.16	0.02	0.07	0.17
1.50	28.55	0.03	0.12	0.05	0.16	0.69
5.50	27.68	0.03	0.08	0.20	0.30	0.98
3.22	27.93	0.21	0.13	0.14	0.30	0.78
1.77	28.46	0.03	0.13	0.11	0.07	0.73
1.65	28.90	0.02	0.14	0.01	0.20	0.47
1.41	28.23	0.02	0.11	0.07	0.27	1.11
1.62	28.67	0.02	0.13	0.05	0.16	0.67
1.56	28.72	0.02	0.13	0.05	0.10	0.76
1.64	28.85	0.02	0.12	0.11	0.21	0.76
1.65	28.52	0.02	0.12	0.07	0.01	0.62
2.59	27.84	0.19	0.13	0.19	0.14	0.63
2.93	28.31	0.11	0.05	0.08	0.36	0.84
1.36	29.40	0.08	0.02	0.00	0.05	0.31
1.64	29.42	0.03	0.13	0.00	0.08	0.32
0.36	29.30	0.22	0.15	0.00	0.00	0.07
2.92	27.95	0.25	0.14	0.21	0.28	0.91
2.12	28.55	0.01	0.11	0.09	0.08	0.64
2.37	28.55	0.03	0.14	0.19	0.07	0.45
2.01	28.40	0.00	0.12	0.31	0.03	0.71
1.97	27.61	0.03	0.13	0.44	0.18	1.00

1.76	28.07	0.03	0.13	0.08	0.39	1.10
1.74	28.67	0.00	0.12	0.05	0.17	0.55
1.72	28.37	0.03	0.12	0.13	0.22	0.76
1.55	28.48	0.02	0.14	0.11	0.16	0.74
1.68	28.54	0.04	0.12	0.14	0.38	0.68
3.01	27.92	0.11	0.11	0.13	0.22	0.82
1.58	27.70	0.02	0.15	0.43	0.09	0.62
1.81	27.87	0.03	0.13	0.35	0.26	0.76
2.69	27.62	0.12	0.02	0.00	0.18	0.61
3.20	27.34	0.14	0.05	0.07	0.35	0.80
2.45	28.16	0.09	0.02	0.00	0.10	0.57
3.12	27.66	0.10	0.02	0.00	0.15	0.47
1.12	28.45	0.05	0.10	0.01	0.13	0.64
2.01	28.24	0.03	0.13	0.03	0.14	0.70
2.09	28.26	0.01	0.13	0.08	0.12	0.75
1.60	27.77	0.05	0.11	0.16	0.20	0.98
1.75	27.22	0.02	0.12	0.47	0.24	0.99
1.98	27.80	0.02	0.13	0.28	0.13	0.90
1.53	27.48	0.01	0.11	0.42	0.12	0.62
1.35	27.74	0.04	0.17	0.27	0.08	0.74
1.36	28.51	0.03	0.09	0.09	0.01	0.40
1.66	28.77	0.01	0.08	0.02	0.05	0.25
2.83	27.52	0.03	0.20	0.29	0.29	0.93
1.01	29.14	0.07	0.02	0.00	0.10	0.42
1.01	28.91	0.04	0.01	0.00	0.01	0.22
1.27	29.27	0.04	0.02	0.00	0.00	0.04
1.77	27.98	0.01	0.13	0.40	0.18	0.73
1.27	28.28	0.04	0.08	0.05	0.09	0.56
1.69	28.93	0.01	0.10	0.01	0.05	0.42
2.36	27.48	0.00	0.21	0.34	0.18	0.81
1.41	28.07	0.04	0.13	0.06	0.22	1.04
2.10	28.03	0.01	0.12	0.28	0.18	0.72
1.59	28.97	0.03	0.02	0.00	0.01	0.26
1.12	29.30	0.07	0.02	0.00	0.05	0.16
2.63	27.43	0.00	0.24	0.31	0.11	1.07
2.57	27.92	0.00	0.22	0.30	0.03	0.59
2.25	27.83	0.01	0.22	0.33	0.27	0.69
1.95	27.21	0.02	0.12	0.40	0.20	0.74
1.81	27.35	0.04	0.13	0.42	0.36	0.92
1.89	27.73	0.02	0.13	0.30	0.18	0.88
1.57	28.13	0.04	0.11	0.06	0.45	0.91
2.81	27.14	0.22	0.11	0.23	0.18	1.07
1.23	28.97	0.04	0.02	0.00	0.20	0.15
2.10	28.30	0.01	0.11	0.13	0.17	0.64
1.59	28.28	0.00	0.13	0.09	0.11	0.56
1.89	28.26	0.00	0.12	0.08	0.24	0.74
1.80	28.59	0.03	0.07	0.00	0.07	0.41
3.400	28.764	0.004	0.03	0.48	0.00	0.13

3.525	28.832	0.016		0.05		0.36	0.00	0.05
3.408	28.783	0.001		0.07		0.27	0.09	0.00
3.818	28.970	0.003		0.07		0.14	0.01	0.06
3.638	28.986	0.000		0.08		0.12	0.02	0.18
1.495	29.096	0.019		0.13		0.01	0.20	0.46
0.541	28.994	0.123		0.05		0.00	0.20	0.22
0.936	28.412	0.439		0.12		0.00	0.19	0.12
1.341	29.304	0.050		0.16		0.00	0.02	0.22
1.317	29.086	0.042		0.14		0.00	0.12	0.46

2.38	28.60	0.08		0.29	1.39	0.12	0.22	0.44
2.41	28.59	0.12		0.29	1.32	0.07	0.15	0.42
2.47	28.95	0.11		0.35	0.43	0.06	0.13	0.04
2.28	28.47	0.06		0.33	1.87	0.10	0.09	0.19
2.56	28.98	0.22		0.33	0.37	0.03	0.09	0.08
2.16	28.64	0.22		0.32	0.74	0.13	0.13	0.41

1.38	27.44	0.00	0.00	0.12	0.18	0.27	0.15	0.38
1.47	27.45	0.00	0.07	0.13	0.29	0.32	0.06	0.45
1.47	27.28	0.00	0.11	0.11	0.33	0.38	0.10	0.45
1.47	27.05	0.00	0.14	0.12	0.45	0.44	0.08	0.52
1.37	26.70	0.00	0.26	0.06	0.66	0.54	0.10	0.84
1.59	26.78	0.00	0.16	0.08	0.68	0.51	0.08	0.82
1.18	26.96	0.00	0.05	0.09	0.48	0.42	0.12	0.79
1.18	27.02	0.00	0.16	0.12	0.48	0.40	0.09	0.76
1.18	26.82	0.00	0.02	0.09	0.61	0.41	0.10	0.68
1.16	26.91	0.00	0.08	0.07	0.51	0.45	0.13	0.65
1.32	26.63	0.00	0.08	0.08	0.66	0.54	0.10	0.73
1.33	26.85	0.00	0.13	0.09	0.74	0.48	0.14	0.67
1.34	26.75	0.00	0.02	0.09	0.67	0.58	0.11	0.82
1.34	26.65	0.00	0.18	0.08	0.79	0.55	0.16	0.75
1.36	26.77	0.00	0.02	0.09	0.45	0.55	0.18	0.74
1.49	27.02	0.00	0.08	0.11	0.36	0.50	0.07	0.58
1.56	27.42	0.00	0.00	0.10	0.35	0.46	0.06	0.47
1.51	27.44	0.00	0.00	0.11	0.30	0.44	0.11	0.52
1.43	27.54	0.00	0.00	0.13	0.22	0.35	0.13	0.46
1.47	25.15	0.00	0.00	0.07	0.22	0.23	0.03	0.26
1.28	27.07	0.00	0.07	0.06	0.61	0.30	0.09	0.39
1.35	27.66	0.00	0.06	0.11	0.32	0.28	0.08	0.43
1.45	27.68	0.00	0.28	0.07	0.24	0.37	0.07	0.47
1.58	27.32	0.00	0.17	0.06	0.42	0.37	0.00	0.50
1.45	27.32	0.00	0.10	0.10	0.40	0.41	0.00	0.60
1.36	26.82	0.00	0.10	0.14	0.83	0.52	0.13	0.72
1.31	26.79	0.00	0.97	0.07	0.73	0.50	0.15	0.69
1.31	26.87	0.00	1.43	0.10	0.86	0.51	0.42	0.72
1.69	27.74	0.00	0.00	0.12	0.32	0.22	0.02	0.22
1.53	27.89	0.00	0.08	0.11	0.19	0.32	0.26	0.40

1.41	27.63	0.02	0.00	0.08	0.23	0.57	0.07	0.38
1.57	27.61	0.05	0.00	0.11	0.34	0.43	0.11	0.57
1.44	27.57	0.03	0.00	0.12	0.31	0.41	0.12	0.46
1.10	27.73	0.00	0.00	0.08	0.25	0.44	0.12	0.53
1.30	27.14	0.01	0.03	0.07	0.48	0.55	0.11	0.66
1.37	27.11	0.00	0.01	0.04	0.45	0.46	0.20	1.34
1.08	26.56	0.06	0.00	0.10	0.38	0.49	0.15	0.45
1.40	26.90	0.27	0.07	0.08	0.50	0.50	0.22	0.71
1.47	27.00	0.00	0.04	0.08	0.59	0.49	0.32	0.32
1.48	27.39	0.13	0.00	0.10	0.23	0.39	0.17	0.50
1.29	27.23	0.00	0.04	0.13	0.30	0.37	0.00	0.63
1.31	27.65	0.00	0.12	0.07	0.29	0.35	0.04	0.33
1.38	27.79	0.01	0.00	0.12	0.31	0.27	0.05	0.50
1.31	27.83	0.00	0.01	0.08	0.36	0.30	0.09	0.40
1.17	27.92	0.00	0.08	0.10	0.25	0.20	0.07	0.22
1.27	26.95	0.03	0.20	0.09	0.54	0.51	0.14	0.60
1.60	26.77	0.19	0.00	0.07	0.37	0.59	0.07	0.65
1.37	28.24	0.00	0.01	0.14	0.19	0.06	0.00	0.13
1.19	28.82	0.00	0.00	0.07	0.12	0.04	0.00	0.07
1.52	28.39	0.00	0.00	0.09	0.02	0.02	0.12	0.16
1.67	26.26	0.00	0.00	0.02	0.23	0.28	0.41	1.56
1.54	27.34	0.00	0.22	0.04	0.14	0.14	0.20	0.87
1.59	27.62	0.00	0.06	0.11	0.22	0.14	0.18	0.87
1.67	27.91	0.01	0.10	0.15	0.18	0.08	0.10	0.50
2.12	26.52	0.00	0.10	0.11	0.15	0.16	0.39	1.25
2.48	26.44	0.00	0.11	0.10	0.09	0.19	0.44	1.42
1.63	26.80	0.00	0.00	0.09	0.16	0.19	0.40	1.31
1.57	27.94	0.00	0.00	0.10	0.15	0.05	0.20	0.55
1.69	26.97	0.00	0.04	0.05	0.20	0.16	0.34	1.28
1.62	26.63	0.00	0.00	0.03	0.23	0.23	0.32	1.46
1.26	27.24	0.00	0.03	0.07	0.29	0.15	0.26	0.96
1.17	27.44	0.00	0.00	0.08	0.26	0.12	0.21	0.78
1.42	26.71	0.00	0.00	0.07	0.23	0.17	0.28	1.20
1.22	27.52	0.01	0.00	0.05	0.13	0.14	0.12	0.67
1.44	26.86	0.00	0.00	0.07	0.20	0.11	0.41	1.32
1.35	27.07	0.01	0.00	0.12	0.06	0.05	0.37	1.20
1.33	27.44	0.00	0.04	0.10	0.18	0.08	0.43	1.10
1.23	27.87	0.01	0.00	0.08	0.11	0.04	0.30	0.94
1.44	26.97	0.00	0.22	0.06	0.14	0.11	0.39	1.26
1.28	27.77	0.00	0.05	0.08	0.15	0.09	0.32	0.90
1.33	27.58	0.00	0.05	0.05	0.17	0.11	0.32	1.13
1.59	27.83	0.01	0.00	0.07	0.12	0.04	0.20	0.77
1.79	26.72	0.00	0.05	0.02	0.14	0.15	0.43	1.35
1.48	27.97	0.01	0.00	0.11	0.08	0.04	0.27	0.75
1.54	27.83	0.00	0.00	0.09	0.10	0.05	0.32	0.81
1.46	27.21	0.00	0.00	0.09	0.15	0.10	0.16	0.80
1.50	26.93	0.00	0.00	0.04	0.20	0.23	0.38	1.50
1.64	27.78	0.00	0.03	0.09	0.05	0.08	0.22	0.79

1.51	26.60	0.00	0.10	0.08	0.16	0.27	0.37	1.41
1.18	27.80	0.00	0.05	0.10	0.21	0.14	0.22	0.69
1.62	27.15	0.00	0.00	0.08	0.25	0.23	0.35	0.99
1.81	27.05	0.00	0.02	0.11	0.31	0.08	0.12	0.59
1.56	26.92	0.00	0.00	0.05	0.15	0.25	0.28	1.00
1.36	27.57	0.00	0.05	0.08	0.21	0.14	0.06	0.47
1.41	26.81	0.00	0.00	0.02	0.14	0.22	0.42	1.31
1.55	26.84	0.00	0.08	0.06	0.19	0.24	0.33	1.26
1.58	26.78	0.00	0.00	0.05	0.22	0.22	0.26	1.27
1.59	27.09	0.00	0.06	0.06	0.16	0.19	0.41	1.22
1.63	27.07	0.00	0.05	0.07	0.12	0.13	0.31	1.15
1.24	27.94	0.00	0.00	0.09	0.20	0.12	0.12	0.47
1.48	26.82	0.00	0.11	0.02	0.11	0.20	0.35	1.16
1.63	26.82	0.00	0.00	0.03	0.24	0.17	0.26	0.98
1.74	26.78	0.00	0.15	0.05	0.16	0.21	0.37	1.31
1.56	27.22	0.00	0.02	0.05	0.19	0.16	0.26	1.13
1.54	27.73	0.00	0.02	0.10	0.15	0.09	0.18	0.50
2.06	27.60	0.00	0.13	0.12	0.32	0.08	0.14	0.58
1.72	27.63	0.01	0.00	0.10	0.14	0.08	0.19	0.57
1.55	27.62	0.00	0.00	0.09	0.00	0.16	0.10	0.45
1.64	26.85	0.00	0.06	0.05	0.12	0.17	0.28	1.05
1.52	26.95	0.00	0.00	0.09	0.19	0.22	0.25	0.91
1.57	26.73	0.00	0.18	0.03	0.22	0.22	0.28	1.14
1.28	27.30	0.00	0.05	0.09	0.21	0.13	0.14	0.50
1.72	26.49	0.00	0.00	0.02	0.21	0.14	0.32	1.30
1.63	26.92	0.00	0.00	0.07	0.12	0.20	0.35	1.23
1.51	26.77	0.00	0.00	0.08	0.12	0.23	0.37	1.18
1.68	26.82	0.00	0.11	0.09	0.13	0.23	0.29	1.04
1.69	26.14	0.00	0.00	0.05	0.14	0.28	0.37	1.40
1.31	27.38	0.00	0.05	0.09	0.18	0.20	0.18	0.65
1.56	26.48	0.00	0.00	0.05	0.15	0.25	0.32	1.29
1.58	27.06	0.00	0.10	0.10	0.15	0.30	0.12	0.66
1.61	26.32	0.00	0.02	0.06	0.15	0.28	0.36	1.38
1.58	27.11	0.00	0.00	0.07	0.15	0.17	0.22	0.87
1.55	26.66	0.00	0.00	0.14	0.16	0.07	0.26	0.98
1.84	27.19	0.00	0.00	0.06	0.15	0.18	0.29	1.16
1.63	26.52	0.00	0.08	0.06	0.28	0.19	0.45	1.58
1.73	27.19	0.00	0.08	0.09	0.11	0.11	0.35	1.11
1.73	27.30	0.00	0.12	0.06	0.11	0.15	0.22	0.97
1.73	27.08	0.00	0.09	0.03	0.15	0.21	0.21	1.15
1.73	26.60	0.00	0.01	0.04	0.22	0.30	0.24	1.13
1.56	26.79	0.00	0.00	0.06	0.15	0.25	0.34	1.17
1.63	26.79	0.00	0.03	0.09	0.31	0.06	0.21	0.58
1.65	27.60	0.01	0.01	0.07	0.13	0.12	0.18	0.67
1.55	26.89	0.00	0.00	0.08	0.15	0.15	0.26	1.16
1.68	26.62	0.00	0.00	0.06	0.14	0.14	0.27	1.11
1.40	27.31	0.01	0.00	0.08	0.14	0.14	0.17	0.77
1.49	27.61	0.00	0.08	0.09	0.14	0.10	0.16	0.52

1.51	27.16	0.01	0.00	0.11	0.19	0.11	0.11	0.56
1.32	27.22	0.00	0.02	0.11	0.13	0.12	0.18	0.72
1.75	26.01	0.00	0.03	0.07	0.23	0.28	0.36	1.36
2.44	26.40	0.00	0.06	0.08	0.05	0.14	0.40	1.02
1.50	27.42	0.01	0.07	0.09	0.19	0.09	0.09	0.34
1.60	26.23	0.00	0.00	0.07	0.14	0.16	0.36	1.17
1.66	25.76	0.00	0.09	0.04	0.27	0.16	0.30	0.98
1.57	26.82	0.00	0.01	0.08	0.18	0.18	0.26	1.07
1.58	26.69	0.00	0.00	0.05	0.20	0.17	0.35	1.18
1.46	27.03	0.00	0.02	0.11	0.23	0.15	0.13	0.67
1.88	26.69	0.00	0.00	0.00	0.25	0.29	0.21	1.40
1.81	26.65	0.00	0.03	0.07	0.19	0.20	0.29	1.15
1.80	25.72	0.00	0.05	0.01	0.38	0.28	0.50	1.82
1.33	26.78	0.00	0.00	0.11	0.19	0.17	0.23	0.77
1.37	26.99	0.00	0.03	0.08	0.19	0.12	0.27	0.78
1.38	27.13	0.00	0.00	0.08	0.15	0.14	0.23	0.84
1.97	26.33	0.00	0.14	0.07	0.20	0.18	0.45	1.51
2.16	26.67	0.00	0.00	0.09	0.10	0.11	0.24	0.87
1.78	26.34	0.00	0.11	0.10	0.06	0.10	0.30	0.97
1.49	26.85	0.00	0.00	0.09	0.15	0.09	0.23	1.02
1.38	26.77	0.00	0.03	0.11	0.14	0.11	0.25	0.78
1.65	25.94	0.00	0.00	0.05	0.21	0.16	0.44	1.44
2.19	26.86	0.00	0.00	0.07	0.12	0.21	0.29	1.13
1.90	26.19	0.00	0.00	0.07	0.27	0.24	0.39	1.34
2.09	25.89	0.00	0.04	0.03	0.22	0.28	0.27	1.21
2.06	26.84	0.00	0.08	0.03	0.20	0.27	0.33	1.15
1.77	26.97	0.00	0.01	0.07	0.14	0.15	0.24	0.92
1.65	26.84	0.00	0.02	0.09	0.12	0.18	0.21	0.78
1.63	27.20	0.01	0.02	0.11	0.19	0.05	0.11	0.58
1.80	26.37	0.00	0.12	0.05	0.19	0.13	0.26	1.18
1.88	26.70	0.00	0.02	0.06	0.15	0.21	0.30	1.37
1.93	25.83	0.00	0.00	0.05	0.20	0.32	0.33	1.59
1.83	26.07	0.00	0.03	0.02	0.17	0.31	0.39	1.85
1.86	26.20	0.00	0.00	0.00	0.17	0.30	0.39	1.64
1.87	26.12	0.00	0.00	0.00	0.19	0.33	0.35	1.61
1.84	26.01	0.00	0.17	0.00	0.21	0.30	0.37	1.60
1.80	26.26	0.00	0.12	0.03	0.14	0.24	0.34	1.53
1.87	26.71	0.00	0.00	0.02	0.18	0.23	0.41	1.43
1.85	26.82	0.00	0.07	0.01	0.18	0.23	0.38	1.28
1.66	26.58	0.00	0.14	0.06	0.13	0.18	0.37	1.24
1.61	26.86	0.00	0.00	0.05	0.15	0.20	0.32	1.23
1.59	27.76	0.00	0.09	0.11	0.18	0.11	0.18	0.60
1.63	27.68	0.00	0.00	0.13	0.00	0.04	0.09	0.40
1.75	27.68	0.01	0.00	0.13	0.10	0.02	0.08	0.28
1.58	28.20	0.00	0.13	0.10	0.04	0.00	0.11	0.14
1.53	28.44	0.00	0.04	0.11	0.03	0.00	0.00	0.13
1.65	27.34	0.00	0.00	0.09	0.22	0.11	0.13	0.45
1.46	27.57	0.00	0.02	0.10	0.24	0.09	0.04	0.41

1.42	27.88	0.00	0.00	0.08	0.23	0.10	0.11	0.43
1.42	27.73	0.00	0.02	0.05	0.29	0.09	0.09	0.49
1.37	27.85	0.00	0.13	0.06	0.27	0.11	0.20	0.49
1.33	27.73	0.00	0.06	0.07	0.24	0.13	0.13	0.66
1.80	27.26	0.00	0.13	0.07	0.15	0.13	0.24	0.93
1.81	26.96	0.00	0.00	0.06	0.18	0.11	0.35	0.92
1.37	26.64	0.00	0.05	0.09	0.24	0.13	0.10	0.50
1.55	28.02	0.00	0.00	0.08	0.03	0.05	0.17	0.47
1.15	27.71	0.01	0.00	0.09	0.11	0.05	0.11	0.54
0.76	27.85	0.00	0.00	0.01	0.18	0.09	0.05	0.53
1.53	27.30	0.00	0.07	0.10	0.22	0.07	0.42	1.23
1.39	28.00	0.01	0.00	0.10	0.15	0.03	0.10	0.45
1.34	27.75	0.01	0.00	0.11	0.06	0.00	0.24	0.68
1.21	27.62	0.00	0.09	0.10	0.08	0.00	0.16	0.35
1.17	26.95	0.00	0.13	0.09	0.09	0.06	0.20	0.59
1.27	27.18	0.00	0.00	0.07	0.33	0.16	0.21	0.81
1.34	27.89	0.00	0.27	0.02	0.43	0.14	0.24	0.58
1.62	28.13	0.00	0.00	0.00	0.18	0.11	0.11	0.39
1.33	27.31	0.01	0.06	0.09	0.17	0.07	0.09	0.43
1.31	27.37	0.00	0.13	0.06	0.19	0.14	0.12	0.46
1.49	26.74	0.01	0.00	0.07	0.14	0.13	0.18	1.10
1.55	26.62	0.00	0.04	0.08	0.17	0.09	0.29	1.18
1.68	26.95	0.03	0.04	0.10	0.17	0.18	0.27	0.92
1.76	26.41	0.14	0.09	0.08	0.18	0.24	0.28	1.37
1.65	26.24	0.00	0.00	0.05	0.16	0.25	0.42	1.36
1.63	26.78	0.06	0.05	0.09	0.15	0.16	0.29	1.07
1.79	26.49	0.01	0.08	0.05	0.17	0.21	0.27	1.05
1.79	26.29	0.09	0.00	0.04	0.30	0.21	0.44	1.58
1.77	26.28	0.22	0.00	0.03	0.25	0.23	0.35	1.44
1.76	26.33	0.06	0.00	0.04	0.22	0.17	0.36	1.34
1.20	27.05	0.04	0.00	0.11	0.11	0.11	0.21	0.72
1.49	26.69	0.03	0.09	0.05	0.23	0.18	0.33	1.16
1.58	26.60	0.01	0.00	0.04	0.20	0.18	0.24	1.24
1.69	26.32	0.27	0.06	0.07	0.21	0.18	0.27	1.15
1.80	26.56	0.29	0.00	0.04	0.30	0.17	0.34	1.13
1.79	26.85	0.00	0.00	0.06	0.28	0.16	0.30	1.18
1.81	26.78	0.02	0.00	0.02	0.19	0.21	0.20	1.19
2.24	25.94	0.00	0.00	0.03	0.21	0.30	0.38	1.51
1.70	27.23	0.02	0.00	0.05	0.13	0.17	0.22	0.92
2.05	26.34	0.05	0.00	0.05	0.14	0.24	0.31	1.37
2.12	26.28	0.00	0.04	0.05	0.19	0.23	0.27	1.35
1.92	26.56	0.00	0.00	0.08	0.14	0.17	0.22	1.08
1.60	27.37	0.01	0.00	0.10	0.26	0.19	0.16	0.52
2.02	27.13	0.01	0.04	0.12	0.60	0.07	0.29	0.74
1.44	27.33	0.01	0.00	0.12	0.25	0.10	0.17	0.57
1.26	27.46	0.00	0.00	0.08	0.22	0.20	0.11	0.48
1.53	26.92	0.00	0.00	0.07	0.29	0.17	0.28	1.19
0.98	27.68	0.00	0.10	0.10	0.31	0.15	0.09	0.46

1.20	26.79	0.00	0.06	0.09	0.22	0.19	0.13	0.84
0.92	27.89	0.01	0.10	0.09	0.30	0.15	0.05	0.22
1.33	27.19	0.00	0.00	0.09	0.24	0.12	0.25	0.99
1.28	27.25	0.00	0.00	0.12	0.28	0.14	0.15	0.51
1.51	26.42	0.00	0.00	0.05	0.22	0.23	0.32	1.29
1.48	26.45	0.00	0.08	0.05	0.22	0.22	0.29	1.19
1.09	27.38	0.00	0.00	0.04	0.20	0.18	0.21	0.79
1.32	26.70	0.00	0.00	0.04	0.28	0.18	0.33	1.40
1.52	26.30	0.00	0.00	0.04	0.25	0.20	0.34	1.46
1.45	26.75	0.00	0.00	0.06	0.33	0.19	0.34	1.42
1.50	26.49	0.00	0.00	0.02	0.36	0.24	0.38	1.44
1.45	26.26	0.00	0.10	0.05	0.26	0.17	0.35	1.30
1.42	26.74	0.00	0.00	0.05	0.41	0.19	0.26	1.20
1.35	27.52	0.00	0.17	0.08	0.26	0.13	0.12	0.58
1.30	27.37	0.01	0.02	0.07	0.18	0.11	0.07	0.35
1.40	27.09	0.03	0.01	0.06	0.25	0.13	0.12	0.55
1.69	27.35	0.01	0.06	0.14	0.26	0.09	0.11	0.53
1.66	26.98	0.01	0.00	0.09	0.24	0.15	0.21	0.66
1.76	27.46	0.00	0.00	0.11	0.42	0.15	0.18	0.73
1.69	27.23	0.00	0.00	0.08	0.22	0.10	0.24	1.02
1.80	26.88	0.00	0.00	0.08	0.25	0.13	0.30	0.89
1.69	26.97	0.00	0.09	0.10	0.18	0.14	0.32	0.96
1.19	27.07	0.00	0.00	0.10	0.19	0.12	0.34	1.02
1.37	26.85	0.00	0.00	0.06	0.18	0.15	0.37	1.23
1.46	26.05	0.00	0.00	0.01	0.30	0.20	0.59	2.03
1.66	27.39	0.00	0.02	0.07	0.18	0.11	0.24	0.88
1.71	27.26	0.00	0.11	0.03	0.21	0.18	0.23	0.92
1.48	27.44	0.00	0.00	0.08	0.12	0.14	0.19	0.84
1.63	26.81	0.00	0.14	0.05	0.19	0.22	0.29	1.35
1.30	27.60	0.00	0.09	0.08	0.23	0.16	0.24	0.64
1.61	26.85	0.00	0.03	0.00	0.17	0.21	0.34	1.22
1.67	26.50	0.00	0.06	0.01	0.15	0.27	0.38	1.43
1.51	26.88	0.00	0.06	0.06	0.17	0.24	0.34	1.20
1.70	25.55	0.00	0.00	0.01	0.47	0.31	0.47	1.71
1.49	27.11	0.00	0.00	0.06	0.13	0.16	0.25	1.07
1.65	27.11	0.00	0.08	0.08	0.15	0.17	0.35	1.20
1.72	26.99	0.00	0.17	0.07	0.20	0.23	0.30	1.13
1.81	25.84	0.00	0.07	0.03	0.29	0.29	0.64	1.98
1.52	26.73	0.00	0.18	0.00	0.19	0.20	0.33	1.35
1.27	26.50	0.00	0.12	0.07	0.17	0.12	0.25	1.03
1.62	26.28	0.00	0.10	0.05	0.21	0.23	0.41	1.39
1.27	27.19	0.00	0.00	0.08	0.14	0.15	0.34	1.20
1.68	26.79	0.00	0.06	0.04	0.21	0.27	0.35	1.41
1.83	26.61	0.00	0.00	0.06	0.15	0.21	0.38	1.41
1.74	26.89	0.00	0.10	0.05	0.20	0.18	0.32	1.24
1.62	26.73	0.00	0.06	0.06	0.18	0.25	0.41	1.23
1.54	26.71	0.00	0.05	0.05	0.21	0.19	0.32	1.38

1.42	27.58	0.01	0.00	0.06	0.19	0.13	0.10	0.57
1.59	26.83	0.00	0.02	0.06	0.17	0.22	0.35	1.20
1.55	27.37	0.00	0.20	0.10	0.22	0.16	0.12	0.66
1.87	27.29	0.01	0.19	0.07	0.31	0.10	0.36	0.92
2.25	26.60	0.00	0.11	0.10	0.74	0.09	0.53	1.19
1.95	26.99	0.01	0.01	0.09	0.87	0.15	0.46	1.18
1.42	26.89	0.00	0.00	0.07	0.22	0.17	0.30	1.04
2.05	25.77	0.00	0.05	0.04	0.56	0.29	0.43	1.86
1.53	26.24	0.00	0.05	0.04	0.31	0.23	0.35	1.43
1.94	25.70	0.00	0.03	0.01	0.44	0.28	0.54	1.98
1.45	27.34	0.00	0.03	0.07	0.26	0.19	0.26	0.82
1.80	27.27	0.00	0.10	0.11	0.29	0.14	0.25	0.90
1.74	26.69	0.00	0.00	0.11	0.17	0.14	0.22	1.01
1.52	27.15	0.00	0.03	0.06	0.20	0.18	0.20	0.87
1.40	27.07	0.00	0.00	0.10	0.21	0.22	0.15	0.70
1.82	26.30	0.00	0.04	0.07	0.21	0.20	0.31	1.28
1.67	26.12	0.00	0.00	0.06	0.29	0.24	0.32	1.20
1.98	26.36	0.00	0.00	0.04	0.21	0.26	0.33	1.22
1.85	26.51	0.00	0.00	0.09	0.26	0.27	0.37	1.35
1.83	25.55	0.00	0.00	0.01	0.55	0.31	0.60	1.97
1.84	26.77	0.00	0.11	0.07	0.13	0.24	0.33	1.29
1.57	27.29	0.00	0.00	0.05	0.20	0.18	0.32	0.91
2.08	26.59	0.00	0.00	0.07	0.23	0.19	0.36	1.06
2.20	27.02	0.00	0.11	0.10	0.21	0.18	0.23	0.94
1.94	26.62	0.00	0.00	0.04	0.28	0.23	0.35	1.31
1.48	27.06	0.00	0.00	0.11	0.24	0.14	0.11	0.72
1.64	26.45	0.00	0.05	0.05	0.20	0.21	0.38	1.23
1.53	26.52	0.00	0.11	0.04	0.23	0.23	0.36	1.22
1.37	26.63	0.00	0.16	0.09	0.37	0.19	0.52	1.46
1.72	27.35	0.00	0.00	0.06	0.20	0.13	0.28	0.95
1.40	27.68	0.00	0.00	0.04	0.25	0.19	0.10	0.62
1.65	27.50	0.00	0.05	0.10	0.24	0.07	0.25	0.74
1.70	27.50	0.00	0.15	0.09	0.27	0.11	0.19	0.77
1.70	27.72	0.00	0.00	0.08	0.62	0.09	0.29	0.79
2.37	26.89	0.01	0.13	0.14	1.28	0.07	0.54	1.25
1.68	26.62	0.00	0.02	0.06	0.15	0.16	0.27	1.03
1.99	26.37	0.00	0.00	0.03	0.17	0.30	0.35	1.50
1.73	26.83	0.00	0.05	0.08	0.20	0.19	0.27	1.01
2.02	26.26	0.00	0.00	0.08	0.38	0.19	0.29	1.17
1.47	28.10	0.00	0.10	0.11	0.00	0.02	0.09	0.17
1.68	27.88	0.00	0.07	0.12	0.07	0.01	0.04	0.09
1.29	27.37	0.01	0.04	0.08	0.01	0.01	0.00	0.09
1.80	25.83	0.00	0.00	0.00	0.23	0.26	0.51	1.87
1.77	25.60	0.00	0.21	0.00	0.34	0.25	0.47	2.05
1.63	25.71	0.00	0.05	0.02	0.27	0.25	0.52	1.67
1.52	26.30	0.00	0.00	0.01	0.18	0.18	0.43	1.65
1.90	26.26	0.00	0.01	0.00	0.16	0.25	0.32	1.46
1.88	25.75	0.00	0.05	0.00	0.20	0.30	0.29	1.43
1.77	26.28	0.00	0.00	0.04	0.18	0.21	0.33	1.17
1.83	26.52	0.00	0.00	0.01	0.19	0.21	0.30	1.25
2.29	26.32	0.00	0.04	0.06	0.10	0.17	0.33	1.10

1.93	26.60	0.00	0.08	0.05	0.17	0.18	0.40	1.20
2.20	26.33	0.00	0.16	0.05	0.14	0.21	0.43	1.38
2.30	25.92	0.00	0.00	0.05	0.14	0.22	0.37	1.50
1.99	25.63	0.00	0.04	0.02	0.10	0.26	0.39	1.56
1.42	26.35	0.00	0.13	0.05	0.25	0.21	0.51	1.72
1.51	26.48	0.00	0.00	0.05	0.18	0.25	0.31	1.33
1.52	25.74	0.00	0.12	0.05	0.24	0.28	0.45	1.72
1.86	26.26	0.00	0.09	0.04	0.15	0.23	0.41	1.35
1.38	26.68	0.00	0.00	0.06	0.20	0.19	0.36	1.26
1.48	26.85	0.00	0.00	0.07	0.19	0.16	0.28	1.21
1.73	26.24	0.00	0.17	0.05	0.16	0.18	0.35	1.50
1.55	26.54	0.00	0.00	0.09	0.15	0.16	0.39	1.28
1.86	27.07	0.00	0.00	0.05	0.13	0.08	0.32	1.10
1.87	26.41	0.00	0.00	0.07	0.17	0.16	0.42	1.34
4.11	25.74	0.00	0.01	0.05	0.07	0.15	0.33	1.05
1.82	26.23	0.00	0.00	0.04	0.21	0.18	0.33	1.30
1.83	26.78	0.00	0.01	0.02	0.14	0.24	0.32	1.36
1.85	26.53	0.00	0.06	0.06	0.12	0.21	0.27	1.16
1.78	26.12	0.00	0.09	0.07	0.14	0.21	0.30	1.25
1.66	26.72	0.00	0.00	0.09	0.17	0.13	0.22	0.92
1.95	26.88	0.01	0.05	0.14	0.08	0.01	0.18	0.42
1.69	27.50	0.00	0.00	0.12	0.02	0.02	0.03	0.13
1.64	28.02	0.00	0.25	0.12	0.05	0.00	0.05	0.11
1.72	28.21	0.00	0.03	0.12	0.00	0.00	0.03	0.25
1.67	27.91	0.00	0.00	0.11	0.08	0.07	0.06	0.34
1.53	27.40	0.00	0.00	0.12	0.09	0.00	0.13	0.41
1.73	27.41	0.00	0.10	0.11	0.13	0.02	0.31	0.64
1.53	26.88	0.00	0.00	0.08	0.24	0.13	0.21	0.99
1.44	26.48	0.00	0.00	0.11	0.31	0.10	0.26	0.80
1.98	25.76	0.00	0.10	0.09	0.63	0.16	0.42	1.41
2.16	26.56	0.01	0.09	0.08	1.51	0.08	0.49	1.37
2.17	26.55	0.00	0.06	0.12	0.45	0.13	0.44	0.99
1.44	26.56	0.01	0.13	0.11	0.29	0.12	0.28	0.98
1.70	26.29	0.00	0.00	0.10	0.13	0.10	0.24	0.85
1.47	27.16	0.00	0.07	0.10	0.18	0.02	0.33	0.77
1.33	24.31	0.02	0.00	0.11	0.11	0.03	0.08	0.22
1.51	26.77	0.00	0.00	0.07	0.18	0.15	0.25	1.14
1.50	26.94	0.00	0.00	0.09	0.20	0.19	0.32	1.20
1.22	26.91	0.00	0.11	0.11	0.12	0.09	0.24	0.70
1.35	26.60	0.00	0.00	0.11	0.27	0.10	0.29	1.02
1.14	27.87	0.00	0.09	0.15	0.08	0.02	0.17	0.38
1.36	27.02	0.00	0.00	0.08	0.11	0.13	0.27	0.94
1.69	26.69	0.00	0.08	0.09	0.15	0.10	0.32	1.00
1.29	27.77	0.00	0.07	0.09	0.18	0.09	0.16	0.60
1.55	27.32	0.00	0.07	0.08	0.12	0.09	0.25	0.70
1.16	27.28	0.00	0.01	0.10	0.26	0.08	0.18	0.71
1.46	26.75	0.00	0.08	0.09	0.20	0.15	0.45	1.24
1.47	26.94	0.00	0.00	0.06	0.19	0.13	0.33	1.28

1.56	26.32	0.00	0.13	0.09	0.29	0.15	0.39	1.30
1.99	26.82	0.00	0.00	0.09	0.10	0.14	0.30	0.98
1.58	27.16	0.00	0.02	0.09	0.18	0.09	0.30	1.05
2.07	27.53	0.01	0.00	0.13	0.13	0.03	0.14	0.39
1.59	26.42	0.00	0.04	0.07	0.28	0.11	0.39	1.06
1.80	26.23	0.00	0.00	0.07	0.30	0.18	0.50	1.65
1.86	26.46	0.00	0.00	0.06	0.17	0.19	0.41	1.47
1.89	26.72	0.00	0.01	0.05	0.16	0.17	0.33	1.22
2.16	26.31	0.00	0.00	0.08	0.09	0.18	0.35	1.10
2.23	26.41	0.00	0.00	0.09	0.19	0.16	0.26	0.92
2.19	26.27	0.00	0.16	0.08	0.49	0.27	0.37	1.51
1.77	27.06	0.01	0.00	0.10	0.27	0.13	0.27	0.97
1.88	26.92	0.00	0.00	0.12	0.12	0.02	0.26	0.71
1.48	26.90	0.00	0.00	0.12	0.25	0.13	0.19	0.63
1.38	26.68	0.00	0.13	0.12	0.21	0.16	0.17	0.71
1.57	26.85	0.00	0.00	0.09	0.14	0.07	0.31	0.80
1.35	27.25	0.00	0.02	0.09	0.14	0.15	0.04	0.56
1.66	27.07	0.00	0.06	0.07	0.22	0.10	0.15	0.87
1.31	27.32	0.00	0.13	0.10	0.23	0.17	0.10	0.69
1.49	27.00	0.01	0.02	0.11	0.21	0.13	0.12	0.47
1.45	27.73	0.00	0.04	0.13	0.22	0.14	0.13	0.50
1.74	26.77	0.00	0.00	0.05	0.12	0.18	0.38	1.23
1.57	25.61	0.00	0.05	0.05	0.17	0.31	0.38	1.58
1.34	26.90	0.00	0.03	0.07	0.21	0.19	0.12	0.57
1.73	26.12	0.00	0.00	0.05	0.23	0.27	0.31	1.47
1.62	26.85	0.00	0.05	0.04	0.17	0.19	0.24	1.15
1.50	26.26	0.00	0.00	0.07	0.19	0.20	0.24	1.00
1.64	25.54	0.00	0.03	0.06	0.13	0.19	0.31	1.34
1.61	26.81	0.00	0.11	0.03	0.20	0.22	0.32	1.23
1.30	26.36	0.00	0.00	0.06	0.22	0.19	0.42	1.34
1.61	25.98	0.00	0.09	0.05	0.15	0.15	0.36	1.42
1.63	25.80	0.00	0.00	0.05	0.22	0.16	0.32	1.13
1.69	26.66	0.00	0.02	0.08	0.10	0.07	0.41	1.23
1.33	26.59	0.00	0.15	0.10	0.13	0.09	0.33	1.31
1.62	26.16	0.01	0.00	0.09	0.08	0.07	0.34	0.88
1.06	26.66	0.00	0.05	0.11	0.09	0.04	0.18	0.58
1.21	27.93	0.01	0.09	0.13	0.15	0.03	0.14	0.46
1.00	27.64	0.01	0.00	0.13	0.09	0.00	0.13	0.26
1.21	27.11	0.00	0.00	0.11	0.18	0.09	0.20	0.65
1.24	27.19	0.00	0.00	0.13	0.17	0.13	0.14	0.69
1.54	26.90	0.00	0.09	0.06	0.24	0.17	0.39	1.17
1.48	27.89	0.00	0.00	0.14	0.15	0.04	0.04	0.21
1.49	27.87	0.00	0.02	0.16	0.50	0.09	0.12	0.57
1.54	27.73	0.00	0.21	0.15	0.34	0.07	0.18	0.55
1.39	27.80	0.00	0.00	0.16	0.44	0.06	0.06	0.27
1.39	27.47	0.00	0.12	0.14	0.52	0.11	0.10	0.63

2.08	27.79	0.01	0.07	0.16	0.32	0.07	0.08	0.54
2.02	27.24	0.01	0.15	0.15	0.67	0.32	0.21	0.73
1.88	27.32	0.00	0.00	0.16	0.56	0.30	0.11	0.71
1.78	27.07	0.00	0.00	0.08	0.29	0.26	0.19	0.96
1.63	26.99	0.00	0.00	0.05	0.25	0.29	0.28	1.02
1.76	27.10	0.00	0.00	0.07	0.24	0.26	0.13	0.85
1.74	26.81	0.00	0.12	0.06	0.20	0.28	0.16	0.96
1.76	27.00	0.00	0.12	0.08	0.23	0.27	0.22	0.94
1.53	27.00	0.00	0.04	0.07	0.31	0.30	0.00	0.85
0.97	26.91	0.01	0.14	0.12	0.42	0.28	0.17	0.90
1.08	27.00	0.00	0.12	0.09	0.39	0.26	0.15	0.76
1.12	27.23	0.00	0.00	0.14	0.33	0.20	0.18	0.85
1.16	27.24	0.00	0.07	0.11	0.33	0.25	0.19	0.69
1.58	27.26	0.00	0.04	0.13	0.23	0.17	0.14	0.59
1.39	27.09	0.00	0.00	0.09	0.27	0.20	0.24	1.02
1.33	26.71	0.00	0.07	0.05	0.48	0.36	0.29	1.21
1.28	26.76	0.00	0.01	0.05	0.44	0.35	0.32	1.13
1.38	27.11	0.00	0.04	0.07	0.52	0.33	0.19	0.98
1.41	27.10	0.00	0.00	0.11	0.48	0.34	0.22	0.98
1.43	27.36	0.00	0.17	0.09	0.41	0.31	0.17	0.70
1.71	27.49	0.00	0.03	0.07	0.42	0.30	0.11	0.68
1.87	27.25	0.00	0.00	0.14	0.54	0.34	0.12	0.66
1.94	27.26	0.00	0.01	0.15	0.70	0.33	0.18	0.69
2.12	26.54	0.00	0.14	0.14	1.46	0.44	0.24	1.04
2.28	26.87	0.00	0.00	0.18	0.45	0.19	0.09	0.57
2.11	26.22	0.00	0.14	0.09	1.54	0.44	0.20	1.00
1.98	27.01	0.01	0.00	0.11	0.83	0.37	0.21	0.85
2.08	27.14	0.00	0.06	0.15	0.82	0.29	0.20	0.67
1.83	27.06	0.04	0.13	0.17	0.52	0.15	0.16	0.79
1.54	27.02	0.00	0.06	0.17	0.78	0.21	0.13	0.65
1.38	27.28	0.01	0.00	0.17	0.53	0.16	0.12	0.57
1.48	27.13	0.01	0.02	0.16	0.48	0.11	0.18	0.52
1.42	27.04	0.00	0.08	0.14	0.52	0.11	0.16	0.52
1.64	26.82	0.02	0.11	0.15	1.84	0.22	0.26	0.99
1.38	27.51	0.00	0.00	0.17	0.36	0.11	0.06	0.45
1.38	28.12	0.00	0.00	0.15	0.06	0.02	0.04	0.05
1.08	27.93	0.00	0.02	0.08	0.33	0.00	0.05	0.17
1.55	26.74	0.00	0.00	0.11	0.50	0.36	0.19	0.80
1.55	27.59	0.00	0.06	0.19	0.29	0.09	0.04	0.43
2.02	26.67	0.00	0.02	0.21	1.31	0.24	0.17	0.73
1.97	27.16	0.00	0.00	0.15	0.82	0.27	0.21	0.67
1.57	27.15	0.00	0.15	0.09	0.30	0.31	0.11	0.75
1.53	26.90	0.00	0.05	0.10	0.38	0.30	0.27	0.80
1.55	27.07	0.00	0.00	0.09	0.35	0.32	0.16	0.78
1.58	26.94	0.00	0.00	0.09	0.35	0.31	0.19	0.76
1.49	27.08	0.00	0.08	0.09	0.50	0.37	0.13	0.89
1.59	27.05	0.00	0.18	0.10	0.38	0.32	0.16	0.67
1.56	26.99	0.00	0.09	0.10	0.38	0.31	0.16	0.80

1.60	26.94	0.00	0.07	0.10	0.44	0.34	0.16	0.84
1.78	26.76	0.00	0.18	0.07	0.39	0.34	0.27	1.01
1.66	26.65	0.00	0.04	0.11	0.48	0.33	0.21	0.96
1.67	26.71	0.00	0.07	0.08	0.33	0.33	0.25	0.95
1.63	26.69	0.00	0.01	0.10	0.33	0.35	0.26	1.02
1.58	26.45	0.00	0.17	0.06	0.47	0.38	0.34	1.22
1.84	26.84	0.00	0.00	0.08	0.28	0.35	0.16	0.99
1.76	26.76	0.00	0.12	0.06	0.27	0.36	0.23	0.96
1.70	26.87	0.00	0.06	0.09	0.33	0.36	0.15	0.87
1.62	27.02	0.00	0.00	0.10	0.29	0.33	0.12	0.84
1.52	27.00	0.00	0.00	0.05	0.34	0.33	0.15	0.76
1.55	27.34	0.00	0.00	0.08	0.32	0.29	0.15	0.68
1.74	27.21	0.00	0.14	0.11	0.35	0.34	0.16	0.71
1.86	26.94	0.00	0.00	0.12	0.52	0.36	0.22	0.90
1.74	26.83	0.00	0.10	0.13	0.41	0.32	0.14	0.74
1.70	27.16	0.00	0.00	0.10	0.43	0.31	0.16	0.76
1.60	27.12	0.00	0.00	0.10	0.27	0.30	0.11	0.67
1.59	26.95	0.00	0.11	0.08	0.44	0.28	0.12	0.55
1.50	27.23	0.00	0.09	0.08	0.39	0.32	0.17	0.60
1.39	27.08	0.00	0.00	0.12	0.46	0.34	0.14	0.65
1.59	26.95	0.00	0.04	0.09	0.38	0.29	0.12	0.78
1.50	27.17	0.00	0.10	0.07	0.33	0.32	0.14	0.65
1.42	26.99	0.00	0.13	0.10	0.53	0.33	0.17	0.87
1.36	26.66	0.00	0.13	0.04	0.74	0.36	0.16	0.86
1.55	26.97	0.00	0.04	0.09	0.41	0.29	0.08	0.72
1.58	27.04	0.00	0.00	0.09	0.41	0.29	0.20	0.67
1.64	27.16	0.00	0.06	0.09	0.36	0.29	0.21	0.85
1.51	26.62	0.00	0.01	0.05	0.33	0.28	0.19	0.77
1.45	27.09	0.00	0.05	0.09	0.38	0.32	0.11	0.72
1.63	27.07	0.00	0.03	0.08	0.42	0.31	0.10	0.75
1.51	27.19	0.00	0.09	0.11	0.32	0.26	0.22	0.76
1.42	27.23	0.00	0.00	0.09	0.35	0.28	0.15	0.61
1.47	27.26	0.00	0.13	0.09	0.36	0.33	0.15	0.71
1.64	27.24	0.00	0.00	0.08	0.33	0.31	0.16	0.82
1.68	27.03	0.00	0.00	0.12	0.27	0.34	0.14	0.83
1.71	27.01	0.00	0.00	0.08	0.40	0.34	0.17	0.70
1.73	26.76	0.00	0.00	0.11	0.38	0.31	0.11	0.65
1.52	25.99	0.00	0.20	0.10	1.00	0.42	0.21	0.91
1.46	27.08	0.00	0.18	0.11	0.35	0.32	0.09	0.72
1.86	26.71	0.00	0.01	0.07	0.32	0.42	0.22	0.94
1.78	25.60	0.00	0.00	0.04	0.92	0.49	0.40	1.61
1.82	26.72	0.00	0.04	0.08	0.27	0.31	0.18	0.80
1.71	25.76	0.00	0.05	0.00	0.76	0.45	0.24	1.33
1.50	26.79	0.00	0.06	0.08	0.36	0.29	0.24	0.81
1.82	27.04	0.00	0.00	0.10	0.38	0.33	0.14	0.73
1.48	27.02	0.00	0.11	0.08	0.42	0.36	0.16	0.95
1.53	26.91	0.00	0.13	0.08	0.34	0.31	0.21	0.99
1.33	26.59	0.00	0.01	0.07	0.64	0.35	0.18	1.05

1.37	26.84	0.00	0.19	0.07	0.44	0.35	0.21	0.95
1.62	26.78	0.00	0.22	0.10	0.49	0.38	0.18	0.73
1.55	26.75	0.00	0.02	0.05	0.41	0.41	0.18	0.73
1.32	26.64	0.00	0.03	0.07	0.73	0.35	0.27	1.14
1.54	26.83	0.00	0.00	0.10	0.33	0.34	0.14	0.88
1.11	27.84	0.02	0.01	0.12	0.12	0.06	0.00	0.17
1.63	26.80	0.07	0.11	0.18	0.28	0.13	0.06	0.41
1.50	26.57	0.00	0.11	0.10	0.69	0.42	0.32	1.08
1.70	27.17	0.00	0.04	0.19	0.58	0.14	0.10	0.82
1.58	27.25	0.00	0.00	0.14	0.77	0.24	0.18	0.75
2.16	27.08	0.01	0.00	0.16	0.68	0.35	0.22	0.77
2.05	27.00	0.01	0.02	0.16	0.57	0.34	0.21	0.72
1.99	26.89	0.00	0.00	0.19	0.50	0.39	0.15	0.71
1.70	26.90	0.00	0.00	0.06	0.34	0.35	0.15	0.69
1.64	26.71	0.00	0.02	0.07	0.27	0.36	0.32	0.99
1.58	27.24	0.00	0.00	0.07	0.40	0.27	0.20	0.79
1.54	26.90	0.00	0.01	0.12	0.35	0.38	0.18	0.82
1.65	27.10	0.00	0.14	0.10	0.38	0.34	0.15	0.75
1.27	26.63	0.00	0.11	0.10	0.75	0.35	0.25	0.95
1.63	26.92	0.00	0.10	0.11	0.38	0.35	0.11	0.76
1.67	26.95	0.00	0.00	0.11	0.49	0.39	0.14	0.68
1.70	27.11	0.00	0.17	0.12	0.43	0.37	0.13	0.67
1.60	27.10	0.00	0.04	0.11	0.43	0.38	0.24	0.77
1.57	26.93	0.00	0.03	0.09	0.44	0.37	0.22	0.67
1.60	26.98	0.00	0.00	0.11	0.38	0.34	0.15	0.77
1.56	26.81	0.00	0.08	0.10	0.40	0.34	0.24	0.70
1.44	27.13	0.00	0.05	0.06	0.39	0.37	0.13	0.65
1.59	27.10	0.00	0.00	0.08	0.34	0.32	0.16	0.79
1.67	26.94	0.00	0.09	0.10	0.27	0.34	0.19	0.76
2.04	27.03	0.00	0.15	0.15	0.46	0.35	0.12	0.79
2.20	27.21	0.00	0.00	0.17	0.59	0.32	0.25	0.79
2.17	27.06	0.01	0.00	0.17	0.84	0.19	0.14	0.78
1.92	27.10	0.00	0.02	0.17	0.58	0.11	0.14	0.68
1.70	27.34	0.00	0.00	0.15	0.43	0.16	0.08	0.64
1.44	27.54	0.00	0.03	0.13	0.35	0.17	0.10	0.39
1.77	27.05	0.00	0.14	0.09	0.27	0.30	0.27	1.02
1.51	27.51	0.00	0.00	0.09	0.35	0.24	0.17	0.61
1.51	26.64	0.01	0.08	0.10	0.39	0.20	0.08	0.34
1.67	27.62	0.00	0.00	0.14	0.49	0.18	0.09	0.36
1.65	27.69	0.00	0.01	0.11	0.33	0.10	0.06	0.28
1.57	28.07	0.00	0.09	0.12	0.23	0.06	0.08	0.24
1.50	28.00	0.01	0.00	0.13	0.17	0.01	0.07	0.21
1.51	27.53	0.00	0.08	0.10	0.47	0.18	0.05	0.41
1.48	27.24	0.00	0.01	0.09	0.30	0.22	0.10	0.51
1.45	26.83	0.00	0.13	0.06	0.25	0.29	0.11	0.61
1.66	26.38	0.00	0.00	0.09	0.27	0.25	0.21	0.82
1.62	27.09	0.00	0.06	0.08	0.32	0.32	0.20	0.81
1.64	27.12	0.00	0.00	0.09	0.31	0.31	0.16	0.71

1.75	26.45	0.00	0.08	0.08	0.38	0.38	0.28	1.16
3.40	23.90	0.00	0.00	0.09	0.27	0.33	0.00	0.95
2.04	26.49	0.00	0.08	0.10	0.37	0.41	0.26	1.05
1.98	26.69	0.00	0.03	0.12	0.40	0.35	0.16	0.73
1.95	26.78	0.00	0.04	0.14	0.76	0.36	0.08	0.70
1.97	26.80	0.00	0.05	0.12	0.57	0.37	0.19	0.72
1.56	26.84	0.00	0.02	0.09	0.66	0.35	0.21	0.82
1.57	26.74	0.00	0.15	0.10	0.76	0.31	0.26	1.11
1.55	26.61	0.00	0.04	0.09	0.60	0.36	0.23	1.00
1.81	26.84	0.00	0.28	0.11	0.48	0.40	0.27	0.96
1.91	26.84	0.00	0.01	0.11	0.49	0.37	0.15	0.72
1.87	26.82	0.00	0.00	0.10	0.42	0.40	0.13	0.73
1.92	26.90	0.00	0.00	0.08	0.46	0.41	0.24	0.75
1.92	26.88	0.00	0.11	0.14	0.43	0.39	0.15	0.93
1.95	26.65	0.00	0.00	0.08	0.28	0.37	0.19	1.17
2.18	26.66	0.00	0.14	0.16	0.28	0.40	0.21	1.04
1.96	27.00	0.00	0.11	0.10	0.27	0.39	0.19	0.85
1.84	26.90	0.00	0.12	0.10	0.28	0.33	0.22	0.89
1.68	26.78	0.00	0.20	0.09	0.39	0.36	0.18	0.81
1.56	27.47	0.00	0.00	0.14	0.40	0.20	0.14	0.53
1.37	27.62	0.00	0.11	0.09	0.43	0.27	0.06	0.54
1.38	27.29	0.00	0.00	0.06	0.43	0.33	0.19	0.73
1.63	26.89	0.00	0.03	0.07	0.20	0.36	0.29	1.25
1.66	26.72	0.00	0.05	0.09	0.20	0.37	0.24	1.17
1.34	27.37	0.00	0.01	0.05	0.47	0.32	0.19	0.76
1.49	26.88	0.00	0.07	0.07	0.64	0.31	0.16	0.81
1.61	26.44	0.00	0.11	0.13	1.03	0.42	0.24	1.05
1.59	26.72	0.00	0.17	0.09	0.45	0.40	0.17	0.77
1.47	26.84	0.00	0.00	0.11	0.35	0.39	0.20	0.78
1.78	26.90	0.00	0.00	0.07	0.26	0.32	0.24	1.01
1.48	27.14	0.00	0.00	0.12	0.25	0.27	0.17	0.87
1.57	27.84	0.01	0.05	0.12	0.40	0.13	0.07	0.31
1.69	27.91	0.00	0.07	0.12	0.34	0.16	0.04	0.44
1.55	27.86	0.00	0.07	0.14	0.40	0.13	0.10	0.35
1.71	26.67	0.00	0.08	0.12	1.15	0.40	0.34	1.30
1.67	26.59	0.00	0.09	0.13	1.08	0.43	0.33	1.16
1.54	26.74	0.00	0.16	0.08	0.73	0.41	0.41	1.12
1.68	26.81	0.00	0.32	0.07	1.08	0.41	0.28	1.11
1.47	27.74	0.00	0.05	0.08	0.47	0.17	0.16	0.44
1.22	28.28	0.00	0.04	0.13	0.25	0.06	0.10	0.22
1.54	28.63	0.00	0.01	0.10	0.16	0.07	0.06	0.11
1.59	28.70	0.00	0.06	0.11	0.20	0.01	0.04	0.03
1.53	27.49	0.01	0.00	0.13	0.40	0.19	0.00	1.50
1.52	27.63	0.00	0.00	0.11	0.35	0.19	0.11	0.50
1.46	27.36	0.00	0.14	0.10	0.26	0.30	0.13	0.75
1.76	27.19	0.00	0.00	0.16	0.39	0.32	0.15	0.76
1.83	27.14	0.00	0.04	0.08	0.32	0.33	0.29	0.76
1.86	27.33	0.00	0.03	0.11	0.37	0.33	0.16	0.85

1.84	26.91	0.00	0.00	0.11	0.43	0.35	0.18	0.82
1.78	27.11	0.00	0.00	0.06	0.47	0.33	0.21	0.86
1.94	27.45	0.00	0.19	0.13	0.52	0.31	0.15	0.70
1.84	27.36	0.00	0.00	0.13	0.55	0.27	0.12	0.74
1.81	27.63	0.00	0.20	0.16	0.50	0.30	0.19	0.75
1.59	27.25	0.00	0.08	0.09	0.66	0.35	0.24	0.93
1.86	27.42	0.00	0.00	0.12	0.50	0.34	0.05	0.76
1.78	27.29	0.00	0.00	0.10	0.54	0.31	0.19	0.86
1.86	27.18	0.00	0.14	0.15	0.43	0.34	0.09	0.80
1.78	27.37	0.00	0.00	0.11	0.44	0.33	0.15	0.70
1.82	27.40	0.00	0.17	0.10	0.45	0.29	0.16	0.67
1.61	24.73	0.00	0.00	0.10	0.38	0.32	0.14	0.63
1.42	27.20	0.00	0.03	0.08	0.36	0.31	0.28	0.77
1.59	27.62	0.00	0.00	0.11	0.39	0.29	0.11	0.58
1.40	27.86	0.00	0.09	0.10	0.42	0.24	0.10	0.54
1.42	27.74	0.00	0.03	0.12	0.41	0.22	0.10	0.36
1.58	28.11	0.01	0.16	0.12	0.46	0.15	0.05	0.47
1.51	28.07	0.00	0.08	0.10	0.43	0.19	0.06	0.43
1.57	27.91	0.00	0.00	0.13	0.40	0.12	0.10	0.38
1.45	27.60	0.00	0.06	0.08	0.34	0.27	0.13	0.60
1.54	27.33	0.00	0.15	0.11	0.42	0.27	0.15	0.79
1.64	27.70	0.00	0.00	0.09	0.33	0.29	0.17	0.72
1.68	27.14	0.00	0.09	0.08	0.32	0.31	0.21	0.97
1.70	27.18	0.00	0.16	0.06	0.32	0.33	0.21	0.78
1.38	27.58	0.00	0.00	0.11	0.38	0.21	0.22	0.81
1.58	27.80	0.00	0.00	0.14	0.24	0.10	0.20	0.63
1.73	27.79	0.00	0.00	0.08	0.26	0.18	0.18	0.74
1.93	27.08	0.00	0.05	0.15	0.31	0.16	0.19	0.71
1.81	27.40	0.00	0.01	0.11	0.25	0.12	0.13	0.65
1.76	27.18	0.00	0.00	0.10	0.16	0.18	0.12	0.73
1.79	27.58	0.00	0.06	0.13	0.07	0.16	0.14	0.70
1.79	27.98	0.00	0.00	0.11	0.17	0.12	0.17	0.62
1.76	27.87	0.00	0.00	0.10	0.19	0.11	0.16	0.58
1.35	27.44	0.00	0.00	0.03	0.51	0.34	0.16	0.92
0.92	27.84	0.01	0.00	0.10	0.35	0.16	0.05	0.47
1.36	27.45	0.00	0.01	0.10	0.36	0.32	0.21	0.79
1.49	27.35	0.00	0.11	0.09	0.34	0.33	0.16	0.90
1.44	27.44	0.00	0.04	0.09	0.36	0.27	0.16	0.79
1.41	27.86	0.00	0.03	0.12	0.36	0.18	0.08	0.46
1.53	27.58	0.00	0.04	0.12	0.34	0.16	0.17	0.42
1.33	27.31	0.00	0.05	0.07	0.35	0.34	0.12	0.69
1.55	27.20	0.00	0.02	0.08	0.32	0.46	0.13	0.73
1.69	27.07	0.00	0.06	0.12	0.33	0.43	0.21	0.77
1.71	26.84	0.00	0.17	0.18	0.67	0.42	0.19	0.88
1.59	26.91	0.00	0.06	0.18	0.92	0.47	0.18	0.81
2.02	26.92	0.00	0.03	0.21	0.64	0.50	0.13	0.83
1.74	26.83	0.00	0.14	0.06	0.79	0.50	0.23	1.03
2.20	26.83	0.01	0.16	0.29	0.89	0.54	0.10	0.81

1.98	26.19	0.00	0.09	0.21	1.45	0.61	0.27	0.97
1.93	26.65	0.00	0.23	0.15	1.37	0.64	0.23	0.94
1.93	26.25	0.01	0.19	0.29	1.48	0.67	0.27	0.96
2.00	26.46	0.02	0.25	0.28	1.56	0.66	0.29	1.00
2.12	26.89	0.00	0.07	0.36	0.93	0.56	0.16	0.76
2.24	26.96	0.00	0.07	0.26	0.82	0.56	0.19	0.90
2.15	26.80	0.00	0.25	0.22	0.62	0.51	0.22	0.89
2.24	26.82	0.00	0.07	0.18	0.53	0.49	0.14	0.86
1.61	27.06	0.00	0.00	0.18	0.46	0.44	0.17	0.82
1.52	26.80	0.00	0.07	0.06	0.28	0.39	0.13	0.90
1.11	28.20	0.00	0.03	0.10	0.07	0.02	0.00	0.07
1.06	28.27	0.00	0.03	0.09	0.29	0.09	0.00	0.16
1.07	27.87	0.00	0.12	0.10	0.46	0.10	0.12	0.30
1.41	27.38	0.00	0.14	0.12	1.26	0.19	0.18	0.62
1.38	27.54	0.01	0.16	0.10	1.19	0.24	0.15	0.56
1.42	27.31	0.02	0.28	0.12	1.26	0.26	0.09	0.55
1.42	27.33	0.01	0.25	0.12	1.04	0.27	0.18	0.58
1.42	27.22	0.01	0.14	0.08	1.28	0.27	0.18	0.62
1.48	27.37	0.00	0.20	0.12	1.32	0.27	0.11	0.65
1.39	27.59	0.01	0.13	0.12	1.06	0.20	0.18	0.60
1.37	27.53	0.00	0.12	0.14	1.07	0.15	0.21	0.63
1.42	27.76	0.00	0.11	0.13	0.83	0.17	0.13	0.54
1.43	27.70	0.00	0.00	0.11	0.78	0.17	0.14	0.49
1.37	27.87	0.00	0.09	0.11	0.82	0.17	0.15	0.54
1.62	27.90	0.00	0.11	0.12	0.72	0.17	0.13	0.35
1.60	27.72	0.00	0.18	0.13	0.55	0.13	0.10	0.35
1.35	28.36	0.00	0.00	0.09	0.16	0.01	0.00	0.08
1.85	27.42	0.00		0.08	0.22	0.16	0.36	1.22
1.95	27.10	0.00		0.10	0.26	0.18	0.39	1.22
1.70	26.24	0.00		0.07	0.39	0.37	0.72	1.96
1.81	27.65	0.00		0.10	0.12	0.12	0.42	1.18
1.69	27.90	0.00		0.13	0.12	0.16	0.26	0.86
1.43	27.15	0.01		0.12	0.16	0.22	0.53	1.33
1.81	27.39	0.00		0.12	0.22	0.11	0.42	1.31
1.53	28.46	0.00		0.11	0.24	0.06	0.05	0.34
1.48	27.15	0.00		0.11	0.30	0.17	0.67	1.49
1.80	27.34	0.02		0.10	0.20	0.26	0.40	1.36
0.99	28.49	0.00		0.14	0.07	0.01	0.07	0.43
1.79	27.81	0.00		0.13	0.08	0.07	0.21	0.71
1.71	27.45	0.00		0.11	0.11	0.11	0.50	1.43
1.87	28.23	0.00		0.12	0.20	0.00	0.12	0.40
1.47	30.62	0.13		0.12	0.05	0.22	0.39	0.41
1.71	27.97	0.00		0.12	0.08	0.19	0.00	0.52
1.54	26.98	0.00		0.09	0.26	0.17	0.58	1.79
1.14	29.17	0.01		0.10	0.32	0.08	0.00	0.10
2.10	28.62	0.02		0.15	0.30	0.04	0.13	0.29
1.84	27.72	0.00		0.13	0.23	0.17	0.26	1.00

1.78	27.68	0.00	0.12	0.08	0.14	0.39	0.77
1.86	28.46	0.00	0.13	0.22	0.06	0.18	0.52
1.80	28.33	0.00	0.14	0.20	0.06	0.29	0.44
1.60	28.05	0.01	0.12	0.09	0.05	0.22	0.66
1.83	28.08	0.01	0.10	0.21	0.12	0.10	0.59
2.09	26.66	0.00	0.12	0.11	0.13	0.09	0.24
2.03	27.72	0.00	0.11	0.15	0.11	0.40	0.99
1.93	27.97	0.00	0.15	0.11	0.17	0.16	0.42
1.65	27.23	0.00	0.13	0.17	0.14	0.49	1.15
1.77	27.29	0.00	0.12	0.21	0.18	0.27	1.10
1.82	27.37	0.00	0.12	0.14	0.10	0.22	1.07
1.47	27.13	0.00	0.12	0.14	0.19	0.31	1.13
1.79	27.08	0.00	0.10	0.18	0.15	0.19	1.32
1.43	27.75	0.00	0.13	0.15	0.26	0.13	0.62
1.34	27.58	0.00	0.11	0.19	0.27	0.14	0.62
1.91	26.98	0.00	0.11	0.16	0.14	0.30	1.04
1.79	27.09	0.00	0.12	0.14	0.19	0.34	1.09
1.73	27.29	0.00	0.12	0.12	0.15	0.33	1.23
2.13	27.51	0.00	0.10	0.17	0.21	0.29	1.20
1.95	27.30	0.00	0.11	0.17	0.17	0.35	1.19
2.00	27.53	0.00	0.11	0.12	0.18	0.35	1.24
2.08	28.47	0.00	0.14	0.41	0.08	0.20	0.50
2.02	28.56	0.03	0.15	0.25	0.03	0.13	0.57
2.02	28.28	0.01	0.15	0.30	0.18	0.10	0.65
1.95	28.79	0.02	0.16	0.12	0.02	0.15	0.32
1.83	27.50	0.00	0.12	0.24	0.19	0.24	1.09
1.13	29.98	0.00	0.03	0.01	0.00	0.00	0.00
1.18	29.89	0.00	0.04	0.02	0.00	0.04	0.12
0.92	26.89	0.00	0.05	0.05	0.01	0.00	0.00
1.60	27.67	0.00	0.09	0.22	0.13	0.33	1.20
1.17	28.21	0.00	0.14	0.15	0.14	0.16	0.87
1.44	28.50	0.00	0.11	0.32	0.15	0.12	0.61
1.54	29.31	0.00	0.09	0.11	0.02	0.06	0.10
1.93	28.20	0.01	0.14	0.35	0.14	0.18	0.74
1.68	29.93	0.00	0.02	0.01	0.00	0.00	0.01
1.45	27.72	0.00	0.10	0.24	0.14	0.44	1.35
1.82	28.10	0.00	0.13	0.36	0.15	0.19	0.84
1.40	29.14	0.00	0.11	0.20	0.01	0.00	0.04
2.10	29.13	0.00	0.11	0.07	0.04	0.00	0.00
1.88	28.99	0.01	0.09	0.06	0.01	0.00	0.06
2.02	29.32	0.02	0.10	0.11	0.01	0.00	0.07
1.96	29.32	0.01	0.10	0.11	0.01	0.05	0.05
2.10	28.25	0.00	0.12	0.15	0.08	0.36	0.97
1.70	27.98	0.00	0.11	0.23	0.16	0.35	1.05
1.87	28.14	0.00	0.10	0.14	0.16	0.34	1.09

2.17	27.23	0.00	0.09	0.17	0.26	0.25	1.44
1.87	27.45	0.00	0.11	0.26	0.23	0.32	1.43
1.81	27.99	0.00	0.11	0.24	0.13	0.12	1.09
2.00	27.84	0.00	0.11	0.24	0.20	0.31	1.27
1.76	27.35	0.00	0.11	0.47	0.19	0.44	1.51
2.10	27.94	0.00	0.10	0.13	0.10	0.39	0.91
2.19	26.93	0.00	0.10	0.16	0.26	0.32	1.51
1.53	28.15	0.01	0.16	0.03	0.21	0.25	0.52
1.25	28.44	0.00	0.14	0.17	0.07	0.31	0.61
1.90	28.14	0.01	0.10	0.19	0.14	0.26	0.88
2.03	28.12	0.00	0.13	0.20	0.10	0.22	1.02
1.78	27.81	0.00	0.10	0.20	0.19	0.18	1.12
1.30	27.91	0.00	0.10	0.30	0.20	0.21	0.80
1.49	27.25	0.00	0.11	0.09	0.31	0.30	1.24
1.83	28.19	0.01	0.16	0.24	0.07	0.36	0.93
1.76	27.74	0.00	0.15	0.33	0.18	0.32	1.23
1.65	28.61	0.01	0.11	0.26	0.15	0.10	0.46
1.48	27.60	0.00	0.13	0.15	0.22	0.21	0.97
1.42	27.94	0.01	0.12	0.09	0.21	0.09	0.56
1.80	28.32	0.00	0.12	0.19	0.15	0.18	0.98
1.32	27.96	0.00	0.12	0.15	0.32	0.21	0.78
1.52	27.77	0.00	0.10	0.13	0.21	0.28	0.64
1.92	27.29	0.00	0.11	0.10	0.19	0.22	1.07

1.45	27.97	0.01	0.12	0.07	0.04	0.41
1.50	28.03	0.01	0.12	0.13	0.11	0.42
1.17	27.97	0.02	0.08	0.07	0.28	0.60
1.26	27.83	0.01	0.11	0.12	0.19	0.81
1.15	27.78	0.00	0.07	0.12	0.39	0.80
1.41	28.14	0.02	0.12	0.13	0.20	0.53
1.34	28.25	0.05	0.11	0.08	0.16	0.42
1.59	28.41	0.03	0.09	0.07	0.16	0.41
0.00	28.43	0.02	0.09	0.07	0.09	0.42
1.78	28.19	0.00	0.08	0.12	0.23	0.63
1.95	27.24	0.00	0.09	0.13	0.33	1.02
1.97	26.83	0.00	0.08	0.27	0.24	1.08
1.75	25.96	0.00	0.09	0.24	0.58	2.05
1.95	26.04	0.00	0.10	0.39	0.38	1.53
1.33	27.52	0.01	0.11	0.17	0.21	0.59
2.18	25.77	0.00	0.10	0.43	0.34	1.84
1.73	26.15	0.00	0.08	0.30	0.46	1.52
1.19	27.34	0.03	0.11	0.14	0.06	0.75
1.55	27.60	0.00	0.09	0.07	0.24	0.43
1.77	27.08	0.00	0.09	0.15	0.24	0.88
1.98	26.43	0.00	0.08	0.28	0.39	1.16

1.95	25.59	0.00	0.10	0.45	0.57	1.87
2.00	25.31	0.00	0.10	0.50	0.39	1.95
2.15	25.85	0.00	0.09	0.41	0.32	1.59
2.14	26.29	0.00	0.10	0.32	0.46	1.16
1.33	27.25	0.01	0.11	0.19	0.16	0.58
1.62	27.75	0.00	0.10	0.13	0.14	0.54
1.76	28.00	0.00	0.11	0.09	0.02	0.32
1.12	27.75	0.00	0.09	0.09	0.20	0.81
1.61	27.89	0.00	0.07	0.09	0.06	0.71
1.78	26.02	0.00	0.08	0.30	0.57	1.90
1.48	26.51	0.00	0.09	0.19	0.52	1.31
1.28	27.13	0.00	0.10	0.15	0.46	1.10
1.36	28.06	0.00	0.08	0.13	0.17	0.72
1.28	28.20	0.00	0.11	0.09	0.23	0.58
1.11	28.29	0.00	0.12	0.13	0.19	0.76
1.75	27.91	0.00	0.12	0.06	0.07	0.28
1.65	28.03	0.01	0.12	0.09	0.04	0.36
1.43	27.94	0.00	0.12	0.16	0.14	0.28
1.09	27.90	0.00	0.07	0.09	0.15	0.71
1.17	27.57	0.00	0.09	0.11	0.26	0.81
1.66	27.95	0.01	0.09	0.06	0.18	0.65
1.66	26.35	0.00	0.08	0.33	0.42	1.71
1.75	27.12	0.00	0.09	0.17	0.30	0.82
1.16	27.67	0.00	0.07	0.08	0.30	0.58
1.52	28.15	0.00	0.11	0.13	0.11	0.41
1.28	28.27	0.00	0.10	0.08	0.08	0.33
1.32	27.95	0.00	0.07	0.10	0.50	0.85
1.77	26.38	0.00	0.09	0.33	0.51	1.89
2.40	25.23	0.00	0.08	0.37	0.43	2.67
2.29	25.43	0.00	0.07	0.32	0.63	2.69
2.09	26.34	0.00	0.09	0.32	0.47	1.87
2.44	27.01	0.00	0.11	0.18	0.38	1.20
1.86	27.30	0.00	0.10	0.27	0.21	1.29
1.30	28.38	0.00	0.08	0.09	0.09	0.62
1.07	27.68	0.00	0.13	0.20	0.14	0.53
1.58	27.69	0.00	0.13	0.35	0.12	0.65
1.15	28.30	0.01	0.13	0.17	0.09	0.63
1.39	28.43	0.00	0.11	0.12	0.15	0.57
1.69	28.71	0.00	0.10	0.10	0.06	0.27
1.86	27.30	0.00	0.08	0.23	0.30	1.15
1.90	26.46	0.00	0.09	0.40	0.37	1.80
1.88	27.59	0.00	0.09	0.27	0.34	1.28
1.86	27.78	0.00	0.12	0.27	0.24	0.84
1.55	27.75	0.00	0.13	0.21	0.23	0.98
1.63	27.76	0.00	0.11	0.32	0.12	0.89
1.55	27.47	0.00	0.11	0.33	0.22	1.11
1.67	28.66	0.00	0.10	0.08	0.14	0.22
1.45	28.77	0.00	0.11	0.08	0.23	0.49

1.82	26.07	0.00	0.09	0.29	0.49	2.28
2.00	27.14	0.00	0.10	0.23	0.40	1.15
1.63	28.00	0.00	0.12	0.32	0.29	0.69
1.53	27.56	0.00	0.07	0.29	0.40	1.12
1.56	27.52	0.00	0.13	0.21	0.07	0.85
2.23	26.38	0.00	0.08	0.39	0.43	1.86
2.01	27.46	0.00	0.10	0.27	0.27	1.23
1.83	27.55	0.00	0.09	0.19	0.22	1.21
1.48	28.66	0.00	0.08	0.06	0.17	0.51
1.89	27.70	0.00	0.11	0.34	0.18	0.81
1.73	27.93	0.00	0.13	0.31	0.11	0.70
1.51	27.44	0.00	0.11	0.31	0.32	1.28
2.65	26.90	0.00	0.09	0.34	0.49	1.69
1.43	27.78	0.00	0.08	0.31	0.33	1.02
1.72	26.34	0.00	0.09	0.32	0.30	1.82
1.18	28.07	0.00	0.10	0.14	0.30	0.65
1.36	28.37	0.00	0.08	0.11	0.27	0.78
1.88	27.64	0.00	0.08	0.18	0.30	1.03
1.56	26.90	0.00	0.09	0.29	0.33	1.32
1.60	26.73	0.00	0.12	0.40	0.24	1.27
1.85	26.27	0.00	0.13	0.48	0.26	1.69
2.01	27.38	0.00	0.12	0.35	0.37	1.03
1.68	26.86	0.00	0.12	0.42	0.24	1.09
1.54	27.38	0.00	0.11	0.35	0.21	1.25
1.23	27.61	0.00	0.07	0.11	0.38	0.77
1.16	27.99	0.00	0.08	0.07	0.24	0.67
1.19	27.84	0.00	0.07	0.08	0.16	0.89
1.09	28.08	0.00	0.09	0.10	0.26	0.80
1.08	28.06	0.00	0.07	0.12	0.37	0.81
1.49	27.79	0.00	0.12	0.20	0.19	0.92
1.31	28.08	0.00	0.08	0.09	0.41	0.90
0.91	28.76	0.00	0.04	0.36	0.07	0.01
1.34	27.93	0.00	0.00	0.23	0.00	0.27
1.21	28.34	0.00	0.00	0.29	0.00	0.29
2.29	27.05	0.00	0.11	0.27	0.29	1.12
1.50	28.24	0.00	0.00	0.33	0.01	0.34
1.44	28.00	0.00	0.00	0.30	0.07	0.45
2.19	26.41	0.00	0.11	0.36	0.22	1.62
2.08	26.58	0.00	0.10	0.30	0.34	1.24
1.23	27.91	0.00	0.11	0.11	0.21	0.52
1.42	28.33	0.00	0.11	0.08	0.10	0.61
1.52	28.27	0.00	0.12	0.11	0.19	0.67
1.24	28.95	0.01	0.07	0.05	0.01	0.08
1.91	27.17	0.00	0.10	0.22	0.43	1.34
1.17	28.05	0.00	0.01	0.27	0.00	0.60
1.78	27.02	0.00	0.11	0.33	0.33	1.65
1.75	27.19	0.00	0.11	0.29	0.41	1.29
1.91	27.95	0.00	0.09	0.20	0.19	0.95

2.12	27.58	0.00	0.10	0.24	0.17	1.09
1.90	27.24	0.00	0.11	0.28	0.32	1.43
1.17	28.39	0.00	0.12	0.10	0.19	0.44
1.13	28.39	0.00	0.11	0.12	0.14	0.57
2.11	25.79	0.00	0.08	0.33	0.40	1.66
2.16	27.05	0.00	0.09	0.20	0.16	1.04
2.08	27.18	0.00	0.09	0.21	0.34	0.93
1.85	27.34	0.00	0.07	0.14	0.10	0.81
1.81	27.45	0.00	0.08	0.20	0.17	0.89
1.96	26.43	0.00	0.07	0.26	0.33	1.53
2.08	26.60	0.00	0.06	0.27	0.35	1.68
2.25	26.81	0.00	0.06	0.37	0.34	1.23
2.21	26.99	0.00	0.05	0.29	0.31	1.23
1.85	28.00	0.00	0.07	0.10	0.15	0.75
1.70	28.37	0.00	0.09	0.00	0.09	0.43
1.41	27.97	0.00	0.08	0.09	0.26	0.85
1.40	27.71	0.00	0.07	0.04	0.24	0.88
1.34	27.71	0.01	0.10	0.09	0.45	1.11
1.51	28.06	0.00	0.09	0.03	0.35	0.54
1.46	27.88	0.00	0.07	0.04	0.18	0.81
1.34	28.34	0.00	0.10	0.00	0.33	0.56
1.49	28.02	0.00	0.09	0.00	0.38	0.63
1.62	27.94	0.00	0.08	0.15	0.05	0.77
1.15	28.45	0.00	0.09	0.01	0.30	0.64
1.17	28.32	0.00	0.09	0.04	0.30	0.66
1.54	27.70	0.00	0.08	0.16	0.14	1.06
1.79	28.33	0.00	0.09	0.09	0.12	0.64
1.60	27.93	0.00	0.07	0.18	0.24	0.74
1.13	28.57	0.00	0.13	0.04	0.23	0.38
1.28	28.21	0.01	0.08	0.04	0.41	0.77
1.32	28.77	0.00	0.10	0.00	0.29	0.74
1.49	28.65	0.00	0.10	0.05	0.35	0.55
1.04	28.73	0.01	0.10	0.00	0.18	0.60
1.23	28.73	0.00	0.11	0.10	0.09	0.46
1.28	29.27	0.01	0.08	0.00	0.02	0.16
1.16	29.13	0.01	0.10	0.00	0.17	0.33
1.44	28.80	0.02	0.13	0.04	0.04	0.40
1.73	28.85	0.01	0.09	0.00	0.40	0.39
1.72	28.73	0.00	0.08	0.02	0.29	0.42
1.49	27.86	0.00	0.07	0.11	0.22	0.98
1.67	29.45	0.01	0.09	0.00	0.02	0.21
1.78	29.42	0.01	0.09	0.00	0.12	0.22
1.26	28.54	0.00	0.08	0.00	0.36	0.84
1.59	28.70	0.00	0.09	0.00	0.22	0.59
1.33	28.37	0.00	0.09	0.08	0.19	0.37
1.23	28.08	0.00	0.10	0.02	0.28	0.65
1.29	27.89	0.00	0.08	0.05	0.20	0.70
1.68	28.46	0.00	0.09	0.00	0.20	0.41

1.18	28.55	0.02	0.07	0.00	0.26	0.63
1.44	27.53	0.01	0.08	0.04	0.21	0.93
1.46	28.11	0.00	0.09	0.00	0.23	0.48
1.46	27.49	0.00	0.08	0.06	0.28	0.92
1.38	27.54	0.00	0.07	0.07	0.41	0.90
1.59	28.35	0.01	0.10	0.00	0.13	0.40
1.81	26.07		0.06	0.32	0.35	1.56
1.63	26.57		0.07	0.30	0.32	1.35
1.63	27.02		0.09	0.31	0.27	0.93
1.27	27.72	0.01	0.11	0.04	0.22	0.42
1.72	26.20		0.06	0.30	0.48	1.73
2.04	27.00		0.08	0.29	0.04	1.03
1.93	27.34		0.09	0.21	0.13	0.68
1.82	27.77		0.07	0.06	0.24	0.40
1.68	27.88		0.09	0.08	0.24	0.58
1.35	27.95	0.01	0.11	0.10	0.10	0.47
1.45	27.49		0.06	0.20	0.18	0.88
1.29	27.46		0.07	0.02	0.34	1.02
1.33	27.87		0.07		0.39	0.62
1.59	27.88	0.02	0.09		0.25	0.74
1.64	28.31	0.00	0.09		0.16	0.53
1.26	28.05	0.01	0.09	0.01	0.30	0.62
1.22	28.21		0.08	0.08	0.29	0.89
1.73	27.80		0.09		0.41	0.81
1.67	28.60		0.08		0.20	0.48
1.53	28.10	0.01	0.10		0.12	0.63
1.67	28.55		0.06	0.04	0.25	0.32
1.73	28.56	0.02	0.09		0.16	0.47
1.17	28.33		0.09		0.33	0.84
1.30	28.17	0.01	0.08	0.04	0.34	0.78
1.16	27.91	0.01	0.10		0.42	0.90
1.83	28.64	0.01	0.12	0.04	0.14	0.41
1.67	28.73	0.01	0.13	0.01	0.00	0.38
1.25	28.01	0.02	0.09		0.35	0.75
1.17	27.69	0.00	0.12	0.12	0.27	0.83
1.29	27.83	0.00	0.11	0.00	0.21	0.82
1.62	27.11	0.00	0.11	0.24	0.44	1.14
1.89	27.04	0.00	0.07	0.27	0.35	1.24
1.21	27.91	0.00	0.12	0.13	0.09	0.61
1.83	26.84	0.00	0.06	0.30	0.28	1.38
1.27	28.13	0.00	0.10	0.11	0.05	0.68
1.77	27.52	0.00	0.12	0.18	0.30	1.25
1.59	28.22	0.00	0.12	0.04	0.29	0.53
1.59	28.12	0.01	0.14	0.07	0.25	0.60
1.65	28.17	0.00	0.12	0.18	0.02	0.44
2.07	27.48	0.00	0.10	0.16	0.33	1.07
2.07	27.41	0.00	0.08	0.15	0.29	1.12
1.44	28.02	0.00	0.13	0.17	0.12	0.65

1.30	28.36	0.00	0.14	0.15	0.14	0.38
1.28	28.35	0.01	0.13	0.14	0.07	0.54
1.88	26.52	0.00	0.06	0.28	0.51	1.93
1.38	27.68	0.00	0.11	0.12	0.27	0.99
1.66	26.73	0.00	0.09	0.22	0.50	1.83
1.63	28.15	0.00	0.13	0.11	0.11	0.64
0.31	29.08	0.00	0.04	0.14	0.00	0.13
1.31	28.22	0.00	0.14	0.12	0.03	0.47
1.70	28.76	0.00	0.14	0.03	0.00	0.26
1.62	28.35	0.01	0.14	0.05	0.03	0.44
1.60	27.41	0.00	0.12	0.21	0.08	0.67
1.73	27.48	0.00	0.14	0.03	0.05	0.42
1.31	27.34	0.00	0.12	0.08	0.36	1.02
1.50	27.11	0.00	0.13	0.12	0.35	1.14
1.27	27.69	0.00	0.11	0.03	0.33	0.78
1.43	27.73	0.00	0.12	0.12	0.19	0.90
1.29	27.36	0.00	0.11	0.06	0.20	1.13
1.62	27.79	0.00	0.12	0.07	0.16	0.66
1.53	27.74	0.00	0.13	0.23	0.20	0.46
1.34	27.32	0.00	0.13	0.06	0.33	0.97
1.44	27.25	0.00	0.13	0.10	0.33	0.87
1.58	27.70	0.00	0.12	0.18	0.00	0.58
1.26	27.83	0.00	0.13	0.06	0.27	0.88
1.31	27.18	0.00	0.10	0.22	0.36	0.98
1.68	28.03	0.00	0.13	0.06	0.13	0.27
1.55	27.32	0.00	0.12	0.16	0.22	0.96
1.28	27.51	0.00	0.12	0.16	0.28	0.73
1.29	27.72	0.00	0.11	0.22	0.14	0.88
1.67	27.70	0.00	0.13	0.09	0.19	0.82
1.72	27.20	0.00	0.12	0.21	0.28	1.16
1.47	28.10	0.00	0.14	0.14	0.20	0.42
0.82	29.17	0.00	0.06	0.11	0.02	0.01
1.66	27.45	0.00	0.12	0.24	0.30	0.97
1.62	28.25	0.02	0.13	0.01	0.16	0.28
0.67	28.75	0.00	0.04	0.21	0.13	0.15
1.32	27.70	0.00	0.13	0.19	0.25	0.86
1.21	28.00	0.00	0.12	0.06	0.43	0.93
1.42	26.99	0.00	0.04	0.19	0.55	1.43
1.23	27.58	0.00	0.11	0.22	0.09	0.41
1.70	26.65	0.00	0.06	0.23	0.26	1.32
1.40	27.42	0.00	0.13	0.14	0.24	0.62
1.39	27.51	0.00	0.11	0.14	0.25	0.73
1.21	27.50	0.00	0.12	0.16	0.18	0.72
1.41	27.42	0.00	0.13	0.16	0.16	0.96
1.90	27.42	0.00	0.09	0.21	0.26	0.90
0.87	28.57	0.00	0.05	0.15	0.00	0.00
1.46	26.95	0.00	0.06	0.26	0.42	1.50
0.97	28.52	0.00	0.05	0.19	0.05	0.07

1.75	26.28	0.00	0.06	0.22	0.48	1.83
1.24	28.08	0.00	0.11	0.18	0.09	0.57
1.57	28.06	0.00	0.15	0.13	0.06	0.42
1.53	28.02	0.00	0.13	0.05	0.17	0.59
1.74	27.19	0.00	0.08	0.18	0.08	1.08
1.55	27.29	0.00	0.12	0.17	0.28	1.02
1.51	27.43	0.00	0.13	0.17	0.23	0.84
0.78	28.34	0.01	0.07	0.14	0.02	0.31
1.58	26.56	0.00	0.06	0.17	0.49	1.73
1.92	26.30	0.00	0.06	0.23	0.74	2.10
1.97	27.24	0.00	0.08	0.15	0.39	1.05
1.74	28.23	0.00	0.13	0.06	0.24	0.59
1.72	26.35	0.00	0.07	0.20	0.47	1.77
1.66	27.71	0.00	0.12	0.16	0.17	1.09
1.74	28.18	0.01	0.12	0.04	0.10	0.63
1.53	28.17	0.00	0.12	0.16	0.18	0.38
1.64	28.45	0.00	0.13	0.12	0.09	0.38
1.42	28.34	0.00	0.14	0.05	0.14	0.85
1.70	27.95	0.00	0.10	0.11	0.12	0.58
1.49	25.89	0.00	0.06	0.27	0.40	1.54
1.79	28.30	0.00	0.13	0.07	0.00	0.39
1.67	27.87	0.00	0.12	0.14	0.02	0.46
1.57	27.83	0.00	0.12	0.22	0.07	0.57
1.72	27.97	0.00	0.12	0.07	0.28	0.57
1.47	27.60	0.00	0.11	0.08	0.41	0.97
1.09	28.12	0.00	0.12	0.04	0.31	0.87
1.34	27.42	0.00	0.11	0.09	0.36	1.14
1.29	27.63	0.00	0.12	0.17	0.22	0.74
1.36	27.22	0.00	0.13	0.24	0.29	0.98
1.36	27.60	0.00	0.11	0.25	0.18	0.89
1.60	27.88	0.00	0.12	0.24	0.20	0.55
1.52	27.88	0.00	0.12	0.17	0.08	0.54
1.57	28.06	0.00	0.12	0.21	0.00	0.53
1.43	27.75	0.00	0.12	0.23	0.08	0.66
1.53	27.71	0.02	0.13	0.12	0.05	0.52
1.52	27.75	0.02	0.14	0.12	0.11	0.58
1.76	28.18	0.00	0.12	0.12	0.09	0.38
1.40	26.99	0.00	0.13	0.50	0.08	0.78
1.27	27.36	0.00	0.12	0.40	0.17	0.66
1.32	27.22	0.00	0.14	0.47	0.44	0.67
1.63	26.90	0.00	0.11	0.81	0.56	0.60
1.46	26.84	0.00	0.11	0.81	0.54	0.92
1.68	27.21	0.00	0.12	0.47	0.60	0.63
1.42	26.87	0.00	0.11	0.83	0.60	0.73
1.45	27.35	0.00	0.12	0.50	0.49	0.66
1.46	27.53	0.00	0.11	0.48	0.42	0.53
1.09	28.05	0.00	0.10	0.38	0.30	0.13
1.77	27.56	0.00	0.14	0.33	0.52	0.43

1.10	27.46	0.00	0.13	0.47	0.31	0.00	0.58
1.20	27.60	0.00	0.12	0.51	0.31	0.11	0.47
1.44	27.86	0.00	0.11	0.32	0.27	0.10	0.34
1.38	27.89	0.00	0.12	0.32	0.28	0.04	0.37
1.14	27.86	0.00	0.10	0.45	0.30	0.26	0.38
1.23	28.92	0.01	0.07	0.07	0.01	0.00	0.00
1.26	29.01	0.00	0.07	0.02	0.05	0.00	0.04
1.51	27.03	0.00	0.11	0.66	0.54	0.20	0.65
1.51	26.91	0.00	0.12	0.74	0.63	0.09	0.66
1.20	27.63	0.00	0.14	0.49	0.36	0.20	0.48
1.35	27.60	0.00	0.12	0.61	0.43	0.13	0.59
1.22	27.64	0.00	0.12	0.64	0.37	0.00	0.31
1.14	27.91	0.00	0.12	0.59	0.31	0.10	0.48
1.75	27.79	0.00	0.13	0.27	0.40	0.12	0.31
1.62	27.29	0.00	0.12	0.47	0.50	0.15	0.39
1.15	28.28	0.00	0.09	0.28	0.16	0.00	0.14
1.02	28.32	0.00	0.11	0.47	0.19	0.00	0.09
1.34	28.54	0.00	0.11	0.20	0.19	0.00	0.18
1.23	28.52	0.00	0.06	0.21	0.17	0.14	0.19
1.40	28.43	0.00	0.12	0.27	0.17	0.04	0.20
1.23	28.32	0.00	0.13	0.19	0.20	0.12	0.20
1.32	28.22	0.00	0.12	0.36	0.19	0.05	0.36
1.35	28.38	0.00	0.12	0.25	0.17	0.00	0.14
1.25	28.39	0.00	0.10	0.29	0.17	0.03	0.30
1.20	28.49	0.00	0.12	0.38	0.14	0.01	0.12
1.33	28.68	0.00	0.12	0.23	0.20	0.26	0.22
1.13	28.63	0.00	0.11	0.26	0.09	0.13	0.24
1.53	28.63	0.00	0.12	0.23	0.14	0.00	0.16
1.37	28.68	0.00	0.10	0.15	0.00	0.04	0.44
1.01	28.96	0.00	0.07	0.16	0.03	0.06	0.09
0.93	28.86	0.02	0.09	0.17	0.09	0.18	0.04
1.33	28.89	0.00	0.10	0.26	0.09	0.02	0.03
0.91	28.93	0.00	0.08	0.25	0.06	0.00	0.20
1.33	28.33	0.00	0.06	0.09	0.02	0.10	0.11
1.31	28.18	0.00	0.17	0.00	0.35	0.16	0.00
1.31	28.76	0.00	0.11	0.24	0.22	0.00	0.35
1.42	27.71	0.00	0.10	0.34	0.37	0.00	0.44
1.35	27.21	0.00	0.09	0.24	0.46	0.04	0.65
1.68	27.25	0.00	0.18	0.29	0.55	0.18	0.42
1.74	26.58	0.00	0.14	0.35	0.62	0.22	0.83
1.68	27.03	0.00	0.22	0.74	0.79	0.12	1.12
1.83	25.61	0.00	0.18	0.86	1.02	0.16	1.13
1.85	25.85	0.00	0.17	0.74	0.86	0.13	1.11
1.41	27.17	0.00	0.11	0.31	0.57	0.29	0.74
1.57	26.29	0.00	0.14	0.39	0.72	0.06	0.82
1.61	25.23	0.00	0.13	0.44	0.71	0.13	0.74
1.58	26.35	0.00	0.13	0.47	0.60	0.13	1.10
1.24	27.58	0.00	0.10	0.34	0.39	0.38	0.37

1.59	27.11	0.00	0.11	0.37	0.45	0.27	0.52
1.43	28.41	0.00	0.09	0.20	0.07	0.06	0.04
1.42	28.23	0.00	0.08	0.16	0.07	0.00	0.00
1.62	26.19	0.01	0.17	0.57	0.67	0.18	1.23
1.31	27.75	0.00	0.12	0.40	0.25	0.07	0.07
1.42	27.77	0.00	0.14	0.28	0.48	0.09	0.53
1.12	28.16	0.00	0.14	0.39	0.15	0.00	0.58
2.46	25.76	0.00	0.10	0.37	0.50	0.17	0.36
1.76	26.82	0.00	0.12	0.27	0.55	0.15	0.72
2.04	26.28	0.00	0.18	0.37	0.89	0.07	0.77
1.56	26.57	0.00	0.12	0.37	0.62	0.20	0.66
1.75	27.10	0.00	0.12	0.29	0.61	0.07	0.85
2.03	26.03	0.00	0.19	0.49	0.76	0.11	0.93
1.54	26.66	0.00	0.13	0.69	0.58	0.27	0.83
1.46	26.96	0.00	0.11	0.55	0.58	0.12	0.71
1.40	26.94	0.00	0.13	0.42	0.54	0.20	0.64
1.50	26.68	0.00	0.12	0.65	0.67	0.15	0.72
1.74	27.16	0.00	0.15	0.28	0.44	0.04	0.55
1.46	27.33	0.00	0.14	0.39	0.46	0.04	0.55
1.39	27.75	0.00	0.11	0.25	0.21	0.00	0.64
1.49	26.99	0.00	0.15	0.53	0.43	0.02	0.79
1.36	27.14	0.00	0.12	0.63	0.45	0.20	0.71
1.32	27.56	0.00	0.12	0.65	0.33	0.17	0.34
1.13	27.73	0.00	0.12	0.50	0.36	0.04	0.43
1.07	27.73	0.00	0.12	0.56	0.27	0.13	0.39
1.18	28.65	0.01	0.03	0.05	0.00	0.17	0.06
1.42	28.51	0.00	0.10	0.11	0.08	0.00	0.01
1.43	28.35	0.00	0.11	0.19	0.19	0.00	0.13
1.54	28.03	0.00	0.09	0.27	0.21	0.00	0.22
1.47	27.79	0.00	0.12	0.50	0.24	0.24	0.33
1.20	27.32	0.00	0.11	0.75	0.38	0.32	0.84
1.27	27.58	0.01	0.09	0.80	0.30	0.02	0.53
1.25	27.23	0.00	0.11	0.73	0.37	0.21	0.37
1.26	28.53	0.00	0.04	0.06	0.00	0.14	0.00
1.32	28.61	0.02	0.08	0.08	0.05	0.00	0.01
1.36	27.81	0.00	0.12	0.29	0.25	0.00	0.29
2.17	22.15	0.04	0.10	0.59	0.39	0.12	0.36
1.35	27.45	0.00	0.14	0.79	0.39	0.02	0.55
1.35	27.20	0.00	0.14	0.54	0.37	0.00	0.32
1.47	27.83	0.00	0.12	0.34	0.26	0.23	0.33
1.12	27.62	0.01	0.13	0.56	0.27	0.17	0.14
1.34	27.84	0.00	0.14	0.33	0.23	0.00	0.28
1.42	29.50	0.01	0.10	0.04	0.00	0.04	0.05
1.45	29.51	0.00	0.11	0.08	0.00	0.14	0.08
1.35	29.57	0.00	0.10	0.08	0.00	0.00	0.00
1.45	29.46	0.00	0.12	0.13	0.02	0.06	0.00
1.08	29.59	0.01	0.05	0.05	0.00	0.00	0.01
1.44	29.35	0.00	0.11	0.12	0.02	0.11	0.04

1.50	29.15	0.01	0.12	0.15	0.02	0.00	0.17
1.46	29.44	0.00	0.08	0.06	0.05	0.00	0.00
1.19	29.52	0.00	0.07	0.05	0.00	0.12	0.01
1.12	29.52	0.00	0.06	0.15	0.06	0.00	0.05
1.49	29.04	0.00	0.13	0.32	0.08	0.00	0.09
1.64	29.36	0.00	0.15	0.17	0.07	0.05	0.16
1.33	28.71	0.00	0.13	0.55	0.26	0.08	0.12
1.18	29.63	0.00	0.09	0.09	0.00	0.00	0.00
1.06	29.47	0.00	0.11	0.19	0.01	0.00	0.06
0.94	29.33	0.00	0.10	0.20	0.01	0.03	0.10
1.25	29.45	0.00	0.11	0.16	0.04	0.01	0.13
1.57	29.29	0.00	0.14	0.16	0.07	0.09	0.03
1.48	29.40	0.00	0.11	0.12	0.07	0.20	0.00
1.52	28.88	0.00	0.15	0.26	0.24	0.00	0.22
1.36	29.07	0.00	0.15	0.33	0.13	0.00	0.18
1.21	29.30	0.00	0.12	0.25	0.08	0.00	0.06
1.69	27.70	0.00	0.18	0.27	0.58	0.00	0.49
1.81	27.48	0.00	0.16	0.26	0.66	0.18	0.82
0.96	29.40	0.01	0.12	0.17	0.04	0.00	0.01
1.29	28.56	0.00	0.15	0.44	0.32	0.00	0.32
1.42	29.02	0.00	0.14	0.23	0.10	0.00	0.04
1.42	29.10	0.01	0.13	0.19	0.04	0.09	0.00
1.42	29.50	0.01	0.10	0.00	0.04	0.04	0.05
1.45	29.51	0.00	0.11	0.00	0.08	0.14	0.08
1.35	29.57	0.00	0.10	0.00	0.08	0.00	0.00
1.45	29.46	0.00	0.12	0.02	0.13	0.06	0.00
1.08	29.59	0.01	0.05	0.00	0.05	0.00	0.01
1.44	29.35	0.00	0.11	0.02	0.12	0.11	0.04
1.50	29.15	0.01	0.12	0.02	0.15	0.00	0.17
1.46	29.44	0.00	0.08	0.05	0.06	0.00	0.00
1.19	29.52	0.00	0.07	0.00	0.05	0.12	0.01
1.12	29.52	0.00	0.06	0.06	0.15	0.00	0.05
1.49	29.04	0.00	0.13	0.08	0.32	0.00	0.09
1.64	29.36	0.00	0.15	0.07	0.17	0.05	0.16
1.18	29.63	0.00	0.09	0.00	0.09	0.00	0.00
1.33	28.71	0.00	0.13	0.26	0.55	0.08	0.12
1.06	29.47	0.00	0.11	0.01	0.19	0.00	0.06
0.94	29.33	0.00	0.10	0.01	0.20	0.03	0.10
1.25	29.45	0.00	0.11	0.04	0.16	0.01	0.13
1.57	29.29	0.00	0.14	0.07	0.16	0.09	0.03
1.48	29.40	0.00	0.11	0.07	0.12	0.20	0.00
1.52	28.88	0.00	0.15	0.24	0.26	0.00	0.22
1.36	29.07	0.00	0.15	0.13	0.33	0.00	0.18
1.21	29.30	0.00	0.12	0.08	0.25	0.00	0.06
1.69	27.70	0.00	0.18	0.58	0.27	0.00	0.49
1.81	27.48	0.00	0.16	0.66	0.26	0.18	0.82
0.96	29.40	0.01	0.12	0.04	0.17	0.00	0.01
1.29	28.56	0.00	0.15	0.32	0.44	0.00	0.32

1.42	29.02	0.00	0.14	0.10	0.23	0.00	0.04
1.42	29.10	0.01	0.13	0.04	0.19	0.09	0.00
1.62	27.65	0.00	0.10	0.12	0.28	0.59	1.23
1.62	27.65	0.00	0.10	0.28	0.12	0.59	1.23
1.47	28.05	0.00	0.11	0.10	0.19	0.13	0.74
1.47	28.05	0.00	0.11	0.19	0.10	0.13	0.74
1.83	28.13	0.00	0.10	0.10	0.07	0.26	0.74
1.83	28.13	0.00	0.10	0.07	0.10	0.26	0.74
1.99	27.98	0.02	0.10	0.10	0.11	0.21	0.81
1.43	27.15	0.01	0.12	0.16	0.22	0.53	1.33
1.02	28.38	0.00	0.03	0.21	0.07	0.10	0.39
1.02	28.38	0.00	0.03	0.07	0.21	0.10	0.39
1.10	27.72	0.00	0.06	0.29	0.10	0.12	0.68
2.01	27.96	0.00	0.14	0.17	0.19	0.36	0.68
2.01	27.96	0.00	0.14	0.19	0.17	0.36	0.68
1.49	28.25	0.00	0.12	0.11	0.20	0.45	1.09
1.49	28.25	0.00	0.12	0.20	0.11	0.45	1.09
1.53	28.44	0.00	0.13	0.07	0.10	0.29	0.73
1.53	28.44	0.00	0.13	0.10	0.07	0.29	0.73
1.70	28.28	0.00	0.11	0.11	0.16	0.06	0.59
1.70	28.28	0.00	0.11	0.16	0.11	0.06	0.59
1.33	27.93	0.00	0.11	0.10	0.13	0.32	0.94
1.33	27.93	0.00	0.11	0.13	0.10	0.32	0.94
2.13	28.46	0.00	0.11	0.04	0.03	0.15	0.66
1.81	28.28	0.00	0.11	0.11	0.03	0.41	0.82
1.81	28.28	0.00	0.11	0.03	0.11	0.41	0.82
2.09	27.53	0.00	0.10	0.23	0.18	0.48	1.17
2.09	27.53	0.00	0.10	0.18	0.23	0.48	1.17
1.69	26.65	0.00	0.07	0.29	0.29	0.82	1.90
1.80	28.19	0.00	0.11	0.09	0.09	0.46	0.78
1.67	28.34	0.00	0.11	0.11	0.10	0.36	0.87
1.67	28.34	0.00	0.11	0.10	0.11	0.36	0.87
2.16	27.53	0.00	0.09	0.19	0.08	0.34	1.11
2.16	27.53	0.00	0.09	0.08	0.19	0.34	1.11
2.29	27.14	0.00	0.09	0.12	0.38	0.31	1.23
1.88	28.78	0.00	0.11	0.02	0.08	0.07	0.39
1.59	28.13	0.00	0.10	0.17	0.20	0.31	0.78
1.59	28.13	0.00	0.10	0.20	0.17	0.31	0.78
1.70	28.77	0.00	0.12	0.04	0.09	0.20	0.56
1.70	28.77	0.00	0.12	0.09	0.04	0.20	0.56
1.61	28.31	0.00	0.12	0.14	0.12	0.16	0.69
1.61	28.31	0.00	0.12	0.12	0.14	0.16	0.69
1.50	27.42	0.00	0.11	0.16	0.26	0.41	1.82
1.50	27.42	0.00	0.11	0.26	0.16	0.41	1.82
1.60	27.60	0.00	0.10	0.13	0.23	0.40	1.40
1.60	27.60	0.00	0.10	0.23	0.13	0.40	1.40

1.52	28.00	0.00	0.11	0.16	0.19	0.18	0.77
1.52	28.00	0.00	0.11	0.19	0.16	0.18	0.77
1.93	28.26	0.00	0.11	0.13	0.08	0.25	0.74
1.93	28.26	0.00	0.11	0.08	0.13	0.25	0.74
1.76	26.97	0.00	0.07	0.26	0.26	0.63	2.02
1.88	28.31	0.00	0.09	0.14	0.09	0.35	0.66
1.88	28.31	0.00	0.09	0.09	0.14	0.35	0.66
2.06	28.03	0.00	0.10	0.10	0.18	0.27	0.86
2.26	27.49	0.00	0.10	0.12	0.34	0.27	1.24
1.14	28.58	0.00	0.10	0.08	0.13	0.13	0.70
1.14	28.58	0.00	0.10	0.13	0.08	0.13	0.70
1.76	28.55	0.00	0.13	0.07	0.13	0.22	0.60
1.93	28.08	0.00	0.10	0.07	0.11	0.37	0.88
1.55	27.20	0.00	0.09	0.22	0.14	0.75	1.97
1.91	27.80	0.00	0.10	0.15	0.25	0.41	1.15
1.36	28.35	0.00	0.10	0.12	0.07	0.15	0.61
1.58	28.84	0.01	0.14	0.08	0.16	0.23	0.41
1.66	28.81	0.00	0.11	0.10	0.11	0.16	0.60
1.83	28.22	0.00	0.12	0.19	0.20	0.23	0.67
1.36	28.68	0.01	0.17	0.07	0.14	0.02	0.55
1.71	27.99	0.00	0.11	0.23	0.24	0.42	0.85
1.64	28.05	0.00	0.12	0.19	0.20	0.41	1.02
1.86	27.99	0.00	0.12	0.26	0.17	0.28	0.67
2.55	27.84	0.02	0.19	0.10	0.91	0.29	1.15
1.57	28.45	0.00	0.11	0.07	0.15	0.25	0.76
1.55	27.82	0.00	0.12	0.27	0.23	0.35	1.12
1.80	27.83	0.00	0.11	0.19	0.24	0.33	1.10
1.83	27.86	0.00	0.11	0.24	0.23	0.24	1.05
2.33	28.44	0.00	0.15	0.03	0.14	0.20	0.71
2.25	27.79	0.00	0.13	0.17	0.69	0.28	1.31
2.35	27.35	0.00	0.14	0.10	0.87	0.55	1.67
1.76	28.09	0.00	0.10	0.20	0.19	0.33	0.65
1.58	27.95	0.00	0.10	0.22	0.27	0.32	1.03
1.62	27.97	0.00	0.12	0.13	0.19	0.43	0.90
1.93	28.51	0.01	0.15	0.01	0.06	0.23	0.50
1.70	28.19	0.00	0.11	0.17	0.27	0.27	0.76
1.68	27.89	0.00	0.12	0.16	0.19	0.38	0.95
2.61	27.73	0.03	0.16	0.09	1.61	0.46	1.33
1.46	28.15	0.00	0.12	0.29	0.27	0.38	0.88
1.87	28.44	0.00	0.13	0.19	0.22	0.21	0.76
1.59	28.09	0.00	0.11	0.15	0.21	0.38	1.09
1.91	28.52	0.02	0.14	0.09	0.13	0.22	0.96
1.66	27.83	0.00	0.10	0.23	0.22	0.30	0.92
1.39	28.58	0.00	0.12	0.17	0.24	0.12	0.48
1.43	28.83	0.01	0.13	0.08	0.10	0.18	0.59
1.51	28.11	0.00	0.10	0.23	0.23	0.27	0.96
1.73	28.35	0.02	0.11	0.10	0.24	0.12	0.83
1.92	28.00	0.00	0.14	0.14	0.40	0.25	0.89

1.92	28.31	0.01	0.09	0.09	0.02	0.02	0.24
1.52	28.16	0.00	0.09	0.13	0.08	0.00	0.38
1.55	27.98	0.00	0.10	0.17	0.04	0.14	0.26
1.57	27.58	0.00	0.10	0.17	0.14	0.14	0.66
1.59	27.79	0.01	0.07	0.21	0.09	0.22	0.59
1.45	26.91	0.00	0.08	0.29	0.13	0.29	1.16
2.00	27.07	0.00	0.10	0.21	0.19	0.21	1.15
2.07	26.64	0.00	0.08	0.26	0.21	0.30	1.16
1.81	26.48	0.00	0.08	0.28	0.21	0.34	1.39
1.60	26.75	0.00	0.07	0.28	0.25	0.31	1.42
1.71	26.32	0.00	0.08	0.34	0.17	0.44	1.55
1.80	27.07	0.00	0.09	0.18	0.14	0.16	1.06
1.31	27.53	0.00	0.07	0.27	0.10	0.11	0.57
1.38	27.53	0.00	0.09	0.24	0.12	0.14	0.67
1.91	26.02	0.00	0.05	0.44	0.24	0.40	1.74
1.44	27.20	0.00	0.09	0.26	0.14	0.26	0.74
1.63	26.05	0.00	0.07	0.35	0.21	0.52	1.76
2.15	25.91	0.00	0.07	0.49	0.22	0.47	1.77
1.77	27.24	0.00	0.08	0.23	0.21	0.21	1.16
1.72	28.13	0.00	0.10	0.07	0.03	0.10	0.33
1.70	28.31	0.00	0.09	0.08	0.06	0.01	0.19
1.43	27.60	0.00	0.08	0.33	0.15	0.09	0.63
1.75	28.04	0.00	0.09	0.12	0.04	0.17	0.49
1.53	27.04	0.00	0.07	0.24	0.04	0.21	0.93
1.65	27.69	0.01	0.09	0.11	0.01	0.31	0.88
1.60	26.60	0.00	0.08	0.39	0.20	0.34	1.34
2.03	25.44	0.00	0.06	0.32	0.59	0.13	1.91
1.31	26.78	0.00	0.06	0.27	0.26	0.21	1.33
1.35	27.00	0.00	0.08	0.20	0.15	0.40	1.06
1.91	28.36	0.01	0.08	0.09	0.01	0.00	0.13
1.55	27.47	0.00	0.07	0.26	0.18	0.18	0.66
1.50	26.92	0.00	0.09	0.16	0.17	0.13	1.18
1.64	27.24	0.00	0.06	0.20	0.17	0.07	0.57
1.56	27.56	0.00	0.10	0.18	0.06	0.18	0.44
1.69	26.90	0.00	0.09	0.15	0.15	0.21	1.11
1.61	26.13	0.00	0.08	0.35	0.18	0.33	1.65
1.48	26.40	0.00	0.06	0.27	0.21	0.25	1.39
1.55	26.23	0.00	0.08	0.44	0.21	0.46	1.44
1.55	27.11	0.00	0.08	0.24	0.14	0.17	0.96
1.63	27.81	0.00	0.08	0.13	0.13	0.12	0.52
1.73	27.86	0.00	0.09	0.16	0.02	0.00	0.36
1.10	27.53	0.00	0.09	0.14	0.13	0.10	0.69
1.63	26.90	0.00	0.09	0.17	0.14	0.25	1.26
1.63	26.49	0.00	0.07	0.39	0.19	0.51	1.37
1.18	27.22	0.00	0.06	0.16	0.09	0.04	0.81
1.40	26.95	0.00	0.08	0.23	0.19	0.28	0.95
1.55	27.62	0.00	0.10	0.19	0.14	0.46	0.68
1.26	27.17	0.00	0.09	0.37	0.12	0.16	0.76

1.66	27.91	0.01	0.07	0.18	0.11	0.32	0.24
1.10	27.79	0.00	0.07	0.20	0.09	0.00	0.51
1.15	27.63	0.01	0.11	0.13	0.03	0.01	0.38
1.17	27.63	0.00	0.09	0.13	0.03	0.05	0.53
1.67	27.33	0.00	0.11	0.13	0.08	0.34	0.58
1.53	27.86	0.00	0.11	0.11	0.16	0.05	0.58
1.91	27.51	0.01	0.10	0.18	0.07	0.07	0.67
1.85	26.60	0.00	0.06	0.41	0.18	0.23	1.37
1.51	26.89	0.00	0.09	0.27	0.16	0.39	1.20
1.44	27.49	0.00	0.08	0.24	0.12	0.31	0.50
1.37	26.95	0.00	0.07	0.32	0.17	0.20	1.20
1.60	27.39	0.00	0.09	0.23	0.17	0.11	0.88
1.40	28.41	0.00	0.04	0.00	0.01	0.00	0.16
1.70	26.48	0.01	0.07	0.32	0.16	0.45	1.37
1.48	27.21	0.00	0.08	0.19	0.09	0.28	0.64
1.61	27.82	0.00	0.08	0.16	0.08	0.00	0.46
1.68	28.13	0.00	0.11	0.08	0.03	0.18	0.04
1.41	27.87	0.01	0.11	0.16	0.10	0.18	0.57
1.55	27.88	0.01	0.10	0.16	0.14	0.23	0.27
1.71	28.23	0.00	0.09	0.03	0.03	0.15	0.29
1.56	27.90	0.00	0.10	0.20	0.08	0.00	0.46
1.67	26.73	0.00	0.09	0.29	0.16	0.37	1.39
1.84	26.35	0.00	0.06	0.29	0.15	0.62	1.40
5.39	21.94	0.00	0.05	0.18	0.09	0.15	0.41
1.53	26.16	0.00	0.06	0.27	0.19	0.40	1.64
1.45	28.06	0.02	0.10	0.16	0.02	0.04	0.36
1.90	26.68	0.00	0.11	0.21	0.22	0.50	1.14
1.78	26.45	0.00	0.08	0.20	0.17	0.34	1.63
1.51	27.32	0.00	0.09	0.14	0.04	0.23	1.00
1.91	26.80	0.00	0.08	0.20	0.13	0.34	0.97
2.02	26.18	0.00	0.07	0.25	0.19	0.60	1.25
1.88	26.80	0.01	0.08	0.19	0.22	0.17	1.37
1.99	26.77	0.00	0.06	0.22	0.19	0.38	0.83
1.64	27.32	0.01	0.11	0.21	0.11	0.27	0.77
1.64	26.52	0.00	0.06	0.25	0.15	0.50	1.54
1.28	27.76	0.00	0.10	0.17	0.07	0.06	0.62
1.82	27.05	0.00	0.12	0.17	0.15	0.28	0.95
1.68	26.01	0.00	0.08	0.32	0.26	0.33	1.59
0.77	27.86	0.00	0.04	0.14	0.04	0.06	0.32
1.59	26.15	0.00	0.07	0.26	0.21	0.27	1.59
1.77	26.71	0.00	0.09	0.11	0.19	0.24	1.12
1.80	27.79	0.00	0.08	0.15	0.07	0.20	0.55
1.92	26.83	0.00	0.10	0.12	0.15	0.15	1.09
1.39	26.95	0.00	0.06	0.22	0.17	0.40	1.00
1.30	27.36	0.00	0.09	0.29	0.16	0.16	0.64
1.33	27.28	0.00	0.07	0.26	0.16	0.16	1.05
1.32	27.81	0.02	0.07	0.27	0.12	0.14	0.52
1.47	27.02	0.00	0.08	0.23	0.14	0.24	0.88

1.38	27.62	0.00	0.10	0.16	0.09	0.17	0.47
1.31	27.18	0.00	0.07	0.27	0.17	0.18	0.75
1.28	27.85	0.01	0.10	0.25	0.07	0.12	0.42
1.24	27.75	0.01	0.08	0.27	0.10	0.04	0.38
1.32	27.51	0.00	0.09	0.23	0.13	0.17	0.58
1.56	26.79	0.00	0.08	0.31	0.21	0.26	1.20
1.35	27.99	0.01	0.11	0.09	0.03	0.18	0.37
1.66	26.63	0.00	0.06	0.27	0.16	0.42	1.29
1.67	26.54	0.00	0.09	0.28	0.15	0.46	1.15
1.47	27.34	0.01	0.10	0.16	0.07	0.21	0.60
1.68	26.64	0.00	0.09	0.26	0.17	0.45	1.13
1.68	27.46	0.00	0.08	0.16	0.15	0.05	0.46
1.58	27.69	0.00	0.09	0.20	0.08	0.12	0.40
1.92	26.79	0.00	0.08	0.18	0.15	0.20	1.11
1.96	26.21	0.00	0.09	0.33	0.17	0.51	1.44
1.31	27.25	0.00	0.11	0.20	0.11	0.22	0.58
1.99	26.16	0.00	0.08	0.34	0.18	0.44	1.38
1.63	26.97	0.00	0.09	0.21	0.12	0.29	0.99
1.19	27.48	0.02	0.10	0.17	0.13	0.12	0.62
1.64	27.39	0.00	0.07	0.22	0.15	0.19	0.47
1.24	27.50	0.00	0.08	0.22	0.12	0.14	0.65
1.63	27.84	0.00	0.09	0.22	0.10	0.03	0.54
1.90	26.87	0.00	0.09	0.14	0.16	0.26	0.89
2.06	25.99	0.00	0.11	0.32	0.22	0.20	1.59
2.01	27.12	0.00	0.09	0.10	0.11	0.22	0.97
1.26	27.69	0.01	0.09	0.16	0.08	0.01	0.43
2.06	26.98	0.00	0.07	0.15	0.13	0.23	1.03
1.56	27.67	0.01	0.10	0.12	0.07	0.27	0.41
2.06	25.89	0.00	0.08	0.42	0.27	0.00	1.63
1.50	27.72	0.00	0.08	0.29	0.08	0.16	0.34
1.47	27.71	0.00	0.11	0.30	0.12	0.12	0.28
1.98	25.70	0.00	0.08	0.32	0.27	0.43	1.72
1.71	26.65	0.00	0.07	0.18	0.21	0.30	1.25
1.34	27.44	0.00	0.08	0.30	0.15	0.11	0.66
1.70	28.02	0.00	0.08	0.14	0.00	0.12	0.38
1.41	27.48	0.00	0.08	0.30	0.13	0.08	0.58
1.36	27.38	0.00	0.09	0.23	0.13	0.18	0.77
1.81	26.24	0.00	0.07	0.22	0.29	0.30	1.40
1.66	26.85	0.00	0.08	0.17	0.15	0.24	1.21
1.71	27.01	0.00	0.07	0.20	0.18	0.22	0.92
1.40	27.51	0.00	0.10	0.16	0.07	0.22	0.38
1.22	28.03	0.00	0.11	0.24	0.11	0.07	0.28
1.76	26.49	0.00	0.07	0.16	0.22	0.31	1.14
1.22	27.60	0.00	0.08	0.19	0.06	0.21	0.87
1.37	26.99	0.00	0.09	0.25	0.21	0.22	1.02
1.86	26.78	0.00	0.09	0.14	0.03	0.61	1.33
1.22	27.39	0.00	0.09	0.13	0.05	0.20	0.90
1.18	27.90	0.00	0.08	0.27	0.08	0.01	0.22

1.90	26.74	0.00	0.07	0.22	0.25	0.36	0.98
1.85	26.73	0.00	0.07	0.22	0.22	0.48	1.19
1.60	27.76	0.00	0.10	0.19	0.02	0.17	0.48
1.60	26.76	0.01	0.06	0.11	0.07	0.40	1.33
1.82	26.67	0.00	0.07	0.12	0.08	0.46	1.34
1.79	26.59	0.00	0.07	0.15	0.23	0.40	1.16
1.82	26.50	0.00	0.08	0.14	0.26	0.18	1.13
1.53	27.30	0.00	0.10	0.12	0.11	0.33	0.70
1.37	27.37	0.00	0.08	0.18	0.06	0.17	0.93
1.85	27.43	0.00	0.09	0.09	0.07	0.24	0.71
1.59	27.04	0.00	0.09	0.18	0.17	0.36	0.87
1.37	27.35	0.00	0.08	0.18	0.14	0.16	0.69
1.29	27.48	0.00	0.08	0.24	0.15	0.02	0.80
1.40	27.41	0.00	0.08	0.18	0.07	0.24	0.67
1.65	26.12	0.00	0.07	0.31	0.24	0.35	1.34
1.42	26.34	0.00	0.07	0.24	0.20	0.45	1.28
1.18	27.47	0.00	0.07	0.17	0.03	0.15	0.57
1.34	27.26	0.00	0.07	0.09	0.10	0.14	0.72
1.73	27.66	0.00	0.10	0.13	0.00	0.17	0.42
1.23	27.39	0.00	0.09	0.36	0.14	0.24	0.52
1.37	26.91	0.00	0.08	0.17	0.20	0.35	0.91
1.50	26.73	0.00	0.07	0.26	0.18	0.27	1.16
1.63	26.09	0.00	0.06	0.32	0.23	0.39	1.57
1.27	27.18	0.00	0.07	0.30	0.18	0.19	0.86
1.31	27.22	0.00	0.07	0.27	0.16	0.19	0.70
1.37	27.32	0.00	0.09	0.27	0.14	0.14	0.63
1.28	27.49	0.00	0.08	0.31	0.12	0.17	0.58
1.61	26.60	0.02	0.09	0.23	0.21	0.38	1.30
1.38	26.29	0.00	0.09	0.24	0.23	0.33	1.29
1.33	27.27	0.01	0.09	0.29	0.18	0.06	0.68
1.20	27.23	0.00	0.08	0.31	0.15	0.00	0.67
1.26	27.19	0.01	0.08	0.26	0.13	0.13	0.70
1.27	27.50	0.01	0.09	0.26	0.14	0.20	0.47
0.70	28.22	0.01	0.04	0.19	0.13	0.07	0.04
0.86	27.79	0.02	0.02	0.24	0.14	0.00	0.26
0.96	27.62	0.01	0.03	0.28	0.14	0.22	0.58
1.25	27.22	0.03	0.07	0.27	0.15	0.09	0.54
1.43	26.86	0.00	0.08	0.20	0.17	0.17	0.81
0.80	28.02	0.01	0.08	0.23	0.01	0.14	0.26
1.38	26.94	0.00	0.08	0.26	0.18	0.12	0.83
1.39	26.80	0.00	0.07	0.23	0.21	0.31	0.90
1.14	27.27	0.02	0.10	0.18	0.14	0.10	0.65
1.77	27.71	0.00	0.08	0.11	0.04	0.12	0.50
1.33	27.62	0.01	0.09	0.17	0.05	0.04	0.55
1.32	27.09	0.03	0.10	0.22	0.21	0.35	0.95
1.15	27.66	0.02	0.07	0.24	0.14	0.09	0.49
1.59	27.68	0.01	0.09	0.16	0.03	0.23	0.51
1.91	26.62	0.00	0.07	0.16	0.21	0.36	1.04

1.22	27.42	0.01	0.08	0.17	0.01	0.12	0.79
1.32	26.81	0.00	0.08	0.24	0.18	0.13	1.00
1.33	27.54	0.01	0.10	0.15	0.02	0.18	0.57
1.12	27.45	0.01	0.08	0.12	0.11	0.13	0.45
1.26	27.09	0.00	0.09	0.18	0.16	0.24	0.75
1.62	27.65	0.00	0.10	0.28	0.12	0.59	1.23
1.47	28.05	0.00	0.11	0.19	0.10	0.13	0.74
1.83	28.13	0.00	0.10	0.07	0.10	0.26	0.74
1.02	28.38	0.00	0.03	0.07	0.21	0.10	0.39
2.01	27.96	0.00	0.14	0.19	0.17	0.36	0.68
1.49	28.25	0.00	0.12	0.20	0.11	0.45	1.09
1.53	28.44	0.00	0.13	0.10	0.07	0.29	0.73
1.70	28.28	0.00	0.11	0.16	0.11	0.06	0.59
1.33	27.93	0.00	0.11	0.13	0.10	0.32	0.94
2.13	28.46	0.00	0.11	0.04	0.03	0.15	0.66
1.81	28.28	0.00	0.11	0.03	0.11	0.41	0.82
2.09	27.53	0.00	0.10	0.18	0.23	0.48	1.17
1.69	26.65	0.00	0.07	0.29	0.29	0.82	1.90
1.80	28.19	0.00	0.11	0.09	0.09	0.46	0.78
1.67	28.34	0.00	0.11	0.10	0.11	0.36	0.87
2.16	27.53	0.00	0.09	0.08	0.19	0.34	1.11
2.29	27.14	0.00	0.09	0.12	0.38	0.31	1.23
1.88	28.78	0.00	0.11	0.02	0.08	0.07	0.39
1.59	28.13	0.00	0.10	0.20	0.17	0.31	0.78
1.70	28.77	0.00	0.12	0.09	0.04	0.20	0.56
1.61	28.31	0.00	0.12	0.12	0.14	0.16	0.69
1.50	27.42	0.00	0.11	0.26	0.16	0.41	1.82
1.60	27.60	0.00	0.10	0.23	0.13	0.40	1.40
1.52	28.00	0.00	0.11	0.19	0.16	0.18	0.77
1.93	28.26	0.00	0.11	0.08	0.13	0.25	0.74
1.76	26.97	0.00	0.07	0.26	0.26	0.63	2.02
1.88	28.31	0.00	0.09	0.09	0.14	0.35	0.66
2.06	28.03	0.00	0.10	0.10	0.18	0.27	0.86
2.26	27.49	0.00	0.10	0.12	0.34	0.27	1.24
1.14	28.58	0.00	0.10	0.13	0.08	0.13	0.70
1.76	28.55	0.00	0.13	0.07	0.13	0.22	0.60
1.93	28.08	0.00	0.10	0.07	0.11	0.37	0.88
1.55	27.20	0.00	0.09	0.22	0.14	0.75	1.97
1.91	27.80	0.00	0.10	0.15	0.25	0.41	1.15
1.36	28.35	0.00	0.10	0.12	0.07	0.15	0.61
1.70	26.39	0.00	0.10	0.22	0.14	0.40	0.86
1.46	27.90	0.00	0.11	0.19	0.10	0.36	1.00
1.77	27.71	0.00	0.11	0.22	0.21	0.37	0.83
1.33	27.18	0.00	0.12	0.09	0.10	0.12	0.67
1.59	27.90	0.00	0.08	0.34	0.22	0.79	2.09
1.55	27.38	0.00	0.13	0.00	0.10	0.31	0.80
1.23	27.78	0.00	0.11	0.09	0.04	0.31	0.97
1.32	27.72	0.01	0.14	0.19	0.12	0.52	1.16

1.76	27.66	0.00	0.12	0.09	0.09	0.27	0.64
1.66	27.40	0.00	0.13	0.18	0.20	0.21	0.78
1.57	27.67	0.00	0.11	0.30	0.13	0.11	0.81
1.74	27.30	0.00	0.12	0.24	0.13	0.21	0.65
1.82	26.76	0.00	0.12	0.08	0.07	0.49	0.80
1.84	27.71	0.00	0.10	0.09	0.12	0.32	1.08
1.52	27.26	0.00	0.11	0.11	0.07	0.30	0.79
1.80	27.10	0.00	0.11	0.14	0.15	0.34	1.05
1.07	28.06	0.00	0.09	0.21	0.17	0.56	1.50
1.44	27.73	0.01	0.09	0.10	0.13	0.23	0.76
1.52	26.96	0.00	0.11	0.22	0.17	0.25	0.96
1.26	28.09	0.00	0.10	0.14	0.14	0.53	1.21
1.57	27.08	0.00	0.11	0.10	0.10	0.29	0.46
1.53	26.95	0.00	0.13	0.13	0.07	0.45	0.76
1.26	27.64	0.00	0.09	0.13	0.16	0.36	1.37
1.88	27.35	0.00	0.11	0.10	0.05	0.17	0.30
2.14	27.49	0.00	0.10	0.10	0.12	0.42	1.51
1.20	27.70	0.00	0.09	0.19	0.17	0.58	1.60
1.44	27.81	0.00	0.11	0.12	0.12	0.24	0.84
1.90	27.62	0.00	0.11	0.14	0.14	0.51	1.21
1.60	26.63	0.00	0.09	0.18	0.34	0.48	1.39
1.28	27.43	0.00	0.18	0.17	0.20	0.29	1.03
2.14	27.04	0.00	0.11	0.16	0.32	0.28	1.17
1.34	27.74	0.00	0.10	0.13	0.12	0.29	0.82
1.38	27.66	0.00	0.10	0.18	0.24	0.15	0.72
1.62	26.40	0.00	0.08	0.25	0.44	0.46	1.53
1.78	26.06	0.00	0.08	0.31	0.43	0.49	2.01
1.73	27.37	0.00	0.10	0.15	0.16	0.45	1.07
1.33	27.93	0.02	0.12	0.27	0.11	0.21	0.72
1.24	27.56	0.01	0.12	0.23	0.11	0.24	0.93
1.68	27.61	0.00	0.13	0.13	0.17	0.24	0.87
1.18	27.62	0.00	0.10	0.14	0.07	0.40	1.06
1.69	26.15	0.00	0.07	0.35	0.48	0.50	2.05
1.82	27.81	0.00	0.12	0.10	0.11	0.22	0.98
1.79	27.13	0.00	0.09	0.18	0.21	0.39	1.14
1.86	26.65	0.00	0.07	0.14	0.36	0.31	1.52
1.77	27.95	0.00	0.10	0.11	0.10	0.29	0.74
1.34	27.90	0.00	0.12	0.16	0.01	0.32	0.65
1.44	27.70	0.00	0.14	0.26	0.17	0.21	0.89
1.47	28.05	0.00	0.11	0.35	0.16	0.19	0.75
1.82	26.05	0.00	0.06	0.37	0.39	0.55	1.90
1.59	26.61	0.00	0.08	0.27	0.26	0.40	1.77
1.59	27.58	0.00	0.12	0.22	0.20	0.28	0.90
1.22	27.79	0.00	0.11	0.19	0.10	0.30	0.57
1.47	27.57	0.00	0.12	0.19	0.16	0.24	0.82
1.84	26.19	0.00	0.08	0.39	0.32	0.61	1.86
1.95	26.11	0.00	0.09	0.38	0.35	0.60	2.06
1.60	26.64	0.00	0.09	0.26	0.29	0.56	1.55

2.02	27.26	0.00	0.10	0.13	0.21	0.41	1.39
1.89	27.77	0.00	0.10	0.12	0.11	0.27	0.90
1.79	27.91	0.00	0.12	0.09	0.12	0.23	0.93
1.59	27.88	0.00	0.12	0.05	0.14	0.30	0.84
1.61	27.58	0.00	0.11	0.17	0.20	0.30	0.73
1.19	27.42	0.00	0.09	0.13	0.10	0.27	1.02
1.56	27.39	0.00	0.13	0.12	0.19	0.39	1.22
1.61	27.87	0.00	0.11	0.12	0.09	0.24	0.78
1.73	27.53	0.00	0.09	0.12	0.15	0.25	0.98
1.72	26.77	0.00	0.10	0.17	0.29	0.59	1.60
1.35	27.68	0.00	0.11	0.19	0.13	0.32	0.85
1.31	27.22	0.00	0.12	0.21	0.00	0.54	1.11
1.38	27.73	0.00	0.13	0.19	0.16	0.12	0.66
1.44	27.82	0.00	0.10	0.12	0.13	0.16	0.61
1.31	27.92	0.00	0.08	0.10	0.13	0.23	0.76
1.22	27.93	0.00	0.11	0.29	0.13	0.08	0.53
1.31	27.91	0.02	0.11	0.34	0.09	0.22	0.67
1.47	27.70	0.00	0.13	0.58	0.06	0.33	0.96
1.52	27.95	0.01	0.12	0.23	0.11	0.20	0.62
1.43	27.84	0.00	0.12	0.19	0.10	0.22	0.71
1.74	28.00	0.01	0.13	0.23	0.11	0.19	0.41
1.67	28.10	0.01	0.12	0.21	0.13	0.23	0.59
1.59	28.02	0.00	0.12	0.13	0.10	0.22	0.51
1.89	26.97	0.00	0.09	0.16	0.28	0.37	1.35
1.53	27.88	0.00	0.09	0.10	0.06	0.21	0.84
1.48	26.91	0.00	0.10	0.22	0.24	0.50	1.46
1.93	28.13	0.02	0.14	0.10	0.04	0.22	0.32
1.64	28.22	0.00	0.13	0.15	0.10	0.22	0.44
1.40	27.52	0.00	0.04	0.00	0.03	0.00	0.00
1.56	27.89	0.00	0.04	0.02	0.00	0.02	0.02
1.83	27.89	0.00	0.14	0.28	0.28	0.08	0.63
1.85	27.87	0.01	0.16	0.31	0.25	0.10	0.41
1.99	27.92	0.00	0.11	0.26	0.13	0.34	0.99
1.44	27.65	0.02	0.12	0.08	0.07	0.27	0.56
1.36	27.57	0.00	0.11	0.08	0.08	0.31	0.64
1.71	28.05	0.00	0.11	0.11	0.08	0.21	0.49
1.72	27.98	0.00	0.15	0.09	0.10	0.24	0.57
1.68	27.92	0.10	0.11	0.16	0.15	0.26	0.79
1.38	27.44	0.00	0.10	0.12	0.12	0.42	0.94
1.42	27.46	0.00	0.08	0.07	0.07	0.28	0.60
1.22	27.34	0.00	0.13	0.12	0.09	0.12	0.65
1.49	27.92	0.00	0.12	0.09	0.10	0.19	0.38
1.44	27.69	0.00	0.15	0.20	0.20	0.27	0.96
1.76	27.82	0.00	0.14	0.21	0.23	0.19	0.82
1.86	27.97	0.01	0.10	0.16	0.13	0.53	1.02
1.68	27.98	0.00	0.10	0.06	0.06	0.28	0.49
1.42	27.36	0.00	0.11	0.15	0.21	0.03	0.83
1.71	27.87	0.00	0.11	0.06	0.11	0.21	0.70

1.62	28.11	0.02	0.13	0.12	0.10	0.26	0.60
1.43	27.83	0.00	0.11	0.06	0.12	0.18	0.74
2.01	27.95	0.00	0.12	0.21	0.18	0.34	1.17
1.32	27.57	0.00	0.13	0.10	0.09	0.34	0.81
1.48	28.09	0.02	0.14	0.12	0.09	0.11	0.60
1.54	27.76	0.00	0.13	0.21	0.13	0.17	0.67
1.84	27.97	0.00	0.13	0.09	0.07	0.20	0.52
1.26	27.78	0.01	0.10	0.23	0.14	0.31	0.87
1.57	27.51	0.00	0.11	0.05	0.06	0.17	0.55
1.29	27.60	0.00	0.11	0.14	0.19	0.15	0.73
1.24	27.82	0.00	0.11	0.08	0.10	0.30	0.66
1.34	27.25	0.00	0.12	0.18	0.12	0.33	0.96
1.77	27.84	0.01	0.13	0.20	0.16	0.27	0.72
1.56	28.29	0.00	0.08	0.04	0.02	0.02	0.31
1.65	27.54	0.00	0.09	0.17	0.13	0.24	0.83
2.10	25.88	0.00	0.07	0.31	0.31	0.49	1.80
2.31	25.40	0.00	0.08	0.50	0.43	0.52	2.13
1.49	27.54	0.00	0.10	0.27	0.17	0.01	0.71
1.31	27.42	0.00	0.09	0.20	0.13	0.10	0.79
1.88	26.66	0.00	0.10	0.23	0.22	0.32	1.40
1.34	27.72	0.01	0.07	0.26	0.12	0.31	0.59
1.55	27.43	0.00	0.10	0.19	0.12	0.00	0.79
1.40	27.68	0.00	0.09	0.22	0.17	0.18	0.34
1.44	27.47	0.00	0.07	0.23	0.13	0.22	0.81
1.42	28.04	0.02	0.07	0.16	0.08	0.17	0.38
1.62	27.73	0.00	0.09	0.17	0.07	0.17	0.76
1.83	27.67	0.00	0.12	0.22	0.12	0.32	0.77
2.03	27.42	0.03	0.12	0.25	0.07	0.32	0.66
1.69	26.71	0.00	0.07	0.30	0.19	0.36	1.54
1.05	28.15	0.00	0.10	0.09	0.02	0.14	0.49
1.95	27.61	0.00	0.11	0.14	0.06	0.29	0.84
1.84	26.67	0.00	0.08	0.26	0.11	0.38	1.46
2.05	27.29	0.00	0.10	0.11	0.13	0.25	1.00
1.20	27.76	0.00	0.08	0.16	0.06	0.19	0.72
1.38	27.86	0.02	0.09	0.12	0.03	0.20	0.69
1.62	26.69	0.00	0.08	0.36	0.15	0.30	1.54
1.39	27.57	0.00	0.10	0.20	0.15	0.16	0.84
2.34	25.78	0.00	0.07	0.56	0.33	0.47	1.87
1.53	27.93	0.01	0.11	0.09	0.02	0.24	0.68
1.63	26.84	0.00	0.10	0.18	0.06	0.53	1.38
1.35	27.61	0.00	0.11	0.28	0.19	0.17	0.62
1.53	27.77	0.00	0.10	0.23	0.05	0.26	0.58
1.38	28.10	0.00	0.10	0.12	0.03	0.18	0.42
2.09	26.14	0.00	0.08	0.00	0.38	0.29	2.12
2.16	26.38	0.00	0.08	0.21	0.32	0.40	1.97
1.60	27.78	0.00	0.08	0.13	0.04	0.31	0.58
1.58	27.61	0.00	0.10	0.26	0.09	0.04	1.01
1.72	27.89	0.00	0.09	0.23	0.11	0.21	0.76

1.39	27.47	0.00	0.10	0.17	0.25	0.33	1.02
1.45	27.24	0.01	0.09	0.21	0.20	0.38	0.90
1.71	27.55	0.01	0.10	0.21	0.10	0.34	1.03
1.67	27.44	0.00	0.11	0.15	0.17	0.20	0.44
4.50	24.92	0.00	0.21	0.32	0.35	0.57	1.82
2.34	24.11	0.52	0.05	0.52	0.44	0.32	2.13
2.37	25.34	0.00	0.07	0.31	0.33	0.39	2.11
2.04	26.78	0.00	0.07	0.22	0.24	0.39	1.28
1.52	27.27	0.00	0.09	0.26	0.18	0.06	0.79
1.57	27.47	0.00	0.09	0.21	0.15	0.04	0.37
2.05	27.61	0.00	0.13	0.11	0.01	0.09	0.69
2.03	27.84	0.00	0.11	0.12	0.00	0.29	0.70
2.52	27.22	0.00	0.22	0.23	0.08	0.05	0.35
1.42	28.09	0.00	0.09	0.06	0.07	0.34	0.75
1.93	26.92	0.00	0.09	0.29	0.09	0.35	1.49
1.75	27.11	0.00	0.09	0.22	0.19	0.24	1.27
1.30	27.58	0.00	0.06	0.21	0.10	0.28	0.67
1.30	27.98	0.00	0.09	0.21	0.08	0.02	0.51
1.77	26.82	0.00	0.09	0.20	0.15	0.24	1.64
1.69	26.70	0.00	0.09	0.31	0.17	0.65	1.44
1.44	27.18	0.01	0.09	0.23	0.15	0.16	0.82
2.00	27.51	0.00	0.14	0.11	0.11	0.22	0.58
2.01	27.77	0.02	0.12	0.16	0.09	0.42	0.77
1.30	29.15	0.01	0.09	0.21	0.12	0.25	0.93
1.40	27.30	0.01	0.10	0.23	0.15	0.16	1.08
1.33	28.00	0.01	0.08	0.27	0.12	0.00	0.43
1.66	27.68	0.01	0.09	0.12	0.03	0.01	0.72
1.27	27.75	0.00	0.10	0.18	0.11	0.25	0.76
1.83	27.67	0.01	0.10	0.10	0.07	0.22	0.67
1.38	27.75	0.01	0.08	0.23	0.16	0.14	0.48
1.49	27.82	0.01	0.07	0.26	0.12	0.15	0.55
2.01	26.99	0.00	0.10	0.13	0.15	0.49	1.29
1.55	27.63	0.01	0.09	0.09	0.13	0.31	0.66
1.47	27.85	0.01	0.09	0.10	0.08	0.29	0.80
1.64	27.81	0.01	0.09	0.16	0.11	0.13	0.63
1.47	28.34	0.01	0.08	0.02	0.00	0.07	0.17
2.14	26.89	0.00	0.11	0.21	0.28	0.25	1.32
1.34	27.84	0.00	0.09	0.20	0.08	0.18	0.73
1.51	26.78	0.00	0.08	0.18	0.10	0.34	1.52
1.33	27.46	0.00	0.09	0.21	0.13	0.36	0.97
1.53	27.90	0.00	0.09	0.15	0.10	0.04	0.65
1.46	27.49	0.00	0.08	0.22	0.16	0.05	0.61
1.41	27.22	0.00	0.09	0.21	0.17	0.30	0.91
1.86	27.09	0.02	0.12	0.75	0.09	0.42	0.95
1.64	27.50	0.01	0.09	0.34	0.10	0.12	1.09
1.33	27.79	0.01	0.07	0.27	0.09	0.09	0.42
1.52	26.81	0.00	0.10	0.28	0.22	0.18	1.01
1.44	27.07	0.00	0.08	0.23	0.24	0.18	1.08

1.28	26.91	0.00	0.06	0.26	0.10	0.37	1.11
1.32	27.38	0.00	0.08	0.30	0.22	0.13	0.53
1.77	27.68	0.00	0.10	0.12	0.06	0.10	0.70
2.00	25.58	0.00	0.06	0.31	0.50	0.26	1.54
1.66	27.32	0.01	0.09	0.59	0.11	0.26	0.91
1.78	27.63	0.00	0.12	0.18	0.07	0.24	0.69
1.82	28.11	0.00	0.08	0.02	0.02	0.00	0.38
1.65	27.51	0.00	0.08	0.35	0.10	0.41	1.04
1.97	28.18	0.02	0.08	0.04	0.05	0.15	0.24
1.42	27.34	0.00	0.07	0.21	0.19	0.20	1.01
1.37	28.13	0.02	0.10	0.27	0.08	0.06	0.37
1.67	27.50	0.00	0.08	0.19	0.08	0.21	0.58
1.84	27.51	0.00	0.12	0.22	0.09	0.20	0.65
1.70	26.50	0.00	0.10	0.32	0.27	0.48	1.61
1.63	26.49	0.00	0.09	0.38	0.20	0.38	1.59
1.30	27.64	0.00	0.09	0.31	0.21	0.13	0.60
1.65	26.42	0.00	0.10	0.38	0.29	0.50	1.47
1.61	26.26	0.00	0.09	0.29	0.21	0.36	1.63
1.89	26.14	0.00	0.12	0.33	0.31	0.26	1.77
1.97	26.86	0.00	0.10	0.14	0.17	0.32	1.20
1.32	27.52	0.00	0.08	0.26	0.15	0.05	0.53
1.32	27.57	0.00	0.08	0.20	0.09	0.10	0.91
1.50	27.11	0.00	0.08	0.25	0.17	0.17	0.94
1.48	27.95	0.00	0.08	0.12	0.06	0.17	0.65
1.51	27.27	0.01	0.09	0.27	0.10	0.26	0.95
1.63	27.45	0.00	0.10	0.33	0.14	0.37	1.18
2.53	26.73	0.05	0.16	2.54	0.00	0.69	1.23
1.64	28.13	0.00	0.09	0.15	0.03	0.14	0.40
2.10	27.67	0.00	0.11	0.11	0.06	0.25	0.84
1.85	28.27	0.00	0.10	0.07	0.00	0.09	0.53
1.83	28.23	0.00	0.11	0.08	0.00	0.16	0.36
2.52	26.62	0.06	0.14	1.69	0.02	0.54	1.43
1.61	27.64	0.01	0.10	0.15	0.04	0.41	0.97
1.78	27.68	0.00	0.08	0.19	0.07	0.32	0.61
1.41	27.55	0.00	0.08	0.10	0.06	0.24	0.74
1.42	27.25	0.00	0.07	0.12	0.14	0.29	1.01
1.67	27.56	0.00	0.10	0.21	0.08	0.24	0.56
1.45	27.66	0.00	0.07	0.31	0.18	0.02	0.55
1.46	27.32	0.00	0.09	0.28	0.15	0.28	0.92
1.58	27.62	0.00	0.08	0.15	0.11	0.20	0.84
1.56	27.70	0.00	0.08	0.17	0.12	0.14	0.55
1.92	26.22	0.00	0.09	0.60	0.23	0.35	1.41
2.23	27.36	0.00	0.09	0.10	0.13	0.19	0.59
1.55	27.55	0.00	0.09	0.15	0.07	0.18	0.78
1.44	27.57	0.00	0.09	0.20	0.10	0.20	0.49
1.81	27.03	0.00	0.08	0.17	0.14	0.20	1.04
1.87	26.66	0.00	0.08	0.55	0.20	0.33	1.08
2.14	27.59	0.00	0.11	0.14	0.09	0.16	0.64

1.62	27.52	0.00	0.10	0.35	0.13	0.00	0.62
1.63	27.27	0.00	0.07	0.19	0.12	0.16	0.80
1.58	27.09	0.00	0.09	0.16	0.14	0.25	1.12
1.46	26.88	0.00	0.08	0.31	0.17	0.17	1.00
1.41	27.59	0.00	0.10	0.26	0.19	0.05	0.53
1.54	26.79	0.00	0.08	0.21	0.24	0.44	1.01
1.38	26.85	0.00	0.09	0.25	0.18	0.29	1.33
1.21	27.16	0.00	0.08	0.22	0.11	0.21	1.14
1.43	26.74	0.00	0.08	0.25	0.18	0.18	1.28
1.34	27.29	0.00	0.08	0.25	0.20	0.20	0.90
1.64	27.09	0.00	0.09	0.21	0.15	0.37	0.86
1.89	26.87	0.00	0.08	0.13	0.18	0.37	1.20
1.79	26.97	0.00	0.07	0.19	0.23	0.20	0.93
1.65	27.46	0.00	0.09	0.17	0.15	0.06	0.81
1.52	27.41	0.00	0.10	0.23	0.09	0.40	0.99
1.50	27.27	0.00	0.09	0.17	0.18	0.21	1.00
1.51	27.71	0.00	0.08	0.23	0.12	0.18	0.72
1.48	27.25	0.00	0.09	0.19	0.17	0.11	0.79
1.47	27.66	0.00	0.08	0.18	0.09	0.05	0.58
1.31	26.72	0.00	0.09	0.27	0.14	0.56	1.31
1.78	28.23	0.00	0.10	0.02	0.00	0.02	0.35
1.87	28.21	0.00	0.10	0.03	0.03	0.12	0.22
1.64	26.89	0.00	0.09	0.38	0.18	0.43	1.15
1.66	26.65	0.00	0.08	0.35	0.24	0.44	1.57
1.54	28.02	0.01	0.09	0.22	0.11	0.13	0.71
1.51	27.55	0.00	0.10	0.25	0.17	0.18	1.13
1.11	28.66	0.01	0.11	0.02	0.03	0.04	0.19
0.99	28.78	0.00	0.08	0.06	0.01	0.05	0.17
1.58	27.49	0.00	0.10	0.18	0.10	0.12	0.97
1.74	27.95	0.00	0.10	0.18	0.04	0.25	0.53
1.38	27.57	0.00	0.09	0.30	0.10	0.10	0.76
1.59	27.16	0.00	0.08	0.19	0.15	0.20	1.10
1.74	26.87	0.00	0.08	0.17	0.19	0.38	1.31
1.58	26.75	0.00	0.09	0.17	0.13	0.36	1.13
1.26	27.33	0.00	0.09	0.27	0.16	0.18	0.53
1.54	27.85	0.00	0.09	0.07	0.00	0.08	0.52
1.60	27.45	0.00	0.10	0.24	0.13	0.18	0.98
1.54	27.37	0.00	0.08	0.19	0.12	0.20	0.83
1.86	26.65	0.00	0.11	0.30	0.11	0.22	0.98
1.65	27.24	0.00	0.08	0.21	0.12	0.23	0.77
1.55	26.97	0.00	0.11	0.45	0.12	0.38	0.82
1.38	27.04	0.00	0.08	0.25	0.13	0.26	0.89
1.71	27.84	0.01	0.08	0.01	0.02	0.21	0.53
1.75	26.71	0.00	0.09	0.22	0.21	0.41	1.75
1.58	27.37	0.00	0.10	0.20	0.16	0.16	0.78
1.36	27.08	0.00	0.09	0.22	0.21	0.25	1.07
1.44	27.51	0.00	0.08	0.25	0.13	0.06	0.47
1.47	27.19	0.00	0.09	0.26	0.13	0.36	1.04

1.62	27.44	0.00	0.10	0.17	0.08	0.23	0.70
1.47	28.01	0.00	0.09	0.10	0.01	0.16	0.33
1.47	27.99	0.00	0.08	0.05	0.04	0.02	0.33
1.76	27.31	0.02	0.10	0.26	0.13	0.28	0.76
1.50	27.63	0.00	0.09	0.14	0.04	0.24	0.49
1.78	28.11	0.00	0.11	0.05	0.00	0.04	0.30
1.86	27.90	0.00	0.09	0.08	0.00	0.11	0.38
1.68	28.12	0.00	0.10	0.01	0.00	0.09	0.47
2.03	26.90	0.00	0.08	0.18	0.18	0.35	1.06
2.00	27.36	0.00	0.10	0.21	0.13	0.20	0.61
1.49	27.22	0.00	0.09	0.15	0.08	0.32	0.85
2.04	26.82	0.00	0.08	0.14	0.19	0.28	0.96
1.82	28.08	0.00	0.10	0.07	0.03	0.00	0.41
1.49	27.71	0.00	0.09	0.13	0.18	0.10	0.64
1.46	27.24	0.00	0.09	0.24	0.19	0.26	0.79
1.60	27.92	0.00	0.09	0.04	0.00	0.15	0.41
1.67	27.01	0.00	0.09	0.26	0.18	0.33	0.88
1.89	27.92	0.01	0.10	0.07	0.00	0.22	0.52
1.21	28.42	0.00	0.09	0.09	0.00	0.00	0.32
1.41	28.38	0.01	0.09	0.07	0.00	0.05	0.27
1.44	27.25	0.00	0.10	0.28	0.21	0.22	1.01
1.40	27.91	0.00	0.10	0.19	0.15	0.05	0.52
1.17	28.42	0.00	0.10	0.08	0.00	0.11	0.28
1.54	27.06	0.00	0.09	0.22	0.16	0.41	1.08
1.27	28.50	0.01	0.09	0.16	0.02	0.26	0.31
1.62	27.63	0.00	0.07	0.24	0.10	0.24	0.46
1.80	27.61	0.00	0.09	0.20	0.09	0.39	0.65
1.70	28.56	0.00	0.10	0.13	0.00	0.00	0.10
1.44	27.38	0.01	0.09	0.16	0.20	0.17	0.87
1.77	28.24	0.01	0.10	0.11	0.02	0.14	0.40
1.55	27.37	0.00	0.10	0.19	0.20	0.17	0.92
2.22	27.70	0.01	0.11	0.06	0.10	0.16	0.74
1.47	27.24	0.00	0.10	0.22	0.18	0.22	1.03
1.55	27.82	0.00	0.11	0.14	0.12	0.10	0.53
1.41	27.38	0.00	0.10	0.21	0.18	0.28	0.76
1.58	27.79	0.01	0.10	0.19	0.10	0.10	0.39
1.55	27.56	0.00	0.09	0.19	0.12	0.22	0.74
2.14	27.77	0.01	0.12	0.11	0.07	0.12	0.56
1.02	28.34	0.02	0.09	0.15	0.02	0.04	0.21
1.70	28.29	0.00	0.10	0.13	0.06	0.00	0.21
1.55	27.20	0.00	0.09	0.37	0.17	0.36	1.13
1.77	28.21	0.00	0.09	0.03	0.00	0.08	0.27
1.59	27.92	0.00	0.09	0.12	0.03	0.17	0.45
1.62	27.50	0.02	0.12	0.28	0.13	0.19	0.79
1.51	28.50	0.01	0.10	0.10	0.00	0.16	0.13
1.90	27.53	0.00	0.09	0.22	0.09	0.29	0.83
2.59	27.45	0.01	0.09	0.20	0.13	0.17	0.62
2.91	27.31	0.00	0.07	0.12	0.13	0.20	0.79

2.51	27.83	0.00	0.09	0.15	0.07	0.11	0.63
1.11	28.46	0.00	0.11	0.12	0.00	0.14	0.23
1.39	28.47	0.00	0.11	0.06	0.01	0.02	0.14
1.64	27.56	0.01	0.08	0.16	0.15	0.21	0.73
2.03	28.42	0.01	0.12	0.13	0.03	0.08	0.13
1.66	28.13	0.01	0.11	0.20	0.04	0.24	0.46
1.63	27.47	0.00	0.09	0.29	0.26	0.17	0.75
1.67	27.13	0.00	0.08	0.18	0.16	0.23	1.00
1.49	26.93	0.00	0.09	0.34	0.22	0.39	0.99
1.60	27.32	0.00	0.10	0.26	0.23	0.24	0.86
1.86	27.64	0.00	0.07	0.16	0.15	0.16	0.74
1.84	26.91	0.00	0.10	0.54	0.26	0.20	1.15
1.40	27.44	0.00	0.09	0.23	0.21	0.23	0.92
2.48	27.10	0.00	0.09	0.19	0.07	0.35	1.00
1.81	27.17	0.01	0.11	0.32	0.07	0.46	1.22
1.33	28.52	0.00	0.06	0.03	0.02	0.02	0.16
2.21	27.31	0.00	0.10	0.27	0.12	0.31	0.85
1.50	27.85	0.00	0.09	0.14	0.06	0.30	0.70
1.59	28.08	0.01	0.08	0.12	0.00	0.24	0.44
1.41	27.05	0.00	0.09	0.20	0.13	0.29	1.24
1.58	28.84	0.01	0.14	0.16	0.08	0.23	0.41
1.66	28.81	0.00	0.11	0.11	0.10	0.16	0.60
1.83	28.22	0.00	0.12	0.20	0.19	0.23	0.67
1.36	28.68	0.01	0.17	0.14	0.07	0.02	0.55
1.71	27.99	0.00	0.11	0.24	0.23	0.42	0.85
1.64	28.05	0.00	0.12	0.20	0.19	0.41	1.02
1.86	27.99	0.00	0.12	0.17	0.26	0.28	0.67
2.55	27.84	0.02	0.19	0.91	0.10	0.29	1.15
1.57	28.45	0.00	0.11	0.15	0.07	0.25	0.76
1.55	27.82	0.00	0.12	0.23	0.27	0.35	1.12
1.80	27.83	0.00	0.11	0.24	0.19	0.33	1.10
1.83	27.86	0.00	0.11	0.23	0.24	0.24	1.05
2.33	28.44	0.00	0.15	0.14	0.03	0.20	0.71
2.25	27.79	0.00	0.13	0.69	0.17	0.28	1.31
2.35	27.35	0.00	0.14	0.87	0.10	0.55	1.67
1.76	28.09	0.00	0.10	0.19	0.20	0.33	0.65
1.58	27.95	0.00	0.10	0.27	0.22	0.32	1.03
1.62	27.97	0.00	0.12	0.19	0.13	0.43	0.90
1.93	28.51	0.01	0.15	0.06	0.01	0.23	0.50
1.70	28.19	0.00	0.11	0.27	0.17	0.27	0.76
1.68	27.89	0.00	0.12	0.19	0.16	0.38	0.95
2.61	27.73	0.03	0.16	1.61	0.09	0.46	1.33
1.46	28.15	0.00	0.12	0.27	0.29	0.38	0.88
1.87	28.44	0.00	0.13	0.22	0.19	0.21	0.76
1.59	28.09	0.00	0.11	0.21	0.15	0.38	1.09
1.91	28.52	0.02	0.14	0.13	0.09	0.22	0.96
1.66	27.83	0.00	0.10	0.22	0.23	0.30	0.92
1.39	28.58	0.00	0.12	0.24	0.17	0.12	0.48

1.43	28.83	0.01		0.13	0.10	0.08	0.18	0.59
1.51	28.11	0.00		0.10	0.23	0.23	0.27	0.96
1.73	28.35	0.02		0.11	0.24	0.10	0.12	0.83
1.92	28.00	0.00		0.14	0.40	0.14	0.25	0.89

1.39	27.59	0.00	0.00	0.07	0.33	0.27	0.12	0.51
1.35	27.51	0.00	0.12	0.11	0.38	0.26	0.09	0.57
1.32	27.71	0.00	0.04	0.10	0.28	0.26	0.07	0.49
1.31	27.76	0.00	0.04	0.04	0.36	0.26	0.22	0.53
1.34	27.88	0.00	0.07	0.07	0.41	0.26	0.06	0.55
1.40	27.83	0.00	0.01	0.07	0.23	0.25	0.10	0.40
1.65	27.92	0.00	0.00	0.07	0.18	0.18	0.14	0.44
1.67	28.01	0.00	0.00	0.10	0.18	0.17	0.13	0.36
1.61	27.95	0.00	0.00	0.07	0.13	0.17	0.09	0.48
1.68	27.98	0.00	0.02	0.07	0.17	0.21	0.01	0.34
1.58	28.07	0.00	0.05	0.06	0.20	0.21	0.62	0.33
1.61	28.00	0.00	0.05	0.11	0.26	0.22	0.12	0.45
1.67	28.14	0.00	0.06	0.08	0.19	0.22	0.06	0.37
1.47	28.10	0.00	0.05	0.09	0.25	0.22	0.04	0.33
1.65	28.08	0.00	0.00	0.07	0.22	0.19	0.16	0.51
1.52	27.78	0.00	0.06	0.10	0.27	0.33	0.05	0.32
1.87	27.57	0.01	0.00	0.18	0.46	0.26	0.09	0.53
1.81	27.81	0.00	0.00	0.19	0.46	0.13	0.05	0.46
0.32	27.86	0.00	0.12	0.17	0.51	0.11	0.08	0.50
1.88	27.38	0.00	0.00	0.18	0.58	0.31	0.09	0.49
1.88	27.69	0.00	0.12	0.16	0.57	0.24	0.12	0.50
1.94	27.06	0.00	0.16	0.14	0.86	0.60	0.06	0.61
1.93	26.87	0.00	0.12	0.12	0.96	0.67	0.06	0.55
1.90	27.24	0.00	0.01	0.18	0.77	0.66	0.02	0.47
1.91	26.95	0.00	0.00	0.17	0.82	0.81	0.05	0.54
1.77	26.94	0.00	0.00	0.11	0.60	0.74	0.06	0.45
1.77	26.91	0.00	0.00	0.15	0.54	0.85	0.05	0.41
1.45	27.87	0.00	0.07	0.15	0.20	0.35	0.07	0.32
1.38	27.88	0.03	0.11	0.22	0.06	0.11	0.03	0.10
2.27	26.15	0.00	0.12	0.15	0.49	1.45	0.10	0.59
1.88	26.48	0.00	0.00	0.07	0.32	0.77	0.02	0.58
2.14	25.45	0.00	0.18	0.08	0.68	1.60	0.08	0.54
2.54	25.81	0.01	0.20	0.18	1.08	1.92	0.11	0.45
1.66	27.41	0.00	0.00	0.08	0.14	0.26	0.09	0.49
1.50	27.52	0.00	0.06	0.06	0.24	0.25	0.06	0.40
1.41	27.50	0.00	0.05	0.10	0.38	0.25	0.07	0.56
1.36	27.54	0.00	0.00	0.09	0.30	0.24	0.10	0.54
1.57	27.59	0.00	0.10	0.10	0.20	0.19	0.07	0.48
1.53	27.48	0.00	0.15	0.09	0.22	0.23	0.08	0.57
1.53	27.61	0.00	0.08	0.08	0.26	0.23	0.12	0.56
1.55	27.65	0.00	0.02	0.08	0.23	0.22	0.11	0.62
1.53	27.73	0.00	0.09	0.09	0.24	0.24	0.00	0.52

1.43	27.56	0.00	0.17	0.09	0.30	0.25	0.13	0.32
1.45	27.46	0.00	0.03	0.11	0.21	0.23	0.06	0.29
1.47	27.47	0.00	0.00	0.06	0.19	0.23	0.07	0.42
1.46	27.63	0.00	0.00	0.08	0.24	0.22	0.10	0.40
1.57	27.56	0.00	0.00	0.07	0.11	0.24	0.09	0.49
1.58	27.51	0.00	0.00	0.07	0.17	0.21	0.07	0.44
1.65	26.87	0.00	0.08	0.09	0.16	0.19	0.00	0.43
1.67	27.18	0.00	0.11	0.08	0.15	0.19	0.10	0.39
1.61	27.14	0.00	0.00	0.08	0.18	0.25	0.03	0.46
1.69	27.42	0.00	0.06	0.11	0.15	0.18	0.15	0.39
1.81	27.39	0.00	0.00	0.07	0.15	0.26	0.13	0.31
1.89	27.63	0.01	0.00	0.08	0.20	0.25	0.09	0.42
1.87	27.07	0.00	0.00	0.08	0.12	0.22	0.05	0.34
1.84	27.20	0.00	0.00	0.07	0.17	0.19	0.06	0.40
1.81	27.41	0.00	0.10	0.10	0.18	0.24	0.10	0.41
1.49	27.20	0.00	0.00	0.12	0.54	0.26	0.16	0.71
1.21	27.25	0.00	0.07	0.07	0.25	0.23	0.11	0.61
1.25	27.32	0.00	0.18	0.09	0.28	0.22	0.11	0.57
1.28	26.89	0.00	0.00	0.06	0.17	0.17	0.11	0.38
1.45	26.26	0.00	0.06	0.05	0.24	0.26	0.13	0.61
1.54	27.53	0.00	0.03	0.07	0.13	0.18	0.13	0.39
1.58	27.51	0.00	0.00	0.08	0.18	0.17	0.06	0.33
1.57	27.42	0.00	0.02	0.06	0.24	0.23	0.07	0.37
1.68	27.29	0.00	0.00	0.06	0.21	0.21	0.11	0.42
1.83	27.80	0.01	0.00	0.09	0.33	0.19	0.09	0.89
1.86	27.63	0.02	0.06	0.13	0.25	0.22	0.06	0.38
1.68	27.89	0.01	0.00	0.13	0.24	0.21	0.09	0.42
1.60	27.94	0.00	0.00	0.07	0.23	0.17	0.09	0.44
1.55	28.10	0.01	0.00	0.08	0.21	0.20	0.05	0.33
1.55	28.22	0.00	0.02	0.08	0.22	0.22	0.06	0.35
1.61	28.08	0.00	0.00	0.09	0.18	0.22	0.07	0.28
1.49	28.11	0.00	0.03	0.10	0.21	0.23	0.03	0.27
1.48	28.10	0.00	0.00	0.10	0.24	0.19	0.05	0.31
1.58	28.11	0.01	0.00	0.11	0.20	0.17	0.10	0.36
1.41	28.00	0.00	0.00	0.07	0.19	0.21	0.00	0.36
1.65	27.80	0.00	0.00	0.10	0.17	0.21	0.09	0.42
1.56	28.06	0.00	0.00	0.08	0.21	0.18	0.03	0.33
1.56	27.59	0.00	0.07	0.05	0.25	0.24	0.16	0.70
1.35	27.82	0.00	0.06	0.07	0.35	0.29	0.05	0.48
1.36	27.73	0.00	0.05	0.07	0.35	0.18	0.06	0.55
1.20	28.03	0.00	0.02	0.08	0.38	0.21	0.06	0.37
1.29	27.73	0.00	0.00	0.04	0.36	0.27	0.14	0.45
1.61	27.64	0.00	0.04	0.07	0.15	0.16	0.09	0.51
1.59	27.65	0.00	0.00	0.10	0.16	0.21	0.00	0.43
1.59	27.52	0.02	0.00	0.08	0.18	0.21	0.07	0.40
1.38	27.65	0.00	0.11	0.06	0.37	0.28	0.14	0.56
1.34	29.03	0.02		0.18	0.07	0.01	0.00	0.00

2.33	26.22	0.00	0.22	0.69	1.25	0.00	0.74
1.91	28.44	0.00	0.13	0.20	0.19	0.07	0.31
1.82	27.95	0.00	0.21	0.67	0.45	0.10	0.18
1.23	29.40	0.01	0.20	0.08	0.00	0.11	0.01
1.08	29.37	0.01	0.19	0.05	0.00	0.02	0.03
2.72	26.70	0.00	0.24	0.68	1.41	0.15	0.44
2.67	26.66	0.00	0.24	0.70	1.27	0.12	0.58
1.96	28.44	0.01	0.14	0.19	0.18	0.06	0.41
2.04	28.42	0.00	0.17	0.19	0.16	0.10	0.40
2.31	27.21	0.00	0.18	0.36	0.68	0.03	0.53
1.43	28.77	0.03	0.24	0.06	0.05	0.11	0.01
1.81	28.22	0.00	0.13	0.32	0.22	0.07	0.32
1.52	28.38	0.00	0.13	0.23	0.18	0.11	0.30
2.26	26.36	0.00	0.21	0.65	1.14	0.00	0.40
1.47	27.80	0.00	0.11	0.40	0.29	0.20	0.60
2.47	25.96	0.00	0.20	0.82	1.43	0.00	0.64
1.58	27.52	0.02	0.22	0.70	0.23	0.18	0.69
2.17	27.95	0.00	0.17	0.24	0.23	0.07	0.46
1.51	28.12	0.00	0.12	0.31	0.22	0.00	0.40
1.92	28.12	0.00	0.12	0.22	0.19	0.09	0.29
1.71	27.91	0.00	0.15	0.17	0.18	0.00	0.27
2.62	26.36	0.00	0.23	0.57	1.17	0.06	0.61
1.33	28.90	0.01	0.21	0.02	0.03	0.00	0.18
2.07	28.05	0.00	0.16	0.28	0.24	0.07	0.34
1.50	27.86	0.00	0.13	0.54	0.26	0.27	0.80
1.50	28.18	0.01	0.11	0.19	0.24	0.08	0.38
1.61	27.92	0.00	0.12	0.58	0.28	0.17	0.63
1.78	28.47	0.00	0.14	0.13	0.14	0.03	0.27
1.76	27.32	0.06	0.12	0.23	0.26	0.06	0.53
1.43	28.06	0.02	0.12	0.20	0.26	0.08	0.44
1.42	28.28	0.02	0.14	0.55	0.18	0.09	0.11
1.45	27.74	0.01	0.15	0.24	0.16	0.14	0.45
1.63	28.18	0.00	0.12	0.15	0.17	0.09	0.32
1.73	28.05	0.05	0.10	0.15	0.21	0.19	0.81
1.92	28.24	0.00	0.08	2.70	0.21	0.08	0.40
1.78	28.22	0.00	0.11	0.10	0.14	0.04	0.44
1.50	27.85	0.00	0.12	0.35	0.23	0.22	0.64
1.57	27.61	0.01	0.11	0.55	0.28	0.04	0.81
1.53	27.69	0.01	0.12	0.14	0.21	0.12	0.85
1.39	27.84	0.00	0.10	0.24	0.20	0.19	0.45
1.44	28.01	0.00	0.11	0.29	0.23	0.01	0.35

l on a 3 cation basis.

Nd2O3 wt%	Sm2O3 wt%	F wt%	Sum wt%	O=F wt%	Total wt%	Si Site apfu	Ti Site apfu	Ca Site apfu
0.25	0.09	0.91	98.37	0.38	97.99	1.03	0.987	0.993
0.37	0.09	0.67	97.08	0.28	96.80	1.01	0.999	1.009
0.73	0.27	0.61	96.83	0.26	96.57	1.00	1.002	1.024
0.37	0.13	0.75	97.12	0.32	96.80	1.01	0.998	1.009
0.33	0.14	0.73	96.85	0.31	96.54	1.01	0.996	1.003
0.28	0.05	0.77	97.56	0.32	97.24	1.00	0.992	1.012
0.18	0.08	0.77	97.20	0.32	96.87	1.00	0.992	1.013
0.28	0.05	0.76	97.53	0.32	97.21	1.01	0.987	1.009
0.46	0.16	0.60	96.29	0.25	96.04	1.01	0.995	1.015
0.36	0.05	0.69	96.91	0.29	96.62	1.01	1.011	1.006
0.27	0.07	0.81	97.17	0.34	96.83	1.01	1.000	1.004
0.27	0.10	0.69	97.39	0.29	97.10	1.00	0.994	1.018
0.12	0.05	0.64	97.40	0.27	97.13	1.00	1.006	1.005
0.24	0.00	0.73	96.58	0.31	96.27	1.01	0.999	1.012
0.25	0.14	0.34	97.05	0.14	96.91	1.00	0.986	1.045
0.19	0.00	0.53	97.58	0.22	97.35	1.00	0.999	1.045
0.12	0.00	0.96	98.23	0.40	97.83	1.00	1.001	1.012
0.19	0.02	0.58	97.05	0.24	96.80	1.00	0.999	1.050
0.18	0.02	0.64	97.81	0.27	97.54	1.00	0.999	1.039
0.11	0.05	0.58	97.28	0.24	97.03	1.00	1.008	1.036
0.74	0.28	0.49	97.07	0.21	96.87	1.00	1.014	1.037
0.76	0.23	0.47	96.12	0.20	95.92	1.01	1.019	1.020
0.69	0.22	0.59	96.17	0.25	95.92	1.00	1.013	1.034
0.28	0.06	0.67	97.37	0.28	97.08	1.00	0.993	1.028
0.15	0.07	0.91	97.47	0.38	97.09	1.00	1.000	1.013
0.50	0.08	0.57	95.96	0.24	95.72	1.01	1.018	1.016
0.79	0.29	0.48	95.57	0.20	95.37	1.01	1.011	1.037
0.37	0.08	0.52	96.63	0.22	96.41	1.01	1.009	1.034
0.29	0.10	0.58	97.13	0.24	96.88	1.00	0.993	1.038
0.28	0.08	0.62	97.55	0.26	97.29	1.00	1.003	1.012
0.29	0.11	0.54	97.77	0.23	97.54	1.03	1.000	0.983
0.32	0.11	0.79	97.54	0.33	97.21	1.01	1.002	1.005
0.57	0.22	0.63	96.12	0.26	95.85	1.00	1.002	1.017
0.74	0.27	0.69	95.21	0.29	94.92	1.00	0.992	1.027
0.57	0.22	0.64	96.86	0.27	96.59	1.00	1.001	1.021
0.65	0.20	0.66	96.00	0.28	95.72	1.00	1.001	1.016
0.51	0.13	0.74	96.10	0.31	95.79	1.01	0.994	1.014
0.30	0.01	0.73	97.99	0.31	97.69	1.00	1.000	1.011
0.56	0.17	0.44	96.85	0.18	96.67	1.00	1.002	1.046
0.59	0.13	0.47	96.88	0.20	96.68	1.00	1.000	1.051
0.36	0.04	0.59	97.80	0.25	97.55	1.00	1.000	1.025
0.34	0.07	0.53	97.89	0.22	97.66	1.00	0.995	1.029
0.36	0.05	0.47	97.07	0.20	96.87	1.00	0.997	1.047
0.18	0.01	0.60	97.17	0.25	96.92	1.00	0.996	1.037

0.09	0.01	0.61	97.07	0.26	96.81	1.00	0.997	1.034
0.35	0.09	0.52	97.86	0.22	97.64	1.00	0.994	1.035
0.35	0.14	0.63	97.73	0.26	97.47	1.00	0.994	1.028
0.52	0.12	0.61	97.59	0.26	97.33	1.00	0.999	1.021
0.54	0.12	0.57	97.23	0.24	96.99	1.00	0.994	1.024
0.48	0.06	0.58	97.55	0.25	97.30	1.00	0.992	1.029
0.46	0.11	0.55	97.41	0.23	97.17	1.00	0.998	1.023
0.56	0.17	0.56	98.60	0.24	98.36	1.00	0.998	1.019
0.57	0.21	0.59	94.37	0.25	94.12	1.00	0.994	1.021
0.67	0.28	0.44	96.10	0.18	95.91	1.00	1.004	1.019
0.63	0.19	0.58	97.80	0.25	97.56	1.00	1.005	1.012
0.56	0.07	0.50	98.47	0.21	98.26	1.00	0.999	1.020
0.54	0.24	0.43	96.70	0.18	96.52	1.00	0.997	1.048
0.61	0.22	0.50	97.12	0.21	96.91	1.00	1.004	1.026
0.44	0.12	0.55	98.01	0.23	97.77	1.00	1.000	1.021
0.64	0.21	0.59	97.31	0.25	97.07	1.00	0.994	1.027
0.50	0.12	0.66	98.35	0.28	98.07	1.00	0.997	1.019
0.55	0.15	0.57	98.00	0.24	97.76	1.00	0.989	1.034
0.53	0.09	0.60	97.81	0.25	97.56	1.00	0.992	1.023
0.67	0.09	0.55	97.46	0.23	97.22	1.00	1.001	1.015
0.57	0.17	0.56	98.51	0.24	98.27	1.00	0.994	1.024
0.67	0.18	0.53	98.31	0.22	98.09	1.00	0.989	1.026
0.85	0.21	0.41	98.62	0.17	98.45	1.00	0.994	1.027
0.74	0.21	0.50	98.16	0.21	97.95	1.00	0.996	1.025
0.73	0.17	0.58	98.41	0.24	98.16	1.00	0.996	1.022
0.62	0.14	0.55	97.39	0.23	97.15	1.01	0.989	1.018
0.61	0.16	0.58	97.28	0.24	97.04	1.00	0.995	1.017
0.63	0.14	0.58	98.01	0.24	97.77	1.00	0.990	1.023
0.45	0.10	0.60	97.33	0.25	97.08	1.00	0.992	1.033
0.52	0.15	0.41	97.19	0.17	97.01	1.00	0.997	1.026
0.51	0.14	0.46	98.23	0.19	98.03	1.00	0.993	1.029
0.46	0.10	0.49	97.49	0.20	97.28	1.00	0.989	1.030
0.51	0.15	0.40	97.55	0.17	97.38	1.00	0.985	1.029
0.53	0.15	0.37	97.84	0.15	97.69	1.00	0.993	1.025
0.52	0.18	0.48	97.06	0.20	96.85	1.00	1.005	1.043
0.04	0.09	0.78	96.94	0.33	96.61	1.01	0.982	1.014
0.73	0.21	0.50	96.59	0.21	96.37	1.00	1.000	1.067
0.41	0.12	0.63	97.94	0.27	97.67	1.00	0.998	1.013
0.03	0.01	0.68	98.24	0.28	97.96	1.00	0.992	1.012
0.53	0.07	0.44	97.74	0.18	97.55	1.00	0.991	1.021
0.60	0.12	0.35	97.57	0.15	97.42	1.00	0.987	1.029
0.62	0.10	0.39	97.44	0.16	97.28	1.00	0.984	1.032
0.74	0.10	0.49	92.10	0.21	91.90	1.00	0.993	1.017
0.54	0.06	0.55	98.07	0.23	97.83	1.00	0.986	1.027
0.26	0.01	0.60	98.01	0.25	97.76	1.00	0.975	1.032
0.56	0.14	0.55	97.29	0.23	97.06	1.00	0.991	1.021
0.47	0.16	0.53	98.20	0.22	97.98	1.00	0.986	1.025

0.56	0.06	0.35	97.19	0.15	97.04	1.00	0.984	1.031
0.48	0.13	0.46	97.41	0.19	97.21	1.00	0.989	1.026
0.32	0.03	0.58	98.22	0.24	97.97	1.00	0.987	1.022
0.05	0.07	0.68	97.99	0.28	97.70	1.00	0.984	1.019
0.36	0.11	0.44	97.58	0.19	97.40	1.00	0.998	1.014
0.55	0.14	0.36	97.58	0.15	97.43	1.00	0.983	1.037
0.64	0.08	0.34	97.65	0.14	97.51	1.00	0.994	1.031
0.49	0.05	0.52	97.27	0.22	97.05	1.00	0.982	1.030
0.58	0.14	0.43	98.00	0.18	97.82	1.00	0.985	1.028
0.54	0.05	0.48	97.82	0.20	97.62	1.00	0.986	1.025
0.41	0.11	0.48	97.07	0.20	96.87	1.00	0.988	1.025
0.12	0.04	0.85	98.46	0.36	98.11	1.00	0.985	1.017
0.42	0.14	0.68	98.19	0.29	97.90	1.00	0.996	1.023
0.33	0.07	0.62	97.33	0.26	97.07	1.01	0.980	1.026
0.32	0.02	0.73	98.79	0.31	98.48	1.00	0.979	1.031
0.48	0.10	0.64	98.22	0.27	97.96	1.00	0.989	1.032
0.38	0.10	0.69	97.56	0.29	97.27	1.00	0.994	1.016
0.42	0.09	0.52	96.75	0.22	96.53	1.00	0.995	1.057
0.46	0.07	0.52	96.36	0.22	96.14	1.00	0.992	1.061
0.34	0.09	0.65	97.27	0.27	97.00	1.00	0.988	1.042
0.43	0.10	0.65	96.67	0.27	96.39	1.00	0.991	1.047
0.34	0.06	0.59	97.65	0.25	97.40	1.00	0.987	1.048
0.40	0.06	0.52	96.26	0.22	96.04	1.01	0.999	1.025
0.37	0.07	0.60	97.43	0.25	97.17	1.00	0.991	1.040
0.43	0.04	0.46	96.91	0.19	96.72	1.00	1.000	1.051
0.34	0.09	0.59	97.51	0.25	97.26	1.00	1.004	1.028
0.33	0.08	0.78	97.88	0.33	97.55	1.00	0.996	1.023
0.40	0.00	0.57	97.85	0.24	97.61	1.00	0.997	1.044
0.44	0.08	0.53	96.80	0.22	96.57	1.00	0.992	1.057
0.52	0.22	0.44	96.64	0.18	96.45	1.00	0.997	1.059
0.47	0.17	0.45	96.38	0.19	96.19	1.00	1.008	1.042
0.29	0.02	0.60	96.58	0.25	96.33	1.00	0.993	1.016
0.30	0.01	0.65	96.93	0.28	96.66	1.00	0.985	1.019
0.28	0.05	0.64	98.07	0.27	97.80	1.00	0.991	1.017
0.88	0.14	0.48	97.24	0.20	97.04	1.00	0.997	1.036
0.63	0.11	0.59	96.82	0.25	96.57	1.00	0.991	1.035
0.18	0.04	0.74	98.10	0.31	97.79	1.00	0.986	1.017
0.15	0.00	0.85	97.88	0.36	97.53	1.00	0.993	1.011
0.17	0.09	0.74	98.21	0.31	97.90	1.01	0.990	1.004
0.16	0.02	0.80	98.40	0.33	98.06	1.00	0.994	1.010
0.34	0.08	0.55	97.85	0.23	97.62	1.00	1.000	1.024
0.22	0.08	0.68	98.52	0.28	98.24	1.00	0.993	1.016
0.65	0.12	0.49	97.78	0.20	97.58	1.00	0.998	1.045
0.31	0.02	0.69	98.43	0.29	98.14	1.00	0.993	1.013
0.29	0.11	0.65	98.01	0.27	97.73	1.00	0.992	1.019
0.54	0.15	0.33	97.28	0.14	97.14	1.00	1.006	1.054
0.19	0.01	0.45	97.94	0.19	97.75	1.00	0.993	1.040

0.14	0.00	0.56	98.51	0.24	98.27	1.00	0.988	1.029
0.27	0.06	0.59	98.12	0.25	97.87	1.00	0.984	1.054
0.18	0.00	0.52	98.82	0.22	98.60	1.00	0.986	1.024
0.12	0.05	0.52	98.90	0.22	98.68	1.00	0.997	1.018
0.33	0.08	0.74	98.65	0.31	98.34	1.00	0.983	1.043
0.14	0.00	0.58	99.45	0.24	99.21	1.00	0.983	1.024
0.45	0.05	0.76	98.11	0.32	97.79	1.00	0.995	1.024
0.17	0.05	0.57	98.74	0.24	98.50	1.00	0.993	1.015
0.14	0.02	0.60	98.78	0.25	98.53	1.00	0.987	1.022
0.46	0.07	0.73	97.99	0.31	97.68	1.00	0.992	1.027
0.44	0.13	0.78	97.84	0.33	97.51	1.00	0.991	1.028
0.51	0.14	0.45	97.29	0.19	97.09	1.00	0.997	1.078
0.54	0.20	0.63	97.28	0.26	97.01	1.00	0.992	1.055
0.22	0.00	0.50	98.82	0.21	98.61	1.00	0.987	1.017
0.08	0.00	0.59	97.96	0.25	97.71	1.00	0.981	1.027
0.02	0.07	0.53	98.29	0.22	98.06	1.00	0.983	1.019
0.10	0.00	0.57	98.91	0.24	98.67	1.00	0.983	1.032
0.03	0.00	0.69	98.88	0.29	98.60	1.00	0.994	1.014
0.02	0.00	0.67	98.54	0.28	98.26	1.00	0.988	1.012
0.13	0.02	0.62	98.11	0.26	97.85	1.01	0.986	1.016
0.18	0.05	0.58	98.45	0.24	98.21	1.00	0.984	1.027
0.13	0.13	0.64	98.87	0.27	98.60	1.00	0.990	1.021
0.12	0.06	0.69	98.81	0.29	98.52	1.00	0.983	1.021
0.11	0.01	0.62	98.63	0.26	98.37	1.00	0.990	1.015
0.15	0.00	0.52	98.84	0.22	98.62	1.00	0.993	1.012
0.03	0.01	0.65	98.28	0.27	98.01	1.00	0.981	1.021
0.15	0.04	0.62	98.58	0.26	98.32	1.00	0.982	1.019
0.14	0.05	0.53	99.19	0.22	98.97	1.00	0.976	1.032
0.19	0.06	0.48	98.02	0.20	97.81	1.00	0.965	1.046
0.21	0.02	0.30	98.05	0.12	97.92	1.00	0.977	1.040
0.35	0.10	0.31	98.08	0.13	97.95	1.00	0.976	1.043
0.54	0.11	0.46	99.46	0.19	99.27	1.00	0.982	1.026
0.35	0.09	0.59	98.70	0.25	98.46	1.00	0.976	1.040
0.68	0.26	0.30	99.17	0.13	99.05	1.00	0.983	1.030
0.56	0.11	0.29	98.44	0.12	98.32	1.00	0.985	1.025
0.62	0.10	0.26	99.22	0.11	99.11	1.00	0.987	1.024
0.54	0.01	0.39	98.84	0.17	98.68	1.00	0.990	1.020
0.40	0.11	0.49	99.52	0.21	99.31	1.00	0.986	1.021
0.55	0.16	0.44	96.85	0.19	96.66	1.00	0.995	1.011
0.68	0.14	0.53	97.81	0.22	97.59	1.00	0.998	1.011
0.72	0.15	0.42	97.52	0.17	97.35	1.00	0.997	1.009
0.56	0.17	0.46	97.13	0.19	96.94	1.00	0.997	1.018
0.64	0.14	0.53	97.23	0.22	97.01	1.00	0.996	1.019
0.60	0.14	0.55	97.45	0.23	97.22	1.00	0.995	1.020
0.50	0.11	0.54	97.19	0.23	96.96	1.00	0.996	1.022

0.46	0.05	0.57	97.06	0.24	96.82	1.00	0.998	1.019
0.41	0.05	0.59	97.24	0.25	97.00	1.00	0.995	1.025
0.55	0.02	0.38	96.62	0.16	96.45	1.00	0.997	1.060
0.52	0.10	0.44	97.03	0.18	96.84	1.00	0.999	1.053
0.50	0.12	0.59	97.50	0.25	97.25	1.00	0.999	1.023
0.53	0.15	0.51	97.03	0.21	96.81	1.00	0.995	1.017
0.58	0.16	0.52	97.16	0.22	96.94	1.00	0.998	1.013
0.74	0.18	0.44	97.48	0.19	97.30	1.00	0.997	1.009
0.71	0.16	0.54	97.39	0.23	97.16	1.01	0.993	1.009
0.58	0.04	0.44	97.41	0.18	97.22	1.00	0.999	1.010
0.39	0.11	0.49	97.60	0.21	97.40	1.00	0.991	1.021
0.45	0.11	0.49	97.35	0.21	97.14	1.00	0.994	1.017
0.45	0.11	0.49	97.92	0.21	97.71	1.00	0.999	1.016
0.60	0.09	0.50	98.12	0.21	97.91	1.00	0.995	1.019
0.55	0.11	0.47	97.88	0.20	97.68	1.00	0.993	1.024
0.62	0.11	0.50	97.29	0.21	97.08	1.00	1.004	1.008
0.64	0.10	0.47	97.10	0.20	96.90	1.00	1.000	1.017
0.94	0.17	0.32	97.12	0.13	96.99	1.00	1.000	1.028
0.52	0.09	0.55	97.42	0.23	97.19	1.00	1.002	1.011
0.48	0.11	0.46	96.93	0.19	96.74	1.01	0.987	1.011
0.36	0.09	0.54	97.29	0.23	97.06	1.01	0.991	1.007
0.36	0.09	0.47	97.08	0.20	96.88	1.01	0.990	1.008
0.37	0.04	0.49	96.92	0.21	96.72	1.01	0.998	0.997
0.40	0.14	0.44	97.69	0.18	97.50	1.01	0.997	0.997
0.63	0.13	0.41	97.31	0.17	97.14	1.01	1.004	1.004
0.75	0.24	0.37	97.41	0.15	97.26	1.01	1.007	1.000
0.67	0.13	0.34	96.33	0.14	96.18	1.02	0.999	1.001
0.68	0.15	0.30	95.99	0.13	95.86	1.02	0.993	1.003
0.80	0.17	0.39	97.18	0.17	97.02	1.01	0.990	1.008
0.83	0.17	0.41	97.32	0.17	97.15	1.01	0.992	1.008
0.87	0.22	0.37	97.40	0.15	97.25	1.00	0.993	1.017
0.80	0.16	0.43	97.67	0.18	97.49	1.00	0.999	1.008
0.84	0.23	0.41	97.13	0.17	96.96	1.01	0.993	1.011
0.81	0.13	0.45	96.33	0.19	96.14	1.01	0.984	1.016
0.74	0.17	0.46	96.19	0.19	95.99	1.01	0.983	1.016
0.76	0.20	0.48	97.07	0.20	96.86	1.00	0.995	1.011
0.87	0.16	0.30	97.94	0.12	97.82	1.00	0.999	1.015
0.94	0.18	0.25	96.48	0.11	96.37	1.01	0.993	1.017
0.91	0.25	0.31	95.95	0.13	95.82	1.01	0.998	1.010
0.84	0.16	0.44	97.17	0.18	96.98	1.00	0.993	1.015
0.75	0.13	0.49	96.79	0.21	96.58	1.00	1.000	1.008
0.76	0.17	0.47	97.06	0.20	96.86	1.01	0.992	1.012
0.79	0.18	0.45	95.36	0.19	95.17	1.01	0.985	1.020
1.03	0.32	0.25	96.30	0.10	96.20	1.01	0.991	1.023
0.92	0.20	0.24	96.50	0.10	96.39	1.01	0.993	1.015
0.93	0.22	0.28	95.92	0.12	95.80	1.01	0.982	1.030
0.85	0.21	0.44	96.35	0.19	96.16	1.01	0.982	1.021
0.78	0.22	0.48	95.48	0.20	95.28	1.00	0.978	1.027

0.39	0.12	0.54	97.41	0.23	97.19	1.00	0.993	1.014
0.58	0.11	0.44	97.61	0.19	97.42	1.00	0.998	1.006
0.47	0.14	0.49	97.69	0.20	97.49	1.01	0.984	1.021
0.69	0.12	0.42	96.79	0.18	96.61	1.01	0.979	1.022
0.79	0.22	0.42	96.71	0.18	96.53	1.01	0.984	1.018
0.76	0.18	0.41	97.40	0.17	97.23	1.00	0.993	1.015
0.88	0.22	0.38	97.01	0.16	96.85	1.01	0.985	1.017
0.76	0.15	0.34	96.92	0.14	96.77	1.00	0.982	1.028
0.81	0.17	0.45	96.99	0.19	96.80	1.01	0.981	1.021
0.66	0.15	0.48	97.34	0.20	97.14	1.00	0.988	1.025
0.78	0.16	0.45	96.43	0.19	96.24	1.01	0.976	1.028
0.77	0.20	0.43	95.63	0.18	95.44	1.02	0.965	1.031
0.81	0.22	0.43	96.59	0.18	96.41	1.01	0.969	1.030
0.95	0.25	0.35	96.74	0.15	96.59	1.01	0.982	1.024
0.87	0.17	0.40	96.42	0.17	96.25	1.01	0.984	1.017
0.88	0.22	0.46	95.25	0.19	95.06	1.01	0.985	1.015
0.57	0.08	0.49	96.96	0.21	96.75	1.01	0.972	1.031
0.63	0.16	0.47	97.18	0.20	96.98	1.01	0.973	1.028
0.41	0.00	0.46	96.36	0.19	96.16	1.02	0.975	1.015
0.10	0.09	0.40	96.28	0.17	96.11	1.03	0.998	0.983
0.12	0.10	0.46	96.91	0.19	96.72	1.01	1.004	0.993
0.00	0.18	0.53	97.37	0.22	97.15	1.01	1.000	1.003
0.31	0.14	0.37	97.43	0.16	97.27	1.00	1.002	1.017
0.06	0.09	0.31	96.97	0.13	96.84	1.00	1.002	1.023
0.07	0.18	0.32	96.97	0.13	96.83	1.00	1.005	1.020
0.28	0.20	0.51	97.70	0.22	97.49	1.01	1.001	1.007
0.11	0.10	0.52	97.45	0.22	97.23	1.00	1.007	1.003
0.01	0.12	0.60	97.34	0.25	97.09	1.03	0.995	0.989
0.00	0.13	0.58	95.90	0.24	95.65	1.00	1.002	1.009
0.00	0.13	0.48	97.60	0.20	97.39	1.00	1.004	1.002
0.11	0.18	0.32	97.23	0.13	97.10	1.00	1.006	1.023
0.00	0.18	0.53	97.49	0.22	97.27	1.00	1.009	1.002
0.06	0.13	0.40	96.80	0.17	96.63	1.00	1.010	1.005
0.02	0.13	0.55	96.77	0.23	96.54	1.01	1.007	0.997
0.02	0.11	0.51	97.89	0.22	97.68	1.00	1.011	0.994
0.11	0.09	0.41	98.14	0.17	97.97	1.00	1.007	1.004
0.00	0.11	0.36	97.70	0.15	97.55	1.00	1.016	0.995
0.03	0.12	0.39	97.94	0.16	97.78	1.00	1.027	0.985
0.01	0.06	0.54	98.27	0.23	98.04	1.00	1.001	1.005
0.15	0.07	0.32	97.80	0.13	97.67	1.00	1.009	1.001
0.15	0.07	0.40	97.80	0.17	97.63	1.00	1.004	1.005
0.03	0.09	0.36	97.50	0.15	97.34	1.00	1.005	1.006
0.05	0.06	0.33	97.68	0.14	97.54	1.00	1.007	1.007
0.00	0.12	0.51	98.56	0.22	98.34	1.00	1.001	1.008
0.11	0.09	0.43	97.95	0.18	97.77	1.00	1.004	1.006
0.10	0.08	0.44	97.38	0.18	97.20	1.00	1.004	1.006
0.12	0.17	0.33	96.67	0.14	96.53	1.00	1.008	1.013
0.00	0.15	0.43	96.72	0.18	96.54	1.00	1.002	1.010

0.00	0.13	0.49	97.78	0.21	97.58	1.00	1.001	1.010
0.03	0.08	0.60	97.96	0.25	97.71	1.00	1.003	1.014
0.11	0.00	0.81	98.34	0.34	98.00	1.00	1.002	1.002
0.02	0.07	0.43	97.63	0.18	97.45	1.00	1.009	1.007
0.01	0.03	0.47	98.01	0.20	97.81	1.00	1.000	1.016
0.00	0.00	0.64	97.48	0.27	97.21	1.01	0.987	1.000
0.27	0.05	0.53	97.33	0.22	97.11	1.00	0.996	1.010
0.32	0.08	0.48	97.60	0.20	97.39	1.00	1.002	1.007
0.47	0.11	0.48	97.53	0.20	97.33	1.00	0.997	1.009
0.49	0.12	0.43	97.86	0.18	97.68	1.00	0.997	1.015
0.44	0.12	0.48	98.38	0.20	98.18	1.00	0.998	1.013
0.37	0.06	0.51	97.76	0.21	97.54	1.00	1.000	1.008
0.93	0.25	0.42	97.57	0.18	97.39	1.00	0.996	1.008
0.59	0.15	0.47	97.49	0.20	97.29	1.00	0.997	1.011
1.06	0.26	0.42	97.20	0.17	97.03	1.00	0.999	1.008
0.39	0.11	0.46	97.85	0.19	97.66	1.00	0.993	1.017
0.53	0.09	0.46	97.85	0.19	97.66	1.00	1.002	1.006
0.65	0.18	0.44	97.91	0.19	97.72	1.00	0.995	1.015
0.51	0.14	0.48	97.90	0.20	97.70	1.00	0.992	1.016
0.47	0.06	0.47	97.75	0.20	97.56	1.00	1.001	1.007
0.32	0.03	0.56	98.01	0.24	97.78	1.00	0.997	1.017
0.37	0.07	0.53	98.54	0.22	98.31	1.00	0.993	1.017
0.49	0.08	0.53	98.34	0.22	98.12	1.00	0.992	1.017
0.41	0.12	0.47	98.11	0.20	97.91	1.00	0.993	1.015
0.75	0.22	0.27	97.97	0.11	97.85	1.00	1.002	1.014
0.84	0.21	0.27	97.73	0.11	97.61	1.00	1.001	1.012
0.63	0.20	0.39	97.99	0.16	97.83	1.00	0.998	1.014
0.49	0.04	0.49	97.54	0.20	97.33	1.00	0.992	1.019
0.54	0.11	0.43	98.27	0.18	98.09	1.00	0.995	1.016
0.59	0.10	0.42	98.03	0.18	97.85	1.00	0.999	1.012
0.44	0.14	0.57	98.40	0.24	98.16	1.00	0.992	1.020
0.23	0.08	0.59	98.82	0.25	98.57	1.00	0.995	1.022
0.35	0.01	0.75	97.57	0.32	97.25	1.00	0.998	1.022
0.56	0.19	0.54	98.18	0.23	97.95	1.00	0.990	1.021
0.50	0.09	0.48	98.01	0.20	97.81	1.00	0.994	1.020
0.79	0.17	0.53	98.21	0.22	97.99	1.00	0.991	1.020
0.68	0.09	0.57	98.19	0.24	97.95	1.00	1.004	1.012
0.57	0.13	0.58	97.66	0.24	97.42	1.00	0.986	1.027
0.48	0.14	0.42	98.29	0.18	98.12	1.00	1.016	1.005
0.62	0.15	0.49	98.06	0.21	97.85	1.00	0.997	1.022
0.70	0.17	0.51	98.03	0.21	97.82	1.00	0.997	1.024
0.79	0.10	0.51	97.61	0.22	97.40	1.00	0.994	1.020
0.65	0.09	0.54	98.17	0.23	97.94	1.00	0.998	1.013
0.25	0.04	0.59	97.79	0.25	97.54	1.00	0.999	1.014
0.14	0.09	0.50	98.08	0.21	97.87	1.00	1.002	1.039
0.10	0.01	0.52	98.29	0.22	98.07	1.00	1.001	1.040
0.16	0.07	0.57	98.46	0.24	98.22	1.00	0.997	1.031
0.30	0.06	0.56	98.89	0.24	98.65	1.00	0.993	1.026

0.32	0.06	0.45	98.55	0.19	98.36	1.00	0.988	1.028
0.32	0.02	0.49	98.37	0.21	98.16	1.00	0.988	1.025
0.51	0.14	0.51	99.00	0.21	98.79	1.00	0.999	1.013
0.87	0.23	0.31	97.58	0.13	97.45	1.00	0.999	1.015
0.62	0.14	0.35	98.23	0.15	98.08	1.00	0.994	1.025
0.59	0.07	0.31	97.41	0.13	97.28	1.00	1.016	1.007
0.35	0.18	0.41	99.27	0.17	99.10	1.00	0.995	1.020
0.41	0.04	0.38	98.50	0.16	98.33	1.00	0.994	1.020
0.60	0.13	0.54	98.67	0.23	98.44	1.00	0.997	1.011
0.42	0.10	0.55	98.78	0.23	98.55	1.00	0.996	1.014
0.10	0.01	0.65	98.22	0.27	97.94	1.00	0.992	1.038
0.22	0.01	0.80	96.49	0.34	96.16	1.00	1.072	0.935
0.22	0.03	0.70	98.74	0.29	98.44	1.00	1.005	1.001
0.06	0.00	0.59	99.07	0.25	98.82	1.00	1.002	1.002
0.34	0.08	0.53	98.37	0.22	98.14	1.00	0.986	1.027
0.38	0.02	0.50	98.15	0.21	97.94	1.00	0.996	1.013
0.44	0.11	0.39	97.15	0.16	96.99	1.00	0.997	1.011
0.68	0.11	0.43	97.42	0.18	97.24	1.00	0.995	1.015
0.46	0.03	0.41	97.01	0.17	96.83	1.00	0.986	1.026
0.52	0.06	0.41	97.45	0.17	97.28	1.00	0.992	1.021
0.51	0.08	0.41	98.00	0.17	97.83	1.00	0.997	1.017
0.53	0.15	0.33	98.21	0.14	98.07	1.00	1.002	1.015
0.51	0.14	0.40	97.44	0.17	97.27	1.00	0.989	1.028
0.47	0.08	0.42	97.98	0.17	97.80	1.00	0.982	1.037
0.34	0.05	0.55	97.16	0.23	96.93	1.00	0.993	1.023
0.46	0.10	0.35	96.85	0.15	96.70	1.00	0.993	1.022
0.58	0.13	0.35	96.59	0.15	96.44	1.00	0.994	1.038
0.53	0.11	0.38	96.36	0.16	96.19	1.00	0.997	1.034
0.37	0.10	0.60	96.47	0.25	96.22	1.00	0.990	1.021
0.43	0.05	0.52	98.03	0.22	97.81	1.00	0.994	1.019
0.35	0.08	0.49	98.38	0.21	98.18	1.00	0.989	1.026
0.32	0.06	0.49	98.59	0.21	98.38	1.00	1.000	1.016
0.29	0.02	0.50	97.83	0.21	97.61	1.00	0.998	1.015
0.35	0.04	0.41	98.68	0.17	98.50	1.00	0.992	1.020
0.20	0.04	0.45	98.39	0.19	98.20	1.00	0.989	1.021
0.30	0.04	0.46	98.11	0.19	97.92	1.00	0.991	1.019
0.51	0.15	0.43	97.69	0.18	97.51	1.00	0.990	1.029
0.43	0.04	0.39	97.74	0.17	97.57	1.00	0.988	1.030
0.53	0.09	0.37	98.08	0.16	97.93	1.00	0.990	1.028
0.44	0.11	0.35	97.65	0.15	97.50	1.00	0.995	1.024
0.46	0.02	0.43	98.01	0.18	97.83	1.00	0.984	1.027
0.52	0.05	0.47	97.64	0.20	97.44	1.00	0.986	1.024
0.48	0.05	0.50	96.96	0.21	96.75	1.00	0.996	1.012
0.41	0.01	0.53	97.92	0.22	97.69	1.00	0.990	1.023
0.43	0.09	0.60	98.00	0.25	97.75	1.00	0.993	1.021
0.41	0.05	0.63	98.90	0.26	98.63	1.00	0.993	1.021
0.53	0.11	0.45	98.67	0.19	98.48	1.00	0.999	1.014
0.50	0.11	0.50	98.57	0.21	98.36	1.00	0.991	1.022

0.48	0.14	0.51	98.67	0.21	98.46	1.00	0.988	1.026
0.52	0.13	0.49	98.68	0.21	98.47	1.00	0.993	1.018
0.52	0.08	0.48	98.52	0.20	98.31	1.00	0.996	1.019
0.48	0.14	0.54	98.52	0.23	98.29	1.00	0.994	1.021
0.57	0.21	0.34	98.09	0.14	97.94	1.00	0.994	1.028
0.57	0.13	0.42	98.62	0.18	98.45	1.00	0.998	1.018
0.70	0.12	0.48	98.32	0.20	98.11	1.00	0.993	1.018
0.57	0.12	0.54	98.18	0.23	97.95	1.00	0.992	1.018
0.56	0.13	0.46	98.23	0.19	98.04	1.00	1.004	1.015
0.59	0.15	0.39	98.48	0.16	98.32	1.00	1.003	1.015
0.51	0.12	0.48	98.87	0.20	98.67	1.00	1.002	1.012
0.58	0.06	0.51	97.91	0.21	97.70	1.00	0.999	1.014
0.55	0.15	0.36	98.67	0.15	98.52	1.00	0.994	1.023
0.68	0.10	0.41	98.51	0.17	98.34	1.00	0.994	1.022
0.62	0.13	0.37	98.73	0.16	98.58	1.00	0.995	1.023
0.62	0.10	0.34	98.35	0.14	98.20	1.00	0.993	1.023
0.80	0.19	0.33	98.60	0.14	98.46	1.00	0.998	1.022
0.76	0.17	0.28	97.98	0.12	97.86	1.00	0.999	1.016
0.69	0.12	0.34	98.23	0.14	98.09	1.00	0.993	1.029
0.61	0.16	0.34	98.47	0.14	98.32	1.00	0.990	1.030
0.60	0.14	0.49	98.65	0.21	98.45	1.00	0.996	1.016
0.52	0.14	0.55	97.23	0.23	96.99	1.00	0.996	1.014
0.64	0.14	0.52	98.22	0.22	98.00	1.00	0.994	1.018
0.69	0.14	0.51	98.16	0.22	97.94	1.00	0.997	1.012
0.96	0.21	0.43	98.19	0.18	98.01	1.00	0.999	1.012
1.05	0.22	0.31	97.87	0.13	97.74	1.00	1.000	1.016
1.20	0.32	0.32	97.63	0.14	97.49	1.00	1.000	1.023
0.16	0.00	0.62	98.76	0.26	98.50	1.00	0.988	1.014
0.56	0.20	0.52	97.85	0.22	97.63	1.01	0.994	1.019
0.10	0.01	0.92	98.76	0.39	98.38	1.01	0.985	1.006
0.91	0.25	0.48	98.19	0.20	97.99	1.00	0.994	1.018
0.30	0.13	0.69	98.93	0.29	98.64	1.01	0.987	1.017
0.26	0.05	0.68	98.84	0.29	98.55	1.01	0.983	1.017
0.58	0.13	0.45	98.34	0.19	98.15	1.01	0.991	1.026
0.68	0.23	0.45	97.98	0.19	97.79	1.01	0.987	1.022
0.07	0.00	0.93	98.18	0.39	97.79	1.02	0.983	0.996
0.80	0.21	0.51	97.06	0.21	96.85	1.00	0.991	1.018
0.27	0.05	0.52	98.05	0.22	97.83	1.00	0.992	1.013
0.05	0.00	0.72	98.22	0.30	97.92	1.00	0.991	1.012
0.23	0.07	0.67	98.82	0.28	98.54	1.01	0.987	1.008
0.74	0.20	0.43	97.01	0.18	96.82	1.01	0.995	1.015
0.37	0.12	0.54	98.15	0.23	97.93	1.01	0.995	1.014
1.00	0.23	0.50	97.13	0.21	96.92	1.01	0.995	1.002
0.67	0.14	0.49	97.69	0.20	97.49	1.01	1.000	1.007
1.05	0.26	0.42	96.84	0.18	96.66	1.00	0.993	1.017
0.73	0.23	0.41	97.30	0.17	97.12	1.00	0.997	1.017
1.05	0.23	0.30	97.03	0.13	96.90	1.00	0.997	1.027
0.79	0.18	0.49	97.35	0.21	97.14	1.00	0.998	1.015

0.70	0.16	0.44	97.81	0.18	97.62	1.00	0.996	1.011
0.23	0.06	0.65	97.77	0.27	97.50	1.00	0.999	1.007
0.34	0.05	0.65	97.94	0.27	97.66	1.00	1.000	1.022
0.53	0.15	0.65	98.31	0.27	98.03	1.00	0.998	1.016
0.58	0.11	0.61	98.26	0.26	98.01	1.00	1.006	1.008
0.73	0.15	0.50	97.55	0.21	97.34	1.00	0.999	1.024
0.63	0.16	0.42	97.93	0.17	97.75	1.00	1.010	1.025
0.62	0.19	0.44	97.78	0.19	97.59	1.00	1.005	1.020
0.46	0.14	0.63	97.76	0.27	97.49	1.00	0.994	1.024
0.67	0.14	0.44	97.71	0.19	97.52	1.00	1.006	1.017
0.48	0.07	0.60	97.96	0.25	97.70	1.00	1.002	1.014
0.61	0.14	0.54	97.69	0.23	97.47	1.00	1.003	1.014
0.68	0.18	0.50	98.12	0.21	97.91	1.00	0.998	1.018
0.50	0.12	0.50	97.61	0.21	97.41	1.00	1.002	1.019
0.62	0.08	0.51	97.41	0.21	97.20	1.00	1.006	1.015
0.42	0.09	0.57	98.27	0.24	98.03	1.00	1.001	1.003
0.22	0.00	0.77	98.20	0.32	97.88	1.00	0.995	1.010
0.23	0.06	0.77	98.06	0.32	97.74	1.01	0.992	1.004
0.34	0.02	0.69	98.64	0.29	98.35	1.00	0.990	1.018
0.28	0.04	0.67	98.15	0.28	97.87	1.00	0.994	1.024
0.13	0.03	0.61	98.35	0.26	98.09	1.00	1.000	1.047
0.30	0.02	0.58	98.61	0.25	98.36	1.00	1.001	1.032
0.28	0.10	0.33	98.25	0.14	98.11	1.00	1.004	1.068
0.31	0.11	0.43	98.95	0.18	98.77	1.00	1.004	1.028
0.65	0.12	0.42	98.06	0.18	97.88	1.00	1.012	1.038
0.38	0.02	0.61	98.43	0.26	98.18	1.00	1.003	1.009
0.22	0.04	0.63	99.47	0.27	99.21	1.00	0.994	1.011
0.55	0.12	0.52	98.00	0.22	97.78	1.00	1.000	1.034
0.05	0.01	0.72	96.46	0.30	96.16	1.00	0.995	1.006
0.11	0.00	0.64	97.44	0.27	97.17	1.00	0.991	1.014
0.06	0.03	0.62	96.74	0.26	96.48	1.01	0.980	1.018
0.15	0.03	0.62	96.03	0.26	95.77	1.02	0.963	1.032
0.12	0.03	0.56	97.06	0.24	96.82	1.00	0.993	1.008
0.59	0.05	0.50	97.33	0.21	97.12	1.00	1.002	1.022
0.38	0.03	0.52	97.67	0.22	97.45	1.00	0.999	1.027
0.49	0.02	0.49	97.60	0.21	97.39	1.00	0.997	1.035
0.53	0.10	0.38	97.38	0.16	97.21	1.00	0.999	1.052
0.16	0.05	0.56	97.63	0.23	97.39	1.01	0.983	1.017
0.35	0.13	0.47	97.76	0.20	97.57	1.01	0.997	1.005
0.27	0.05	0.64	97.82	0.27	97.55	1.01	0.993	1.007
0.30	0.10	0.65	96.97	0.27	96.70	1.00	0.997	1.009
0.29	0.07	0.65	98.07	0.27	97.80	1.01	0.990	1.008
0.60	0.15	0.58	97.15	0.24	96.90	1.00	1.002	1.007
0.59	0.10	0.62	97.14	0.26	96.87	1.01	0.996	1.010
0.42	0.10	0.64	97.40	0.27	97.13	1.00	0.994	1.035
0.82	0.00	0.51	97.35	0.21	97.14	1.00	0.999	1.051

0.21	0.03	0.67	98.57	0.28	98.29	1.00	0.987	1.020
0.27	0.03	0.69	98.87	0.29	98.58	1.00	0.999	1.018
0.24	0.04	0.55	98.30	0.23	98.06	1.00	0.996	1.021
0.08	0.04	0.55	98.99	0.23	98.76	1.00	0.999	1.010
0.30	0.06	0.66	98.61	0.28	98.34	1.00	0.991	1.023
0.33	0.05	0.57	98.86	0.24	98.62	1.00	0.999	1.014
0.29	0.05	0.44	98.33	0.18	98.15	1.00	0.996	1.049
0.55	0.09	0.55	98.50	0.23	98.27	1.00	0.994	1.021
0.17	0.04	0.65	98.70	0.27	98.43	1.00	0.994	1.017
0.08	0.00	0.65	99.09	0.27	98.82	1.00	0.991	1.016
0.04	0.00	0.80	99.06	0.34	98.72	1.00	0.997	1.006
0.13	0.06	0.70	99.38	0.29	99.09	1.00	0.997	1.016
0.20	0.00	0.61	98.55	0.26	98.29	1.00	0.988	1.022
0.15	0.04	0.61	98.57	0.26	98.31	1.00	0.989	1.017
0.18	0.00	0.47	98.39	0.20	98.19	1.00	1.000	1.030
0.16	0.06	0.58	99.19	0.25	98.94	1.00	0.995	1.023
0.14	0.06	0.54	99.07	0.23	98.84	1.00	0.993	1.015
0.09	0.01	0.68	98.74	0.29	98.45	1.00	0.999	1.008
0.22	0.02	0.89	98.12	0.38	97.75	1.00	0.998	1.006
0.05	0.04	0.58	96.97	0.24	96.72	1.02	1.050	0.939
0.26	0.11	0.58	98.67	0.25	98.42	1.00	0.995	1.010
0.46	0.07	0.58	99.25	0.25	99.01	1.00	0.996	1.014
0.12	0.03	0.55	99.08	0.23	98.85	1.00	1.006	1.007
0.26	0.09	0.47	98.85	0.20	98.65	1.00	0.997	1.035
0.11	0.03	0.51	99.21	0.21	98.99	1.00	0.992	1.014
0.65	0.10	0.53	98.78	0.22	98.56	1.00	1.002	1.006
0.44	0.23	0.46	98.12	0.19	97.93	1.00	0.990	1.099
0.35	0.04	0.67	99.80	0.28	99.52	1.00	0.990	1.043
0.39	0.10	0.61	99.51	0.26	99.25	1.00	0.984	1.036
0.13	0.02	0.73	99.92	0.31	99.61	1.00	0.982	1.022
0.24	0.01	0.76	100.42	0.32	100.09	1.00	0.978	1.027
0.21	0.02	0.80	100.09	0.34	99.75	1.00	0.981	1.025
0.44	0.16	0.52	97.93	0.22	97.71	1.00	0.998	1.052
0.19	0.00	0.75	99.94	0.32	99.62	1.00	0.983	1.030
0.71	0.21	0.50	98.53	0.21	98.32	1.00	0.992	1.018
0.40	0.18	0.62	99.48	0.26	99.22	1.00	0.985	1.022
0.35	0.08	0.56	97.78	0.23	97.55	1.00	0.991	1.056
0.21	0.06	0.63	99.24	0.26	98.98	1.00	0.978	1.032
0.14	0.10	0.74	99.38	0.31	99.07	1.00	0.989	1.011
0.25	0.00	0.64	98.35	0.27	98.08	1.00	0.979	1.023
0.48	0.07	0.58	98.07	0.25	97.83	1.00	0.994	1.014
0.62	0.16	0.52	97.74	0.22	97.52	1.00	0.995	1.015
0.27	0.02	0.55	98.38	0.23	98.14	1.00	0.994	1.012
0.38	0.12	0.71	98.27	0.30	97.97	1.00	0.987	1.019
0.12	0.09	0.74	99.86	0.31	99.55	1.00	0.986	1.014
0.12	0.02	0.65	99.50	0.27	99.23	1.00	0.986	1.017

0.21	0.05	0.63	99.41	0.27	99.14	1.00	0.981	1.020
0.33	0.04	0.54	98.62	0.23	98.39	1.00	0.975	1.043
0.38	0.01	0.66	98.29	0.28	98.01	1.00	0.965	1.056
0.66	0.17	0.36	98.21	0.15	98.06	1.00	0.981	1.029
0.00	0.02	0.75	99.57	0.32	99.25	1.00	0.984	1.016
0.45	0.16	0.43	98.96	0.18	98.78	1.00	0.994	1.015
0.44	0.16	0.44	97.99	0.19	97.80	1.00	0.948	1.076
0.44	0.07	0.56	98.94	0.24	98.70	1.00	0.975	1.034
0.09	0.00	0.86	99.83	0.36	99.47	1.00	0.983	1.018
0.34	0.07	0.44	98.11	0.18	97.93	1.00	0.952	1.054
0.52	0.21	0.52	98.58	0.22	98.37	1.00	0.994	1.037
0.27	0.18	0.37	97.82	0.15	97.67	1.00	0.954	1.072
0.27	0.16	0.59	97.72	0.25	97.47	1.00	0.977	1.049
0.20	0.07	0.85	98.93	0.36	98.58	1.00	0.979	1.025
0.42	0.03	0.53	98.88	0.22	98.66	1.00	0.987	1.060
0.16	0.04	0.68	98.98	0.29	98.69	1.00	0.980	1.036
0.41	0.03	0.53	98.62	0.22	98.40	1.00	0.987	1.046
0.05	0.01	0.75	99.64	0.32	99.33	1.00	0.973	1.032
0.18	0.00	0.68	99.15	0.29	98.87	1.00	0.983	1.031
0.31	0.00	0.55	99.10	0.23	98.86	1.00	0.989	1.024
0.06	0.11	0.83	100.47	0.35	100.12	1.00	0.983	1.023
0.34	0.05	0.59	99.41	0.25	99.16	1.00	0.990	1.021
0.02	0.07	0.60	99.07	0.25	98.82	1.00	0.970	1.036
0.17	0.11	0.83	100.68	0.35	100.33	1.00	0.985	1.023
0.11	0.00	0.84	100.61	0.35	100.26	1.00	0.989	1.012
0.25	0.04	0.74	99.62	0.31	99.31	1.00	0.991	1.022
0.45	0.12	0.53	99.37	0.22	99.14	1.00	0.995	1.020
0.15	0.00	0.49	99.69	0.21	99.48	1.00	0.991	1.026
0.54	0.18	0.53	99.01	0.22	98.79	1.00	1.004	1.008
0.26	0.06	0.69	99.12	0.29	98.83	1.00	0.997	1.022
0.00	0.02	0.87	100.64	0.37	100.27	1.00	0.988	1.013
0.27	0.12	0.71	99.64	0.30	99.34	1.00	0.990	1.019
0.55	0.17	0.61	99.39	0.26	99.14	1.00	0.994	1.018
0.30	0.17	0.61	99.61	0.26	99.35	1.00	0.992	1.025
0.48	0.10	0.49	98.85	0.21	98.64	1.00	1.010	1.018
0.73	0.00	0.34	98.27	0.14	98.13	1.00	0.999	1.020
0.56	0.17	0.57	99.30	0.24	99.06	1.00	0.996	1.016
0.04	0.00	0.76	99.02	0.32	98.70	1.00	0.988	1.013
0.58	0.15	0.56	98.71	0.24	98.47	1.00	0.999	1.011
0.11	0.00	0.86	99.42	0.36	99.06	1.00	0.986	1.015
0.14	0.01	0.79	98.87	0.33	98.54	1.00	0.992	1.009
0.24	0.09	0.75	98.90	0.31	98.59	1.00	0.988	1.022
0.32	0.09	0.59	98.79	0.25	98.54	1.00	0.995	1.020
0.47	0.10	0.41	99.06	0.17	98.89	1.00	0.999	1.018
0.39	0.10	0.54	99.42	0.23	99.19	1.00	0.994	1.022

0.13	0.00	0.75	100.23	0.31	99.92	1.00	0.996	1.011
0.01	0.05	0.73	100.52	0.31	100.21	1.00	0.988	1.016
0.53	0.03	0.54	99.20	0.23	98.97	1.00	1.007	1.033
0.03	0.00	0.77	99.97	0.32	99.65	1.00	0.995	1.011
0.00	0.00	0.93	100.89	0.39	100.50	1.00	1.004	0.998
0.03	0.00	0.90	100.94	0.38	100.57	1.00	0.995	1.007
0.37	0.00	0.68	100.20	0.29	99.92	1.00	0.998	1.019
0.33	0.34	0.62	100.10	0.26	99.84	1.00	1.004	1.014
0.05	0.00	0.55	102.42	0.23	102.19	1.00	1.008	0.992
0.05	0.17	0.95	101.52	0.40	101.12	1.00	1.006	0.997
0.27	0.00	0.59	100.99	0.25	100.74	1.00	1.006	1.009
0.57	0.10	0.58	101.20	0.25	100.96	1.00	1.013	1.021
0.15	0.22	0.64	101.12	0.27	100.85	1.00	0.990	1.033
0.53	0.01	0.47	99.84	0.20	99.64	1.00	1.002	1.055
0.70	0.16	0.42	100.45	0.18	100.28	1.00	0.994	1.048
0.34	0.00	0.54	99.44	0.23	99.22	1.00	0.993	1.023
0.23	0.03	0.77	100.35	0.33	100.03	1.00	0.982	1.023
0.11	0.00	0.88	101.47	0.37	101.10	1.00	0.987	1.019
0.02	0.01	0.78	101.70	0.33	101.37	1.00	1.008	0.997
0.54	0.08	0.45	99.92	0.19	99.73	1.00	0.997	1.035
0.18	0.11	0.67	100.78	0.28	100.49	1.00	0.988	1.028
0.58	0.20	0.60	101.35	0.25	101.10	1.00	0.993	1.023
0.03	0.00	0.46	98.99	0.19	98.80	1.00	0.992	1.051
0.60	0.20	0.38	100.26	0.16	100.09	1.00	0.996	1.029
0.26	0.00	0.78	101.74	0.33	101.41	1.00	0.986	1.020
0.02	0.00	0.67	101.39	0.28	101.11	1.00	0.978	1.024
0.11	0.00	0.80	101.18	0.34	100.84	1.00	0.989	1.019
0.06	0.00	0.79	99.88	0.33	99.54	1.00	0.990	1.017
0.02	0.08	0.95	101.00	0.40	100.60	1.00	0.991	1.012
0.00	0.00	0.83	100.42	0.35	100.07	1.00	0.995	1.008
0.03	0.05	0.89	101.25	0.38	100.87	1.00	0.985	1.015
0.16	0.01	0.67	101.21	0.28	100.93	1.00	0.990	1.016
0.00	0.03	0.77	102.40	0.32	102.08	1.00	0.996	1.005
0.00	0.11	0.83	101.50	0.35	101.15	1.00	0.987	1.017
0.48	0.15	0.39	98.53	0.16	98.37	1.00	1.004	1.039
0.06	0.00	0.95	100.14	0.40	99.74	1.00	0.994	1.005
0.00	0.00	0.84	100.06	0.35	99.70	1.00	0.999	1.002
0.37	0.05	0.65	98.94	0.27	98.67	1.00	1.003	1.013
0.01	0.00	0.88	99.53	0.37	99.16	1.00	0.999	1.001
0.47	0.22	0.58	99.30	0.24	99.05	1.00	0.992	1.023
0.11	0.18	0.77	100.85	0.33	100.52	1.00	0.979	1.021
0.00	0.05	0.86	101.30	0.36	100.94	1.00	0.994	1.006
0.13	0.00	0.68	99.59	0.28	99.30	1.00	0.999	1.015
0.48	0.17	0.55	98.27	0.23	98.04	1.00	1.006	1.004
0.51	0.00	0.48	98.54	0.20	98.34	1.00	0.998	1.016
0.71	0.13	0.34	98.60	0.14	98.46	1.00	1.005	1.010

0.06	0.03	0.38	98.42	0.16	98.26	1.01	0.986	1.010	
0.33	0.08	0.80	97.93	0.34	97.59	1.00	0.995	1.005	
0.65	0.23	0.72	97.65	0.30	97.35	1.00	0.990	1.007	
0.69	0.13	0.45	96.53	0.19	96.34	1.01	0.987	1.007	
0.79	0.23	0.40	96.59	0.17	96.42	1.01	0.985	1.008	
0.73	0.10	0.54	96.98	0.23	96.76	1.00	0.987	1.012	
0.24	0.01	0.72	98.15	0.30	97.85	1.00	0.988	1.012	
0.27	0.02	0.61	96.95	0.26	96.70	1.00	0.981	1.019	
0.26	0.00	0.57	97.49	0.24	97.25	1.00	0.998	1.002	
0.00	0.05	0.25	98.74	0.10	98.63	1.00	0.977	1.024	
0.68	0.15	0.58	97.67	0.24	97.43	1.00	0.982	1.016	
0.71	0.24	0.49	96.58	0.21	96.37	1.00	0.987	1.012	
0.00	0.15	0.62	96.54	0.26	96.28	1.00	0.994	1.006	
0.84	0.18	0.53	96.68	0.22	96.46	1.00	0.989	1.010	
0.53	0.14	0.82	98.16	0.35	97.81	1.00	0.990	1.010	
0.17	0.03	0.45	98.61	0.19	98.42	1.00	0.988	1.011	
0.49	0.08	0.51	97.10	0.21	96.88	1.00	0.984	1.015	
0.38	0.07	0.53	98.29	0.22	98.07	1.00	0.984	1.016	
0.43	0.00	0.57	97.42	0.24	97.18	1.00	0.985	1.016	
0.18	0.00	0.34	99.27	0.14	99.13	1.00	0.986	1.014	
0.14	0.01	0.46	99.29	0.19	99.10	1.00	0.984	1.016	
0.22	0.07	0.50	99.37	0.21	99.16	1.00	0.977	1.023	
0.27	0.04	0.50	99.52	0.21	99.31	1.00	0.987	1.013	
0.23	0.00	0.58	99.33	0.25	99.09	1.00	0.987	1.013	
0.30	0.11	0.50	99.50	0.21	99.29	1.00	0.983	1.018	
0.29	0.00	0.48	99.15	0.20	98.95	1.00	0.982	1.017	
0.22	0.11	0.72	100.27	0.30	99.97	1.00	0.990	1.010	
0.18	0.04	0.66	99.70	0.28	99.43	1.00	0.989	1.011	
0.27	0.10	0.53	98.94	0.22	98.72	1.00	0.988	1.012	
0.25	0.00	0.55	98.69	0.23	98.46	1.00	0.990	1.010	
0.12	0.11	0.76	100.21	0.32	99.89	1.00	0.992	1.008	
0.13	0.09	0.63	99.46	0.26	99.20	1.00	0.984	1.016	
0.18	0.00	0.00	99.30	0.00	99.30	1.00	0.980	1.020	
0.22	0.00	0.58	99.12	0.25	98.87	1.00	0.983	1.017	
0.28	0.00	0.56	99.36	0.23	99.12	1.00	0.989	1.011	
0.24	0.03	0.47	99.40	0.20	99.20	1.00	0.977	1.023	
0.29	0.02	0.45	99.39	0.19	99.20	1.00	0.981	1.018	
0.29	0.00	0.58	99.72	0.24	99.47	1.00	0.986	1.015	
0.23	0.01	0.58	99.42	0.24	99.18	1.00	0.984	1.016	
0.19	0.00	0.66	99.71	0.28	99.43	1.00	0.984	1.015	
0.21	0.00	0.62	99.46	0.26	99.20	1.00	0.978	1.022	
0.25	0.06	0.50	99.35	0.21	99.14	1.00	0.981	1.019	
0.18	0.13	0.55	99.43	0.23	99.20	1.00	0.982	1.019	
0.27	0.06	0.63	99.72	0.27	99.45	1.00	0.975	1.024	
0.17	0.02	0.55	98.00	0.23	97.77	1.00	0.989	1.010	
0.34	0.06	0.80	98.50	0.34	98.16	1.00	0.981	1.020	
0.59	0.14	0.65	97.51	0.27	97.24	1.00	0.983	1.017	

0.48	0.06	0.54	98.66	0.23	98.43	1.00	0.974	1.026
0.20	0.00	0.51	98.92	0.22	98.71	1.00	0.977	1.024
0.17	0.00	0.61	99.05	0.26	98.79	1.00	0.977	1.023
0.19	0.04	0.72	99.39	0.30	99.09	1.00	0.982	1.017
0.37	0.13	0.56	98.24	0.24	98.00	1.00	0.978	1.022
0.72	0.08	0.51	97.84	0.22	97.63	1.00	0.982	1.017
0.18	0.14	0.58	98.71	0.24	98.46	1.00	0.968	1.033
0.06	0.00	0.53	99.69	0.22	99.47	1.00	0.974	1.026
0.25	0.04	0.57	99.32	0.24	99.08	1.00	0.972	1.029
0.35	0.06	0.43	99.25	0.18	99.07	1.00	0.974	1.026
0.29	0.00	0.52	98.26	0.22	98.04	1.00	0.978	1.022
0.33	0.00	0.65	99.61	0.28	99.33	1.00	0.973	1.028
0.13	0.08	0.66	99.39	0.28	99.12	1.00	0.978	1.023
0.19	0.00	0.61	99.44	0.26	99.18	1.00	0.975	1.025
0.34	0.07	0.56	99.72	0.24	99.49	1.00	0.968	1.033
0.21	0.08	0.51	98.98	0.21	98.77	1.00	0.970	1.031
0.35	0.03	0.47	98.34	0.20	98.14	1.00	0.967	1.033
0.34	0.02	0.45	98.93	0.19	98.74	1.00	0.967	1.032
0.34	0.00	0.54	99.12	0.23	98.90	1.00	0.971	1.030
0.25	0.08	0.50	99.30	0.21	99.09	1.00	0.967	1.034
0.07	0.00	0.89	99.42	0.37	99.04	1.00	0.971	1.028
0.23	0.05	0.84	100.31	0.35	99.95	1.00	0.966	1.033
0.19	0.02	0.70	100.29	0.29	100.00	1.00	0.958	1.042
0.37	0.00	0.61	99.47	0.26	99.21	1.00	0.969	1.032
0.35	0.04	0.62	99.43	0.26	99.17	1.00	0.967	1.033
0.57	0.12	0.43	97.63	0.18	97.44	1.00	0.964	1.036
0.48	0.17	0.75	99.05	0.32	98.73	1.00	0.966	1.033
0.38	0.15	0.77	99.55	0.32	99.23	1.00	0.968	1.032
0.11	0.06	0.48	99.27	0.20	99.07	1.00	0.968	1.032
0.22	0.08	0.45	99.49	0.19	99.30	1.00	0.970	1.029
0.29	0.14	0.49	99.31	0.21	99.10	1.00	0.963	1.036
0.29	0.00	0.50	99.86	0.21	99.65	1.00	0.968	1.032
0.31	0.08	0.52	99.73	0.22	99.51	1.00	0.968	1.033
0.31	0.01	0.48	99.41	0.20	99.21	1.00	0.964	1.037
0.25	0.11	0.59	99.78	0.25	99.53	1.00	0.961	1.039
0.43	0.03	0.55	99.29	0.23	99.06	1.00	0.965	1.035
0.29	0.00	0.76	100.80	0.32	100.48	1.00	0.983	1.018
0.24	0.00	0.70	101.45	0.29	101.15	1.00	0.984	1.029
0.25	0.04	0.60	100.21	0.25	99.96	1.00	0.972	1.028
0.25	0.09	0.68	100.54	0.29	100.25	1.00	0.968	1.033
0.26	0.01	0.48	100.71	0.20	100.51	1.00	0.967	1.032
0.37	0.00	0.66	100.71	0.28	100.43	1.00	0.972	1.028
0.32	0.00	0.54	100.62	0.23	100.39	1.00	0.967	1.033
0.07	0.10	0.33	99.08	0.14	98.94	1.00	0.992	1.006
0.37	0.03	0.71	98.80	0.30	98.50	1.00	0.991	1.008
0.29	0.16	0.68	98.77	0.28	98.48	1.00	0.978	1.022
0.30	0.00	1.27	97.93	0.54	97.39	1.02	0.985	0.993
0.13	0.00	0.51	99.39	0.21	99.18	1.00	0.984	1.014

0.23	0.00	0.55	99.66	0.23	99.42	1.00	0.983	1.017
0.39	0.01	0.57	99.29	0.24	99.05	1.00	0.981	1.018
0.38	0.09	0.54	99.23	0.23	99.00	1.00	0.980	1.021
0.34	0.00	0.49	100.03	0.21	99.83	1.00	0.984	1.035
0.30	0.08	0.47	99.39	0.20	99.19	1.00	0.979	1.020
0.32	0.01	0.47	99.36	0.20	99.16	1.00	0.982	1.019
0.33	0.00	0.58	99.76	0.24	99.51	1.00	0.979	1.021
0.31	0.17	0.56	99.00	0.23	98.77	1.00	0.979	1.021
0.29	0.00	0.68	99.06	0.29	98.77	1.00	0.976	1.024
0.06	0.02	0.47	99.87	0.20	99.68	1.00	0.966	1.033
0.15	0.05	0.49	100.18	0.21	99.97	1.00	0.975	1.025
0.33	0.15	1.05	98.46	0.44	98.02	1.00	0.976	1.023
0.18	0.01	0.71	97.56	0.30	97.26	1.00	0.984	1.012
0.68	0.11	0.63	98.07	0.27	97.80	1.00	0.982	1.018
0.23	0.01	0.37	99.57	0.16	99.42	1.00	0.971	1.030
0.09	0.00	0.46	99.19	0.19	99.00	1.00	0.971	1.029
0.18	0.00	0.47	99.42	0.20	99.23	1.00	0.973	1.027
0.33	0.00	0.47	99.34	0.20	99.14	1.00	0.981	1.019
0.25	0.11	0.51	99.08	0.22	98.86	1.00	0.978	1.023
0.00	0.00	0.28	99.53	0.12	99.42	1.00	0.974	1.027
0.64	0.08	0.64	98.87	0.27	98.60	1.00	0.972	1.027
0.31	0.04	0.72	98.57	0.30	98.27	1.00	0.975	1.026
0.18	0.08	0.50	99.24	0.21	99.02	1.00	0.979	1.022
0.21	0.05	0.51	98.49	0.21	98.28	1.00	0.974	1.026
0.24	0.04	0.51	99.07	0.21	98.86	1.00	0.978	1.023
0.31	0.06	0.45	97.79	0.19	97.60	1.00	0.975	1.025
0.30	0.01	0.90	99.36	0.38	98.98	1.00	0.973	1.026
0.08	0.06	0.71	100.05	0.30	99.75	1.00	0.970	1.029
0.23	0.01	0.72	99.67	0.30	99.37	1.00	0.977	1.023
0.49	0.10	1.09	95.64	0.46	95.18	1.01	0.950	1.045
0.23	0.00	0.85	98.25	0.36	97.89	1.00	0.967	1.032
0.24	0.08	0.74	99.20	0.31	98.89	1.00	0.973	1.028
0.27	0.02	0.81	100.16	0.34	99.82	1.00	0.972	1.028
0.35	0.03	0.46	98.80	0.19	98.61	1.00	0.969	1.031
0.21	0.00	0.62	99.50	0.26	99.24	1.00	0.972	1.028
0.10	0.04	0.70	99.40	0.29	99.11	1.00	0.971	1.029
0.16	0.00	0.62	99.75	0.26	99.49	1.00	0.968	1.032
0.20	0.02	0.59	99.53	0.25	99.28	1.00	0.983	1.018
0.30	0.06	0.58	98.18	0.25	97.94	1.00	0.973	1.027
0.13	0.08	0.67	99.14	0.28	98.85	1.00	0.968	1.032
0.17	0.03	0.44	100.31	0.19	100.13	0.98	0.979	1.037
0.00	0.00	0.91	100.77	0.38	100.39	1.00	0.970	1.030
0.00	0.00	0.47	100.83	0.20	100.63	1.00	0.968	1.032
0.04	0.10	0.77	98.82	0.33	98.49	1.00	0.967	1.033
0.26	0.03	0.85	99.51	0.36	99.15	1.00	0.976	1.024
0.27	0.09	0.80	99.56	0.33	99.22	1.00	0.975	1.024
0.52	0.12	0.73	99.43	0.31	99.13	1.00	0.972	1.028
0.57	0.07	0.46	97.62	0.19	97.42	1.00	0.970	1.030

0.24	0.00	0.54	98.62	0.23	98.39	1.00	0.972	1.029
0.24	0.00	0.71	99.52	0.30	99.22	1.00	0.975	1.025
0.36	0.01	0.63	99.37	0.26	99.10	1.00	0.975	1.025
0.35	0.06	0.65	99.28	0.27	99.00	1.00	0.971	1.029
0.29	0.05	0.62	99.37	0.26	99.10	1.00	0.968	1.033
0.42	0.03	0.63	97.95	0.26	97.68	1.00	0.968	1.033
0.70	0.29	0.57	98.25	0.24	98.01	1.00	0.976	1.025
0.52	0.00	0.49	98.17	0.21	97.96	1.00	0.972	1.028
0.30	0.02	0.52	96.81	0.22	96.59	1.01	0.972	1.021
0.39	0.05	0.75	97.89	0.32	97.57	1.00	0.983	1.017
0.16	0.00	0.55	97.86	0.23	97.62	1.00	0.976	1.024
0.12	0.04	0.58	97.79	0.24	97.54	1.00	0.991	1.006
0.25	0.00	0.52	98.25	0.22	98.03	1.00	0.966	1.033
0.22	0.01	0.79	98.59	0.33	98.26	1.00	0.975	1.025
0.09	0.03	0.77	98.17	0.32	97.85	1.00	0.971	1.029
0.33	0.04	0.55	97.78	0.23	97.55	1.00	0.974	1.026
0.80	0.18	0.45	97.32	0.19	97.13	1.00	0.971	1.029
0.37	0.04	0.72	98.02	0.30	97.72	1.00	0.974	1.026
0.78	0.21	0.42	97.40	0.18	97.22	1.00	0.974	1.025
0.62	0.18	0.54	97.75	0.23	97.52	1.00	0.971	1.029
0.09	0.00	0.47	96.72	0.20	96.53	1.00	0.963	1.037
0.13	0.01	0.75	98.15	0.31	97.83	1.00	0.971	1.030
0.29	0.00	0.61	96.14	0.26	95.88	1.00	0.967	1.034
0.12	0.11	0.38	99.81	0.16	99.65	0.97	0.991	1.037
0.05	0.00	0.34	98.79	0.14	98.64	1.00	0.971	1.028
0.19	0.00	0.48	99.53	0.20	99.32	0.97	0.994	1.034
0.64	0.14	0.76	98.89	0.32	98.57	1.00	0.971	1.029
0.12	0.10	0.56	97.00	0.24	96.76	1.00	0.967	1.032
0.00	0.00	0.93	98.55	0.39	98.15	1.00	0.968	1.033
0.56	0.02	0.56	96.93	0.24	96.69	1.00	0.972	1.028
0.22	0.02	0.48	98.38	0.20	98.18	1.00	0.973	1.027
0.28	0.10	0.72	98.81	0.30	98.51	1.00	0.979	1.021
0.07	0.04	0.58	99.44	0.24	99.19	1.00	0.973	1.027
0.10	0.03	0.43	99.88	0.18	99.70	0.98	0.989	1.035
0.33	0.06	0.61	96.49	0.26	96.24	1.00	0.972	1.028
0.33	0.13	0.80	97.42	0.33	97.08	1.00	0.970	1.030
0.28	0.14	0.75	98.08	0.32	97.76	1.00	0.974	1.026
0.44	0.12	0.54	97.33	0.23	97.10	1.00	0.986	1.014
0.69	0.16	0.44	97.76	0.18	97.57	1.00	0.974	1.027
0.50	0.11	0.49	98.04	0.20	97.83	1.00	0.974	1.026
0.27	0.02	0.51	98.61	0.22	98.39	1.00	0.971	1.029
0.34	0.14	0.64	97.35	0.27	97.08	1.00	0.975	1.025
0.08	0.02	0.48	99.38	0.20	99.18	1.00	0.973	1.029
0.21	0.06	0.91	98.68	0.38	98.30	1.00	0.972	1.027
0.22	0.07	0.90	99.23	0.38	98.85	1.00	0.984	1.017
0.35	0.00	0.88	98.84	0.37	98.47	1.00	0.973	1.027
0.07	0.03	0.64	98.90	0.27	98.63	1.00	0.977	1.024
0.02	0.08	1.097	97.93	0.4619	97.47	1.00	0.962	1.038

0.06	0.05	1.158	98.13	0.4876	97.64	1.00	0.964	1.036
0.16	0.08	1.089	98.11	0.4585	97.65	1.00	0.964	1.037
0.16	0.02	1.193	97.86	0.5023	97.36	1.00	0.960	1.041
0.20	0.06	1.169	98.67	0.4922	98.17	1.00	0.962	1.038
0.12	0.00	0.858	99.28	0.3613	98.92	1.00	0.961	1.039
0.00	0.09	0.430	99.87	0.1811	99.68	0.97	0.998	1.031
0.06	0.00	0.722	98.76	0.3040	98.45	1.00	0.962	1.037
0.02	0.00	0.823	100.02	0.3465	99.67	1.00	0.966	1.033
0.09	0.08	0.686	99.60	0.2889	99.31	1.00	0.963	1.037
0.00	0.00	0.81	100.23	0.34	99.88	1.00	0.977	1.055
0.06	0.00	0.80	100.13	0.34	99.79	1.00	0.975	1.055
0.10	0.03	0.99	100.47	0.42	100.05	1.00	0.976	1.034
0.10	0.02	0.85	99.60	0.36	99.24	1.00	0.980	1.062
0.03	0.04	1.21	100.28	0.51	99.77	1.00	0.966	1.042
0.15	0.08	0.90	100.15	0.38	99.77	1.00	0.966	1.051

0.33	0.14	0.40	98.13	0.17	97.96	1.00	0.999	1.005
0.45	0.14	0.35	97.31	0.15	97.16	1.00	0.988	1.018
0.50	0.17	0.32	97.35	0.13	97.21	1.00	0.990	1.017
0.57	0.16	0.34	97.30	0.14	97.15	1.00	0.994	1.018
0.72	0.19	0.19	96.61	0.08	96.53	1.00	0.987	1.028
0.66	0.24	0.21	97.17	0.09	97.08	1.00	0.992	1.024
0.65	0.14	0.24	97.64	0.10	97.54	1.00	0.996	1.016
0.75	0.20	0.27	97.99	0.11	97.87	1.00	0.993	1.018
0.68	0.25	0.23	97.82	0.10	97.72	1.00	1.002	1.012
0.64	0.24	0.25	97.67	0.11	97.56	1.00	0.997	1.014
0.72	0.26	0.21	97.49	0.09	97.41	1.00	1.002	1.014
0.66	0.20	0.22	97.52	0.09	97.43	1.00	0.997	1.020
0.73	0.21	0.22	97.21	0.09	97.12	1.00	0.992	1.024
0.71	0.22	0.25	97.41	0.10	97.30	1.00	0.997	1.021
0.65	0.19	0.23	97.51	0.10	97.42	1.00	0.997	1.014
0.67	0.25	0.31	97.59	0.13	97.46	1.00	0.994	1.015
0.45	0.23	0.39	97.56	0.16	97.40	1.00	0.986	1.021
0.48	0.09	0.34	97.60	0.14	97.45	1.00	0.989	1.019
0.37	0.12	0.38	98.01	0.16	97.85	1.00	0.992	1.014
0.26	0.13	0.36	95.44	0.15	95.29	1.00	1.061	0.945
0.47	0.13	0.27	97.68	0.11	97.57	1.00	1.005	1.009
0.34	0.04	0.34	98.51	0.14	98.37	1.00	0.998	1.010
0.34	0.12	0.44	98.91	0.19	98.72	1.00	0.996	1.010
0.47	0.18	0.35	98.31	0.15	98.16	1.00	1.001	1.009
0.51	0.15	0.32	98.76	0.13	98.62	1.00	1.002	1.008
0.62	0.19	0.22	98.32	0.09	98.22	1.00	1.003	1.016
0.68	0.00	0.21	98.57	0.09	98.48	1.00	1.006	1.012
0.65	0.19	0.21	99.37	0.09	99.28	1.00	0.999	1.021
0.31	0.03	0.43	98.91	0.18	98.73	1.00	1.004	1.003
0.35	0.07	0.39	98.98	0.16	98.81	1.00	0.990	1.014

0.52	0.26	0.35	98.88	0.15	98.74	1.00	0.990	1.016
0.46	0.14	0.36	98.60	0.15	98.45	1.00	0.989	1.020
0.44	0.10	0.35	98.27	0.15	98.12	1.00	0.991	1.017
0.49	0.14	0.34	99.17	0.14	99.03	1.00	0.993	1.014
0.64	0.19	0.23	98.09	0.09	97.99	1.00	0.992	1.019
0.62	0.15	0.22	99.10	0.09	99.00	1.00	0.994	1.016
0.58	3.61	0.26	98.22	0.11	98.11	1.00	0.955	1.054
0.78	0.29	0.25	98.88	0.11	98.77	1.00	0.988	1.024
0.68	0.16	0.24	98.29	0.10	98.20	1.00	1.003	1.011
0.47	0.13	0.36	98.56	0.15	98.41	1.00	0.992	1.014
0.99	1.84	0.33	99.91	0.14	99.77	1.00	0.979	1.028
0.36	0.47	0.33	98.79	0.14	98.65	1.00	0.993	1.013
0.39	0.06	0.31	98.70	0.13	98.57	1.00	0.993	1.014
0.34	0.09	0.40	98.76	0.17	98.59	1.00	0.994	1.015
0.23	0.05	0.40	98.77	0.17	98.60	1.00	0.998	1.008
0.80	0.11	0.23	98.03	0.09	97.94	1.00	0.997	1.016
0.63	0.17	0.31	97.75	0.13	97.62	1.00	0.994	1.014
0.11	0.00	0.58	99.47	0.25	99.22	1.01	0.997	1.001
0.02	0.00	0.54	99.79	0.23	99.56	1.00	0.991	1.010
0.07	0.03	0.73	98.18	0.31	97.88	1.00	0.984	1.016
1.11	0.19	0.31	97.90	0.13	97.77	1.00	0.999	1.006
0.47	0.12	0.53	98.32	0.22	98.10	1.00	0.995	1.008
0.56	0.10	0.55	98.44	0.23	98.21	1.00	0.986	1.019
0.16	0.03	0.65	98.33	0.27	98.05	1.00	0.989	1.015
0.59	0.12	0.36	98.00	0.15	97.85	1.00	1.004	0.999
0.70	0.14	0.40	98.25	0.17	98.09	1.00	1.003	0.998
0.52	0.12	0.39	97.80	0.16	97.63	1.00	0.994	1.010
0.21	0.05	0.60	98.11	0.25	97.86	1.00	0.986	1.017
0.62	0.11	0.53	98.06	0.22	97.84	1.00	0.994	1.012
0.92	0.20	0.43	97.82	0.18	97.63	1.00	0.993	1.013
0.53	0.11	0.39	97.97	0.17	97.80	1.00	0.990	1.016
0.44	0.04	0.42	98.11	0.18	97.94	1.00	0.993	1.013
0.73	0.13	0.39	97.59	0.16	97.43	1.00	0.997	1.008
0.38	0.13	0.44	97.82	0.18	97.63	1.00	0.992	1.011
0.52	0.13	0.39	97.90	0.17	97.74	1.00	0.994	1.010
0.31	0.08	0.35	98.22	0.15	98.07	1.00	0.998	1.003
0.37	0.06	0.39	98.57	0.16	98.41	1.00	0.988	1.017
0.23	0.03	0.40	98.54	0.17	98.38	1.00	0.983	1.019
0.51	0.06	0.43	98.16	0.18	97.98	1.00	0.996	1.007
0.30	0.00	0.39	98.30	0.16	98.13	1.00	0.984	1.020
0.31	0.05	0.41	98.49	0.17	98.32	1.00	0.987	1.018
0.18	0.01	0.59	98.70	0.25	98.45	1.00	0.993	1.010
0.71	0.15	0.40	97.78	0.17	97.62	1.00	0.996	1.007
0.12	0.06	0.49	98.16	0.21	97.95	1.00	0.981	1.020
0.26	0.07	0.48	98.87	0.20	98.66	1.00	0.989	1.013
0.36	0.08	0.40	98.42	0.17	98.25	1.00	1.008	0.996
0.88	0.16	0.38	98.37	0.16	98.21	1.00	0.987	1.018
0.22	0.04	0.61	98.46	0.26	98.20	1.00	0.989	1.012

0.86	0.19	0.40	97.86	0.17	97.69	1.00	0.993	1.011
0.51	0.03	0.43	98.64	0.18	98.46	1.00	0.986	1.019
0.62	0.18	0.50	98.16	0.21	97.95	1.00	0.990	1.016
0.26	0.10	0.55	97.28	0.23	97.05	1.00	1.004	1.001
0.57	0.11	0.51	97.06	0.22	96.84	1.01	0.985	1.011
0.29	0.08	0.60	97.64	0.25	97.39	1.00	0.992	1.009
0.64	0.13	0.43	97.56	0.18	97.38	1.00	0.991	1.012
0.61	0.11	0.43	97.64	0.18	97.47	1.00	0.994	1.012
0.60	0.11	0.41	97.42	0.17	97.24	1.00	0.995	1.010
0.54	0.11	0.50	97.93	0.21	97.72	1.00	0.988	1.015
0.59	0.14	0.46	98.08	0.19	97.89	1.00	0.994	1.009
0.23	0.08	0.50	98.25	0.21	98.04	1.00	0.989	1.016
0.63	0.12	0.52	97.51	0.22	97.29	1.00	0.994	1.007
0.64	0.13	0.55	97.07	0.23	96.84	1.00	0.996	1.010
0.76	0.16	0.52	97.88	0.22	97.66	1.00	0.993	1.011
0.60	0.13	0.57	98.14	0.24	97.90	1.00	0.990	1.014
0.20	0.00	0.64	97.86	0.27	97.59	1.01	0.982	1.011
0.18	0.00	0.72	97.58	0.30	97.28	1.00	0.992	1.016
0.13	0.00	0.64	97.65	0.27	97.38	1.00	0.991	1.010
0.27	0.01	0.69	97.62	0.29	97.33	1.00	0.990	1.006
0.64	0.11	0.56	96.75	0.24	96.52	1.00	0.989	1.013
0.47	0.06	0.53	96.80	0.22	96.58	1.00	0.990	1.012
0.78	0.17	0.44	97.66	0.19	97.48	1.00	0.996	1.008
0.29	0.10	0.58	97.16	0.24	96.91	1.00	0.997	1.008
0.90	0.18	0.52	96.97	0.22	96.75	1.00	0.993	1.009
0.55	0.04	0.48	97.53	0.20	97.33	1.00	0.992	1.010
0.59	0.10	0.46	97.45	0.19	97.26	1.00	0.994	1.008
0.50	0.14	0.54	97.15	0.23	96.92	1.00	0.994	1.009
1.06	0.20	0.49	96.77	0.21	96.56	1.00	0.996	1.008
0.36	0.07	0.52	97.47	0.22	97.25	1.00	0.991	1.013
0.64	0.17	0.46	97.15	0.19	96.96	1.00	0.997	1.006
0.54	0.13	0.59	97.48	0.25	97.23	1.00	0.997	1.007
0.96	0.14	0.39	97.19	0.17	97.02	1.01	0.992	1.007
0.45	0.09	0.52	96.84	0.22	96.62	1.00	0.987	1.014
0.40	0.12	0.54	95.65	0.23	95.42	1.00	0.990	1.014
0.52	0.08	0.52	98.21	0.22	97.98	1.00	0.992	1.011
0.65	0.07	0.31	97.46	0.13	97.33	1.00	0.994	1.011
0.40	0.06	0.53	98.04	0.22	97.81	1.00	0.992	1.009
0.33	0.05	0.59	97.35	0.25	97.10	1.00	0.989	1.014
0.54	0.09	0.57	98.34	0.24	98.10	1.00	0.997	1.006
0.83	0.19	0.48	97.38	0.20	97.18	1.00	0.997	1.008
0.66	0.16	0.47	97.41	0.20	97.21	1.00	0.992	1.011
0.21	0.01	0.64	96.72	0.27	96.45	1.02	0.995	0.995
0.29	0.04	0.69	97.87	0.29	97.58	1.00	0.991	1.012
0.66	0.12	0.48	97.93	0.20	97.73	1.00	0.997	1.006
0.69	0.23	0.58	97.23	0.24	96.98	1.01	0.992	1.005
0.46	0.05	0.54	97.63	0.23	97.40	1.00	0.994	1.009
0.25	0.00	0.67	97.75	0.28	97.47	1.00	0.993	1.010

0.31	0.04	0.48	97.69	0.20	97.49	1.00	1.004	1.000
0.38	0.07	0.45	98.20	0.19	98.02	1.00	1.004	0.999
0.86	0.17	0.47	97.36	0.20	97.16	1.01	1.005	0.995
0.44	0.04	0.63	97.34	0.26	97.07	1.00	1.014	0.987
0.19	0.05	0.69	97.63	0.29	97.34	1.01	0.993	1.000
0.68	0.10	0.48	96.77	0.20	96.57	1.01	1.002	0.997
0.64	0.13	0.51	96.17	0.21	95.96	1.01	1.015	0.985
0.62	0.15	0.54	97.55	0.23	97.33	1.00	0.996	1.008
0.62	0.07	0.50	97.39	0.21	97.18	1.00	1.000	1.006
0.45	0.15	0.56	97.75	0.24	97.51	1.00	1.002	1.003
0.77	0.18	0.54	97.17	0.23	96.94	1.00	0.991	1.015
0.66	0.11	0.56	97.50	0.24	97.27	1.00	1.000	1.003
0.92	0.15	0.38	97.24	0.16	97.08	1.00	1.006	1.000
0.46	0.08	0.41	97.46	0.17	97.29	1.01	1.002	0.998
0.44	0.14	0.42	97.90	0.18	97.72	1.00	1.001	1.001
0.42	0.16	0.44	97.77	0.19	97.59	1.00	0.996	1.007
0.64	0.14	0.47	97.84	0.20	97.64	1.00	1.006	0.999
0.38	0.05	0.64	97.43	0.27	97.16	1.01	1.006	0.990
0.37	0.08	0.48	97.25	0.20	97.04	1.00	1.016	0.984
0.41	0.03	0.51	97.42	0.21	97.21	1.00	1.003	1.000
0.44	0.05	0.47	97.14	0.20	96.94	1.00	1.001	0.999
0.67	0.15	0.43	97.31	0.18	97.14	1.02	1.000	0.988
0.58	0.17	0.66	97.85	0.28	97.58	1.00	0.997	1.005
0.75	0.16	0.53	97.35	0.22	97.13	1.00	1.006	1.000
0.79	0.15	0.61	96.83	0.26	96.57	1.01	1.008	0.989
0.72	0.16	0.59	98.04	0.25	97.79	1.00	0.996	1.008
0.53	0.13	0.59	97.45	0.25	97.20	1.00	0.997	1.005
0.45	0.09	0.62	97.26	0.26	97.00	1.00	1.002	0.999
0.24	0.04	0.59	97.92	0.25	97.67	1.01	0.998	0.995
0.68	0.11	0.57	97.56	0.24	97.32	1.00	1.011	0.993
0.85	0.12	0.50	98.03	0.21	97.82	1.00	0.997	1.007
1.12	0.28	0.46	97.13	0.19	96.94	1.00	1.003	1.001
1.42	0.29	0.39	98.00	0.17	97.83	1.00	0.994	1.010
1.22	0.25	0.39	97.76	0.16	97.60	1.00	0.995	1.008
1.23	0.24	0.39	97.34	0.17	97.17	1.00	0.996	1.009
1.13	0.19	0.40	97.61	0.17	97.44	1.00	1.003	1.002
0.99	0.25	0.41	97.14	0.17	96.97	1.00	0.992	1.008
0.86	0.10	0.49	97.96	0.21	97.75	1.00	0.993	1.011
0.82	0.18	0.48	97.73	0.20	97.53	1.00	0.989	1.013
0.72	0.16	0.51	97.82	0.21	97.60	1.00	0.998	1.002
0.63	0.09	0.50	97.84	0.21	97.63	1.00	0.996	1.006
0.15	0.06	0.59	98.28	0.25	98.03	1.00	0.992	1.012
0.11	0.00	0.67	97.71	0.28	97.43	1.00	0.993	1.002
0.08	0.01	0.65	98.20	0.27	97.92	1.01	1.002	0.994
0.02	0.02	0.81	98.64	0.34	98.30	1.00	0.994	1.005
0.00	0.00	0.87	98.51	0.37	98.14	1.00	0.986	1.010
0.22	0.01	0.58	97.71	0.24	97.47	1.01	0.998	1.000
0.25	0.03	0.63	98.14	0.26	97.88	1.00	1.002	1.003

0.29	0.02	0.59	98.74	0.25	98.49	1.00	0.996	1.009
0.27	0.04	0.59	98.25	0.25	98.00	1.00	0.996	1.011
0.26	0.08	0.58	98.65	0.25	98.40	1.00	0.993	1.014
0.37	0.03	0.49	98.21	0.21	98.01	1.00	0.990	1.016
0.43	0.11	0.56	98.31	0.24	98.07	1.00	0.998	1.007
0.38	0.06	0.59	97.85	0.25	97.60	1.00	1.002	1.001
0.20	0.10	0.52	97.65	0.22	97.43	1.01	1.014	0.980
0.16	0.02	0.61	98.48	0.26	98.23	1.00	0.990	1.010
0.23	0.04	0.47	98.64	0.20	98.44	1.00	1.000	1.002
0.26	0.08	0.54	98.91	0.23	98.68	1.00	0.999	1.004
0.32	0.05	0.45	98.51	0.19	98.32	1.00	0.992	1.013
0.19	0.00	0.47	98.94	0.20	98.74	1.00	0.995	1.008
0.13	0.01	0.50	98.17	0.21	97.96	1.00	0.991	1.009
0.09	0.00	0.46	98.53	0.19	98.34	1.00	1.007	0.995
0.14	0.03	0.40	97.75	0.17	97.58	1.01	1.009	0.988
0.43	0.28	0.43	98.36	0.18	98.18	1.00	1.000	1.008
0.39	0.01	0.45	98.76	0.19	98.57	1.00	0.987	1.022
0.27	0.02	0.61	98.61	0.26	98.36	1.00	0.990	1.015
0.23	0.06	0.64	96.06	0.27	95.79	1.02	0.971	1.012
0.25	0.04	0.55	96.32	0.23	96.09	1.01	0.977	1.014
0.56	0.18	0.51	96.58	0.21	96.37	1.02	0.980	1.009
0.65	0.15	0.53	96.47	0.22	96.24	1.01	0.981	1.011
0.38	0.09	0.63	97.07	0.26	96.81	1.01	0.988	1.009
0.71	0.16	0.54	96.69	0.23	96.46	1.00	0.986	1.016
1.03	0.25	0.48	95.91	0.20	95.71	1.01	0.978	1.018
0.51	0.06	0.50	96.41	0.21	96.20	1.01	0.978	1.014
0.70	0.12	0.57	96.02	0.24	95.77	1.02	0.978	1.011
0.75	0.12	0.47	97.05	0.20	96.85	1.00	0.992	1.014
0.74	0.11	0.45	96.94	0.19	96.75	1.00	0.988	1.017
0.70	0.11	0.50	96.78	0.21	96.57	1.00	0.997	1.007
0.42	0.06	0.45	96.98	0.19	96.80	1.01	0.983	1.007
0.71	0.12	0.35	97.05	0.15	96.90	1.00	0.991	1.013
0.62	0.06	0.43	96.39	0.18	96.21	1.01	0.985	1.011
0.62	0.12	0.45	96.28	0.19	96.09	1.01	0.980	1.017
0.59	0.12	0.42	96.83	0.18	96.65	1.00	0.984	1.022
0.58	0.12	0.47	96.70	0.20	96.50	1.01	0.982	1.018
0.64	0.16	0.46	97.00	0.19	96.81	1.00	0.991	1.012
1.03	0.18	0.52	96.66	0.22	96.44	1.00	0.997	1.004
0.59	0.11	0.48	97.92	0.20	97.72	1.00	0.987	1.011
0.78	0.18	0.51	97.47	0.21	97.25	1.00	1.001	1.002
0.73	0.13	0.55	96.78	0.23	96.55	1.01	0.997	1.003
0.56	0.11	0.54	97.23	0.23	97.00	1.01	0.994	0.997
0.31	0.05	0.59	97.84	0.25	97.59	1.01	0.991	1.007
0.21	0.06	0.66	97.45	0.28	97.18	1.01	0.994	1.013
0.32	0.10	0.60	96.29	0.25	96.04	1.02	0.971	1.020
0.31	0.08	0.54	96.76	0.23	96.54	1.01	0.978	1.016
0.63	0.16	0.45	98.00	0.19	97.82	1.00	0.996	1.011
0.41	0.09	0.56	98.17	0.23	97.93	1.00	0.992	1.016

0.55	0.11	0.51	96.90	0.22	96.69	1.01	0.987	1.005
0.30	0.04	0.91	98.71	0.38	98.33	1.00	0.998	1.007
0.47	0.12	0.50	98.49	0.21	98.27	1.00	0.999	1.007
0.37	0.10	0.51	97.56	0.22	97.35	1.01	0.991	1.006
0.85	0.16	0.37	97.33	0.16	97.17	1.00	0.995	1.006
0.81	0.20	0.37	97.63	0.16	97.47	1.00	1.000	1.002
0.63	0.09	0.53	98.62	0.22	98.39	1.00	0.993	1.009
0.70	0.12	0.36	97.81	0.15	97.65	1.00	0.993	1.010
0.89	0.14	0.36	96.99	0.15	96.84	1.01	0.986	1.008
0.77	0.11	0.36	98.02	0.15	97.87	1.00	0.995	1.013
0.79	0.16	0.32	97.71	0.13	97.58	1.00	0.999	1.009
0.80	0.18	0.35	97.65	0.15	97.50	1.01	1.003	0.998
0.70	0.20	0.39	97.96	0.16	97.80	1.00	1.000	1.010
0.41	0.10	0.47	98.17	0.20	97.97	1.00	0.996	1.010
0.20	0.06	0.60	97.60	0.25	97.34	1.00	1.001	0.999
0.27	0.01	0.53	97.31	0.22	97.09	1.01	0.994	0.999
0.11	0.02	0.64	97.88	0.27	97.61	1.01	0.996	1.001
0.39	0.06	0.54	97.67	0.23	97.44	1.01	0.997	0.998
0.19	0.06	0.61	97.75	0.26	97.49	1.00	0.993	1.016
0.42	0.03	0.51	98.13	0.21	97.92	1.00	0.998	1.007
0.21	0.03	0.58	97.07	0.24	96.83	1.00	1.002	1.004
0.50	0.08	0.31	98.43	0.13	98.30	1.00	1.004	1.000
0.46	0.05	0.32	97.49	0.14	97.36	1.00	0.994	1.010
0.62	0.04	0.33	98.32	0.14	98.18	1.00	1.001	1.003
0.90	0.13	0.25	97.20	0.11	97.09	1.00	0.994	1.013
0.43	0.04	0.57	97.47	0.24	97.23	1.00	0.988	1.017
0.59	0.05	0.59	97.70	0.25	97.45	1.00	0.991	1.014
0.45	0.08	0.52	97.98	0.22	97.76	1.00	0.992	1.012
0.73	0.15	0.48	97.83	0.20	97.63	1.00	0.992	1.013
0.33	0.07	0.48	97.99	0.20	97.79	1.00	0.990	1.016
0.67	0.08	0.46	97.43	0.19	97.23	1.00	0.994	1.010
0.90	0.16	0.37	97.73	0.16	97.58	1.00	0.997	1.007
0.65	0.07	0.35	97.79	0.15	97.64	1.00	0.996	1.009
1.03	0.21	0.30	96.85	0.13	96.73	1.00	1.009	1.001
0.49	0.07	0.46	97.80	0.19	97.61	1.00	0.996	1.007
0.46	0.10	0.42	98.02	0.18	97.84	1.00	0.993	1.010
0.57	0.08	0.46	98.01	0.20	97.81	1.00	0.995	1.009
0.92	0.16	0.26	97.47	0.11	97.36	1.00	1.001	1.006
0.78	0.15	0.27	97.62	0.11	97.51	1.00	0.993	1.012
0.40	0.08	0.33	96.86	0.14	96.72	1.00	1.009	0.992
0.83	0.04	0.32	97.09	0.13	96.96	1.00	1.001	1.003
0.54	0.11	0.27	97.75	0.11	97.64	1.00	0.986	1.018
0.74	0.11	0.43	96.87	0.18	96.69	1.00	0.982	1.023
0.79	0.10	0.44	97.34	0.19	97.15	1.00	0.994	1.010
0.63	0.09	0.49	97.90	0.20	97.69	1.00	0.995	1.009
0.77	0.14	0.43	97.67	0.18	97.49	1.00	0.992	1.012
0.62	0.11	0.42	97.42	0.18	97.25	1.00	0.994	1.011

0.31	0.08	0.55	97.72	0.23	97.49	1.00	0.992	1.012
0.72	0.10	0.43	97.30	0.18	97.12	1.00	0.990	1.015
0.43	0.05	0.51	97.40	0.21	97.19	1.00	0.992	1.014
0.18	0.10	0.63	97.74	0.26	97.47	1.00	0.992	1.016
0.20	0.05	0.57	96.88	0.24	96.65	1.00	1.000	1.018
0.29	0.00	0.51	97.41	0.22	97.20	1.00	0.991	1.029
0.44	0.13	0.39	98.03	0.16	97.87	1.00	1.003	1.002
0.93	0.22	0.37	97.27	0.16	97.12	1.00	1.005	1.008
0.63	0.12	0.34	97.33	0.14	97.19	1.00	1.006	1.001
0.90	0.18	0.37	97.06	0.16	96.90	1.00	1.003	1.007
0.46	0.07	0.42	98.22	0.18	98.04	1.00	0.994	1.012
0.35	0.09	0.63	97.82	0.27	97.55	1.00	0.991	1.016
0.43	0.06	0.55	97.30	0.23	97.07	1.00	1.003	0.998
0.50	0.15	0.51	97.76	0.21	97.55	1.00	0.996	1.010
0.45	0.11	0.52	97.61	0.22	97.39	1.00	0.999	1.005
0.57	0.10	0.58	97.32	0.24	97.08	1.00	1.009	0.995
0.72	0.06	0.47	97.13	0.20	96.93	1.00	1.014	0.994
0.73	0.16	0.55	97.15	0.23	96.92	1.00	1.002	1.002
0.75	0.15	0.51	97.60	0.21	97.39	1.00	0.996	1.010
0.92	0.17	0.32	96.95	0.13	96.81	1.00	1.006	1.007
0.68	0.12	0.58	97.34	0.24	97.09	1.00	0.990	1.014
0.45	0.07	0.44	97.92	0.19	97.73	1.00	0.990	1.014
0.54	0.09	0.55	97.51	0.23	97.28	1.00	1.005	1.001
0.51	0.13	0.55	98.04	0.23	97.81	1.00	0.999	1.007
0.68	0.15	0.41	98.10	0.17	97.92	1.00	1.002	1.004
0.36	0.07	0.35	98.01	0.15	97.86	1.00	1.008	0.998
0.61	0.12	0.39	97.55	0.16	97.39	1.00	1.005	1.000
0.64	0.19	0.41	97.61	0.17	97.44	1.00	1.002	1.004
0.64	0.17	0.38	97.77	0.16	97.60	1.00	0.992	1.017
0.49	0.07	0.54	97.93	0.23	97.70	1.00	0.989	1.014
0.37	0.07	0.51	98.19	0.22	97.97	1.00	0.991	1.014
0.36	0.06	0.51	98.06	0.21	97.85	1.00	0.992	1.014
0.31	0.04	0.55	97.94	0.23	97.71	1.00	0.991	1.016
0.22	0.07	0.50	97.99	0.21	97.78	1.00	0.985	1.030
0.16	0.03	0.54	97.77	0.23	97.55	1.00	0.997	1.033
0.42	0.13	0.58	97.06	0.25	96.81	1.00	1.002	1.000
0.96	0.17	0.55	97.51	0.23	97.27	1.00	0.994	1.007
0.49	0.10	0.50	97.86	0.21	97.65	1.00	1.001	1.001
0.59	0.10	0.45	97.41	0.19	97.22	1.01	1.008	0.995
0.07	0.00	0.67	98.47	0.28	98.19	1.01	0.989	1.004
0.06	0.03	0.64	98.18	0.27	97.91	1.00	0.999	0.999
0.03	0.00	0.45	97.49	0.19	97.30	1.01	1.004	0.984
1.13	0.26	0.31	97.63	0.13	97.50	1.00	1.003	1.003
1.20	0.26	0.33	97.23	0.14	97.09	1.00	1.001	1.008
0.92	0.19	0.29	97.12	0.12	97.00	1.00	1.010	0.997
0.82	0.24	0.34	97.72	0.14	97.57	1.00	1.000	1.004
0.91	0.18	0.52	97.09	0.22	96.88	1.01	0.996	1.003
0.92	0.22	0.52	96.39	0.22	96.17	1.00	1.007	0.996
0.64	0.18	0.45	97.30	0.19	97.11	1.01	1.004	0.994
0.71	0.12	0.50	97.36	0.21	97.15	1.00	1.003	1.003
0.44	0.09	0.48	97.26	0.20	97.06	1.00	1.014	0.988

0.80	0.20	0.47	97.84	0.20	97.64	1.00	1.000	1.004
0.72	0.11	0.46	97.81	0.19	97.61	1.00	1.007	0.996
0.84	0.18	0.47	97.88	0.20	97.68	1.00	1.018	0.986
1.01	0.25	0.40	97.17	0.17	97.00	1.01	1.010	0.986
0.80	0.14	0.28	97.66	0.12	97.54	1.00	0.995	1.010
0.76	0.12	0.38	97.47	0.16	97.31	1.00	0.999	1.003
1.08	0.26	0.28	97.40	0.12	97.28	1.00	1.006	1.000
0.92	0.24	0.47	97.54	0.20	97.34	1.00	1.002	1.002
0.63	0.11	0.36	98.06	0.15	97.90	1.00	1.001	1.003
0.69	0.12	0.33	98.13	0.14	97.99	1.00	0.999	1.005
0.83	0.10	0.33	97.85	0.14	97.71	1.00	1.005	0.995
0.62	0.15	0.36	98.01	0.15	97.86	1.01	1.000	0.999
0.42	0.13	0.48	98.65	0.20	98.45	1.00	1.004	1.000
0.69	0.10	0.46	97.98	0.19	97.78	1.00	1.007	0.996
0.64	0.13	0.40	97.74	0.17	97.57	1.00	1.035	0.966
0.62	0.07	0.43	97.47	0.18	97.28	1.01	1.007	0.991
0.74	0.14	0.51	98.14	0.21	97.92	1.00	0.997	1.006
0.63	0.16	0.51	97.61	0.22	97.40	1.00	1.005	0.997
0.63	0.14	0.49	97.44	0.21	97.23	1.01	1.009	0.987
0.43	0.05	0.58	97.70	0.24	97.46	1.01	1.005	0.992
0.06	0.01	0.65	97.52	0.28	97.24	1.02	1.006	0.981
0.08	0.00	0.63	97.85	0.26	97.59	1.01	1.001	0.988
0.00	0.01	0.84	98.58	0.35	98.22	1.00	1.000	1.000
0.06	0.01	0.72	98.41	0.30	98.10	1.00	0.990	1.009
0.10	0.07	0.67	98.58	0.28	98.29	1.00	0.996	1.004
0.09	0.05	0.55	98.00	0.23	97.77	1.01	1.002	0.993
0.18	0.03	0.61	98.63	0.26	98.37	1.00	1.003	0.998
0.41	0.03	0.43	97.62	0.18	97.44	1.00	1.001	1.001
0.32	0.01	0.40	97.16	0.17	96.99	1.01	1.007	0.989
0.46	0.14	0.44	97.00	0.18	96.81	1.01	1.008	0.993
0.45	0.00	0.45	97.87	0.19	97.68	1.00	1.004	1.030
0.23	0.03	0.55	97.89	0.23	97.66	1.01	1.009	0.995
0.40	0.03	0.41	97.77	0.17	97.60	1.01	1.006	0.993
0.18	0.04	0.47	96.23	0.20	96.03	1.01	1.010	0.984
0.18	0.01	0.44	98.36	0.18	98.18	1.01	1.001	0.995
0.04	0.00	0.53	95.92	0.22	95.69	1.07	1.044	0.885
0.52	0.14	0.50	98.08	0.21	97.87	1.00	1.003	0.999
0.59	0.09	0.44	97.98	0.18	97.80	1.00	0.995	1.010
0.27	0.05	0.42	97.77	0.18	97.59	1.00	1.009	0.993
0.40	0.13	0.34	97.36	0.14	97.22	1.01	1.001	0.999
0.06	0.00	0.46	98.45	0.19	98.25	1.00	0.994	1.006
0.32	0.07	0.34	97.59	0.14	97.45	1.00	0.998	1.002
0.37	0.08	0.50	97.78	0.21	97.56	1.00	1.011	0.993
0.22	0.02	0.45	98.66	0.19	98.47	1.00	0.995	1.008
0.36	0.10	0.47	98.29	0.20	98.09	1.00	0.999	1.002
0.29	0.06	0.37	98.77	0.15	98.62	1.01	1.002	0.996
0.49	0.07	0.38	97.95	0.16	97.80	1.01	0.996	1.004
0.54	0.13	0.40	97.09	0.17	96.92	1.00	0.988	1.017

0.55	0.10	0.35	97.90	0.15	97.75	1.00	1.008	0.995
0.47	0.02	0.59	97.89	0.25	97.64	1.00	1.003	0.995
0.38	0.08	0.45	98.24	0.19	98.04	1.00	0.999	1.006
0.07	0.09	0.55	98.73	0.23	98.50	1.00	1.011	0.992
0.37	0.11	0.38	97.59	0.16	97.43	1.01	1.008	0.991
0.61	0.12	0.32	97.63	0.14	97.49	1.01	0.997	1.001
0.54	0.00	0.43	97.34	0.18	97.16	1.01	0.995	1.001
0.62	0.16	0.46	97.44	0.19	97.24	1.01	0.987	1.006
0.49	0.14	0.55	97.71	0.23	97.48	1.01	1.009	0.985
0.38	0.09	0.53	97.62	0.22	97.39	1.01	1.012	0.985
0.81	0.14	0.45	97.48	0.19	97.29	1.01	0.993	1.011
0.36	0.08	0.47	97.89	0.20	97.69	1.01	0.995	1.007
0.26	0.00	0.56	97.79	0.24	97.56	1.01	1.006	0.990
0.36	0.08	0.57	97.69	0.24	97.45	1.01	0.999	0.994
0.47	0.10	0.49	97.44	0.21	97.23	1.01	1.000	0.994
0.21	0.02	0.56	97.35	0.24	97.11	1.01	1.000	0.994
0.35	0.06	0.48	97.36	0.20	97.16	1.00	0.997	1.002
0.37	0.10	0.54	97.06	0.23	96.84	1.01	0.990	1.009
0.38	0.12	0.49	97.57	0.21	97.37	1.00	0.993	1.012
0.25	0.06	0.57	97.09	0.24	96.86	1.01	1.001	0.998
0.24	0.02	0.54	97.69	0.23	97.46	1.00	0.988	1.017
0.65	0.15	0.50	97.29	0.21	97.08	1.00	0.991	1.011
1.13	0.23	0.31	96.34	0.13	96.21	1.01	0.996	1.001
0.32	0.07	0.50	97.43	0.21	97.22	1.00	1.008	0.993
0.93	0.16	0.40	97.05	0.17	96.88	1.00	1.001	1.003
0.57	0.13	0.47	97.46	0.20	97.26	1.00	0.993	1.008
0.59	0.05	0.39	96.46	0.16	96.30	1.00	1.008	0.995
0.62	0.08	0.41	96.72	0.17	96.55	1.01	1.019	0.973
0.61	0.17	0.46	97.67	0.19	97.47	1.00	0.994	1.010
0.67	0.15	0.32	97.04	0.13	96.91	1.00	0.998	1.006
0.52	0.11	0.45	96.62	0.19	96.43	1.01	1.004	0.992
0.47	0.04	0.43	96.01	0.18	95.83	1.01	1.010	0.985
0.45	0.09	0.50	96.93	0.21	96.72	1.01	0.992	1.005
0.43	0.07	0.42	97.32	0.17	97.15	1.00	0.999	1.002
0.28	0.03	0.51	96.38	0.21	96.16	1.01	1.006	0.983
0.18	0.01	0.42	97.13	0.18	96.95	1.01	1.007	0.983
0.13	0.02	0.50	98.19	0.21	97.98	1.00	0.990	1.013
0.05	0.04	0.52	97.51	0.22	97.29	1.01	0.992	1.004
0.29	0.08	0.50	97.87	0.21	97.66	1.01	1.001	0.999
0.43	0.03	0.42	97.33	0.18	97.15	1.00	0.996	1.009
0.52	0.06	0.45	97.97	0.19	97.78	1.00	0.997	1.008
0.08	0.02	0.57	98.84	0.24	98.60	1.02	0.991	0.998
0.18	0.06	0.44	98.61	0.18	98.43	1.00	0.991	1.021
0.26	0.06	0.53	98.90	0.22	98.67	1.01	0.991	1.012
0.16	0.00	0.48	98.65	0.20	98.45	1.00	0.999	1.008
0.22	0.01	0.44	98.14	0.18	97.96	1.00	0.997	1.014

0.21	0.04	0.58	98.94	0.24	98.70	1.00	0.997	1.010
0.29	0.02	0.47	98.18	0.20	97.98	1.01	0.990	1.017
0.37	0.03	0.51	98.30	0.21	98.08	1.01	0.993	1.013
0.49	0.13	0.30	98.35	0.13	98.22	1.01	0.998	1.004
0.66	0.15	0.31	98.32	0.13	98.19	1.01	0.994	1.007
0.64	0.09	0.32	98.43	0.13	98.30	1.01	0.998	1.002
0.66	0.14	0.32	98.08	0.13	97.95	1.01	0.998	0.999
0.48	0.11	0.29	98.39	0.12	98.27	1.00	1.001	1.001
0.56	0.08	0.33	98.12	0.14	97.98	1.01	0.999	1.002
0.54	0.09	0.31	98.52	0.13	98.39	1.00	1.003	1.005
0.50	0.10	0.29	98.71	0.12	98.59	1.01	0.998	0.999
0.44	0.09	0.31	98.95	0.13	98.82	1.01	0.993	1.004
0.36	0.12	0.26	98.58	0.11	98.47	1.00	1.002	1.004
0.28	0.06	0.31	98.29	0.13	98.15	1.01	1.000	0.998
0.53	0.06	0.32	98.54	0.14	98.40	1.01	0.996	1.004
0.83	0.19	0.23	98.32	0.10	98.22	1.00	0.996	1.013
0.80	0.14	0.23	98.40	0.10	98.30	1.00	0.998	1.010
0.57	0.16	0.27	98.08	0.12	97.97	1.01	0.988	1.018
0.68	0.16	0.31	98.71	0.13	98.58	1.00	0.993	1.015
0.45	0.12	0.39	99.00	0.16	98.83	1.01	0.995	1.008
0.39	0.09	0.42	98.50	0.18	98.32	1.01	0.987	1.012
0.35	0.11	0.43	98.44	0.18	98.26	1.01	0.995	1.010
0.30	0.07	0.51	98.56	0.21	98.34	1.01	0.996	1.014
0.54	0.09	0.27	97.56	0.11	97.45	1.00	1.001	1.033
0.25	0.10	0.46	98.04	0.19	97.84	1.00	1.019	0.991
0.50	0.12	0.28	96.81	0.12	96.69	1.00	1.007	1.029
0.44	0.11	0.37	97.58	0.15	97.43	1.00	0.996	1.024
0.23	0.06	0.47	97.27	0.20	97.07	1.00	0.995	1.025
0.48	0.10	0.54	97.70	0.23	97.47	1.00	0.992	1.017
0.39	0.07	0.39	97.45	0.16	97.28	1.00	0.999	1.018
0.21	0.00	0.39	97.43	0.16	97.27	1.00	0.998	1.014
0.28	0.06	0.45	97.50	0.19	97.31	1.00	1.000	1.009
0.28	0.00	0.43	97.64	0.18	97.46	1.00	1.006	1.004
0.25	0.11	0.33	97.55	0.14	97.41	1.00	1.000	1.042
0.25	0.06	0.51	98.14	0.22	97.93	1.01	0.992	1.008
0.06	0.00	0.64	98.16	0.27	97.89	1.00	0.990	1.008
0.07	0.00	0.58	97.92	0.25	97.68	1.00	0.993	1.011
0.48	0.12	0.35	97.76	0.15	97.61	1.01	1.000	1.005
0.25	0.08	0.47	98.21	0.20	98.02	1.01	0.993	1.008
0.50	0.04	0.46	98.54	0.19	98.35	1.00	1.027	1.004
0.24	0.06	0.51	97.47	0.22	97.26	1.00	0.995	1.023
0.46	0.06	0.47	97.46	0.20	97.26	1.00	0.993	1.013
0.63	0.15	0.41	97.49	0.17	97.31	1.00	0.995	1.014
0.55	0.08	0.39	97.49	0.16	97.32	1.00	0.992	1.013
0.59	0.11	0.41	97.08	0.17	96.91	1.01	0.986	1.013
0.55	0.19	0.35	97.99	0.15	97.85	1.00	0.990	1.017
0.52	0.18	0.37	97.63	0.15	97.47	1.00	0.996	1.013
0.59	0.16	0.40	97.40	0.17	97.23	1.00	0.993	1.016

0.62	0.15	0.41	97.27	0.17	97.09	1.00	0.991	1.019
0.69	0.20	0.37	97.44	0.16	97.29	1.00	0.994	1.016
0.58	0.15	0.40	97.42	0.17	97.25	1.00	1.001	1.009
0.70	0.16	0.42	97.52	0.18	97.35	1.00	0.998	1.010
0.75	0.11	0.33	97.05	0.14	96.91	1.00	0.993	1.015
0.76	0.18	0.30	97.72	0.13	97.59	1.00	1.000	1.011
0.63	0.10	0.42	96.99	0.18	96.81	1.00	0.992	1.014
0.49	0.12	0.38	97.41	0.16	97.25	1.00	1.000	1.007
0.57	0.13	0.43	97.45	0.18	97.27	1.00	0.997	1.011
0.57	0.11	0.37	97.77	0.16	97.61	1.00	0.996	1.010
0.64	0.08	0.40	97.05	0.17	96.88	1.00	0.989	1.014
0.40	0.15	0.43	97.65	0.18	97.47	1.00	0.993	1.015
0.39	0.08	0.47	97.60	0.20	97.40	1.00	0.993	1.014
0.28	0.14	0.54	97.45	0.23	97.22	1.01	0.989	1.015
0.43	0.14	0.46	97.92	0.19	97.73	1.01	1.003	1.002
0.39	0.10	0.50	97.74	0.21	97.53	1.01	0.986	1.013
0.41	0.13	0.52	98.00	0.22	97.78	1.01	0.994	1.004
0.45	0.11	0.47	98.11	0.20	97.91	1.01	1.003	0.999
0.44	0.10	0.38	98.16	0.16	98.00	1.00	0.997	1.008
0.54	0.08	0.34	98.16	0.14	98.02	1.01	0.996	1.007
0.50	0.14	0.34	97.90	0.14	97.75	1.00	1.003	1.005
0.49	0.10	0.40	98.21	0.17	98.04	1.01	0.991	1.006
0.56	0.09	0.28	98.40	0.12	98.28	1.01	0.998	1.010
0.63	0.10	0.25	97.84	0.10	97.74	1.00	1.005	1.008
0.47	0.08	0.41	97.67	0.17	97.49	1.01	0.999	1.006
0.50	0.14	0.38	98.04	0.16	97.88	1.01	0.996	1.006
0.52	0.09	0.37	98.31	0.15	98.16	1.00	0.996	1.009
0.59	0.15	0.44	97.60	0.18	97.42	1.01	1.002	0.998
0.56	0.13	0.41	98.24	0.17	98.07	1.01	0.993	1.008
0.45	0.08	0.44	98.03	0.19	97.84	1.00	1.002	1.007
0.44	0.07	0.48	98.27	0.20	98.07	1.01	0.989	1.007
0.45	0.12	0.43	98.05	0.18	97.87	1.01	0.994	1.009
0.52	0.11	0.45	98.44	0.19	98.25	1.01	0.992	1.010
0.48	0.15	0.50	98.19	0.21	97.98	1.01	0.991	1.012
0.46	0.11	0.49	97.95	0.21	97.75	1.01	0.987	1.007
0.54	0.13	0.48	97.60	0.20	97.40	1.01	0.987	1.010
0.53	0.17	0.49	97.31	0.21	97.11	1.02	0.989	1.002
0.46	0.05	0.33	97.18	0.14	97.05	1.02	1.001	0.998
0.52	0.11	0.41	97.84	0.17	97.66	1.01	0.994	1.009
0.60	0.16	0.38	97.15	0.16	96.99	1.00	0.995	1.011
1.05	0.25	0.19	96.71	0.08	96.63	1.00	1.004	1.016
0.68	0.15	0.36	97.51	0.15	97.36	1.00	1.004	1.003
0.92	0.23	0.28	96.60	0.12	96.49	1.00	1.010	1.008
0.46	0.11	0.42	97.18	0.18	97.01	1.00	1.001	1.007
0.45	0.12	0.51	98.09	0.21	97.88	1.01	0.999	1.005
0.69	0.12	0.35	98.38	0.15	98.24	1.00	0.997	1.013
0.60	0.14	0.35	97.92	0.15	97.77	1.00	0.997	1.011
0.71	0.14	0.25	97.77	0.11	97.67	1.00	1.004	1.010

0.68	0.12	0.28	97.89	0.12	97.77	1.00	0.997	1.013
0.55	0.20	0.40	97.40	0.17	97.23	1.00	0.998	1.013
0.65	0.19	0.37	97.56	0.15	97.41	1.00	1.000	1.007
0.64	0.14	0.32	97.68	0.13	97.55	1.00	1.001	1.016
0.52	0.13	0.44	97.44	0.19	97.26	1.00	0.997	1.007
0.09	0.03	0.41	97.50	0.17	97.33	1.01	0.990	1.007
0.14	0.07	0.72	95.19	0.30	94.89	1.00	0.991	1.015
0.77	0.18	0.25	97.59	0.10	97.49	1.00	0.995	1.021
0.43	0.09	0.48	97.63	0.20	97.42	1.00	0.994	1.020
0.44	0.13	0.46	98.38	0.20	98.19	1.00	0.998	1.021
0.28	0.10	0.56	97.64	0.23	97.41	1.00	0.995	1.021
0.29	0.11	0.60	97.29	0.25	97.04	1.00	0.995	1.018
0.38	0.06	0.53	97.32	0.22	97.10	1.00	0.998	1.013
0.52	0.13	0.51	97.71	0.22	97.49	1.00	1.004	1.004
0.66	0.14	0.36	97.77	0.15	97.62	1.00	0.998	1.006
0.49	0.12	0.43	97.66	0.18	97.48	1.00	0.992	1.018
0.68	0.16	0.38	97.52	0.16	97.36	1.00	0.995	1.014
0.43	0.16	0.43	97.65	0.18	97.47	1.00	0.995	1.014
0.56	0.20	0.28	97.13	0.12	97.01	1.00	0.999	1.020
0.58	0.09	0.45	97.74	0.19	97.55	1.00	0.999	1.008
0.59	0.11	0.45	97.52	0.19	97.33	1.01	0.994	1.013
0.54	0.09	0.41	98.16	0.17	97.99	1.01	0.996	1.009
0.49	0.17	0.40	97.74	0.17	97.57	1.00	0.989	1.016
0.54	0.13	0.39	97.98	0.16	97.81	1.00	0.999	1.006
0.54	0.12	0.42	97.49	0.18	97.31	1.00	0.997	1.012
0.44	0.21	0.39	97.77	0.16	97.61	1.00	1.004	1.006
0.64	0.14	0.41	98.22	0.17	98.05	1.00	0.999	1.009
0.58	0.17	0.42	98.04	0.17	97.86	1.00	0.997	1.012
0.43	0.12	0.50	97.80	0.21	97.59	1.00	0.999	1.004
0.39	0.07	0.59	97.91	0.25	97.67	1.00	0.996	1.011
0.26	0.11	0.59	98.02	0.25	97.77	1.00	0.995	1.019
0.33	0.08	0.58	97.33	0.25	97.09	1.00	0.996	1.023
0.40	0.07	0.51	97.35	0.21	97.13	1.00	0.996	1.015
0.33	0.07	0.59	97.50	0.25	97.26	1.00	0.992	1.016
0.16	0.05	0.54	97.65	0.23	97.42	1.01	0.991	1.010
0.72	0.10	0.44	98.29	0.18	98.11	1.00	0.992	1.012
0.38	0.04	0.45	98.33	0.19	98.14	1.01	0.989	1.011
0.22	0.02	0.47	95.15	0.20	94.96	1.00	0.999	1.006
0.19	0.02	0.58	98.29	0.24	98.05	1.00	0.999	1.010
0.09	0.05	0.60	97.98	0.25	97.73	1.01	0.992	1.005
0.03	0.04	0.67	97.97	0.28	97.69	1.01	0.984	1.014
0.05	0.02	0.73	98.05	0.31	97.74	1.00	0.992	1.009
0.26	0.03	0.50	97.80	0.21	97.59	1.00	0.995	1.012
0.34	0.02	0.46	97.51	0.19	97.32	1.01	0.990	1.004
0.47	0.10	0.47	96.95	0.20	96.75	1.01	0.994	1.002
0.50	0.13	0.49	96.70	0.21	96.49	1.01	1.000	0.995
0.56	0.14	0.47	98.09	0.20	97.89	1.00	0.997	1.011
0.55	0.08	0.50	97.79	0.21	97.58	1.00	0.997	1.010

0.80	0.17	0.32	98.01	0.14	97.88	1.00	1.001	1.004
0.62	0.10	0.41	95.08	0.17	94.91	1.05	1.048	0.911
0.76	0.26	0.44	98.51	0.19	98.32	1.01	1.004	1.000
0.54	0.11	0.45	97.27	0.19	97.08	1.00	1.007	1.003
0.53	0.17	0.40	97.93	0.17	97.76	1.00	1.006	1.011
0.62	0.10	0.42	98.14	0.17	97.97	1.00	1.006	1.006
0.62	0.15	0.39	97.94	0.16	97.78	1.00	1.000	1.012
0.80	0.12	0.33	98.38	0.14	98.24	1.00	1.001	1.017
0.69	0.11	0.32	97.74	0.13	97.61	1.00	1.003	1.010
0.58	0.16	0.37	98.34	0.15	98.18	1.00	0.999	1.011
0.57	0.16	0.44	98.06	0.18	97.87	1.00	1.005	1.005
0.53	0.10	0.50	97.80	0.21	97.59	1.01	0.995	1.003
0.57	0.14	0.47	98.01	0.20	97.81	1.00	0.999	1.009
0.57	0.14	0.43	98.34	0.18	98.16	1.00	1.002	1.007
0.87	0.15	0.38	97.89	0.16	97.73	1.00	0.999	1.007
0.66	0.14	0.44	97.92	0.19	97.73	1.00	1.001	1.006
0.53	0.13	0.41	97.89	0.17	97.71	1.00	0.995	1.009
0.57	0.19	0.45	98.18	0.19	97.99	1.00	1.001	1.005
0.65	0.17	0.40	97.12	0.17	96.96	1.00	0.994	1.014
0.19	0.01	0.58	98.26	0.25	98.02	1.00	0.998	1.007
0.36	0.09	0.49	97.99	0.21	97.79	1.00	0.989	1.020
0.52	0.10	0.44	96.99	0.18	96.81	1.01	0.977	1.026
0.85	0.16	0.45	97.34	0.19	97.15	1.01	0.977	1.023
0.83	0.18	0.48	97.98	0.20	97.78	1.00	0.994	1.010
0.55	0.08	0.38	97.85	0.16	97.69	1.00	0.987	1.021
0.69	0.09	0.41	97.32	0.17	97.15	1.00	0.996	1.019
0.66	0.18	0.38	97.74	0.16	97.58	1.00	1.005	1.020
0.61	0.19	0.45	97.99	0.19	97.80	1.00	1.002	1.005
0.55	0.12	0.42	96.97	0.18	96.79	1.00	0.993	1.013
0.66	0.07	0.49	97.97	0.21	97.76	1.00	0.998	1.008
0.56	0.09	0.47	97.77	0.20	97.57	1.00	0.993	1.013
0.18	0.00	0.56	97.78	0.24	97.54	1.00	0.991	1.017
0.18	0.02	0.52	98.14	0.22	97.92	1.00	0.991	1.017
0.22	0.00	0.58	98.25	0.25	98.00	1.00	0.993	1.017
0.73	0.19	0.26	98.01	0.11	97.90	1.00	0.992	1.035
0.75	0.20	0.27	97.85	0.11	97.74	1.00	0.994	1.031
0.69	0.15	0.29	98.23	0.12	98.11	1.00	0.995	1.022
0.76	0.19	0.28	98.32	0.12	98.20	1.00	0.994	1.032
0.18	0.08	0.58	98.29	0.24	98.05	1.00	0.995	1.017
0.15	0.01	0.50	98.94	0.21	98.72	1.00	0.990	1.017
0.06	0.00	0.67	98.87	0.28	98.59	1.00	0.983	1.020
0.03	0.00	0.67	98.72	0.28	98.44	1.00	0.983	1.022
0.30	0.06	0.47	99.06	0.20	98.87	1.00	0.992	1.018
0.34	0.06	0.48	97.93	0.20	97.73	1.00	0.992	1.016
0.49	0.11	0.38	98.16	0.16	98.00	1.00	0.992	1.014
0.49	0.09	0.47	97.99	0.20	97.79	1.00	0.995	1.014
0.62	0.12	0.50	97.85	0.21	97.64	1.00	0.991	1.017
0.50	0.16	0.43	98.05	0.18	97.87	1.00	0.989	1.020

0.52	0.18	0.47	97.51	0.20	97.32	1.00	0.996	1.015
0.56	0.14	0.45	98.00	0.19	97.81	1.00	0.996	1.016
0.38	0.09	0.47	98.41	0.20	98.21	1.00	0.992	1.020
0.44	0.08	0.44	98.25	0.18	98.07	1.00	0.995	1.018
0.44	0.15	0.45	98.40	0.19	98.21	1.00	0.982	1.029
0.45	0.10	0.40	98.33	0.17	98.16	1.00	0.991	1.024
0.39	0.10	0.48	98.03	0.20	97.82	1.00	0.991	1.020
0.46	0.12	0.39	97.94	0.16	97.78	1.00	0.990	1.022
0.51	0.10	0.47	98.09	0.20	97.89	1.00	0.994	1.015
0.51	0.06	0.47	97.87	0.20	97.67	1.00	0.990	1.020
0.47	0.09	0.52	98.09	0.22	97.87	1.00	0.991	1.019
0.48	0.07	0.46	89.29	0.20	89.10	1.00	0.997	1.013
0.46	0.10	0.43	98.14	0.18	97.96	1.00	0.996	1.013
0.41	0.14	0.46	98.10	0.19	97.91	1.00	0.989	1.021
0.29	0.04	0.51	98.64	0.21	98.42	1.00	0.989	1.021
0.33	0.05	0.59	98.30	0.25	98.05	1.00	0.993	1.017
0.26	0.02	0.56	98.45	0.23	98.21	1.00	0.984	1.027
0.25	0.06	0.56	98.86	0.23	98.62	1.00	0.989	1.021
0.22	0.05	0.62	98.44	0.26	98.18	1.00	0.992	1.017
0.39	0.14	0.47	97.90	0.20	97.70	1.00	0.987	1.021
0.64	0.21	0.49	98.34	0.21	98.13	1.00	0.990	1.020
0.54	0.13	0.47	98.40	0.20	98.20	1.00	0.983	1.025
0.63	0.14	0.46	98.36	0.20	98.17	1.00	0.993	1.014
0.59	0.13	0.47	98.14	0.20	97.94	1.00	0.994	1.014
0.38	0.09	0.34	98.71	0.14	98.57	1.00	0.991	1.018
0.31	0.10	0.45	98.87	0.19	98.68	1.00	0.990	1.015
0.33	0.02	0.39	99.13	0.16	98.97	1.00	0.994	1.013
0.35	0.07	0.34	98.86	0.14	98.71	1.00	1.010	0.997
0.22	0.08	0.52	97.95	0.22	97.73	1.00	0.999	1.007
0.41	0.06	0.49	97.85	0.21	97.64	1.00	1.000	1.004
0.31	0.07	0.52	99.03	0.22	98.82	1.00	1.000	1.002
0.24	0.06	0.49	99.10	0.21	98.89	1.00	0.992	1.011
0.17	0.02	0.55	99.12	0.23	98.89	1.00	0.998	1.006
0.64	0.52	0.33	99.34	0.14	99.20	1.00	0.990	1.022
0.24	0.05	0.39	99.38	0.16	99.21	1.00	1.001	1.007
0.55	0.10	0.39	98.80	0.16	98.63	1.00	0.990	1.016
0.60	0.14	0.46	98.51	0.19	98.31	1.00	0.989	1.018
0.53	0.13	0.45	98.83	0.19	98.64	1.00	0.995	1.013
0.27	0.02	0.57	98.99	0.24	98.75	1.00	0.993	1.012
0.24	0.05	0.57	98.26	0.24	98.02	1.00	0.996	1.010
0.45	0.09	0.45	98.04	0.19	97.85	1.00	0.996	1.012
0.67	0.17	0.46	98.05	0.19	97.86	1.00	0.991	1.017
0.62	0.18	0.49	97.97	0.21	97.76	1.00	0.993	1.015
0.55	0.08	0.36	97.72	0.15	97.57	1.00	0.997	1.019
0.50	0.16	0.36	98.00	0.15	97.85	1.00	0.996	1.025
0.48	0.14	0.51	97.70	0.22	97.48	1.00	0.994	1.021
0.67	0.20	0.38	98.10	0.16	97.93	1.00	0.994	1.024
0.52	0.13	0.56	97.91	0.23	97.68	1.00	0.995	1.026

0.68	0.18	0.35	97.53	0.15	97.38	1.00	1.005	1.029
0.62	0.12	0.37	97.94	0.16	97.79	1.00	0.997	1.035
0.66	0.17	0.33	97.61	0.14	97.47	1.00	1.000	1.035
0.63	0.12	0.33	97.92	0.14	97.79	1.00	0.996	1.041
0.48	0.10	0.48	98.06	0.20	97.86	1.00	0.996	1.026
0.57	0.14	0.51	98.14	0.22	97.93	1.00	0.990	1.029
0.69	0.07	0.48	98.13	0.20	97.93	1.00	0.996	1.019
0.62	0.10	0.50	97.64	0.21	97.43	1.00	0.997	1.016
0.57	0.16	0.44	97.92	0.18	97.73	1.00	0.991	1.019
0.70	0.23	0.44	98.42	0.18	98.24	1.00	1.004	1.002
0.09	0.04	0.58	98.36	0.24	98.11	1.00	0.994	1.008
0.07	0.00	0.55	98.64	0.23	98.41	1.00	0.992	1.014
0.14	0.07	0.44	98.30	0.19	98.11	1.00	0.994	1.017
0.31	0.07	0.36	98.03	0.15	97.88	1.00	0.996	1.033
0.37	0.07	0.35	97.79	0.15	97.65	1.00	0.988	1.041
0.28	0.05	0.36	98.25	0.15	98.10	1.00	1.000	1.029
0.41	0.12	0.38	98.06	0.16	97.90	1.00	0.994	1.032
0.30	0.11	0.40	97.91	0.17	97.74	1.00	0.997	1.032
0.32	0.10	0.34	97.98	0.14	97.84	1.00	0.993	1.038
0.20	0.11	0.37	98.56	0.15	98.40	1.00	0.995	1.029
0.24	0.05	0.32	98.07	0.14	97.93	1.00	0.992	1.032
0.20	0.00	0.38	98.87	0.16	98.72	1.00	0.997	1.022
0.18	0.03	0.36	97.96	0.15	97.81	1.00	0.992	1.027
0.29	0.03	0.38	98.53	0.16	98.37	1.00	0.989	1.030
0.06	0.00	0.53	98.26	0.22	98.04	1.00	0.992	1.025
0.11	0.04	0.56	98.40	0.24	98.17	1.00	0.998	1.014
0.04	0.00	0.69	98.14	0.29	97.85	1.00	0.988	1.016
0.46	0.02	0.45	99.26	0.19	99.07	1.00	0.995	1.010
0.49	0.08	0.44	98.48	0.19	98.29	1.00	0.995	1.010
0.79	0.14	0.28	98.61	0.12	98.49	1.00	0.997	1.012
0.38	0.02	0.45	99.17	0.19	98.98	1.00	0.987	1.015
0.22	0.06	0.49	99.45	0.21	99.24	1.00	0.990	1.013
0.59	0.10	0.37	99.26	0.16	99.11	1.00	0.991	1.012
0.50	0.12	0.53	99.76	0.22	99.54	1.00	0.996	1.010
0.09	0.06	0.65	100.23	0.27	99.95	1.00	0.997	1.009
0.50	0.08	0.37	99.59	0.16	99.44	1.00	0.993	1.014
0.51	0.00	0.57	99.45	0.24	99.21	1.00	0.990	1.015
0.09	0.00	0.59	99.61	0.25	99.36	1.00	0.989	1.013
0.36	0.10	0.57	99.60	0.24	99.36	1.00	0.996	1.006
0.36	0.12	0.48	99.48	0.20	99.28	1.00	0.989	1.014
0.15	0.00	0.64	99.37	0.27	99.10	1.00	0.994	1.010
0.19	0.02	0.52	92.48	0.22	92.26	0.92	0.912	1.175
0.06	0.04	0.64	98.27	0.27	98.00	1.00	0.988	1.013
0.59	0.04	0.37	99.06	0.16	98.90	1.00	0.992	1.015
0.00	0.02	0.69	100.56	0.29	100.27	1.00	0.982	1.025
0.02	0.00	0.71	99.76	0.30	99.46	1.00	0.987	1.020
0.39	0.12	0.52	99.63	0.22	99.41	1.00	0.992	1.014

0.26	0.08	0.55	99.16	0.23	98.93	1.00	0.994	1.008
0.17	0.00	0.64	99.67	0.27	99.40	1.00	0.985	1.019
0.05	0.00	0.67	99.49	0.28	99.21	1.00	0.988	1.016
0.13	0.00	0.56	99.13	0.24	98.89	1.00	0.991	1.011
0.37	0.00	0.51	99.83	0.22	99.62	1.00	0.996	1.009
0.16	0.04	0.68	99.16	0.29	98.87	1.03	1.025	0.945
0.37	0.06	0.58	99.89	0.24	99.65	1.00	0.994	1.009
0.16	0.05	0.71	99.18	0.30	98.88	1.00	0.995	1.009
0.27	0.08	0.52	98.82	0.22	98.60	1.00	0.997	1.007
0.29	0.01	0.66	98.82	0.28	98.54	1.00	1.000	1.005
0.30	0.05	0.64	98.68	0.27	98.41	1.00	0.998	1.006
0.37	0.08	0.52	99.13	0.22	98.91	1.00	1.005	0.998
0.56	0.20	0.50	98.90	0.21	98.69	1.00	0.998	1.006
0.40	0.05	0.55	99.03	0.23	98.80	1.00	0.992	1.011
0.39	0.09	0.48	99.36	0.20	99.16	1.00	1.000	1.003
0.43	0.15	0.51	98.03	0.21	97.82	1.00	1.006	0.999
0.55	0.10	0.50	98.68	0.21	98.47	1.00	0.997	1.005
0.26	0.03	0.63	98.80	0.26	98.53	1.00	0.997	1.006
0.63	0.22	0.54	100.11	0.23	99.88	1.00	0.995	1.010
0.54	0.22	0.46	99.72	0.19	99.53	1.00	0.998	1.005
0.42	0.17	0.55	99.81	0.23	99.58	1.00	0.993	1.010
0.10	0.05	0.65	100.14	0.27	99.86	1.00	0.988	1.022
0.21	0.00	0.61	100.87	0.26	100.62	1.00	0.991	1.014
0.40	0.06	0.59	100.76	0.25	100.51	1.00	0.992	1.015
0.02	0.00	0.73	100.29	0.31	99.98	1.00	0.986	1.016
0.64	0.01	0.48	99.60	0.20	99.40	1.00	0.994	1.011
0.00	0.00	2.68	101.50	1.13	100.36	1.00	0.988	1.013
0.03	0.01	2.79	101.35	1.17	100.18	1.00	0.986	1.014
0.00	0.00	2.30	91.85	0.97	90.88	1.03	0.964	1.011
0.59	0.14	0.38	99.98	0.16	99.82	1.00	0.990	1.016
0.44	0.01	0.45	100.47	0.19	100.28	1.00	0.990	1.014
0.38	0.08	0.43	100.51	0.18	100.33	1.00	0.986	1.022
0.04	0.05	0.63	100.37	0.27	100.11	1.00	0.977	1.025
0.23	0.08	0.56	100.16	0.24	99.92	1.00	0.989	1.019
0.00	0.00	3.02	101.15	1.27	99.88	1.00	0.988	1.013
0.34	0.05	0.35	100.03	0.15	99.88	1.00	0.990	1.016
0.32	0.06	0.55	100.46	0.23	100.23	1.00	0.992	1.016
0.10	0.00	0.61	100.71	0.26	100.46	1.00	0.988	1.017
0.12	0.04	0.75	101.14	0.31	100.83	1.00	0.992	1.010
0.06	0.00	0.67	100.67	0.28	100.39	1.00	0.995	1.007
0.07	0.00	0.66	101.26	0.28	100.98	1.00	0.988	1.015
0.00	0.00	0.60	101.18	0.25	100.93	1.00	0.988	1.015
0.21	0.04	0.63	100.33	0.26	100.06	1.00	0.985	1.019
0.34	0.11	0.44	99.92	0.18	99.73	1.00	0.985	1.020
0.57	0.00	0.62	100.26	0.26	100.00	1.00	0.979	1.025

0.61	0.10	0.56	99.07	0.24	98.83	1.00	0.991	1.013
0.56	0.16	0.40	99.55	0.17	99.38	1.00	0.986	1.020
0.25	0.09	0.59	99.43	0.25	99.18	1.00	0.984	1.022
0.66	0.11	0.66	99.31	0.28	99.03	1.00	0.972	1.033
0.54	0.14	0.34	99.42	0.14	99.28	1.00	0.987	1.024
0.30	0.00	0.58	99.15	0.24	98.91	1.00	0.984	1.019
0.79	0.11	0.47	99.29	0.20	99.09	1.00	0.996	1.007
0.13	0.00	0.62	99.70	0.26	99.44	1.00	0.989	1.012
0.29	0.00	0.41	99.83	0.17	99.66	1.00	0.980	1.025
0.24	0.07	0.49	99.96	0.20	99.75	1.00	0.986	1.019
0.39	0.13	0.65	99.88	0.27	99.60	1.00	0.981	1.024
0.42	0.01	0.55	99.25	0.23	99.02	1.00	0.986	1.020
0.43	0.06	0.40	99.39	0.17	99.22	1.00	0.987	1.020
0.25	0.00	0.36	98.72	0.15	98.57	1.00	0.995	1.007
0.14	0.13	0.55	100.19	0.23	99.96	1.00	0.984	1.022
0.20	0.03	0.41	99.47	0.17	99.30	1.00	0.987	1.020
0.37	0.06	0.49	100.63	0.20	100.42	1.00	0.986	1.021
0.37	0.09	0.54	99.74	0.23	99.51	1.00	0.997	1.006
0.18	0.09	0.48	99.17	0.20	98.97	1.00	0.993	1.008
0.41	0.02	0.58	100.23	0.24	99.99	1.00	0.980	1.024
0.26	0.09	0.50	99.62	0.21	99.41	1.00	0.988	1.015
0.30	0.00	0.51	98.98	0.21	98.76	1.00	0.992	1.010
0.41	0.01	0.63	98.70	0.26	98.44	1.00	0.997	1.005

0.10	0.04	0.59	98.63	0.25	98.38	1.00	0.995	1.006
0.16	0.01	0.56	98.73	0.23	98.49	1.00	0.991	1.009
0.22	0.03	0.29	98.65	0.12	98.53	1.00	0.988	1.013
0.36	0.00	0.42	98.53	0.18	98.35	1.00	0.984	1.016
0.34	0.08	0.33	98.51	0.14	98.37	1.00	0.984	1.017
0.26	0.04	0.51	98.61	0.21	98.40	1.00	0.980	1.019
0.12	0.00	0.56	98.38	0.23	98.14	1.00	0.980	1.020
0.20	0.02	0.51	98.71	0.21	98.50	1.00	0.980	1.020
0.17	0.10	0.50	97.39	0.21	97.18	1.00	0.965	1.033
0.38	0.06	0.40	99.21	0.17	99.04	1.00	0.984	1.016
0.48	0.19	0.38	98.32	0.16	98.17	1.00	0.995	1.005
0.75	0.13	0.30	97.24	0.13	97.12	1.00	0.992	1.007
1.03	0.26	0.26	97.29	0.11	97.18	1.00	0.991	1.009
1.02	0.18	0.27	96.91	0.11	96.80	1.00	0.986	1.005
0.44	0.01	0.49	98.75	0.21	98.55	1.00	0.998	1.002
1.40	0.26	0.34	97.34	0.14	97.20	1.00	0.969	1.009
0.91	0.19	0.35	97.16	0.15	97.02	1.00	0.997	1.002
0.22	0.03	0.43	97.99	0.18	97.81	1.00	0.997	0.999
0.26	0.06	0.50	97.88	0.21	97.67	1.00	0.996	1.004
0.53	0.10	0.44	98.02	0.18	97.83	1.00	0.997	0.999
0.86	0.18	0.37	97.42	0.15	97.27	1.00	1.001	1.000

1.18	0.23	0.28	96.61	0.12	96.49	1.00	0.987	1.005
1.38	0.29	0.27	96.32	0.11	96.21	1.00	0.988	1.002
1.17	0.19	0.34	97.17	0.14	97.03	1.00	0.957	1.005
0.91	0.26	0.37	97.08	0.16	96.92	1.00	0.992	1.003
0.61	0.10	0.40	97.97	0.17	97.80	1.00	0.995	1.003
0.37	0.01	0.44	97.83	0.18	97.64	1.00	0.989	1.011
0.11	0.02	0.77	98.40	0.32	98.07	1.00	0.995	1.005
0.27	0.07	0.43	98.30	0.18	98.12	1.00	0.989	1.011
0.28	0.04	0.45	98.41	0.19	98.22	1.00	0.990	1.010
1.05	0.22	0.25	97.29	0.11	97.19	1.00	0.994	1.006
0.95	0.04	0.27	97.59	0.11	97.47	1.00	0.998	1.003
0.48	0.09	0.31	98.07	0.13	97.94	1.00	0.992	1.007
0.43	0.11	0.46	99.07	0.19	98.88	1.00	0.983	1.017
0.23	0.00	0.38	98.81	0.16	98.65	1.00	0.982	1.018
0.27	0.01	0.35	99.12	0.15	98.97	1.00	0.978	1.021
0.22	0.07	0.72	97.49	0.30	97.19	1.00	0.987	1.013
0.19	0.08	0.58	97.55	0.25	97.30	1.00	0.982	1.018
0.19	0.09	0.56	97.67	0.23	97.43	1.00	0.984	1.016
0.26	0.04	0.32	97.85	0.13	97.72	1.00	0.982	1.017
0.21	0.07	0.34	97.65	0.14	97.50	1.00	0.987	1.013
0.30	0.08	0.38	97.70	0.16	97.54	1.00	0.980	1.021
1.00	0.20	0.23	96.37	0.10	96.27	1.00	0.978	1.021
0.50	0.16	0.48	96.72	0.20	96.52	1.00	0.985	1.015
0.25	0.02	0.33	97.76	0.14	97.62	1.00	0.989	1.011
0.28	0.12	0.64	98.06	0.27	97.79	1.00	0.978	1.023
0.20	0.00	0.50	97.58	0.21	97.37	1.00	0.975	1.025
0.33	0.08	0.33	98.12	0.14	97.99	1.00	0.972	1.028
1.14	0.16	0.21	96.54	0.09	96.45	1.00	0.971	1.028
1.56	0.21	0.19	95.97	0.08	95.89	1.00	0.983	1.015
1.43	0.25	0.18	96.00	0.08	95.93	1.00	0.977	1.023
1.02	0.21	0.32	96.66	0.13	96.53	1.00	0.972	1.024
0.89	0.14	0.34	97.04	0.14	96.89	1.00	0.972	1.022
0.93	0.20	0.38	97.42	0.16	97.27	1.00	0.970	1.030
0.20	0.10	0.45	98.16	0.19	97.97	1.00	0.971	1.028
0.29	0.00	0.39	98.49	0.16	98.33	1.01	0.983	1.003
0.65	0.09	0.49	98.34	0.21	98.13	1.00	0.981	1.018
0.48	0.07	0.36	98.90	0.15	98.75	1.00	0.973	1.027
0.17	0.02	0.57	98.93	0.24	98.69	1.00	0.977	1.023
0.13	0.00	0.74	99.21	0.31	98.90	1.00	0.979	1.021
0.80	0.23	0.39	98.28	0.16	98.12	1.00	0.982	1.019
1.08	0.22	0.32	97.78	0.14	97.64	1.00	0.983	1.017
0.73	0.10	0.57	98.83	0.24	98.59	1.00	0.975	1.025
0.72	0.13	0.46	98.63	0.19	98.43	1.00	0.977	1.023
0.53	0.10	0.38	98.52	0.16	98.36	1.00	0.977	1.023
0.61	0.21	0.39	98.47	0.16	98.31	1.00	0.976	1.024
0.70	0.14	0.38	98.31	0.16	98.15	1.00	0.977	1.022
0.14	0.07	0.72	99.36	0.30	99.06	1.00	0.981	1.020
0.08	0.00	0.59	99.71	0.25	99.46	1.00	0.975	1.025

1.50	0.15	0.28	97.74	0.12	97.62	1.00	0.978	1.019
0.87	0.18	0.44	98.39	0.19	98.20	1.00	0.983	1.017
0.49	0.08	0.44	98.33	0.18	98.15	1.00	0.971	1.029
0.87	0.29	0.35	98.82	0.15	98.67	1.00	0.972	1.028
0.71	0.17	0.33	97.75	0.14	97.61	1.00	0.979	1.021
1.31	0.32	0.28	97.48	0.12	97.37	1.00	0.972	1.024
0.77	0.17	0.33	97.93	0.14	97.79	1.00	0.971	1.029
0.66	0.14	0.40	98.11	0.17	97.94	1.00	0.976	1.024
0.20	0.03	0.57	99.15	0.24	98.91	1.00	0.973	1.027
0.63	0.07	0.50	97.79	0.21	97.57	1.00	0.973	1.027
0.52	0.15	0.46	97.76	0.20	97.56	1.00	0.968	1.032
0.87	0.20	0.33	97.67	0.14	97.53	1.00	0.963	1.038
1.00	0.07	0.36	97.78	0.15	97.63	1.00	0.976	1.023
0.74	0.11	0.32	97.91	0.13	97.77	1.00	0.964	1.035
1.11	0.26	0.25	96.93	0.10	96.82	1.00	0.980	1.020
0.31	0.02	0.37	97.76	0.16	97.60	1.00	0.972	1.029
0.17	0.07	0.49	98.11	0.20	97.90	1.00	0.965	1.035
0.61	0.00	0.48	96.98	0.20	96.77	1.00	0.968	1.033
0.88	0.17	0.24	96.55	0.10	96.45	1.00	0.973	1.027
0.89	0.23	0.29	96.40	0.12	96.28	1.00	0.974	1.025
0.97	0.19	0.24	96.26	0.10	96.16	1.00	0.980	1.020
0.58	0.17	0.40	97.81	0.17	97.65	1.00	0.977	1.023
0.93	0.13	0.29	96.87	0.12	96.75	1.00	0.980	1.021
0.76	0.17	0.33	97.83	0.14	97.69	1.00	0.972	1.028
0.33	0.11	0.32	97.94	0.13	97.80	1.00	0.985	1.015
0.32	0.08	0.35	98.10	0.15	97.95	1.00	0.979	1.021
0.30	0.07	0.32	97.86	0.14	97.72	1.00	0.981	1.020
0.30	0.09	0.32	98.50	0.13	98.37	1.00	0.975	1.024
0.24	0.03	0.35	98.21	0.15	98.06	1.00	0.973	1.027
0.56	0.08	0.39	98.25	0.16	98.09	1.00	0.977	1.023
0.35	0.11	0.29	98.58	0.12	98.46	1.00	0.972	1.028
0.15	0.07	0.46	99.40	0.19	99.20	1.00	0.978	1.022
0.86	0.23	0.21	98.57	0.09	98.48	1.00	0.983	1.016
0.61	0.13	0.31	99.22	0.13	99.09	1.00	0.980	1.020
0.80	0.07	0.24	97.93	0.10	97.83	1.00	0.978	1.011
0.60	0.11	0.31	98.71	0.13	98.58	1.00	0.976	1.023
0.74	0.11	0.25	98.78	0.10	98.68	1.00	0.978	1.019
1.01	0.17	0.22	96.54	0.09	96.44	1.00	0.982	1.017
0.86	0.25	0.21	97.14	0.09	97.05	1.00	0.971	1.014
0.44	0.12	0.39	99.15	0.16	98.98	1.00	0.990	1.010
0.20	0.05	0.53	99.17	0.22	98.95	1.00	0.982	1.018
0.22	0.00	0.47	99.48	0.20	99.29	1.00	0.985	1.014
0.08	0.09	0.63	99.98	0.26	99.72	1.00	0.984	1.016
0.75	0.18	0.32	98.68	0.14	98.54	1.00	0.986	1.015
0.75	0.09	0.22	98.66	0.09	98.57	1.00	0.977	1.023
0.94	0.13	0.26	98.10	0.11	97.99	1.00	0.977	1.023
0.84	0.11	0.26	97.76	0.11	97.66	1.00	0.975	1.025
0.47	0.14	0.30	98.57	0.13	98.44	1.00	0.975	1.024

0.65	0.09	0.27	97.71	0.11	97.59	1.00	0.971	1.025
0.71	0.12	0.26	97.74	0.11	97.63	1.00	0.972	1.026
0.34	0.06	0.38	98.64	0.16	98.48	1.00	0.973	1.028
0.25	0.03	0.45	99.51	0.19	99.32	1.00	0.982	1.018
1.19	0.29	0.27	96.54	0.12	96.42	1.00	0.996	1.003
0.87	0.23	0.35	97.86	0.15	97.71	1.01	0.986	1.007
0.89	0.16	0.32	97.82	0.13	97.69	1.00	0.985	1.014
0.68	0.14	0.35	97.59	0.15	97.44	1.00	0.988	1.008
0.83	0.23	0.29	97.50	0.12	97.37	1.00	0.978	1.021
1.08	0.23	0.33	96.33	0.14	96.19	1.00	0.972	1.020
1.07	0.15	0.26	96.30	0.11	96.19	1.00	0.961	1.028
1.04	0.24	0.37	96.75	0.16	96.59	1.00	0.976	1.024
1.04	0.25	0.44	96.52	0.18	96.33	1.00	0.970	1.031
0.41	0.05	0.54	96.93	0.23	96.70	1.00	0.967	1.033
0.24	0.09	0.45	97.12	0.19	96.93	1.00	0.967	1.034
0.37	0.06	0.40	96.84	0.17	96.67	1.00	0.963	1.037
0.45	0.13	0.40	95.82	0.17	95.65	1.00	0.960	1.040
0.47	0.06	0.38	96.17	0.16	96.01	1.00	0.953	1.046
0.34	0.06	0.36	98.77	0.15	98.62	1.00	0.985	1.015
0.40	0.07	0.48	98.33	0.20	98.13	1.00	0.983	1.016
0.19	0.09	0.44	99.45	0.18	99.26	1.00	0.985	1.016
0.36	0.06	0.40	98.81	0.17	98.64	1.00	0.986	1.014
0.42	0.11	0.41	99.45	0.17	99.27	1.00	1.002	0.999
0.25	0.00	0.37	99.62	0.15	99.47	1.00	0.982	1.019
0.25	0.05	0.43	99.54	0.18	99.35	1.00	0.984	1.016
0.63	0.14	0.30	99.05	0.13	98.92	1.00	0.987	1.014
0.48	0.07	0.48	99.63	0.20	99.43	1.00	0.984	1.017
0.58	0.17	0.45	99.28	0.19	99.09	1.00	0.985	1.016
0.21	0.00	0.40	99.57	0.17	99.40	1.00	0.982	1.018
0.35	0.13	0.35	99.48	0.15	99.33	1.00	0.980	1.020
0.19	0.05	0.38	99.93	0.16	99.77	1.00	0.973	1.028
0.12	0.01	0.43	99.88	0.18	99.70	1.00	0.980	1.020
0.18	0.08	0.45	99.73	0.19	99.54	1.00	0.975	1.026
0.20	0.05	0.45	99.96	0.19	99.77	1.00	0.980	1.020
0.04	0.00	0.61	100.02	0.25	99.77	1.00	0.975	1.026
0.08	0.05	0.48	100.41	0.20	100.21	1.00	0.975	1.024
0.14	0.05	0.50	99.73	0.21	99.52	1.00	0.978	1.022
0.16	0.04	0.48	100.02	0.20	99.82	1.00	0.977	1.024
0.23	0.00	0.53	99.69	0.22	99.47	1.00	0.978	1.021
0.51	0.07	0.40	99.20	0.17	99.03	1.00	0.984	1.015
0.04	0.03	0.76	100.74	0.32	100.42	1.00	0.976	1.025
0.04	0.08	0.78	100.90	0.33	100.57	1.00	0.975	1.024
0.42	0.09	0.40	100.17	0.17	100.00	1.00	0.976	1.025
0.16	0.02	0.51	99.86	0.21	99.64	1.00	0.981	1.020
0.14	0.05	0.50	99.24	0.21	99.02	1.00	0.986	1.014
0.18	0.02	0.38	99.25	0.16	99.10	1.00	0.991	1.010
0.30	0.09	0.38	98.74	0.16	98.58	1.00	0.988	1.010
0.17	0.02	0.54	99.43	0.23	99.21	1.00	0.987	1.014

0.17	0.04	0.35	99.48	0.15	99.34	1.00	0.978	1.022
0.35	0.03	0.38	98.24	0.16	98.08	1.00	0.992	1.008
0.27	0.04	0.47	99.06	0.20	98.86	1.00	0.992	1.009
0.49	0.02	0.36	98.35	0.15	98.20	1.00	0.992	1.008
0.43	0.03	0.39	98.34	0.17	98.18	1.00	0.989	1.012
0.01	0.03	0.52	99.25	0.22	99.02	1.00	0.991	1.008
1.16	0.25	0.27	97.41	0.12	97.29	1.00	0.995	1.003
1.05	0.22	0.34	97.79	0.14	97.65	1.00	0.989	1.010
0.88	0.25	0.35	98.69	0.15	98.54	1.00	0.995	1.006
0.24	0.06	0.45	98.78	0.19	98.59	1.01	0.993	1.001
1.34	0.30	0.38	98.38	0.16	98.22	1.00	0.993	1.006
0.67	0.24	0.48	98.20	0.20	98.00	1.00	0.995	1.004
0.72	0.06	0.39	98.02	0.17	97.86	1.00	0.993	1.007
0.46	0.08	0.47	99.07	0.20	98.87	1.00	0.998	1.002
0.38	0.08	0.50	99.11	0.21	98.90	1.00	0.991	1.009
0.31		0.41	98.75	0.17	98.58	1.00	0.990	1.010
0.87	0.21	0.36	98.96	0.15	98.81	1.00	0.986	1.014
0.27	0.02	0.33	98.59	0.14	98.45	1.00	0.995	1.003
0.20	0.08	0.40	98.75	0.17	98.58	1.00	0.990	1.010
0.33	0.05	0.44	98.86	0.18	98.68	1.00	0.986	1.012
0.23	0.10	0.61	99.58	0.26	99.33	1.00	0.986	1.014
0.30	0.12	0.34	99.49	0.14	99.34	1.00	0.989	1.011
0.38	0.11	0.36	99.84	0.15	99.69	1.00	0.981	1.019
0.32		0.34	99.38	0.14	99.23	1.00	0.994	1.007
0.18	0.04	0.59	100.09	0.25	99.85	1.00	0.985	1.015
0.13	0.02	0.43	99.24	0.18	99.06	1.00	0.992	1.008
0.14	0.01	0.54	99.83	0.23	99.60	1.00	0.987	1.013
0.19	0.03	0.48	99.84	0.20	99.63	1.00	0.984	1.016
0.28	0.07	0.40	100.04	0.17	99.87	1.00	0.982	1.017
0.20		0.36	99.42	0.15	99.27	1.00	0.985	1.016
0.40	0.08	0.42	99.23	0.18	99.05	1.00	0.983	1.017
0.24		0.78	99.83	0.33	99.50	1.00	0.978	1.021
0.14		0.70	99.34	0.30	99.04	1.00	0.976	1.024
0.23	0.06	0.36	98.88	0.15	98.73	1.00	0.984	1.016
0.48	0.16	0.31	99.53	0.13	99.40	1.00	0.992	1.008
0.51	0.11	0.33	99.17	0.14	99.03	1.00	0.989	1.011
0.78	0.18	0.38	99.18	0.16	99.03	1.00	0.992	1.007
0.92	0.16	0.41	98.72	0.17	98.55	1.00	0.989	1.010
0.40	0.10	0.42	99.38	0.18	99.20	1.00	0.992	1.008
1.02	0.24	0.40	98.72	0.17	98.55	1.00	0.991	1.010
0.48	0.07	0.47	99.13	0.20	98.93	1.00	0.981	1.018
0.71	0.08	0.41	99.27	0.17	99.10	1.00	0.984	1.015
0.40	0.05	0.49	99.17	0.21	98.96	1.00	0.980	1.019
0.32	0.06	0.49	99.54	0.21	99.34	1.00	0.987	1.013
0.26	0.05	0.57	99.17	0.24	98.93	1.00	0.987	1.013
0.66	0.15	0.51	99.05	0.22	98.83	1.00	0.986	1.014
0.70	0.16	0.39	98.76	0.16	98.59	1.00	0.987	1.013
0.46	0.08	0.46	99.31	0.19	99.11	1.00	0.986	1.014

0.28	0.12	0.44	99.13	0.18	98.95	1.00	0.978	1.022
0.33	0.00	0.42	99.34	0.18	99.16	1.00	0.981	1.019
1.24	0.18	0.35	98.43	0.15	98.28	1.00	0.981	1.018
0.56	0.14	0.34	99.14	0.14	99.00	1.00	0.986	1.015
1.10	0.23	0.33	98.83	0.14	98.69	1.00	0.984	1.017
0.34	0.09	0.57	99.49	0.24	99.25	1.00	0.985	1.015
0.03	0.09	0.71	100.07	0.30	99.77	1.00	0.980	1.019
0.45	0.10	0.48	99.32	0.20	99.12	1.00	0.982	1.018
0.13	0.08	0.68	99.64	0.29	99.35	1.00	0.981	1.020
0.17	0.00	0.50	98.35	0.21	98.14	1.00	0.978	1.021
0.46	0.20	0.48	98.78	0.20	98.58	1.00	0.997	1.001
0.23	0.02	0.57	98.26	0.24	98.02	1.00	1.005	0.994
0.35	0.19	0.35	98.88	0.15	98.74	1.00	0.995	1.005
0.47	0.09	0.33	98.42	0.14	98.28	1.00	0.994	1.006
0.37	0.03	0.35	99.16	0.15	99.01	1.00	0.994	1.007
0.45	0.03	0.45	99.35	0.19	99.16	1.00	0.991	1.008
0.43	0.05	0.38	99.02	0.16	98.86	1.00	0.998	1.002
0.26	0.05	0.55	99.08	0.23	98.85	1.00	0.995	1.005
0.44	0.12	0.52	98.78	0.22	98.56	1.00	0.989	1.010
0.40	0.01	0.38	98.72	0.16	98.56	1.00	0.997	1.003
0.38	0.09	0.35	98.51	0.15	98.36	1.00	0.998	1.002
0.51	0.13	0.54	98.43	0.23	98.20	1.00	0.989	1.011
0.38	0.10	0.33	99.09	0.14	98.95	1.00	0.985	1.015
0.58	0.09	0.33	98.47	0.14	98.33	1.00	0.991	1.007
0.26	0.07	0.58	98.49	0.25	98.25	1.00	0.987	1.013
0.60	0.16	0.42	98.57	0.18	98.40	1.00	0.989	1.010
0.36	0.14	0.37	98.70	0.15	98.55	1.00	0.993	1.007
0.50	0.11	0.36	98.97	0.15	98.81	1.00	0.984	1.016
0.34	0.03	0.37	98.30	0.15	98.14	1.00	0.986	1.014
0.74	0.16	0.39	98.86	0.16	98.70	1.00	0.989	1.010
0.34	0.13	0.42	98.94	0.18	98.76	1.00	0.982	1.018
0.13	0.07	0.53	99.97	0.22	99.75	1.00	0.976	1.024
0.78	0.04	0.37	99.05	0.16	98.89	1.00	0.987	1.014
0.20	0.03	0.56	99.19	0.24	98.95	1.00	0.989	1.012
0.35	0.08	0.49	100.18	0.21	99.97	1.00	0.981	1.019
0.60	0.06	0.48	99.15	0.20	98.95	1.00	0.984	1.015
0.30	0.03	0.43	99.90	0.18	99.72	1.00	0.986	1.014
1.02	0.16	0.32	98.76	0.13	98.62	1.00	0.983	1.017
0.33	0.09	0.41	97.83	0.17	97.66	1.00	0.993	1.008
0.70	0.17	0.41	97.63	0.17	97.46	1.00	0.995	1.005
0.35	0.05	0.45	97.90	0.19	97.71	1.00	0.990	1.008
0.31	0.08	0.43	98.45	0.18	98.27	1.00	0.993	1.007
0.52	0.04	0.38	98.47	0.16	98.31	1.00	0.991	1.009
0.56	0.09	0.42	98.41	0.17	98.24	1.00	0.988	1.012
0.73	0.14	0.32	98.26	0.13	98.12	1.00	0.985	1.015
0.00	0.11	0.57	98.51	0.24	98.27	1.00	0.981	1.019
0.96	0.23	0.35	98.35	0.15	98.21	1.00	0.979	1.020
0.14	0.06	0.67	99.13	0.28	98.85	1.00	0.986	1.013

1.08	0.17	0.28	97.35	0.12	97.23	1.00	0.986	1.014
0.31	0.04	0.40	98.58	0.17	98.41	1.00	0.982	1.018
0.18	0.03	0.49	98.17	0.21	97.96	1.00	0.984	1.016
0.31	0.05	0.55	99.31	0.23	99.08	1.00	0.991	1.010
0.71	0.05	0.47	97.94	0.20	97.74	1.00	0.991	1.010
0.64	0.07	0.41	98.55	0.17	98.38	1.00	0.990	1.011
0.71	0.06	0.32	98.51	0.14	98.37	1.00	0.988	1.012
0.43	0.08	0.35	99.69	0.15	99.54	1.00	0.987	1.014
1.06	0.14	0.35	98.53	0.15	98.38	1.00	0.993	1.007
1.03	0.29	0.34	98.38	0.14	98.24	1.00	0.986	1.014
0.72	0.17	0.46	99.11	0.19	98.92	1.00	0.995	1.006
0.30	0.07	0.53	99.53	0.22	99.30	1.00	0.984	1.015
0.96	0.16	0.32	98.14	0.14	98.00	1.00	0.995	1.004
0.52	0.07	0.45	99.26	0.19	99.07	1.00	0.985	1.015
0.28	0.10	0.52	99.53	0.22	99.31	1.00	0.989	1.012
0.31	0.04	0.56	99.37	0.24	99.13	1.00	0.988	1.013
0.18	0.01	0.63	99.76	0.27	99.49	1.00	0.986	1.014
0.28	0.12	0.54	99.94	0.23	99.71	1.00	0.982	1.018
0.40	0.08	0.52	98.90	0.22	98.68	1.00	0.988	1.013
0.98	0.26	0.29	96.99	0.12	96.87	1.00	1.000	0.998
0.17	0.03	0.72	99.56	0.30	99.26	1.00	0.991	1.009
0.27	0.00	0.64	98.84	0.27	98.57	1.00	0.995	1.005
0.42	0.06	0.52	99.16	0.22	98.94	1.00	0.993	1.008
0.27	0.02	0.56	99.67	0.23	99.44	1.00	0.995	1.005
0.48	0.11	0.41	99.12	0.17	98.95	1.00	0.989	1.011
0.29	0.06	0.36	99.85	0.15	99.69	1.00	0.986	1.014
0.43	0.12	0.38	99.19	0.16	99.02	1.00	0.993	1.007
0.51	0.07	0.36	99.20	0.15	99.05	1.00	0.993	1.008
0.55	0.18	0.34	98.71	0.14	98.57	1.00	0.992	1.007
0.47	0.09	0.31	98.57	0.13	98.44	1.00	0.986	1.014
0.38	0.09	0.50	99.13	0.21	98.92	1.00	0.988	1.012
0.41	0.08	0.48	98.77	0.20	98.57	1.00	0.988	1.012
0.34	0.09	0.51	99.09	0.21	98.88	1.00	0.988	1.013
0.44	0.04	0.41	98.84	0.17	98.67	1.00	0.990	1.010
0.27	0.10	0.42	97.88	0.18	97.71	1.00	0.988	1.011
0.28	0.05	0.42	98.06	0.18	97.88	1.00	0.985	1.013
0.20	0.01	0.62	99.24	0.26	98.98	1.00	0.991	1.010
0.51	0.14	0.21	95.76	0.09	95.68	1.00	0.976	1.025
0.52	0.21	0.30	97.51	0.13	97.38	1.00	0.983	1.018
0.53	0.23	0.30	97.94	0.13	97.81	1.00	0.990	1.021
0.55	0.23	0.25	97.37	0.10	97.26	1.00	0.993	1.026
0.59	0.17	0.25	97.13	0.11	97.03	1.00	0.989	1.029
0.55	0.22	0.37	97.46	0.15	97.31	1.00	0.986	1.025
0.60	0.25	0.23	96.47	0.10	96.37	1.00	0.985	1.035
0.47	0.06	0.29	97.43	0.12	97.31	1.00	0.986	1.025
0.42	0.14	0.33	97.41	0.14	97.27	1.00	0.982	1.030
0.27	0.04	0.30	96.76	0.13	96.64	1.00	0.971	1.037
0.50	0.12	0.44	98.12	0.18	97.94	1.00	0.986	1.022

0.40	0.02	0.26	96.79	0.11	96.68	1.00	0.982	1.029
0.27	0.24	0.30	97.72	0.13	97.59	1.00	0.986	1.026
0.27	0.04	0.35	97.22	0.15	97.07	1.00	0.978	1.028
0.47	0.00	0.35	98.20	0.15	98.06	1.00	0.985	1.021
0.41	0.12	0.28	98.53	0.12	98.41	1.00	0.984	1.026
0.01	0.03	0.71	98.81	0.30	98.51	1.00	0.978	1.023
0.03	0.00	0.75	98.92	0.32	98.60	1.00	0.977	1.024
0.68	0.28	0.27	97.02	0.11	96.91	1.00	0.981	1.035
0.49	0.20	0.26	96.60	0.11	96.49	1.00	0.986	1.032
0.37	0.18	0.28	97.90	0.12	97.78	1.00	0.983	1.029
0.40	0.15	0.27	97.99	0.11	97.87	1.00	0.982	1.031
0.53	0.06	0.25	96.73	0.10	96.63	1.00	0.976	1.039
0.31	0.16	0.28	98.27	0.12	98.16	1.00	0.982	1.031
0.30	0.15	0.45	97.67	0.19	97.48	1.00	0.981	1.025
0.41	0.16	0.35	97.64	0.15	97.49	1.00	0.993	1.017
0.24	0.01	0.48	98.31	0.20	98.11	1.00	0.986	1.021
0.11	0.03	0.40	98.29	0.17	98.12	1.00	0.984	1.027
0.20	0.00	0.56	98.71	0.24	98.47	1.00	0.979	1.026
0.10	0.05	0.58	98.98	0.25	98.73	1.00	0.983	1.023
0.22	0.10	0.54	99.14	0.23	98.91	1.00	0.984	1.022
0.18	0.06	0.45	98.71	0.19	98.52	1.00	0.983	1.021
0.16	0.05	0.45	98.36	0.19	98.17	1.00	0.983	1.026
0.22	0.04	0.51	97.86	0.21	97.65	1.00	0.976	1.030
0.19	0.11	0.49	98.68	0.21	98.47	1.00	0.980	1.026
0.13	0.12	0.40	98.61	0.17	98.44	1.00	0.982	1.027
0.04	0.11	0.44	99.22	0.18	99.04	1.00	0.975	1.030
0.15	0.00	0.45	98.44	0.19	98.25	1.00	0.971	1.034
0.15	0.15	0.52	99.16	0.22	98.94	1.00	0.982	1.023
0.20	0.00	0.64	99.14	0.27	98.87	1.00	0.978	1.025
0.13	0.00	0.43	99.04	0.18	98.86	1.00	0.974	1.031
0.00	0.10	0.44	98.77	0.19	98.58	1.00	0.969	1.034
0.05	0.01	0.60	98.09	0.25	97.84	1.00	0.968	1.038
0.24	0.05	0.47	97.50	0.20	97.30	0.94	1.017	1.053
0.10	0.00	0.68	98.51	0.29	98.22	1.00	0.992	1.010
0.20	0.00	0.61	98.71	0.26	98.46	1.00	0.989	1.011
0.14	0.10	0.51	99.37	0.21	99.15	1.00	0.975	1.031
0.36	0.29	0.37	98.94	0.16	98.78	1.00	0.995	1.013
0.39	0.00	0.43	97.63	0.18	97.45	1.00	0.998	1.008
0.42	0.10	0.38	97.16	0.16	97.00	1.00	0.986	1.020
0.81	0.26	0.30	97.33	0.13	97.21	1.00	0.993	1.015
0.59	0.35	0.27	94.34	0.11	94.23	0.94	0.997	1.081
0.70	0.12	0.16	95.87	0.07	95.81	1.00	1.002	1.019
0.84	0.33	0.23	96.41	0.10	96.31	1.00	0.997	1.020
0.51	0.10	0.34	98.12	0.14	97.97	1.00	0.990	1.017
0.80	0.33	0.23	97.26	0.10	97.16	1.00	1.001	1.008
0.81	0.18	0.18	93.50	0.08	93.42	1.00	1.004	1.006
0.91	0.00	0.23	97.02	0.10	96.92	1.00	0.997	1.014
0.33	0.00	0.32	98.72	0.13	98.59	1.00	0.997	1.010

0.26	0.06	0.38	97.67	0.16	97.51	1.00	1.000	1.008
0.00	0.00	0.63	98.94	0.27	98.68	1.00	0.994	1.010
0.33	0.08	0.55	99.06	0.23	98.82	1.00	0.996	1.006
0.54	0.26	0.23	97.37	0.10	97.27	1.00	1.002	1.010
0.09	0.05	0.37	97.98	0.16	97.82	1.00	0.998	1.010
0.27	0.00	0.34	97.80	0.14	97.65	1.00	0.980	1.025
0.18	0.09	0.41	98.85	0.17	98.67	1.00	0.984	1.025
0.46	0.05	0.37	96.53	0.15	96.37	1.00	1.046	0.963
0.55	0.27	0.45	97.33	0.19	97.13	1.00	0.994	1.012
0.71	0.20	0.31	97.11	0.13	96.98	1.00	1.001	1.007
0.82	0.33	0.30	97.75	0.13	97.62	1.00	1.000	1.009
0.45	0.24	0.38	98.00	0.16	97.83	1.00	0.992	1.015
0.83	0.14	0.37	96.22	0.16	96.07	1.00	0.998	1.014
0.54	0.21	0.35	97.42	0.15	97.28	1.00	0.995	1.021
0.60	0.10	0.32	97.46	0.13	97.33	1.00	0.992	1.021
0.59	0.20	0.26	97.15	0.11	97.04	1.00	0.989	1.021
0.50	0.14	0.20	97.01	0.08	96.93	1.00	0.997	1.018
0.62	0.18	0.45	97.24	0.19	97.05	1.00	0.988	1.019
0.41	0.09	0.48	97.86	0.20	97.66	1.00	0.993	1.017
0.24	0.08	0.48	98.13	0.20	97.93	1.00	0.990	1.017
0.33	0.08	0.24	97.55	0.10	97.44	1.00	1.000	1.013
0.45	0.24	0.34	98.09	0.14	97.94	1.00	0.992	1.023
0.43	0.02	0.27	98.16	0.12	98.04	1.00	0.993	1.023
0.35	0.06	0.32	98.06	0.14	97.93	1.00	0.987	1.024
0.20	0.00	0.33	98.01	0.14	97.87	1.00	0.992	1.022
0.00	0.00	0.60	99.17	0.25	98.92	1.00	0.989	1.013
0.00	0.03	0.65	98.54	0.27	98.26	1.00	0.988	1.015
0.21	0.00	0.55	98.20	0.23	97.97	1.00	0.982	1.023
0.19	0.00	0.43	97.86	0.18	97.67	1.00	0.989	1.017
0.33	0.08	0.35	97.89	0.15	97.74	1.00	0.985	1.027
0.49	0.20	0.28	97.63	0.12	97.51	1.00	0.980	1.038
0.38	0.20	0.33	97.35	0.14	97.21	1.00	0.983	1.037
0.31	0.04	0.23	96.96	0.10	96.87	1.00	0.993	1.024
0.00	0.00	0.58	99.15	0.25	98.90	1.00	0.995	1.006
0.10	0.01	0.68	98.40	0.29	98.11	1.00	0.981	1.021
0.36	0.47	0.41	98.50	0.17	98.33	1.00	0.990	1.018
0.38	0.16	0.26	95.31	0.11	95.20	1.11	1.072	0.834
0.21	0.18	0.29	97.81	0.12	97.69	1.00	0.993	1.026
0.24	0.01	0.32	97.36	0.14	97.23	1.00	1.006	1.007
0.15	0.04	0.43	98.07	0.18	97.88	1.00	0.989	1.019
0.21	0.20	0.37	97.96	0.16	97.81	1.00	0.994	1.018
0.20	0.00	0.42	97.66	0.18	97.48	1.00	0.991	1.017
0.00	0.02	0.58	100.20	0.24	99.96	1.00	0.974	1.027
0.07	0.00	0.71	99.93	0.30	99.63	1.00	0.966	1.036
0.05	0.06	0.69	99.67	0.29	99.37	1.00	0.966	1.036
0.00	0.00	0.67	100.18	0.28	99.90	1.00	0.974	1.029
0.00	0.05	0.59	100.09	0.25	99.84	1.00	0.971	1.031
0.16	0.00	0.69	100.01	0.29	99.72	1.00	0.972	1.031

0.09	0.08	0.62	99.46	0.26	99.20	1.00	0.972	1.032
0.00	0.00	0.75	99.71	0.31	99.39	1.00	0.971	1.031
0.12	0.00	0.42	100.16	0.18	99.98	1.00	0.972	1.029
0.08	0.06	0.62	99.86	0.26	99.60	1.00	0.968	1.035
0.07	0.05	0.54	99.01	0.23	98.78	1.00	0.971	1.037
0.16	0.00	0.66	99.91	0.28	99.63	1.00	0.967	1.037
0.31	0.00	0.31	98.78	0.13	98.65	1.00	0.971	1.042
0.00	0.03	0.66	100.72	0.28	100.44	1.00	0.975	1.028
0.00	0.00	0.53	100.04	0.22	99.82	1.00	0.972	1.033
0.09	0.00	0.51	99.99	0.21	99.77	1.00	0.973	1.032
0.11	0.00	0.56	100.42	0.24	100.19	1.00	0.972	1.031
0.11	0.05	0.64	99.81	0.27	99.54	1.00	0.969	1.033
0.07	0.05	0.64	99.86	0.27	99.59	1.00	0.967	1.036
0.25	0.00	0.50	99.18	0.21	98.97	1.00	0.970	1.037
0.07	0.03	0.46	99.22	0.19	99.02	1.00	0.969	1.039
0.04	0.00	0.49	99.97	0.21	99.76	1.00	0.975	1.032
0.51	0.12	0.44	98.03	0.18	97.84	1.00	0.980	1.026
0.51	0.27	0.43	99.06	0.18	98.88	1.00	0.986	1.020
0.09	0.04	0.48	99.46	0.20	99.26	1.00	0.965	1.039
0.23	0.16	0.33	99.00	0.14	98.87	1.00	0.973	1.037
0.08	0.00	0.49	98.95	0.21	98.74	1.00	0.972	1.032
0.00	0.00	0.60	99.37	0.25	99.12	1.00	0.976	1.029
0.00	0.02	0.58	100.20	0.24	99.96	1.00	0.974	1.027
0.07	0.00	0.71	99.93	0.30	99.63	1.00	0.965	1.035
0.05	0.06	0.69	99.67	0.29	99.37	1.00	0.964	1.036
0.00	0.00	0.67	100.18	0.28	99.90	1.00	0.972	1.029
0.00	0.05	0.59	100.09	0.25	99.84	1.00	0.970	1.030
0.16	0.00	0.69	100.01	0.29	99.72	1.00	0.970	1.031
0.09	0.08	0.62	99.46	0.26	99.20	1.00	0.969	1.031
0.00	0.00	0.75	99.71	0.31	99.39	1.00	0.971	1.031
0.12	0.00	0.42	100.16	0.18	99.98	1.00	0.971	1.029
0.08	0.06	0.62	99.86	0.26	99.60	1.00	0.967	1.036
0.07	0.05	0.54	99.01	0.23	98.78	1.00	0.966	1.036
0.16	0.00	0.66	99.91	0.28	99.63	1.00	0.966	1.036
0.00	0.03	0.66	100.72	0.28	100.44	1.00	0.974	1.027
0.31	0.00	0.31	98.78	0.13	98.65	1.00	0.965	1.040
0.00	0.00	0.53	100.04	0.22	99.82	1.00	0.967	1.032
0.09	0.00	0.51	99.99	0.21	99.77	1.00	0.969	1.031
0.11	0.00	0.56	100.42	0.24	100.19	1.00	0.970	1.031
0.11	0.05	0.64	99.81	0.27	99.54	1.00	0.968	1.034
0.07	0.05	0.64	99.86	0.27	99.59	1.00	0.966	1.036
0.25	0.00	0.50	99.18	0.21	98.97	1.00	0.970	1.037
0.07	0.03	0.46	99.22	0.19	99.02	1.00	0.965	1.038
0.04	0.00	0.49	99.97	0.21	99.76	1.00	0.971	1.031
0.51	0.12	0.44	98.03	0.18	97.84	1.00	0.985	1.028
0.51	0.27	0.43	99.06	0.18	98.88	1.00	0.994	1.021
0.09	0.04	0.48	99.46	0.20	99.26	1.00	0.963	1.038
0.23	0.16	0.33	99.00	0.14	98.87	1.00	0.971	1.037

0.08	0.00	0.49	98.95	0.21	98.74	1.00	0.970	1.033
0.00	0.00	0.60	99.37	0.25	99.12	1.00	0.972	1.028
0.26	0.07	0.38	99.19	0.16	99.03	1.00	0.981	1.022
0.26	0.07	0.38	99.19	0.16	99.03	1.00	0.984	1.022
0.19	0.07	0.39	98.75	0.17	98.58	1.00	0.982	1.020
0.19	0.07	0.39	98.75	0.17	98.58	1.00	0.984	1.020
0.37	0.02	0.52	99.12	0.22	98.90	1.00	0.981	1.020
0.37	0.02	0.52	99.12	0.22	98.90	1.00	0.981	1.020
0.13	0.01	0.52	99.06	0.22	98.84	1.00	0.989	1.013
0.59	0.10	0.37	99.26	0.16	99.11	1.00	0.991	1.012
0.45	0.14	0.44	99.61	0.18	99.42	1.00	0.983	1.022
0.45	0.14	0.44	99.61	0.18	99.42	1.00	0.981	1.021
0.48	0.07	0.38	98.87	0.16	98.71	1.00	0.993	1.014
0.23	0.07	0.51	99.86	0.22	99.64	1.00	0.992	1.012
0.23	0.07	0.51	99.86	0.22	99.64	1.00	0.992	1.012
0.19	0.04	0.47	100.40	0.20	100.20	1.00	0.979	1.024
0.19	0.04	0.47	100.40	0.20	100.20	1.00	0.981	1.024
0.25	0.00	0.64	99.76	0.27	99.49	1.00	0.977	1.024
0.25	0.00	0.64	99.76	0.27	99.49	1.00	0.978	1.024
0.14	0.00	0.59	99.48	0.25	99.23	1.00	0.988	1.015
0.14	0.00	0.59	99.48	0.25	99.23	1.00	0.989	1.015
0.27	0.00	0.43	99.44	0.18	99.26	1.00	0.986	1.015
0.27	0.00	0.43	99.44	0.18	99.26	1.00	0.987	1.015
0.16	0.00	0.70	99.91	0.29	99.62	1.00	0.986	1.014
0.09	0.00	0.53	99.59	0.22	99.37	1.00	0.982	1.019
0.09	0.00	0.53	99.59	0.22	99.37	1.00	0.981	1.019
0.43	0.07	0.45	99.14	0.19	98.95	1.00	0.988	1.017
0.43	0.07	0.45	99.14	0.19	98.95	1.00	0.987	1.017
0.63	0.14	0.31	99.02	0.13	98.89	1.00	0.992	1.016
0.23	0.00	0.53	99.69	0.22	99.47	1.00	0.983	1.018
0.00	0.00	0.50	99.65	0.21	99.45	1.00	0.982	1.020
0.00	0.00	0.50	99.65	0.21	99.45	1.00	0.982	1.020
0.36	0.11	0.52	98.84	0.22	98.62	1.00	0.990	1.014
0.36	0.11	0.52	98.84	0.22	98.62	1.00	0.989	1.013
0.71	0.13	0.47	98.64	0.20	98.45	1.00	0.988	1.015
0.16	0.04	0.72	100.09	0.30	99.79	1.00	0.983	1.018
0.11	0.00	0.44	99.81	0.19	99.62	1.00	0.989	1.014
0.11	0.00	0.44	99.81	0.19	99.62	1.00	0.990	1.015
0.10	0.00	0.65	100.51	0.27	100.23	1.00	0.982	1.019
0.10	0.00	0.65	100.51	0.27	100.23	1.00	0.983	1.019
0.30	0.00	0.49	100.06	0.21	99.86	1.00	0.987	1.016
0.30	0.00	0.49	100.06	0.21	99.86	1.00	0.987	1.016
0.27	0.04	0.33	99.54	0.14	99.40	1.00	0.986	1.018
0.27	0.04	0.33	99.54	0.14	99.40	1.00	0.987	1.019
0.39	0.00	0.40	99.54	0.17	99.37	1.00	0.985	1.017
0.39	0.00	0.40	99.54	0.17	99.37	1.00	0.987	1.018

0.35	0.07	0.46	99.36	0.19	99.17	1.00	0.985	1.019
0.35	0.07	0.46	99.36	0.19	99.17	1.00	0.986	1.019
0.10	0.03	0.57	99.35	0.24	99.11	1.00	0.984	1.019
0.10	0.03	0.57	99.35	0.24	99.11	1.00	0.983	1.019
0.72	0.08	0.29	99.37	0.12	99.25	1.00	0.985	1.022
0.24	0.08	0.66	99.42	0.28	99.14	1.00	0.980	1.023
0.24	0.08	0.66	99.42	0.28	99.14	1.00	0.978	1.023
0.30	0.00	0.55	99.43	0.23	99.20	1.00	0.986	1.016
0.53	0.15	0.49	99.01	0.21	98.80	1.00	0.983	1.019
0.02	0.00	0.42	99.91	0.18	99.73	1.00	0.981	1.021
0.02	0.00	0.42	99.91	0.18	99.73	1.00	0.982	1.021
0.19	0.08	0.58	100.22	0.24	99.98	1.00	0.981	1.021
0.23	0.06	0.51	99.76	0.21	99.54	1.00	0.986	1.015
0.44	0.06	0.35	99.78	0.15	99.63	1.00	0.987	1.018
0.46	0.01	0.48	99.17	0.20	98.97	1.00	0.978	1.026
0.09	0.07	0.39	99.19	0.16	99.02	1.00	0.983	1.020
0.00	0.00	0.42	99.57	0.18	99.40	1.00	0.972	1.030
0.11	0.01	0.54	99.73	0.23	99.51	1.00	0.973	1.029
0.34	0.01	0.46	98.87	0.19	98.68	1.00	0.977	1.028
0.15	0.05	0.48	99.67	0.20	99.46	1.00	0.974	1.027
0.37	0.12	0.42	99.24	0.18	99.06	1.00	0.977	1.028
0.29	0.11	0.43	99.35	0.18	99.17	1.00	0.976	1.028
0.54	0.01	0.51	98.88	0.21	98.66	1.00	0.980	1.027
0.33	0.03	0.53	99.34	0.22	99.12	1.00	0.965	1.038
0.28	0.03	0.43	99.38	0.18	99.20	1.00	0.972	1.029
0.52	0.07	0.36	98.87	0.15	98.72	1.00	0.975	1.031
0.48	0.14	0.34	99.26	0.14	99.12	1.00	0.979	1.026
0.35	0.05	0.39	99.12	0.16	98.95	1.00	0.982	1.024
0.07	0.02	0.69	99.39	0.29	99.10	1.00	0.978	1.023
0.39	0.02	0.54	98.86	0.23	98.64	1.00	0.966	1.038
0.29	0.00	0.47	98.63	0.20	98.44	1.00	0.965	1.037
0.42	0.16	0.51	99.07	0.21	98.86	1.00	0.977	1.028
0.44	0.08	0.42	98.93	0.18	98.75	1.00	0.974	1.031
0.46	0.00	0.43	98.97	0.18	98.79	1.00	0.975	1.027
0.03	0.00	0.57	99.86	0.24	99.63	1.00	0.983	1.016
0.26	0.11	0.54	98.98	0.23	98.75	1.00	0.975	1.030
0.44	0.10	0.54	98.58	0.23	98.35	1.00	0.973	1.031
0.44	0.00	0.51	99.40	0.22	99.19	1.00	0.949	1.054
0.60	0.18	0.39	99.78	0.17	99.62	1.00	0.972	1.036
0.28	0.11	0.61	99.41	0.26	99.16	1.00	0.971	1.033
0.19	0.06	0.47	99.58	0.20	99.39	1.00	0.978	1.025
0.23	0.10	0.75	100.13	0.31	99.81	1.00	0.973	1.030
0.52	0.06	0.45	98.64	0.19	98.45	1.00	0.976	1.029
0.15	0.00	0.46	99.58	0.19	99.39	1.00	0.979	1.025
0.13	0.01	0.52	99.95	0.22	99.73	1.00	0.973	1.029
0.35	0.04	0.36	99.33	0.15	99.18	1.00	0.977	1.029
0.24	0.04	0.43	99.19	0.18	99.01	1.00	0.973	1.030
0.39	0.00	0.46	98.79	0.19	98.60	1.00	0.971	1.032

0.00	0.00	0.91	98.40	0.38	98.01	1.00	0.990	1.012
0.16	0.05	0.66	98.39	0.28	98.11	1.00	0.988	1.015
0.06	0.07	0.59	98.01	0.25	97.77	1.00	0.992	1.012
0.18	0.00	0.53	97.63	0.22	97.41	1.00	0.992	1.011
0.14	0.07	0.56	98.04	0.24	97.80	1.00	0.990	1.015
0.40	0.04	0.35	97.37	0.15	97.22	1.00	0.997	1.010
0.32	0.00	0.51	97.54	0.22	97.32	1.00	0.994	1.010
0.47	0.07	0.46	97.54	0.19	97.34	1.00	1.004	1.002
0.39	0.07	0.35	96.89	0.15	96.74	1.00	1.000	1.007
0.56	0.00	0.35	97.64	0.15	97.49	1.00	0.995	1.011
0.60	0.12	0.33	97.27	0.14	97.13	1.00	1.002	1.007
0.35	0.00	0.56	97.20	0.23	96.96	1.00	0.995	1.010
0.21	0.00	0.41	97.81	0.17	97.63	1.00	0.998	1.008
0.30	0.11	0.48	98.17	0.20	97.96	1.00	0.994	1.011
0.60	0.10	0.29	96.65	0.12	96.53	1.00	1.002	1.007
0.46	0.06	0.37	98.00	0.16	97.84	1.00	1.000	1.007
0.56	0.05	0.34	96.63	0.14	96.48	1.00	1.001	1.007
0.74	0.00	0.29	96.88	0.12	96.76	1.00	1.006	1.006
0.40	0.15	0.48	97.76	0.20	97.56	1.00	0.987	1.018
0.00	0.00	0.72	98.17	0.30	97.86	1.00	0.990	1.011
0.14	0.00	0.85	98.31	0.36	97.96	1.00	0.987	1.014
0.15	0.00	0.41	97.64	0.17	97.47	1.00	0.993	1.015
0.04	0.03	0.74	98.35	0.31	98.04	1.00	0.989	1.014
0.20	0.00	0.34	96.93	0.14	96.78	1.00	0.999	1.006
0.10	0.00	0.50	98.17	0.21	97.96	1.00	0.989	1.013
0.45	0.01	0.34	96.75	0.14	96.60	1.00	0.994	1.015
1.17	0.36	0.35	96.29	0.15	96.14	1.00	0.999	1.010
0.69	0.04	0.31	97.27	0.13	97.14	1.00	0.991	1.016
0.22	0.00	0.41	97.39	0.17	97.21	1.00	0.996	1.008
0.04	0.05	0.91	98.32	0.38	97.93	1.00	0.988	1.014
0.33	0.02	0.51	97.66	0.21	97.44	1.00	0.992	1.014
0.26	0.14	0.35	97.81	0.15	97.66	1.01	0.998	0.999
0.18	0.00	0.49	98.04	0.21	97.83	1.01	1.002	0.992
0.20	0.02	0.58	98.43	0.24	98.18	1.01	0.998	0.999
0.37	0.00	0.39	97.73	0.16	97.56	1.00	1.005	0.999
0.32	0.07	0.29	97.22	0.12	97.10	1.00	1.010	0.995
0.46	0.17	0.27	97.35	0.11	97.23	1.00	1.005	1.000
0.34	0.05	0.34	97.10	0.14	96.96	1.00	1.008	1.002
0.39	0.14	0.32	98.19	0.13	98.06	1.00	1.002	1.003
0.25	0.03	0.52	98.28	0.22	98.05	1.00	0.993	1.010
0.15	0.06	0.64	97.96	0.27	97.69	1.00	0.996	1.007
0.23	0.00	0.43	98.10	0.18	97.92	1.00	0.999	1.005
0.40	0.12	0.41	97.99	0.17	97.82	1.00	1.001	1.003
0.20	0.16	0.36	97.88	0.15	97.73	1.00	1.006	1.003
0.11	0.00	0.50	96.82	0.21	96.61	1.00	0.999	1.006
0.16	0.08	0.29	97.50	0.12	97.38	1.00	1.002	1.003
0.19	0.05	0.52	98.68	0.22	98.46	1.00	0.994	1.010
0.30	0.03	0.37	97.62	0.15	97.46	1.00	1.001	1.008

0.16	0.00	0.54	97.89	0.23	97.66	1.00	0.988	1.016
0.32	0.17	0.49	98.19	0.21	97.98	1.00	0.991	1.013
0.03	0.14	0.45	98.05	0.19	97.86	1.00	1.002	1.001
0.18	0.00	0.40	98.28	0.17	98.12	1.00	1.001	1.001
0.16	0.00	0.44	97.68	0.18	97.50	1.00	1.001	1.003
0.20	0.00	0.52	98.29	0.22	98.08	1.00	0.992	1.010
0.00	0.00	0.59	98.33	0.25	98.08	1.00	1.005	0.999
0.31	0.06	0.38	97.08	0.16	96.91	1.00	1.001	1.009
0.55	0.03	0.49	97.52	0.21	97.31	1.00	0.993	1.013
0.19	0.15	0.52	97.72	0.22	97.50	1.00	0.994	1.012
0.50	0.04	0.29	97.52	0.12	97.40	1.00	0.996	1.012
0.24	0.06	0.54	98.28	0.23	98.05	1.00	0.999	1.006
0.00	0.14	0.69	98.81	0.29	98.52	1.00	0.994	1.006
0.41	0.08	0.32	97.81	0.13	97.68	1.00	1.009	0.999
0.34	0.06	0.49	98.04	0.21	97.83	1.00	1.004	1.000
0.11	0.00	0.57	98.27	0.24	98.03	1.00	0.999	1.004
0.00	0.05	0.62	98.81	0.26	98.55	1.00	0.998	1.002
0.03	0.00	0.52	99.12	0.22	98.90	1.00	1.000	1.003
0.10	0.06	0.67	98.58	0.28	98.30	1.00	0.995	1.009
0.00	0.00	0.83	99.75	0.35	99.40	1.01	0.997	0.999
0.17	0.04	0.55	99.22	0.23	98.99	1.00	1.004	1.001
0.46	0.00	0.36	98.30	0.15	98.15	1.00	1.004	1.002
0.47	0.04	0.34	97.45	0.14	97.31	1.00	1.006	1.002
0.19	0.09	0.58	96.01	0.24	95.77	1.00	1.211	0.793
0.73	0.13	0.33	97.89	0.14	97.75	1.00	1.008	0.998
0.00	0.00	0.46	99.79	0.19	99.60	1.00	1.006	0.996
0.42	0.12	0.36	98.64	0.15	98.49	1.00	1.007	0.997
0.25	0.06	0.37	98.01	0.16	97.85	1.00	1.010	0.994
0.15	0.12	0.37	98.61	0.16	98.46	1.00	1.002	1.001
0.36	0.00	0.41	98.33	0.17	98.16	1.00	1.012	0.993
0.37	0.05	0.32	98.21	0.14	98.08	1.00	1.023	0.983
0.42	0.20	0.49	98.48	0.21	98.27	1.00	1.005	1.000
0.40	0.01	0.51	98.13	0.22	97.92	1.00	1.013	0.992
0.29	0.03	0.40	99.13	0.17	98.96	1.00	1.006	0.998
0.44	0.02	0.36	98.00	0.15	97.85	1.00	1.005	1.001
0.10	0.04	0.43	98.97	0.18	98.79	1.00	1.001	1.002
0.24	0.13	0.50	98.30	0.21	98.09	1.00	1.005	0.999
0.78	0.13	0.33	98.03	0.14	97.89	1.00	1.014	0.993
0.13	0.07	0.36	99.15	0.15	99.00	1.00	1.005	0.997
0.70	0.05	0.31	97.72	0.13	97.59	1.00	1.013	0.994
0.33	0.15	0.52	98.43	0.22	98.21	1.01	1.009	0.989
0.08	0.09	0.63	99.09	0.27	98.82	1.00	0.998	1.001
0.38	0.14	0.55	98.64	0.23	98.41	1.01	1.007	0.988
0.23	0.03	0.40	98.13	0.17	97.96	1.00	1.004	0.999
0.21	0.00	0.37	97.96	0.15	97.80	1.01	0.998	1.004
0.34	0.05	0.37	98.84	0.16	98.68	1.00	0.999	1.003
0.04	0.01	0.48	98.68	0.20	98.48	1.00	0.999	1.007
0.23	0.12	0.39	97.92	0.17	97.75	1.00	1.005	0.999

0.03	0.00	0.40	97.96	0.17	97.79	1.00	0.999	1.004
0.41	0.18	0.37	97.86	0.16	97.70	1.00	0.998	1.009
0.05	0.05	0.46	98.75	0.19	98.55	1.01	0.996	1.005
0.03	0.00	0.47	97.81	0.20	97.61	1.00	0.997	1.009
0.23	0.09	0.42	98.41	0.18	98.23	1.00	1.001	1.005
0.34	0.04	0.35	97.95	0.15	97.80	1.00	1.006	1.002
0.07	0.00	0.50	99.19	0.21	98.98	1.01	0.995	1.001
0.30	0.14	0.33	98.08	0.14	97.94	1.00	1.006	0.997
0.44	0.10	0.34	98.20	0.14	98.06	1.00	1.011	0.995
0.17	0.00	0.44	99.52	0.18	99.34	1.00	1.016	0.985
0.48	0.00	0.36	98.06	0.15	97.91	1.00	1.008	0.999
0.20	0.04	0.49	98.14	0.21	97.93	1.00	1.005	0.998
0.28	0.12	0.57	99.05	0.24	98.81	1.00	1.004	1.000
0.42	0.04	0.40	98.54	0.17	98.38	1.00	1.013	0.991
0.57	0.11	0.35	98.32	0.15	98.17	1.00	1.015	0.993
0.33	0.02	0.34	98.53	0.14	98.38	1.00	1.008	0.996
0.61	0.00	0.34	97.92	0.14	97.77	1.00	1.017	0.991
0.39	0.00	0.44	98.30	0.19	98.12	1.00	1.008	0.998
0.32	0.00	0.40	98.62	0.17	98.45	1.00	1.002	1.002
0.21	0.07	0.51	98.34	0.22	98.12	1.00	1.006	0.998
0.22	0.00	0.49	98.45	0.21	98.25	1.00	1.002	1.004
0.23	0.00	0.61	98.73	0.26	98.47	1.00	0.998	1.007
0.28	0.00	0.45	98.04	0.19	97.85	1.00	1.011	0.991
0.43	0.07	0.32	97.61	0.14	97.47	1.00	1.021	0.986
0.34	0.00	0.47	99.02	0.20	98.82	1.00	1.012	0.991
0.18	0.00	0.43	98.53	0.18	98.35	1.00	1.004	1.000
0.20	0.09	0.48	98.59	0.20	98.39	1.00	1.012	0.992
0.20	0.02	0.52	99.39	0.22	99.17	1.00	1.008	0.995
0.63	0.13	0.31	97.25	0.13	97.12	1.00	1.018	0.992
0.24	0.03	0.51	99.22	0.22	99.00	1.00	1.007	1.000
0.15	0.00	0.57	99.34	0.24	99.10	1.00	1.008	0.997
0.86	0.00	0.26	97.36	0.11	97.25	1.00	1.016	0.991
0.55	0.14	0.43	97.90	0.18	97.72	1.00	1.003	1.001
0.17	0.00	0.41	98.31	0.17	98.14	1.00	1.004	1.003
0.07	0.00	0.65	98.70	0.27	98.42	1.00	0.998	1.005
0.18	0.09	0.41	98.15	0.17	97.97	1.00	1.002	1.004
0.37	0.05	0.40	98.58	0.17	98.41	1.00	1.001	1.005
0.75	0.10	0.37	97.35	0.15	97.20	1.00	1.005	1.000
0.48	0.16	0.47	98.24	0.20	98.04	1.00	1.003	1.000
0.39	0.10	0.44	98.36	0.18	98.17	1.00	1.007	0.998
0.23	0.06	0.46	98.75	0.19	98.56	1.00	1.007	0.997
0.15	0.08	0.44	98.93	0.19	98.74	1.00	0.997	1.010
0.72	0.06	0.44	98.06	0.19	97.87	1.00	1.011	0.993
0.17	0.00	0.43	98.87	0.18	98.69	1.00	1.000	1.005
0.55	0.06	0.41	98.43	0.17	98.26	1.00	1.001	1.003
0.46	0.16	0.63	98.59	0.27	98.32	1.00	1.002	1.000
0.16	0.03	0.37	98.19	0.16	98.03	1.00	0.999	1.004
0.00	0.00	0.50	98.17	0.21	97.96	1.00	1.000	1.007

0.45	0.06	0.50	97.11	0.21	96.90	1.00	0.997	1.008
0.69	0.12	0.43	98.75	0.18	98.57	1.00	1.004	1.001
0.19	0.00	0.37	99.41	0.16	99.25	1.00	1.007	0.998
0.44	0.05	0.41	98.21	0.17	98.04	1.00	1.005	0.997
0.55	0.01	0.51	98.53	0.21	98.32	1.00	1.010	0.993
0.59	0.12	0.46	98.16	0.19	97.97	1.00	1.007	0.997
0.67	0.21	0.47	97.59	0.20	97.39	1.00	1.006	0.998
0.13	0.03	0.44	98.58	0.19	98.39	1.00	1.007	0.996
0.46	0.10	0.35	98.81	0.15	98.66	1.00	1.000	1.004
0.21	0.12	0.71	98.21	0.30	97.91	1.00	0.997	1.005
0.46	0.02	0.41	98.54	0.17	98.36	1.00	1.005	0.998
0.28	0.05	0.51	98.74	0.22	98.53	1.00	1.007	0.997
0.39	0.07	0.44	98.73	0.18	98.54	1.00	1.001	1.006
0.53	0.00	0.52	98.95	0.22	98.73	1.00	1.004	1.000
0.57	0.15	0.31	97.35	0.13	97.21	1.00	1.011	0.996
0.45	0.05	0.32	97.41	0.14	97.27	1.00	1.009	0.997
0.31	0.02	0.45	98.37	0.19	98.18	1.00	1.003	1.000
0.48	0.10	0.35	97.96	0.15	97.81	1.00	1.000	1.003
0.13	0.00	0.68	98.03	0.28	97.75	1.00	0.999	1.005
0.13	0.06	0.48	97.24	0.20	97.03	1.00	0.993	1.015
0.60	0.10	0.44	97.26	0.19	97.07	1.00	0.992	1.012
0.58	0.09	0.35	98.06	0.15	97.91	1.00	1.003	1.003
1.03	0.08	0.30	96.92	0.13	96.79	1.00	0.995	1.012
0.63	0.07	0.36	98.14	0.15	97.99	1.00	0.995	1.013
0.58	0.08	0.33	98.57	0.14	98.43	1.00	1.003	1.003
0.37	0.12	0.39	97.63	0.17	97.46	1.00	0.994	1.013
0.49	0.08	0.42	98.54	0.17	98.37	1.00	0.998	1.010
0.56	0.08	0.37	98.59	0.15	98.44	1.00	1.006	0.996
0.61	0.10	0.25	97.74	0.10	97.63	1.00	1.009	0.994
0.22	0.14	0.40	98.48	0.17	98.31	1.00	1.003	0.999
0.45	0.00	0.37	98.17	0.16	98.02	1.00	1.004	1.000
0.51	0.04	0.36	98.25	0.15	98.10	1.01	0.998	1.002
0.22	0.11	0.43	98.12	0.18	97.94	1.00	0.999	1.007
0.05	0.00	0.49	99.28	0.21	99.07	1.00	0.998	1.002
0.39	0.22	0.38	98.96	0.16	98.79	1.00	0.999	1.006
0.20	0.08	0.41	98.81	0.17	98.64	1.01	0.991	1.005
0.23	0.07	0.42	97.83	0.18	97.65	1.01	1.000	1.000
0.53	0.03	0.49	97.48	0.21	97.27	1.00	1.001	1.000
0.05	0.01	0.31	98.67	0.13	98.54	1.00	0.997	1.008
0.50	0.10	0.38	97.66	0.16	97.50	1.00	1.003	1.002
0.46	0.12	0.36	97.77	0.15	97.62	1.00	1.004	1.000
0.26	0.05	0.45	98.11	0.19	97.92	1.00	1.001	1.001
0.05	0.00	0.62	98.73	0.26	98.48	1.01	1.000	0.997
0.27	0.00	0.53	98.72	0.22	98.50	1.01	0.999	1.000
0.31	0.04	0.36	98.66	0.15	98.51	1.00	1.001	1.001
0.27	0.00	0.53	98.53	0.22	98.30	1.00	1.000	1.006
0.02	0.00	0.57	98.73	0.24	98.49	1.00	1.004	0.999
0.60	0.14	0.59	98.26	0.25	98.01	1.01	1.000	0.993

0.19	0.05	0.43	98.84	0.18	98.66	1.01	1.001	0.996
0.45	0.09	0.32	97.98	0.14	97.84	1.00	1.005	0.997
0.12	0.00	0.47	98.82	0.20	98.62	1.00	1.004	0.996
0.20	0.00	0.39	98.08	0.16	97.92	1.01	0.996	0.998
0.33	0.01	0.42	97.01	0.18	96.84	1.00	0.996	1.008
0.26	0.07	0.38	99.19	0.16	99.03	1.00	0.984	1.022
0.19	0.07	0.39	98.75	0.17	98.58	1.00	0.984	1.020
0.37	0.02	0.52	99.12	0.22	98.90	1.00	0.981	1.020
0.45	0.14	0.44	99.61	0.18	99.42	1.00	0.981	1.021
0.23	0.07	0.51	99.86	0.22	99.64	1.00	0.992	1.012
0.19	0.04	0.47	100.40	0.20	100.20	1.00	0.981	1.024
0.25	0.00	0.64	99.76	0.27	99.49	1.00	0.978	1.024
0.14	0.00	0.59	99.48	0.25	99.23	1.00	0.989	1.015
0.27	0.00	0.43	99.44	0.18	99.26	1.00	0.987	1.015
0.16	0.00	0.70	99.91	0.29	99.62	1.00	0.986	1.014
0.09	0.00	0.53	99.59	0.22	99.37	1.00	0.981	1.019
0.43	0.07	0.45	99.14	0.19	98.95	1.00	0.987	1.017
0.63	0.14	0.31	99.02	0.13	98.89	1.00	0.992	1.016
0.23	0.00	0.53	99.69	0.22	99.47	1.00	0.983	1.019
0.00	0.00	0.50	99.65	0.21	99.45	1.00	0.982	1.020
0.36	0.11	0.52	98.84	0.22	98.62	1.00	0.989	1.013
0.71	0.13	0.47	98.64	0.20	98.45	1.00	0.988	1.015
0.16	0.04	0.72	100.09	0.30	99.79	1.00	0.983	1.018
0.11	0.00	0.44	99.81	0.19	99.62	1.00	0.990	1.015
0.10	0.00	0.65	100.51	0.27	100.23	1.00	0.983	1.019
0.30	0.00	0.49	100.06	0.21	99.86	1.00	0.987	1.016
0.27	0.04	0.33	99.54	0.14	99.40	1.00	0.987	1.019
0.39	0.00	0.40	99.54	0.17	99.37	1.00	0.987	1.018
0.35	0.07	0.46	99.36	0.19	99.17	1.00	0.986	1.019
0.10	0.03	0.57	99.35	0.24	99.11	1.00	0.983	1.019
0.72	0.08	0.29	99.37	0.12	99.25	1.00	0.985	1.022
0.24	0.08	0.66	99.42	0.28	99.14	1.00	0.978	1.023
0.30	0.00	0.55	99.43	0.23	99.20	1.00	0.986	1.016
0.53	0.15	0.49	99.01	0.21	98.80	1.00	0.983	1.019
0.02	0.00	0.42	99.91	0.18	99.73	1.00	0.982	1.021
0.19	0.08	0.58	100.22	0.24	99.98	1.00	0.981	1.021
0.23	0.06	0.51	99.76	0.21	99.54	1.00	0.986	1.015
0.44	0.06	0.35	99.78	0.15	99.63	1.00	0.987	1.018
0.46	0.01	0.48	99.17	0.20	98.97	1.00	0.978	1.026
0.09	0.07	0.39	99.19	0.16	99.02	1.00	0.983	1.020
0.23	0.00	0.33	96.26	0.14	96.12	1.00	1.008	0.994
0.22	0.00	0.43	100.00	0.18	99.81	1.00	0.992	1.011
0.30	0.05	0.53	99.22	0.22	98.99	1.00	0.991	1.014
0.11	0.06	0.33	97.38	0.14	97.24	1.00	1.004	0.998
0.45	0.04	0.58	101.88	0.24	101.63	1.00	0.978	1.030
0.18	0.05	0.45	98.49	0.19	98.29	1.00	0.999	0.999
0.34	0.00	0.39	99.12	0.16	98.95	1.00	0.990	1.012
0.30	0.05	0.43	99.81	0.18	99.62	1.00	0.988	1.016

0.02	0.10	0.58	98.27	0.24	98.03	1.00	0.994	1.008
0.23	0.00	0.55	98.45	0.23	98.22	1.00	0.999	1.005
0.22	0.04	0.57	99.15	0.24	98.91	1.00	0.997	1.007
0.19	0.00	0.53	98.32	0.22	98.10	1.00	1.003	0.999
0.38	0.03	0.40	97.67	0.17	97.50	1.00	1.008	0.993
0.34	0.11	0.62	99.24	0.26	98.98	1.00	0.987	1.015
0.16	0.06	0.42	98.18	0.18	98.01	1.00	1.003	0.999
0.32	0.00	0.43	98.59	0.18	98.41	1.00	1.004	0.999
0.25	0.16	0.40	101.40	0.17	101.23	1.00	0.986	1.020
0.18	0.02	0.44	99.21	0.18	99.03	1.00	0.998	1.005
0.36	0.10	0.37	98.59	0.16	98.43	1.00	1.008	0.996
0.25	0.00	0.49	100.80	0.21	100.59	1.00	0.987	1.016
0.07	0.00	0.41	97.35	0.17	97.18	1.00	1.009	0.993
0.11	0.00	0.31	97.34	0.13	97.21	1.00	1.006	0.997
0.33	0.06	0.38	100.29	0.16	100.13	1.00	0.995	1.009
0.00	0.00	0.51	97.57	0.22	97.36	1.00	1.009	0.994
0.18	0.05	0.65	99.79	0.27	99.51	1.00	0.995	1.009
0.40	0.13	0.44	100.42	0.18	100.24	1.00	0.983	1.021
0.18	0.07	0.43	99.53	0.18	99.35	1.00	0.995	1.008
0.27	0.02	0.60	99.83	0.25	99.58	1.00	0.992	1.011
0.62	0.14	0.40	98.29	0.17	98.12	1.00	0.997	1.007
0.34	0.10	0.40	99.34	0.17	99.17	1.00	0.995	1.008
0.51	0.17	0.59	98.74	0.25	98.49	1.00	0.996	1.008
0.22	0.00	0.38	99.00	0.16	98.84	1.00	0.994	1.010
0.33	0.05	0.46	98.74	0.20	98.55	1.00	0.992	1.011
0.68	0.09	0.31	98.25	0.13	98.12	1.00	1.001	1.005
0.87	0.15	0.28	98.15	0.12	98.03	1.00	0.999	1.008
0.24	0.03	0.48	99.06	0.20	98.85	1.00	0.998	1.005
0.11	0.06	0.45	99.57	0.19	99.38	1.00	0.995	1.011
0.20	0.00	0.44	98.82	0.18	98.63	1.00	0.997	1.010
0.23	0.02	0.60	98.97	0.25	98.71	1.00	0.995	1.008
0.35	0.02	0.35	99.56	0.15	99.41	1.00	0.996	1.007
0.71	0.12	0.32	98.00	0.13	97.87	1.00	0.996	1.013
0.22	0.10	0.61	99.12	0.26	98.86	1.00	0.989	1.014
0.31	0.00	0.48	98.52	0.20	98.31	1.00	0.999	1.004
0.73	0.23	0.49	98.56	0.21	98.36	1.00	0.998	1.006
0.11	0.00	0.64	99.29	0.27	99.02	1.00	0.993	1.010
0.09	0.02	0.47	99.35	0.20	99.15	1.00	0.997	1.006
0.30	0.10	0.43	99.13	0.18	98.95	1.00	0.990	1.016
0.08	0.00	0.43	99.04	0.18	98.86	1.00	0.986	1.021
0.79	0.04	0.29	97.34	0.12	97.22	1.00	0.995	1.013
0.48	0.06	0.32	98.37	0.14	98.24	1.00	1.000	1.007
0.30	0.07	0.46	98.68	0.19	98.48	1.00	0.989	1.016
0.26	0.05	0.41	98.98	0.17	98.81	1.00	0.994	1.010
0.26	0.06	0.46	99.20	0.19	99.01	1.00	0.998	1.006
0.82	0.17	0.35	98.22	0.15	98.07	1.00	0.998	1.011
0.68	0.11	0.33	97.99	0.14	97.86	1.00	0.998	1.011
0.62	0.00	0.34	98.67	0.14	98.52	1.00	1.001	1.006

0.31	0.00	0.54	98.79	0.23	98.56	1.00	0.993	1.010
0.27	0.00	0.57	99.18	0.24	98.94	1.00	0.994	1.009
0.20	0.08	0.60	99.62	0.25	99.37	1.00	0.992	1.010
0.20	0.05	0.53	99.24	0.22	99.02	1.00	0.990	1.012
0.38	0.13	0.48	99.18	0.20	98.98	1.00	0.996	1.008
0.34	0.00	0.36	98.92	0.15	98.77	1.00	0.999	1.004
0.31	0.10	0.42	99.39	0.18	99.22	1.00	0.994	1.008
0.31	0.00	0.56	98.86	0.23	98.63	1.00	0.988	1.016
0.35	0.00	0.56	99.28	0.24	99.04	1.00	0.999	1.004
0.53	0.06	0.44	98.21	0.19	98.02	1.00	0.990	1.014
0.26	0.00	0.40	99.53	0.17	99.36	1.00	0.998	1.005
0.21	0.03	0.34	98.39	0.14	98.24	1.00	0.997	1.007
0.18	0.01	0.51	99.00	0.21	98.79	1.00	0.996	1.007
0.06	0.07	0.41	99.17	0.17	98.99	1.02	0.982	1.000
0.17	0.06	0.45	98.77	0.19	98.57	1.00	0.987	1.016
0.13	0.04	0.43	99.00	0.18	98.82	1.00	0.996	1.012
0.21	0.00	0.48	98.78	0.20	98.58	1.00	0.989	1.019
0.23	0.04	0.38	99.31	0.16	99.15	1.00	0.995	1.018
0.07	0.07	0.48	98.85	0.20	98.64	1.00	0.991	1.015
0.12	0.15	0.46	98.94	0.19	98.75	1.00	0.993	1.012
0.13	0.04	0.65	99.28	0.27	99.00	1.00	0.995	1.010
0.09	0.06	0.62	99.53	0.26	99.27	1.00	0.992	1.014
0.12	0.10	0.61	99.42	0.26	99.16	1.00	0.994	1.008
0.54	0.11	0.46	98.42	0.19	98.23	1.00	0.993	1.010
0.13	0.00	0.56	99.18	0.24	98.94	1.00	0.992	1.007
0.57	0.00	0.35	98.62	0.15	98.48	1.00	0.995	1.010
0.15	0.02	0.69	99.36	0.29	99.07	1.00	0.991	1.009
0.16	0.00	0.62	99.33	0.26	99.07	1.00	0.988	1.015
0.01	0.03	0.40	97.04	0.17	96.87	1.01	1.002	0.991
0.00	0.00	0.59	97.59	0.25	97.34	1.00	1.000	0.998
0.23	0.11	0.59	99.29	0.25	99.05	1.00	0.992	1.014
0.38	0.00	0.71	99.20	0.30	98.90	1.00	0.994	1.013
0.23	0.10	0.65	99.74	0.27	99.47	1.00	0.987	1.019
0.18	0.03	0.48	98.29	0.20	98.08	1.00	0.994	1.008
0.06	0.02	0.42	98.19	0.18	98.01	1.00	0.997	1.005
0.19	0.00	0.59	99.22	0.25	98.97	1.00	0.995	1.009
0.08	0.08	0.64	99.03	0.27	98.76	1.00	0.991	1.012
0.25	0.06	0.71	100.00	0.30	99.69	1.00	0.990	1.013
0.29	0.01	0.47	98.93	0.20	98.73	1.00	0.996	1.006
0.11	0.10	0.48	98.11	0.20	97.91	1.00	0.997	1.001
0.10	0.00	0.38	97.73	0.16	97.57	1.00	1.002	1.000
0.20	0.03	0.53	98.94	0.22	98.72	1.00	0.996	1.006
0.44	0.01	0.51	99.49	0.21	99.28	1.00	0.991	1.013
0.29	0.00	0.67	99.40	0.28	99.12	1.00	0.992	1.013
0.15	0.03	0.76	100.08	0.32	99.76	1.00	0.987	1.016
0.13	0.05	0.60	99.20	0.25	98.94	1.00	0.996	1.005
0.32	0.10	0.39	98.17	0.17	98.00	1.00	0.997	1.006
0.19	0.07	0.65	98.71	0.27	98.44	1.00	0.989	1.012

0.16	0.00	0.54	99.72	0.23	99.49	1.00	0.992	1.010
0.15	0.08	0.46	99.55	0.19	99.35	1.00	0.996	1.004
0.40	0.05	0.72	100.31	0.30	100.01	1.00	0.985	1.019
0.00	0.12	0.45	98.69	0.19	98.50	1.00	0.996	1.005
0.10	0.01	0.58	99.34	0.24	99.09	1.00	0.993	1.010
0.19	0.09	0.55	99.06	0.23	98.83	1.00	0.996	1.008
0.13	0.00	0.66	99.15	0.28	98.87	1.00	0.996	1.006
0.15	0.04	0.35	99.35	0.15	99.20	1.00	0.993	1.012
0.13	0.04	0.45	97.85	0.19	97.66	1.00	1.000	1.002
0.28	0.00	0.47	98.92	0.20	98.72	1.00	0.998	1.005
0.05	0.00	0.39	98.92	0.17	98.76	1.00	0.995	1.007
0.21	0.03	0.45	98.67	0.19	98.48	1.01	0.996	1.002
0.21	0.01	0.70	99.40	0.29	99.11	1.00	0.994	1.011
0.00	0.00	0.68	98.15	0.29	97.86	1.00	0.988	1.014
0.31	0.05	0.51	98.19	0.22	97.97	1.00	0.991	1.013
1.09	0.09	0.45	96.95	0.19	96.76	1.00	0.996	1.010
1.05	0.16	0.40	97.00	0.17	96.83	1.00	1.004	1.007
0.27	0.00	0.49	98.15	0.21	97.95	1.00	0.996	1.009
0.53	0.12	0.46	98.46	0.19	98.26	1.00	0.996	1.009
0.48	0.15	0.41	97.28	0.17	97.11	1.00	0.994	1.011
0.26	0.01	0.48	98.37	0.20	98.16	1.00	0.992	1.015
0.27	0.06	0.38	97.95	0.16	97.78	1.00	0.998	1.007
0.31	0.07	0.47	98.42	0.20	98.23	1.00	0.999	1.007
0.31	0.13	0.48	98.29	0.20	98.09	1.00	0.994	1.011
0.22	0.04	0.62	98.41	0.26	98.15	1.00	0.988	1.016
0.31	0.03	0.57	98.28	0.24	98.04	1.00	0.990	1.015
0.18	0.08	0.55	98.27	0.23	98.04	1.00	0.987	1.017
0.31	0.01	0.66	97.98	0.28	97.71	1.00	0.994	1.012
0.28	0.04	0.38	97.78	0.16	97.62	1.00	1.001	1.006
0.15	0.01	0.51	98.27	0.22	98.05	1.00	0.982	1.019
0.20	0.07	0.54	98.42	0.23	98.19	1.00	0.993	1.010
0.36	0.00	0.31	97.44	0.13	97.31	1.00	1.000	1.007
0.23	0.00	0.60	98.08	0.25	97.83	1.00	0.997	1.006
0.39	0.00	0.41	98.34	0.17	98.17	1.00	0.989	1.015
0.12	0.08	0.49	98.67	0.21	98.47	1.00	0.991	1.011
0.50	0.00	0.31	97.29	0.13	97.16	1.00	0.995	1.014
0.19	0.05	0.42	98.19	0.18	98.01	1.00	0.993	1.012
0.88	0.15	0.33	96.40	0.14	96.26	1.00	0.996	1.018
0.22	0.00	0.56	98.50	0.24	98.26	1.00	0.986	1.017
0.22	0.01	0.37	97.29	0.15	97.13	1.00	0.995	1.010
0.39	0.15	0.49	98.51	0.21	98.30	1.00	0.993	1.015
0.20	0.27	0.56	98.80	0.24	98.56	1.00	0.992	1.014
0.00	0.01	0.55	98.37	0.23	98.14	1.00	0.988	1.014
0.82	0.16	0.43	97.61	0.18	97.43	1.00	0.995	1.005
0.95	0.08	0.47	98.02	0.20	97.82	1.00	0.991	1.014
0.46	0.02	0.51	99.02	0.22	98.81	1.00	0.994	1.008
0.36	0.00	0.48	98.93	0.20	98.73	1.00	0.995	1.010
0.35	0.05	0.44	99.07	0.19	98.88	1.00	0.990	1.015

0.45	0.11	0.41	98.96	0.17	98.78	1.00	0.990	1.014
0.50	0.11	0.40	98.69	0.17	98.52	1.00	0.997	1.007
0.24	0.02	0.50	98.63	0.21	98.42	1.00	0.990	1.015
0.20	0.15	0.61	97.96	0.26	97.71	1.00	0.998	1.006
0.84	0.10	0.44	97.08	0.18	96.90	1.00	1.029	0.978
1.03	0.37	0.33	96.87	0.14	96.73	1.05	0.983	0.984
1.46	0.26	0.45	96.31	0.19	96.12	1.00	0.997	1.010
0.83	0.00	0.51	97.71	0.21	97.50	1.00	0.991	1.014
0.42	0.04	0.44	97.50	0.19	97.32	1.00	0.995	1.012
0.45	0.04	0.53	97.82	0.22	97.59	1.00	0.999	1.006
0.02	0.00	0.66	97.88	0.28	97.61	1.00	0.997	1.005
0.35	0.01	0.76	98.71	0.32	98.39	1.00	0.988	1.015
0.33	0.04	0.54	98.48	0.23	98.25	1.00	1.012	0.995
0.10	0.00	0.46	99.72	0.19	99.52	1.00	0.993	1.009
0.23	0.14	0.46	98.24	0.20	98.04	1.00	1.001	1.007
0.46	0.08	0.44	98.36	0.19	98.17	1.00	0.996	1.010
0.27	0.08	0.40	98.47	0.17	98.30	1.00	0.996	1.008
0.37	0.00	0.48	98.65	0.20	98.44	1.00	0.991	1.014
0.48	0.16	0.44	97.51	0.19	97.32	1.00	0.990	1.014
0.37	0.03	0.30	97.13	0.13	97.00	1.00	0.990	1.017
0.24	0.17	0.39	97.15	0.16	96.99	1.00	0.992	1.013
0.14	0.00	0.73	97.75	0.31	97.44	1.00	0.994	1.007
0.32	0.00	0.66	98.56	0.28	98.28	1.00	0.985	1.019
0.24	0.00	0.53	96.38	0.22	96.16	1.00	0.918	1.087
0.38	0.09	0.40	98.63	0.17	98.46	1.00	0.998	1.008
0.08	0.06	0.46	98.42	0.20	98.22	1.00	0.993	1.013
0.25	0.08	0.57	98.35	0.24	98.11	1.00	0.995	1.007
0.28	0.03	0.44	98.89	0.19	98.70	1.00	0.994	1.011
0.17	0.00	0.58	98.36	0.25	98.12	1.00	0.995	1.007
0.32	0.19	0.43	98.73	0.18	98.54	1.00	0.994	1.011
0.18	0.00	0.52	98.63	0.22	98.41	1.00	0.995	1.009
0.40	0.00	0.62	98.57	0.26	98.31	1.00	1.000	1.003
0.25	0.05	0.60	98.76	0.25	98.51	1.00	0.995	1.007
0.23	0.03	0.56	98.97	0.23	98.73	1.00	0.990	1.012
0.26	0.09	0.60	98.75	0.25	98.50	1.00	0.993	1.011
0.04	0.00	0.64	98.77	0.27	98.50	1.00	0.993	1.008
0.62	0.03	0.50	98.34	0.21	98.13	1.00	0.997	1.007
0.23	0.08	0.45	98.81	0.19	98.62	1.00	0.992	1.013
0.49	0.06	0.36	97.91	0.15	97.75	1.00	0.997	1.007
0.24	0.02	0.40	98.87	0.17	98.70	1.00	0.997	1.007
0.12	0.00	0.53	98.74	0.22	98.51	1.00	0.996	1.007
0.40	0.06	0.43	97.64	0.18	97.46	1.00	0.993	1.013
0.49	0.13	0.34	98.55	0.14	98.41	1.00	0.998	1.006
0.04	0.00	0.40	97.71	0.17	97.54	1.00	1.001	1.017
0.20	0.01	0.50	98.88	0.21	98.67	1.00	0.999	1.010
0.22	0.07	0.56	98.31	0.24	98.07	1.00	0.996	1.011
0.34	0.08	0.38	97.32	0.16	97.16	1.00	1.003	1.004
0.54	0.08	0.36	97.88	0.15	97.73	1.00	0.995	1.011

0.35	0.05	0.32	97.45	0.14	97.31	1.00	0.999	1.007
0.39	0.02	0.46	97.91	0.19	97.72	1.00	0.997	1.008
0.26	0.01	0.57	98.24	0.24	98.00	1.00	0.995	1.008
1.03	0.12	0.38	96.26	0.16	96.10	1.00	1.006	1.001
0.26	0.01	0.45	97.13	0.19	96.94	1.00	0.987	1.027
0.17	0.00	0.62	97.72	0.26	97.46	1.00	0.989	1.015
0.10	0.06	0.85	98.48	0.36	98.12	1.00	0.991	1.009
0.20	0.07	0.59	98.35	0.25	98.10	1.00	0.989	1.019
0.17	0.00	0.88	98.39	0.37	98.02	1.00	0.986	1.015
0.49	0.14	0.41	98.25	0.17	98.08	1.00	0.991	1.014
0.18	0.00	0.57	98.93	0.24	98.69	1.00	0.992	1.014
0.28	0.09	0.60	98.44	0.25	98.19	1.00	0.998	1.004
0.17	0.00	0.61	98.14	0.26	97.88	1.01	0.992	1.006
0.60	0.17	0.32	97.74	0.13	97.61	1.00	0.994	1.013
0.52	0.12	0.30	97.31	0.13	97.19	1.00	0.997	1.012
0.38	0.10	0.44	98.49	0.18	98.30	1.00	0.993	1.014
0.72	0.00	0.30	97.62	0.13	97.50	1.00	0.997	1.011
0.56	0.01	0.28	97.24	0.12	97.13	1.01	0.997	1.001
0.71	0.03	0.41	97.18	0.17	97.01	1.00	1.000	1.006
0.36	0.13	0.54	97.50	0.23	97.27	1.00	0.997	1.007
0.33	0.11	0.43	98.16	0.18	97.98	1.00	0.998	1.007
0.31	0.11	0.42	98.14	0.18	97.96	1.00	0.990	1.015
0.50	0.04	0.42	97.69	0.18	97.51	1.00	0.996	1.010
0.23	0.03	0.55	98.51	0.23	98.28	1.00	0.989	1.014
0.42	0.04	0.42	98.28	0.18	98.10	1.00	0.996	1.011
0.38	0.16	0.46	98.80	0.19	98.61	1.00	0.987	1.022
0.11	0.00	0.37	97.07	0.15	96.91	1.00	0.993	1.067
0.17	0.03	0.68	98.63	0.29	98.34	1.00	0.991	1.013
0.21	0.00	0.66	98.46	0.28	98.19	1.00	0.992	1.010
0.13	0.04	0.63	98.78	0.27	98.51	1.00	0.986	1.015
0.02	0.00	0.74	98.59	0.31	98.28	1.00	0.989	1.013
0.08	0.03	0.47	97.27	0.20	97.07	1.00	0.996	1.043
0.00	0.09	0.57	98.32	0.24	98.08	1.00	0.990	1.014
0.18	0.06	0.63	98.40	0.26	98.14	1.00	0.994	1.010
0.31	0.03	0.52	98.70	0.22	98.48	1.00	0.998	1.003
0.54	0.12	0.46	98.63	0.19	98.44	1.00	0.996	1.007
0.23	0.13	0.53	98.23	0.22	98.01	1.00	0.996	1.008
0.35	0.15	0.50	98.64	0.21	98.43	1.00	0.997	1.010
0.34	0.24	0.41	98.66	0.17	98.49	1.00	0.996	1.010
0.26	0.05	0.49	97.79	0.21	97.58	1.00	0.986	1.017
0.24	0.00	0.53	98.28	0.22	98.06	1.00	0.993	1.008
0.86	0.12	0.36	97.32	0.15	97.17	1.00	1.003	1.011
0.32	0.13	0.58	98.35	0.25	98.11	1.00	1.002	0.999
0.20	0.02	0.41	98.19	0.17	98.02	1.00	0.997	1.007
0.31	0.10	0.56	98.37	0.24	98.13	1.01	0.987	1.004
0.51	0.02	0.49	98.12	0.21	97.91	1.01	0.998	1.001
0.51	0.09	0.34	97.58	0.14	97.44	1.00	1.005	1.008
0.25	0.07	0.50	98.40	0.21	98.19	1.00	1.000	1.004

0.20	0.10	0.41	98.49	0.17	98.31	1.01	0.997	1.004
0.25	0.10	0.64	97.72	0.27	97.45	1.01	0.992	1.005
0.49	0.05	0.54	97.85	0.23	97.62	1.00	0.994	1.009
0.36	0.02	0.44	97.06	0.19	96.87	1.01	0.992	1.007
0.34	0.15	0.62	97.99	0.26	97.73	1.00	0.993	1.013
0.49	0.07	0.47	97.36	0.20	97.16	1.00	0.996	1.008
0.36	0.08	0.38	97.55	0.16	97.39	1.00	0.994	1.011
0.47	0.08	0.36	97.56	0.15	97.41	1.00	0.991	1.013
0.56	0.04	0.38	97.49	0.16	97.33	1.00	0.999	1.006
0.47	0.02	0.43	97.76	0.18	97.58	1.00	0.993	1.013
0.44	0.01	0.50	97.60	0.21	97.39	1.00	0.996	1.008
0.69	0.00	0.53	97.80	0.22	97.58	1.00	0.996	1.007
0.36	0.00	0.61	97.21	0.26	96.95	1.00	0.996	1.006
0.43	0.04	0.53	98.00	0.22	97.78	1.00	0.993	1.010
0.35	0.12	0.47	98.15	0.20	97.95	1.00	0.989	1.016
0.44	0.07	0.50	97.97	0.21	97.76	1.00	0.993	1.011
0.22	0.00	0.50	98.11	0.21	97.90	1.00	0.991	1.014
0.52	0.05	0.50	98.06	0.21	97.85	1.01	0.993	1.006
0.13	0.14	0.61	97.96	0.26	97.70	1.00	0.995	1.008
0.48	0.00	0.35	97.36	0.15	97.22	1.00	0.996	1.012
0.13	0.01	0.75	98.23	0.32	97.91	1.00	0.985	1.015
0.00	0.03	0.76	98.50	0.32	98.18	1.00	0.990	1.010
0.41	0.01	0.44	97.82	0.19	97.64	1.00	1.000	1.010
0.69	0.07	0.39	98.43	0.16	98.27	1.00	0.998	1.011
0.17	0.18	0.52	99.38	0.22	99.16	1.00	0.992	1.014
0.33	0.04	0.37	99.06	0.16	98.90	1.00	0.993	1.012
0.06	0.00	0.65	99.91	0.27	99.63	1.00	0.991	1.009
0.11	0.01	0.77	99.68	0.33	99.35	1.00	0.987	1.015
0.28	0.01	0.46	98.63	0.19	98.43	1.00	0.998	1.005
0.25	0.05	0.65	99.02	0.27	98.75	1.00	0.993	1.012
0.36	0.06	0.42	98.83	0.18	98.65	1.01	0.993	1.007
0.25	0.04	0.40	98.13	0.17	97.96	1.00	1.002	1.003
0.51	0.11	0.56	98.15	0.23	97.91	1.01	0.993	1.006
0.53	0.03	0.39	97.55	0.16	97.39	1.00	1.001	1.002
0.32	0.00	0.38	97.64	0.16	97.47	1.00	0.999	1.007
0.00	0.00	0.55	98.06	0.23	97.83	1.00	0.997	1.005
0.31	0.08	0.51	98.45	0.21	98.24	1.00	0.994	1.011
0.39	0.06	0.54	98.42	0.23	98.19	1.00	0.998	1.006
0.50	0.04	0.43	96.72	0.18	96.53	1.00	1.001	1.006
0.43	0.05	0.52	98.21	0.22	98.00	1.00	0.999	1.003
0.17	0.06	0.44	97.66	0.19	97.48	1.00	1.003	1.005
0.46	0.08	0.41	98.15	0.17	97.98	1.00	1.003	1.002
0.12	0.00	0.62	98.84	0.26	98.58	1.00	0.999	1.002
0.40	0.06	0.40	98.30	0.17	98.13	1.00	0.998	1.007
0.26	0.13	0.41	98.22	0.17	98.05	1.00	1.000	1.005
0.29	0.00	0.36	97.63	0.15	97.48	1.00	0.996	1.009
0.24	0.09	0.53	98.04	0.22	97.82	1.00	1.001	1.005
0.46	0.11	0.44	98.30	0.18	98.12	1.00	0.995	1.012

0.39	0.04	0.49	98.20	0.21	98.00	1.00	0.997	1.006
0.13	0.02	0.57	98.54	0.24	98.30	1.00	0.994	1.008
0.13	0.00	0.63	98.33	0.26	98.06	1.00	0.995	1.006
0.25	0.00	0.50	97.76	0.21	97.55	1.00	0.996	1.010
0.13	0.00	0.52	98.20	0.22	97.97	1.00	0.998	1.005
0.10	0.00	0.59	98.41	0.25	98.16	1.00	0.993	1.007
0.08	0.00	0.74	98.45	0.31	98.14	1.00	0.997	1.003
0.11	0.00	0.62	98.58	0.26	98.32	1.00	0.991	1.009
0.58	0.10	0.52	98.18	0.22	97.96	1.00	1.001	1.004
0.32	0.13	0.63	98.26	0.27	98.00	1.00	1.000	1.005
0.28	0.05	0.38	98.36	0.16	98.20	1.00	1.003	1.000
0.46	0.05	0.55	97.94	0.23	97.71	1.00	1.007	0.996
0.05	0.04	0.66	98.54	0.28	98.26	1.00	0.994	1.008
0.36	0.02	0.64	98.32	0.27	98.05	1.00	0.990	1.012
0.45	0.10	0.43	98.36	0.18	98.18	1.00	0.997	1.008
0.00	0.03	0.58	98.28	0.25	98.03	1.00	0.996	1.004
0.43	0.00	0.39	97.97	0.17	97.81	1.00	1.003	1.004
0.08	0.00	0.55	98.59	0.23	98.36	1.00	0.994	1.007
0.13	0.04	0.50	99.31	0.21	99.09	1.00	0.991	1.011
0.00	0.00	0.57	99.36	0.24	99.12	1.00	0.995	1.007
0.49	0.14	0.39	98.14	0.16	97.97	1.00	0.992	1.015
0.20	0.00	0.55	98.52	0.23	98.29	1.00	0.991	1.013
0.09	0.03	0.42	99.57	0.18	99.39	1.00	0.992	1.010
0.32	0.05	0.43	98.40	0.18	98.22	1.00	1.000	1.004
0.03	0.09	0.41	99.62	0.17	99.45	1.00	0.988	1.016
0.27	0.01	0.43	98.21	0.18	98.03	1.00	0.997	1.008
0.17	0.06	0.47	98.96	0.20	98.76	1.00	0.999	1.005
0.00	0.08	0.65	99.10	0.27	98.82	1.00	0.989	1.014
0.36	0.11	0.42	98.18	0.18	98.01	1.00	0.993	1.011
0.09	0.00	0.50	98.96	0.21	98.75	1.00	0.992	1.010
0.43	0.06	0.51	98.38	0.22	98.16	1.00	0.993	1.010
0.39	0.00	0.74	98.36	0.31	98.05	1.00	0.988	1.013
0.47	0.00	0.37	98.29	0.15	98.14	1.00	0.996	1.010
0.24	0.00	0.49	99.01	0.21	98.81	1.00	0.997	1.005
0.35	0.07	0.38	98.34	0.16	98.18	1.00	0.996	1.009
0.21	0.00	0.47	99.08	0.20	98.88	1.00	1.003	1.002
0.06	0.03	0.46	98.12	0.19	97.92	1.00	0.996	1.009
0.19	0.02	0.72	98.41	0.30	98.10	1.00	0.994	1.008
0.05	0.01	0.42	98.48	0.18	98.30	1.00	0.986	1.018
0.00	0.01	0.63	99.09	0.26	98.83	1.00	0.996	1.006
0.52	0.04	0.38	98.32	0.16	98.16	1.00	0.992	1.017
0.00	0.00	0.65	98.60	0.27	98.32	1.00	0.994	1.007
0.18	0.00	0.52	98.82	0.22	98.60	1.00	0.997	1.006
0.37	0.11	0.39	98.49	0.17	98.32	1.00	0.992	1.015
0.01	0.13	0.55	99.27	0.23	99.04	1.00	0.989	1.014
0.33	0.14	0.46	99.24	0.19	99.05	1.00	0.998	1.006
0.21	0.15	0.55	98.32	0.23	98.09	1.00	1.000	1.005
0.33	0.00	0.58	98.83	0.24	98.59	1.00	1.007	0.995

0.24	0.00	0.59	98.87	0.25	98.62	1.00	0.998	1.005
0.09	0.00	0.48	99.25	0.20	99.04	1.00	0.990	1.013
0.00	0.00	0.54	99.36	0.23	99.13	1.00	0.996	1.007
0.34	0.00	0.47	98.66	0.20	98.46	1.00	0.997	1.008
0.08	0.00	0.54	99.87	0.23	99.64	1.00	0.998	1.005
0.08	0.01	0.72	99.19	0.30	98.89	1.00	0.993	1.013
0.51	0.08	0.53	98.39	0.22	98.17	1.00	0.991	1.016
0.45	0.06	0.56	98.29	0.24	98.06	1.00	0.999	1.004
0.44	0.16	0.36	97.70	0.15	97.55	1.00	0.996	1.012
0.46	0.00	0.48	98.15	0.20	97.95	1.00	0.992	1.013
0.27	0.07	0.58	98.40	0.24	98.16	1.00	0.994	1.010
0.59	0.01	0.41	97.68	0.17	97.50	1.00	0.996	1.017
0.39	0.00	0.35	98.11	0.15	97.96	1.00	0.991	1.015
0.33	0.08	0.53	98.43	0.22	98.21	1.00	1.004	1.002
0.26	0.03	0.56	98.15	0.23	97.91	1.00	0.994	1.014
0.00	0.05	0.68	99.35	0.28	99.07	1.00	0.993	1.008
0.36	0.05	0.60	98.03	0.25	97.77	1.00	0.995	1.011
0.08	0.11	0.37	98.53	0.16	98.38	1.00	0.990	1.013
0.14	0.00	0.46	99.02	0.19	98.83	1.00	0.995	1.009
0.45	0.04	0.49	98.04	0.21	97.83	1.00	0.995	1.009
0.00	0.00	0.42	99.57	0.18	99.40	1.00	0.974	1.030
0.11	0.01	0.54	99.73	0.23	99.51	1.00	0.973	1.029
0.34	0.01	0.46	98.87	0.19	98.68	1.00	0.976	1.028
0.15	0.05	0.48	99.67	0.20	99.46	1.00	0.975	1.028
0.37	0.12	0.42	99.24	0.18	99.06	1.00	0.977	1.028
0.29	0.11	0.43	99.35	0.18	99.17	1.00	0.977	1.028
0.54	0.01	0.51	98.88	0.21	98.66	1.00	0.978	1.026
0.33	0.03	0.53	99.34	0.22	99.12	1.00	0.980	1.040
0.28	0.03	0.43	99.38	0.18	99.20	1.00	0.974	1.029
0.52	0.07	0.36	98.87	0.15	98.72	1.00	0.974	1.031
0.48	0.14	0.34	99.26	0.14	99.12	1.00	0.980	1.026
0.35	0.05	0.39	99.12	0.16	98.95	1.00	0.982	1.024
0.07	0.02	0.69	99.39	0.29	99.10	1.00	0.980	1.024
0.39	0.02	0.54	98.86	0.23	98.64	1.00	0.976	1.040
0.29	0.00	0.47	98.63	0.20	98.44	1.00	0.981	1.040
0.42	0.16	0.51	99.07	0.21	98.86	1.00	0.977	1.028
0.44	0.08	0.42	98.93	0.18	98.75	1.00	0.975	1.032
0.46	0.00	0.43	98.97	0.18	98.79	1.00	0.977	1.028
0.03	0.00	0.57	99.86	0.24	99.63	1.00	0.985	1.016
0.26	0.11	0.54	98.98	0.23	98.75	1.00	0.976	1.030
0.44	0.10	0.54	98.58	0.23	98.35	1.00	0.974	1.030
0.44	0.00	0.51	99.40	0.22	99.19	1.00	0.977	1.059
0.60	0.18	0.39	99.78	0.17	99.62	1.00	0.972	1.036
0.28	0.11	0.61	99.41	0.26	99.16	1.00	0.972	1.033
0.19	0.06	0.47	99.58	0.20	99.39	1.00	0.979	1.025
0.23	0.10	0.75	100.13	0.31	99.81	1.00	0.973	1.031
0.52	0.06	0.45	98.64	0.19	98.45	1.00	0.976	1.029
0.15	0.00	0.46	99.58	0.19	99.39	1.00	0.980	1.026

0.13	0.01	0.52	99.95	0.22	99.73	1.00	0.973	1.029
0.35	0.04	0.36	99.33	0.15	99.18	1.00	0.977	1.029
0.24	0.04	0.43	99.19	0.18	99.01	1.00	0.975	1.031
0.39	0.00	0.46	98.79	0.19	98.60	1.00	0.977	1.033

0.42	0.16	0.48	98.52	0.20	98.32	1.00	0.996	1.013
0.47	0.15	0.51	98.72	0.22	98.50	1.00	0.993	1.013
0.48	0.15	0.54	98.93	0.23	98.70	1.01	0.989	1.013
0.47	0.12	0.52	98.82	0.22	98.60	1.00	0.989	1.018
0.50	0.06	0.52	98.45	0.22	98.23	1.00	0.983	1.026
0.53	0.13	0.51	98.93	0.22	98.71	1.00	0.992	1.014
0.37	0.05	0.64	99.03	0.27	98.76	1.00	0.994	1.010
0.36	0.11	0.63	99.03	0.26	98.76	1.00	0.991	1.014
0.29	0.04	0.64	98.78	0.27	98.51	1.00	0.993	1.011
0.39	0.04	0.65	98.91	0.27	98.63	1.00	0.994	1.010
0.44	0.16	0.59	99.65	0.25	99.40	1.00	0.985	1.019
0.40	0.13	0.60	99.31	0.25	99.06	1.00	0.991	1.015
0.33	0.13	0.64	99.21	0.27	98.94	1.00	0.990	1.015
0.32	0.18	0.63	99.23	0.26	98.96	1.00	0.991	1.015
0.31	0.12	0.66	99.60	0.28	99.32	1.00	0.993	1.012
0.44	0.13	0.58	98.56	0.24	98.32	1.00	0.991	1.014
0.51	0.10	0.60	98.42	0.25	98.17	1.00	0.991	1.019
0.39	0.11	0.67	98.57	0.28	98.29	1.00	0.992	1.019
0.46	0.08	0.69	97.63	0.29	97.34	1.01	0.969	1.033
0.50	0.15	0.66	98.68	0.28	98.40	1.00	0.996	1.014
0.49	0.14	0.74	99.22	0.31	98.90	1.00	0.995	1.019
0.71	0.25	0.62	98.83	0.26	98.57	1.00	0.998	1.021
0.75	0.23	0.52	98.37	0.22	98.15	1.00	1.001	1.021
0.71	0.18	0.60	98.34	0.25	98.09	1.00	0.991	1.027
0.75	0.30	0.61	98.42	0.26	98.17	1.00	0.993	1.025
0.60	0.17	0.58	97.71	0.24	97.46	1.00	0.997	1.017
0.75	0.24	0.51	98.03	0.22	97.81	1.00	0.996	1.017
0.26	0.08	0.63	98.78	0.27	98.52	1.00	0.992	1.013
0.03	0.00	0.71	98.93	0.30	98.63	1.00	1.005	0.995
0.99	0.48	0.60	98.14	0.25	97.89	1.00	0.997	1.015
1.27	0.48	0.46	97.42	0.19	97.22	1.00	0.993	1.016
1.16	0.60	0.44	97.15	0.19	96.97	1.00	1.006	1.010
0.70	0.25	0.57	97.64	0.24	97.40	1.00	1.004	1.022
0.47	0.10	0.61	97.77	0.26	97.51	1.00	0.993	1.008
0.46	0.10	0.53	98.15	0.22	97.92	1.00	0.998	1.008
0.43	0.12	0.45	98.58	0.19	98.39	1.00	0.999	1.010
0.46	0.17	0.50	98.59	0.21	98.37	1.00	0.994	1.011
0.42	0.10	0.48	98.92	0.20	98.72	1.00	1.000	1.003
0.47	0.14	0.47	98.31	0.20	98.11	1.00	0.995	1.009
0.44	0.16	0.50	99.12	0.21	98.91	1.00	0.999	1.007
0.46	0.06	0.50	98.49	0.21	98.28	1.01	0.987	1.012
0.15	0.05	0.48	98.09	0.20	97.89	1.00	0.993	1.010

0.35	0.11	0.53	98.64	0.22	98.42	1.00	1.000	1.005
0.36	0.17	0.53	98.38	0.22	98.16	1.01	0.997	1.000
0.31	0.07	0.54	98.10	0.23	97.87	1.01	0.995	1.001
0.36	0.09	0.52	98.73	0.22	98.51	1.01	0.996	1.004
0.37	0.08	0.57	98.13	0.24	97.89	1.01	0.989	1.005
0.38	0.07	0.56	98.09	0.24	97.85	1.01	0.993	1.004
0.37	0.04	0.64	97.60	0.27	97.33	1.02	0.999	0.985
0.36	0.07	0.56	97.55	0.24	97.31	1.01	0.997	0.997
0.28	0.17	0.56	97.92	0.23	97.69	1.01	1.000	0.994
0.34	0.10	0.51	97.75	0.21	97.53	1.01	0.990	1.003
0.36	0.10	0.54	97.48	0.23	97.26	1.01	0.989	1.003
0.35	0.16	0.54	98.27	0.23	98.04	1.00	0.996	1.007
0.31	0.04	0.51	97.34	0.21	97.13	1.01	1.002	0.989
0.28	0.09	0.56	97.63	0.24	97.39	1.01	0.999	0.993
0.48	0.08	0.62	98.10	0.26	97.84	1.01	0.995	1.004
0.51	0.08	0.37	98.05	0.16	97.89	1.00	0.997	1.013
0.55	0.09	0.37	98.03	0.15	97.88	1.01	0.995	1.006
0.41	0.01	0.38	98.11	0.16	97.95	1.00	1.002	1.005
0.47	0.03	0.38	97.99	0.16	97.83	1.02	1.007	0.982
0.51	0.13	0.43	97.41	0.18	97.23	1.02	1.016	0.972
0.36	0.07	0.57	97.61	0.24	97.37	1.00	0.994	1.008
0.33	0.04	0.50	97.62	0.21	97.41	1.00	0.996	1.004
0.35	0.13	0.50	98.00	0.21	97.78	1.00	1.001	1.002
0.39	0.06	0.63	98.16	0.27	97.89	1.01	0.999	0.996
0.26	0.06	0.74	99.05	0.31	98.74	1.00	0.992	1.017
0.27	0.03	0.66	98.08	0.28	97.81	1.00	0.995	1.010
0.32	0.13	0.58	99.17	0.24	98.92	1.00	0.994	1.011
0.32	0.11	0.57	99.13	0.24	98.89	1.00	0.997	1.010
0.30	0.09	0.58	98.98	0.25	98.73	1.00	0.992	1.013
0.34	0.07	0.62	99.83	0.26	99.57	1.00	0.994	1.010
0.31	0.10	0.59	98.84	0.25	98.59	1.00	0.990	1.014
0.26	0.21	0.58	99.26	0.25	99.01	1.00	0.992	1.012
0.34	0.13	0.56	99.17	0.24	98.94	1.00	0.992	1.014
0.33	0.09	0.60	98.89	0.25	98.64	1.00	0.987	1.017
0.31	0.08	0.55	98.55	0.23	98.32	1.00	0.991	1.013
0.40	0.08	0.53	98.80	0.22	98.57	1.00	0.995	1.009
0.32	0.09	0.55	98.55	0.23	98.32	1.00	0.989	1.016
0.50	0.18	0.41	98.99	0.17	98.82	1.00	0.995	1.011
0.45	0.19	0.44	98.92	0.19	98.74	1.00	0.991	1.018
0.53	0.12	0.50	98.75	0.21	98.54	1.00	0.993	1.014
0.38	0.04	0.44	99.01	0.19	98.83	1.00	0.992	1.016
0.50	0.10	0.47	98.54	0.20	98.34	1.00	0.990	1.018
0.33	0.16	0.61	98.37	0.26	98.11	1.00	0.996	1.007
0.35	0.11	0.58	98.07	0.25	97.82	1.00	0.995	1.009
0.34	0.09	0.62	97.67	0.26	97.41	1.00	0.992	1.009
0.54	0.18	0.45	99.03	0.19	98.84	1.00	0.994	1.015
0.03	0.01	0.88	100.41	0.37	100.04	1.00	0.987	1.014

0.88	0.42	0.47	97.48	0.20	97.28	1.00	0.992	1.024
0.26	0.12	0.57	99.63	0.24	99.39	1.00	0.986	1.018
0.53	0.16	0.53	99.05	0.22	98.82	1.00	0.984	1.032
0.01	0.00	0.78	101.13	0.33	100.80	1.00	0.981	1.022
0.08	0.00	0.78	100.84	0.33	100.51	1.00	0.979	1.021
0.76	0.30	0.62	98.35	0.26	98.09	1.00	0.987	1.030
0.66	0.28	0.58	98.05	0.24	97.81	1.00	0.988	1.029
0.23	0.00	0.74	100.08	0.31	99.77	1.00	0.988	1.016
0.28	0.00	0.67	99.40	0.28	99.12	1.00	0.981	1.023
0.57	0.30	0.53	98.81	0.22	98.59	1.00	0.996	1.012
0.08	0.10	0.78	100.21	0.33	99.88	1.00	0.985	1.016
0.27	0.09	0.47	99.54	0.20	99.34	1.00	0.991	1.017
0.29	0.00	0.51	99.58	0.21	99.37	1.00	0.988	1.017
1.00	0.29	0.51	97.52	0.21	97.31	1.00	0.997	1.019
0.30	0.09	0.53	99.38	0.22	99.16	1.00	0.994	1.016
0.71	0.31	0.51	97.16	0.22	96.95	1.00	1.001	1.018
0.32	0.12	0.54	98.89	0.23	98.66	1.00	0.994	1.022
0.34	0.09	0.78	99.28	0.33	98.95	1.00	0.992	1.014
0.37	0.07	0.51	99.44	0.21	99.23	1.00	0.991	1.015
0.39	0.04	0.69	99.32	0.29	99.03	1.00	0.992	1.013
0.28	0.14	0.70	98.70	0.29	98.40	1.00	0.993	1.010
0.80	0.26	0.69	97.78	0.29	97.49	1.00	0.997	1.017
0.06	0.00	0.92	100.17	0.39	99.78	1.00	0.983	1.017
0.16	0.19	0.75	99.05	0.31	98.74	1.00	0.990	1.016
0.46	0.18	0.46	98.82	0.19	98.63	1.00	0.977	1.035
0.30	0.15	0.52	99.16	0.22	98.95	1.00	0.985	1.019
0.46	0.06	0.45	98.46	0.19	98.27	1.00	0.980	1.034
0.23	0.07	0.75	99.08	0.32	98.77	1.00	0.981	1.022
0.38	0.11	0.53	99.89	0.22	99.67	1.02	1.002	0.987
0.33	0.12	0.67	99.64	0.28	99.36	1.00	0.990	1.014
0.07	0.00	0.80	99.11	0.34	98.77	1.00	0.994	1.018
0.21	0.00	0.60	99.12	0.25	98.87	1.00	1.000	1.006
0.29	0.00	0.67	99.12	0.28	98.84	1.00	0.989	1.014
0.44	0.04	0.56	99.39	0.24	99.15	1.00	0.981	1.023
0.46	0.12	0.66	101.65	0.28	101.37	1.00	1.001	1.061
0.27	0.07	0.65	99.04	0.27	98.77	1.00	0.986	1.017
0.42	0.08	0.45	98.63	0.19	98.44	1.00	0.982	1.026
0.56	0.07	0.45	98.52	0.19	98.32	1.00	0.986	1.026
0.40	0.07	0.57	99.74	0.24	99.51	1.00	0.997	1.005
0.40	0.10	0.54	99.22	0.23	99.00	1.00	0.993	1.012
0.30	0.14	0.64	99.45	0.27	99.18	1.00	0.994	1.011

F apfu	Si apfu	Al apfu	Ti apfu	Mg apfu	Fe Tot apfu	Ca apfu	Mn apfu	Na apfu
0.096	1.030	0.080	0.827	0.001	0.0688	0.961	0.005	0.002
0.072	1.012	0.056	0.851	0.002	0.0702	0.957	0.007	0.002
0.066	1.001	0.063	0.828	0.002	0.0812	0.947	0.003	0.002
0.081	1.006	0.056	0.855	0.001	0.0724	0.965	0.005	0.002
0.078	1.013	0.056	0.853	0.002	0.0723	0.963	0.005	0.000
0.082	1.003	0.054	0.862	0.002	0.0677	0.978	0.006	0.001
0.082	1.004	0.050	0.865	0.002	0.0658	0.978	0.005	0.002
0.081	1.011	0.049	0.868	0.002	0.0610	0.979	0.006	0.002
0.065	1.014	0.054	0.846	0.001	0.0707	0.955	0.005	0.003
0.074	1.006	0.057	0.861	0.002	0.0672	0.955	0.006	0.001
0.086	1.010	0.053	0.862	0.001	0.0701	0.969	0.007	
0.073	1.001	0.053	0.855	0.002	0.0715	0.982	0.007	0.001
0.068	1.003	0.054	0.863	0.003	0.0723	0.969	0.009	0.001
0.079	1.008	0.059	0.843	0.003	0.0734	0.970	0.007	0.001
0.036	1.003	0.040	0.866	0.001	0.0430	0.986	0.005	0.004
0.057	0.993	0.051	0.841	0.002	0.0652	0.971	0.009	0.002
0.101	1.001	0.064	0.849	0.002	0.0715	0.979	0.008	0.001
0.062	1.000	0.052	0.828	0.002	0.0659	0.975	0.008	0.003
0.068	0.994	0.046	0.843	0.001	0.0683	0.977	0.009	0.002
0.062	0.996	0.049	0.845	0.002	0.0687	0.965	0.008	0.002
0.053	0.998	0.070	0.818	0.002	0.0693	0.941	0.002	0.002
0.052	1.011	0.079	0.793	0.005	0.0851	0.923	0.003	0.002
0.065	0.995	0.073	0.821	0.001	0.0717	0.944	0.003	0.001
0.071	1.004	0.061	0.851	0.001	0.0522	0.981	0.005	0.003
0.097	1.001	0.065	0.846	0.002	0.0704	0.977	0.009	0.002
0.062	1.006	0.065	0.843	0.002	0.0641	0.943	0.003	0.001
0.053	1.008	0.075	0.804	0.002	0.0687	0.934	0.003	0.002
0.056	1.006	0.060	0.845	0.001	0.0539	0.961	0.003	0.002
0.062	1.001	0.056	0.856	0.001	0.0462	0.980	0.002	0.001
0.066	1.003	0.048	0.893	0.001	0.0439	0.974	0.003	0.001
0.057	1.031	0.054	0.885	0.001	0.0435	0.947	0.003	0.002
0.084	1.006	0.055	0.862	0.002	0.0693	0.965	0.004	0.001
0.068	1.004	0.063	0.830	0.004	0.0808	0.945	0.004	0.001
0.076	1.004	0.067	0.814	0.003	0.0854	0.950	0.004	0.000
0.070	0.996	0.062	0.839	0.003	0.0780	0.952	0.004	0.001
0.071	1.004	0.063	0.836	0.002	0.0788	0.946	0.004	0.001
0.080	1.007	0.057	0.844	0.002	0.0763	0.963	0.003	
0.077	1.002	0.057	0.866	0.003	0.0585	0.975	0.005	0.001
0.047	0.989	0.059	0.837	0.001	0.0681	0.956	0.004	0.003
0.050	0.998	0.059	0.826	0.001	0.0652	0.959	0.004	0.003
0.063	0.997	0.051	0.869	0.001	0.0557	0.977	0.004	0.001
0.056	0.997	0.048	0.870	0.002	0.0541	0.976	0.005	0.002
0.051	0.993	0.049	0.853	0.001	0.0566	0.975	0.005	0.002
0.064	0.996	0.048	0.848	0.001	0.0705	0.991	0.005	0.001

0.065	0.995	0.046	0.851	0.001	0.0720	0.991	0.004	0.001
0.055	0.997	0.042	0.860	0.001	0.0649	0.983	0.004	0.002
0.066	1.000	0.053	0.854	0.002	0.0619	0.984	0.003	0.000
0.065	0.998	0.054	0.867	0.001	0.0575	0.974	0.003	0.000
0.061	0.993	0.057	0.862	0.001	0.0627	0.983	0.003	0.000
0.062	0.997	0.057	0.858	0.002	0.0579	0.985	0.004	0.001
0.059	0.997	0.056	0.863	0.000	0.0609	0.979	0.003	0.000
0.059	0.997	0.062	0.862	0.001	0.0592	0.968	0.005	0.001
0.066	1.000	0.064	0.853	0.003	0.0577	0.969	0.005	
0.048	1.000	0.068	0.836	0.002	0.0743	0.933	0.003	0.002
0.062	0.999	0.062	0.868	0.002	0.0572	0.959	0.004	
0.053	0.992	0.059	0.875	0.001	0.0514	0.967	0.004	0.001
0.046	0.995	0.062	0.818	0.003	0.0738	0.946	0.004	0.005
0.054	0.994	0.061	0.850	0.002	0.0672	0.948	0.004	0.003
0.059	1.000	0.057	0.863	0.001	0.0562	0.975	0.003	0.000
0.063	0.990	0.058	0.859	0.002	0.0646	0.977	0.004	0.001
0.069	0.994	0.058	0.865	0.002	0.0612	0.976	0.005	0.001
0.060	0.991	0.057	0.859	0.001	0.0584	0.984	0.003	0.001
0.063	0.996	0.064	0.854	0.001	0.0622	0.975	0.005	0.001
0.059	0.994	0.063	0.868	0.002	0.0576	0.960	0.006	
0.060	0.989	0.062	0.863	0.002	0.0600	0.970	0.005	
0.056	0.991	0.061	0.860	0.001	0.0593	0.972	0.005	
0.044	0.993	0.057	0.868	0.001	0.0543	0.963	0.003	0.001
0.053	0.992	0.065	0.852	0.002	0.0623	0.964	0.003	
0.062	0.990	0.066	0.856	0.002	0.0636	0.963	0.005	
0.059	1.009	0.061	0.855	0.001	0.0567	0.967	0.005	
0.062	0.999	0.063	0.865	0.000	0.0537	0.970	0.004	
0.061	0.993	0.059	0.876	0.001	0.0487	0.977	0.003	0.001
0.064	0.992	0.055	0.859	0.002	0.0582	0.976	0.006	0.001
0.044	0.992	0.049	0.879	0.001	0.0533	0.968	0.003	
0.049	0.988	0.055	0.872		0.0538	0.969	0.005	0.001
0.052	0.986	0.054	0.874		0.0536	0.978	0.004	0.001
0.043	1.002	0.053	0.859	0.001	0.0541	0.981	0.004	0.000
0.039	0.988	0.048	0.892	0.001	0.0430	0.972	0.003	0.002
0.052	0.993	0.060	0.830	0.002	0.0706	0.954	0.004	0.004
0.082	1.007	0.074	0.841	0.001	0.0615	0.968	0.010	0.026
0.055	0.988	0.067	0.788	0.000	0.0884	0.949	0.003	0.002
0.067	1.000	0.058	0.869	0.001	0.0579	0.974	0.004	
0.071	0.995	0.054	0.892	0.000	0.0461	0.997	0.004	0.001
0.047	0.990	0.054	0.881	0.001	0.0514	0.978	0.004	0.000
0.038	0.986	0.050	0.889	0.001	0.0446	0.977	0.003	0.000
0.041	0.989	0.050	0.876	0.001	0.0502	0.983	0.003	
0.056	0.990	0.057	0.869	0.002	0.0623	0.962	0.000	0.004
0.059	0.978	0.053	0.880	0.001	0.0579	0.974	0.001	0.002
0.063	0.989	0.050	0.878	0.001	0.0488	1.005	0.003	0.002
0.059	0.996	0.060	0.859	0.007	0.0576	0.967	0.002	0.002
0.056	0.986	0.050	0.883	0.001	0.0532	0.985	0.002	0.002

0.038	0.991	0.049	0.880	0.002	0.0458	0.982	0.003	0.001
0.049	0.984	0.050	0.895	0.001	0.0433	0.980	0.003	0.001
0.061	0.986	0.053	0.887	0.002	0.0497	0.987	0.002	0.001
0.071	0.988	0.051	0.898	0.002	0.0425	1.002	0.004	0.000
0.047	0.988	0.053	0.899	0.001	0.0437	0.976	0.003	0.000
0.038	0.979	0.051	0.886		0.0467	0.982	0.003	
0.036	0.985	0.052	0.883	0.002	0.0477	0.970	0.004	0.001
0.056	0.984	0.057	0.867	0.001	0.0561	0.987	0.003	0.000
0.046	0.982	0.056	0.879	0.001	0.0533	0.982	0.004	0.000
0.051	0.987	0.055	0.881	0.000	0.0505	0.983	0.003	0.000
0.051	0.986	0.055	0.880	0.001	0.0529	0.983	0.004	0.000
0.089	1.002	0.053	0.861	0.001	0.0657	0.997	0.003	0.001
0.073	0.999	0.054	0.858	0.002	0.0629	0.976	0.003	0.002
0.066	1.007	0.052	0.855	0.001	0.0572	0.990	0.005	
0.076	1.000	0.049	0.861	0.001	0.0566	0.997	0.005	0.001
0.067	0.993	0.056	0.850	0.002	0.0654	0.977	0.005	0.002
0.073	1.003	0.046	0.862	0.002	0.0677	0.974	0.004	0.001
0.056	0.998	0.049	0.819	0.001	0.0717	0.967	0.007	0.003
0.056	1.001	0.048	0.811	0.002	0.0723	0.969	0.006	0.003
0.070	0.997	0.054	0.839	0.001	0.0635	0.989	0.003	0.001
0.070	1.002	0.048	0.826	0.002	0.0691	0.981	0.002	0.001
0.063	0.996	0.051	0.839	0.001	0.0591	0.988	0.002	0.001
0.056	1.006	0.055	0.843	0.008	0.0587	0.970	0.003	0.000
0.065	1.002	0.053	0.839	0.001	0.0586	0.984	0.002	0.002
0.049	0.990	0.049	0.828	0.002	0.0745	0.966	0.007	0.001
0.064	0.999	0.048	0.840	0.002	0.0719	0.962	0.009	0.002
0.083	0.996	0.057	0.843	0.002	0.0741	0.973	0.008	0.002
0.060	0.993	0.048	0.836	0.002	0.0719	0.970	0.007	0.002
0.057	0.998	0.049	0.813	0.002	0.0772	0.971	0.010	0.003
0.047	0.990	0.058	0.822	0.002	0.0671	0.960	0.005	0.003
0.048	0.997	0.060	0.829	0.002	0.0679	0.951	0.003	0.003
0.064	1.001	0.052	0.867	0.003	0.0603	0.985	0.005	0.001
0.070	1.003	0.055	0.857	0.001	0.0641	0.992	0.006	
0.067	0.995	0.057	0.862	0.001	0.0678	0.989	0.005	0.000
0.051	0.996	0.049	0.852	0.002	0.0631	0.966	0.002	0.001
0.064	0.997	0.055	0.846	0.001	0.0639	0.978	0.003	0.003
0.079	1.002	0.049	0.870	0.001	0.0599	0.989	0.004	0.001
0.090	0.997	0.050	0.873	0.002	0.0656	0.990	0.004	0.001
0.078	1.009	0.054	0.875	0.001	0.0538	0.982	0.003	0.002
0.084	0.998	0.052	0.869	0.001	0.0691	0.988	0.003	0.000
0.059	1.000	0.052	0.861	0.002	0.0622	0.974	0.004	
0.071	0.997	0.053	0.868	0.001	0.0632	0.984	0.005	0.001
0.052	0.997	0.062	0.823	0.002	0.0709	0.969	0.005	0.002
0.073	0.999	0.057	0.860	0.002	0.0656	0.986	0.005	0.001
0.069	1.000	0.054	0.860	0.001	0.0643	0.986	0.004	0.001
0.036	0.990	0.058	0.825	0.002	0.0694	0.951	0.004	0.005
0.047	0.994	0.052	0.837	0.001	0.0670	0.986	0.007	0.002

0.059	0.998	0.053	0.870	0.001	0.0421	0.996	0.004	0.000
0.063	0.998	0.050	0.823	0.001	0.0626	0.992	0.007	0.002
0.054	0.994	0.050	0.896	0.000	0.0354	0.998	0.003	0.002
0.055	0.999	0.046	0.895	0.001	0.0386	0.986	0.003	0.002
0.077	0.989	0.055	0.847	0.005	0.0588	0.982	0.005	0.009
0.060	0.990	0.050	0.899	0.002	0.0336	0.999	0.002	0.005
0.081	0.999	0.066	0.848	0.003	0.0592	0.975	0.004	0.003
0.060	1.001	0.051	0.893	0.001	0.0375	0.985	0.002	0.004
0.062	1.000	0.051	0.890	0.001	0.0365	0.994	0.002	0.001
0.077	0.999	0.064	0.826	0.002	0.0803	0.979	0.004	0.001
0.083	1.004	0.064	0.820	0.002	0.0808	0.975	0.005	0.003
0.049	0.985	0.053	0.797	0.002	0.0821	0.968	0.004	0.004
0.068	0.987	0.058	0.808	0.003	0.0855	0.971	0.004	0.002
0.053	1.003	0.046	0.893	0.001	0.0390	0.992	0.002	0.001
0.062	0.998	0.050	0.880	0.001	0.0419	0.999	0.003	0.002
0.056	1.000	0.053	0.877	0.002	0.0474	1.004	0.002	0.001
0.060	0.994	0.053	0.873	0.001	0.0443	0.992	0.002	0.002
0.072	0.998	0.053	0.889	0.002	0.0435	0.992	0.003	0.001
0.070	1.003	0.052	0.887	0.001	0.0448	0.996	0.002	0.003
0.066	1.005	0.055	0.877	0.002	0.0455	0.991	0.003	0.001
0.061	0.996	0.047	0.867	0.003	0.0568	0.987	0.002	0.003
0.067	0.999	0.048	0.871	0.001	0.0576	0.984	0.002	0.001
0.072	0.997	0.047	0.871	0.001	0.0609	1.002	0.004	0.000
0.066	1.000	0.047	0.881	0.001	0.0528	0.989	0.003	0.001
0.054	0.998	0.047	0.884	0.001	0.0555	0.990	0.003	0.001
0.068	0.998	0.048	0.877	0.001	0.0547	1.005	0.004	0.002
0.065	1.001	0.047	0.875	0.001	0.0575	1.000	0.004	0.001
0.056	0.969	0.045	0.892		0.0601	0.984	0.004	0.003
0.051	0.964	0.052	0.881		0.0571	0.976	0.004	0.023
0.032	0.962	0.046	0.900		0.0515	0.975	0.004	0.002
0.033	0.962	0.052	0.897		0.0453	0.980	0.004	0.002
0.048	0.978	0.060	0.879		0.0559	0.958	0.004	0.005
0.062	0.971	0.062	0.860	0.000	0.0661	0.977	0.005	0.002
0.032	0.975	0.051	0.887	0.000	0.0551	0.955	0.003	
0.031	0.972	0.048	0.905		0.0488	0.965	0.003	
0.028	0.984	0.050	0.887		0.0532	0.948	0.003	0.001
0.042	0.985	0.056	0.884		0.0550	0.963	0.004	0.001
0.052	0.982	0.055	0.880		0.0608	0.970	0.004	
0.048	1.000	0.053	0.885	0.001	0.0497	0.972	0.003	
0.056	0.992	0.058	0.881	0.001	0.0571	0.966	0.003	
0.044	1.003	0.054	0.885	0.001	0.0476	0.964	0.003	
0.049	0.998	0.054	0.873	0.001	0.0545	0.966	0.003	
0.057	0.995	0.055	0.874	0.001	0.0557	0.967	0.004	
0.059	0.994	0.057	0.866	0.001	0.0602	0.970	0.004	
0.058	0.997	0.057	0.862	0.001	0.0599	0.971	0.004	0.000

0.061	0.995	0.060	0.864	0.001	0.0594	0.975	0.004	
0.063	0.991	0.059	0.863	0.001	0.0588	0.977	0.007	
0.041	0.989	0.064	0.817	0.002	0.0650	0.965	0.006	0.002
0.047	0.987	0.066	0.823	0.002	0.0653	0.962	0.007	0.001
0.063	1.000	0.064	0.846	0.002	0.0641	0.969	0.005	0.001
0.054	0.993	0.063	0.865	0.001	0.0599	0.971	0.004	
0.056	0.998	0.058	0.879	0.001	0.0503	0.970	0.003	
0.048	0.997	0.059	0.881	0.001	0.0524	0.963	0.002	
0.058	1.005	0.058	0.872	0.001	0.0539	0.964	0.002	
0.047	1.000	0.056	0.881	0.001	0.0515	0.968	0.001	
0.052	0.992	0.054	0.883	0.001	0.0492	0.981	0.003	0.001
0.053	0.997	0.055	0.875	0.001	0.0548	0.977	0.003	0.001
0.052	0.998	0.057	0.872	0.001	0.0541	0.971	0.003	0.001
0.053	0.995	0.054	0.873	0.002	0.0558	0.974	0.002	
0.050	0.995	0.058	0.868	0.001	0.0535	0.976	0.003	
0.054	0.997	0.055	0.883	0.001	0.0529	0.962	0.003	
0.050	0.992	0.059	0.876	0.002	0.0521	0.966	0.002	
0.034	0.994	0.058	0.867	0.001	0.0514	0.954	0.002	
0.059	0.998	0.059	0.874	0.001	0.0571	0.968	0.003	
0.049	1.009	0.057	0.866	0.001	0.0538	0.973	0.003	
0.058	1.014	0.056	0.873	0.001	0.0483	0.969	0.004	0.000
0.050	1.012	0.051	0.879	0.001	0.0490	0.972	0.003	
0.052	1.014	0.053	0.887	0.001	0.0485	0.961	0.004	0.001
0.046	1.011	0.051	0.891	0.000	0.0489	0.965	0.002	
0.044	1.007	0.054	0.887	0.001	0.0476	0.954	0.002	
0.039	1.008	0.052	0.887	0.001	0.0505	0.946	0.002	
0.037	1.015	0.050	0.886	0.000	0.0472	0.948	0.002	
0.033	1.018	0.049	0.882	0.000	0.0465	0.954	0.002	
0.042	1.012	0.056	0.868	0.001	0.0519	0.959	0.002	
0.044	1.009	0.054	0.875	0.001	0.0502	0.958	0.003	
0.040	1.002	0.056	0.874	0.001	0.0499	0.963	0.004	
0.046	1.002	0.055	0.881	0.001	0.0514	0.962	0.002	
0.044	1.007	0.057	0.874	0.001	0.0502	0.963	0.002	
0.048	1.009	0.055	0.864	0.001	0.0545	0.971	0.002	
0.050	1.012	0.057	0.861	0.001	0.0521	0.969	0.002	
0.052	1.004	0.058	0.874	0.000	0.0525	0.967	0.002	
0.032	1.003	0.057	0.881	0.001	0.0410	0.957	0.002	
0.027	1.007	0.058	0.873	0.002	0.0423	0.956	0.002	
0.034	1.011	0.062	0.870	0.001	0.0454	0.948	0.002	
0.047	1.001	0.060	0.866	0.001	0.0563	0.968	0.002	
0.053	1.001	0.058	0.873	0.001	0.0578	0.963	0.002	
0.051	1.006	0.060	0.862	0.001	0.0568	0.965	0.002	
0.049	1.005	0.061	0.853	0.002	0.0575	0.973	0.002	
0.027	1.007	0.057	0.859	0.001	0.0507	0.955	0.001	
0.026	1.006	0.050	0.884	0.000	0.0432	0.960	0.001	
0.030	1.010	0.054	0.858	0.000	0.0467	0.964	0.001	
0.048	1.006	0.062	0.858	0.001	0.0522	0.973	0.003	
0.052	1.004	0.063	0.850	0.001	0.0546	0.977	0.002	

0.057	1.004	0.052	0.882	0.001	0.0454	0.975	0.004	
0.047	1.004	0.055	0.885	0.001	0.0489	0.964	0.002	
0.052	1.008	0.056	0.862	0.001	0.0515	0.977	0.004	
0.045	1.010	0.060	0.859	0.000	0.0484	0.977	0.002	
0.045	1.007	0.061	0.860	0.001	0.0527	0.969	0.002	
0.044	1.003	0.060	0.869	0.001	0.0513	0.966	0.002	
0.041	1.010	0.061	0.858	0.001	0.0518	0.963	0.003	
0.037	1.003	0.058	0.859	0.001	0.0499	0.974	0.005	
0.049	1.012	0.061	0.850	0.000	0.0539	0.969	0.004	
0.052	1.002	0.063	0.850	0.001	0.0580	0.972	0.004	
0.049	1.012	0.061	0.841	0.002	0.0565	0.972	0.002	
0.047	1.017	0.060	0.833	0.000	0.0569	0.979	0.003	
0.047	1.014	0.059	0.841	0.001	0.0539	0.977	0.003	
0.038	1.006	0.058	0.857	0.001	0.0532	0.968	0.002	
0.043	1.009	0.060	0.859	0.001	0.0530	0.967	0.002	
0.050	1.009	0.063	0.859	0.001	0.0519	0.964	0.002	
0.053	1.009	0.061	0.841	0.001	0.0557	0.986	0.003	
0.051	1.006	0.060	0.850	0.001	0.0528	0.983	0.003	
0.050	1.020	0.056	0.858	0.001	0.0493	0.976	0.004	
0.042	1.030	0.066	0.877	0.001	0.0443	0.931	0.004	0.017
0.049	1.012	0.059	0.881	0.001	0.0521	0.958	0.003	
0.057	1.006	0.059	0.875	0.000	0.0556	0.965	0.004	
0.040	1.003	0.053	0.871	0.001	0.0545	0.961	0.004	0.000
0.033	0.998	0.051	0.878	0.001	0.0495	0.968	0.004	
0.034	0.999	0.051	0.881	0.001	0.0485	0.964	0.004	0.001
0.055	1.007	0.056	0.874	0.001	0.0552	0.962	0.005	
0.055	1.001	0.055	0.888	0.001	0.0527	0.968	0.003	
0.064	1.028	0.062	0.869	0.000	0.0525	0.952	0.003	
0.063	0.988	0.058	0.885	0.002	0.0569	0.973	0.002	
0.051	1.003	0.060	0.878	0.001	0.0548	0.967	0.003	
0.034	0.993	0.053	0.876	0.001	0.0523	0.957	0.003	
0.056	1.000	0.058	0.888	0.001	0.0505	0.965	0.002	
0.043	1.001	0.053	0.887	0.001	0.0517	0.959	0.003	
0.059	1.007	0.059	0.880	0.001	0.0566	0.959	0.003	
0.054	1.003	0.052	0.886	0.001	0.0637	0.963	0.003	0.001
0.044	0.993	0.049	0.891	0.001	0.0600	0.965	0.003	
0.038	1.000	0.046	0.905	0.001	0.0522	0.958	0.003	
0.041	0.983	0.043	0.878	0.002	0.1082	0.949	0.003	0.000
0.057	0.999	0.050	0.892	0.000	0.0534	0.984	0.004	
0.034	1.004	0.044	0.895		0.0554	0.961	0.003	
0.043	0.998	0.044	0.898		0.0549	0.972	0.005	
0.038	0.997	0.044	0.900	0.001	0.0499	0.968	0.003	
0.035	0.998	0.040	0.908	0.001	0.0457	0.968	0.003	
0.054	0.995	0.051	0.878	0.003	0.0629	0.977	0.003	0.002
0.046	0.999	0.052	0.884	0.001	0.0557	0.973	0.003	
0.047	0.991	0.048	0.893	0.001	0.0601	0.971	0.003	
0.036	0.997	0.051	0.877	0.001	0.0582	0.959	0.003	
0.046	0.996	0.048	0.891	0.001	0.0525	0.972	0.004	

0.052	1.000	0.051	0.886		0.0521	0.973	0.004	
0.064	0.999	0.051	0.867	0.001	0.0674	0.971	0.004	0.001
0.085	0.998	0.054	0.881	0.001	0.0637	0.987	0.005	0.001
0.046	1.003	0.042	0.892	0.001	0.0543	0.971	0.004	0.000
0.049	1.001	0.042	0.890	0.001	0.0491	0.983	0.005	0.001
0.068	1.014	0.053	0.899		0.0331	0.992	0.004	0.001
0.056	1.002	0.052	0.881	0.001	0.0535	0.974	0.005	
0.052	0.998	0.052	0.889	0.001	0.0525	0.969	0.004	
0.051	1.001	0.056	0.883	0.001	0.0500	0.975	0.003	
0.046	0.995	0.053	0.888	0.001	0.0481	0.975	0.003	
0.051	0.994	0.052	0.890	0.001	0.0499	0.971	0.004	
0.054	0.994	0.053	0.894	0.001	0.0495	0.974	0.003	0.001
0.045	0.995	0.055	0.885	0.000	0.0556	0.958	0.001	
0.051	0.992	0.056	0.886	0.001	0.0534	0.971	0.003	
0.045	0.999	0.057	0.877	0.000	0.0574	0.955	0.002	
0.049	0.990	0.056	0.889	0.000	0.0477	0.978	0.005	
0.049	0.996	0.056	0.889	0.001	0.0524	0.966	0.003	
0.047	0.991	0.053	0.891	0.001	0.0495	0.969	0.003	
0.051	0.994	0.056	0.884	0.000	0.0494	0.980	0.003	
0.050	0.996	0.055	0.888		0.0522	0.968	0.003	
0.060	0.992	0.049	0.882	0.001	0.0577	0.976	0.005	0.000
0.055	0.992	0.050	0.886	0.001	0.0525	0.981	0.003	0.000
0.056	0.989	0.051	0.889	0.001	0.0521	0.978	0.004	
0.050	0.985	0.051	0.892	0.003	0.0535	0.975	0.003	0.001
0.029	0.991	0.042	0.907	0.001	0.0447	0.957	0.002	
0.029	0.987	0.044	0.911	0.001	0.0453	0.958	0.001	0.001
0.041	0.988	0.047	0.899	0.001	0.0505	0.964	0.002	0.001
0.052	0.992	0.051	0.883	0.002	0.0534	0.978	0.003	0.001
0.046	0.987	0.048	0.896	0.002	0.0508	0.972	0.003	0.001
0.045	0.987	0.048	0.897	0.003	0.0528	0.969	0.002	0.001
0.060	0.984	0.055	0.871	0.006	0.0647	0.976	0.003	0.004
0.063	0.980	0.052	0.867	0.005	0.0746	0.973	0.006	0.003
0.080	0.977	0.054	0.863	0.005	0.0788	0.974	0.005	0.003
0.057	0.991	0.055	0.880	0.001	0.0519	0.976	0.004	
0.051	0.982	0.055	0.891	0.001	0.0507	0.975	0.002	0.000
0.057	0.987	0.056	0.883	0.001	0.0524	0.968	0.003	
0.061	1.002	0.063	0.867	0.001	0.0549	0.960	0.003	0.000
0.062	0.991	0.063	0.862	0.002	0.0543	0.978	0.003	0.000
0.044	0.974	0.127	0.831	0.007	0.0549	0.944	0.003	0.008
0.052	0.985	0.073	0.860	0.003	0.0567	0.965	0.004	0.001
0.054	0.991	0.058	0.866	0.002	0.0578	0.963	0.003	0.001
0.055	0.986	0.059	0.879	0.002	0.0531	0.967	0.003	0.001
0.058	0.992	0.064	0.877	0.001	0.0529	0.967	0.004	
0.063	0.992	0.053	0.880	0.001	0.0581	0.972	0.004	0.000
0.054	0.991	0.050	0.844	0.001	0.0720	0.970	0.005	0.001
0.055	0.987	0.050	0.846	0.001	0.0729	0.970	0.005	0.002
0.060	0.986	0.049	0.864	0.002	0.0666	0.977	0.006	0.001
0.059	0.989	0.048	0.874	0.001	0.0618	0.979	0.004	0.001

0.048	0.987	0.049	0.874	0.001	0.0589	0.983	0.006	0.001
0.051	0.986	0.050	0.884	0.000	0.0534	0.987	0.004	
0.053	0.988	0.052	0.888	0.001	0.0570	0.970	0.003	
0.033	0.988	0.069	0.877	0.001	0.0485	0.958	0.002	0.000
0.038	0.988	0.049	0.892	0.001	0.0426	0.967	0.003	0.000
0.034	0.994	0.050	0.883	0.003	0.0607	0.946	0.003	0.000
0.043	0.989	0.041	0.906	0.000	0.0439	0.976	0.004	
0.040	0.988	0.041	0.906	0.001	0.0432	0.980	0.003	0.000
0.057	0.990	0.053	0.888		0.0578	0.969	0.002	
0.058	0.992	0.052	0.882	0.001	0.0574	0.971	0.005	
0.069	0.988	0.053	0.848	0.001	0.0691	0.979	0.006	0.001
0.085	1.000	0.180	0.814	0.010	0.0615	0.911	0.004	0.001
0.073	0.998	0.064	0.878	0.002	0.0568	0.975	0.005	
0.061	0.997	0.044	0.913	0.001	0.0451	0.992	0.004	0.001
0.057	0.985	0.047	0.880	0.001	0.0591	0.984	0.005	0.001
0.053	0.988	0.050	0.896		0.0515	0.982	0.003	
0.042	0.987	0.047	0.902	0.001	0.0509	0.974	0.004	
0.046	0.987	0.048	0.898	0.001	0.0496	0.970	0.003	
0.044	0.986	0.049	0.890	0.001	0.0481	0.984	0.004	
0.043	0.988	0.048	0.896		0.0471	0.978	0.003	
0.044	0.989	0.049	0.895	0.001	0.0479	0.971	0.004	0.001
0.035	0.991	0.041	0.908	0.001	0.0433	0.964	0.003	
0.043	0.991	0.047	0.888	0.000	0.0439	0.981	0.004	
0.044	0.988	0.049	0.881	0.001	0.0450	0.990	0.004	
0.059	0.988	0.054	0.881	0.001	0.0505	0.980	0.003	
0.038	0.986	0.046	0.903	0.000	0.0426	0.974	0.004	0.001
0.038	0.992	0.057	0.858	0.001	0.0514	0.967	0.004	0.001
0.042	0.989	0.057	0.858	0.002	0.0567	0.965	0.004	
0.065	0.994	0.065	0.857	0.002	0.0601	0.982	0.004	
0.055	0.994	0.052	0.878	0.001	0.0514	0.979	0.004	
0.052	0.975	0.041	0.910	0.001	0.0471	0.984	0.005	
0.051	0.982	0.053	0.890	0.001	0.0522	0.971	0.006	0.001
0.053	0.978	0.053	0.897	0.000	0.0506	0.976	0.005	0.000
0.044	0.980	0.041	0.919	0.000	0.0381	0.983	0.005	
0.048	0.988	0.041	0.908	0.001	0.0422	0.992	0.005	
0.049	0.989	0.041	0.914		0.0368	0.986	0.006	0.001
0.045	0.990	0.045	0.894	0.001	0.0414	0.978	0.005	
0.042	0.991	0.044	0.893	0.001	0.0413	0.982	0.004	0.001
0.040	0.981	0.044	0.906	0.001	0.0410	0.979	0.003	
0.038	0.983	0.047	0.903	0.000	0.0430	0.977	0.003	0.001
0.046	0.982	0.052	0.889	0.001	0.0488	0.988	0.003	0.000
0.050	0.984	0.052	0.891	0.000	0.0479	0.981	0.003	
0.053	0.982	0.053	0.904	0.001	0.0468	0.976	0.003	
0.056	0.980	0.052	0.888	0.001	0.0556	0.980	0.004	0.000
0.064	0.992	0.057	0.874	0.001	0.0544	0.979	0.004	0.000
0.066	0.989	0.057	0.878	0.002	0.0537	0.981	0.004	0.001
0.048	0.992	0.055	0.889	0.001	0.0473	0.973	0.003	
0.053	0.986	0.054	0.889	0.001	0.0487	0.981	0.003	

0.054	0.986	0.056	0.879	0.001	0.0511	0.984	0.003	
0.052	0.989	0.055	0.887	0.001	0.0500	0.975	0.004	
0.050	0.986	0.056	0.886	0.001	0.0522	0.977	0.003	
0.057	0.990	0.055	0.878	0.001	0.0544	0.976	0.004	
0.037	0.986	0.048	0.892	0.001	0.0439	0.970	0.003	
0.045	0.989	0.054	0.886	0.001	0.0502	0.970	0.003	
0.052	0.987	0.059	0.883	0.001	0.0527	0.971	0.003	
0.058	0.988	0.058	0.881	0.001	0.0532	0.977	0.003	
0.049	0.995	0.053	0.888	0.002	0.0478	0.963	0.004	0.002
0.041	0.996	0.049	0.889	0.001	0.0488	0.960	0.004	0.003
0.050	0.996	0.054	0.887	0.001	0.0494	0.968	0.004	0.000
0.054	0.992	0.055	0.885	0.001	0.0524	0.971	0.004	
0.039	0.985	0.050	0.889	0.001	0.0503	0.968	0.004	0.000
0.043	0.985	0.050	0.891	0.001	0.0492	0.968	0.003	
0.039	0.987	0.052	0.892	0.001	0.0427	0.969	0.004	
0.037	0.981	0.050	0.905	0.000	0.0407	0.973	0.003	
0.035	0.986	0.053	0.894	0.001	0.0443	0.958	0.003	
0.030	0.992	0.052	0.896		0.0433	0.958	0.002	
0.036	0.985	0.057	0.882	0.001	0.0445	0.967	0.002	0.000
0.036	0.983	0.056	0.884	0.000	0.0457	0.967	0.003	
0.052	0.988	0.055	0.884	0.001	0.0559	0.971	0.004	0.000
0.059	0.984	0.053	0.891	0.001	0.0557	0.974	0.002	0.000
0.055	0.987	0.054	0.887	0.001	0.0525	0.969	0.004	0.000
0.054	1.003	0.057	0.878	0.001	0.0479	0.966	0.002	
0.046	0.997	0.056	0.879	0.001	0.0520	0.956	0.002	
0.033	1.000	0.055	0.875	0.002	0.0492	0.951		
0.035	0.996	0.055	0.870	0.000	0.0535	0.942	0.003	
0.065	1.003	0.047	0.898	0.001	0.0368	0.993	0.003	0.001
0.056	1.005	0.046	0.877	0.002	0.0496	0.966	0.002	0.001
0.096	1.010	0.053	0.880	0.001	0.0505	0.994	0.003	0.001
0.051	1.001	0.058	0.872	0.002	0.0495	0.960	0.002	
0.072	1.005	0.049	0.876	0.001	0.0500	0.989	0.002	
0.072	1.006	0.046	0.883	0.001	0.0460	0.994	0.003	
0.047	1.005	0.052	0.875	0.001	0.0403	0.975	0.002	0.001
0.048	1.010	0.048	0.869	0.001	0.0492	0.966	0.002	0.001
0.097	1.022	0.054	0.873	0.001	0.0531	0.987	0.003	0.001
0.054	1.003	0.057	0.871	0.001	0.0497	0.967	0.002	
0.055	1.001	0.042	0.905	0.001	0.0374	0.985	0.003	0.002
0.075	0.999	0.043	0.901	0.000	0.0443	1.003	0.004	0.001
0.071	1.011	0.048	0.884	0.001	0.0479	0.981	0.004	
0.047	1.008	0.048	0.876	0.001	0.0512	0.958	0.001	0.001
0.057	1.008	0.051	0.891	0.000	0.0369	0.979	0.002	0.000
0.054	1.012	0.064	0.861	0.002	0.0582	0.947	0.001	
0.052	1.007	0.057	0.876	0.001	0.0515	0.957	0.004	
0.046	1.002	0.060	0.866	0.001	0.0523	0.954	0.002	
0.044	0.995	0.059	0.875	0.001	0.0512	0.960	0.002	
0.032	0.994	0.058	0.860	0.001	0.0575	0.947	0.004	
0.053	1.000	0.060	0.865	0.001	0.0556	0.960	0.003	

0.046	0.997	0.057	0.883	0.001	0.0489	0.967	0.002	
0.069	1.004	0.058	0.876	0.001	0.0527	0.972	0.005	0.001
0.069	1.004	0.063	0.846	0.001	0.0636	0.967	0.005	
0.069	0.999	0.059	0.867	0.001	0.0574	0.971	0.004	
0.065	1.001	0.061	0.870	0.001	0.0575	0.959	0.005	
0.054	1.002	0.059	0.852	0.002	0.0595	0.958	0.004	
0.044	1.000	0.058	0.854	0.002	0.0595	0.950	0.004	
0.048	1.001	0.060	0.857	0.002	0.0595	0.954	0.004	
0.067	1.000	0.063	0.849	0.002	0.0621	0.973	0.006	
0.047	0.999	0.060	0.862	0.001	0.0586	0.951	0.006	
0.064	1.003	0.060	0.859	0.001	0.0612	0.962	0.005	
0.057	0.995	0.059	0.871	0.001	0.0586	0.962	0.005	
0.053	0.996	0.060	0.869	0.001	0.0552	0.965	0.004	
0.053	0.999	0.052	0.876	0.000	0.0543	0.965	0.004	0.001
0.054	1.001	0.052	0.871	0.001	0.0595	0.958	0.002	0.001
0.060	1.003	0.051	0.884	0.001	0.0575	0.964	0.003	
0.081	1.004	0.054	0.878		0.0541	0.986	0.004	
0.081	1.010	0.055	0.873	0.001	0.0570	0.981	0.004	
0.073	1.004	0.059	0.863	0.001	0.0534	0.981	0.005	0.000
0.071	1.000	0.057	0.862	0.001	0.0557	0.982	0.005	
0.065	0.994	0.060	0.833	0.001	0.0649	0.980	0.005	0.001
0.062	0.996	0.058	0.846	0.001	0.0650	0.971	0.004	
0.036	0.985	0.058	0.825	0.001	0.0600	0.967	0.006	0.001
0.045	0.992	0.048	0.879	0.001	0.0501	0.969	0.003	0.000
0.045	0.997	0.053	0.846	0.001	0.0625	0.952	0.002	0.002
0.064	0.998	0.050	0.885	0.001	0.0558	0.967	0.003	0.001
0.066	1.003	0.043	0.897	0.001	0.0454	0.985	0.003	0.001
0.056	0.996	0.059	0.846	0.001	0.0636	0.965	0.002	0.001
0.077	1.004	0.056	0.883	0.001	0.0494	0.990	0.003	
0.068	1.003	0.048	0.892	0.001	0.0428	0.991	0.004	0.001
0.066	1.007	0.040	0.907	0.000	0.0273	1.007	0.002	0.001
0.066	1.015	0.040	0.874	0.002	0.0357	1.007	0.003	0.001
0.060	1.000	0.046	0.908	0.001	0.0363	0.989	0.003	0.003
0.053	0.994	0.064	0.854	0.003	0.0599	0.960	0.005	0.002
0.056	0.992	0.047	0.882	0.002	0.0484	0.978	0.002	0.002
0.053	0.995	0.051	0.865	0.002	0.0519	0.973	0.003	0.003
0.041	0.994	0.049	0.843	0.002	0.0573	0.963	0.003	0.005
0.059	1.006	0.049	0.901	0.002	0.0253	0.993	0.002	0.003
0.050	1.007	0.057	0.902	0.002	0.0252	0.971	0.003	0.002
0.068	1.008	0.047	0.892	0.001	0.0434	0.977	0.003	0.001
0.070	1.004	0.055	0.885	0.002	0.0454	0.977	0.003	0.001
0.068	1.007	0.051	0.877	0.003	0.0532	0.982	0.002	0.001
0.062	1.004	0.061	0.871	0.001	0.0547	0.961	0.004	
0.067	1.008	0.066	0.853	0.001	0.0608	0.962	0.004	
0.068	1.001	0.067	0.828	0.002	0.0654	0.971	0.007	0.001
0.055	1.002	0.065	0.812	0.002	0.0678	0.951	0.006	0.001

0.070	0.987	0.061	0.866	0.001	0.0625	0.993	0.005	
0.073	0.992	0.059	0.866	0.001	0.0611	0.978	0.005	0.000
0.058	0.995	0.059	0.865	0.001	0.0577	0.980	0.006	0.000
0.057	0.991	0.065	0.881	0.001	0.0510	0.989	0.004	0.001
0.069	0.994	0.063	0.858	0.001	0.0613	0.984	0.005	0.001
0.060	0.995	0.059	0.877	0.001	0.0541	0.977	0.005	0.000
0.046	0.988	0.059	0.846	0.001	0.0554	0.975	0.006	0.001
0.058	0.999	0.056	0.868	0.001	0.0544	0.973	0.005	
0.069	0.999	0.064	0.858	0.001	0.0588	0.986	0.005	
0.068	0.992	0.054	0.882	0.000	0.0556	0.998	0.006	0.001
0.083	0.998	0.055	0.884	0.002	0.0548	0.992	0.005	0.001
0.073	0.994	0.051	0.883		0.0563	0.987	0.003	0.001
0.064	0.984	0.048	0.891	0.001	0.0532	0.993	0.004	0.001
0.064	0.993	0.053	0.872	0.001	0.0612	0.994	0.004	
0.050	0.998	0.044	0.868	0.002	0.0550	0.976	0.003	0.003
0.061	0.996	0.050	0.880	0.001	0.0480	0.984	0.003	0.001
0.056	0.997	0.046	0.887	0.001	0.0530	0.993	0.003	0.001
0.071	0.997	0.049	0.886	0.001	0.0578	0.986	0.003	0.001
0.095	0.995	0.055	0.881	0.003	0.0592	0.983	0.004	0.001
0.062	1.020	0.082	0.811	0.041	0.1048	0.908	0.003	0.003
0.061	0.994	0.046	0.901	0.001	0.0461	0.976	0.003	0.002
0.061	0.992	0.046	0.891	0.001	0.0561	0.973	0.004	0.001
0.058	0.999	0.056	0.874	0.002	0.0568	0.976	0.003	0.001
0.050	0.992	0.055	0.857	0.001	0.0575	0.976	0.004	0.002
0.053	0.996	0.042	0.895	0.001	0.0496	0.992	0.003	0.001
0.056	0.998	0.062	0.874	0.001	0.0559	0.965	0.002	
0.048	0.980	0.069	0.771	0.000	0.0795	0.968	0.005	0.007
0.070	0.981	0.048	0.841		0.0864	0.990	0.005	0.001
0.063	0.987	0.058	0.855		0.0634	0.992	0.005	0.002
0.075	0.981	0.051	0.891		0.0547	1.003	0.004	
0.079	0.980	0.051	0.882		0.0599	1.002	0.004	
0.083	0.980	0.052	0.886		0.0583	1.000	0.004	0.000
0.055	0.980	0.065	0.818	0.001	0.0850	0.956	0.005	0.003
0.078	0.985	0.053	0.868		0.0644	0.992	0.007	0.001
0.053	0.986	0.061	0.876		0.0580	0.968	0.004	0.000
0.065	0.983	0.058	0.877		0.0607	0.985	0.004	0.000
0.059	0.974	0.067	0.822		0.0811	0.967	0.005	0.002
0.065	0.976	0.050	0.875		0.0662	1.000	0.007	0.001
0.077	0.993	0.050	0.891		0.0538	0.991	0.004	0.000
0.068	0.992	0.053	0.871		0.0608	0.983	0.006	0.001
0.062	0.980	0.074	0.869	0.001	0.0619	0.969	0.006	0.001
0.055	0.989	0.060	0.881	0.000	0.0550	0.964	0.006	
0.058	0.989	0.059	0.886		0.0537	0.978	0.005	
0.075	0.993	0.058	0.864	0.000	0.0657	0.981	0.005	0.000
0.076	0.990	0.047	0.893		0.0551	0.991	0.004	0.001
0.068	0.991	0.047	0.891		0.0536	0.992	0.004	0.001

0.066	0.992	0.050	0.880		0.0576	0.987	0.005	0.001
0.057	0.990	0.059	0.837	0.000	0.0696	0.969	0.005	0.003
0.069	0.984	0.062	0.815		0.0815	0.978	0.006	0.002
0.039	0.982	0.054	0.886		0.0489	0.969	0.005	
0.078	0.989	0.050	0.888		0.0565	0.998	0.004	0.001
0.046	0.989	0.054	0.886		0.0560	0.967	0.004	
0.047	0.987	0.070	0.787	0.000	0.0802	0.962	0.005	0.007
0.059	0.988	0.052	0.854		0.0725	0.980	0.006	0.002
0.089	0.984	0.051	0.882		0.0648	0.997	0.004	0.000
0.046	0.992	0.055	0.827		0.0718	0.975	0.006	0.005
0.055	0.989	0.063	0.826	0.000	0.0844	0.947	0.005	0.004
0.039	0.986	0.059	0.795	0.001	0.0884	0.954	0.006	0.008
0.063	0.981	0.067	0.816		0.0880	0.964	0.005	0.003
0.089	0.982	0.057	0.860	0.001	0.0739	0.981	0.008	0.001
0.056	0.975	0.051	0.830	0.001	0.0824	0.969	0.010	0.006
0.071	0.982	0.053	0.868	0.001	0.0600	0.997	0.005	0.005
0.056	0.977	0.047	0.844	0.002	0.0762	0.979	0.009	0.005
0.078	0.976	0.054	0.888	0.001	0.0487	1.006	0.004	0.007
0.071	0.979	0.061	0.849	0.002	0.0767	0.988	0.012	0.004
0.057	0.979	0.058	0.877		0.0616	0.986	0.006	
0.085	0.982	0.057	0.866	0.001	0.0713	0.999	0.004	0.000
0.062	0.987	0.058	0.874		0.0597	0.985	0.005	
0.063	0.975	0.061	0.861	0.001	0.0611	1.014	0.004	0.001
0.086	0.991	0.058	0.859		0.0695	0.993	0.005	0.000
0.086	0.984	0.057	0.877		0.0679	0.994	0.006	0.000
0.077	0.986	0.063	0.867		0.0622	0.987	0.006	
0.056	0.983	0.062	0.869		0.0660	0.975	0.006	
0.051	0.985	0.051	0.884	0.000	0.0528	0.984	0.006	0.001
0.056	0.990	0.062	0.873		0.0669	0.961	0.004	
0.072	0.988	0.060	0.855	0.001	0.0736	0.975	0.006	
0.089	0.984	0.053	0.884		0.0670	1.004	0.004	0.001
0.074	0.988	0.057	0.872	0.000	0.0635	0.986	0.005	0.000
0.064	0.992	0.062	0.862		0.0654	0.969	0.006	
0.064	0.978	0.058	0.872		0.0669	0.980	0.006	
0.052	0.980	0.068	0.849		0.0832	0.956	0.005	
0.036	0.984	0.063	0.875		0.0569	0.954	0.005	
0.059	0.988	0.057	0.876		0.0626	0.972	0.005	
0.080	0.984	0.055	0.891		0.0565	1.001	0.004	0.001
0.059	0.987	0.062	0.872		0.0677	0.965	0.003	
0.089	0.986	0.058	0.884		0.0576	1.004	0.004	0.000
0.083	0.991	0.064	0.884		0.0507	0.992	0.004	0.001
0.078	0.982	0.061	0.875		0.0602	0.991	0.006	0.000
0.062	0.990	0.061	0.866		0.0617	0.977	0.006	
0.043	0.986	0.053	0.877		0.0636	0.962	0.004	
0.056	0.988	0.058	0.865		0.0664	0.976	0.006	

0.077	0.994	0.057	0.870		0.0684	0.988	0.004	0.001
0.075	0.984	0.051	0.884	0.003	0.0610	0.991	0.004	0.003
0.057	0.993	0.065	0.821		0.0810	0.956	0.006	0.000
0.079	0.990	0.053	0.887		0.0581	0.994	0.004	0.002
0.095	1.000	0.050	0.873		0.0793	0.989	0.004	0.001
0.092	0.996	0.050	0.888		0.0584	0.994	0.004	0.001
0.071	0.987	0.059	0.867		0.0678	0.970	0.006	
0.064	0.988	0.066	0.862	0.002	0.0661	0.959	0.006	
0.055	0.989	0.055	0.896		0.0674	0.984	0.007	
0.096	0.979	0.061	0.866		0.0968	0.983	0.005	0.000
0.060	0.977	0.058	0.871	0.000	0.0851	0.962	0.007	0.002
0.060	0.983	0.059	0.844	0.000	0.0911	0.947	0.005	0.000
0.066	0.980	0.061	0.848		0.0773	0.977	0.006	0.000
0.049	0.983	0.068	0.815	0.001	0.0756	0.952	0.008	0.002
0.044	0.995	0.056	0.838	0.000	0.0607	0.954	0.007	0.003
0.056	0.990	0.060	0.872		0.0544	0.975	0.006	0.002
0.080	0.980	0.054	0.886		0.0569	0.998	0.005	0.000
0.090	0.985	0.051	0.885		0.0603	0.994	0.003	0.001
0.079	0.986	0.051	0.882		0.0849	0.980	0.004	0.001
0.047	0.982	0.064	0.866	0.001	0.0500	0.971	0.008	0.001
0.069	0.980	0.060	0.862		0.0675	0.979	0.007	0.001
0.062	0.985	0.062	0.866	0.001	0.0619	0.963	0.006	
0.048	0.980	0.065	0.843		0.0603	0.992	0.008	0.003
0.040	0.992	0.051	0.881		0.0482	0.964	0.005	0.000
0.079	0.985	0.048	0.893	0.000	0.0538	0.999	0.004	
0.068	0.983	0.051	0.898		0.0450	1.015	0.005	
0.082	0.993	0.057	0.868		0.0626	0.992	0.005	0.001
0.082	0.985	0.056	0.882		0.0604	0.995	0.006	
0.098	0.998	0.056	0.866		0.0666	0.991	0.006	0.000
0.085	0.991	0.056	0.876		0.0697	0.989	0.006	0.001
0.091	0.987	0.058	0.878	0.000	0.0612	0.996	0.006	
0.069	0.988	0.049	0.885	0.000	0.0604	0.982	0.005	
0.078	0.988	0.055	0.875	0.001	0.0754	0.984	0.006	0.000
0.085	0.989	0.054	0.874	0.000	0.0652	0.993	0.006	0.001
0.042	0.993	0.061	0.836		0.0681	0.956	0.006	0.000
0.098	1.001	0.056	0.876		0.0617	0.995	0.005	0.001
0.087	0.994	0.053	0.884		0.0664	0.992	0.005	0.000
0.068	0.995	0.061	0.858		0.0737	0.968	0.006	
0.091	0.999	0.055	0.890		0.0547	0.995	0.005	0.001
0.060	0.983	0.062	0.871		0.0602	0.974	0.006	
0.079	0.996	0.052	0.885		0.0466	1.008	0.006	0.002
0.088	0.996	0.052	0.896		0.0494	0.999	0.004	
0.070	0.992	0.048	0.886		0.0593	0.987	0.004	0.000
0.058	0.999	0.063	0.878		0.0546	0.961	0.005	
0.051	0.992	0.062	0.877		0.0538	0.969	0.005	0.000
0.036	0.998	0.053	0.890	0.000	0.0490	0.953	0.004	

0.039	1.005	0.019	0.937		0.0299	1.000	0.000	0.004
0.085	0.999	0.061	0.876		0.0594	0.981	0.003	0.001
0.077	1.003	0.063	0.871		0.0557	0.974	0.003	0.001
0.049	1.005	0.058	0.880	0.000	0.0489	0.973	0.003	0.001
0.043	1.006	0.059	0.877		0.0494	0.966	0.003	0.002
0.057	0.995	0.060	0.876		0.0560	0.977	0.003	0.002
0.076	1.000	0.057	0.875		0.0562	0.994	0.003	0.001
0.065	0.998	0.055	0.874		0.0529	0.994	0.004	0.004
0.060	0.998	0.059	0.900		0.0404	0.981	0.003	0.002
0.026	0.993	0.012	0.948		0.0240	1.019		0.004
0.062	1.002	0.058	0.870		0.0543	0.979	0.003	0.002
0.053	1.001	0.058	0.877		0.0522	0.974	0.004	0.002
0.067	0.999	0.062	0.880		0.0523	0.985	0.003	0.001
0.057	1.000	0.064	0.878		0.0468	0.977	0.003	0.001
0.087	1.000	0.064	0.864		0.0620	0.980	0.004	0.001
0.047	0.996	0.017	0.932		0.0428	1.002	0.000	0.004
0.055	1.000	0.030	0.874		0.0795	0.973	0.002	0.007
0.055	0.997	0.050	0.898		0.0387	0.989	0.004	0.003
0.061	0.997	0.027	0.885		0.0759	0.977	0.003	0.012
0.036	0.994	0.027	0.931		0.0345	0.996	0.001	0.004
0.048	0.986	0.034	0.930		0.0339	1.003	0.001	0.003
0.052	0.987	0.041	0.907		0.0421	0.999	0.002	0.002
0.052	0.989	0.046	0.914		0.0373	0.988	0.003	0.003
0.061	0.993	0.055	0.898		0.0412	0.989	0.003	0.003
0.052	0.989	0.040	0.906		0.0480	0.994	0.001	0.003
0.050	0.989	0.050	0.905		0.0382	0.991	0.003	0.003
0.075	0.987	0.061	0.897		0.0448	0.990	0.004	0.001
0.068	0.988	0.061	0.898		0.0427	0.994	0.004	0.002
0.056	0.989	0.057	0.899		0.0425	0.991	0.004	0.002
0.057	0.992	0.057	0.895		0.0453	0.986	0.004	0.004
0.078	0.988	0.058	0.922		0.0239	0.977	0.004	0.020
0.065	0.983	0.060	0.890		0.0504	0.997	0.004	0.002
0.000	0.983	0.061	0.890		0.0452	1.001	0.003	0.002
0.061	0.988	0.052	0.902		0.0413	0.995	0.003	0.002
0.058	0.989	0.043	0.911		0.0463	0.987	0.003	0.001
0.049	0.984	0.042	0.913		0.0383	0.996	0.002	0.003
0.047	0.984	0.041	0.920		0.0368	0.994	0.002	0.002
0.060	0.992	0.033	0.921		0.0403	0.999	0.001	0.003
0.060	0.995	0.033	0.917		0.0390	1.004	0.001	0.002
0.068	0.992	0.041	0.907		0.0439	0.996	0.002	0.004
0.064	0.991	0.042	0.890		0.0546	0.995	0.003	0.003
0.052	0.986	0.045	0.906		0.0441	0.995	0.003	0.002
0.057	0.992	0.045	0.900		0.0455	0.993	0.004	0.002
0.066	0.985	0.047	0.897		0.0464	1.000	0.004	0.003
0.059	1.001	0.045	0.903		0.0410	0.989	0.003	0.001
0.084	0.995	0.058	0.873		0.0544	0.997	0.003	0.001
0.070	0.993	0.061	0.863		0.0660	0.981	0.005	0.001

0.057	0.990	0.042	0.899	0.0426	0.999	0.003	0.001
0.054	0.993	0.033	0.919	0.0326	1.009	0.001	0.004
0.064	0.989	0.048	0.900	0.0393	1.006	0.002	0.003
0.075	0.995	0.057	0.888	0.0429	1.001	0.003	0.001
0.060	0.996	0.028	0.889	0.0656	0.985	0.003	0.009
0.055	0.992	0.032	0.873	0.0859	0.977	0.002	0.005
0.061	0.982	0.032	0.906	0.0483	1.011	0.002	0.006
0.055	0.986	0.029	0.926	0.0327	1.014	0.001	0.003
0.060	0.983	0.045	0.898	0.0460	1.004	0.004	0.003
0.045	0.987	0.051	0.899	0.0376	1.003	0.003	0.003
0.055	0.989	0.057	0.891	0.0402	1.001	0.003	0.002
0.068	0.986	0.057	0.887	0.0431	1.002	0.003	0.002
0.068	0.988	0.057	0.891	0.0423	1.003	0.003	0.001
0.063	0.985	0.059	0.888	0.0433	1.005	0.004	0.002
0.058	0.985	0.051	0.888	0.0440	1.007	0.004	0.003
0.053	0.990	0.051	0.881	0.0481	1.006	0.004	0.002
0.050	0.985	0.049	0.879	0.0536	1.008	0.003	0.003
0.047	0.985	0.048	0.887	0.0471	1.008	0.004	0.001
0.057	0.990	0.046	0.887	0.0472	1.006	0.004	0.001
0.052	0.983	0.047	0.887	0.0499	1.010	0.004	0.002
0.093	0.979	0.058	0.873	0.0613	1.012	0.003	0.001
0.086	0.983	0.062	0.871	0.0498	1.012	0.003	0.002
0.072	0.974	0.052	0.897	0.0356	1.026	0.003	0.001
0.064	0.983	0.056	0.884	0.0453	1.007	0.003	0.002
0.065	0.982	0.053	0.876	0.0564	1.004	0.003	0.001
0.046	0.986	0.055	0.874	0.0483	1.001	0.004	0.002
0.079	0.983	0.061	0.865	0.0575	1.005	0.003	0.001
0.080	0.983	0.061	0.864	0.0604	1.005	0.004	0.001
0.050	0.982	0.040	0.902	0.0440	1.011	0.001	0.002
0.047	0.982	0.043	0.909	0.0358	1.005	0.003	0.003
0.051	0.980	0.042	0.894	0.0479	1.009	0.003	0.002
0.052	0.977	0.046	0.902	0.0429	1.005	0.004	0.002
0.054	0.982	0.046	0.894	0.0461	1.007	0.003	0.002
0.050	0.980	0.055	0.892	0.0362	1.012	0.003	0.003
0.062	0.978	0.052	0.894	0.0379	1.014	0.004	0.002
0.058	0.983	0.054	0.875	0.0529	1.007	0.004	0.001
0.078	0.988	0.060	0.888	0.0464	0.996	0.004	0.004
0.071	0.978	0.057	0.885	0.0508	0.998	0.004	0.002
0.062	0.984	0.057	0.892	0.0396	1.009	0.003	0.002
0.070	0.979	0.057	0.890	0.0416	1.013	0.004	0.002
0.050	0.982	0.028	0.930	0.0279	0.996	0.003	0.021
0.067	0.986	0.052	0.895	0.0395	1.002	0.003	0.006
0.056	0.981	0.050	0.904	0.0329	1.006	0.004	0.003
0.034	1.001	0.027	0.919	0.0459	0.991	0.002	0.006
0.074	1.002	0.057	0.895	0.0392	0.986	0.004	0.004
0.071	1.000	0.038	0.878	0.0614	0.988	0.003	0.013
0.135	1.022	0.065	0.823	0.0970	0.982	0.002	0.000
0.053	1.002	0.033	0.916	0.0350	1.001	0.001	0.003

0.058	0.997	0.042	0.899		0.0457	0.995	0.002	0.002
0.060	0.991	0.045	0.903		0.0424	0.990	0.003	0.002
0.057	0.994	0.048	0.901		0.0372	0.993	0.003	0.003
0.051	0.985	0.048	0.896		0.0363	0.991	0.004	0.003
0.049	0.986	0.047	0.910		0.0355	0.994	0.004	0.002
0.049	0.996	0.051	0.896		0.0388	0.994	0.004	0.001
0.060	0.986	0.051	0.900		0.0422	1.000	0.003	0.002
0.058	0.992	0.058	0.886		0.0436	0.994	0.004	0.002
0.071	0.979	0.060	0.885		0.0514	1.004	0.004	0.001
0.048	0.984	0.021	0.924		0.0367	1.023	0.001	0.004
0.050	0.991	0.021	0.929		0.0345	1.016	0.000	0.004
0.110	0.992	0.056	0.814		0.1141	1.002	0.002	0.000
0.075	1.004	0.031	0.867	0.000	0.0857	0.978	0.004	0.017
0.067	1.000	0.031	0.855		0.0955	0.980	0.003	0.004
0.038	0.985	0.018	0.935		0.0331	1.020	0.000	0.004
0.048	0.987	0.029	0.917		0.0372	1.018	0.001	0.003
0.049	0.986	0.043	0.910		0.0338	1.006	0.003	0.003
0.049	0.994	0.048	0.903		0.0363	0.994	0.003	0.002
0.053	0.991	0.049	0.903		0.0350	1.000	0.004	0.002
0.029	0.991	0.015	0.940		0.0287	1.022	0.000	0.003
0.068	0.987	0.032	0.870		0.0838	0.988	0.002	0.004
0.076	0.996	0.031	0.871		0.0764	0.989	0.004	0.014
0.052	0.992	0.048	0.904		0.0343	1.002	0.003	0.002
0.053	0.988	0.054	0.895		0.0377	1.004	0.004	0.002
0.053	0.993	0.050	0.899		0.0353	1.001	0.004	0.002
0.048	0.998	0.058	0.877		0.0426	0.997	0.004	0.002
0.094	0.986	0.064	0.873		0.0504	1.009	0.003	0.002
0.073	0.988	0.039	0.913		0.0303	0.996	0.005	0.024
0.074	0.988	0.057	0.891		0.0412	1.004	0.003	0.002
0.118	1.005	0.069	0.723	0.001	0.1572	1.014	0.002	0.002
0.090	0.992	0.039	0.844	0.002	0.0899	0.997	0.004	0.013
0.077	0.984	0.060	0.878		0.0490	1.007	0.004	0.002
0.084	0.983	0.059	0.885		0.0449	1.011	0.004	0.002
0.048	0.988	0.053	0.888		0.0393	1.004	0.003	0.002
0.065	0.981	0.057	0.890		0.0444	1.009	0.004	0.002
0.072	0.988	0.058	0.882		0.0429	1.011	0.004	0.002
0.065	0.982	0.062	0.879		0.0451	1.012	0.003	0.001
0.062	0.989	0.062	0.887		0.0451	1.002	0.003	0.001
0.061	0.995	0.029	0.877		0.0723	0.994	0.004	0.012
0.070	0.990	0.020	0.877		0.0810	1.005	0.001	0.007
0.045	0.984	0.015	0.927		0.0370	1.025	0.001	0.005
0.094	0.983	0.058	0.885		0.0443	1.020	0.004	0.002
0.048	0.979	0.025	0.954		0.0097	1.014	0.004	0.013
0.081	0.990	0.032	0.863	0.000	0.0811	0.993	0.004	0.016
0.089	0.986	0.059	0.873		0.0583	1.006	0.003	0.001
0.083	0.984	0.058	0.868		0.0651	1.005	0.004	0.002
0.076	0.991	0.064	0.861		0.0554	1.003	0.003	0.000
0.048	0.995	0.057	0.863		0.0553	0.994	0.004	0.002

0.057	0.993	0.048	0.882		0.0488	1.001	0.004	0.002
0.073	0.988	0.055	0.884		0.0476	1.009	0.003	0.000
0.065	0.990	0.056	0.882		0.0473	1.002	0.003	0.002
0.068	0.993	0.057	0.878		0.0428	1.006	0.004	0.002
0.065	0.982	0.057	0.883		0.0463	1.008	0.003	0.002
0.066	0.993	0.030	0.860	0.000	0.0843	1.002	0.003	0.007
0.060	0.997	0.068	0.867		0.0441	0.991	0.004	0.001
0.052	0.994	0.053	0.875		0.0506	0.997	0.004	0.002
0.055	1.006	0.022	0.874		0.0761	0.999	0.001	0.008
0.080	0.995	0.022	0.876		0.0900	0.986	0.001	0.009
0.058	0.999	0.022	0.887		0.0682	1.007	0.001	0.006
0.061	1.002	0.026	0.876	0.002	0.0874	0.990	0.000	0.006
0.054	0.979	0.044	0.912		0.0312	1.014	0.003	0.003
0.083	0.977	0.054	0.888		0.0559	1.006	0.004	0.002
0.081	0.972	0.055	0.886		0.0583	1.011	0.004	0.001
0.058	0.983	0.057	0.889		0.0449	0.998	0.003	0.003
0.048	0.976	0.054	0.891		0.0495	0.989	0.003	0.001
0.076	0.980	0.055	0.884		0.0554	0.999	0.004	0.001
0.045	0.984	0.054	0.893		0.0432	0.993	0.003	0.001
0.057	0.984	0.063	0.887		0.0379	0.997	0.005	0.003
0.049	0.983	0.067	0.875		0.0381	1.025	0.002	0.002
0.078	0.978	0.076	0.871		0.0460	1.021	0.002	0.001
0.065	0.990	0.068	0.828	0.000	0.0803	1.003	0.006	0.002
0.039	0.971	0.021	0.943		0.0276	1.023	0.001	0.005
0.036	0.985	0.018	0.941		0.0278	1.022	0.000	0.003
0.050	0.972	0.022	0.937		0.0349	1.028	0.000	0.003
0.080	0.976	0.064	0.882		0.0492	0.998	0.004	0.000
0.060	0.989	0.069	0.873		0.0355	1.016	0.002	0.002
0.097	0.979	0.084	0.859		0.0466	1.023	0.003	0.001
0.060	0.986	0.060	0.860		0.0667	0.996	0.006	
0.050	0.980	0.052	0.902		0.0392	1.002	0.004	0.003
0.076	0.981	0.059	0.880		0.0585	0.997	0.003	0.001
0.060	0.979	0.023	0.928		0.0437	1.020	0.001	0.002
0.045	0.977	0.019	0.939		0.0304	1.026	0.000	0.004
0.065	0.998	0.069	0.831	0.000	0.0746	0.996	0.007	0.000
0.084	0.983	0.065	0.848		0.0723	1.005	0.006	0.000
0.079	0.992	0.065	0.854	0.000	0.0629	0.997	0.006	0.000
0.058	0.986	0.057	0.888		0.0550	0.984	0.003	0.001
0.047	0.990	0.051	0.882		0.0510	0.987	0.004	0.003
0.051	0.992	0.052	0.878		0.0529	0.995	0.004	0.001
0.054	0.992	0.051	0.885		0.0437	1.002	0.003	0.002
0.069	0.994	0.028	0.873		0.0794	0.982	0.003	0.014
0.050	0.980	0.027	0.932		0.0338	1.020	0.001	0.003
0.095	0.979	0.056	0.879		0.0583	1.008	0.003	0.001
0.094	0.991	0.064	0.885		0.0440	1.000	0.004	0.000
0.092	0.975	0.061	0.885		0.0525	1.006	0.003	0.000
0.067	0.975	0.040	0.913		0.0497	1.013	0.002	0.002
0.115	0.974	0.067	0.826		0.0947	1.026	0.001	0.000

0.121	0.977	0.072	0.817		0.0979	1.025	0.001	0.001
0.114	0.976	0.061	0.832		0.0947	1.026	0.002	
0.125	0.979	0.064	0.811		0.1062	1.033	0.002	0.000
0.121	0.975	0.060	0.826		0.1006	1.0280	0.0022	
0.089	0.976	0.062	0.882		0.0411	1.025	0.004	0.001
0.044	0.971	0.026	0.957		0.0147	1.016	0.001	0.008
0.075	0.985	0.045	0.907		0.0257	1.001	0.003	0.028
0.085	0.971	0.056	0.903		0.0366	1.023	0.004	0.003
0.071	0.978	0.051	0.898		0.0360	1.021	0.004	0.003

0.084	0.972	0.066	0.835	0.000	0.0651	1.001	0.008	0.005
0.083	0.973	0.066	0.833	0.000	0.0657	1.000	0.008	0.008
0.101	0.983	0.083	0.833	0.000	0.0668	1.003	0.010	0.007
0.088	0.972	0.074	0.826	0.001	0.0626	1.000	0.009	0.004
0.125	0.968	0.081	0.837	0.002	0.0694	1.007	0.009	0.014
0.093	0.967	0.067	0.853	0.003	0.0589	1.000	0.009	0.014

0.042	0.997	0.052	0.907	0.000	0.0383	0.981	0.003	
0.038	0.992	0.056	0.891	0.000	0.0412	0.989	0.004	
0.034	0.986	0.052	0.902		0.0415	0.985	0.003	
0.037	0.985	0.052	0.903	0.001	0.0414	0.980	0.003	
0.020	0.975	0.046	0.909		0.0392	0.978	0.002	
0.022	0.981	0.045	0.903	0.001	0.0451	0.974	0.002	
0.025	0.993	0.045	0.912	0.001	0.0332	0.974	0.002	
0.029	0.986	0.044	0.917	0.000	0.0334	0.975	0.003	
0.025	0.995	0.047	0.912	0.000	0.0332	0.967	0.003	
0.027	0.993	0.046	0.912	0.000	0.0326	0.972	0.002	
0.022	0.994	0.047	0.907		0.0374	0.965	0.002	
0.023	0.989	0.046	0.905	0.001	0.0374	0.972	0.002	
0.024	0.993	0.047	0.898	0.001	0.0379	0.972	0.003	
0.027	0.985	0.050	0.903	0.001	0.0381	0.968	0.002	
0.025	0.987	0.047	0.913		0.0386	0.970	0.002	
0.033	0.991	0.050	0.901		0.0419	0.976	0.003	
0.041	0.984	0.055	0.895		0.0438	0.987	0.003	
0.037	0.989	0.055	0.895	0.001	0.0424	0.987	0.003	
0.040	0.992	0.055	0.899		0.0399	0.986	0.004	
0.039	0.985	0.089	0.938	0.001	0.0421	0.925	0.002	
0.029	0.990	0.046	0.918		0.0361	0.975	0.002	
0.035	0.997	0.048	0.906	0.001	0.0375	0.984	0.003	
0.046	0.995	0.055	0.897		0.0401	0.984	0.002	
0.037	0.997	0.054	0.894	0.001	0.0439	0.977	0.002	
0.033	1.000	0.051	0.900		0.0403	0.973	0.003	
0.023	0.995	0.047	0.901	0.001	0.0381	0.963	0.004	
0.023	0.990	0.047	0.905		0.0368	0.965	0.002	
0.022	0.993	0.048	0.888		0.0368	0.965	0.003	
0.045	0.993	0.054	0.903	0.000	0.0466	0.981	0.003	0.000
0.041	0.991	0.056	0.895	0.001	0.0425	0.988	0.003	

0.036	0.993	0.051	0.901	0.000	0.0391	0.982	0.002	0.001
0.038	0.992	0.054	0.891	0.000	0.0437	0.983	0.003	0.003
0.037	0.991	0.054	0.898		0.0400	0.984	0.003	0.002
0.035	0.997	0.053	0.907		0.0304	0.983	0.002	
0.024	0.989	0.043	0.912	0.000	0.0365	0.976	0.002	0.001
0.023	0.995	0.045	0.905	0.001	0.0380	0.968	0.001	
0.028	0.980	0.043	0.892	0.000	0.0308	0.972	0.003	0.004
0.026	0.987	0.042	0.907	0.001	0.0388	0.960	0.002	0.018
0.025	0.996	0.043	0.909		0.0410	0.968	0.002	
0.038	0.995	0.052	0.898	0.001	0.0411	0.975	0.003	0.008
0.034	1.001	0.051	0.884	0.000	0.0359	0.970	0.004	
0.035	0.994	0.049	0.906		0.0363	0.984	0.002	0.000
0.033	0.996	0.051	0.900	0.001	0.0382	0.986	0.003	0.000
0.042	0.998	0.050	0.901	0.000	0.0362	0.988	0.002	
0.042	0.999	0.053	0.907		0.0324	0.989	0.003	
0.024	0.992	0.051	0.903	0.001	0.0357	0.970	0.003	0.002
0.033	0.997	0.053	0.890	0.001	0.0450	0.962	0.002	0.012
0.060	1.006	0.065	0.890		0.0373	0.989	0.004	0.000
0.055	1.001	0.061	0.895		0.0323	1.004	0.002	
0.077	0.995	0.065	0.881		0.0420	1.008	0.003	
0.034	0.988	0.051	0.905	0.001	0.0473	0.955	0.001	
0.056	0.992	0.058	0.897		0.0431	0.981	0.001	
0.058	0.991	0.056	0.888	0.000	0.0444	0.988	0.003	
0.069	0.990	0.057	0.890	0.001	0.0466	0.995	0.004	0.001
0.039	0.976	0.045	0.918	0.001	0.0599	0.961	0.003	
0.042	0.971	0.047	0.911	0.001	0.0701	0.957	0.003	
0.042	0.986	0.046	0.911	0.000	0.0459	0.971	0.003	
0.063	0.992	0.057	0.890	0.000	0.0439	0.998	0.003	
0.056	0.991	0.057	0.891	0.001	0.0476	0.974	0.001	
0.046	0.993	0.055	0.893	0.001	0.0458	0.967	0.001	
0.042	0.991	0.044	0.913		0.0354	0.982	0.002	
0.045	0.990	0.046	0.918	0.000	0.0328	0.985	0.002	
0.042	0.993	0.046	0.910	0.000	0.0403	0.969	0.002	
0.047	0.997	0.049	0.907	0.001	0.0342	0.988	0.001	0.000
0.042	0.988	0.044	0.915	0.001	0.0406	0.972	0.002	
0.038	0.994	0.044	0.920	0.001	0.0379	0.973	0.003	0.001
0.041	0.983	0.044	0.917	0.001	0.0370	0.984	0.003	0.000
0.042	0.986	0.044	0.916	0.000	0.0342	0.995	0.002	0.001
0.046	0.992	0.052	0.904	0.001	0.0405	0.973	0.002	
0.041	0.988	0.041	0.914	0.001	0.0357	0.994	0.002	
0.043	0.986	0.046	0.911	0.001	0.0372	0.988	0.001	
0.061	0.993	0.052	0.899	0.001	0.0443	0.990	0.002	0.000
0.043	0.987	0.058	0.896	0.001	0.0506	0.968	0.001	
0.052	0.993	0.048	0.897	0.000	0.0411	0.999	0.003	0.001
0.050	0.991	0.047	0.905	0.001	0.0427	0.990	0.003	
0.042	0.994	0.064	0.905	0.000	0.0406	0.971	0.003	
0.041	0.989	0.051	0.900		0.0423	0.972	0.001	
0.065	0.995	0.053	0.893	0.000	0.0456	0.992	0.002	

0.043	0.992	0.058	0.895	0.001	0.0427	0.965	0.002	
0.045	0.991	0.048	0.907	0.001	0.0330	0.991	0.003	
0.053	0.991	0.055	0.892		0.0454	0.978	0.002	
0.058	1.003	0.053	0.890	0.002	0.0510	0.976	0.003	
0.055	1.007	0.056	0.880	0.000	0.0442	0.978	0.001	
0.063	1.003	0.057	0.891	0.001	0.0382	0.989	0.002	
0.046	0.995	0.047	0.905	0.000	0.0399	0.974	0.000	
0.046	1.000	0.051	0.894	0.000	0.0437	0.973	0.002	
0.044	0.999	0.052	0.892	0.000	0.0446	0.972	0.001	
0.053	0.996	0.051	0.890	0.001	0.0448	0.979	0.002	
0.049	0.999	0.053	0.891	0.001	0.0456	0.975	0.002	
0.053	0.995	0.057	0.896	0.001	0.0346	0.996	0.003	
0.056	1.001	0.056	0.892	0.001	0.0419	0.973	0.000	
0.059	1.000	0.056	0.888		0.0463	0.976	0.001	
0.056	0.993	0.059	0.882	0.004	0.0492	0.970	0.001	
0.061	0.995	0.055	0.891	0.001	0.0438	0.980	0.001	
0.067	1.010	0.057	0.878		0.0429	0.992	0.003	
0.076	0.998	0.055	0.871	0.001	0.0579	0.993	0.003	
0.068	1.002	0.055	0.884	0.000	0.0483	0.991	0.003	0.001
0.073	1.004	0.060	0.886	0.001	0.0435	0.991	0.002	
0.060	0.997	0.054	0.887	0.000	0.0469	0.980	0.001	
0.057	1.003	0.057	0.884	0.002	0.0430	0.980	0.003	
0.047	1.001	0.055	0.888	0.001	0.0443	0.969	0.001	
0.062	1.000	0.056	0.899	0.000	0.0361	0.986	0.002	
0.057	1.003	0.057	0.880	0.001	0.0492	0.968	0.001	
0.051	0.996	0.054	0.893	0.001	0.0459	0.975	0.002	
0.049	0.998	0.055	0.895	0.000	0.0425	0.971	0.002	
0.058	0.997	0.058	0.887	0.000	0.0477	0.975	0.003	
0.053	0.998	0.055	0.889	0.001	0.0486	0.961	0.001	
0.056	0.992	0.052	0.904	0.001	0.0368	0.988	0.003	
0.050	1.002	0.052	0.897		0.0444	0.966	0.001	
0.063	1.000	0.061	0.887	0.001	0.0444	0.978	0.003	0.000
0.042	1.005	0.050	0.890	0.001	0.0459	0.961	0.002	
0.056	1.002	0.054	0.884	0.000	0.0446	0.985	0.002	
0.058	0.986	0.054	0.898	0.002	0.0447	0.983	0.004	
0.056	0.994	0.053	0.888	0.001	0.0516	0.978	0.002	
0.033	1.001	0.046	0.894	0.000	0.0463	0.965	0.002	
0.056	1.001	0.053	0.886	0.000	0.0487	0.979	0.002	
0.063	0.990	0.053	0.892	0.001	0.0487	0.988	0.002	
0.061	0.996	0.054	0.892	0.002	0.0484	0.974	0.001	
0.051	1.001	0.058	0.884	0.000	0.0489	0.967	0.001	
0.051	1.001	0.055	0.888	0.000	0.0442	0.973	0.002	
0.069	1.017	0.056	0.885	0.001	0.0462	0.972	0.002	
0.073	0.996	0.059	0.885	0.001	0.0461	0.990	0.002	0.000
0.051	0.998	0.054	0.897	0.000	0.0437	0.971	0.002	
0.062	1.006	0.055	0.884	0.001	0.0478	0.969	0.002	
0.057	0.999	0.059	0.893		0.0394	0.983	0.002	0.001
0.071	0.995	0.056	0.895	0.001	0.0417	0.991	0.003	

0.050	0.997	0.047	0.913	0.000	0.0424	0.977	0.003	0.001
0.047	0.998	0.050	0.915		0.0368	0.975	0.003	
0.051	1.005	0.057	0.890	0.001	0.0499	0.949	0.002	
0.067	0.995	0.063	0.882	0.002	0.0692	0.958	0.002	
0.073	1.011	0.066	0.879	0.001	0.0420	0.983	0.003	0.001
0.052	1.005	0.054	0.897	0.001	0.0457	0.960	0.002	
0.055	1.006	0.055	0.905	0.000	0.0477	0.949	0.001	
0.058	0.995	0.056	0.895	0.001	0.0443	0.972	0.002	
0.054	1.000	0.055	0.893	0.001	0.0448	0.969	0.001	
0.060	1.001	0.055	0.899	0.000	0.0410	0.974	0.003	
0.058	0.996	0.063	0.872	0.001	0.0533	0.972		
0.060	1.001	0.059	0.883	0.001	0.0513	0.966	0.002	
0.041	1.003	0.055	0.889		0.0514	0.943	0.000	
0.044	1.005	0.044	0.915		0.0377	0.969	0.003	
0.045	1.002	0.043	0.913	0.001	0.0386	0.972	0.002	
0.047	0.995	0.042	0.915	0.000	0.0387	0.979	0.002	
0.051	0.996	0.060	0.886	0.001	0.0558	0.955	0.002	
0.069	1.006	0.059	0.883	0.001	0.0608	0.964	0.003	
0.051	1.000	0.048	0.913	0.001	0.0505	0.957	0.003	
0.054	0.999	0.048	0.909	0.001	0.0420	0.972	0.002	
0.051	1.003	0.044	0.913	0.000	0.0391	0.972	0.003	
0.046	1.016	0.057	0.890	0.000	0.0470	0.945	0.001	
0.071	0.995	0.066	0.870	0.001	0.0618	0.970	0.002	
0.057	1.000	0.054	0.890	0.001	0.0540	0.955	0.002	
0.066	1.008	0.063	0.877	0.001	0.0598	0.948	0.001	
0.062	0.996	0.064	0.872	0.001	0.0581	0.969	0.001	
0.063	1.002	0.063	0.880	0.001	0.0501	0.975	0.002	
0.066	1.001	0.061	0.891	0.001	0.0465	0.972	0.003	
0.063	1.012	0.055	0.892	0.001	0.0456	0.974	0.003	0.001
0.062	1.000	0.057	0.896	0.000	0.0511	0.958	0.001	
0.053	0.994	0.055	0.890	0.001	0.0530	0.966	0.002	
0.050	0.995	0.055	0.892	0.001	0.0554	0.948	0.001	
0.042	0.995	0.055	0.886	0.001	0.0522	0.951	0.001	
0.042	0.989	0.056	0.891	0.001	0.0530	0.956		
0.043	0.995	0.055	0.887	0.001	0.0534	0.956		
0.043	0.998	0.055	0.889	0.001	0.0525	0.951		
0.045	1.003	0.055	0.879	0.001	0.0513	0.961	0.001	
0.052	0.996	0.056	0.881	0.002	0.0528	0.967	0.001	
0.051	1.001	0.054	0.877	0.001	0.0525	0.972	0.000	
0.054	1.003	0.054	0.891	0.000	0.0470	0.964	0.002	
0.053	1.001	0.054	0.891	0.001	0.0454	0.970	0.001	
0.063	0.998	0.054	0.890	0.001	0.0442	0.991	0.003	0.000
0.071	1.004	0.058	0.889	0.000	0.0454	0.990	0.004	
0.068	1.006	0.068	0.871	0.012	0.0483	0.981	0.004	0.001
0.085	1.002	0.067	0.881		0.0435	0.998	0.003	
0.091	1.004	0.075	0.868		0.0422	1.005	0.003	
0.062	1.007	0.053	0.894	0.000	0.0461	0.981	0.003	
0.066	1.000	0.058	0.897	0.001	0.0406	0.984	0.003	

0.062	0.997	0.055	0.899	0.001	0.0392	0.989	0.002	0.000
0.063	0.997	0.054	0.899	0.000	0.0394	0.990	0.002	
0.061	0.993	0.053	0.901		0.0381	0.992	0.002	
0.051	0.994	0.051	0.902	0.000	0.0373	0.992	0.002	
0.060	0.996	0.057	0.887	0.001	0.0505	0.978	0.002	
0.063	1.001	0.055	0.891	0.001	0.0507	0.972	0.002	
0.056	1.012	0.049	0.920		0.0386	0.959	0.003	
0.064	0.998	0.055	0.893	0.001	0.0429	0.996	0.002	
0.049	1.000	0.043	0.922	0.001	0.0319	0.985	0.002	0.001
0.057	0.998	0.057	0.919		0.0211	0.987	0.000	
0.048	0.992	0.048	0.902	0.000	0.0430	0.979	0.003	
0.049	0.996	0.038	0.918		0.0383	0.992	0.003	0.001
0.052	0.999	0.046	0.906	0.001	0.0373	0.991	0.003	0.001
0.048	0.997	0.044	0.928	0.001	0.0335	0.983	0.003	
0.043	1.005	0.040	0.933		0.0329	0.970	0.003	0.000
0.045	1.000	0.047	0.910	0.000	0.0354	0.975	0.002	
0.047	0.982	0.046	0.909	0.001	0.0372	0.994	0.001	
0.064	0.991	0.057	0.892		0.0450	0.999		
0.068	1.021	0.059	0.869	0.000	0.0377	0.994	0.002	0.000
0.059	1.014	0.059	0.875	0.000	0.0371	0.994	0.002	
0.054	1.015	0.054	0.879	0.001	0.0424	0.976	0.002	0.000
0.057	1.012	0.054	0.877	0.000	0.0444	0.975	0.002	
0.067	1.007	0.062	0.872	0.001	0.0476	0.977	0.003	0.002
0.058	1.003	0.066	0.864	0.000	0.0502	0.965	0.002	0.009
0.053	1.008	0.059	0.866	0.001	0.0477	0.970	0.001	
0.054	1.011	0.056	0.870	0.001	0.0465	0.978	0.003	0.004
0.062	1.016	0.059	0.862	0.001	0.0513	0.974	0.001	0.001
0.051	0.999	0.056	0.874	0.001	0.0510	0.961	0.001	0.006
0.049	0.995	0.057	0.876	0.001	0.0503	0.959	0.001	0.014
0.054	1.001	0.057	0.879	0.002	0.0501	0.963	0.001	0.004
0.048	1.013	0.050	0.896		0.0339	0.979	0.003	0.002
0.038	1.002	0.044	0.897	0.001	0.0425	0.973	0.001	0.002
0.047	1.010	0.048	0.886	0.001	0.0452	0.974	0.001	0.000
0.049	1.008	0.052	0.873	0.000	0.0482	0.962	0.002	0.018
0.045	0.998	0.050	0.877	0.001	0.0512	0.965	0.001	0.019
0.051	1.007	0.051	0.872	0.000	0.0512	0.980	0.002	
0.049	1.003	0.053	0.880	0.001	0.0514	0.975	0.001	0.001
0.057	1.004	0.062	0.864	0.001	0.0644	0.954	0.001	
0.051	1.004	0.046	0.890		0.0476	0.980	0.001	0.001
0.055	1.000	0.059	0.879	0.001	0.0583	0.957	0.002	0.003
0.059	1.005	0.059	0.872	0.001	0.0606	0.962	0.001	
0.058	1.013	0.057	0.878	0.001	0.0545	0.964	0.002	
0.062	1.008	0.056	0.883	0.001	0.0446	0.981	0.003	0.001
0.070	1.007	0.057	0.865	0.001	0.0566	0.978	0.003	0.000
0.064	1.016	0.055	0.868	0.001	0.0410	0.994	0.003	0.000
0.057	1.011	0.057	0.880		0.0357	0.993	0.002	
0.048	0.998	0.048	0.898	0.001	0.0433	0.972	0.002	
0.059	0.994	0.058	0.904		0.0275	0.990	0.003	0.000

0.055	1.013	0.056	0.891		0.0340	0.974	0.002	
0.095	1.002	0.100	0.865		0.0254	0.987	0.003	0.001
0.053	1.000	0.049	0.905	0.001	0.0372	0.975	0.002	
0.055	1.009	0.055	0.893	0.000	0.0361	0.980	0.003	0.000
0.040	1.004	0.046	0.901	0.000	0.0429	0.963	0.001	
0.040	1.004	0.046	0.905	0.001	0.0420	0.961	0.001	
0.056	1.003	0.054	0.904	0.000	0.0303	0.979	0.001	
0.038	1.003	0.043	0.905	0.001	0.0374	0.968	0.001	0.000
0.039	1.012	0.045	0.891		0.0435	0.962	0.001	
0.038	0.999	0.044	0.901	0.001	0.0410	0.968	0.002	
0.034	0.999	0.048	0.900	0.001	0.0426	0.962	0.001	
0.038	1.006	0.048	0.905	0.001	0.0412	0.955	0.002	
0.041	0.995	0.051	0.904	0.000	0.0399	0.967	0.001	
0.049	0.998	0.055	0.897	0.001	0.0377	0.985	0.002	
0.063	1.004	0.057	0.903	0.000	0.0362	0.982	0.002	0.001
0.056	1.012	0.054	0.895	0.000	0.0394	0.976	0.002	0.002
0.068	1.010	0.055	0.887		0.0472	0.980	0.004	0.000
0.057	1.011	0.053	0.891	0.000	0.0466	0.971	0.002	0.000
0.065	0.997	0.055	0.879	0.001	0.0492	0.986	0.003	
0.054	0.997	0.054	0.892	0.001	0.0473	0.977	0.002	
0.062	0.996	0.052	0.897	0.000	0.0509	0.976	0.002	
0.033	0.982	0.044	0.924	0.001	0.0475	0.968	0.003	
0.035	0.994	0.052	0.909	0.001	0.0336	0.978	0.003	
0.035	0.997	0.041	0.920	0.001	0.0384	0.967	0.002	
0.027	0.991	0.052	0.900	0.001	0.0418	0.956	0.000	
0.061	0.999	0.051	0.885	0.001	0.0470	0.989	0.002	
0.063	0.999	0.057	0.879	0.001	0.0482	0.983	0.001	
0.055	1.000	0.056	0.891	0.000	0.0414	0.985	0.002	
0.051	0.993	0.054	0.892	0.001	0.0459	0.972	0.002	
0.051	0.994	0.056	0.897	0.001	0.0364	0.990	0.002	
0.049	0.994	0.055	0.893	0.001	0.0456	0.974		
0.040	0.992	0.053	0.899	0.000	0.0473	0.963	0.000	
0.037	0.999	0.054	0.894	0.001	0.0423	0.971	0.002	
0.032	1.002	0.055	0.891	0.001	0.0489	0.941	0.000	
0.049	0.999	0.053	0.898	0.000	0.0419	0.977	0.002	
0.044	0.996	0.056	0.889	0.000	0.0464	0.976	0.002	
0.049	0.994	0.054	0.891	0.001	0.0484	0.973	0.002	
0.028	0.994	0.049	0.896	0.001	0.0518	0.947	0.001	
0.029	0.993	0.042	0.908	0.001	0.0430	0.972		
0.035	1.003	0.071	0.895	0.002	0.0360	0.962	0.002	
0.034	0.998	0.050	0.899	0.001	0.0463	0.960	0.001	
0.028	0.986	0.043	0.917		0.0359	0.983	0.002	
0.046	0.984	0.054	0.889		0.0480	0.980	0.001	
0.048	0.993	0.058	0.886	0.002	0.0518	0.968	0.002	
0.052	0.994	0.057	0.888	0.001	0.0491	0.972	0.001	
0.046	0.990	0.053	0.897	0.001	0.0458	0.970	0.002	
0.045	0.991	0.052	0.900	0.001	0.0438	0.971	0.001	

0.058	0.992	0.057	0.898	0.001	0.0397	0.990	0.002	0.001
0.046	0.990	0.054	0.896	0.001	0.0451	0.976	0.002	
0.054	0.992	0.059	0.890	0.000	0.0437	0.988	0.003	0.000
0.067	0.986	0.053	0.890		0.0527	0.985	0.002	0.001
0.061	0.993	0.048	0.875	0.001	0.0641	0.971	0.003	
0.055	0.986	0.049	0.878	0.001	0.0551	0.979	0.002	0.001
0.041	0.987	0.049	0.921	0.001	0.0398	0.969	0.002	
0.040	0.986	0.057	0.887	0.000	0.0587	0.946	0.001	
0.036	0.995	0.049	0.910	0.001	0.0434	0.957	0.001	
0.040	0.989	0.054	0.892	0.000	0.0556	0.946	0.000	
0.045	0.990	0.049	0.907	0.000	0.0404	0.981	0.002	
0.068	0.986	0.054	0.892	0.001	0.0508	0.984	0.003	
0.059	1.002	0.054	0.894	0.001	0.0492	0.967	0.003	
0.054	1.000	0.054	0.892	0.001	0.0429	0.979	0.002	
0.055	0.993	0.054	0.907	0.001	0.0392	0.976	0.003	
0.062	0.998	0.063	0.889	0.001	0.0516	0.957	0.002	
0.050	0.998	0.056	0.904	0.001	0.0475	0.953	0.002	
0.059	0.995	0.063	0.882	0.001	0.0562	0.961	0.001	
0.055	0.987	0.058	0.890	0.001	0.0524	0.964	0.002	
0.035	0.987	0.059	0.892	0.000	0.0527	0.942	0.000	
0.062	0.984	0.062	0.887	0.000	0.0523	0.975	0.002	
0.047	0.984	0.048	0.909	0.001	0.0440	0.983	0.001	
0.059	0.985	0.058	0.896	0.001	0.0588	0.965	0.002	
0.058	0.980	0.058	0.892	0.001	0.0618	0.974	0.003	
0.044	0.984	0.054	0.901	0.001	0.0547	0.962	0.001	
0.037	0.991	0.046	0.923	0.001	0.0413	0.971	0.003	
0.042	0.989	0.051	0.912	0.001	0.0465	0.961	0.001	
0.044	0.993	0.051	0.907	0.000	0.0436	0.964	0.001	
0.041	0.984	0.059	0.899	0.001	0.0387	0.968	0.003	
0.057	0.983	0.059	0.892	0.001	0.0484	0.984	0.002	
0.054	0.987	0.057	0.902	0.001	0.0391	0.990	0.001	
0.054	0.985	0.053	0.899	0.001	0.0463	0.987	0.003	
0.059	0.987	0.049	0.898	0.000	0.0476	0.989	0.003	
0.053	0.987	0.047	0.889	0.000	0.0477	0.995	0.002	0.000
0.057	0.988	0.050	0.858	0.001	0.0670	0.973	0.004	0.001
0.063	1.002	0.058	0.892	0.000	0.0475	0.969	0.002	
0.060	1.002	0.066	0.866	0.001	0.0566	0.960	0.001	
0.053	1.003	0.055	0.890	0.001	0.0487	0.968	0.002	
0.048	1.006	0.048	0.893	0.001	0.0573	0.954	0.002	
0.070	1.006	0.053	0.895		0.0406	0.997	0.003	
0.067	1.004	0.054	0.895	0.001	0.0467	0.991	0.003	
0.048	1.013	0.049	0.917	0.001	0.0361	0.979	0.002	0.001
0.033	0.995	0.047	0.902	0.001	0.0513	0.946		
0.036	0.989	0.049	0.900	0.001	0.0509	0.945	0.000	
0.032	1.000	0.044	0.910	0.002	0.0465	0.944	0.000	
0.036	0.996	0.043	0.912	0.001	0.0431	0.958	0.000	
0.056	1.005	0.064	0.872	0.001	0.0543	0.959	0.000	
0.057	1.002	0.063	0.882	0.001	0.0542	0.950		
0.048	1.007	0.057	0.892	0.000	0.0502	0.956	0.001	
0.054	0.996	0.057	0.891	0.001	0.0520	0.965	0.000	
0.051	0.995	0.055	0.895	0.001	0.0650	0.957	0.002	

0.051	0.999	0.054	0.886	0.001	0.0546	0.964	0.001	
0.049	1.001	0.055	0.883	0.002	0.0623	0.955	0.001	
0.051	0.998	0.059	0.891	0.001	0.0652	0.941	0.001	
0.044	1.006	0.057	0.891	0.001	0.0569	0.939	0.001	
0.031	0.997	0.048	0.901	0.001	0.0403	0.960	0.001	
0.041	1.003	0.051	0.899	0.001	0.0426	0.962	0.001	
0.031	0.996	0.049	0.909	0.000	0.0434	0.944	0.001	
0.051	0.997	0.058	0.888	0.001	0.0529	0.957	0.001	
0.039	1.001	0.042	0.914	0.001	0.0389	0.964	0.002	
0.035	1.000	0.043	0.909	0.001	0.0414	0.968	0.002	
0.035	1.004	0.044	0.906	0.000	0.0489	0.953	0.001	
0.039	1.005	0.042	0.909	0.001	0.0436	0.960	0.003	
0.051	0.994	0.047	0.906	0.000	0.0518	0.970	0.001	
0.050	1.001	0.050	0.899	0.001	0.0528	0.956	0.002	
0.042	0.978	0.049	0.888	0.002	0.1163	0.934	0.001	
0.047	1.007	0.049	0.899	0.001	0.0516	0.953	0.001	
0.054	0.998	0.053	0.889	0.001	0.0514	0.967	0.000	
0.055	1.001	0.053	0.894	0.001	0.0525	0.962	0.002	
0.053	1.007	0.056	0.897	0.001	0.0504	0.950	0.002	
0.061	1.007	0.058	0.896	0.000	0.0467	0.964	0.002	
0.069	1.015	0.053	0.896		0.0546	0.966	0.004	0.000
0.066	1.012	0.054	0.899	0.000	0.0470	0.981	0.003	
0.088	1.001	0.069	0.882	0.001	0.0455	0.993	0.003	
0.075	1.001	0.052	0.890	0.001	0.0478	1.001	0.003	0.000
0.071	1.002	0.053	0.894	0.000	0.0464	0.991	0.003	
0.058	1.008	0.048	0.908	0.001	0.0427	0.979	0.003	
0.064	1.002	0.052	0.899		0.0482	0.977	0.003	
0.046	1.004	0.042	0.910		0.0434	0.971	0.002	
0.043	1.011	0.042	0.917	0.000	0.0407	0.960	0.003	
0.047	1.013	0.044	0.890	0.001	0.0567	0.943	0.002	
0.048	1.001	0.045	0.859	0.001	0.0611	0.962	0.002	0.001
0.058	1.006	0.047	0.888	0.001	0.0611	0.958	0.003	
0.044	1.007	0.042	0.915	0.000	0.0405	0.960	0.003	0.000
0.050	1.009	0.058	0.900	0.001	0.0483	0.960	0.003	
0.046	1.009	0.042	0.912	0.000	0.0409	0.972	0.003	
0.056	1.074	0.169	0.820	0.015	0.0373	0.873	0.003	0.001
0.053	1.003	0.052	0.903	0.001	0.0424	0.965	0.002	
0.046	0.997	0.048	0.902	0.001	0.0421	0.973	0.002	
0.045	1.000	0.041	0.928	0.000	0.0344	0.970	0.003	
0.036	1.006	0.036	0.919	0.000	0.0383	0.965	0.003	
0.048	1.002	0.038	0.921	0.000	0.0317	0.992	0.004	
0.036	1.002	0.036	0.921	0.000	0.0383	0.976	0.002	
0.054	0.998	0.055	0.904	0.001	0.0478	0.963	0.003	
0.047	1.001	0.047	0.908		0.0359	0.987	0.003	0.000
0.050	1.002	0.046	0.905	0.001	0.0434	0.978	0.002	
0.038	1.008	0.039	0.925		0.0322	0.971	0.003	
0.040	1.005	0.043	0.906	0.001	0.0411	0.966	0.003	
0.044	0.993	0.051	0.895	0.001	0.0416	0.980	0.002	

0.037	1.004	0.044	0.910	0.000	0.0441	0.954	0.002	
0.063	1.004	0.057	0.886	0.001	0.0560	0.966	0.003	
0.048	0.999	0.047	0.904		0.0443	0.975	0.003	
0.058	0.999	0.055	0.895		0.0573	0.976	0.004	0.001
0.040	1.008	0.043	0.912	0.000	0.0451	0.957	0.002	
0.034	1.009	0.049	0.887	0.002	0.0510	0.953	0.002	
0.046	1.008	0.053	0.883	0.001	0.0526	0.962	0.002	
0.049	1.011	0.052	0.876	0.001	0.0535	0.969	0.001	
0.059	1.008	0.057	0.888	0.000	0.0609	0.952	0.002	
0.057	1.007	0.051	0.892	0.000	0.0631	0.955	0.002	
0.049	1.007	0.052	0.865	0.000	0.0623	0.958	0.002	
0.050	1.005	0.043	0.895	0.000	0.0497	0.974	0.003	0.001
0.060	1.008	0.050	0.899	0.001	0.0526	0.968	0.003	
0.060	1.012	0.051	0.900	0.001	0.0416	0.968	0.003	
0.052	1.011	0.052	0.902	0.001	0.0389	0.965	0.003	
0.060	1.008	0.043	0.909	0.001	0.0442	0.971	0.003	
0.051	1.004	0.053	0.902	0.000	0.0378	0.981	0.003	
0.057	1.006	0.047	0.890		0.0470	0.982	0.002	
0.052	0.993	0.050	0.906	0.000	0.0368	0.985	0.003	
0.060	1.005	0.052	0.902	0.000	0.0420	0.976	0.003	0.001
0.057	0.996	0.053	0.892	0.000	0.0406	0.995	0.004	
0.054	0.996	0.054	0.888	0.001	0.0492	0.974	0.001	
0.034	1.008	0.046	0.899	0.000	0.0454	0.948	0.001	
0.053	1.004	0.053	0.912		0.0378	0.970	0.002	
0.043	1.000	0.051	0.894	0.000	0.0495	0.956	0.001	
0.050	1.003	0.048	0.893	0.001	0.0458	0.974	0.001	
0.042	1.001	0.045	0.915	0.000	0.0427	0.962	0.002	
0.045	1.012	0.062	0.905	0.000	0.0468	0.935	0.002	
0.049	0.999	0.049	0.894	0.001	0.0453	0.972	0.001	
0.034	0.996	0.039	0.921	0.000	0.0369	0.964	0.002	
0.049	1.007	0.048	0.904	0.001	0.0461	0.954	0.001	
0.047	1.010	0.049	0.908		0.0469	0.951	0.001	
0.054	1.005	0.047	0.892	0.001	0.0483	0.972	0.002	
0.045	1.003	0.038	0.917	0.001	0.0378	0.968	0.003	
0.055	1.014	0.046	0.910	0.001	0.0464	0.957	0.003	0.001
0.045	1.012	0.039	0.934		0.0301	0.965	0.003	
0.053	0.999	0.045	0.907	0.001	0.0338	0.996	0.004	0.001
0.055	1.006	0.042	0.919	0.000	0.0280	0.991	0.004	0.001
0.053	1.005	0.043	0.919	0.000	0.0341	0.975	0.003	
0.045	0.995	0.043	0.917		0.0349	0.983	0.004	
0.048	0.998	0.043	0.905		0.0436	0.972	0.002	
0.059	1.015	0.047	0.898	0.001	0.0408	0.986	0.004	
0.046	0.990	0.041	0.906		0.0415	0.992	0.004	0.000
0.055	1.005	0.041	0.898		0.0429	0.986	0.004	
0.050	1.003	0.041	0.909		0.0384	0.986	0.005	0.000
0.046	1.001	0.039	0.906		0.0388	0.984	0.004	

0.061	0.996	0.045	0.890	0.000	0.0575	0.986	0.005	0.000
0.049	1.009	0.048	0.867	0.001	0.0564	0.976	0.004	0.001
0.053	1.007	0.051	0.876	0.001	0.0525	0.976	0.004	
0.032	1.005	0.050	0.889	0.000	0.0496	0.969	0.002	
0.033	1.005	0.050	0.892	0.000	0.0455	0.969	0.002	
0.034	1.006	0.052	0.889	0.001	0.0491	0.969	0.002	
0.034	1.008	0.052	0.890	0.001	0.0488	0.964	0.002	
0.030	1.004	0.053	0.891		0.0492	0.967	0.002	
0.035	1.007	0.048	0.898	0.001	0.0427	0.969	0.002	
0.033	1.002	0.041	0.923		0.0272	0.965	0.003	0.001
0.030	1.011	0.039	0.918		0.0301	0.965	0.002	
0.033	1.011	0.038	0.915	0.000	0.0310	0.970	0.004	
0.028	1.002	0.040	0.921	0.001	0.0322	0.973	0.003	
0.033	1.007	0.047	0.902	0.001	0.0440	0.973	0.004	
0.034	1.006	0.043	0.907	0.001	0.0387	0.969	0.003	
0.025	1.002	0.040	0.905	0.001	0.0372	0.963	0.001	
0.025	1.002	0.042	0.910	0.000	0.0359	0.963	0.001	
0.029	1.007	0.043	0.893	0.001	0.0385	0.975	0.002	
0.033	1.004	0.043	0.897	0.001	0.0393	0.970	0.003	
0.041	1.007	0.049	0.894	0.001	0.0397	0.973	0.003	
0.044	1.010	0.049	0.880	0.000	0.0478	0.980	0.002	
0.045	1.007	0.049	0.881	0.000	0.0522	0.973	0.004	0.000
0.053	1.005	0.048	0.877	0.001	0.0541	0.973	0.004	
0.028	0.987	0.047	0.871	0.000	0.0600	0.963	0.004	
0.049	0.994	0.054	0.881	0.016	0.0635	0.960	0.005	
0.030	0.991	0.048	0.868	0.000	0.0603	0.959	0.003	
0.039	0.997	0.050	0.871	0.001	0.0557	0.975	0.003	0.000
0.050	0.992	0.049	0.876		0.0586	0.982	0.004	
0.057	1.003	0.048	0.878	0.001	0.0516	0.976	0.005	0.003
0.042	0.994	0.042	0.900	0.000	0.0434	0.976	0.005	
0.041	1.000	0.038	0.908		0.0390	0.983	0.005	0.001
0.048	1.002	0.041	0.905		0.0419	0.978	0.004	0.001
0.045	1.003	0.042	0.911		0.0400	0.974	0.004	
0.035	0.998	0.042	0.869	0.000	0.0465	0.970	0.004	0.001
0.054	1.009	0.041	0.903	0.001	0.0385	0.983	0.005	0.000
0.068	1.004	0.051	0.900		0.0383	1.000	0.004	
0.061	1.004	0.046	0.909		0.0300	0.997	0.002	0.000
0.037	1.007	0.050	0.895		0.0435	0.964	0.003	
0.049	1.005	0.042	0.901	0.000	0.0430	0.985	0.005	
0.048	0.984	0.047	0.845	0.064	0.0559	0.946	0.006	
0.054	1.003	0.047	0.872	0.001	0.0554	0.980	0.004	
0.051	0.995	0.052	0.894		0.0444	0.981	0.002	
0.044	1.001	0.053	0.890		0.0432	0.974	0.003	
0.041	1.003	0.049	0.890	0.000	0.0437	0.978	0.002	
0.044	1.008	0.048	0.884	0.000	0.0448	0.977	0.003	
0.037	1.004	0.044	0.890		0.0420	0.975	0.003	
0.039	0.996	0.047	0.895	0.001	0.0448	0.977	0.003	
0.043	0.992	0.047	0.898	0.001	0.0441	0.978	0.003	

0.044	0.993	0.048	0.894	0.000	0.0454	0.978	0.003
0.040	0.992	0.051	0.889		0.0505	0.972	0.002
0.043	0.999	0.049	0.893	0.001	0.0470	0.966	0.003
0.045	0.995	0.052	0.894	0.001	0.0474	0.969	0.002
0.036	0.998	0.048	0.891	0.000	0.0464	0.972	0.003
0.033	0.998	0.045	0.899	0.000	0.0448	0.961	0.002
0.045	1.001	0.052	0.879	0.001	0.0522	0.976	0.002
0.040	0.998	0.052	0.892		0.0498	0.970	0.002
0.046	0.999	0.052	0.890		0.0479	0.973	0.003
0.039	0.996	0.050	0.897		0.0455	0.974	0.003
0.042	1.004	0.051	0.886	0.000	0.0431	0.979	0.001
0.046	0.998	0.053	0.890		0.0436	0.984	0.002
0.050	0.999	0.051	0.885		0.0489	0.981	0.003
0.057	1.008	0.048	0.875	0.001	0.0525	0.974	0.003
0.049	1.005	0.051	0.891	0.001	0.0489	0.966	0.004
0.053	1.011	0.049	0.879		0.0478	0.977	0.003
0.055	1.008	0.053	0.889	0.001	0.0447	0.973	0.003
0.049	1.008	0.052	0.894	0.001	0.0445	0.967	0.002
0.040	1.004	0.051	0.893	0.000	0.0420	0.975	0.002
0.036	1.008	0.049	0.897		0.0388	0.970	0.003
0.036	1.001	0.049	0.898	0.001	0.0446	0.970	0.002
0.043	1.011	0.049	0.890	0.000	0.0420	0.974	0.002
0.030	1.005	0.046	0.899	0.000	0.0396	0.968	0.003
0.026	1.003	0.045	0.903	0.001	0.0383	0.962	0.001
0.044	1.005	0.049	0.896		0.0435	0.972	0.002
0.041	1.008	0.049	0.893	0.000	0.0441	0.971	0.002
0.039	1.002	0.049	0.891	0.001	0.0458	0.973	0.003
0.046	1.008	0.048	0.903	0.000	0.0428	0.963	0.001
0.044	1.008	0.048	0.894		0.0406	0.972	0.003
0.047	1.001	0.049	0.896	0.001	0.0457	0.973	0.002
0.051	1.011	0.048	0.890		0.0422	0.974	0.003
0.045	1.005	0.049	0.897		0.0396	0.977	0.003
0.047	1.006	0.048	0.892	0.000	0.0412	0.976	0.002
0.053	1.005	0.052	0.885	0.000	0.0459	0.977	0.002
0.052	1.013	0.050	0.883		0.0470	0.972	0.003
0.051	1.012	0.052	0.877	0.000	0.0479	0.974	0.002
0.052	1.017	0.054	0.876	0.000	0.0487	0.967	0.003
0.035	1.024	0.053	0.879	0.001	0.0432	0.944	0.003
0.044	1.005	0.052	0.891		0.0412	0.975	0.003
0.041	1.002	0.053	0.881	0.001	0.0527	0.970	0.002
0.021	1.002	0.052	0.875	0.001	0.0513	0.943	0.001
0.038	0.998	0.054	0.893	0.000	0.0515	0.967	0.002
0.030	0.999	0.057	0.883	0.001	0.0491	0.948	
0.045	0.999	0.051	0.899	0.000	0.0425	0.972	0.002
0.054	1.005	0.054	0.885	0.000	0.0509	0.970	0.003
0.037	0.997	0.047	0.899	0.001	0.0417	0.971	0.002
0.038	1.001	0.048	0.895		0.0431	0.971	0.002
0.027	0.999	0.042	0.909	0.001	0.0375	0.962	0.002

0.030	1.001	0.044	0.901	0.001	0.0385	0.970	0.002	
0.043	0.997	0.048	0.892	0.000	0.0458	0.971	0.003	
0.039	1.003	0.051	0.895	0.001	0.0436	0.967	0.002	
0.034	0.999	0.053	0.894	0.000	0.0374	0.964	0.002	
0.047	1.003	0.053	0.892	0.001	0.0434	0.970	0.003	
0.043	1.005	0.042	0.914		0.0311	0.996	0.003	0.001
0.079	0.998	0.051	0.886	0.001	0.0469	0.987	0.005	0.005
0.026	1.001	0.042	0.892	0.001	0.0426	0.965	0.003	
0.051	0.992	0.046	0.894	0.001	0.0478	0.981	0.005	
0.049	0.999	0.043	0.893	0.000	0.0442	0.977	0.004	0.000
0.060	0.996	0.049	0.872	0.001	0.0609	0.977	0.004	0.001
0.064	1.001	0.052	0.871		0.0578	0.977	0.005	0.001
0.057	0.999	0.052	0.878	0.001	0.0560	0.973	0.005	
0.055	1.000	0.054	0.894		0.0477	0.970	0.002	
0.038	1.002	0.050	0.895		0.0464	0.966	0.002	
0.046	0.997	0.050	0.890	0.001	0.0445	0.982	0.002	
0.040	0.997	0.053	0.892	0.000	0.0434	0.973	0.003	
0.046	0.997	0.050	0.891	0.000	0.0464	0.978	0.003	
0.030	0.999	0.051	0.893	0.000	0.0361	0.969	0.003	
0.047	1.002	0.054	0.889	0.000	0.0457	0.971	0.003	
0.048	1.005	0.056	0.879	0.001	0.0470	0.973	0.003	
0.043	1.006	0.057	0.879	0.001	0.0476	0.972	0.003	
0.043	1.004	0.053	0.880	0.000	0.0451	0.976	0.003	
0.041	1.004	0.051	0.893		0.0440	0.968	0.002	
0.045	0.999	0.051	0.893	0.001	0.0452	0.975	0.003	
0.042	0.998	0.049	0.902	0.000	0.0437	0.968	0.003	
0.043	0.997	0.053	0.899	0.000	0.0402	0.973	0.002	
0.044	0.995	0.052	0.896	0.001	0.0446	0.975	0.002	
0.053	1.002	0.053	0.891	0.001	0.0469	0.971	0.003	
0.063	1.004	0.049	0.876	0.000	0.0574	0.973	0.004	
0.062	0.999	0.049	0.869	0.001	0.0617	0.978	0.005	
0.062	1.000	0.049	0.865	0.001	0.0612	0.978	0.005	0.001
0.054	1.003	0.047	0.881		0.0541	0.979	0.005	0.000
0.063	1.002	0.044	0.889	0.000	0.0477	0.986	0.004	
0.057	1.007	0.055	0.887	0.000	0.0402	0.987	0.004	0.000
0.046	1.001	0.054	0.880	0.001	0.0496	0.972	0.003	
0.047	1.008	0.051	0.886	0.001	0.0422	0.982	0.002	
0.051	1.004	0.049	0.897		0.0434	0.981	0.003	0.000
0.061	1.002	0.053	0.888	0.000	0.0464	0.984	0.004	
0.063	1.010	0.057	0.881	0.000	0.0458	0.987	0.003	
0.070	1.007	0.059	0.874	0.001	0.0437	1.000	0.003	
0.076	1.003	0.062	0.884	0.001	0.0415	0.996	0.004	0.001
0.053	1.003	0.053	0.888		0.0420	0.986	0.003	0.000
0.049	1.014	0.052	0.889		0.0415	0.979	0.003	0.000
0.051	1.010	0.052	0.892	0.001	0.0411	0.973	0.002	
0.053	1.012	0.055	0.885	0.006	0.0470	0.961	0.003	
0.050	0.997	0.049	0.896	0.001	0.0454	0.975	0.002	
0.053	0.999	0.053	0.890		0.0461	0.977	0.002	

0.034	1.003	0.046	0.896	0.000	0.0493	0.957	0.002	
0.044	1.047	0.093	0.796	0.055	0.0972	0.875	0.002	
0.047	1.005	0.056	0.880	0.001	0.0573	0.953	0.003	
0.048	0.999	0.060	0.880	0.003	0.0558	0.966	0.003	
0.043	1.002	0.053	0.879	0.000	0.0547	0.964	0.004	
0.044	1.001	0.054	0.882	0.001	0.0554	0.963	0.003	
0.041	1.003	0.058	0.883		0.0438	0.966	0.003	
0.036	1.000	0.052	0.885		0.0442	0.963	0.003	
0.034	1.001	0.051	0.894	0.000	0.0438	0.962	0.002	
0.039	1.002	0.051	0.881	0.001	0.0506	0.965	0.003	
0.047	1.001	0.054	0.885		0.0534	0.965	0.003	
0.053	1.012	0.058	0.875	0.000	0.0525	0.965	0.003	
0.049	1.003	0.054	0.879	0.001	0.0541	0.968	0.002	
0.045	1.000	0.055	0.881	0.000	0.0540	0.965	0.004	
0.041	0.999	0.055	0.882	0.000	0.0551	0.963	0.002	
0.047	0.994	0.057	0.879	0.000	0.0616	0.963	0.005	
0.044	1.003	0.056	0.875	0.001	0.0551	0.972	0.003	
0.048	1.000	0.056	0.886		0.0516	0.967	0.003	
0.042	1.001	0.054	0.881	0.000	0.0477	0.973	0.003	
0.061	1.004	0.055	0.890	0.000	0.0434	0.980	0.004	
0.052	0.999	0.051	0.890		0.0382	0.990	0.003	
0.047	1.007	0.048	0.879	0.001	0.0388	0.989	0.002	
0.049	1.005	0.052	0.873	0.000	0.0461	0.978	0.002	
0.051	0.997	0.055	0.889	0.001	0.0469	0.967	0.003	
0.041	1.002	0.050	0.888		0.0375	0.984	0.001	
0.044	0.996	0.048	0.892	0.002	0.0423	0.975	0.002	
0.041	0.996	0.051	0.885	0.001	0.0456	0.959	0.004	
0.048	1.003	0.050	0.894	0.001	0.0447	0.964	0.003	
0.045	1.001	0.051	0.891	0.001	0.0418	0.975	0.003	
0.052	0.997	0.056	0.888	0.001	0.0501	0.970	0.002	
0.050	0.999	0.051	0.895	0.000	0.0416	0.978	0.003	
0.059	1.000	0.053	0.884	0.001	0.0439	0.995	0.003	0.001
0.055	0.993	0.053	0.889	0.000	0.0470	0.995	0.003	
0.061	0.995	0.057	0.888		0.0432	0.993	0.004	
0.027	0.982	0.050	0.884	0.000	0.0481	0.966	0.003	0.000
0.028	0.987	0.048	0.885	0.000	0.0472	0.964	0.004	
0.031	0.989	0.044	0.899	0.000	0.0434	0.966	0.002	
0.030	0.983	0.047	0.887	0.000	0.0472	0.969	0.002	
0.061	1.000	0.054	0.888	0.000	0.0410	0.990	0.002	
0.052	0.984	0.047	0.919		0.0337	1.001	0.004	
0.070	0.983	0.065	0.889		0.0423	1.009	0.003	0.000
0.070	0.982	0.065	0.887		0.0439	1.013	0.003	
0.049	0.992	0.055	0.893		0.0423	0.979	0.004	0.000
0.050	0.989	0.054	0.898	0.000	0.0426	0.990	0.003	
0.040	0.986	0.054	0.904	0.000	0.0409	0.982	0.003	
0.050	0.992	0.054	0.889	0.001	0.0494	0.977	0.004	
0.053	0.986	0.056	0.889	0.000	0.0516	0.979	0.002	
0.046	0.991	0.054	0.882	0.001	0.0522	0.982	0.003	

0.050	0.985	0.053	0.895	0.001	0.0518	0.974	0.003	
0.048	0.989	0.054	0.890	0.001	0.0501	0.976	0.002	
0.050	0.986	0.052	0.884	0.001	0.0542	0.983	0.004	
0.046	0.989	0.052	0.889	0.000	0.0514	0.980	0.004	0.000
0.048	0.986	0.053	0.879	0.000	0.0506	0.989	0.004	
0.042	0.985	0.048	0.897		0.0445	0.979	0.003	
0.051	0.990	0.052	0.885		0.0521	0.984	0.003	
0.041	0.989	0.054	0.884		0.0500	0.981	0.003	
0.050	0.986	0.055	0.889	0.001	0.0522	0.977	0.004	
0.050	0.987	0.053	0.889		0.0498	0.984	0.003	
0.055	0.984	0.054	0.889	0.001	0.0510	0.984	0.003	
0.054	0.989	0.056	0.892	0.001	0.0496	0.976	0.003	
0.045	0.992	0.051	0.904	0.001	0.0399	0.977	0.002	
0.048	0.992	0.052	0.891	0.000	0.0444	0.989	0.003	
0.054	0.992	0.051	0.896	0.001	0.0389	0.992	0.003	
0.062	0.992	0.056	0.895	0.001	0.0394	0.990	0.003	
0.059	0.988	0.057	0.883	0.000	0.0437	1.000	0.003	0.001
0.058	0.990	0.054	0.892		0.0418	0.996	0.003	
0.065	0.994	0.055	0.891		0.0435	0.993	0.004	
0.050	0.994	0.050	0.893	0.000	0.0405	0.991	0.002	
0.052	0.994	0.050	0.890	0.001	0.0431	0.981	0.003	
0.050	0.990	0.050	0.889		0.0457	0.991	0.003	
0.049	0.994	0.050	0.893	0.001	0.0470	0.975	0.002	
0.050	0.990	0.051	0.895	0.001	0.0478	0.978	0.002	
0.035	0.985	0.040	0.917		0.0385	0.985	0.003	
0.047	0.986	0.046	0.907	0.001	0.0439	0.989	0.004	
0.041	0.987	0.044	0.908		0.0479	0.986	0.002	
0.036	0.979	0.036	0.933		0.0537	0.967	0.004	
0.055	0.985	0.048	0.908	0.001	0.0507	0.983	0.003	
0.053	0.992	0.048	0.907		0.0494	0.978	0.003	
0.054	0.994	0.052	0.901	0.001	0.0496	0.979	0.004	
0.051	1.001	0.054	0.883	0.000	0.0494	0.989	0.003	
0.057	0.996	0.052	0.895	0.000	0.0488	0.986	0.003	
0.035	0.994	0.041	0.905	0.001	0.0376	0.977	0.001	
0.040	1.000	0.041	0.927		0.0251	0.983	0.003	0.001
0.041	1.002	0.047	0.897	0.000	0.0378	0.979	0.003	
0.049	1.001	0.051	0.887		0.0416	0.980	0.002	
0.047	0.998	0.051	0.897		0.0400	0.978	0.003	
0.059	1.003	0.050	0.895	0.001	0.0391	0.987	0.003	
0.060	1.002	0.053	0.892	0.001	0.0424	0.985	0.003	
0.047	0.999	0.050	0.900	0.000	0.0372	0.980	0.002	
0.049	0.994	0.054	0.891	0.000	0.0434	0.978	0.002	
0.052	0.998	0.057	0.882	0.001	0.0475	0.975	0.003	
0.039	0.995	0.049	0.886	0.001	0.0482	0.970	0.005	
0.039	0.989	0.048	0.891	0.001	0.0447	0.970	0.005	0.000
0.055	0.987	0.060	0.874	0.001	0.0569	0.972	0.006	
0.041	0.993	0.051	0.881	0.000	0.0490	0.969	0.002	
0.059	0.991	0.059	0.859	0.001	0.0619	0.968	0.008	0.000

0.037	0.991	0.052	0.870	0.001	0.0561	0.952	0.006	0.000
0.040	0.992	0.051	0.865		0.0544	0.964	0.004	
0.035	0.995	0.053	0.859	0.001	0.0548	0.953	0.008	0.001
0.035	0.987	0.053	0.859	0.000	0.0567	0.958	0.008	0.001
0.051	0.995	0.060	0.858	0.002	0.0595	0.966	0.010	
0.054	0.989	0.057	0.859	0.002	0.0630	0.970	0.007	
0.051	0.994	0.057	0.866	0.001	0.0604	0.966	0.006	
0.053	0.997	0.061	0.861	0.001	0.0632	0.969	0.005	
0.046	0.995	0.054	0.885	0.000	0.0453	0.975	0.005	
0.046	0.999	0.055	0.900	0.000	0.0425	0.963	0.002	
0.061	0.999	0.048	0.914	0.000	0.0309	1.001	0.003	0.000
0.057	0.998	0.046	0.912		0.0292	1.001	0.002	
0.047	0.993	0.044	0.916	0.000	0.0298	0.994	0.003	
0.038	0.994	0.043	0.888		0.0395	0.983	0.003	
0.038	0.989	0.044	0.887		0.0387	0.991	0.003	0.001
0.039	0.993	0.043	0.892	0.000	0.0398	0.978	0.003	0.001
0.041	0.987	0.045	0.895	0.001	0.0397	0.983	0.003	0.000
0.043	0.993	0.043	0.890		0.0398	0.980	0.002	0.000
0.036	0.992	0.045	0.882		0.0415	0.984	0.003	0.000
0.039	0.993	0.044	0.892		0.0386	0.984	0.003	0.001
0.034	0.988	0.042	0.897		0.0384	0.987	0.004	
0.039	0.998	0.042	0.897		0.0394	0.986	0.004	
0.038	0.990	0.042	0.901	0.001	0.0399	0.992	0.003	
0.040	0.993	0.041	0.896	0.000	0.0380	0.993	0.003	
0.055	0.990	0.049	0.890		0.0452	0.995	0.003	0.000
0.059	0.997	0.049	0.893		0.0444	0.988	0.004	0.000
0.072	0.994	0.053	0.899	0.001	0.0375	1.008	0.003	
0.047	0.992	0.055	0.892	0.000	0.0514	0.975	0.002	0.000
0.047	0.988	0.056	0.890	0.000	0.0545	0.972	0.003	0.000
0.030	0.990	0.053	0.895	0.000	0.0479	0.950	0.002	0.000
0.047	0.983	0.055	0.896	0.000	0.0503	0.983	0.003	0.000
0.051	0.989	0.049	0.903	0.000	0.0466	0.987	0.004	0.000
0.039	0.987	0.048	0.912	0.000	0.0399	0.969	0.003	0.001
0.055	0.995	0.056	0.890	0.000	0.0501	0.971	0.003	0.000
0.067	1.000	0.058	0.891	0.000	0.0415	0.993	0.003	0.000
0.039	0.987	0.047	0.911	0.000	0.0410	0.968	0.003	0.000
0.060	0.986	0.054	0.894	0.000	0.0501	0.974	0.003	0.001
0.061	0.991	0.060	0.909	0.000	0.0270	1.000	0.004	0.000
0.060	0.998	0.053	0.894	0.000	0.0495	0.982	0.004	0.000
0.050	0.988	0.052	0.897	0.000	0.0475	0.977	0.003	0.000
0.066	0.992	0.056	0.890	0.000	0.0515	0.994	0.003	0.000
0.058	0.915	0.057	0.803	0.007	0.0428	1.145	0.004	0.008
0.067	0.983	0.055	0.901	0.000	0.0476	0.997	0.003	0.000
0.039	0.987	0.056	0.899	0.000	0.0430	0.967	0.002	0.000
0.070	0.987	0.060	0.897	0.000	0.0309	1.012	0.003	0.001
0.073	0.991	0.055	0.877	0.000	0.0575	1.002	0.004	0.001
0.055	0.989	0.055	0.890	0.000	0.0508	0.981	0.004	0.000

0.058	0.991	0.057	0.894	0.000	0.0494	0.982	0.003	0.000
0.066	0.990	0.059	0.880	0.000	0.0510	0.999	0.004	0.000
0.069	0.991	0.057	0.886	0.000	0.0495	0.997	0.004	0.000
0.059	0.990	0.054	0.900	0.000	0.0440	0.992	0.003	0.001
0.053	0.991	0.058	0.891	0.000	0.0502	0.986	0.003	0.001
0.071	1.032	0.144	0.818	0.003	0.0570	0.931	0.003	0.000
0.060	0.992	0.056	0.885	0.000	0.0558	0.978	0.003	0.000
0.074	0.988	0.055	0.895	0.000	0.0534	0.989	0.004	0.000
0.054	0.996	0.056	0.894	0.000	0.0461	0.973	0.004	0.000
0.069	0.999	0.056	0.890	0.000	0.0493	0.974	0.003	0.000
0.068	0.996	0.056	0.891	0.000	0.0509	0.978	0.003	0.000
0.054	0.996	0.067	0.898	0.000	0.0409	0.965	0.003	0.000
0.052	0.986	0.056	0.900	0.001	0.0502	0.969	0.003	0.000
0.058	0.991	0.054	0.904	0.000	0.0394	0.985	0.004	0.000
0.050	1.001	0.052	0.906	0.000	0.0371	0.976	0.003	0.000
0.053	0.924	0.148	0.876	0.000	0.0532	0.966	0.003	0.000
0.052	0.989	0.055	0.900	0.000	0.0500	0.970	0.003	0.000
0.066	0.991	0.059	0.895	0.000	0.0483	0.975	0.003	0.000
0.056	0.990	0.060	0.882	0.000	0.0587	0.972	0.003	0.000
0.048	0.989	0.054	0.897	0.000	0.0541	0.968	0.003	0.000
0.058	0.989	0.058	0.887	0.000	0.0552	0.975	0.003	0.000
0.067	0.984	0.050	0.888	0.000	0.0570	0.997	0.004	0.000
0.063	0.987	0.053	0.890	0.000	0.0548	0.992	0.004	0.002
0.061	0.989	0.054	0.888	0.000	0.0550	0.986	0.004	0.000
0.075	0.992	0.059	0.879	0.000	0.0531	1.002	0.004	0.001
0.050	0.994	0.048	0.896	0.000	0.0505	0.975	0.003	0.000
0.267	0.996	0.297	0.663	0.001	0.0299	1.012	0.001	0.000
0.278	0.996	0.310	0.647	0.001	0.0311	1.010	0.001	0.000
0.254	1.027	0.237	0.699	0.000	0.0269	1.008	0.001	0.000
0.039	0.990	0.044	0.906	0.000	0.0442	0.979	0.002	0.000
0.046	0.991	0.052	0.911	0.000	0.0320	0.987	0.004	0.000
0.044	0.985	0.052	0.902	0.000	0.0392	0.995	0.003	0.000
0.065	0.990	0.059	0.884	0.000	0.0416	1.017	0.003	0.000
0.058	0.990	0.052	0.886	0.000	0.0527	0.989	0.004	0.001
0.301	0.997	0.324	0.620	0.003	0.0444	1.012	0.000	0.000
0.037	0.989	0.048	0.908	0.000	0.0400	0.979	0.003	0.000
0.057	0.992	0.048	0.893	0.000	0.0499	0.984	0.004	0.000
0.062	0.993	0.061	0.891	0.000	0.0376	1.008	0.003	0.000
0.076	0.995	0.067	0.872	0.000	0.0564	1.003	0.003	0.000
0.068	0.997	0.070	0.876	0.000	0.0506	1.001	0.003	0.000
0.067	0.991	0.065	0.876	0.000	0.0539	1.007	0.003	0.001
0.061	0.990	0.063	0.880	0.000	0.0524	1.008	0.003	0.000
0.065	0.977	0.055	0.890	0.000	0.0575	0.992	0.003	0.000
0.046	0.983	0.054	0.895	0.000	0.0469	0.987	0.003	0.000
0.065	0.981	0.051	0.892	0.000	0.0514	0.992	0.003	0.000

0.059	0.982	0.059	0.885	0.000	0.0603	0.973	0.002	0.000
0.042	0.977	0.051	0.899	0.000	0.0519	0.977	0.003	0.000
0.062	0.975	0.055	0.898	0.000	0.0501	0.992	0.003	0.000
0.069	0.969	0.054	0.887	0.000	0.0558	0.993	0.003	0.000
0.036	0.982	0.050	0.893	0.000	0.0490	0.975	0.003	0.000
0.061	0.980	0.058	0.884	0.000	0.0583	0.992	0.003	0.000
0.050	0.980	0.056	0.894	0.000	0.0612	0.963	0.003	0.000
0.064	0.984	0.050	0.912	0.000	0.0421	0.992	0.005	0.001
0.042	0.976	0.042	0.923	0.000	0.0342	1.001	0.004	0.000
0.050	0.976	0.053	0.900	0.000	0.0521	0.991	0.003	0.001
0.068	0.978	0.056	0.886	0.000	0.0560	0.993	0.004	0.000
0.057	0.982	0.056	0.893	0.000	0.0494	0.988	0.003	0.000
0.042	0.981	0.051	0.912	0.000	0.0359	0.988	0.003	0.000
0.038	0.986	0.044	0.921	0.000	0.0415	0.975	0.003	0.000
0.057	0.980	0.043	0.904	0.000	0.0503	0.992	0.005	0.000
0.043	0.983	0.041	0.906	0.000	0.0487	0.984	0.004	0.000
0.050	0.981	0.052	0.902	0.000	0.0448	0.997	0.003	0.000
0.056	0.999	0.055	0.899	0.000	0.0408	0.975	0.004	0.000
0.050	0.986	0.054	0.912	0.000	0.0391	0.988	0.003	0.001
0.060	0.981	0.054	0.891	0.000	0.0492	0.995	0.003	0.000
0.052	0.986	0.057	0.905	0.000	0.0362	0.987	0.003	0.000
0.053	0.985	0.054	0.908	0.000	0.0422	0.986	0.003	0.000
0.066	0.990	0.060	0.891	0.000	0.0537	0.975	0.003	0.000

0.062	0.997	0.049	0.908		0.0402	0.993	0.003	0.001
0.058	0.989	0.052	0.908		0.0416	0.994	0.003	0.001
0.031	0.986	0.039	0.930		0.0323	0.995	0.002	0.001
0.044	0.985	0.044	0.920		0.0350	0.993	0.003	0.001
0.035	0.980	0.044	0.928		0.0321	0.993	0.002	0.000
0.053	0.987	0.050	0.904		0.0393	1.000	0.003	0.001
0.058	0.985	0.050	0.908		0.0371	1.004	0.003	0.003
0.053	0.989	0.055	0.892		0.0439	1.005	0.003	0.002
0.053	1.002	0.055	0.910			1.019	0.002	0.001
0.041	0.989	0.053	0.893		0.0489	0.996	0.002	
0.040	0.993	0.058	0.889		0.0544	0.976	0.003	
0.032	0.990	0.060	0.886		0.0557	0.973	0.002	
0.028	0.991	0.055	0.895		0.0500	0.953	0.002	
0.029	0.995	0.058	0.877		0.0558	0.956	0.003	
0.051	1.001	0.046	0.915		0.0371	0.980	0.003	0.001
0.036	0.991	0.057	0.858		0.0629	0.950	0.003	
0.038	0.998	0.054	0.895		0.0494	0.956	0.002	
0.045	1.003	0.046	0.918		0.0333	0.979	0.003	0.002
0.053	1.000	0.054	0.899		0.0434	0.988	0.002	
0.047	1.004	0.058	0.890		0.0495	0.972	0.003	
0.039	1.000	0.060	0.885		0.0562	0.960	0.002	

0.030	0.998	0.060	0.872	0.0564	0.946	0.003	
0.030	1.003	0.060	0.870	0.0581	0.940	0.003	
0.037	0.999	0.052	0.844	0.0619	0.954	0.003	
0.040	1.002	0.059	0.872	0.0610	0.960	0.003	
0.043	1.002	0.044	0.913	0.0373	0.979	0.003	0.000
0.046	0.999	0.052	0.893	0.0452	0.993	0.003	0.000
0.080	1.000	0.064	0.883	0.0488	0.994	0.003	
0.045	0.995	0.047	0.915	0.0313	0.991	0.002	
0.047	0.996	0.053	0.897	0.0447	0.993	0.002	
0.027	0.992	0.067	0.884	0.0507	0.952	0.002	
0.029	0.999	0.056	0.901	0.0419	0.962	0.002	
0.033	0.996	0.050	0.910	0.0357	0.976	0.003	
0.048	0.995	0.045	0.905	0.0378	0.995	0.002	
0.040	0.989	0.043	0.915	0.0354	1.000	0.003	
0.037	0.991	0.042	0.914	0.0308	1.001	0.003	
0.076	0.997	0.057	0.884	0.0489	1.001	0.003	
0.062	0.995	0.055	0.886	0.0462	1.004	0.003	0.000
0.059	0.995	0.053	0.896	0.0400	1.001	0.003	
0.033	0.994	0.035	0.923	0.0304	1.000	0.002	
0.037	0.998	0.038	0.918	0.0329	0.992	0.003	
0.040	0.990	0.051	0.892	0.0464	1.002	0.003	0.000
0.025	0.998	0.049	0.883	0.0476	0.971	0.002	
0.051	0.994	0.050	0.891	0.0498	0.987	0.003	
0.035	0.995	0.036	0.925	0.0324	0.994	0.002	
0.067	0.994	0.055	0.887	0.0423	1.006	0.003	
0.052	0.988	0.041	0.910	0.0358	1.013	0.003	0.000
0.035	0.986	0.036	0.913	0.0368	1.003	0.002	
0.023	0.985	0.049	0.886	0.0511	0.973	0.002	
0.021	0.992	0.052	0.869	0.0701	0.944	0.003	
0.020	0.985	0.050	0.875	0.0668	0.952	0.002	
0.035	0.988	0.052	0.872	0.0601	0.971	0.002	
0.037	0.987	0.059	0.857	0.0694	0.984	0.003	
0.040	0.983	0.054	0.881	0.0527	0.991	0.003	
0.047	0.989	0.044	0.902	0.0362	1.012	0.002	
0.040	1.014	0.047	0.906	0.0297	0.984	0.004	
0.052	0.992	0.054	0.891	0.0441	0.990	0.004	
0.037	0.983	0.036	0.922	0.0319	1.005	0.004	0.000
0.059	0.988	0.050	0.901	0.0383	1.007	0.003	
0.077	0.985	0.058	0.890	0.0464	1.011	0.003	
0.041	0.983	0.053	0.894	0.0523	0.983	0.002	
0.035	0.989	0.048	0.892	0.0542	0.964	0.003	
0.060	0.984	0.054	0.885	0.0524	0.988	0.003	
0.049	0.985	0.056	0.884	0.0519	0.992	0.003	
0.040	0.980	0.046	0.908	0.0431	0.993	0.004	
0.041	0.979	0.050	0.901	0.0456	0.993	0.003	
0.040	0.983	0.047	0.904	0.0433	0.987	0.003	
0.074	0.982	0.060	0.893	0.0458	1.009	0.003	
0.061	0.980	0.049	0.906	0.0398	1.011	0.003	

0.031	0.983	0.052	0.891	0.0520	0.956	0.002	
0.047	0.985	0.043	0.899	0.0564	0.978	0.003	
0.046	0.981	0.051	0.894	0.0455	1.001	0.003	
0.037	0.981	0.045	0.903	0.0428	0.988	0.002	
0.035	0.983	0.046	0.906	0.0441	0.992	0.004	
0.030	0.981	0.055	0.872	0.0637	0.966	0.002	
0.035	0.974	0.048	0.892	0.0567	0.991	0.003	0.000
0.042	0.980	0.052	0.893	0.0515	0.991	0.003	
0.059	0.977	0.050	0.905	0.0410	1.013	0.002	
0.054	0.978	0.057	0.885	0.0531	0.997	0.003	
0.049	0.968	0.057	0.895	0.0484	1.005	0.004	
0.036	0.961	0.050	0.909	0.0427	0.996	0.003	
0.038	0.987	0.066	0.848	0.0750	0.975	0.002	
0.034	0.973	0.050	0.901	0.0400	1.001	0.002	
0.027	0.989	0.045	0.897	0.0493	0.968	0.002	
0.039	0.987	0.040	0.912	0.0332	1.008	0.003	
0.051	0.979	0.043	0.905	0.0379	1.015	0.002	
0.051	0.986	0.053	0.875	0.0533	1.003	0.002	
0.026	0.993	0.043	0.892	0.0446	0.986	0.002	
0.031	0.986	0.047	0.895	0.0457	0.982	0.004	
0.026	0.997	0.048	0.882	0.0532	0.969	0.004	
0.042	0.988	0.054	0.879	0.0566	0.987	0.003	
0.032	0.989	0.046	0.897	0.0479	0.981	0.003	
0.035	0.993	0.045	0.891	0.0435	0.989	0.003	
0.033	0.997	0.037	0.916	0.0346	0.992	0.002	
0.037	0.994	0.036	0.917	0.0323	1.002	0.002	
0.034	0.992	0.038	0.917	0.0332	0.999	0.002	
0.034	0.985	0.034	0.926	0.0304	1.002	0.002	
0.037	0.983	0.034	0.926	0.0301	1.005	0.002	
0.041	0.994	0.045	0.896	0.0418	0.995	0.003	
0.030	0.984	0.036	0.916	0.0364	1.003	0.002	
0.048	0.991	0.044	0.918	0.0248	1.011	0.001	
0.022	0.994	0.025	0.927	0.0372	0.996		
0.032	0.990	0.025	0.931	0.0336	1.003		
0.025	0.989	0.059	0.866	0.0645	0.975	0.003	
0.032	0.986	0.027	0.922	0.0415	1.005		
0.026	0.990	0.029	0.919	0.0402	0.997		
0.024	0.974	0.057	0.888	0.0629	0.970	0.003	
0.023	0.988	0.051	0.873	0.0595	0.972	0.003	
0.040	0.993	0.041	0.922	0.0340	0.990	0.003	
0.055	0.984	0.047	0.912	0.0391	1.002	0.003	
0.048	0.988	0.049	0.907	0.0417	0.996	0.003	
0.065	0.993	0.051	0.906	0.0337	1.010	0.002	0.001
0.034	0.988	0.051	0.894	0.0533	0.975	0.003	
0.023	0.989	0.026	0.930	0.0324	1.000	0.000	
0.027	0.984	0.049	0.893	0.0503	0.977	0.003	
0.027	0.980	0.049	0.896	0.0493	0.984	0.003	
0.032	0.979	0.052	0.891	0.0532	0.997	0.003	

0.029	0.979	0.057	0.876		0.0596	0.994	0.003
0.028	0.976	0.054	0.888		0.0538	0.986	0.003
0.040	0.973	0.040	0.928		0.0325	1.010	0.003
0.046	0.990	0.040	0.921		0.0310	1.001	0.003
0.030	1.001	0.058	0.877		0.0608	0.951	0.002
0.038	1.007	0.063	0.862		0.0607	0.973	0.003
0.034	1.001	0.059	0.868		0.0584	0.979	0.003
0.037	1.003	0.058	0.878		0.0520	0.983	0.002
0.031	0.997	0.056	0.874		0.0510	0.990	0.002
0.036	0.996	0.057	0.863		0.0565	0.974	0.002
0.028	0.992	0.052	0.857		0.0598	0.981	0.002
0.040	0.989	0.064	0.859		0.0642	0.980	0.002
0.047	0.989	0.063	0.855		0.0631	0.989	0.001
0.058	0.982	0.056	0.877		0.0521	1.013	0.002
0.048	0.978	0.049	0.892		0.0476	1.021	0.003
0.042	0.979	0.049	0.896		0.0398	1.014	0.002
0.044	0.977	0.047	0.896		0.0399	1.016	0.002
0.040	0.970	0.048	0.897		0.0382	1.015	0.003
0.038	0.997	0.048	0.899		0.0418	0.996	0.002
0.050	0.998	0.053	0.892		0.0406	0.995	0.002
0.046	0.997	0.044	0.907		0.0368	0.999	0.003
0.042	1.000	0.047	0.898		0.0412	0.995	0.002
0.042	0.982	0.053	0.870	0.053	0.0442	0.978	0.002
0.038	0.991	0.039	0.920		0.0316	1.002	0.003
0.045	0.996	0.047	0.909		0.0320	0.998	0.002
0.032	0.997	0.044	0.903		0.0429	0.985	0.002
0.049	0.994	0.053	0.888		0.0491	0.997	0.002
0.047	0.995	0.047	0.898		0.0443	0.990	0.002
0.041	0.995	0.037	0.919		0.0310	1.004	0.004
0.036	0.991	0.039	0.915		0.0351	0.997	0.002
0.039	0.983	0.044	0.910		0.0362	1.010	0.003
0.044	0.991	0.050	0.898		0.0407	1.004	0.003
0.047	0.988	0.037	0.921		0.0286	1.010	0.003
0.046	0.990	0.042	0.914		0.0336	1.006	0.003
0.062	0.979	0.052	0.909		0.0348	1.020	0.002
0.049	0.986	0.047	0.911		0.0316	1.013	0.003
0.051	0.987	0.048	0.904		0.0395	1.009	0.004
0.050	0.987	0.051	0.891		0.0473	1.009	0.003
0.055	0.988	0.050	0.893		0.0470	1.008	0.002
0.042	0.990	0.042	0.911		0.0414	0.990	0.002
0.077	0.993	0.066	0.872		0.0452	1.018	0.003
0.079	0.992	0.064	0.871		0.0481	1.016	0.002
0.041	0.991	0.040	0.910		0.0347	1.002	0.002
0.052	0.992	0.050	0.895		0.0436	1.006	0.003
0.052	0.993	0.047	0.910		0.0368	1.001	0.003
0.039	0.993	0.040	0.923		0.0341	0.993	0.003
0.040	0.992	0.039	0.922		0.0357	0.992	0.002
0.056	0.992	0.050	0.899		0.0460	1.002	0.003

0.036	0.985	0.038	0.923		0.0324	1.006	0.002	0.001
0.040	0.995	0.042	0.915		0.0402	0.986	0.002	0.000
0.049	0.995	0.047	0.909		0.0403	0.994	0.003	
0.038	0.990	0.046	0.915		0.0408	0.984	0.002	0.000
0.042	0.989	0.044	0.917		0.0386	0.987	0.002	
0.054	0.991	0.052	0.905		0.0436	0.998	0.003	0.000
0.030	1.002	0.051	0.892	0.000	0.0517	0.954	0.002	0.000
0.036	1.001	0.050	0.893	0.000	0.0463	0.966	0.002	0.000
0.037	0.994	0.051	0.904	0.000	0.0457	0.970	0.003	0.000
0.047	1.006	0.040	0.918	0.000	0.0355	0.986	0.003	0.000
0.040	1.001	0.062	0.883	0.000	0.0487	0.952	0.002	0.000
0.051	1.002	0.056	0.882	0.000	0.0573	0.972	0.002	0.000
0.042	0.996	0.058	0.885	0.000	0.0542	0.982	0.002	0.000
0.049	0.996	0.054	0.898	0.000	0.0505	0.985	0.002	0.000
0.053	1.000	0.051	0.893	0.000	0.0465	0.989	0.003	0.000
0.043	0.993	0.041	0.919	0.000	0.0377	0.994	0.003	0.001
0.039	0.993	0.043	0.910	0.000	0.0405	0.983	0.002	0.000
0.035	1.001	0.041	0.918	0.000	0.0361	0.981	0.002	0.000
0.043	0.993	0.044	0.916	0.000	0.0369	0.992	0.002	0.000
0.046	0.984	0.047	0.911	0.000	0.0443	0.992	0.002	0.001
0.064	0.993	0.050	0.898	0.000	0.0451	0.999	0.003	0.000
0.035	0.996	0.038	0.921	0.000	0.0347	0.992	0.003	0.000
0.038	0.991	0.039	0.917	0.000	0.0337	0.996	0.002	0.000
0.036	0.993	0.040	0.913	0.000	0.0479	0.986	0.003	0.000
0.061	0.993	0.051	0.895	0.000	0.0458	1.002	0.002	0.000
0.045	0.995	0.041	0.914	0.000	0.0424	0.994	0.003	0.001
0.056	0.995	0.053	0.894	0.000	0.0456	1.002	0.002	0.000
0.050	0.991	0.050	0.896	0.000	0.0476	1.002	0.002	0.001
0.041	0.993	0.042	0.915	0.000	0.0321	0.996	0.003	0.000
0.037	0.993	0.043	0.913	0.000	0.0361	0.996	0.002	0.001
0.044	0.988	0.044	0.919	0.000	0.0323	0.992	0.003	0.001
0.081	0.988	0.052	0.888	0.000	0.0501	1.007	0.003	0.001
0.073	0.989	0.048	0.893	0.000	0.0461	1.013	0.004	0.001
0.037	0.988	0.044	0.917	0.000	0.0347	0.996	0.003	0.001
0.033	0.998	0.037	0.925	0.000	0.0322	0.982	0.003	0.000
0.035	0.996	0.043	0.915	0.000	0.0358	0.988	0.003	0.000
0.040	1.001	0.049	0.898	0.000	0.0451	0.969	0.003	0.000
0.043	0.998	0.054	0.884	0.000	0.0530	0.971	0.002	0.000
0.044	0.994	0.041	0.923	0.000	0.0334	0.988	0.003	0.000
0.043	0.997	0.054	0.889	0.000	0.0513	0.967	0.002	0.000
0.049	0.986	0.047	0.913	0.000	0.0354	0.998	0.003	0.000
0.044	0.990	0.054	0.891	0.000	0.0494	0.981	0.003	0.000
0.051	0.989	0.049	0.898	0.000	0.0441	1.000	0.003	0.000
0.051	0.991	0.050	0.902	0.000	0.0438	0.993	0.004	0.000
0.060	0.991	0.054	0.897	0.000	0.0456	0.997	0.003	0.000
0.054	0.985	0.056	0.887	0.000	0.0579	0.982	0.003	0.000
0.041	0.991	0.059	0.879	0.000	0.0578	0.981	0.002	0.000
0.048	0.993	0.051	0.902	0.000	0.0399	0.992	0.004	0.000

0.046	0.990	0.043	0.910	0.000	0.0359	1.004	0.004	0.000
0.044	0.990	0.041	0.914	0.000	0.0353	1.002	0.004	0.000
0.038	0.986	0.054	0.887	0.000	0.0534	0.964	0.002	0.000
0.035	0.992	0.045	0.911	0.000	0.0385	0.986	0.003	0.000
0.035	0.987	0.052	0.898	0.000	0.0468	0.966	0.003	0.000
0.059	0.987	0.053	0.900	0.000	0.0452	0.995	0.004	0.000
0.073	0.989	0.072	0.910	0.000	0.0086	1.013	0.001	0.000
0.050	0.988	0.042	0.916	0.000	0.0363	0.999	0.004	0.000
0.070	0.988	0.058	0.888	0.000	0.0467	1.010	0.004	0.000
0.052	0.995	0.052	0.886	0.000	0.0450	1.008	0.004	0.001
0.050	1.001	0.055	0.898	0.000	0.0446	0.977	0.003	0.000
0.059	1.001	0.052	0.904	0.000	0.0483	0.981	0.004	0.000
0.037	0.998	0.041	0.919	0.000	0.0365	0.977	0.003	0.000
0.036	0.988	0.041	0.923	0.000	0.0422	0.975	0.004	0.000
0.037	0.993	0.038	0.928	0.000	0.0353	0.985	0.003	0.000
0.048	0.997	0.043	0.912	0.000	0.0396	0.984	0.003	0.000
0.040	0.996	0.040	0.926	0.000	0.0360	0.976	0.003	0.000
0.058	1.000	0.046	0.904	0.000	0.0450	0.987	0.003	0.000
0.055	0.996	0.049	0.901	0.000	0.0426	0.988	0.004	0.000
0.040	0.998	0.040	0.922	0.000	0.0375	0.977	0.004	0.000
0.037	0.993	0.043	0.922	0.000	0.0404	0.976	0.004	0.000
0.057	0.987	0.055	0.903	0.000	0.0441	0.990	0.003	0.000
0.035	0.985	0.040	0.926	0.000	0.0349	0.990	0.004	0.000
0.034	0.991	0.043	0.921	0.000	0.0369	0.976	0.003	0.000
0.061	0.990	0.048	0.902	0.000	0.0468	0.999	0.004	0.000
0.045	0.989	0.043	0.914	0.000	0.0433	0.981	0.003	0.000
0.039	0.990	0.042	0.925	0.000	0.0357	0.983	0.003	0.000
0.038	0.986	0.041	0.921	0.000	0.0360	0.989	0.003	0.000
0.039	0.983	0.043	0.913	0.000	0.0466	0.992	0.004	0.000
0.041	0.992	0.045	0.904	0.000	0.0483	0.975	0.003	0.000
0.044	0.990	0.041	0.911	0.000	0.0408	0.998	0.004	0.000
0.054	0.987	0.052	0.915	0.000	0.0223	1.018	0.002	0.000
0.039	0.990	0.045	0.906	0.000	0.0463	0.981	0.003	0.000
0.058	0.986	0.049	0.909	0.000	0.0448	0.999	0.004	0.001
0.051	0.988	0.043	0.931	0.000	0.0185	1.006	0.001	0.000
0.051	0.988	0.043	0.917	0.000	0.0368	0.987	0.004	0.000
0.044	0.989	0.038	0.926	0.000	0.0333	0.989	0.003	0.000
0.034	0.985	0.042	0.916	0.000	0.0399	0.974	0.001	0.000
0.043	1.000	0.042	0.916	0.000	0.0344	0.990	0.003	0.000
0.044	0.994	0.050	0.903	0.000	0.0483	0.969	0.002	0.000
0.047	1.003	0.041	0.909	0.000	0.0393	0.986	0.004	0.000
0.045	0.994	0.044	0.916	0.000	0.0387	0.985	0.003	0.000
0.040	0.996	0.039	0.923	0.000	0.0337	0.985	0.003	0.000
0.044	0.993	0.044	0.912	0.000	0.0394	0.984	0.004	0.000
0.033	0.990	0.058	0.884	0.000	0.0531	0.984	0.002	0.000
0.060	0.988	0.045	0.924	0.000	0.0243	1.014	0.001	0.000
0.037	0.982	0.044	0.912	0.000	0.0414	0.976	0.002	0.000
0.070	0.991	0.058	0.904	0.007	0.0267	1.005	0.001	0.000

0.031	0.981	0.050	0.905	0.000	0.0500	0.964	0.002	0.000
0.042	0.994	0.043	0.910	0.000	0.0345	1.000	0.003	0.000
0.051	0.994	0.049	0.897	0.000	0.0438	1.001	0.004	0.000
0.057	0.998	0.048	0.902	0.000	0.0425	0.992	0.004	0.000
0.050	0.992	0.054	0.896	0.000	0.0490	0.981	0.002	0.000
0.043	0.996	0.041	0.910	0.000	0.0435	0.980	0.003	0.000
0.034	0.995	0.041	0.910	0.000	0.0422	0.983	0.004	0.000
0.037	0.997	0.026	0.942	0.000	0.0213	0.999	0.002	0.000
0.037	0.995	0.056	0.897	0.000	0.0448	0.961	0.002	0.000
0.036	0.995	0.054	0.883	0.000	0.0545	0.957	0.002	0.000
0.048	0.999	0.056	0.885	0.000	0.0551	0.973	0.002	0.000
0.056	0.994	0.053	0.889	0.000	0.0479	0.996	0.004	0.000
0.035	0.999	0.050	0.898	0.000	0.0487	0.957	0.002	0.000
0.047	0.989	0.049	0.901	0.000	0.0461	0.986	0.003	0.000
0.054	0.994	0.052	0.895	0.000	0.0479	0.994	0.003	0.000
0.059	0.996	0.049	0.901	0.000	0.0422	0.996	0.003	0.000
0.066	0.996	0.052	0.893	0.000	0.0449	1.000	0.004	0.000
0.056	0.993	0.049	0.901	0.000	0.0391	0.997	0.004	0.000
0.054	0.990	0.053	0.898	0.000	0.0472	0.994	0.003	0.000
0.031	1.002	0.044	0.914	0.000	0.0427	0.952	0.002	0.000
0.075	0.998	0.054	0.890	0.000	0.0492	0.997	0.004	0.000
0.067	0.999	0.054	0.896	0.000	0.0462	0.990	0.003	0.000
0.054	0.998	0.052	0.900	0.000	0.0434	0.987	0.003	0.000
0.058	0.996	0.048	0.904	0.000	0.0473	0.987	0.003	0.000
0.043	0.999	0.045	0.904	0.000	0.0410	0.983	0.003	0.000
0.038	0.993	0.036	0.927	0.000	0.0301	0.992	0.003	0.000
0.040	0.996	0.042	0.918	0.000	0.0374	0.978	0.003	0.000
0.038	0.996	0.037	0.924	0.000	0.0359	0.983	0.003	0.000
0.036	0.996	0.040	0.918	0.000	0.0382	0.975	0.004	0.000
0.033	0.991	0.045	0.912	0.000	0.0381	0.987	0.003	0.000
0.053	0.994	0.049	0.901	0.000	0.0442	0.990	0.003	0.000
0.050	0.993	0.050	0.903	0.000	0.0423	0.992	0.003	0.000
0.053	0.997	0.050	0.897	0.000	0.0435	0.994	0.003	0.000
0.044	0.994	0.046	0.911	0.000	0.0397	0.988	0.003	0.000
0.044	1.001	0.045	0.900	0.000	0.0428	0.993	0.004	0.001
0.045	1.002	0.045	0.897	0.000	0.0425	0.993	0.004	0.001
0.065	0.997	0.052	0.893	0.000	0.0488	0.996	0.003	0.000
0.023	0.965	0.046	0.925	0.000	0.0400	0.993	0.004	0.000
0.032	0.986	0.049	0.912	0.000	0.0358	0.988	0.003	0.000
0.032	0.985	0.049	0.908	0.000	0.0369	0.980	0.004	0.000
0.027	0.984	0.050	0.895	0.000	0.0459	0.974	0.003	0.000
0.027	0.987	0.049	0.892	0.000	0.0414	0.975	0.003	0.000
0.039	0.988	0.059	0.881	0.000	0.0472	0.982	0.003	0.000
0.025	0.980	0.051	0.894	0.000	0.0404	0.982	0.003	0.000
0.031	0.979	0.047	0.907	0.000	0.0409	0.987	0.003	0.000
0.035	0.976	0.045	0.908	0.000	0.0411	0.994	0.003	0.000
0.032	0.961	0.042	0.929	0.000	0.0308	1.015	0.003	0.000
0.046	0.986	0.056	0.886	0.000	0.0496	0.987	0.004	0.000

0.027	0.971	0.046	0.923	0.000	0.0313	0.996	0.004	0.000
0.032	0.984	0.048	0.909	0.000	0.0334	0.992	0.003	0.000
0.037	0.968	0.047	0.916	0.000	0.0404	1.004	0.003	0.000
0.036	0.989	0.046	0.904	0.000	0.0384	0.995	0.003	0.000
0.029	0.992	0.040	0.910	0.000	0.0318	0.993	0.003	0.000
0.074	0.984	0.068	0.891	0.000	0.0338	1.018	0.002	0.001
0.078	0.988	0.072	0.882	0.000	0.0345	1.020	0.002	0.000
0.029	0.973	0.047	0.903	0.000	0.0427	0.984	0.003	0.000
0.028	0.975	0.050	0.900	0.000	0.0430	0.982	0.003	0.000
0.030	0.981	0.048	0.909	0.000	0.0336	0.992	0.004	0.000
0.029	0.982	0.044	0.904	0.000	0.0378	0.990	0.003	0.000
0.027	0.966	0.043	0.918	0.000	0.0344	1.003	0.003	0.000
0.029	0.990	0.042	0.905	0.000	0.0316	0.996	0.003	0.000
0.047	0.976	0.052	0.897	0.000	0.0489	0.998	0.004	0.000
0.037	0.993	0.055	0.889	0.000	0.0454	0.981	0.003	0.000
0.051	0.986	0.051	0.910	0.000	0.0319	1.005	0.003	0.000
0.042	0.980	0.040	0.925	0.000	0.0283	1.007	0.003	0.000
0.059	0.972	0.059	0.906	0.000	0.0369	1.010	0.003	0.000
0.061	0.990	0.057	0.898	0.000	0.0339	1.007	0.002	0.000
0.057	0.989	0.052	0.899	0.000	0.0386	1.003	0.003	0.000
0.047	0.987	0.053	0.905	0.000	0.0342	1.003	0.004	0.000
0.047	0.984	0.052	0.902	0.000	0.0365	1.003	0.003	0.000
0.053	0.972	0.054	0.907	0.000	0.0374	1.013	0.003	0.000
0.052	0.979	0.054	0.906	0.000	0.0346	1.006	0.003	0.000
0.042	0.988	0.047	0.905	0.000	0.0332	1.008	0.003	0.000
0.045	0.978	0.053	0.903	0.000	0.0365	1.010	0.003	0.000
0.047	0.964	0.047	0.923	0.000	0.0315	1.017	0.003	0.000
0.053	0.979	0.065	0.891	0.000	0.0420	1.007	0.003	0.000
0.066	0.974	0.064	0.899	0.000	0.0376	1.011	0.003	0.000
0.045	0.962	0.048	0.932	0.000	0.0279	1.021	0.002	0.000
0.046	0.959	0.045	0.935	0.000	0.0258	1.021	0.002	0.001
0.063	0.954	0.067	0.904	0.000	0.0371	1.026	0.003	0.000
0.050	0.935	0.054	0.932	0.000	0.0253	1.038	0.002	0.000
0.071	0.999	0.070	0.884	0.000	0.0369	1.002	0.002	0.000
0.064	0.998	0.066	0.888	0.000	0.0361	0.996	0.005	0.000
0.053	0.980	0.055	0.898	0.000	0.0359	1.012	0.003	0.000
0.039	0.994	0.056	0.898	0.000	0.0394	0.983	0.003	0.000
0.045	0.996	0.057	0.902	0.000	0.0379	0.979	0.003	0.000
0.040	0.976	0.059	0.896	0.000	0.0473	0.985	0.005	0.000
0.032	0.981	0.058	0.896	0.001	0.0493	0.966	0.004	0.000
0.030	0.940	0.052	0.878	0.000	0.0492	1.014	0.007	0.000
0.017	0.978	0.051	0.900	0.000	0.0528	0.948	0.005	0.000
0.025	0.983	0.054	0.890	0.000	0.0533	0.952	0.005	0.000
0.036	0.987	0.055	0.901	0.000	0.0397	0.976	0.003	0.000
0.024	0.992	0.048	0.907	0.000	0.0445	0.957	0.004	0.000
0.020	0.991	0.049	0.906	0.000	0.0473	0.955	0.004	0.000
0.025	0.986	0.048	0.907	0.000	0.0448	0.962	0.004	0.000
0.033	0.995	0.052	0.908	0.000	0.0343	0.980	0.003	0.000

0.040	0.994	0.053	0.900	0.000	0.0446	0.975	0.003	0.000
0.066	0.989	0.063	0.898	0.000	0.0395	1.001	0.002	0.000
0.057	1.002	0.059	0.895	0.000	0.0389	0.994	0.002	0.000
0.024	0.994	0.053	0.896	0.000	0.0459	0.952	0.005	0.001
0.039	0.992	0.044	0.917	0.000	0.0364	0.990	0.003	0.000
0.036	0.969	0.055	0.910	0.000	0.0398	0.996	0.004	0.000
0.043	0.983	0.045	0.916	0.000	0.0308	0.999	0.004	0.000
0.039	0.968	0.086	0.863	0.051	0.0693	0.930	0.003	0.000
0.049	0.989	0.059	0.890	0.000	0.0498	0.972	0.003	0.000
0.033	0.990	0.057	0.887	0.000	0.0580	0.956	0.005	0.000
0.032	0.993	0.052	0.902	0.000	0.0442	0.961	0.003	0.000
0.041	0.991	0.059	0.886	0.000	0.0490	0.974	0.003	0.000
0.041	0.979	0.062	0.887	0.000	0.0584	0.958	0.006	0.000
0.038	0.986	0.050	0.899	0.000	0.0436	0.968	0.004	0.000
0.034	0.986	0.046	0.906	0.000	0.0412	0.976	0.003	0.000
0.027	0.984	0.050	0.906	0.000	0.0397	0.978	0.004	0.000
0.021	0.988	0.049	0.902	0.000	0.0426	0.969	0.003	0.000
0.048	0.980	0.058	0.894	0.000	0.0491	0.983	0.004	0.000
0.051	0.984	0.057	0.901	0.000	0.0411	0.982	0.004	0.000
0.051	0.989	0.054	0.902	0.000	0.0387	0.992	0.003	0.000
0.026	0.987	0.046	0.912	0.000	0.0421	0.974	0.004	0.000
0.037	0.986	0.044	0.909	0.000	0.0383	0.977	0.003	0.000
0.029	0.979	0.044	0.918	0.000	0.0369	0.987	0.003	0.000
0.034	0.986	0.044	0.914	0.000	0.0315	0.992	0.003	0.000
0.035	0.986	0.045	0.918	0.000	0.0299	0.992	0.003	0.000
0.062	0.985	0.059	0.911	0.000	0.0323	1.007	0.001	0.000
0.068	0.978	0.069	0.899	0.000	0.0391	1.008	0.003	0.000
0.058	0.979	0.060	0.899	0.000	0.0395	1.008	0.003	0.000
0.046	0.984	0.055	0.901	0.000	0.0428	1.000	0.003	0.000
0.037	0.980	0.050	0.902	0.000	0.0412	0.996	0.003	0.000
0.029	0.974	0.048	0.906	0.000	0.0339	0.988	0.003	0.000
0.035	0.979	0.044	0.905	0.000	0.0358	0.996	0.003	0.000
0.025	0.982	0.045	0.914	0.000	0.0353	0.986	0.003	0.000
0.060	0.987	0.067	0.902	0.003	0.0346	1.002	0.001	0.000
0.071	0.981	0.062	0.900	0.000	0.0364	1.013	0.002	0.001
0.043	0.998	0.054	0.893	0.000	0.0379	0.990	0.003	0.000
0.028	1.107	0.243	0.733	0.021	0.0609	0.796	0.003	0.003
0.031	0.984	0.049	0.904	0.000	0.0376	0.985	0.004	0.000
0.034	1.000	0.056	0.899	0.000	0.0379	0.977	0.004	0.000
0.045	0.992	0.050	0.898	0.000	0.0411	0.994	0.003	0.000
0.039	0.989	0.048	0.913	0.000	0.0313	0.988	0.004	0.001
0.045	0.991	0.056	0.899	0.000	0.0373	0.996	0.004	0.000
0.059	0.984	0.073	0.878	0.000	0.0385	1.022	0.003	0.001
0.073	0.981	0.073	0.871	0.000	0.0394	1.027	0.003	0.000
0.071	0.977	0.074	0.876	0.000	0.0367	1.030	0.003	0.000
0.068	0.981	0.072	0.879	0.000	0.0393	1.022	0.003	0.000
0.061	0.980	0.071	0.890	0.000	0.0294	1.027	0.001	0.000
0.071	0.982	0.072	0.876	0.000	0.0390	1.021	0.003	0.000

0.064	0.985	0.067	0.876	0.000	0.0408	1.020	0.003	0.001
0.077	0.977	0.075	0.878	0.000	0.0397	1.026	0.002	0.000
0.043	0.982	0.069	0.888	0.000	0.0323	1.023	0.002	0.000
0.064	0.975	0.077	0.882	0.000	0.0302	1.027	0.002	0.000
0.056	0.976	0.058	0.888	0.000	0.0408	1.022	0.004	0.000
0.068	0.984	0.070	0.865	0.000	0.0445	1.023	0.004	0.000
0.032	0.980	0.046	0.895	0.000	0.0367	1.015	0.004	0.000
0.068	0.990	0.063	0.888	0.000	0.0317	1.023	0.002	0.000
0.054	0.983	0.053	0.903	0.000	0.0287	1.025	0.003	0.000
0.052	0.985	0.052	0.905	0.000	0.0256	1.022	0.003	0.000
0.057	0.984	0.059	0.892	0.000	0.0338	1.021	0.003	0.000
0.066	0.977	0.069	0.877	0.000	0.0428	1.021	0.004	0.000
0.066	0.979	0.066	0.880	0.000	0.0401	1.025	0.003	0.000
0.052	0.975	0.056	0.891	0.000	0.0417	1.017	0.004	0.000
0.048	0.973	0.051	0.900	0.000	0.0373	1.022	0.004	0.000
0.050	0.985	0.054	0.897	0.000	0.0328	1.020	0.003	0.000
0.046	0.987	0.060	0.879	0.000	0.0472	0.991	0.005	0.000
0.045	0.996	0.065	0.869	0.000	0.0502	0.977	0.004	0.000
0.050	0.983	0.047	0.905	0.000	0.0261	1.029	0.003	0.001
0.034	0.981	0.049	0.897	0.000	0.0355	1.009	0.004	0.000
0.051	0.981	0.057	0.890	0.000	0.0389	1.020	0.004	0.000
0.061	0.979	0.062	0.892	0.000	0.0387	1.019	0.004	0.000
0.059	0.984	0.073	0.878	0.000	0.0385	1.022	0.003	0.001
0.073	0.981	0.073	0.872	0.000	0.0394	1.027	0.003	0.000
0.071	0.977	0.074	0.876	0.000	0.0367	1.030	0.003	0.000
0.068	0.981	0.072	0.879	0.000	0.0393	1.022	0.003	0.000
0.061	0.980	0.071	0.890	0.000	0.0294	1.027	0.001	0.000
0.071	0.982	0.072	0.876	0.000	0.0390	1.021	0.003	0.000
0.064	0.985	0.067	0.876	0.000	0.0408	1.020	0.003	0.001
0.077	0.977	0.075	0.878	0.000	0.0397	1.026	0.002	0.000
0.043	0.982	0.069	0.888	0.000	0.0323	1.024	0.002	0.000
0.064	0.976	0.077	0.882	0.000	0.0302	1.028	0.002	0.000
0.056	0.977	0.058	0.888	0.000	0.0409	1.022	0.004	0.000
0.068	0.985	0.070	0.865	0.000	0.0445	1.023	0.004	0.000
0.068	0.990	0.063	0.889	0.000	0.0317	1.023	0.002	0.000
0.032	0.980	0.046	0.896	0.000	0.0367	1.015	0.004	0.000
0.054	0.983	0.053	0.903	0.000	0.0287	1.025	0.003	0.000
0.052	0.985	0.052	0.905	0.000	0.0256	1.022	0.003	0.000
0.057	0.984	0.059	0.892	0.000	0.0338	1.021	0.003	0.000
0.066	0.977	0.069	0.878	0.000	0.0428	1.022	0.004	0.000
0.066	0.979	0.066	0.880	0.000	0.0401	1.025	0.003	0.000
0.052	0.975	0.056	0.891	0.000	0.0417	1.017	0.004	0.000
0.048	0.974	0.051	0.900	0.000	0.0373	1.022	0.004	0.000
0.050	0.985	0.054	0.897	0.000	0.0328	1.020	0.003	0.000
0.046	0.986	0.060	0.878	0.000	0.0471	0.991	0.005	0.000
0.045	0.995	0.065	0.869	0.000	0.0502	0.976	0.004	0.000
0.050	0.984	0.047	0.905	0.000	0.0261	1.029	0.003	0.001
0.034	0.982	0.049	0.897	0.000	0.0355	1.009	0.004	0.000

0.051	0.981	0.057	0.891	0.000	0.0389	1.021	0.004	0.000
0.061	0.979	0.062	0.892	0.000	0.0387	1.019	0.004	0.000
0.040	0.984	0.048	0.901	0.000	0.0449	0.985	0.003	0.000
0.040	0.983	0.048	0.901	0.000	0.0449	0.985	0.003	0.000
0.041	0.984	0.040	0.915	0.000	0.0409	0.998	0.003	0.000
0.041	0.984	0.040	0.915	0.000	0.0409	0.997	0.003	0.000
0.054	0.982	0.055	0.890	0.000	0.0507	0.997	0.003	0.000
0.054	0.982	0.055	0.890	0.000	0.0507	0.997	0.003	0.000
0.054	0.983	0.051	0.897	0.000	0.0551	0.992	0.003	0.001
0.039	0.987	0.048	0.912	0.000	0.0399	0.969	0.003	0.001
0.046	0.987	0.032	0.932	0.000	0.0279	1.002	0.001	0.000
0.046	0.988	0.032	0.932	0.000	0.0279	1.002	0.001	0.000
0.040	0.986	0.036	0.934	0.000	0.0304	0.988	0.002	0.000
0.054	0.984	0.049	0.899	0.000	0.0553	0.985	0.004	0.000
0.054	0.984	0.049	0.899	0.000	0.0553	0.985	0.004	0.000
0.048	0.978	0.043	0.914	0.000	0.0410	0.993	0.003	0.000
0.048	0.978	0.043	0.914	0.000	0.0410	0.993	0.003	0.000
0.066	0.982	0.053	0.898	0.000	0.0421	1.002	0.004	0.000
0.066	0.982	0.053	0.898	0.000	0.0421	1.002	0.004	0.000
0.062	0.986	0.050	0.902	0.000	0.0469	0.997	0.003	0.000
0.062	0.985	0.050	0.902	0.000	0.0469	0.997	0.003	0.000
0.045	0.983	0.043	0.921	0.000	0.0370	0.989	0.003	0.000
0.045	0.983	0.043	0.921	0.000	0.0370	0.989	0.003	0.000
0.072	0.986	0.060	0.881	0.000	0.0584	0.998	0.003	0.000
0.055	0.981	0.052	0.896	0.000	0.0498	0.997	0.003	0.000
0.055	0.981	0.052	0.897	0.000	0.0499	0.998	0.003	0.000
0.047	0.982	0.055	0.888	0.000	0.0581	0.980	0.003	0.000
0.047	0.982	0.055	0.888	0.000	0.0581	0.980	0.003	0.000
0.032	0.984	0.058	0.894	0.000	0.0476	0.959	0.002	0.000
0.055	0.983	0.054	0.894	0.000	0.0495	0.994	0.003	0.000
0.052	0.984	0.051	0.898	0.000	0.0458	0.998	0.003	0.000
0.052	0.984	0.051	0.899	0.000	0.0458	0.998	0.003	0.000
0.054	0.983	0.060	0.882	0.000	0.0600	0.982	0.003	0.000
0.054	0.984	0.060	0.882	0.000	0.0600	0.982	0.003	0.000
0.049	0.982	0.059	0.879	0.000	0.0642	0.974	0.002	0.000
0.074	0.985	0.061	0.885	0.000	0.0511	1.006	0.003	0.000
0.046	0.988	0.045	0.908	0.000	0.0436	0.990	0.003	0.000
0.046	0.988	0.045	0.908	0.000	0.0436	0.990	0.003	0.000
0.067	0.983	0.051	0.900	0.000	0.0462	1.003	0.003	0.000
0.067	0.983	0.051	0.900	0.000	0.0462	1.003	0.003	0.000
0.051	0.984	0.047	0.909	0.000	0.0441	0.994	0.003	0.000
0.051	0.984	0.047	0.909	0.000	0.0441	0.994	0.003	0.000
0.034	0.984	0.046	0.911	0.000	0.0417	0.976	0.003	0.000
0.034	0.983	0.046	0.911	0.000	0.0417	0.976	0.003	0.000
0.042	0.979	0.046	0.912	0.000	0.0443	0.981	0.003	0.000
0.042	0.979	0.046	0.912	0.000	0.0442	0.981	0.003	0.000

0.047	0.982	0.044	0.914	0.000	0.0421	0.992	0.003	0.000
0.047	0.982	0.044	0.914	0.000	0.0421	0.992	0.003	0.000
0.059	0.984	0.055	0.889	0.000	0.0531	0.998	0.003	0.000
0.059	0.984	0.055	0.889	0.000	0.0531	0.998	0.003	0.000
0.031	0.981	0.048	0.899	0.000	0.0493	0.967	0.002	0.000
0.069	0.982	0.060	0.882	0.000	0.0517	1.000	0.003	0.000
0.069	0.982	0.060	0.882	0.000	0.0517	1.000	0.003	0.000
0.057	0.987	0.055	0.885	0.000	0.0567	0.991	0.003	0.000
0.051	0.975	0.059	0.882	0.000	0.0629	0.981	0.003	0.000
0.044	0.976	0.039	0.932	0.000	0.0313	1.004	0.003	0.000
0.044	0.976	0.039	0.932	0.000	0.0313	1.004	0.003	0.000
0.060	0.984	0.048	0.899	0.000	0.0479	1.000	0.004	0.000
0.053	0.984	0.051	0.896	0.000	0.0530	0.990	0.003	0.000
0.037	0.985	0.055	0.898	0.000	0.0429	0.969	0.003	0.000
0.051	0.969	0.054	0.897	0.000	0.0532	0.991	0.003	0.000
0.041	0.979	0.040	0.923	0.000	0.0377	1.003	0.003	0.000
0.044	0.973	0.042	0.911	0.000	0.0434	1.014	0.004	0.000
0.056	0.977	0.050	0.898	0.000	0.0453	1.011	0.003	0.000
0.048	0.975	0.057	0.890	0.000	0.0505	1.002	0.003	0.000
0.050	0.980	0.037	0.918	0.000	0.0375	1.009	0.005	0.001
0.044	0.974	0.053	0.897	0.000	0.0474	0.994	0.003	0.000
0.045	0.981	0.051	0.894	0.000	0.0453	0.995	0.003	0.000
0.053	0.976	0.059	0.887	0.000	0.0515	0.996	0.003	0.000
0.056	0.973	0.047	0.870	0.000	0.0707	0.991	0.005	0.001
0.045	0.979	0.040	0.908	0.000	0.0434	1.006	0.003	0.000
0.038	0.978	0.047	0.899	0.000	0.0433	0.993	0.003	0.000
0.035	0.977	0.047	0.900	0.000	0.0500	0.990	0.003	0.000
0.041	0.974	0.046	0.905	0.000	0.0509	0.991	0.003	0.000
0.072	0.984	0.051	0.878	0.000	0.0641	1.004	0.004	0.000
0.057	0.978	0.048	0.872	0.000	0.0628	0.994	0.004	0.000
0.050	0.976	0.047	0.871	0.000	0.0660	0.984	0.004	0.000
0.053	0.977	0.055	0.891	0.000	0.0486	0.998	0.003	0.000
0.044	0.977	0.047	0.900	0.000	0.0440	0.996	0.003	0.000
0.046	0.977	0.048	0.902	0.000	0.0449	0.996	0.003	0.000
0.058	0.974	0.046	0.909	0.000	0.0530	1.001	0.004	0.001
0.057	0.985	0.054	0.884	0.000	0.0472	1.001	0.003	0.000
0.057	0.980	0.052	0.890	0.000	0.0469	0.998	0.003	0.000
0.054	0.979	0.046	0.847	0.000	0.0727	0.990	0.005	0.002
0.041	0.970	0.046	0.908	0.000	0.0405	0.997	0.003	0.000
0.064	0.977	0.059	0.879	0.000	0.0515	1.005	0.004	0.000
0.049	0.981	0.046	0.903	0.000	0.0439	0.994	0.003	0.000
0.077	0.978	0.055	0.885	0.000	0.0524	1.003	0.004	0.001
0.047	0.976	0.053	0.895	0.000	0.0463	0.995	0.003	0.000
0.048	0.985	0.049	0.902	0.000	0.0382	1.005	0.003	0.000
0.054	0.983	0.047	0.902	0.000	0.0389	1.010	0.004	0.000
0.038	0.972	0.047	0.910	0.000	0.0420	0.997	0.003	0.000
0.045	0.973	0.038	0.910	0.000	0.0477	1.005	0.003	0.001
0.048	0.971	0.040	0.902	0.000	0.0536	0.999	0.004	0.000

0.096	0.996	0.071	0.868	0.000	0.0531	1.003	0.002	0.001
0.070	0.998	0.053	0.891	0.000	0.0423	1.001	0.003	0.000
0.062	0.996	0.054	0.894	0.000	0.0430	0.998	0.003	0.000
0.056	0.998	0.053	0.893	0.000	0.0439	0.990	0.003	0.000
0.059	0.993	0.060	0.888	0.000	0.0443	0.993	0.002	0.001
0.038	0.997	0.044	0.908	0.000	0.0411	0.975	0.002	0.000
0.055	0.990	0.053	0.890	0.000	0.0564	0.978	0.003	0.000
0.049	0.997	0.052	0.889	0.000	0.0585	0.965	0.002	0.000
0.038	0.993	0.046	0.903	0.000	0.0514	0.967	0.002	0.000
0.037	0.992	0.045	0.907	0.000	0.0451	0.970	0.002	0.000
0.035	0.991	0.054	0.899	0.000	0.0487	0.960	0.002	0.000
0.059	0.995	0.055	0.890	0.000	0.0508	0.981	0.003	0.000
0.044	0.997	0.044	0.914	0.000	0.0366	0.987	0.002	0.000
0.051	0.993	0.046	0.911	0.000	0.0386	0.986	0.003	0.000
0.032	0.989	0.054	0.893	0.000	0.0548	0.956	0.001	0.000
0.039	0.997	0.047	0.909	0.000	0.0403	0.977	0.002	0.000
0.037	0.994	0.057	0.895	0.000	0.0468	0.957	0.002	0.000
0.032	0.988	0.050	0.894	0.000	0.0616	0.951	0.002	0.000
0.051	0.986	0.052	0.893	0.000	0.0500	0.984	0.002	0.000
0.076	0.993	0.059	0.889	0.000	0.0477	1.001	0.003	0.000
0.089	0.998	0.065	0.875	0.000	0.0472	1.005	0.003	0.000
0.044	0.990	0.045	0.910	0.000	0.0399	0.991	0.002	0.000
0.078	0.991	0.058	0.889	0.000	0.0485	0.999	0.003	0.000
0.036	0.987	0.042	0.921	0.000	0.0434	0.981	0.002	0.000
0.052	0.983	0.049	0.909	0.000	0.0462	0.992	0.003	0.000
0.037	0.986	0.047	0.906	0.000	0.0457	0.973	0.002	0.000
0.039	0.985	0.057	0.890	0.000	0.0587	0.945	0.002	0.000
0.033	0.990	0.045	0.911	0.000	0.0371	0.975	0.002	0.000
0.044	0.988	0.044	0.920	0.000	0.0380	0.978	0.002	0.000
0.096	0.995	0.066	0.872	0.000	0.0529	1.006	0.002	0.000
0.054	0.992	0.051	0.899	0.000	0.0436	0.988	0.002	0.000
0.037	1.007	0.048	0.904	0.000	0.0420	0.969	0.003	0.000
0.052	1.010	0.056	0.895	0.000	0.0457	0.973	0.002	0.000
0.060	1.007	0.054	0.896	0.000	0.0433	0.981	0.003	0.000
0.041	1.000	0.052	0.901	0.000	0.0475	0.970	0.002	0.000
0.031	1.002	0.048	0.907	0.000	0.0458	0.952	0.002	0.000
0.029	1.001	0.044	0.913	0.000	0.0420	0.960	0.002	0.000
0.037	0.995	0.048	0.908	0.000	0.0440	0.957	0.002	0.000
0.034	0.996	0.046	0.911	0.000	0.0433	0.973	0.002	0.000
0.055	0.998	0.058	0.888	0.000	0.0454	0.991	0.002	0.000
0.068	0.999	0.060	0.886	0.000	0.0482	0.994	0.002	0.000
0.046	0.998	0.047	0.920	0.000	0.0307	0.985	0.002	0.000
0.044	1.000	0.052	0.899	0.000	0.0458	0.969	0.003	0.000
0.038	0.988	0.050	0.902	0.000	0.0460	0.961	0.002	0.000
0.053	0.991	0.051	0.919	0.000	0.0333	0.987	0.002	0.000
0.031	0.987	0.045	0.925	0.000	0.0393	0.974	0.002	0.000
0.055	0.993	0.052	0.901	0.000	0.0432	0.984	0.003	0.000
0.039	0.991	0.048	0.918	0.000	0.0354	0.979	0.003	0.000

0.057	0.981	0.058	0.898	0.000	0.0463	0.998	0.002	0.001
0.051	0.991	0.051	0.914	0.000	0.0307	0.993	0.002	0.000
0.047	0.994	0.046	0.926	0.000	0.0320	0.987	0.003	0.001
0.042	0.988	0.043	0.934	0.000	0.0324	0.986	0.003	0.000
0.047	0.991	0.054	0.906	0.000	0.0469	0.982	0.003	0.000
0.054	0.994	0.059	0.894	0.000	0.0425	0.992	0.003	0.000
0.062	0.986	0.057	0.905	0.000	0.0530	0.981	0.003	0.001
0.041	0.980	0.049	0.907	0.000	0.0527	0.969	0.002	0.000
0.052	0.983	0.057	0.903	0.000	0.0425	0.975	0.002	0.000
0.055	0.991	0.054	0.903	0.000	0.0405	0.988	0.002	0.000
0.030	0.988	0.043	0.919	0.000	0.0388	0.976	0.002	0.000
0.057	0.988	0.056	0.905	0.000	0.0448	0.980	0.003	0.000
0.072	0.995	0.075	0.885	0.000	0.0385	1.001	0.001	0.000
0.034	0.997	0.057	0.897	0.000	0.0478	0.957	0.002	0.001
0.052	0.996	0.053	0.909	0.000	0.0414	0.976	0.002	0.000
0.060	0.996	0.060	0.894	0.000	0.0449	0.990	0.002	0.000
0.065	1.001	0.056	0.894	0.000	0.0463	0.993	0.003	0.000
0.054	1.001	0.048	0.909	0.000	0.0389	0.985	0.003	0.000
0.070	0.997	0.054	0.898	0.000	0.0429	0.991	0.003	0.000
0.086	1.005	0.061	0.889	0.000	0.0466	0.990	0.002	0.000
0.058	0.997	0.056	0.903	0.000	0.0429	0.984	0.003	0.000
0.038	0.994	0.044	0.912	0.000	0.0469	0.963	0.002	0.000
0.036	0.991	0.048	0.907	0.000	0.0522	0.959	0.002	0.000
0.061	1.000	0.179	0.713	0.166	0.1488	0.776	0.001	0.000
0.035	0.995	0.047	0.916	0.000	0.0436	0.951	0.002	0.000
0.047	0.994	0.044	0.924	0.000	0.0395	0.984	0.003	0.001
0.038	0.987	0.044	0.917	0.000	0.0532	0.959	0.003	0.000
0.040	0.992	0.050	0.913	0.000	0.0501	0.956	0.002	0.000
0.039	0.985	0.045	0.927	0.000	0.0421	0.976	0.003	0.000
0.043	0.976	0.048	0.930	0.000	0.0536	0.963	0.002	0.000
0.034	0.996	0.050	0.914	0.000	0.0568	0.944	0.002	0.000
0.052	0.994	0.056	0.896	0.000	0.0528	0.963	0.002	0.000
0.054	0.997	0.056	0.897	0.001	0.0558	0.962	0.002	0.000
0.042	0.992	0.044	0.918	0.000	0.0454	0.971	0.003	0.001
0.039	0.994	0.048	0.910	0.000	0.0463	0.960	0.002	0.000
0.045	0.988	0.046	0.927	0.000	0.0354	0.984	0.003	0.000
0.053	0.998	0.053	0.898	0.000	0.0511	0.970	0.003	0.000
0.035	1.001	0.048	0.909	0.000	0.0476	0.944	0.002	0.000
0.038	1.002	0.034	0.946	0.000	0.0212	0.985	0.001	0.000
0.033	1.000	0.047	0.913	0.000	0.0452	0.950	0.002	0.000
0.055	1.005	0.057	0.899	0.000	0.0495	0.958	0.002	0.000
0.066	1.004	0.058	0.887	0.000	0.0498	0.983	0.002	0.000
0.058	1.007	0.058	0.893	0.000	0.0535	0.959	0.003	0.000
0.042	1.002	0.041	0.918	0.000	0.0391	0.969	0.002	0.000
0.039	1.005	0.045	0.910	0.000	0.0364	0.980	0.003	0.000
0.039	1.003	0.041	0.915	0.000	0.0370	0.973	0.002	0.000
0.050	1.001	0.049	0.907	0.000	0.0364	0.987	0.002	0.001
0.042	1.001	0.048	0.910	0.000	0.0413	0.971	0.002	0.000

0.042	1.001	0.037	0.920	0.000	0.0385	0.988	0.003	0.000
0.040	0.993	0.044	0.918	0.000	0.0368	0.979	0.002	0.000
0.048	1.005	0.046	0.909	0.000	0.0354	0.987	0.003	0.000
0.050	0.989	0.050	0.917	0.000	0.0347	0.993	0.002	0.000
0.044	1.000	0.044	0.915	0.000	0.0366	0.982	0.002	0.000
0.037	1.000	0.047	0.908	0.000	0.0439	0.966	0.002	0.000
0.052	1.006	0.039	0.917	0.000	0.0372	0.988	0.003	0.001
0.035	1.003	0.046	0.906	0.000	0.0469	0.960	0.002	0.000
0.037	0.992	0.047	0.915	0.000	0.0471	0.957	0.002	0.000
0.046	1.003	0.047	0.925	0.000	0.0406	0.965	0.003	0.000
0.038	0.987	0.048	0.918	0.000	0.0472	0.962	0.003	0.000
0.051	0.997	0.056	0.902	0.000	0.0468	0.980	0.002	0.000
0.059	0.993	0.056	0.906	0.000	0.0435	0.981	0.003	0.000
0.042	0.996	0.046	0.912	0.000	0.0539	0.960	0.002	0.000
0.037	0.995	0.048	0.908	0.000	0.0553	0.947	0.003	0.000
0.036	1.001	0.043	0.923	0.000	0.0366	0.972	0.003	0.000
0.036	0.997	0.046	0.909	0.000	0.0561	0.948	0.002	0.000
0.047	0.998	0.047	0.912	0.000	0.0457	0.968	0.003	0.000
0.042	0.997	0.044	0.924	0.000	0.0332	0.979	0.003	0.001
0.054	1.001	0.051	0.904	0.000	0.0456	0.977	0.002	0.000
0.051	0.998	0.043	0.921	0.000	0.0344	0.982	0.002	0.000
0.064	1.000	0.058	0.890	0.000	0.0452	0.988	0.003	0.000
0.048	1.002	0.051	0.903	0.000	0.0532	0.965	0.002	0.000
0.035	0.996	0.047	0.911	0.000	0.0583	0.944	0.003	0.000
0.049	0.997	0.048	0.908	0.000	0.0559	0.966	0.002	0.000
0.045	0.992	0.047	0.926	0.000	0.0349	0.984	0.003	0.001
0.051	0.993	0.051	0.906	0.000	0.0576	0.965	0.002	0.000
0.054	0.998	0.049	0.914	0.000	0.0430	0.977	0.003	0.000
0.033	0.993	0.048	0.907	0.000	0.0587	0.945	0.002	0.000
0.054	0.999	0.047	0.913	0.000	0.0414	0.980	0.002	0.000
0.059	1.002	0.048	0.911	0.000	0.0406	0.978	0.003	0.000
0.028	1.000	0.051	0.900	0.000	0.0566	0.939	0.002	0.000
0.046	0.996	0.052	0.902	0.000	0.0482	0.963	0.002	0.000
0.043	0.997	0.046	0.917	0.000	0.0374	0.980	0.002	0.000
0.068	0.993	0.054	0.901	0.000	0.0471	0.993	0.002	0.000
0.043	0.998	0.050	0.908	0.000	0.0395	0.982	0.002	0.000
0.042	0.997	0.043	0.917	0.000	0.0378	0.978	0.003	0.000
0.040	0.987	0.054	0.907	0.000	0.0515	0.956	0.002	0.000
0.050	0.994	0.053	0.904	0.000	0.0466	0.966	0.002	0.000
0.046	0.998	0.050	0.906	0.000	0.0476	0.968	0.002	0.000
0.048	0.994	0.045	0.925	0.000	0.0389	0.978	0.003	0.000
0.046	0.995	0.046	0.917	0.000	0.0335	0.992	0.003	0.000
0.047	0.996	0.055	0.906	0.000	0.0496	0.956	0.002	0.000
0.045	0.995	0.046	0.920	0.000	0.0337	0.982	0.002	0.000
0.044	0.993	0.044	0.920	0.000	0.0383	0.969	0.002	0.000
0.067	0.989	0.066	0.888	0.000	0.0523	0.963	0.002	0.000
0.039	0.985	0.042	0.934	0.000	0.0342	0.982	0.003	0.000
0.053	0.982	0.050	0.929	0.000	0.0328	0.994	0.002	0.000

0.053	0.973	0.056	0.909	0.000	0.0539	0.973	0.002	0.000
0.046	0.993	0.051	0.902	0.000	0.0517	0.960	0.002	0.000
0.039	0.992	0.039	0.928	0.000	0.0442	0.980	0.003	0.000
0.043	0.997	0.050	0.910	0.000	0.0448	0.964	0.002	0.001
0.054	1.001	0.060	0.895	0.000	0.0512	0.958	0.002	0.000
0.048	0.997	0.051	0.904	0.000	0.0506	0.959	0.002	0.000
0.050	0.995	0.056	0.900	0.000	0.0515	0.961	0.002	0.000
0.047	0.993	0.044	0.924	0.000	0.0428	0.974	0.003	0.000
0.037	0.991	0.045	0.922	0.000	0.0382	0.976	0.002	0.000
0.075	0.992	0.059	0.884	0.000	0.0519	0.984	0.003	0.000
0.043	0.998	0.047	0.911	0.000	0.0446	0.968	0.003	0.000
0.054	1.000	0.049	0.915	0.000	0.0380	0.974	0.002	0.000
0.046	0.994	0.048	0.915	0.000	0.0358	0.980	0.002	0.000
0.055	0.999	0.050	0.912	0.000	0.0389	0.975	0.002	0.000
0.033	0.989	0.045	0.921	0.000	0.0470	0.953	0.002	0.000
0.035	0.988	0.049	0.925	0.000	0.0404	0.958	0.002	0.000
0.047	0.992	0.044	0.929	0.000	0.0331	0.981	0.002	0.000
0.037	0.990	0.044	0.926	0.000	0.0377	0.980	0.002	0.000
0.071	0.992	0.051	0.904	0.000	0.0484	0.990	0.003	0.000
0.051	0.979	0.046	0.924	0.000	0.0347	0.990	0.002	0.000
0.047	0.982	0.050	0.917	0.000	0.0389	0.978	0.002	0.000
0.037	0.980	0.040	0.933	0.000	0.0422	0.966	0.002	0.000
0.033	0.971	0.047	0.923	0.000	0.0466	0.960	0.002	0.000
0.039	0.976	0.044	0.932	0.000	0.0357	0.979	0.002	0.000
0.035	0.995	0.043	0.921	0.000	0.0367	0.973	0.002	0.000
0.042	0.970	0.049	0.931	0.000	0.0384	0.986	0.003	0.000
0.044	0.990	0.045	0.920	0.000	0.0355	0.982	0.002	0.000
0.039	1.004	0.051	0.903	0.000	0.0449	0.955	0.002	0.001
0.027	1.003	0.042	0.922	0.000	0.0388	0.953	0.002	0.000
0.043	1.004	0.044	0.914	0.000	0.0370	0.973	0.003	0.000
0.039	1.004	0.046	0.916	0.000	0.0335	0.974	0.002	0.000
0.038	1.006	0.042	0.914	0.000	0.0353	0.974	0.002	0.001
0.046	0.998	0.046	0.914	0.000	0.0353	0.984	0.003	0.000
0.051	1.003	0.052	0.923	0.000	0.0193	0.992	0.001	0.001
0.040	0.999	0.038	0.933	0.000	0.0239	0.986	0.001	0.001
0.042	1.011	0.040	0.918	0.000	0.0265	0.981	0.001	0.001
0.044	1.006	0.046	0.913	0.000	0.0350	0.976	0.002	0.002
0.053	1.004	0.050	0.906	0.000	0.0403	0.971	0.002	0.000
0.032	1.000	0.025	0.945	0.000	0.0221	0.994	0.002	0.000
0.041	1.001	0.043	0.915	0.000	0.0389	0.972	0.002	0.000
0.038	1.002	0.046	0.913	0.000	0.0391	0.967	0.002	0.000
0.048	1.003	0.045	0.920	0.000	0.0317	0.977	0.003	0.001
0.064	1.006	0.051	0.898	0.000	0.0489	0.983	0.002	0.000
0.055	1.005	0.044	0.914	0.000	0.0369	0.982	0.003	0.001
0.038	1.001	0.042	0.917	0.000	0.0369	0.968	0.003	0.002
0.056	0.997	0.050	0.916	0.000	0.0320	0.985	0.002	0.001
0.059	1.001	0.051	0.905	0.000	0.0440	0.982	0.003	0.001
0.063	1.010	0.063	0.875	0.000	0.0537	0.958	0.002	0.000

0.045	1.008	0.043	0.919	0.000	0.0337	0.975	0.002	0.001
0.034	1.004	0.042	0.920	0.000	0.0370	0.965	0.002	0.000
0.050	1.003	0.043	0.920	0.000	0.0368	0.978	0.003	0.001
0.041	1.009	0.040	0.921	0.000	0.0311	0.981	0.002	0.001
0.045	0.999	0.045	0.912	0.000	0.0358	0.982	0.002	0.000
0.040	0.983	0.048	0.901	0.000	0.0449	0.985	0.003	0.000
0.041	0.984	0.040	0.915	0.000	0.0409	0.997	0.003	0.000
0.054	0.982	0.055	0.890	0.000	0.0507	0.997	0.003	0.000
0.046	0.988	0.032	0.932	0.000	0.0279	1.002	0.001	0.000
0.054	0.984	0.049	0.899	0.000	0.0553	0.985	0.004	0.000
0.048	0.978	0.043	0.914	0.000	0.0410	0.993	0.003	0.000
0.066	0.982	0.053	0.898	0.000	0.0421	1.002	0.004	0.000
0.062	0.985	0.050	0.902	0.000	0.0469	0.997	0.003	0.000
0.045	0.983	0.043	0.921	0.000	0.0370	0.989	0.003	0.000
0.072	0.986	0.060	0.881	0.000	0.0584	0.998	0.003	0.000
0.055	0.981	0.052	0.897	0.000	0.0499	0.998	0.003	0.000
0.047	0.982	0.055	0.888	0.000	0.0581	0.980	0.003	0.000
0.032	0.984	0.058	0.894	0.000	0.0476	0.959	0.002	0.000
0.055	0.983	0.054	0.894	0.000	0.0495	0.994	0.003	0.000
0.052	0.984	0.051	0.899	0.000	0.0458	0.998	0.003	0.000
0.054	0.984	0.060	0.882	0.000	0.0600	0.982	0.003	0.000
0.049	0.982	0.059	0.879	0.000	0.0642	0.974	0.002	0.000
0.074	0.985	0.061	0.885	0.000	0.0511	1.006	0.003	0.000
0.046	0.988	0.045	0.908	0.000	0.0436	0.990	0.003	0.000
0.067	0.983	0.051	0.900	0.000	0.0462	1.003	0.003	0.000
0.051	0.984	0.047	0.909	0.000	0.0441	0.994	0.003	0.000
0.034	0.983	0.046	0.911	0.000	0.0417	0.976	0.003	0.000
0.042	0.979	0.046	0.912	0.000	0.0442	0.981	0.003	0.000
0.047	0.982	0.044	0.914	0.000	0.0421	0.992	0.003	0.000
0.059	0.984	0.055	0.889	0.000	0.0531	0.998	0.003	0.000
0.031	0.981	0.048	0.899	0.000	0.0493	0.967	0.002	0.000
0.069	0.982	0.060	0.882	0.000	0.0517	1.000	0.003	0.000
0.057	0.987	0.055	0.885	0.000	0.0567	0.991	0.003	0.000
0.051	0.975	0.059	0.882	0.000	0.0629	0.981	0.003	0.000
0.044	0.976	0.039	0.932	0.000	0.0313	1.004	0.003	0.000
0.060	0.984	0.048	0.899	0.000	0.0479	1.000	0.004	0.000
0.053	0.984	0.051	0.896	0.000	0.0530	0.990	0.003	0.000
0.037	0.985	0.055	0.898	0.000	0.0429	0.969	0.003	0.000
0.051	0.969	0.054	0.897	0.000	0.0532	0.991	0.003	0.000
0.041	0.979	0.040	0.923	0.000	0.0377	1.003	0.003	0.000
0.036	1.003	0.050	0.903	0.000	0.0486	0.965	0.003	0.000
0.045	0.994	0.038	0.916	0.000	0.0401	0.983	0.003	0.000
0.055	0.995	0.052	0.889	0.000	0.0490	0.983	0.003	0.000
0.035	1.001	0.043	0.922	0.000	0.0372	0.979	0.003	0.000
0.060	0.987	0.051	0.889	0.000	0.0433	0.976	0.002	0.000
0.048	1.002	0.045	0.910	0.000	0.0432	0.977	0.004	0.000
0.041	0.996	0.040	0.916	0.000	0.0343	0.987	0.003	0.000
0.045	0.995	0.038	0.914	0.000	0.0363	0.981	0.004	0.001

0.061	0.992	0.055	0.895	0.000	0.0491	0.988	0.003	0.000
0.059	0.997	0.051	0.900	0.000	0.0463	0.979	0.004	0.000
0.059	1.003	0.052	0.894	0.000	0.0433	0.981	0.003	0.000
0.055	1.003	0.050	0.899	0.000	0.0485	0.975	0.003	0.000
0.043	0.999	0.048	0.907	0.000	0.0512	0.966	0.003	0.000
0.065	0.987	0.055	0.891	0.000	0.0510	0.985	0.003	0.000
0.044	1.001	0.044	0.914	0.000	0.0424	0.976	0.003	0.000
0.045	0.999	0.050	0.902	0.000	0.0503	0.969	0.003	0.000
0.041	0.996	0.037	0.919	0.000	0.0292	0.980	0.003	0.000
0.046	0.995	0.040	0.921	0.000	0.0400	0.983	0.003	0.000
0.039	0.996	0.042	0.921	0.000	0.0426	0.965	0.003	0.000
0.051	0.989	0.045	0.916	0.000	0.0344	0.984	0.003	0.000
0.043	0.997	0.043	0.922	0.000	0.0441	0.976	0.003	0.000
0.033	0.996	0.045	0.919	0.000	0.0429	0.973	0.004	0.000
0.040	0.996	0.037	0.924	0.000	0.0346	0.975	0.003	0.000
0.054	0.996	0.048	0.905	0.000	0.0526	0.982	0.003	0.000
0.068	0.993	0.057	0.878	0.000	0.0591	0.975	0.003	0.000
0.045	0.991	0.039	0.916	0.000	0.0331	0.979	0.002	0.000
0.045	0.987	0.041	0.923	0.000	0.0399	0.984	0.003	0.000
0.062	0.985	0.050	0.901	0.000	0.0526	0.978	0.003	0.000
0.043	0.997	0.049	0.900	0.000	0.0452	0.962	0.003	0.000
0.042	0.996	0.040	0.918	0.000	0.0355	0.975	0.005	0.000
0.063	0.991	0.055	0.881	0.000	0.0600	0.970	0.003	0.000
0.040	0.988	0.040	0.925	0.000	0.0371	0.986	0.003	0.000
0.049	0.994	0.047	0.908	0.000	0.0383	0.985	0.003	0.000
0.033	0.994	0.048	0.906	0.000	0.0457	0.955	0.002	0.000
0.030	0.992	0.049	0.899	0.000	0.0506	0.948	0.002	0.000
0.050	0.990	0.050	0.906	0.000	0.0482	0.975	0.003	0.000
0.047	0.994	0.044	0.914	0.000	0.0366	0.985	0.003	0.001
0.046	0.991	0.047	0.919	0.000	0.0344	0.982	0.003	0.000
0.063	0.999	0.052	0.895	0.000	0.0465	0.982	0.004	0.000
0.036	0.994	0.045	0.920	0.000	0.0328	0.978	0.003	0.000
0.034	0.994	0.050	0.895	0.000	0.0482	0.952	0.002	0.000
0.064	0.988	0.052	0.895	0.000	0.0504	0.988	0.003	0.000
0.051	0.994	0.051	0.900	0.000	0.0500	0.972	0.002	0.000
0.052	0.991	0.055	0.895	0.000	0.0524	0.961	0.002	0.000
0.067	0.992	0.053	0.896	0.000	0.0490	0.989	0.003	0.000
0.049	0.999	0.039	0.919	0.000	0.0369	0.986	0.003	0.000
0.045	0.985	0.041	0.918	0.000	0.0399	0.985	0.004	0.000
0.045	0.983	0.042	0.911	0.000	0.0408	0.995	0.003	0.000
0.031	0.975	0.051	0.907	0.000	0.0520	0.955	0.002	0.000
0.034	0.993	0.046	0.908	0.000	0.0447	0.960	0.002	0.000
0.048	0.987	0.046	0.906	0.000	0.0443	0.985	0.003	0.000
0.043	0.999	0.041	0.915	0.000	0.0338	0.987	0.003	0.000
0.049	1.000	0.040	0.912	0.000	0.0408	0.979	0.003	0.000
0.037	0.993	0.050	0.893	0.000	0.0522	0.951	0.002	0.000
0.035	0.984	0.050	0.898	0.000	0.0556	0.951	0.002	0.000
0.037	0.998	0.048	0.902	0.000	0.0450	0.959	0.002	0.000

0.057	0.997	0.056	0.880	0.000	0.0563	0.974	0.003	0.000
0.060	0.999	0.056	0.884	0.000	0.0521	0.984	0.003	0.000
0.062	0.995	0.056	0.889	0.000	0.0493	0.985	0.003	0.000
0.055	0.991	0.052	0.902	0.000	0.0441	0.988	0.003	0.000
0.050	0.998	0.049	0.900	0.000	0.0446	0.979	0.003	0.000
0.037	0.998	0.039	0.925	0.000	0.0332	0.977	0.003	0.000
0.044	1.000	0.042	0.903	0.000	0.0433	0.974	0.004	0.000
0.058	0.986	0.050	0.904	0.000	0.0447	0.992	0.003	0.000
0.058	1.000	0.052	0.896	0.000	0.0479	0.977	0.003	0.000
0.047	0.987	0.056	0.894	0.000	0.0486	0.967	0.003	0.000
0.041	0.997	0.048	0.912	0.000	0.0371	0.978	0.003	0.000
0.036	0.994	0.042	0.919	0.000	0.0366	0.976	0.003	0.000
0.053	1.002	0.043	0.911	0.000	0.0382	0.984	0.004	0.000
0.043	1.020	0.041	0.898	0.000	0.0398	0.982	0.003	0.000
0.048	0.985	0.040	0.922	0.000	0.0364	0.994	0.002	0.000
0.045	0.995	0.042	0.917	0.000	0.0338	0.990	0.003	0.000
0.050	0.992	0.043	0.909	0.000	0.0363	0.992	0.003	0.001
0.039	0.998	0.046	0.896	0.000	0.0407	0.981	0.004	0.000
0.050	0.994	0.044	0.905	0.000	0.0422	0.992	0.003	0.001
0.048	0.998	0.046	0.905	0.000	0.0396	0.988	0.003	0.000
0.067	0.999	0.049	0.893	0.000	0.0479	0.989	0.004	0.000
0.064	0.998	0.048	0.895	0.000	0.0459	0.991	0.003	0.001
0.064	1.001	0.051	0.897	0.000	0.0437	0.989	0.003	0.000
0.049	0.991	0.052	0.893	0.000	0.0530	0.970	0.002	0.000
0.059	1.004	0.051	0.895	0.000	0.0423	0.987	0.003	0.000
0.037	0.995	0.045	0.908	0.000	0.0415	0.967	0.003	0.000
0.072	1.003	0.047	0.889	0.000	0.0530	0.992	0.004	0.001
0.065	0.993	0.051	0.895	0.000	0.0451	0.996	0.004	0.000
0.043	1.007	0.044	0.918	0.000	0.0391	0.989	0.001	0.000
0.063	1.002	0.054	0.902	0.000	0.0435	0.996	0.001	0.000
0.061	0.994	0.055	0.886	0.000	0.0506	0.986	0.004	0.000
0.074	0.995	0.056	0.884	0.000	0.0510	0.986	0.004	0.001
0.068	0.993	0.051	0.882	0.000	0.0549	0.987	0.003	0.000
0.051	0.997	0.045	0.909	0.000	0.0400	0.987	0.003	0.001
0.044	0.994	0.043	0.920	0.000	0.0379	0.986	0.003	0.000
0.062	0.998	0.052	0.895	0.000	0.0469	0.991	0.003	0.000
0.067	0.996	0.049	0.895	0.000	0.0475	0.992	0.004	0.000
0.074	0.997	0.057	0.886	0.000	0.0461	0.981	0.003	0.006
0.049	1.001	0.044	0.911	0.000	0.0384	0.978	0.003	0.000
0.050	1.003	0.047	0.909	0.000	0.0397	0.982	0.002	0.000
0.040	0.998	0.044	0.923	0.000	0.0340	0.981	0.004	0.000
0.055	0.996	0.047	0.910	0.000	0.0411	0.989	0.003	0.000
0.053	0.994	0.046	0.906	0.000	0.0398	0.981	0.004	0.000
0.070	0.992	0.055	0.891	0.000	0.0485	0.985	0.004	0.000
0.079	0.996	0.051	0.884	0.000	0.0512	0.986	0.003	0.000
0.062	1.000	0.057	0.891	0.000	0.0464	0.988	0.003	0.000
0.041	1.001	0.046	0.906	0.000	0.0398	0.980	0.003	0.000
0.068	0.993	0.054	0.893	0.000	0.0477	0.992	0.003	0.000

0.056	0.997	0.045	0.903	0.000	0.0444	0.989	0.004	0.001
0.048	1.002	0.038	0.917	0.000	0.0392	0.983	0.003	0.000
0.075	0.991	0.054	0.880	0.000	0.0551	0.984	0.003	0.000
0.047	1.002	0.041	0.916	0.000	0.0368	0.982	0.004	0.000
0.061	0.997	0.047	0.905	0.000	0.0408	0.991	0.004	0.001
0.057	0.998	0.048	0.902	0.000	0.0428	0.984	0.004	0.000
0.069	0.996	0.056	0.890	0.000	0.0508	0.989	0.004	0.000
0.037	0.990	0.040	0.923	0.000	0.0348	0.984	0.003	0.001
0.048	1.000	0.047	0.908	0.000	0.0438	0.985	0.003	0.000
0.050	1.001	0.046	0.913	0.000	0.0359	0.981	0.003	0.000
0.041	0.997	0.038	0.923	0.000	0.0344	0.988	0.003	0.000
0.047	1.006	0.041	0.914	0.000	0.0373	0.973	0.003	0.000
0.073	0.999	0.053	0.887	0.000	0.0490	0.985	0.004	0.001
0.072	0.995	0.052	0.897	0.000	0.0433	1.006	0.002	0.000
0.054	0.995	0.048	0.899	0.000	0.0460	0.987	0.003	0.000
0.049	0.992	0.054	0.882	0.000	0.0605	0.952	0.002	0.000
0.044	1.002	0.062	0.862	0.000	0.0665	0.936	0.002	0.000
0.052	0.994	0.047	0.908	0.000	0.0415	0.985	0.003	0.000
0.048	0.997	0.049	0.909	0.000	0.0365	0.981	0.002	0.000
0.044	0.989	0.049	0.897	0.000	0.0533	0.970	0.003	0.000
0.051	0.994	0.046	0.908	0.000	0.0375	0.990	0.002	0.000
0.041	0.994	0.041	0.915	0.000	0.0434	0.984	0.003	0.000
0.049	0.999	0.054	0.902	0.000	0.0387	0.985	0.003	0.000
0.051	0.994	0.048	0.906	0.000	0.0402	0.984	0.002	0.000
0.065	0.994	0.052	0.899	0.000	0.0395	0.998	0.002	0.001
0.060	0.996	0.047	0.898	0.000	0.0451	0.992	0.002	0.000
0.058	0.990	0.046	0.895	0.000	0.0512	0.990	0.003	0.000
0.069	0.995	0.049	0.887	0.000	0.0568	0.984	0.003	0.002
0.040	0.994	0.047	0.905	0.000	0.0477	0.966	0.002	0.000
0.054	0.984	0.042	0.925	0.000	0.0292	1.004	0.003	0.000
0.057	0.997	0.048	0.890	0.000	0.0543	0.986	0.003	0.000
0.033	0.988	0.042	0.911	0.000	0.0521	0.969	0.002	0.000
0.063	0.995	0.053	0.886	0.000	0.0574	0.980	0.003	0.000
0.043	0.995	0.039	0.918	0.000	0.0335	0.992	0.002	0.000
0.051	0.996	0.041	0.913	0.000	0.0383	0.991	0.003	0.001
0.033	0.991	0.044	0.905	0.000	0.0459	0.971	0.002	0.000
0.045	0.994	0.043	0.912	0.000	0.0389	0.987	0.003	0.000
0.036	0.988	0.052	0.875	0.000	0.0674	0.954	0.002	0.000
0.059	0.992	0.038	0.911	0.000	0.0426	0.997	0.003	0.001
0.039	0.994	0.045	0.906	0.000	0.0462	0.975	0.003	0.000
0.052	0.998	0.050	0.901	0.000	0.0376	0.986	0.003	0.000
0.059	0.995	0.046	0.903	0.000	0.0425	0.989	0.003	0.000
0.057	0.992	0.037	0.918	0.000	0.0384	1.001	0.003	0.000
0.046	0.999	0.054	0.882	0.000	0.0596	0.954	0.002	0.000
0.051	0.988	0.063	0.874	0.000	0.0613	0.959	0.002	0.000
0.054	1.001	0.045	0.901	0.000	0.0444	0.986	0.002	0.000
0.050	0.996	0.040	0.910	0.000	0.0439	0.983	0.003	0.000
0.046	0.993	0.046	0.898	0.000	0.0475	0.989	0.002	0.000

0.043	0.995	0.045	0.907	0.000	0.0388	0.980	0.003	0.000
0.042	0.992	0.057	0.903	0.000	0.0405	0.973	0.003	0.000
0.052	0.989	0.046	0.903	0.000	0.0475	0.985	0.003	0.000
0.064	0.994	0.052	0.902	0.000	0.0467	0.984	0.003	0.000
0.048	0.958	0.068	0.860	0.005	0.1292	0.917	0.006	0.000
0.036	1.045	0.087	0.817	0.000	0.0666	0.881	0.001	0.034
0.050	0.994	0.065	0.862	0.000	0.0686	0.942	0.002	0.000
0.055	0.986	0.055	0.888	0.000	0.0578	0.972	0.002	0.000
0.047	0.994	0.047	0.905	0.000	0.0427	0.984	0.003	0.000
0.056	0.995	0.052	0.904	0.000	0.0438	0.985	0.003	0.000
0.070	1.000	0.048	0.889	0.000	0.0574	0.989	0.004	0.000
0.080	0.993	0.050	0.885	0.000	0.0564	0.993	0.003	0.000
0.057	0.975	0.049	0.912	0.000	0.0703	0.972	0.006	0.000
0.048	0.993	0.045	0.914	0.000	0.0391	0.989	0.003	0.000
0.049	0.992	0.054	0.894	0.000	0.0541	0.969	0.002	0.000
0.047	0.995	0.046	0.900	0.000	0.0492	0.974	0.003	0.000
0.042	0.999	0.043	0.913	0.000	0.0362	0.984	0.002	0.000
0.051	0.991	0.049	0.910	0.000	0.0361	0.994	0.002	0.000
0.047	0.992	0.055	0.889	0.000	0.0501	0.973	0.003	0.000
0.032	0.985	0.049	0.900	0.000	0.0482	0.973	0.003	0.000
0.042	0.987	0.040	0.918	0.000	0.0407	0.985	0.002	0.000
0.077	1.002	0.059	0.876	0.000	0.0561	0.987	0.004	0.000
0.070	0.991	0.051	0.883	0.000	0.0561	0.991	0.003	0.001
0.057	0.958	0.050	0.868	0.000	0.0367	1.059	0.003	0.001
0.042	0.994	0.044	0.915	0.000	0.0391	0.976	0.003	0.000
0.049	0.992	0.048	0.910	0.000	0.0369	0.995	0.002	0.001
0.060	0.995	0.046	0.906	0.000	0.0463	0.988	0.003	0.001
0.046	0.996	0.047	0.911	0.000	0.0351	0.986	0.003	0.000
0.061	0.996	0.050	0.896	0.000	0.0510	0.987	0.003	0.001
0.045	0.993	0.049	0.908	0.000	0.0383	0.987	0.002	0.001
0.054	1.001	0.053	0.895	0.000	0.0412	0.988	0.002	0.001
0.065	0.997	0.060	0.884	0.000	0.0563	0.968	0.003	0.000
0.063	0.995	0.052	0.903	0.000	0.0429	0.984	0.003	0.001
0.059	0.992	0.047	0.907	0.000	0.0409	0.989	0.003	0.001
0.063	0.992	0.049	0.903	0.000	0.0455	0.989	0.003	0.000
0.066	0.998	0.052	0.902	0.000	0.0406	1.001	0.002	0.000
0.053	0.998	0.057	0.873	0.000	0.0599	0.967	0.003	0.000
0.047	0.993	0.046	0.911	0.000	0.0373	0.990	0.002	0.000
0.039	0.991	0.046	0.913	0.000	0.0426	0.969	0.002	0.000
0.042	0.995	0.047	0.914	0.000	0.0370	0.978	0.003	0.000
0.056	0.995	0.051	0.904	0.000	0.0422	0.990	0.002	0.000
0.046	0.988	0.048	0.911	0.000	0.0412	0.989	0.002	0.000
0.036	0.998	0.043	0.913	0.000	0.0395	0.974	0.002	0.000
0.043	0.995	0.046	0.891	0.000	0.0521	0.976	0.003	0.001
0.052	0.997	0.047	0.901	0.000	0.0455	0.979	0.003	0.001
0.059	0.997	0.047	0.908	0.000	0.0372	0.991	0.002	0.001
0.040	0.997	0.045	0.911	0.000	0.0431	0.971	0.003	0.000
0.039	0.995	0.044	0.910	0.000	0.0405	0.976	0.002	0.000

0.035	0.999	0.043	0.915	0.000	0.0361	0.974	0.002	0.000
0.049	1.002	0.048	0.905	0.000	0.0370	0.982	0.002	0.000
0.060	0.996	0.050	0.897	0.000	0.0495	0.989	0.003	0.000
0.042	0.997	0.061	0.883	0.000	0.0576	0.945	0.002	0.000
0.048	0.993	0.042	0.892	0.000	0.0467	0.990	0.002	0.001
0.066	0.994	0.049	0.892	0.000	0.0498	0.993	0.003	0.000
0.089	0.997	0.059	0.885	0.000	0.0504	0.999	0.002	0.000
0.062	0.996	0.049	0.889	0.000	0.0462	0.986	0.002	0.000
0.093	0.984	0.058	0.888	0.000	0.0547	1.003	0.002	0.001
0.043	0.993	0.047	0.906	0.000	0.0399	0.981	0.002	0.000
0.059	0.996	0.051	0.901	0.000	0.0379	0.995	0.003	0.001
0.063	1.003	0.049	0.898	0.000	0.0466	0.982	0.002	0.000
0.064	1.006	0.050	0.886	0.000	0.0513	0.984	0.003	0.000
0.034	0.995	0.049	0.893	0.000	0.0481	0.962	0.003	0.000
0.032	0.992	0.047	0.902	0.000	0.0464	0.965	0.002	0.000
0.046	0.997	0.047	0.905	0.000	0.0362	0.986	0.002	0.000
0.032	0.994	0.047	0.898	0.000	0.0469	0.961	0.003	0.000
0.030	1.010	0.047	0.897	0.000	0.0457	0.956	0.002	0.000
0.044	1.001	0.054	0.883	0.000	0.0539	0.955	0.003	0.000
0.058	0.996	0.056	0.886	0.000	0.0557	0.973	0.003	0.000
0.046	1.001	0.048	0.908	0.000	0.0367	0.984	0.002	0.000
0.044	0.991	0.044	0.914	0.000	0.0368	0.989	0.002	0.000
0.045	0.987	0.046	0.914	0.000	0.0423	0.979	0.002	0.000
0.058	0.993	0.052	0.900	0.000	0.0411	0.995	0.002	0.000
0.044	0.992	0.043	0.913	0.000	0.0423	0.979	0.003	0.001
0.048	0.988	0.041	0.904	0.000	0.0456	0.983	0.003	0.000
0.039	0.983	0.047	0.827	0.000	0.0719	0.974	0.005	0.003
0.071	0.995	0.055	0.892	0.000	0.0454	0.998	0.002	0.000
0.070	0.994	0.051	0.886	0.000	0.0585	0.988	0.003	0.000
0.066	0.994	0.052	0.887	0.000	0.0513	1.001	0.003	0.000
0.077	0.992	0.051	0.893	0.000	0.0508	1.002	0.003	0.000
0.050	0.991	0.048	0.837	0.000	0.0714	0.969	0.004	0.004
0.061	0.992	0.051	0.898	0.000	0.0449	0.989	0.003	0.001
0.066	0.999	0.049	0.892	0.000	0.0497	0.988	0.002	0.000
0.055	1.001	0.044	0.912	0.000	0.0392	0.982	0.002	0.000
0.048	0.998	0.045	0.910	0.000	0.0398	0.976	0.002	0.000
0.056	0.998	0.050	0.897	0.000	0.0465	0.985	0.003	0.000
0.053	0.997	0.050	0.903	0.000	0.0403	0.985	0.002	0.000
0.044	1.000	0.042	0.907	0.000	0.0409	0.977	0.003	0.000
0.052	0.988	0.050	0.900	0.000	0.0443	0.993	0.002	0.000
0.056	1.003	0.053	0.893	0.000	0.0432	0.988	0.002	0.000
0.039	0.999	0.052	0.884	0.000	0.0546	0.956	0.003	0.000
0.061	1.001	0.058	0.880	0.000	0.0621	0.977	0.002	0.000
0.043	0.999	0.046	0.906	0.000	0.0433	0.985	0.003	0.000
0.059	1.014	0.057	0.885	0.000	0.0400	0.982	0.003	0.000
0.052	1.005	0.055	0.889	0.000	0.0505	0.971	0.002	0.000
0.036	1.000	0.047	0.893	0.000	0.0528	0.965	0.002	0.000
0.052	0.998	0.055	0.884	0.000	0.0595	0.983	0.003	0.000

0.043	1.007	0.042	0.902	0.000	0.0449	0.980	0.003	0.000
0.068	1.007	0.056	0.886	0.000	0.0458	0.981	0.002	0.000
0.057	1.001	0.052	0.894	0.000	0.0445	0.977	0.003	0.000
0.047	1.008	0.049	0.895	0.000	0.0413	0.975	0.002	0.000
0.065	1.000	0.057	0.890	0.000	0.0394	0.988	0.003	0.000
0.050	1.001	0.053	0.895	0.000	0.0435	0.972	0.002	0.000
0.041	1.002	0.044	0.905	0.000	0.0390	0.973	0.003	0.000
0.038	1.000	0.048	0.904	0.000	0.0340	0.981	0.002	0.000
0.040	1.002	0.050	0.902	0.000	0.0404	0.969	0.002	0.000
0.045	0.998	0.055	0.897	0.000	0.0377	0.982	0.002	0.000
0.053	1.000	0.054	0.891	0.000	0.0461	0.977	0.003	0.000
0.057	0.999	0.059	0.882	0.000	0.0533	0.971	0.002	0.000
0.066	1.003	0.057	0.884	0.000	0.0506	0.977	0.002	0.000
0.056	1.001	0.053	0.890	0.000	0.0460	0.985	0.003	0.000
0.050	0.998	0.048	0.895	0.000	0.0425	0.984	0.003	0.000
0.053	0.997	0.052	0.898	0.000	0.0422	0.981	0.003	0.000
0.053	0.998	0.049	0.897	0.000	0.0421	0.991	0.002	0.000
0.053	1.006	0.050	0.898	0.000	0.0413	0.978	0.002	0.000
0.065	1.001	0.056	0.893	0.000	0.0409	0.989	0.002	0.000
0.038	0.997	0.048	0.907	0.000	0.0371	0.971	0.003	0.000
0.079	0.994	0.050	0.892	0.000	0.0495	1.005	0.003	0.000
0.080	0.994	0.051	0.893	0.000	0.0520	1.001	0.003	0.000
0.047	0.998	0.050	0.897	0.000	0.0462	0.971	0.003	0.000
0.041	0.993	0.048	0.902	0.000	0.0465	0.962	0.002	0.000
0.054	0.994	0.051	0.899	0.000	0.0424	0.990	0.002	0.001
0.039	0.990	0.045	0.911	0.000	0.0421	0.980	0.003	0.000
0.067	0.995	0.057	0.908	0.000	0.0304	1.001	0.003	0.001
0.080	0.992	0.070	0.897	0.000	0.0271	1.007	0.002	0.000
0.048	1.002	0.052	0.898	0.000	0.0438	0.980	0.003	0.000
0.068	0.996	0.054	0.891	0.000	0.0481	0.991	0.003	0.000
0.044	1.007	0.046	0.902	0.000	0.0383	0.980	0.003	0.000
0.043	0.999	0.051	0.903	0.000	0.0447	0.974	0.002	0.000
0.059	1.005	0.056	0.884	0.000	0.0489	0.968	0.002	0.000
0.041	0.995	0.052	0.906	0.000	0.0447	0.968	0.002	0.000
0.041	0.994	0.047	0.916	0.000	0.0355	0.983	0.003	0.000
0.057	1.000	0.046	0.907	0.000	0.0430	0.994	0.003	0.000
0.054	0.994	0.048	0.901	0.000	0.0447	0.982	0.003	0.000
0.057	0.993	0.049	0.907	0.000	0.0430	0.980	0.002	0.000
0.046	0.998	0.042	0.901	0.000	0.0528	0.972	0.003	0.000
0.055	1.002	0.052	0.895	0.000	0.0462	0.976	0.002	0.000
0.047	1.002	0.047	0.901	0.000	0.0437	0.972	0.003	0.000
0.044	1.000	0.049	0.910	0.000	0.0387	0.971	0.002	0.000
0.065	1.000	0.045	0.906	0.000	0.0474	0.988	0.002	0.000
0.042	0.994	0.052	0.898	0.000	0.0493	0.963	0.002	0.000
0.043	0.997	0.051	0.902	0.000	0.0441	0.979	0.003	0.000
0.038	0.991	0.044	0.917	0.000	0.0383	0.978	0.003	0.000
0.056	0.999	0.052	0.904	0.000	0.0401	0.984	0.002	0.000
0.047	0.994	0.047	0.907	0.000	0.0411	0.977	0.003	0.000

0.052	0.995	0.051	0.902	0.000	0.0452	0.982	0.003	0.000
0.060	0.993	0.047	0.911	0.000	0.0407	0.995	0.003	0.000
0.066	0.995	0.046	0.912	0.000	0.0409	0.996	0.002	0.000
0.053	0.989	0.048	0.903	0.000	0.0494	0.982	0.003	0.001
0.055	0.996	0.042	0.915	0.000	0.0417	0.988	0.003	0.000
0.062	0.994	0.052	0.897	0.000	0.0492	0.998	0.003	0.000
0.077	0.995	0.053	0.896	0.000	0.0517	0.992	0.003	0.000
0.065	0.993	0.050	0.900	0.000	0.0466	0.998	0.003	0.000
0.056	0.992	0.053	0.894	0.000	0.0570	0.969	0.002	0.000
0.067	0.988	0.057	0.889	0.000	0.0561	0.980	0.003	0.000
0.040	0.992	0.041	0.924	0.000	0.0416	0.975	0.002	0.000
0.059	0.993	0.058	0.894	0.000	0.0574	0.966	0.002	0.000
0.070	0.992	0.050	0.899	0.000	0.0504	0.997	0.003	0.000
0.067	0.990	0.058	0.898	0.000	0.0417	0.990	0.002	0.000
0.046	0.993	0.044	0.911	0.000	0.0410	0.977	0.002	0.000
0.061	0.999	0.048	0.904	0.000	0.0443	0.994	0.002	0.000
0.042	0.995	0.045	0.909	0.000	0.0468	0.972	0.003	0.000
0.057	0.998	0.044	0.898	0.000	0.0524	0.992	0.003	0.000
0.052	0.992	0.040	0.923	0.000	0.0334	1.001	0.002	0.000
0.060	0.994	0.048	0.913	0.000	0.0386	0.998	0.002	0.000
0.041	0.985	0.046	0.914	0.000	0.0404	0.980	0.003	0.000
0.058	0.986	0.047	0.915	0.000	0.0389	0.994	0.003	0.000
0.044	0.990	0.037	0.931	0.000	0.0321	0.999	0.003	0.000
0.045	0.998	0.043	0.911	0.000	0.0433	0.971	0.002	0.000
0.042	0.992	0.040	0.917	0.000	0.0349	1.001	0.003	0.000
0.045	0.990	0.046	0.911	0.000	0.0453	0.987	0.002	0.000
0.049	0.989	0.046	0.910	0.000	0.0498	0.981	0.002	0.000
0.068	0.984	0.054	0.902	0.000	0.0468	1.006	0.003	0.000
0.044	0.990	0.043	0.915	0.000	0.0405	0.982	0.002	0.001
0.052	0.992	0.055	0.894	0.000	0.0487	0.997	0.003	0.000
0.054	0.993	0.050	0.903	0.000	0.0434	0.980	0.003	0.000
0.078	0.992	0.051	0.881	0.000	0.0620	0.991	0.003	0.001
0.039	0.988	0.044	0.917	0.000	0.0413	0.978	0.003	0.000
0.051	0.989	0.044	0.918	0.000	0.0430	0.986	0.003	0.000
0.041	0.992	0.042	0.917	0.000	0.0394	0.981	0.003	0.000
0.049	0.987	0.044	0.924	0.000	0.0435	0.984	0.003	0.000
0.049	0.993	0.043	0.912	0.000	0.0432	0.987	0.002	0.000
0.076	0.996	0.051	0.885	0.000	0.0596	0.990	0.003	0.001
0.044	0.983	0.037	0.934	0.000	0.0283	1.006	0.003	0.001
0.065	0.992	0.051	0.903	0.000	0.0467	0.997	0.003	0.000
0.040	0.990	0.042	0.908	0.000	0.0436	0.978	0.002	0.000
0.068	0.992	0.055	0.897	0.000	0.0491	0.999	0.003	0.000
0.054	0.998	0.049	0.904	0.000	0.0439	0.990	0.003	0.000
0.042	0.988	0.036	0.916	0.000	0.0451	0.984	0.003	0.001
0.057	0.992	0.048	0.905	0.000	0.0414	1.003	0.003	0.001
0.048	0.993	0.042	0.906	0.000	0.0526	0.978	0.002	0.000
0.058	0.983	0.054	0.884	0.000	0.0722	0.981	0.002	0.001
0.061	0.988	0.056	0.880	0.000	0.0808	0.972	0.002	0.000

0.062	0.992	0.057	0.876	0.000	0.0696	0.986	0.003	0.000
0.050	0.991	0.043	0.923	0.000	0.0304	1.002	0.003	0.000
0.056	0.998	0.046	0.913	0.000	0.0380	1.000	0.003	0.000
0.049	0.993	0.043	0.911	0.000	0.0458	0.983	0.002	0.001
0.056	0.996	0.045	0.899	0.000	0.0555	0.994	0.003	0.000
0.075	0.994	0.052	0.896	0.000	0.0458	0.994	0.003	0.001
0.056	0.990	0.050	0.899	0.000	0.0454	0.984	0.003	0.000
0.059	1.001	0.053	0.895	0.000	0.0467	0.974	0.002	0.000
0.038	0.991	0.050	0.906	0.000	0.0420	0.973	0.002	0.000
0.051	0.989	0.051	0.902	0.000	0.0449	0.981	0.003	0.000
0.061	0.994	0.056	0.889	0.000	0.0518	0.987	0.002	0.000
0.044	0.986	0.054	0.892	0.000	0.0519	0.973	0.003	0.000
0.037	0.987	0.046	0.914	0.000	0.0393	0.985	0.002	0.000
0.056	0.989	0.046	0.895	0.000	0.0696	0.972	0.003	0.000
0.059	0.990	0.051	0.894	0.000	0.0509	0.978	0.003	0.000
0.070	0.993	0.058	0.905	0.000	0.0366	1.002	0.002	0.000
0.063	0.995	0.049	0.882	0.000	0.0621	0.981	0.003	0.000
0.039	0.988	0.047	0.911	0.000	0.0415	0.992	0.002	0.000
0.048	0.992	0.048	0.909	0.000	0.0438	0.993	0.002	0.001
0.052	0.992	0.049	0.910	0.000	0.0396	0.975	0.002	0.000
0.044	0.973	0.042	0.911	0.000	0.0434	1.013	0.004	0.000
0.056	0.977	0.050	0.898	0.000	0.0453	1.011	0.003	0.000
0.048	0.975	0.057	0.889	0.000	0.0505	1.002	0.003	0.000
0.050	0.979	0.037	0.918	0.000	0.0375	1.009	0.005	0.001
0.044	0.974	0.053	0.897	0.000	0.0474	0.994	0.003	0.000
0.045	0.981	0.051	0.894	0.000	0.0453	0.995	0.003	0.000
0.053	0.976	0.059	0.887	0.000	0.0515	0.996	0.003	0.000
0.055	0.971	0.047	0.869	0.000	0.0706	0.989	0.005	0.001
0.045	0.979	0.040	0.908	0.000	0.0434	1.006	0.003	0.000
0.038	0.978	0.047	0.899	0.000	0.0433	0.993	0.003	0.000
0.035	0.977	0.047	0.900	0.000	0.0500	0.989	0.003	0.000
0.041	0.974	0.046	0.905	0.000	0.0509	0.991	0.003	0.000
0.072	0.983	0.051	0.878	0.000	0.0641	1.004	0.004	0.000
0.057	0.977	0.048	0.871	0.000	0.0627	0.993	0.004	0.000
0.050	0.975	0.047	0.870	0.000	0.0659	0.983	0.004	0.000
0.053	0.977	0.055	0.891	0.000	0.0486	0.998	0.003	0.000
0.044	0.977	0.047	0.900	0.000	0.0440	0.996	0.003	0.000
0.046	0.977	0.048	0.902	0.000	0.0449	0.996	0.003	0.000
0.058	0.974	0.046	0.909	0.000	0.0530	1.001	0.004	0.001
0.057	0.984	0.054	0.883	0.000	0.0472	1.001	0.003	0.000
0.057	0.980	0.052	0.890	0.000	0.0469	0.997	0.003	0.000
0.054	0.976	0.046	0.844	0.000	0.0725	0.987	0.005	0.002
0.041	0.970	0.046	0.908	0.000	0.0405	0.997	0.003	0.000
0.064	0.977	0.059	0.879	0.000	0.0515	1.005	0.004	0.000
0.049	0.981	0.046	0.903	0.000	0.0439	0.994	0.003	0.000
0.077	0.978	0.055	0.884	0.000	0.0524	1.003	0.004	0.001
0.047	0.976	0.053	0.895	0.000	0.0463	0.995	0.003	0.000
0.048	0.984	0.049	0.902	0.000	0.0382	1.005	0.003	0.000

0.054	0.983	0.047	0.902	0.000	0.0389	1.010	0.004	0.000
0.038	0.972	0.047	0.910	0.000	0.0420	0.997	0.003	0.000
0.045	0.972	0.038	0.910	0.000	0.0477	1.005	0.003	0.001
0.048	0.971	0.040	0.902	0.000	0.0536	0.999	0.004	0.000

0.050	0.999	0.054	0.896	0.000	0.0388	0.984	0.002	0.000
0.054	1.002	0.047	0.898		0.0376	0.981	0.003	
0.056	1.005	0.049	0.896		0.0365	0.985	0.003	
0.055	0.996	0.050	0.896	0.001	0.0365	0.988	0.001	
0.055	0.984	0.050	0.900	0.001	0.0375	0.996	0.002	
0.054	0.995	0.053	0.899	0.001	0.0388	0.988	0.002	
0.067	0.998	0.058	0.888		0.0457	0.989	0.002	
0.066	0.997	0.058	0.885	0.000	0.0461	0.992	0.003	
0.067	0.999	0.058	0.887	0.001	0.0448	0.992	0.002	
0.068	0.995	0.059	0.889	0.000	0.0465	0.991	0.002	
0.061	0.993	0.061	0.881	0.001	0.0433	0.990	0.002	
0.062	0.998	0.063	0.879	0.001	0.0444	0.989	0.003	0.000
0.067	0.995	0.062	0.881		0.0461	0.994	0.002	
0.065	0.997	0.060	0.887	0.000	0.0406	0.993	0.002	
0.068	0.999	0.059	0.883	0.000	0.0453	0.989	0.002	
0.061	0.998	0.060	0.884	0.000	0.0421	0.988	0.003	
0.063	0.993	0.065	0.870	0.001	0.0520	0.983	0.005	0.000
0.071	0.999	0.062	0.870	0.001	0.0501	0.989	0.005	
0.074	1.010	0.063	0.883	0.000	0.0091	1.001	0.005	
0.070	1.004	0.064	0.866	0.001	0.0521	0.975	0.005	
0.078	0.997	0.065	0.866	0.001	0.0519	0.982	0.005	
0.065	0.999	0.066	0.857	0.001	0.0543	0.967	0.004	
0.055	0.994	0.067	0.862		0.0542	0.964	0.003	
0.063	0.995	0.065	0.860	0.000	0.0530	0.976	0.005	
0.065	0.992	0.067	0.861	0.001	0.0535	0.967	0.005	
0.061	0.997	0.065	0.871	0.001	0.0497	0.971	0.003	0.000
0.054	0.998	0.066	0.868	0.002	0.0496	0.967	0.004	
0.066	0.994	0.060	0.892	0.001	0.0402	0.989	0.004	
0.074	1.001	0.079	0.885	0.000	0.0379	0.982	0.006	0.002
0.064	0.994	0.072	0.852	0.001	0.0642	0.947	0.004	
0.049	0.996	0.058	0.877	0.000	0.0535	0.964	0.002	
0.048	1.000	0.068	0.857	0.001	0.0613	0.933	0.002	
0.061	0.995	0.078	0.831	0.001	0.0720	0.938	0.005	0.000
0.064	1.002	0.059	0.884		0.0465	0.984	0.002	
0.056	1.000	0.055	0.894	0.000	0.0419	0.984	0.002	
0.047	0.998	0.053	0.898	0.001	0.0392	0.980	0.003	
0.053	1.002	0.052	0.897	0.000	0.0378	0.982	0.003	
0.051	1.002	0.057	0.894	0.000	0.0434	0.979	0.003	
0.050	1.000	0.056	0.889		0.0427	0.982	0.003	
0.052	1.001	0.058	0.891		0.0424	0.979	0.002	
0.053	1.006	0.056	0.882	0.000	0.0431	0.985	0.002	
0.051	1.002	0.057	0.886	0.001	0.0426	0.989	0.003	

0.055	1.001	0.058	0.894		0.0395	0.981	0.002	
0.055	1.008	0.060	0.891	0.000	0.0403	0.978	0.003	
0.057	1.007	0.056	0.893		0.0409	0.981	0.002	
0.055	1.006	0.060	0.890		0.0404	0.981	0.002	0.000
0.060	1.008	0.060	0.882		0.0439	0.984	0.002	
0.059	1.005	0.056	0.888		0.0441	0.983	0.002	
0.068	1.020	0.068	0.880	0.000	0.0463	0.965	0.003	
0.060	1.009	0.059	0.886	0.000	0.0468	0.977	0.002	
0.059	1.010	0.060	0.890	0.001	0.0450	0.972	0.002	
0.054	1.010	0.062	0.876	0.001	0.0472	0.982	0.003	
0.057	1.011	0.067	0.867	0.001	0.0507	0.982	0.002	
0.056	1.002	0.070	0.867	0.001	0.0525	0.983	0.002	0.000
0.054	1.011	0.072	0.874	0.000	0.0525	0.971	0.002	
0.059	1.012	0.070	0.873		0.0516	0.974	0.002	
0.066	1.006	0.068	0.870	0.000	0.0503	0.980	0.003	
0.039	1.002	0.058	0.884		0.0416	0.975	0.003	
0.039	1.006	0.047	0.907	0.000	0.0338	0.978	0.002	
0.040	0.999	0.049	0.910	0.001	0.0350	0.979	0.003	
0.040	1.015	0.067	0.900	0.001	0.0357	0.961	0.002	
0.045	1.017	0.098	0.869	0.002	0.0407	0.944	0.001	
0.060	1.002	0.061	0.886	0.000	0.0433	0.988	0.002	
0.053	1.004	0.059	0.889		0.0442	0.986	0.002	
0.053	1.002	0.061	0.890	0.001	0.0437	0.980	0.002	
0.067	1.011	0.070	0.876	0.001	0.0468	0.974	0.002	
0.077	1.000	0.058	0.875	0.000	0.0506	0.987	0.002	0.001
0.070	0.998	0.058	0.880	0.001	0.0519	0.987	0.004	0.001
0.061	0.995	0.057	0.889	0.001	0.0464	0.986	0.004	0.000
0.059	0.995	0.060	0.891	0.001	0.0440	0.988	0.002	
0.061	0.996	0.062	0.885	0.000	0.0428	0.993	0.002	0.001
0.064	0.997	0.063	0.885	0.001	0.0425	0.990	0.002	
0.062	0.996	0.059	0.886	0.000	0.0445	0.994	0.003	
0.061	0.997	0.059	0.890	0.000	0.0409	0.991	0.003	
0.058	0.992	0.059	0.894		0.0410	0.992	0.003	
0.062	0.993	0.059	0.887	0.000	0.0435	0.995	0.003	0.001
0.058	1.000	0.060	0.887		0.0390	0.994	0.002	
0.056	1.000	0.054	0.892	0.000	0.0456	0.987	0.003	
0.058	0.999	0.057	0.884		0.0434	0.996	0.002	
0.043	0.991	0.054	0.900		0.0433	0.981	0.001	
0.046	0.992	0.051	0.901	0.000	0.0375	0.989	0.002	
0.052	0.990	0.061	0.895	0.000	0.0377	0.986	0.002	
0.046	0.996	0.056	0.898	0.000	0.0331	0.991	0.002	
0.049	0.996	0.049	0.901		0.0360	0.989	0.001	
0.065	0.998	0.057	0.892		0.0450	0.986	0.002	
0.061	0.998	0.057	0.891	0.001	0.0443	0.988	0.003	
0.066	1.003	0.059	0.884	0.000	0.0445	0.987	0.002	0.001
0.047	0.991	0.055	0.900	0.000	0.0383	0.983	0.002	
0.090	0.990	0.077	0.882	0.000	0.0364	1.006	0.005	0.001

0.051	0.978	0.070	0.862	0.000	0.0661	0.954	0.006	0.000
0.059	0.988	0.065	0.877	0.000	0.0521	0.998	0.004	0.000
0.055	0.979	0.059	0.880	0.000	0.0503	0.991	0.006	0.000
0.079	0.989	0.073	0.884	0.000	0.0330	1.012	0.005	0.001
0.080	0.991	0.074	0.884	0.000	0.0290	1.013	0.005	0.000
0.066	0.976	0.070	0.848	0.000	0.0763	0.962	0.007	0.000
0.062	0.969	0.071	0.855	0.001	0.0753	0.963	0.007	0.000
0.076	0.986	0.058	0.886	0.000	0.0536	0.996	0.004	0.000
0.070	0.975	0.060	0.885	0.000	0.0562	1.002	0.005	0.000
0.056	0.992	0.065	0.867	0.000	0.0644	0.970	0.005	0.000
0.080	0.995	0.060	0.890	0.000	0.0389	1.002	0.007	0.002
0.049	0.988	0.057	0.887	0.000	0.0497	0.993	0.004	0.000
0.053	0.986	0.057	0.898	0.000	0.0416	0.997	0.004	0.000
0.054	0.987	0.064	0.866	0.000	0.0641	0.957	0.006	0.000
0.055	0.990	0.053	0.901	0.000	0.0407	0.984	0.003	0.000
0.055	0.992	0.070	0.849	0.000	0.0703	0.946	0.006	0.000
0.057	0.995	0.057	0.881	0.000	0.0437	0.979	0.006	0.001
0.082	0.994	0.063	0.870	0.000	0.0599	0.988	0.005	0.000
0.053	0.991	0.054	0.897	0.000	0.0415	0.991	0.003	0.000
0.072	0.991	0.063	0.880	0.000	0.0530	0.992	0.003	0.000
0.073	0.995	0.061	0.885	0.000	0.0474	0.990	0.004	0.000
0.074	0.986	0.074	0.849	0.000	0.0741	0.955	0.007	0.000
0.094	0.993	0.070	0.884	0.000	0.0361	1.007	0.006	0.001
0.078	0.992	0.065	0.869	0.000	0.0573	0.992	0.004	0.000
0.048	0.975	0.053	0.895	0.000	0.0418	0.994	0.004	0.000
0.054	0.984	0.054	0.901	0.000	0.0414	0.996	0.003	0.001
0.047	0.975	0.060	0.885	0.000	0.0448	0.996	0.003	0.000
0.078	0.983	0.063	0.881	0.000	0.0491	1.005	0.004	0.000
0.054	1.016	0.073	0.874	0.000	0.0482	0.958	0.003	0.004
0.070	0.984	0.058	0.904	0.000	0.0393	0.989	0.003	0.001
0.083	0.993	0.086	0.863	0.000	0.0388	0.994	0.004	0.001
0.063	0.997	0.054	0.902	0.000	0.0401	0.982	0.004	0.001
0.070	0.988	0.059	0.893	0.000	0.0448	0.996	0.003	0.000
0.059	0.981	0.059	0.889	0.001	0.0476	0.992	0.003	0.003
0.067	0.959	0.056	0.873	0.000	0.0522	0.982	0.002	0.000
0.068	0.981	0.057	0.896	0.000	0.0492	0.999	0.003	0.000
0.047	0.973	0.050	0.909	0.000	0.0418	0.994	0.003	0.000
0.048	0.979	0.055	0.893	0.000	0.0439	0.987	0.003	0.000
0.059	0.998	0.053	0.900	0.000	0.0420	0.977	0.003	0.001
0.056	0.988	0.051	0.910	0.000	0.0384	0.986	0.003	0.000
0.066	0.991	0.056	0.900	0.000	0.0398	0.988	0.003	0.000

Ta apfu	Nb apfu	Y apfu	La apfu	Ce apfu	Nd apfu	Sm apfu	Tot REE apfu	Fe/Al
0.000	0.0100	0.0054	0.0008	0.0044	0.0030	0.0010	0.0092	0.858
0.000	0.0193	0.0102	0.0016	0.0069	0.0045	0.0010	0.0140	1.260
0.001	0.0265	0.0210	0.0018	0.0105	0.0088	0.0031	0.0242	1.291
	0.0136	0.0098	0.0018	0.0069	0.0045	0.0014	0.0146	1.288
0.000	0.0126	0.0084	0.0018	0.0063	0.0039	0.0016	0.0136	1.291
	0.0069	0.0059	0.0022	0.0083	0.0034	0.0006	0.0145	1.263
0.001	0.0087	0.0043	0.0035	0.0083	0.0022	0.0008	0.0148	1.327
	0.0065	0.0022	0.0028	0.0067	0.0032	0.0006	0.0133	1.253
	0.0234	0.0119	0.0021	0.0076	0.0055	0.0018	0.0170	1.314
0.000	0.0231	0.0039	0.0024	0.0102	0.0043	0.0006	0.0175	1.185
0.001	0.0128	0.0020	0.0022	0.0069	0.0033	0.0008	0.0132	1.328
	0.0131	0.0018	0.0016	0.0071	0.0032	0.0010	0.0129	1.362
	0.0137	0.0016	0.0016	0.0071	0.0014	0.0006	0.0107	1.346
	0.0190	0.0010	0.0018	0.0090	0.0029		0.0137	1.240
0.001	0.0333	0.0032	0.0022	0.0067	0.0030	0.0016	0.0135	1.070
0.001	0.0442	0.0008	0.0036	0.0118	0.0022		0.0176	1.286
	0.0142	0.0012	0.0022	0.0056	0.0014		0.0092	1.115
0.001	0.0478	0.0008	0.0024	0.0098	0.0022	0.0002	0.0146	1.267
0.001	0.0384	0.0004	0.0016	0.0081	0.0022	0.0002	0.0121	1.482
0.001	0.0449	0.0006	0.0033	0.0102	0.0014	0.0006	0.0155	1.402
0.005	0.0513	0.0217	0.0010	0.0051	0.0090	0.0033	0.0184	0.994
0.007	0.0511	0.0228	0.0002	0.0060	0.0093	0.0027	0.0182	1.084
0.003	0.0471	0.0219	0.0006	0.0048	0.0085	0.0027	0.0166	0.980
0.003	0.0251	0.0036	0.0008	0.0061	0.0034	0.0006	0.0109	0.860
	0.0145	0.0006	0.0020	0.0057	0.0018	0.0008	0.0103	1.083
0.003	0.0399	0.0132	0.0010	0.0076	0.0062	0.0008	0.0156	0.982
0.005	0.0571	0.0217	0.0010	0.0058	0.0098	0.0033	0.0199	0.921
	0.0492	0.0051	0.0010	0.0061	0.0045	0.0010	0.0126	0.904
0.002	0.0327	0.0085	0.0016	0.0075	0.0035	0.0012	0.0138	0.826
	0.0166	0.0028	0.0024	0.0075	0.0034	0.0008	0.0141	0.918
	0.0159	0.0018	0.0018	0.0075	0.0034	0.0012	0.0139	0.806
	0.0126	0.0075	0.0022	0.0073	0.0039	0.0012	0.0146	1.253
0.001	0.0231	0.0232	0.0025	0.0076	0.0070	0.0027	0.0198	1.287
	0.0230	0.0288	0.0006	0.0077	0.0092	0.0033	0.0208	1.275
0.002	0.0207	0.0218	0.0021	0.0088	0.0070	0.0027	0.0206	1.250
	0.0205	0.0221	0.0023	0.0085	0.0081	0.0023	0.0212	1.249
0.000	0.0151	0.0136	0.0019	0.0093	0.0062	0.0014	0.0188	1.336
	0.0141	0.0016	0.0024	0.0089	0.0036	0.0002	0.0151	1.025
	0.0483	0.0166	0.0020	0.0074	0.0068	0.0020	0.0182	1.160
	0.0507	0.0166	0.0012	0.0078	0.0072	0.0016	0.0178	1.099
	0.0254	0.0036	0.0008	0.0087	0.0042	0.0004	0.0141	1.096
	0.0244	0.0034	0.0026	0.0107	0.0040	0.0008	0.0181	1.137
	0.0442	0.0033	0.0028	0.0096	0.0045	0.0006	0.0175	1.165
	0.0325		0.0012	0.0044	0.0022		0.0078	1.484

	0.0305	0.0004	0.0010	0.0044	0.0010		0.0064	1.555
	0.0280	0.0004	0.0030	0.0099	0.0042	0.0010	0.0181	1.538
	0.0216	0.0042	0.0014	0.0083	0.0042	0.0016	0.0155	1.166
	0.0207	0.0055	0.0020	0.0079	0.0063	0.0014	0.0176	1.059
	0.0176	0.0043	0.0008	0.0073	0.0065	0.0014	0.0160	1.104
	0.0202	0.0034	0.0012	0.0069	0.0057	0.0008	0.0146	1.025
	0.0198	0.0053	0.0014	0.0075	0.0055	0.0012	0.0156	1.082
	0.0157	0.0066	0.0036	0.0110	0.0066	0.0020	0.0232	0.952
	0.0157	0.0071	0.0025	0.0122	0.0071	0.0025	0.0243	0.904
	0.0240	0.0358	0.0019	0.0079	0.0083	0.0033	0.0214	1.097
	0.0164	0.0075	0.0030	0.0124	0.0077	0.0022	0.0253	0.918
	0.0199	0.0072	0.0024	0.0109	0.0066	0.0008	0.0207	0.867
	0.0447	0.0310	0.0014	0.0068	0.0066	0.0029	0.0177	1.186
	0.0296	0.0239	0.0014	0.0061	0.0074	0.0025	0.0174	1.096
	0.0219	0.0054	0.0012	0.0076	0.0052	0.0014	0.0154	0.983
	0.0205	0.0081	0.0004	0.0065	0.0077	0.0024	0.0170	1.108
	0.0157	0.0054	0.0014	0.0074	0.0060	0.0014	0.0162	1.059
	0.0224	0.0044	0.0022	0.0081	0.0064	0.0018	0.0185	1.017
	0.0141	0.0061	0.0022	0.0117	0.0065	0.0010	0.0214	0.975
	0.0169	0.0071	0.0028	0.0134	0.0081	0.0010	0.0253	0.922
	0.0181	0.0058	0.0042	0.0123	0.0068	0.0018	0.0251	0.974
	0.0163	0.0067	0.0036	0.0125	0.0081	0.0020	0.0262	0.974
	0.0202	0.0077	0.0040	0.0161	0.0101	0.0024	0.0326	0.954
	0.0214	0.0069	0.0036	0.0142	0.0089	0.0024	0.0291	0.954
	0.0186	0.0079	0.0038	0.0133	0.0087	0.0020	0.0278	0.970
	0.0150	0.0071	0.0022	0.0128	0.0075	0.0016	0.0241	0.936
	0.0130	0.0069	0.0024	0.0122	0.0073	0.0018	0.0237	0.851
	0.0125	0.0059	0.0024	0.0119	0.0075	0.0016	0.0234	0.831
	0.0252	0.0029	0.0033	0.0124	0.0055	0.0012	0.0224	1.064
0.000	0.0219	0.0055	0.0037	0.0161	0.0063	0.0016	0.0277	1.086
0.001	0.0224	0.0065	0.0038	0.0138	0.0061	0.0016	0.0253	0.985
0.001	0.0199	0.0053	0.0030	0.0122	0.0055	0.0012	0.0219	0.991
0.001	0.0152	0.0055	0.0026	0.0126	0.0061	0.0018	0.0231	1.015
0.002	0.0185	0.0051	0.0037	0.0124	0.0065	0.0018	0.0244	0.894
0.001	0.0482	0.0157	0.0014	0.0080	0.0063	0.0020	0.0177	1.177
	0.0040	0.0008	0.0010	0.0028	0.0004	0.0010	0.0052	0.832
0.002	0.0667	0.0200	0.0019	0.0126	0.0089	0.0025	0.0259	1.325
0.000	0.0107	0.0042	0.0026	0.0113	0.0048	0.0014	0.0201	1.000
0.001	0.0036		0.0018	0.0038	0.0004		0.0060	0.858
	0.0129	0.0055	0.0024	0.0115	0.0063	0.0008	0.0210	0.948
0.001	0.0151	0.0067	0.0045	0.0136	0.0073	0.0014	0.0268	0.899
0.001	0.0164	0.0063	0.0026	0.0114	0.0075	0.0010	0.0225	0.996
0.001	0.0108	0.0050	0.0054	0.0192	0.0095	0.0013	0.0354	1.087
0.001	0.0138	0.0031	0.0047	0.0213	0.0065	0.0008	0.0333	1.092
	0.0070	0.0014	0.0030	0.0076	0.0032		0.0138	0.968
	0.0116	0.0039	0.0074	0.0194	0.0069	0.0016	0.0353	0.963
0.001	0.0119	0.0042	0.0024	0.0101	0.0056	0.0018	0.0199	1.062

0.001	0.0149	0.0053	0.0037	0.0139	0.0067	0.0008	0.0251	0.929
0.000	0.0161	0.0049	0.0028	0.0108	0.0059	0.0014	0.0209	0.873
	0.0095	0.0016	0.0034	0.0127	0.0038	0.0004	0.0203	0.943
	0.0032	0.0008	0.0024	0.0046	0.0006	0.0008	0.0084	0.838
0.001	0.0132	0.0049	0.0020	0.0091	0.0043	0.0012	0.0166	0.832
	0.0203	0.0059	0.0041	0.0136	0.0065	0.0016	0.0258	0.919
0.000	0.0242	0.0061	0.0030	0.0134	0.0077	0.0010	0.0251	0.924
0.002	0.0132	0.0061	0.0024	0.0106	0.0059	0.0006	0.0195	0.979
0.001	0.0131	0.0053	0.0028	0.0121	0.0069	0.0016	0.0234	0.948
0.000	0.0117	0.0051	0.0026	0.0123	0.0065	0.0006	0.0220	0.912
	0.0132	0.0047	0.0024	0.0110	0.0049	0.0014	0.0197	0.960
	0.0040	0.0002	0.0024	0.0076	0.0014	0.0004	0.0118	1.233
0.001	0.0185	0.0032	0.0032	0.0099	0.0050	0.0016	0.0197	1.165
0.000	0.0133	0.0032	0.0022	0.0079	0.0038	0.0008	0.0147	1.096
	0.0096	0.0026	0.0028	0.0084	0.0038	0.0002	0.0152	1.148
	0.0217	0.0066	0.0026	0.0103	0.0058	0.0012	0.0199	1.168
0.002	0.0114	0.0049	0.0033	0.0112	0.0045	0.0012	0.0202	1.462
0.000	0.0531	0.0043	0.0033	0.0137	0.0051	0.0010	0.0231	1.451
0.002	0.0544	0.0049	0.0041	0.0130	0.0056	0.0008	0.0235	1.494
0.002	0.0300	0.0053	0.0014	0.0069	0.0041	0.0010	0.0134	1.180
0.000	0.0398	0.0049	0.0027	0.0102	0.0051	0.0010	0.0190	1.440
0.002	0.0344	0.0049	0.0028	0.0095	0.0041	0.0006	0.0170	1.154
0.002	0.0299	0.0049	0.0025	0.0088	0.0049	0.0008	0.0170	1.060
0.002	0.0339	0.0039	0.0022	0.0077	0.0045	0.0008	0.0152	1.104
0.002	0.0510	0.0047	0.0027	0.0125	0.0053	0.0004	0.0209	1.511
0.002	0.0324	0.0049	0.0026	0.0104	0.0041	0.0010	0.0181	1.486
0.003	0.0196	0.0043	0.0026	0.0087	0.0040	0.0008	0.0161	1.312
0.002	0.0411	0.0028	0.0036	0.0116	0.0049		0.0201	1.492
0.001	0.0483	0.0029	0.0041	0.0117	0.0053	0.0008	0.0219	1.592
0.001	0.0570	0.0166	0.0010	0.0078	0.0064	0.0027	0.0179	1.149
0.001	0.0502	0.0167	0.0021	0.0078	0.0058	0.0019	0.0176	1.126
0.001	0.0108	0.0020	0.0018	0.0067	0.0035	0.0002	0.0122	1.162
0.001	0.0059	0.0022	0.0016	0.0073	0.0037		0.0126	1.170
0.000	0.0072	0.0026	0.0022	0.0064	0.0034	0.0006	0.0126	1.194
0.001	0.0335	0.0076	0.0016	0.0123	0.0108	0.0016	0.0263	1.283
0.001	0.0263	0.0039	0.0020	0.0098	0.0076	0.0014	0.0208	1.156
	0.0054	0.0002	0.0040	0.0111	0.0022	0.0004	0.0177	1.225
	0.0052	0.0004	0.0028	0.0070	0.0018		0.0116	1.304
0.001	0.0036	0.0014	0.0034	0.0066	0.0020	0.0010	0.0130	0.993
0.001	0.0042	0.0004	0.0032	0.0088	0.0018	0.0002	0.0140	1.342
	0.0228	0.0022	0.0036	0.0119	0.0040	0.0010	0.0205	1.189
	0.0098	0.0016	0.0028	0.0094	0.0026	0.0008	0.0156	1.184
0.001	0.0422	0.0087	0.0008	0.0085	0.0077	0.0014	0.0184	1.144
0.002	0.0064	0.0018	0.0016	0.0076	0.0038	0.0002	0.0132	1.155
0.001	0.0107	0.0028	0.0018	0.0082	0.0034	0.0012	0.0146	1.184
0.001	0.0613	0.0159	0.0016	0.0075	0.0065	0.0016	0.0172	1.201
0.001	0.0324	0.0010	0.0016	0.0076	0.0022	0.0002	0.0116	1.291

	0.0189	0.0010	0.0016	0.0060	0.0016		0.0092	0.791
0.002	0.0386	0.0018	0.0020	0.0072	0.0032	0.0008	0.0132	1.260
0.002	0.0086	0.0018	0.0028	0.0052	0.0022		0.0102	0.715
0.000	0.0149	0.0014	0.0032	0.0066	0.0014	0.0006	0.0118	0.832
	0.0264	0.0020	0.0040	0.0104	0.0040	0.0010	0.0194	1.065
0.001	0.0075	0.0014	0.0032	0.0049	0.0016		0.0097	0.669
0.000	0.0191	0.0020	0.0028	0.0115	0.0054	0.0006	0.0203	0.897
	0.0094	0.0022	0.0028	0.0070	0.0020	0.0006	0.0124	0.735
	0.0082	0.0030	0.0038	0.0076	0.0018	0.0002	0.0134	0.721
	0.0197	0.0060	0.0024	0.0083	0.0054	0.0008	0.0169	1.251
	0.0218	0.0057	0.0022	0.0083	0.0052	0.0016	0.0173	1.264
0.003	0.0739	0.0047	0.0029	0.0125	0.0063	0.0016	0.0233	1.546
0.002	0.0463	0.0069	0.0035	0.0120	0.0065	0.0022	0.0242	1.464
0.000	0.0068	0.0024	0.0040	0.0068	0.0026		0.0134	0.841
	0.0086	0.0010	0.0044	0.0080	0.0010		0.0134	0.841
0.000	0.0026		0.0024	0.0056	0.0002	0.0008	0.0090	0.888
	0.0146		0.0076	0.0116	0.0012		0.0204	0.834
	0.0070		0.0034	0.0066	0.0004		0.0104	0.816
	0.0028		0.0034	0.0046	0.0002		0.0082	0.870
	0.0068	0.0014	0.0042	0.0068	0.0016	0.0002	0.0128	0.829
0.001	0.0120		0.0076	0.0122	0.0022	0.0006	0.0226	1.219
	0.0112		0.0066	0.0126	0.0016	0.0016	0.0224	1.205
0.001	0.0036		0.0038	0.0052	0.0014	0.0008	0.0112	1.285
0.001	0.0058	0.0002	0.0058	0.0092	0.0014	0.0002	0.0166	1.123
0.001	0.0050		0.0032	0.0084	0.0018		0.0134	1.176
	0.0014		0.0026	0.0056	0.0004		0.0086	1.137
	0.0016	0.0004	0.0026	0.0060	0.0018	0.0006	0.0110	1.223
	0.0094	0.0040	0.0090	0.0168	0.0016	0.0006	0.0280	1.327
	0.0111	0.0054	0.0065	0.0169	0.0022	0.0006	0.0262	1.094
	0.0173	0.0057	0.0083	0.0252	0.0026	0.0002	0.0363	1.129
	0.0187	0.0043	0.0087	0.0203	0.0043	0.0012	0.0345	0.871
	0.0082	0.0074	0.0098	0.0259	0.0064	0.0012	0.0433	0.927
	0.0165	0.0058	0.0101	0.0177	0.0042	0.0010	0.0330	1.061
	0.0134	0.0087	0.0071	0.0314	0.0081	0.0030	0.0496	1.083
	0.0104	0.0075	0.0063	0.0254	0.0067	0.0014	0.0398	1.012
	0.0115	0.0083	0.0109	0.0320	0.0075	0.0012	0.0516	1.056
	0.0099	0.0075	0.0052	0.0232	0.0064	0.0002	0.0350	0.989
	0.0074	0.0038	0.0076	0.0220	0.0046	0.0014	0.0356	1.097
	0.0063	0.0049	0.0033	0.0129	0.0065	0.0018	0.0245	0.931
	0.0085	0.0049	0.0041	0.0150	0.0081	0.0016	0.0288	0.986
	0.0085	0.0063	0.0037	0.0132	0.0087	0.0018	0.0274	0.877
0.000	0.0147	0.0065	0.0041	0.0141	0.0069	0.0020	0.0271	1.004
	0.0155	0.0076	0.0022	0.0135	0.0078	0.0016	0.0251	1.015
0.001	0.0155	0.0057	0.0041	0.0110	0.0073	0.0016	0.0240	1.052
0.001	0.0169	0.0059	0.0033	0.0126	0.0061	0.0012	0.0232	1.049

0.000	0.0171	0.0049	0.0018	0.0098	0.0055	0.0006	0.0177	0.987
0.002	0.0193	0.0047	0.0018	0.0098	0.0049	0.0006	0.0171	0.993
0.002	0.0572	0.0064	0.0039	0.0119	0.0068	0.0002	0.0228	1.019
0.002	0.0524	0.0059	0.0033	0.0143	0.0063	0.0012	0.0251	0.994
0.001	0.0219	0.0069	0.0024	0.0097	0.0059	0.0014	0.0194	1.006
	0.0120	0.0067	0.0031	0.0122	0.0065	0.0018	0.0236	0.957
	0.0106	0.0055	0.0026	0.0122	0.0069	0.0018	0.0235	0.866
	0.0061	0.0063	0.0041	0.0161	0.0090	0.0020	0.0312	0.890
0.001	0.0069	0.0053	0.0045	0.0155	0.0086	0.0018	0.0304	0.923
	0.0092	0.0053	0.0039	0.0148	0.0071	0.0004	0.0262	0.918
0.000	0.0113	0.0051	0.0028	0.0103	0.0047	0.0012	0.0190	0.918
0.000	0.0106	0.0051	0.0020	0.0118	0.0055	0.0012	0.0205	1.004
0.001	0.0155	0.0053	0.0036	0.0101	0.0055	0.0012	0.0204	0.954
0.002	0.0141	0.0049	0.0026	0.0125	0.0073	0.0010	0.0234	1.043
0.000	0.0172	0.0057	0.0024	0.0121	0.0067	0.0012	0.0224	0.929
0.002	0.0125	0.0063	0.0029	0.0122	0.0076	0.0012	0.0239	0.967
0.000	0.0174	0.0063	0.0018	0.0139	0.0078	0.0012	0.0247	0.880
0.001	0.0267	0.0080	0.0047	0.0185	0.0115	0.0021	0.0368	0.894
	0.0116	0.0057	0.0030	0.0118	0.0063	0.0010	0.0221	0.969
0.002	0.0075	0.0057	0.0031	0.0118	0.0059	0.0012	0.0220	0.942
	0.0120	0.0047	0.0022	0.0095	0.0043	0.0010	0.0170	0.866
	0.0098	0.0047	0.0030	0.0095	0.0045	0.0010	0.0180	0.968
	0.0084	0.0045	0.0033	0.0100	0.0045	0.0004	0.0182	0.919
0.000	0.0059	0.0051	0.0024	0.0105	0.0049	0.0016	0.0194	0.966
0.000	0.0137	0.0071	0.0033	0.0149	0.0078	0.0014	0.0274	0.890
0.001	0.0141	0.0070	0.0045	0.0143	0.0090	0.0027	0.0305	0.966
0.000	0.0146	0.0078	0.0041	0.0142	0.0082	0.0014	0.0279	0.942
	0.0134	0.0070	0.0043	0.0116	0.0083	0.0017	0.0259	0.943
0.001	0.0104	0.0067	0.0031	0.0153	0.0096	0.0020	0.0300	0.920
	0.0102	0.0074	0.0039	0.0139	0.0100	0.0020	0.0298	0.924
	0.0118	0.0078	0.0029	0.0145	0.0104	0.0026	0.0304	0.897
0.000	0.0096	0.0061	0.0030	0.0138	0.0096	0.0018	0.0282	0.936
	0.0106	0.0065	0.0037	0.0127	0.0102	0.0027	0.0293	0.878
	0.0090	0.0062	0.0027	0.0134	0.0099	0.0014	0.0274	0.989
	0.0111	0.0068	0.0029	0.0128	0.0091	0.0021	0.0269	0.914
	0.0090	0.0063	0.0031	0.0125	0.0092	0.0022	0.0270	0.905
0.002	0.0169	0.0065	0.0037	0.0171	0.0106	0.0018	0.0332	0.723
0.000	0.0177	0.0060	0.0045	0.0173	0.0115	0.0021	0.0354	0.736
	0.0182	0.0066	0.0041	0.0164	0.0112	0.0029	0.0346	0.732
0.000	0.0096	0.0073	0.0027	0.0128	0.0102	0.0018	0.0275	0.934
0.000	0.0090	0.0066	0.0033	0.0135	0.0090	0.0014	0.0272	0.997
0.001	0.0104	0.0061	0.0031	0.0137	0.0092	0.0020	0.0280	0.942
0.000	0.0104	0.0073	0.0029	0.0127	0.0098	0.0021	0.0275	0.936
0.000	0.0211	0.0087	0.0031	0.0184	0.0126	0.0037	0.0378	0.885
0.001	0.0144	0.0078	0.0027	0.0150	0.0113	0.0023	0.0313	0.857
0.001	0.0214	0.0083	0.0041	0.0164	0.0114	0.0027	0.0346	0.866
	0.0086	0.0074	0.0031	0.0132	0.0105	0.0025	0.0293	0.838
0.000	0.0087	0.0083	0.0039	0.0154	0.0096	0.0025	0.0314	0.868

	0.0108	0.0053	0.0020	0.0108	0.0047	0.0014		0.0189	0.868
	0.0077	0.0059	0.0037	0.0144	0.0071	0.0014		0.0266	0.892
	0.0133	0.0053	0.0030	0.0113	0.0057	0.0016		0.0216	0.920
0.001	0.0100	0.0068	0.0035	0.0131	0.0084	0.0014		0.0264	0.805
	0.0092	0.0074	0.0035	0.0148	0.0096	0.0027		0.0306	0.865
0.001	0.0110	0.0065	0.0033	0.0149	0.0092	0.0020		0.0294	0.856
0.001	0.0117	0.0080	0.0027	0.0160	0.0106	0.0025		0.0318	0.846
0.001	0.0131	0.0072	0.0037	0.0139	0.0092	0.0018		0.0286	0.854
0.000	0.0141	0.0065	0.0020	0.0139	0.0098	0.0020		0.0277	0.878
0.000	0.0142	0.0069	0.0039	0.0142	0.0079	0.0018		0.0278	0.925
	0.0154	0.0076	0.0033	0.0156	0.0094	0.0018		0.0301	0.932
0.001	0.0130	0.0064	0.0037	0.0134	0.0095	0.0025		0.0291	0.942
0.001	0.0121	0.0070	0.0035	0.0148	0.0098	0.0027		0.0308	0.909
0.000	0.0125	0.0074	0.0039	0.0156	0.0117	0.0029		0.0341	0.919
	0.0103	0.0072	0.0031	0.0150	0.0107	0.0021		0.0309	0.886
0.000	0.0098	0.0079	0.0035	0.0148	0.0108	0.0027		0.0318	0.828
0.001	0.0124	0.0061	0.0028	0.0124	0.0069	0.0010		0.0231	0.913
0.001	0.0075	0.0057	0.0045	0.0153	0.0075	0.0018		0.0291	0.884
0.000	0.0096	0.0053	0.0035	0.0113	0.0049			0.0197	0.876
	0.0094	0.0055	0.0027	0.0114	0.0012	0.0010		0.0163	0.676
	0.0098	0.0059	0.0024	0.0118	0.0014	0.0010		0.0166	0.880
	0.0095	0.0067	0.0026	0.0138		0.0020		0.0184	0.946
	0.0219	0.0061	0.0037	0.0146	0.0039	0.0016		0.0238	1.021
	0.0247	0.0067	0.0033	0.0147	0.0006	0.0010		0.0196	0.980
	0.0247	0.0065	0.0037	0.0139	0.0008	0.0020		0.0204	0.951
	0.0150	0.0053	0.0026	0.0117	0.0032	0.0022		0.0197	0.989
	0.0109	0.0055	0.0022	0.0109	0.0014	0.0012		0.0157	0.967
	0.0111	0.0051	0.0036	0.0126		0.0014		0.0176	0.852
	0.0117	0.0062	0.0037	0.0109		0.0014		0.0160	0.979
	0.0089	0.0059	0.0026	0.0129		0.0016		0.0171	0.907
	0.0300	0.0074	0.0047	0.0180	0.0012	0.0020		0.0259	0.992
	0.0109	0.0063	0.0034	0.0122		0.0020		0.0176	0.865
	0.0155	0.0070	0.0033	0.0141	0.0008	0.0016		0.0198	0.974
	0.0102	0.0063	0.0035	0.0129	0.0002	0.0016		0.0182	0.963
	0.0075	0.0044	0.0026	0.0109	0.0002	0.0012		0.0149	1.225
	0.0119	0.0052	0.0032	0.0133	0.0012	0.0010		0.0187	1.224
	0.0111	0.0049	0.0032	0.0136		0.0012		0.0180	1.132
	0.0115	0.0051	0.0036	0.0103	0.0004	0.0014		0.0157	2.505
	0.0050	0.0022	0.0018	0.0070		0.0006		0.0094	1.060
	0.0133	0.0051	0.0034	0.0125	0.0018	0.0008		0.0185	1.256
	0.0083	0.0028	0.0036	0.0115	0.0018	0.0008		0.0177	1.253
	0.0118	0.0041	0.0037	0.0142	0.0004	0.0010		0.0193	1.139
	0.0136	0.0045	0.0040	0.0125	0.0006	0.0006		0.0177	1.140
	0.0090	0.0026	0.0030	0.0096		0.0014		0.0140	1.226
	0.0101	0.0036	0.0034	0.0099	0.0014	0.0010		0.0157	1.069
	0.0097	0.0045	0.0041	0.0112	0.0012	0.0010		0.0175	1.255
	0.0213	0.0060	0.0047	0.0154	0.0014	0.0018		0.0233	1.135
	0.0127	0.0053	0.0033	0.0112		0.0016		0.0161	1.085

	0.0115	0.0049	0.0034	0.0121		0.0014	0.0169	1.020
	0.0171	0.0044	0.0028	0.0125	0.0004	0.0010	0.0167	1.327
	0.0036	0.0010	0.0006	0.0030	0.0012		0.0048	1.177
	0.0182	0.0012	0.0022	0.0089	0.0002	0.0008	0.0121	1.281
	0.0180	0.0016	0.0020	0.0052		0.0002	0.0074	1.161
	0.0018	0.0004	0.0004	0.0010			0.0014	0.621
	0.0089	0.0053	0.0026	0.0105	0.0032	0.0006	0.0169	1.023
	0.0097	0.0051	0.0030	0.0107	0.0038	0.0008	0.0183	1.017
	0.0069	0.0051	0.0020	0.0097	0.0057	0.0012	0.0186	0.894
	0.0119	0.0046	0.0022	0.0109	0.0059	0.0014	0.0204	0.902
	0.0107	0.0050	0.0042	0.0111	0.0052	0.0014	0.0219	0.954
	0.0087	0.0034	0.0034	0.0101	0.0044	0.0006	0.0185	0.943
	0.0041	0.0096	0.0041	0.0163	0.0112	0.0031	0.0347	1.004
	0.0081	0.0059	0.0035	0.0101	0.0071	0.0016	0.0223	0.947
	0.0070	0.0090	0.0035	0.0154	0.0129	0.0031	0.0349	1.003
	0.0095	0.0040	0.0032	0.0117	0.0046	0.0012	0.0207	0.853
	0.0079	0.0051	0.0038	0.0128	0.0063	0.0010	0.0239	0.931
	0.0097	0.0057	0.0041	0.0132	0.0079	0.0020	0.0272	0.939
	0.0073	0.0053	0.0026	0.0103	0.0063	0.0016	0.0208	0.887
	0.0091	0.0051	0.0032	0.0126	0.0057	0.0006	0.0221	0.951
	0.0143	0.0042	0.0028	0.0109	0.0038	0.0004	0.0179	1.168
	0.0112	0.0038	0.0030	0.0102	0.0044	0.0008	0.0184	1.061
	0.0087	0.0046	0.0026	0.0121	0.0058	0.0010	0.0215	1.024
	0.0081	0.0048	0.0030	0.0131	0.0050	0.0014	0.0225	1.053
	0.0148	0.0069	0.0041	0.0167	0.0092	0.0024	0.0324	1.062
	0.0128	0.0073	0.0041	0.0153	0.0102	0.0024	0.0320	1.030
	0.0122	0.0065	0.0041	0.0144	0.0075	0.0022	0.0282	1.081
	0.0099	0.0057	0.0037	0.0122	0.0059	0.0004	0.0222	1.053
	0.0105	0.0055	0.0032	0.0125	0.0065	0.0014	0.0236	1.063
	0.0115	0.0055	0.0026	0.0117	0.0071	0.0010	0.0224	1.102
	0.0118	0.0046	0.0036	0.0108	0.0052	0.0016	0.0212	1.185
	0.0172	0.0046	0.0034	0.0108	0.0028	0.0010	0.0180	1.446
	0.0201	0.0026	0.0032	0.0095	0.0043		0.0170	1.462
	0.0101	0.0065	0.0028	0.0123	0.0067	0.0022	0.0240	0.939
	0.0139	0.0065	0.0030	0.0121	0.0059	0.0010	0.0220	0.915
	0.0119	0.0079	0.0032	0.0146	0.0095	0.0020	0.0293	0.941
	0.0172	0.0071	0.0024	0.0127	0.0081	0.0010	0.0242	0.871
	0.0142	0.0071	0.0028	0.0130	0.0069	0.0014	0.0241	0.865
	0.0220	0.0066	0.0024	0.0122	0.0058	0.0016	0.0220	0.433
	0.0190	0.0073	0.0032	0.0127	0.0075	0.0018	0.0252	0.774
	0.0213	0.0073	0.0039	0.0144	0.0085	0.0018	0.0286	0.997
	0.0132	0.0073	0.0039	0.0136	0.0096	0.0012	0.0283	0.894
	0.0111	0.0069	0.0028	0.0125	0.0079	0.0010	0.0242	0.829
	0.0132	0.0051	0.0030	0.0130	0.0030	0.0004	0.0194	1.096
0.001	0.0408	0.0040	0.0040	0.0113	0.0016	0.0010	0.0179	1.440
0.001	0.0425	0.0034	0.0044	0.0117	0.0012		0.0173	1.449
0.001	0.0283	0.0036	0.0032	0.0100	0.0018	0.0008	0.0158	1.370
	0.0192	0.0040	0.0038	0.0106	0.0036	0.0006	0.0186	1.277

0.001	0.0156	0.0048	0.0032	0.0102	0.0038	0.0008	0.0180	1.195
0.001	0.0136	0.0042	0.0032	0.0088	0.0038	0.0002	0.0160	1.077
	0.0124	0.0054	0.0032	0.0118	0.0060	0.0016	0.0226	1.096
0.000	0.0137	0.0063	0.0041	0.0175	0.0104	0.0026	0.0346	0.700
0.001	0.0188	0.0065	0.0043	0.0162	0.0075	0.0016	0.0296	0.869
0.001	0.0227	0.0051	0.0041	0.0172	0.0072	0.0008	0.0293	1.212
	0.0148	0.0048	0.0036	0.0112	0.0042	0.0020	0.0210	1.084
0.000	0.0147	0.0034	0.0030	0.0100	0.0048	0.0004	0.0182	1.059
	0.0078	0.0056	0.0032	0.0143	0.0072	0.0014	0.0261	1.093
0.001	0.0104	0.0050	0.0038	0.0122	0.0050	0.0010	0.0220	1.095
0.002	0.0304	0.0040	0.0036	0.0129	0.0012	0.0002	0.0179	1.299
	0.0063	0.0012	0.0020	0.0063	0.0026	0.0002	0.0111	0.342
	0.0060	0.0018	0.0026	0.0078	0.0026	0.0004	0.0134	0.890
	0.0026		0.0004	0.0014	0.0006		0.0024	1.027
	0.0135	0.0042	0.0032	0.0111	0.0040	0.0008	0.0191	1.263
0.000	0.0090	0.0040	0.0020	0.0086	0.0044	0.0002	0.0152	1.024
	0.0086	0.0049	0.0024	0.0108	0.0053	0.0014	0.0199	1.078
0.000	0.0098	0.0059	0.0033	0.0133	0.0084	0.0012	0.0262	1.035
0.000	0.0126	0.0053	0.0031	0.0114	0.0055	0.0002	0.0202	0.992
	0.0130	0.0043	0.0028	0.0124	0.0063	0.0008	0.0223	0.979
0.001	0.0148	0.0051	0.0030	0.0121	0.0061	0.0010	0.0222	0.984
0.001	0.0160	0.0061	0.0036	0.0134	0.0063	0.0018	0.0251	1.054
0.001	0.0171	0.0043	0.0022	0.0120	0.0061	0.0016	0.0219	0.938
	0.0179	0.0048	0.0026	0.0111	0.0056	0.0008	0.0201	0.918
	0.0161	0.0047	0.0035	0.0108	0.0041	0.0006	0.0190	0.930
0.000	0.0141	0.0045	0.0041	0.0131	0.0055	0.0012	0.0239	0.924
0.000	0.0321	0.0049	0.0041	0.0169	0.0070	0.0014	0.0294	0.902
0.001	0.0322	0.0050	0.0043	0.0163	0.0066	0.0012	0.0284	0.993
0.000	0.0113	0.0055	0.0027	0.0102	0.0045	0.0010	0.0184	0.930
	0.0123	0.0040	0.0030	0.0105	0.0052	0.0006	0.0193	0.987
0.000	0.0145	0.0048	0.0024	0.0099	0.0042	0.0010	0.0175	1.140
	0.0159	0.0032	0.0038	0.0111	0.0038	0.0006	0.0193	0.989
	0.0142	0.0028	0.0028	0.0105	0.0034	0.0002	0.0169	0.955
	0.0132	0.0036	0.0032	0.0082	0.0042	0.0004	0.0160	0.941
	0.0092	0.0024	0.0018	0.0074	0.0024	0.0004	0.0120	1.039
	0.0095	0.0032	0.0018	0.0080	0.0036	0.0004	0.0138	0.889
	0.0185	0.0051	0.0030	0.0114	0.0061	0.0016	0.0221	0.920
0.000	0.0180	0.0045	0.0030	0.0117	0.0053	0.0004	0.0204	0.949
	0.0176	0.0055	0.0030	0.0121	0.0063	0.0010	0.0224	0.930
0.000	0.0182	0.0045	0.0036	0.0101	0.0053	0.0012	0.0202	0.923
0.000	0.0105	0.0050	0.0028	0.0117	0.0056	0.0002	0.0203	0.935
0.000	0.0095	0.0053	0.0039	0.0144	0.0063	0.0006	0.0252	0.921
0.001	0.0080	0.0045	0.0033	0.0106	0.0057	0.0006	0.0202	0.885
0.001	0.0131	0.0045	0.0036	0.0123	0.0049	0.0002	0.0210	1.078
	0.0137	0.0052	0.0014	0.0111	0.0052	0.0010	0.0187	0.949
0.000	0.0136	0.0052	0.0020	0.0092	0.0048	0.0006	0.0166	0.944
0.001	0.0134	0.0048	0.0026	0.0096	0.0064	0.0012	0.0198	0.858
	0.0128	0.0058	0.0018	0.0100	0.0060	0.0012	0.0190	0.910

0.001	0.0140	0.0054	0.0026	0.0100	0.0056	0.0016	0.0198	0.917
0.000	0.0116	0.0050	0.0026	0.0124	0.0062	0.0016	0.0228	0.916
	0.0138	0.0052	0.0022	0.0102	0.0062	0.0010	0.0196	0.929
0.000	0.0149	0.0054	0.0032	0.0102	0.0058	0.0016	0.0208	0.989
0.000	0.0215	0.0067	0.0034	0.0134	0.0069	0.0024	0.0261	0.907
0.001	0.0165	0.0062	0.0022	0.0121	0.0068	0.0014	0.0225	0.931
	0.0105	0.0067	0.0034	0.0133	0.0085	0.0014	0.0266	0.892
	0.0101	0.0061	0.0020	0.0119	0.0069	0.0014	0.0222	0.919
	0.0180	0.0055	0.0034	0.0115	0.0067	0.0014	0.0230	0.900
0.002	0.0169	0.0063	0.0028	0.0127	0.0071	0.0018	0.0244	1.004
	0.0138	0.0052	0.0030	0.0106	0.0060	0.0014	0.0210	0.918
0.000	0.0129	0.0047	0.0028	0.0111	0.0069	0.0006	0.0214	0.949
0.001	0.0165	0.0064	0.0040	0.0155	0.0066	0.0018	0.0279	1.000
	0.0177	0.0061	0.0028	0.0147	0.0083	0.0012	0.0270	0.984
0.002	0.0185	0.0044	0.0040	0.0145	0.0074	0.0014	0.0273	0.816
	0.0161	0.0050	0.0024	0.0145	0.0075	0.0012	0.0256	0.811
	0.0194	0.0057	0.0051	0.0190	0.0095	0.0022	0.0358	0.842
	0.0148	0.0053	0.0055	0.0191	0.0092	0.0018	0.0356	0.831
0.000	0.0219	0.0047	0.0047	0.0184	0.0083	0.0014	0.0328	0.782
0.001	0.0204	0.0051	0.0059	0.0198	0.0073	0.0018	0.0348	0.823
	0.0113	0.0040	0.0030	0.0135	0.0072	0.0016	0.0253	1.022
	0.0098	0.0039	0.0033	0.0122	0.0063	0.0016	0.0234	1.043
0.000	0.0123	0.0059	0.0030	0.0135	0.0077	0.0016	0.0258	0.969
0.001	0.0117	0.0073	0.0026	0.0125	0.0083	0.0016	0.0250	0.837
0.001	0.0122	0.0079	0.0035	0.0164	0.0116	0.0024	0.0339	0.922
0.002	0.0155	0.0100	0.0043	0.0194	0.0127	0.0027	0.0391	0.903
0.001	0.0228	0.0095	0.0064	0.0216	0.0146	0.0037	0.0463	0.971
	0.0050	0.0012	0.0018	0.0078	0.0018		0.0114	0.783
0.000	0.0194	0.0117	0.0014	0.0089	0.0067	0.0022	0.0192	1.074
	0.0006	0.0010	0.0008	0.0038	0.0012	0.0000	0.0058	0.958
0.000	0.0126	0.0093	0.0039	0.0164	0.0110	0.0030	0.0343	0.859
0.001	0.0094	0.0024	0.0024	0.0068	0.0036	0.0014	0.0142	1.020
	0.0068	0.0018	0.0014	0.0058	0.0030	0.0006	0.0108	1.009
0.000	0.0223	0.0094	0.0002	0.0066	0.0070	0.0016	0.0154	0.781
0.002	0.0174	0.0144	0.0014	0.0087	0.0081	0.0026	0.0208	1.017
	0.0014	0.0010	0.0002	0.0024	0.0008		0.0034	0.978
	0.0113	0.0072	0.0031	0.0154	0.0096	0.0025	0.0306	0.873
	0.0068	0.0024	0.0016	0.0082	0.0032	0.0006	0.0136	0.890
0.001	0.0022			0.0018	0.0006		0.0024	1.042
	0.0058	0.0026	0.0032	0.0080	0.0028	0.0008	0.0148	0.992
0.001	0.0172	0.0172	0.0014	0.0074	0.0090	0.0023	0.0201	1.060
	0.0165	0.0042	0.0006	0.0056	0.0044	0.0014	0.0120	0.729
	0.0094	0.0090	0.0031	0.0172	0.0123	0.0027	0.0353	0.912
	0.0134	0.0077	0.0032	0.0114	0.0081	0.0016	0.0243	0.904
0.000	0.0130	0.0109	0.0041	0.0175	0.0128	0.0031	0.0375	0.876
0.002	0.0137	0.0094	0.0035	0.0164	0.0090	0.0027	0.0316	0.872
0.001	0.0239	0.0105	0.0054	0.0212	0.0128	0.0027	0.0421	0.995
0.001	0.0131	0.0082	0.0041	0.0145	0.0096	0.0020	0.0302	0.925

	0.0075	0.0079	0.0028	0.0138	0.0083	0.0018	0.0267	0.852
0.000	0.0105	0.0038	0.0028	0.0091	0.0026	0.0008	0.0153	0.907
0.000	0.0260	0.0048	0.0030	0.0109	0.0040	0.0006	0.0185	1.003
	0.0139	0.0062	0.0020	0.0113	0.0062	0.0018	0.0213	0.966
0.000	0.0149	0.0065	0.0028	0.0121	0.0069	0.0012	0.0230	0.943
	0.0249	0.0071	0.0033	0.0159	0.0088	0.0018	0.0298	1.010
0.001	0.0357	0.0081	0.0039	0.0142	0.0077	0.0018	0.0276	1.035
0.000	0.0260	0.0081	0.0035	0.0144	0.0075	0.0022	0.0276	1.000
0.001	0.0174	0.0065	0.0022	0.0113	0.0057	0.0016	0.0208	0.984
0.001	0.0226	0.0084	0.0029	0.0165	0.0081	0.0016	0.0291	0.975
0.001	0.0200	0.0065	0.0034	0.0111	0.0059	0.0008	0.0212	1.017
0.000	0.0175	0.0063	0.0028	0.0116	0.0073	0.0016	0.0233	0.992
0.001	0.0160	0.0071	0.0026	0.0138	0.0081	0.0020	0.0265	0.925
0.001	0.0201	0.0035	0.0033	0.0152	0.0061	0.0014	0.0260	1.048
	0.0222	0.0057	0.0024	0.0153	0.0075	0.0010	0.0262	1.149
	0.0073	0.0024	0.0046	0.0155	0.0050	0.0010	0.0261	1.139
	0.0086	0.0010	0.0024	0.0052	0.0026		0.0102	1.011
	0.0060	0.0016	0.0022	0.0062	0.0026	0.0006	0.0116	1.044
0.002	0.0124	0.0032	0.0034	0.0088	0.0040	0.0002	0.0164	0.905
	0.0177	0.0034	0.0028	0.0096	0.0032	0.0004	0.0160	0.972
0.000	0.0461	0.0018	0.0026	0.0086	0.0014	0.0004	0.0130	1.087
0.001	0.0331	0.0052	0.0028	0.0120	0.0036	0.0002	0.0186	1.117
0.001	0.0721	0.0042	0.0026	0.0119	0.0034	0.0010	0.0189	1.038
0.000	0.0320	0.0022	0.0042	0.0128	0.0036	0.0012	0.0218	1.042
0.001	0.0503	0.0051	0.0026	0.0150	0.0077	0.0014	0.0267	1.173
	0.0117	0.0018	0.0046	0.0145	0.0046	0.0002	0.0239	1.109
	0.0079	0.0006	0.0026	0.0081	0.0026	0.0004	0.0137	1.066
0.001	0.0326	0.0069	0.0034	0.0146	0.0067	0.0014	0.0261	1.073
	0.0051	0.0016	0.0014	0.0045	0.0006		0.0065	0.887
0.000	0.0067	0.0026	0.0020	0.0052	0.0014		0.0086	0.895
	0.0047	0.0010	0.0008	0.0012	0.0008	0.0004	0.0032	0.677
	0.0098	0.0020	0.0012	0.0057	0.0018	0.0002	0.0089	0.888
	0.0012	0.0004	0.0038	0.0057	0.0014	0.0004	0.0113	0.796
0.002	0.0236	0.0081	0.0026	0.0126	0.0071	0.0006	0.0229	0.934
0.001	0.0253	0.0028	0.0026	0.0091	0.0047	0.0002	0.0166	1.021
	0.0320	0.0030	0.0024	0.0130	0.0059	0.0002	0.0215	1.024
0.002	0.0518	0.0031	0.0037	0.0155	0.0063	0.0012	0.0267	1.172
	0.0056	0.0028	0.0024	0.0046	0.0018	0.0006	0.0094	0.520
	0.0103	0.0044	0.0014	0.0079	0.0042	0.0016	0.0151	0.445
0.001	0.0085	0.0018	0.0036	0.0083	0.0032	0.0006	0.0157	0.916
	0.0096	0.0031	0.0020	0.0085	0.0037	0.0012	0.0154	0.827
0.001	0.0050	0.0038	0.0022	0.0082	0.0034	0.0008	0.0146	1.039
0.001	0.0120	0.0065	0.0027	0.0118	0.0073	0.0016	0.0234	0.891
0.001	0.0137	0.0069	0.0033	0.0114	0.0071	0.0012	0.0230	0.927
0.002	0.0298	0.0069	0.0026	0.0101	0.0051	0.0012	0.0190	0.982
	0.0527	0.0104	0.0041	0.0159	0.0100		0.0300	1.043

0.001	0.0082	0.0014	0.0022	0.0078	0.0026	0.0002	0.0128	1.026
0.001	0.0166	0.0022	0.0032	0.0090	0.0032	0.0004	0.0158	1.041
	0.0174	0.0022	0.0040	0.0086	0.0028	0.0004	0.0158	0.976
	0.0087	0.0014	0.0006	0.0034	0.0010	0.0004	0.0054	0.791
	0.0144	0.0032	0.0028	0.0090	0.0036	0.0006	0.0160	0.978
	0.0116	0.0032	0.0022	0.0100	0.0040	0.0006	0.0168	0.919
0.000	0.0446	0.0046	0.0020	0.0116	0.0034	0.0006	0.0176	0.942
	0.0141	0.0056	0.0032	0.0123	0.0066	0.0010	0.0231	0.966
0.001	0.0106	0.0026	0.0024	0.0082	0.0020	0.0004	0.0130	0.913
0.000	0.0063	0.0004	0.0010	0.0030	0.0010		0.0050	1.033
	0.0032	0.0002	0.0006	0.0034	0.0004		0.0044	0.996
	0.0125	0.0014	0.0018	0.0071	0.0016	0.0008	0.0113	1.102
0.000	0.0098	0.0014	0.0028	0.0082	0.0024		0.0134	1.104
	0.0068	0.0006	0.0024	0.0072	0.0018	0.0004	0.0118	1.155
0.000	0.0301		0.0048	0.0110	0.0020		0.0178	1.250
0.001	0.0183	0.0002	0.0044	0.0096	0.0018	0.0006	0.0164	0.954
0.002	0.0071		0.0024	0.0062	0.0016	0.0006	0.0108	1.145
0.000	0.0072	0.0004	0.0026	0.0066	0.0010	0.0002	0.0104	1.180
0.001	0.0040	0.0008	0.0024	0.0085	0.0026	0.0002	0.0137	1.078
	0.0097	0.0006	0.0044	0.0097	0.0006	0.0004	0.0151	1.275
	0.0062	0.0012	0.0048	0.0128	0.0030	0.0012	0.0218	0.996
0.000	0.0096	0.0038	0.0034	0.0130	0.0056	0.0008	0.0228	1.233
0.000	0.0141	0.0004	0.0022	0.0083	0.0014	0.0004	0.0123	1.011
	0.0324	0.0010	0.0034	0.0116	0.0032	0.0010	0.0192	1.055
	0.0071	0.0004	0.0024	0.0071	0.0012	0.0004	0.0111	1.170
0.000	0.0088	0.0064	0.0024	0.0126	0.0078	0.0012	0.0240	0.900
	0.0895	0.0145	0.0008	0.0060	0.0052	0.0026	0.0146	1.156
	0.0326	0.0002	0.0016	0.0081	0.0042	0.0004	0.0143	1.815
	0.0202	0.0047	0.0020	0.0042	0.0045	0.0012	0.0119	1.091
	0.0045	0.0010	0.0010	0.0073	0.0016	0.0002	0.0101	1.073
	0.0049	0.0020	0.0024	0.0086	0.0029	0.0002	0.0141	1.181
	0.0055	0.0022	0.0035	0.0063	0.0026	0.0002	0.0126	1.130
	0.0490	0.0247	0.0024	0.0042	0.0053	0.0018	0.0137	1.302
	0.0128	0.0014	0.0043	0.0099	0.0022		0.0164	1.217
	0.0103	0.0073	0.0048	0.0125	0.0085	0.0024	0.0282	0.946
	0.0064	0.0062	0.0042	0.0099	0.0048	0.0020	0.0209	1.048
	0.0473	0.0235	0.0012	0.0047	0.0042	0.0008	0.0109	1.220
	0.0101	0.0012	0.0004	0.0085	0.0024	0.0008	0.0121	1.313
	0.0008	0.0024	0.0026	0.0079	0.0016	0.0012	0.0133	1.076
	0.0026	0.0165	0.0012	0.0092	0.0030		0.0134	1.147
	0.0075	0.0103	0.0024	0.0115	0.0056	0.0008	0.0203	0.839
	0.0100	0.0100	0.0035	0.0128	0.0075	0.0018	0.0256	0.918
	0.0064	0.0082	0.0022	0.0086	0.0032	0.0002	0.0142	0.912
	0.0058	0.0123		0.0090	0.0046	0.0014	0.0150	1.127
	0.0008	0.0032	0.0034	0.0087	0.0014	0.0010	0.0145	1.162
	0.0020	0.0075	0.0030	0.0051	0.0014	0.0002	0.0097	1.143

0.0010	0.0115	0.0032	0.0085	0.0026	0.0006	0.0149	1.164
0.0181	0.0369	0.0010	0.0054	0.0040	0.0006	0.0110	1.176
0.0219	0.0377	0.0012	0.0050	0.0046	0.0002	0.0110	1.310
0.0099	0.0134	0.0055	0.0166	0.0079	0.0018	0.0318	0.907
0.0004	0.0020	0.0038	0.0059		0.0002	0.0099	1.139
0.0086	0.0090	0.0040	0.0146	0.0054	0.0018	0.0258	1.045
0.0235	0.0644		0.0067	0.0053	0.0018	0.0138	1.151
0.0084	0.0242		0.0078	0.0052	0.0008	0.0138	1.394
	0.0028	0.0042	0.0081	0.0012		0.0135	1.261
0.0067	0.0484	0.0004	0.0081	0.0040	0.0008	0.0133	1.313
0.0314	0.0336	0.0014	0.0064	0.0062	0.0024	0.0164	1.340
0.0256	0.0655	0.0008	0.0075	0.0033	0.0020	0.0136	1.506
0.0253	0.0391	0.0014	0.0055	0.0032	0.0018	0.0119	1.323
0.0040	0.0134	0.0036	0.0100	0.0024	0.0008	0.0168	1.296
0.0465	0.0042	0.0042	0.0138	0.0050	0.0004	0.0234	1.613
0.0159	0.0016	0.0026	0.0064	0.0020	0.0004	0.0114	1.128
0.0331	0.0048	0.0020	0.0082	0.0048	0.0002	0.0152	1.618
0.0051		0.0034	0.0059	0.0006		0.0099	0.905
0.0145	0.0020	0.0018	0.0073	0.0020		0.0111	1.253
0.0133	0.0050	0.0022	0.0082	0.0038		0.0142	1.057
0.0057	0.0010	0.0012	0.0092	0.0008	0.0012	0.0124	1.260
0.0107	0.0042	0.0028	0.0087	0.0040	0.0006	0.0161	1.031
0.0048		0.0048	0.0067	0.0002	0.0008	0.0125	1.010
0.0067	0.0004	0.0047	0.0094	0.0020	0.0012	0.0173	1.190
0.0016	0.0010	0.0023	0.0059	0.0014		0.0096	1.189
0.0117	0.0008	0.0036	0.0095	0.0030	0.0004	0.0165	0.990
0.0151	0.0058	0.0012	0.0101	0.0054	0.0014	0.0181	1.061
0.0170	0.0016	0.0042	0.0101	0.0018		0.0161	1.046
0.0110	0.0072	0.0026	0.0132	0.0064	0.0020	0.0242	1.077
0.0193	0.0046	0.0038	0.0096	0.0032	0.0008	0.0174	1.235
0.0006	0.0008		0.0018		0.0002	0.0020	1.274
0.0097	0.0046	0.0022	0.0071	0.0032	0.0014	0.0139	1.122
0.0120	0.0068	0.0036	0.0118	0.0066	0.0020	0.0240	1.062
0.0165	0.0054	0.0038	0.0081	0.0036	0.0020	0.0175	1.157
0.0289	0.0050	0.0030	0.0128	0.0058	0.0012	0.0228	1.233
0.0194	0.0069	0.0063	0.0194	0.0087		0.0344	0.897
0.0118	0.0062	0.0006	0.0124	0.0066	0.0020	0.0216	1.094
0.0012	0.0006	0.0006	0.0044	0.0004		0.0054	1.037
0.0100	0.0076	0.0042	0.0121	0.0070	0.0018	0.0251	1.090
0.0004	0.0004	0.0024	0.0022	0.0012		0.0058	1.000
0.0012	0.0010	0.0032	0.0054	0.0016		0.0102	0.795
0.0084	0.0020	0.0026	0.0074	0.0028	0.0010	0.0138	0.993
0.0154	0.0046	0.0018	0.0104	0.0038	0.0010	0.0170	1.016
0.0180	0.0064	0.0046	0.0160	0.0056	0.0012	0.0274	1.198
0.0167	0.0044	0.0030	0.0107	0.0046	0.0012	0.0195	1.145

0.0065		0.0018	0.0075	0.0016		0.0109	1.198
0.0037		0.0055	0.0084		0.0006	0.0145	1.196
0.0412	0.0066	0.0046	0.0122	0.0062	0.0002	0.0232	1.246
0.0063	0.0004	0.0010	0.0035	0.0004		0.0049	1.088
0.0010		0.0021	0.0008			0.0029	1.573
0.0021	0.0008	0.0008	0.0037	0.0004		0.0049	1.180
0.0164	0.0061	0.0032	0.0130	0.0043		0.0205	1.143
0.0175	0.0058	0.0008	0.0177	0.0040	0.0038	0.0263	1.003
	0.0006			0.0006		0.0006	1.221
0.0031	0.0017		0.0021	0.0006	0.0019	0.0046	1.587
0.0145	0.0078	0.0035	0.0088	0.0031		0.0154	1.460
0.0333	0.0065	0.0031	0.0173	0.0067	0.0012	0.0283	1.552
0.0241	0.0049	0.0047	0.0119	0.0018	0.0025	0.0209	1.271
0.0559	0.0094	0.0048	0.0157	0.0064	0.0002	0.0271	1.110
0.0421	0.0065	0.0062	0.0192	0.0083	0.0018	0.0355	1.082
0.0163	0.0058	0.0020	0.0115	0.0040		0.0175	0.911
0.0049	0.0016	0.0024	0.0071	0.0027	0.0002	0.0124	1.046
0.0051	0.0018	0.0066	0.0064	0.0012		0.0142	1.187
0.0048	0.0002	0.0025	0.0037	0.0002	0.0002	0.0066	1.675
0.0330	0.0049	0.0002	0.0103	0.0063	0.0010	0.0178	0.776
0.0165	0.0065	0.0043	0.0104	0.0022	0.0012	0.0181	1.134
0.0155	0.0053	0.0077	0.0159	0.0067	0.0022	0.0325	0.994
0.0419	0.0006	0.0024	0.0028	0.0004		0.0056	0.926
0.0242	0.0067	0.0022	0.0168	0.0071	0.0022	0.0283	0.954
0.0056	0.0010	0.0021	0.0050	0.0031		0.0102	1.121
0.0010		0.0023		0.0002		0.0025	0.877
0.0074	0.0012	0.0072	0.0033	0.0012		0.0117	1.098
0.0069	0.0008	0.0010	0.0067	0.0008		0.0085	1.081
0.0021	0.0004	0.0021	0.0096	0.0002	0.0010	0.0129	1.181
0.0025	0.0004	0.0035	0.0057			0.0092	1.254
0.0008	0.0004	0.0045	0.0060	0.0004	0.0006	0.0115	1.053
0.0065	0.0008	0.0068	0.0131	0.0018	0.0002	0.0219	1.245
0.0015	0.0004	0.0063	0.0069		0.0004	0.0136	1.376
0.0033		0.0062	0.0056		0.0012	0.0130	1.201
0.0431	0.0060	0.0050	0.0153	0.0056	0.0018	0.0277	1.115
0.0004	0.0006	0.0004	0.0027	0.0008		0.0039	1.106
0.0016	0.0010	0.0016	0.0006			0.0022	1.246
0.0152	0.0058	0.0026	0.0112	0.0044	0.0006	0.0188	1.212
0.0002	0.0002	0.0004				0.0004	1.000
0.0153	0.0060	0.0016	0.0116	0.0056	0.0024	0.0212	0.968
			0.0016	0.0014	0.0019	0.0049	0.905
		0.0017	0.0006		0.0006	0.0029	0.959
0.0123	0.0040	0.0016	0.0045	0.0014		0.0075	1.235
0.0105	0.0058	0.0028	0.0115	0.0056	0.0020	0.0219	0.867
0.0138	0.0068	0.0028	0.0120	0.0060		0.0208	0.871
0.0151	0.0073	0.0036	0.0172	0.0085	0.0014	0.0307	0.933

	0.0018	0.0034	0.0008	0.0002	0.0062	1.599
0.0048	0.0028	0.0070	0.0040	0.0008	0.0146	0.980
0.0075	0.0024	0.0083	0.0079	0.0026	0.0212	0.884
0.0096	0.0004	0.0104	0.0084	0.0016	0.0208	0.847
0.0102	0.0018	0.0127	0.0096	0.0027	0.0268	0.837
0.0082	0.0026	0.0098	0.0090	0.0010	0.0224	0.932
0.0026	0.0002	0.0076	0.0028	0.0002	0.0108	0.983
0.0024	0.0018	0.0089	0.0032	0.0002	0.0141	0.964
0.0020	0.0010	0.0097	0.0032		0.0139	0.681
				0.0006	0.0006	2.087
0.0077	0.0022	0.0122	0.0081	0.0018	0.0243	0.941
0.0092	0.0025	0.0098	0.0086	0.0029	0.0238	0.903
0.0075	0.0006	0.0073		0.0018	0.0097	0.839
0.0076	0.0014	0.0082	0.0102	0.0020	0.0218	0.728
0.0070	0.0016	0.0085	0.0064	0.0016	0.0181	0.972
	0.0008	0.0018	0.0020	0.0004	0.0050	2.474
0.0037	0.0061	0.0166	0.0059	0.0010	0.0296	2.650
0.0024	0.0030	0.0102	0.0044	0.0008	0.0184	0.772
0.0037	0.0030	0.0122	0.0051		0.0203	2.832
0.0004	0.0028	0.0081	0.0020		0.0129	1.297
	0.0012	0.0069	0.0016		0.0097	1.000
0.0008	0.0044	0.0111	0.0026	0.0008	0.0189	1.034
0.0006	0.0036	0.0115	0.0032	0.0006	0.0189	0.807
0.0012	0.0054	0.0085	0.0028		0.0167	0.750
	0.0042	0.0103	0.0036	0.0012	0.0193	1.215
0.0016	0.0044	0.0107	0.0034		0.0185	0.762
0.0014	0.0016	0.0082	0.0026	0.0012	0.0136	0.731
0.0006	0.0014	0.0065	0.0020	0.0004	0.0103	0.703
0.0010	0.0020	0.0085	0.0032	0.0012	0.0149	0.742
0.0010	0.0024	0.0108	0.0030		0.0162	0.795
	0.0018	0.0035	0.0014	0.0012	0.0079	0.414
0.0014	0.0030	0.0071	0.0016	0.0010	0.0127	0.839
0.0008	0.0024	0.0085	0.0020		0.0129	0.737
0.0020	0.0020	0.0101	0.0026		0.0147	0.799
0.0010	0.0060	0.0091	0.0034		0.0185	1.082
0.0010	0.0048	0.0131	0.0028	0.0004	0.0211	0.918
0.0006	0.0032	0.0131	0.0034	0.0002	0.0199	0.909
0.0002	0.0034	0.0049	0.0034		0.0117	1.229
	0.0008	0.0055	0.0026	0.0002	0.0091	1.182
	0.0032	0.0081	0.0022		0.0135	1.073
0.0006	0.0054	0.0129	0.0026		0.0209	1.297
0.0016	0.0044	0.0093	0.0030	0.0006	0.0173	0.989
0.0008	0.0040	0.0121	0.0022	0.0014	0.0197	1.022
0.0006	0.0038	0.0093	0.0032	0.0006	0.0169	0.987
0.0006	0.0026	0.0111	0.0020	0.0002	0.0159	0.911
0.0038	0.0022	0.0076	0.0040	0.0006	0.0144	0.935
0.0063	0.0039	0.0122	0.0071	0.0016	0.0248	1.080

0.0130	0.0034	0.0038	0.0092	0.0058	0.0008	0.0196	1.014
		0.0020	0.0056	0.0024		0.0100	1.000
	0.0008	0.0028	0.0069	0.0020		0.0117	0.815
	0.0016	0.0006	0.0069	0.0022	0.0006	0.0103	0.759
	0.0036	0.0022	0.0133	0.0044	0.0014	0.0213	2.377
	0.0035	0.0043	0.0162	0.0087	0.0010	0.0302	2.727
	0.0012	0.0026	0.0068	0.0020	0.0016	0.0130	1.533
		0.0016	0.0055	0.0006		0.0077	1.128
	0.0010	0.0040	0.0103	0.0030	0.0004	0.0177	1.029
	0.0012	0.0022	0.0089	0.0042	0.0006	0.0159	0.742
	0.0016	0.0022	0.0082	0.0034		0.0138	0.700
	0.0020	0.0032	0.0113	0.0038		0.0183	0.759
	0.0016	0.0024	0.0093	0.0014	0.0010	0.0141	0.747
	0.0012	0.0020	0.0091	0.0022		0.0133	0.733
	0.0010	0.0026	0.0109	0.0039	0.0008	0.0182	0.861
	0.0008	0.0036	0.0113	0.0024	0.0010	0.0183	0.945
	0.0026	0.0020	0.0094	0.0042	0.0002	0.0158	1.085
	0.0020	0.0032	0.0091	0.0040	0.0002	0.0165	0.979
	0.0030	0.0042	0.0073	0.0040		0.0155	1.017
	0.0028	0.0020	0.0089	0.0030	0.0010	0.0149	1.069
	0.0020	0.0020	0.0075	0.0008		0.0103	1.064
	0.0010	0.0025	0.0090	0.0027	0.0006	0.0148	0.799
	0.0016	0.0014	0.0065	0.0022	0.0002	0.0103	0.689
	0.0022	0.0024	0.0107	0.0044		0.0175	0.803
	0.0028	0.0046	0.0123	0.0042	0.0004	0.0215	1.064
	0.0089	0.0012	0.0109	0.0069	0.0014	0.0204	0.873
	0.0064	0.0020	0.0078	0.0058	0.0020	0.0176	0.944
	0.0057	0.0016	0.0087	0.0046	0.0018	0.0167	0.997
	0.0004	0.0042	0.0113	0.0012	0.0006	0.0173	1.114
		0.0049	0.0099	0.0026	0.0010	0.0184	0.829
	0.0008	0.0048	0.0113	0.0034	0.0016	0.0211	1.154
	0.0012	0.0043	0.0122	0.0034		0.0199	0.941
	0.0006	0.0040	0.0117	0.0036	0.0008	0.0201	1.009
	0.0008	0.0034	0.0109	0.0036	0.0002	0.0181	0.653
	0.0010	0.0022	0.0114	0.0030	0.0014	0.0180	0.736
	0.0048	0.0034	0.0095	0.0052	0.0002	0.0183	0.978
	0.0008	0.0025	0.0072	0.0033		0.0130	0.769
	0.0014	0.0027	0.0056	0.0027		0.0110	0.885
	0.0010	0.0022	0.0071	0.0029	0.0004	0.0126	0.697
	0.0018	0.0018	0.0064	0.0029	0.0010	0.0121	0.731
	0.0012	0.0019	0.0058	0.0029	0.0002	0.0108	1.015
	0.0018	0.0021	0.0086	0.0043		0.0150	0.763
	0.0018	0.0045	0.0102	0.0037		0.0184	0.665
	0.0004	0.0010	0.0040	0.0008	0.0012	0.0070	1.719
	0.0014	0.0016	0.0068	0.0044	0.0004	0.0132	0.693
	0.0024	0.0026	0.0082	0.0034	0.0018	0.0160	1.603
	0.0012	0.0006	0.0036	0.0036		0.0078	1.502
	0.0002	0.0024	0.0061	0.0014		0.0099	1.061

0.0189	0.0008	0.0038	0.0105	0.0028		0.0171	1.096
	0.0008	0.0050	0.0131	0.0046		0.0227	0.946
	0.0018	0.0038	0.0105	0.0046	0.0010	0.0199	0.780
	0.0008	0.0030	0.0112	0.0039		0.0181	0.755
	0.0010	0.0032	0.0119	0.0036	0.0010	0.0197	0.749
	0.0024	0.0040	0.0101	0.0038		0.0179	0.759
	0.0012	0.0016	0.0087	0.0039		0.0142	0.829
	0.0020	0.0022	0.0107	0.0036	0.0020	0.0185	0.756
	0.0018	0.0012	0.0083	0.0034		0.0129	0.857
		0.0016	0.0031	0.0008	0.0002	0.0057	1.715
			0.0022	0.0018	0.0006	0.0046	1.675
	0.0046	0.0020	0.0070	0.0038	0.0018	0.0146	2.045
	0.0038	0.0014	0.0052	0.0022	0.0002	0.0090	2.782
	0.0032	0.0028	0.0158	0.0081	0.0014	0.0281	3.041
		0.0010	0.0018	0.0028		0.0056	1.891
		0.0022	0.0047	0.0012		0.0081	1.270
		0.0038	0.0095	0.0022		0.0155	0.788
	0.0012	0.0032	0.0111	0.0040		0.0183	0.763
	0.0014	0.0016	0.0099	0.0030	0.0012	0.0157	0.719
			0.0010			0.0010	1.952
	0.0034	0.0054	0.0157	0.0076	0.0010	0.0297	2.660
	0.0038	0.0020	0.0094	0.0038	0.0004	0.0156	2.433
	0.0014	0.0022	0.0077	0.0022	0.0010	0.0131	0.710
	0.0018	0.0016	0.0094	0.0024	0.0006	0.0140	0.705
	0.0016	0.0034	0.0081	0.0028	0.0004	0.0147	0.700
	0.0022	0.0046	0.0111	0.0036	0.0006	0.0199	0.741
	0.0020	0.0006	0.0061	0.0036	0.0002	0.0105	0.791
	0.0002	0.0008	0.0020	0.0008	0.0006	0.0042	0.779
	0.0008	0.0020	0.0083	0.0028		0.0131	0.728
	0.0037	0.0039	0.0123	0.0060	0.0012	0.0234	2.268
	0.0024	0.0036	0.0096	0.0026		0.0158	2.288
	0.0018	0.0008	0.0089	0.0028	0.0010	0.0135	0.824
	0.0002	0.0024	0.0057	0.0031	0.0002	0.0114	0.762
	0.0012	0.0032	0.0136	0.0042	0.0002	0.0212	0.736
	0.0010	0.0020	0.0081	0.0024		0.0125	0.779
	0.0010	0.0012	0.0091	0.0012	0.0006	0.0121	0.744
	0.0020	0.0026	0.0091	0.0018		0.0135	0.725
	0.0012	0.0002	0.0075	0.0024	0.0002	0.0103	0.730
	0.0034	0.0018	0.0076	0.0036	0.0006	0.0136	2.528
	0.0014	0.0044	0.0102	0.0016	0.0008	0.0170	3.990
		0.0006	0.0037	0.0020	0.0002	0.0065	2.450
		0.0010	0.0039			0.0049	0.770
			0.0008			0.0008	0.385
	0.0038	0.0034	0.0112	0.0004	0.0012	0.0162	2.526
	0.0016	0.0010	0.0077	0.0032	0.0004	0.0123	0.990
	0.0032	0.0008	0.0055	0.0032	0.0010	0.0105	1.122
	0.0055	0.0004	0.0085	0.0061	0.0014	0.0164	0.862
	0.0079	0.0022	0.0123	0.0069	0.0008	0.0222	0.968

0.0014	0.0048	0.0134	0.0028		0.0210	1.021
0.0010	0.0022	0.0065	0.0028		0.0115	0.861
0.0022	0.0026	0.0093	0.0042		0.0161	0.848
0.0018	0.0020	0.0089	0.0042	0.0006	0.0157	0.754
0.0026	0.0046	0.0081	0.0034	0.0006	0.0167	0.815
0.0024	0.0026	0.0101	0.0050	0.0004	0.0181	2.773
0.0076	0.0012	0.0076	0.0084	0.0032	0.0204	0.649
0.0062	0.0032	0.0092	0.0062		0.0186	0.958
	0.0022	0.0075	0.0037	0.0002	0.0136	3.413
0.0012	0.0042	0.0099	0.0046	0.0006	0.0193	4.091
	0.0012	0.0070	0.0018		0.0100	3.114
	0.0018	0.0058	0.0014	0.0004	0.0094	3.427
0.0002	0.0016	0.0078	0.0030		0.0124	0.706
0.0004	0.0018	0.0084	0.0026	0.0002	0.0130	1.029
0.0014	0.0014	0.0092	0.0010	0.0004	0.0120	1.058
0.0028	0.0024	0.0121	0.0038	0.0004	0.0187	0.788
0.0084	0.0031	0.0122	0.0098	0.0020	0.0271	0.913
0.0048	0.0016	0.0111	0.0044	0.0004	0.0175	1.011
0.0075	0.0014	0.0077	0.0095	0.0024	0.0210	0.804
0.0048	0.0010	0.0091	0.0075	0.0022	0.0198	0.606
0.0016	0.0002	0.0050	0.0012		0.0064	0.573
0.0004	0.0006	0.0030	0.0016	0.0002	0.0054	0.607
0.0051	0.0037	0.0116	0.0035		0.0188	1.181
	0.0012	0.0049	0.0014	0.0012	0.0087	1.333
	0.0002	0.0028	0.0006		0.0036	1.589
		0.0004	0.0022		0.0026	1.579
0.0070	0.0022	0.0088	0.0076	0.0016	0.0202	0.774
0.0008	0.0012	0.0069	0.0014	0.0012	0.0107	0.512
0.0002	0.0006	0.0052			0.0058	0.558
0.0061	0.0022	0.0102	0.0067	0.0002	0.0193	1.119
0.0010	0.0028	0.0126	0.0026	0.0002	0.0182	0.758
0.0050	0.0022	0.0088	0.0034	0.0012	0.0156	0.987
	0.0002	0.0032	0.0008	0.0004	0.0046	1.942
	0.0006	0.0020	0.0012	0.0002	0.0040	1.583
0.0055	0.0014	0.0132	0.0041	0.0006	0.0193	1.089
0.0053	0.0004	0.0073	0.0040	0.0016	0.0133	1.109
0.0058	0.0034	0.0084	0.0032	0.0016	0.0166	0.969
0.0073	0.0024	0.0091	0.0053	0.0014	0.0182	0.965
0.0075	0.0045	0.0113	0.0083	0.0018	0.0259	1.004
0.0054	0.0022	0.0107	0.0060	0.0012	0.0201	1.027
0.0012	0.0056	0.0110	0.0032	0.0002	0.0200	0.865
0.0041	0.0022	0.0132	0.0041	0.0016	0.0211	2.796
	0.0024	0.0018	0.0010	0.0002	0.0054	1.261
0.0024	0.0020	0.0078	0.0024	0.0008	0.0130	1.043
0.0016	0.0014	0.0067	0.0026	0.0008	0.0115	0.693
0.0014	0.0028	0.0090	0.0042		0.0160	0.862
	0.0008	0.0050	0.0008	0.0002	0.0068	1.252
0.0084		0.0016	0.0002	0.0010	0.0028	1.417

		0.0062		0.0006	0.0008	0.0006	0.0020	1.368
		0.0048	0.0010		0.0020	0.0008	0.0038	1.549
		0.0026	0.0002	0.0006	0.0020	0.0002	0.0030	1.669
		0.0022	0.0002	0.0022	0.0024	0.0008	0.0056	1.669
		0.0002	0.0024	0.0055	0.0014		0.0093	0.668
			0.0024	0.0028		0.0010	0.0062	0.565
			0.0024	0.0014	0.0008		0.0046	0.575
			0.0002	0.0025	0.0002		0.0029	0.661
			0.0014	0.0055	0.0012	0.0010	0.0091	0.706
	0.0316	0.0020	0.0026	0.0053			0.0079	0.982
	0.0300	0.0012	0.0018	0.0051	0.0008		0.0077	0.997
	0.0097	0.0012	0.0016	0.0006	0.0012	0.0004	0.0038	0.805
	0.0425	0.0018	0.0010	0.0024	0.0012	0.0002	0.0048	0.852
	0.0084	0.0006	0.0010	0.0010	0.0004	0.0004	0.0028	0.858
	0.0166	0.0023	0.0016	0.0049	0.0018	0.0010	0.0093	0.876

0.000	0.0040	0.0048	0.0018	0.0046	0.0040	0.0016	0.0120	0.732
0.001	0.0067	0.0057	0.0006	0.0055	0.0055	0.0016	0.0132	0.741
0.001	0.0077	0.0069	0.0012	0.0055	0.0061	0.0020	0.0148	0.798
0.001	0.0106	0.0079	0.0010	0.0065	0.0069	0.0018	0.0162	0.802
0.002	0.0156	0.0099	0.0012	0.0105	0.0088	0.0023	0.0228	0.852
0.001	0.0159	0.0092	0.0010	0.0102	0.0080	0.0029	0.0221	1.009
0.000	0.0111	0.0075	0.0014	0.0097	0.0079	0.0016	0.0206	0.731
0.001	0.0111	0.0071	0.0010	0.0093	0.0091	0.0024	0.0218	0.761
0.000	0.0144	0.0073	0.0012	0.0083	0.0081	0.0028	0.0204	0.714
0.001	0.0120	0.0081	0.0016	0.0081	0.0077	0.0028	0.0202	0.712
0.001	0.0157	0.0096	0.0012	0.0089	0.0085	0.0030	0.0216	0.799
0.001	0.0175	0.0085	0.0016	0.0083	0.0079	0.0022	0.0200	0.818
0.000	0.0157	0.0106	0.0014	0.0102	0.0088	0.0024	0.0228	0.815
0.002	0.0185	0.0100	0.0020	0.0094	0.0086	0.0026	0.0226	0.757
0.000	0.0106	0.0100	0.0022	0.0091	0.0077	0.0022	0.0212	0.823
0.001	0.0085	0.0089	0.0008	0.0071	0.0081	0.0028	0.0188	0.835
0.000	0.0081	0.0081	0.0008	0.0059	0.0055	0.0026	0.0148	0.795
0.000	0.0069	0.0079	0.0012	0.0065	0.0058	0.0010	0.0145	0.778
0.000	0.0052	0.0062	0.0016	0.0056	0.0044	0.0014	0.0130	0.723
0.000	0.0054	0.0041	0.0004	0.0033	0.0031	0.0014	0.0082	0.475
0.001	0.0141	0.0055	0.0012	0.0048	0.0057	0.0016	0.0133	0.781
0.001	0.0074	0.0048	0.0010	0.0052	0.0040	0.0004	0.0106	0.776
0.003	0.0054	0.0064	0.0008	0.0058	0.0040	0.0014	0.0120	0.726
0.002	0.0098	0.0066		0.0062	0.0056	0.0020	0.0138	0.814
0.001	0.0092	0.0074		0.0074	0.0062	0.0018	0.0154	0.786
0.001	0.0193	0.0093	0.0016	0.0089	0.0075	0.0022	0.0202	0.805
0.009	0.0172	0.0091	0.0018	0.0085	0.0081		0.0184	0.781
0.013	0.0199	0.0091	0.0052	0.0089	0.0079	0.0022	0.0242	0.768
0.000	0.0073	0.0038	0.0002	0.0028	0.0038	0.0004	0.0072	0.866
0.001	0.0044	0.0056	0.0032	0.0048	0.0042	0.0008	0.0130	0.764

0.000	0.0054	0.0100	0.0010	0.0046	0.0062	0.0030	0.0148	0.764
0.000	0.0078	0.0076	0.0014	0.0070	0.0054	0.0016	0.0154	0.817
0.000	0.0072	0.0072	0.0014	0.0056	0.0052	0.0012	0.0134	0.737
0.000	0.0056	0.0078	0.0014	0.0064	0.0058	0.0016	0.0152	0.575
0.000	0.0113	0.0097	0.0014	0.0081	0.0077	0.0022	0.0194	0.851
0.000	0.0104	0.0082	0.0024	0.0164	0.0074	0.0018	0.0280	0.844
0.000	0.0090	0.0090	0.0018	0.0055	0.0072	0.0425	0.0570	0.715
0.001	0.0114	0.0088	0.0028	0.0086	0.0092	0.0032	0.0238	0.915
0.000	0.0137	0.0087	0.0040	0.0040	0.0080	0.0018	0.0178	0.962
0.000	0.0054	0.0070	0.0020	0.0060	0.0056	0.0014	0.0150	0.792
0.000	0.0070	0.0064		0.0076	0.0118	0.0212	0.0406	0.705
0.001	0.0068	0.0062	0.0004	0.0040	0.0042	0.0054	0.0140	0.742
0.000	0.0072	0.0048	0.0006	0.0060	0.0046	0.0008	0.0120	0.748
0.000	0.0084	0.0054	0.0010	0.0048	0.0040	0.0010	0.0108	0.724
0.001	0.0058	0.0036	0.0008	0.0028	0.0028	0.0006	0.0070	0.607
0.002	0.0125	0.0091	0.0018	0.0073	0.0095	0.0012	0.0198	0.707
0.000	0.0087	0.0107	0.0010	0.0081	0.0077	0.0020	0.0188	0.852
0.000	0.0041	0.0010		0.0016	0.0012		0.0028	0.572
0.000	0.0027	0.0006		0.0008	0.0002		0.0010	0.530
0.000	0.0004	0.0004	0.0014	0.0020	0.0008	0.0004	0.0046	0.643
0.000	0.0055	0.0051	0.0051	0.0194	0.0135	0.0022	0.0402	0.931
0.002	0.0032	0.0024	0.0024	0.0107	0.0056	0.0014	0.0201	0.750
0.001	0.0050	0.0024	0.0022	0.0106	0.0066	0.0012	0.0206	0.787
0.001	0.0042	0.0014	0.0012	0.0060	0.0018	0.0004	0.0094	0.823
0.001	0.0035	0.0031	0.0049	0.0154	0.0071	0.0014	0.0288	1.340
0.001	0.0022	0.0033	0.0055	0.0175	0.0083	0.0016	0.0329	1.495
0.000	0.0037	0.0035	0.0049	0.0163	0.0063	0.0014	0.0289	0.996
0.000	0.0034	0.0008	0.0024	0.0066	0.0026	0.0006	0.0122	0.777
0.000	0.0047	0.0028	0.0043	0.0158	0.0075	0.0012	0.0288	0.831
0.000	0.0053	0.0041	0.0039	0.0181	0.0112	0.0024	0.0356	0.836
0.000	0.0067	0.0028	0.0032	0.0119	0.0065	0.0014	0.0230	0.810
0.000	0.0060	0.0020	0.0026	0.0097	0.0052	0.0004	0.0179	0.711
0.000	0.0055	0.0031	0.0035	0.0149	0.0088	0.0014	0.0286	0.869
0.000	0.0028	0.0026	0.0014	0.0083	0.0046	0.0016	0.0159	0.699
0.000	0.0047	0.0018	0.0051	0.0164	0.0063	0.0014	0.0292	0.923
0.000	0.0014	0.0010	0.0046	0.0147	0.0036	0.0008	0.0237	0.863
0.000	0.0042	0.0014	0.0052	0.0135	0.0044	0.0006	0.0237	0.841
0.000	0.0024	0.0006	0.0036	0.0114	0.0028	0.0004	0.0182	0.777
0.002	0.0032	0.0020	0.0049	0.0156	0.0061	0.0006	0.0272	0.785
0.000	0.0034	0.0016	0.0038	0.0110	0.0036		0.0184	0.862
0.000	0.0040	0.0020	0.0040	0.0139	0.0036	0.0006	0.0221	0.816
0.000	0.0028	0.0008	0.0026	0.0094	0.0022		0.0142	0.847
0.000	0.0033	0.0026	0.0053	0.0169	0.0085	0.0018	0.0325	0.880
0.000	0.0018	0.0008	0.0032	0.0092	0.0014	0.0008	0.0146	0.865
0.000	0.0022	0.0008	0.0040	0.0098	0.0030	0.0008	0.0176	0.907
0.000	0.0036	0.0018	0.0020	0.0098	0.0044	0.0010	0.0172	0.636
0.000	0.0047	0.0043	0.0047	0.0184	0.0105	0.0018	0.0354	0.829
0.000	0.0012	0.0014	0.0026	0.0096	0.0026	0.0004	0.0152	0.854

0.001	0.0039	0.0047	0.0047	0.0175	0.0104	0.0022	0.0348	0.736
0.000	0.0048	0.0026	0.0026	0.0084	0.0060	0.0004	0.0174	0.685
0.000	0.0059	0.0040	0.0044	0.0121	0.0075	0.0022	0.0262	0.827
0.000	0.0073	0.0014	0.0014	0.0073	0.0030	0.0012	0.0129	0.959
0.000	0.0035	0.0045	0.0035	0.0124	0.0069	0.0012	0.0240	0.792
0.000	0.0048	0.0024	0.0006	0.0058	0.0034	0.0010	0.0108	0.675
0.000	0.0033	0.0041	0.0051	0.0163	0.0077	0.0016	0.0307	0.844
0.001	0.0045	0.0043	0.0041	0.0156	0.0073	0.0012	0.0282	0.864
0.000	0.0051	0.0041	0.0033	0.0157	0.0071	0.0012	0.0273	0.856
0.001	0.0036	0.0032	0.0051	0.0150	0.0065	0.0012	0.0278	0.873
0.000	0.0028	0.0024	0.0038	0.0141	0.0071	0.0016	0.0266	0.865
0.000	0.0046	0.0022	0.0014	0.0058	0.0028	0.0010	0.0110	0.604
0.001	0.0024	0.0037	0.0043	0.0144	0.0075	0.0014	0.0276	0.748
0.000	0.0055	0.0031	0.0033	0.0122	0.0078	0.0014	0.0247	0.825
0.001	0.0039	0.0037	0.0047	0.0162	0.0091	0.0018	0.0318	0.832
0.000	0.0044	0.0028	0.0032	0.0139	0.0071	0.0016	0.0258	0.798
0.000	0.0036	0.0016	0.0022	0.0060	0.0024		0.0106	0.755
0.001	0.0075	0.0014	0.0016	0.0071	0.0020		0.0107	1.047
0.000	0.0032	0.0014	0.0024	0.0070	0.0014		0.0108	0.873
0.000		0.0028	0.0012	0.0054	0.0032	0.0002	0.0100	0.731
0.001	0.0029	0.0031	0.0035	0.0131	0.0078	0.0012	0.0256	0.870
0.000	0.0045	0.0041	0.0031	0.0112	0.0057	0.0006	0.0206	0.761
0.002	0.0053	0.0041	0.0035	0.0142	0.0094	0.0018	0.0289	0.801
0.000	0.0051	0.0024	0.0018	0.0061	0.0034	0.0012	0.0125	0.650
0.000	0.0049	0.0025	0.0041	0.0162	0.0109	0.0020	0.0332	0.866
0.000	0.0026	0.0037	0.0043	0.0152	0.0067	0.0004	0.0266	0.850
0.000	0.0028	0.0041	0.0047	0.0147	0.0071	0.0012	0.0277	0.774
0.001	0.0031	0.0043	0.0037	0.0128	0.0061	0.0016	0.0242	0.830
0.000	0.0033	0.0052	0.0047	0.0175	0.0130	0.0025	0.0377	0.884
0.000	0.0040	0.0036	0.0022	0.0079	0.0042	0.0008	0.0151	0.702
0.000	0.0037	0.0045	0.0041	0.0162	0.0078	0.0020	0.0301	0.862
0.001	0.0034	0.0053	0.0014	0.0081	0.0065	0.0014	0.0174	0.733
0.000	0.0037	0.0051	0.0045	0.0172	0.0117	0.0016	0.0350	0.911
0.000	0.0035	0.0031	0.0029	0.0108	0.0055	0.0010	0.0202	0.832
0.000	0.0039	0.0012	0.0033	0.0122	0.0050	0.0014	0.0219	0.831
0.000	0.0034	0.0030	0.0036	0.0143	0.0063	0.0010	0.0252	0.974
0.001	0.0065	0.0035	0.0057	0.0196	0.0080	0.0008	0.0341	1.018
0.001	0.0026	0.0020	0.0044	0.0135	0.0048	0.0006	0.0233	0.928
0.001	0.0024	0.0026	0.0026	0.0120	0.0039	0.0006	0.0191	0.922
0.001	0.0036	0.0036	0.0026	0.0141	0.0065	0.0010	0.0242	0.890
0.000	0.0053	0.0053	0.0031	0.0141	0.0100	0.0022	0.0294	0.850
0.000	0.0035	0.0045	0.0043	0.0145	0.0079	0.0018	0.0285	0.801
0.000	0.0073	0.0010	0.0026	0.0073	0.0024	0.0002	0.0125	0.828
0.000	0.0030	0.0022	0.0022	0.0083	0.0034	0.0004	0.0143	0.787
0.000	0.0036	0.0026	0.0032	0.0144	0.0079	0.0014	0.0269	0.806
0.000	0.0033	0.0027	0.0035	0.0139	0.0084	0.0027	0.0285	0.868
0.000	0.0032	0.0024	0.0020	0.0095	0.0055	0.0006	0.0176	0.670
0.001	0.0032	0.0018	0.0020	0.0064	0.0030		0.0114	0.742

0.000	0.0044	0.0020	0.0014	0.0069	0.0038	0.0006	0.0127	0.910
0.000	0.0030	0.0020	0.0022	0.0088	0.0044	0.0008	0.0162	0.733
0.000	0.0053	0.0049	0.0045	0.0170	0.0104	0.0020	0.0339	0.877
0.001	0.0010	0.0024	0.0051	0.0126	0.0053	0.0004	0.0234	1.093
0.001	0.0044	0.0016	0.0010	0.0042	0.0022	0.0006	0.0080	0.637
0.000	0.0035	0.0029	0.0045	0.0146	0.0082	0.0012	0.0285	0.849
0.001	0.0064	0.0029	0.0039	0.0124	0.0078	0.0014	0.0255	0.872
0.000	0.0043	0.0033	0.0033	0.0132	0.0075	0.0018	0.0258	0.795
0.000	0.0047	0.0031	0.0045	0.0147	0.0075	0.0008	0.0275	0.815
0.000	0.0055	0.0028	0.0016	0.0083	0.0055	0.0016	0.0170	0.741
0.000	0.0059	0.0053	0.0027	0.0174	0.0094	0.0020	0.0315	0.853
0.000	0.0045	0.0037	0.0037	0.0142	0.0079	0.0012	0.0270	0.864
0.000	0.0091	0.0051	0.0064	0.0228	0.0113	0.0016	0.0421	0.933
0.000	0.0045	0.0030	0.0028	0.0095	0.0055	0.0010	0.0188	0.865
0.000	0.0044	0.0022	0.0032	0.0097	0.0053	0.0016	0.0198	0.889
0.000	0.0034	0.0024	0.0028	0.0103	0.0051	0.0018	0.0200	0.915
0.001	0.0047	0.0033	0.0057	0.0187	0.0077	0.0016	0.0337	0.933
0.000	0.0022	0.0020	0.0030	0.0107	0.0047	0.0006	0.0190	1.038
0.001	0.0014	0.0018	0.0039	0.0120	0.0045	0.0010	0.0214	1.050
0.000	0.0035	0.0016	0.0028	0.0126	0.0049	0.0004	0.0207	0.873
0.000	0.0035	0.0018	0.0031	0.0098	0.0053	0.0006	0.0188	0.889
0.000	0.0049	0.0029	0.0055	0.0180	0.0082	0.0018	0.0335	0.827
0.000	0.0026	0.0039	0.0036	0.0140	0.0071	0.0020	0.0267	0.936
0.000	0.0063	0.0043	0.0049	0.0168	0.0092	0.0018	0.0327	0.993
0.000	0.0053	0.0051	0.0033	0.0150	0.0097	0.0018	0.0298	0.948
0.001	0.0047	0.0049	0.0040	0.0142	0.0087	0.0018	0.0287	0.911
0.000	0.0032	0.0026	0.0030	0.0114	0.0063	0.0014	0.0221	0.797
0.000	0.0026	0.0033	0.0026	0.0095	0.0055	0.0010	0.0186	0.761
0.000	0.0044	0.0008	0.0014	0.0070	0.0028	0.0004	0.0116	0.835
0.001	0.0045	0.0022	0.0033	0.0147	0.0081	0.0012	0.0273	0.893
0.000	0.0034	0.0039	0.0037	0.0168	0.0101	0.0014	0.0320	0.971
0.000	0.0047	0.0058	0.0041	0.0200	0.0136	0.0033	0.0410	1.000
0.000	0.0041	0.0057	0.0049	0.0229	0.0172	0.0033	0.0483	0.956
0.000	0.0039	0.0053	0.0049	0.0205	0.0147	0.0031	0.0432	0.952
0.000	0.0043	0.0060	0.0043	0.0201	0.0150	0.0029	0.0423	0.971
0.002	0.0049	0.0053	0.0047	0.0201	0.0137	0.0023	0.0408	0.963
0.001	0.0033	0.0043	0.0043	0.0191	0.0121	0.0029	0.0384	0.926
0.000	0.0043	0.0043	0.0051	0.0177	0.0104	0.0012	0.0344	0.943
0.001	0.0041	0.0043	0.0047	0.0159	0.0100	0.0020	0.0326	0.970
0.001	0.0031	0.0033	0.0047	0.0153	0.0087	0.0018	0.0305	0.872
0.000	0.0034	0.0037	0.0041	0.0152	0.0077	0.0010	0.0280	0.839
0.001	0.0042	0.0020	0.0022	0.0072	0.0018	0.0006	0.0118	0.815
0.000		0.0008	0.0012	0.0048	0.0014		0.0074	0.788
0.000	0.0024	0.0004	0.0010	0.0034	0.0010	0.0002	0.0056	0.708
0.001	0.0010		0.0014	0.0016	0.0002	0.0002	0.0034	0.650
0.000	0.0006			0.0016			0.0016	0.565
0.000	0.0050	0.0020	0.0016	0.0056	0.0026		0.0098	0.875
0.000	0.0056	0.0016	0.0004	0.0050	0.0030	0.0004	0.0088	0.695

0.000	0.0052	0.0018	0.0014	0.0052	0.0034	0.0002	0.0102	0.714
0.000	0.0068	0.0016	0.0010	0.0060	0.0032	0.0004	0.0106	0.735
0.001	0.0062	0.0018	0.0024	0.0060	0.0030	0.0010	0.0124	0.718
0.001	0.0054	0.0022	0.0016	0.0080	0.0044	0.0004	0.0144	0.736
0.001	0.0036	0.0022	0.0030	0.0115	0.0050	0.0012	0.0207	0.881
0.000	0.0042	0.0020	0.0042	0.0113	0.0046	0.0006	0.0207	0.925
0.000	0.0055	0.0022	0.0012	0.0061	0.0024	0.0012	0.0109	0.793
0.000	0.0008	0.0008	0.0020	0.0058	0.0018	0.0002	0.0098	0.783
0.000	0.0024	0.0008	0.0014	0.0066	0.0026	0.0006	0.0112	0.737
0.000	0.0042	0.0016	0.0006	0.0064	0.0032	0.0010	0.0112	0.370
0.001	0.0050	0.0012	0.0052	0.0151	0.0038	0.0006	0.0247	0.898
0.000	0.0034	0.0006	0.0012	0.0054	0.0022		0.0088	1.000
0.000	0.0014		0.0030	0.0084	0.0014	0.0002	0.0130	0.820
0.001	0.0018		0.0020	0.0044	0.0010		0.0074	0.767
0.001	0.0020	0.0010	0.0024	0.0073	0.0016	0.0004	0.0117	0.818
0.000	0.0076	0.0028	0.0026	0.0099	0.0052	0.0032	0.0209	0.752
0.002	0.0100	0.0024	0.0030	0.0072	0.0046	0.0002	0.0150	0.805
0.000	0.0042	0.0020	0.0014	0.0048	0.0032	0.0002	0.0096	0.794
0.001	0.0041	0.0012	0.0012	0.0053	0.0029	0.0008	0.0102	0.635
0.001	0.0045	0.0027	0.0016	0.0057	0.0031	0.0004	0.0108	0.634
0.000	0.0033	0.0023	0.0023	0.0137	0.0068	0.0020	0.0248	0.788
0.000	0.0041	0.0016	0.0037	0.0148	0.0080	0.0016	0.0281	0.822
0.000	0.0039	0.0033	0.0033	0.0114	0.0047	0.0010	0.0204	0.773
0.001	0.0043	0.0045	0.0035	0.0170	0.0086	0.0018	0.0309	0.761
0.000	0.0037	0.0046	0.0054	0.0172	0.0127	0.0029	0.0382	0.807
0.000	0.0035	0.0029	0.0037	0.0133	0.0061	0.0006	0.0237	0.838
0.001	0.0039	0.0037	0.0035	0.0132	0.0087	0.0014	0.0268	0.871
0.000	0.0070	0.0037	0.0055	0.0197	0.0092	0.0014	0.0358	0.907
0.000	0.0059	0.0041	0.0045	0.0180	0.0090	0.0012	0.0327	0.890
0.000	0.0053	0.0031	0.0045	0.0168	0.0086	0.0012	0.0311	0.885
0.000	0.0026	0.0020	0.0026	0.0089	0.0051	0.0008	0.0174	0.679
0.001	0.0053	0.0033	0.0041	0.0145	0.0086	0.0014	0.0286	0.977
0.000	0.0047	0.0033	0.0031	0.0156	0.0076	0.0006	0.0269	0.952
0.001	0.0049	0.0033	0.0033	0.0144	0.0076	0.0014	0.0267	0.925
0.000	0.0071	0.0031	0.0043	0.0141	0.0071	0.0014	0.0269	1.026
0.000	0.0068	0.0029	0.0037	0.0147	0.0070	0.0014	0.0268	1.004
0.000	0.0045	0.0037	0.0027	0.0149	0.0078	0.0018	0.0272	0.968
0.000	0.0050	0.0054	0.0047	0.0190	0.0126	0.0021	0.0384	1.044
0.000	0.0030	0.0030	0.0028	0.0113	0.0071	0.0012	0.0224	1.026
0.000	0.0033	0.0043	0.0039	0.0169	0.0096	0.0020	0.0324	0.993
0.000	0.0045	0.0041	0.0033	0.0168	0.0090	0.0016	0.0307	1.036
0.000	0.0033	0.0031	0.0028	0.0134	0.0067	0.0012	0.0241	0.963
0.000	0.0058	0.0034	0.0020	0.0064	0.0038	0.0006	0.0128	0.798
0.000	0.0142	0.0012	0.0036	0.0091	0.0024	0.0008	0.0159	0.993
0.000	0.0057	0.0018	0.0022	0.0071	0.0039	0.0012	0.0144	0.747
0.000	0.0051	0.0037	0.0014	0.0059	0.0037	0.0008	0.0118	0.622
0.000	0.0067	0.0030	0.0034	0.0146	0.0077	0.0018	0.0275	0.902
0.001	0.0072	0.0028	0.0012	0.0056	0.0050	0.0010	0.0128	0.476

0.001	0.0051	0.0035	0.0016	0.0104	0.0067	0.0012	0.0199	0.607
0.001	0.0069	0.0026	0.0006	0.0026	0.0036	0.0006	0.0074	0.255
0.000	0.0056	0.0022	0.0030	0.0121	0.0056	0.0014	0.0221	0.765
0.000	0.0065	0.0024	0.0018	0.0063	0.0044	0.0012	0.0137	0.655
0.000	0.0051	0.0043	0.0041	0.0159	0.0104	0.0018	0.0322	0.941
0.001	0.0053	0.0039	0.0037	0.0149	0.0098	0.0024	0.0308	0.921
0.000	0.0046	0.0032	0.0026	0.0096	0.0076	0.0010	0.0208	0.566
0.000	0.0065	0.0033	0.0041	0.0173	0.0083	0.0014	0.0311	0.876
0.000	0.0059	0.0037	0.0043	0.0183	0.0109	0.0016	0.0351	0.965
0.000	0.0077	0.0035	0.0043	0.0177	0.0093	0.0012	0.0325	0.936
0.000	0.0083	0.0043	0.0049	0.0179	0.0096	0.0018	0.0342	0.893
0.001	0.0061	0.0031	0.0043	0.0161	0.0096	0.0020	0.0320	0.857
0.000	0.0097	0.0035	0.0032	0.0148	0.0083	0.0022	0.0285	0.784
0.001	0.0060	0.0024	0.0014	0.0070	0.0048	0.0012	0.0144	0.690
0.000	0.0042	0.0020	0.0008	0.0042	0.0024	0.0006	0.0080	0.635
0.000	0.0059	0.0024	0.0014	0.0067	0.0032	0.0002	0.0115	0.734
0.001	0.0058	0.0016	0.0014	0.0064	0.0012	0.0002	0.0092	0.864
0.000	0.0057	0.0026	0.0026	0.0081	0.0046	0.0006	0.0159	0.874
0.000	0.0099	0.0026	0.0022	0.0091	0.0022	0.0008	0.0143	0.888
0.000	0.0052	0.0018	0.0030	0.0125	0.0050	0.0004	0.0209	0.881
0.000	0.0057	0.0022	0.0037	0.0110	0.0026	0.0002	0.0175	0.988
0.001	0.0042	0.0024	0.0038	0.0117	0.0060	0.0010	0.0225	1.072
0.000	0.0045	0.0020	0.0043	0.0126	0.0055	0.0006	0.0230	0.652
0.000	0.0040	0.0028	0.0046	0.0151	0.0075	0.0004	0.0276	0.937
0.000	0.0070	0.0037	0.0074	0.0255	0.0111	0.0016	0.0456	0.810
0.000	0.0043	0.0018	0.0030	0.0109	0.0051	0.0004	0.0194	0.914
0.001	0.0051	0.0032	0.0028	0.0113	0.0071	0.0006	0.0218	0.841
0.000	0.0028	0.0024	0.0024	0.0103	0.0054	0.0010	0.0191	0.741
0.001	0.0045	0.0039	0.0037	0.0167	0.0087	0.0018	0.0309	0.848
0.001	0.0052	0.0028	0.0028	0.0078	0.0038	0.0008	0.0152	0.656
0.000	0.0039	0.0039	0.0043	0.0151	0.0081	0.0008	0.0283	0.823
0.001	0.0035	0.0049	0.0049	0.0177	0.0108	0.0018	0.0352	0.892
0.001	0.0041	0.0043	0.0043	0.0148	0.0077	0.0008	0.0276	0.785
0.000	0.0114	0.0056	0.0060	0.0215	0.0126	0.0025	0.0426	0.887
0.000	0.0030	0.0028	0.0030	0.0131	0.0059	0.0008	0.0228	0.794
0.001	0.0034	0.0030	0.0042	0.0147	0.0055	0.0012	0.0256	0.827
0.002	0.0047	0.0041	0.0038	0.0140	0.0069	0.0010	0.0257	0.903
0.001	0.0068	0.0053	0.0080	0.0247	0.0113	0.0018	0.0458	1.059
0.002	0.0045	0.0035	0.0041	0.0167	0.0094	0.0018	0.0320	1.034
0.001	0.0039	0.0022	0.0031	0.0128	0.0049	0.0008	0.0216	0.505
0.001	0.0049	0.0041	0.0051	0.0174	0.0100	0.0004	0.0329	0.933
0.000	0.0032	0.0026	0.0043	0.0148	0.0065	0.0012	0.0268	0.831
0.001	0.0049	0.0049	0.0043	0.0176	0.0090	0.0012	0.0321	0.882
0.000	0.0037	0.0039	0.0047	0.0176	0.0096	0.0012	0.0331	0.899
0.001	0.0047	0.0032	0.0041	0.0154	0.0075	0.0010	0.0280	0.858
0.001	0.0043	0.0045	0.0051	0.0153	0.0094	0.0016	0.0314	0.859
0.000	0.0051	0.0035	0.0039	0.0171	0.0075	0.0014	0.0299	0.836

0.000	0.0044	0.0024	0.0012	0.0070	0.0038	0.0008	0.0128	0.699
0.000	0.0041	0.0039	0.0045	0.0149	0.0088	0.0012	0.0294	0.841
0.002	0.0051	0.0028	0.0016	0.0081	0.0051	0.0006	0.0154	0.747
0.002	0.0073	0.0018	0.0045	0.0113	0.0022	0.0012	0.0192	0.996
0.001	0.0176	0.0016	0.0066	0.0147	0.0025	0.0006	0.0244	1.344
0.000	0.0206	0.0027	0.0057	0.0147	0.0035		0.0239	1.124
0.000	0.0051	0.0030	0.0036	0.0127	0.0053	0.0014	0.0230	0.817
0.000	0.0134	0.0052	0.0054	0.0233	0.0113	0.0027	0.0427	1.037
0.000	0.0074	0.0041	0.0043	0.0178	0.0078	0.0014	0.0313	0.895
0.000	0.0105	0.0050	0.0068	0.0250	0.0109	0.0021	0.0448	1.024
0.000	0.0060	0.0034	0.0032	0.0101	0.0054	0.0008	0.0195	0.819
0.001	0.0067	0.0026	0.0030	0.0111	0.0042	0.0010	0.0193	0.948
0.000	0.0041	0.0026	0.0028	0.0126	0.0053	0.0008	0.0215	0.906
0.000	0.0049	0.0032	0.0024	0.0107	0.0061	0.0016	0.0208	0.792
0.000	0.0051	0.0038	0.0018	0.0087	0.0055	0.0012	0.0172	0.726
0.000	0.0049	0.0037	0.0039	0.0159	0.0069	0.0012	0.0279	0.815
0.000	0.0070	0.0043	0.0039	0.0149	0.0088	0.0006	0.0282	0.853
0.000	0.0049	0.0047	0.0041	0.0151	0.0088	0.0018	0.0298	0.898
0.000	0.0059	0.0049	0.0047	0.0169	0.0092	0.0018	0.0326	0.902
0.000	0.0130	0.0056	0.0076	0.0248	0.0114	0.0021	0.0459	0.895
0.001	0.0031	0.0043	0.0041	0.0161	0.0082	0.0014	0.0298	0.848
0.000	0.0046	0.0032	0.0040	0.0113	0.0055	0.0008	0.0216	0.919
0.000	0.0053	0.0035	0.0045	0.0132	0.0065	0.0010	0.0252	1.017
0.001	0.0049	0.0032	0.0028	0.0115	0.0061	0.0014	0.0218	1.073
0.000	0.0067	0.0041	0.0043	0.0162	0.0083	0.0016	0.0304	1.011
0.000	0.0056	0.0024	0.0014	0.0089	0.0042	0.0008	0.0153	0.900
0.000	0.0047	0.0039	0.0047	0.0153	0.0073	0.0014	0.0287	0.914
0.001	0.0055	0.0041	0.0045	0.0151	0.0077	0.0022	0.0295	0.857
0.001	0.0088	0.0035	0.0065	0.0181	0.0077	0.0020	0.0343	0.662
0.000	0.0046	0.0024	0.0034	0.0117	0.0059	0.0008	0.0218	0.816
0.000	0.0056	0.0034	0.0012	0.0076	0.0044	0.0008	0.0140	0.691
0.000	0.0054	0.0012	0.0030	0.0091	0.0044	0.0006	0.0171	0.869
0.001	0.0065	0.0018	0.0024	0.0095	0.0036	0.0004	0.0159	0.967
0.000	0.0143	0.0016	0.0034	0.0097	0.0026	0.0008	0.0165	1.021
0.001	0.0300	0.0012	0.0067	0.0154	0.0018	0.0004	0.0243	1.348
0.000	0.0035	0.0029	0.0033	0.0126	0.0051	0.0016	0.0226	0.823
0.000	0.0039	0.0053	0.0045	0.0188	0.0116	0.0020	0.0369	0.864
0.000	0.0047	0.0032	0.0034	0.0123	0.0059	0.0012	0.0228	0.882
0.000	0.0090	0.0035	0.0035	0.0145	0.0071	0.0012	0.0263	1.201
0.001		0.0004	0.0010	0.0022	0.0008		0.0040	0.773
0.001	0.0016	0.0002	0.0004	0.0010	0.0008	0.0004	0.0026	0.865
0.000	0.0002	0.0002		0.0012	0.0004		0.0016	0.735
0.000	0.0053	0.0047	0.0064	0.0234	0.0138	0.0031	0.0467	1.082
0.002	0.0083	0.0046	0.0060	0.0259	0.0147	0.0031	0.0497	1.047
0.000	0.0064	0.0045	0.0066	0.0210	0.0113	0.0023	0.0412	1.054
0.000	0.0043	0.0033	0.0053	0.0204	0.0100	0.0029	0.0386	0.995
0.000	0.0039	0.0045	0.0041	0.0182	0.0111	0.0020	0.0354	0.844
0.000	0.0050	0.0054	0.0037	0.0180	0.0112	0.0027	0.0356	0.856
0.000	0.0041	0.0039	0.0041	0.0145	0.0078	0.0020	0.0284	0.885
0.000	0.0045	0.0037	0.0037	0.0155	0.0086	0.0014	0.0292	0.908
0.000	0.0024	0.0031	0.0041	0.0137	0.0053	0.0010	0.0241	1.190

0.001	0.0041	0.0033	0.0051	0.0148	0.0095	0.0022	0.0316	1.007
0.001	0.0035	0.0037	0.0055	0.0171	0.0087	0.0012	0.0325	1.135
0.000	0.0035	0.0041	0.0047	0.0187	0.0102	0.0020	0.0356	1.103
0.000	0.0025	0.0047	0.0049	0.0195	0.0123	0.0029	0.0396	0.996
0.001	0.0059	0.0039	0.0063	0.0215	0.0096	0.0016	0.0390	0.836
0.000	0.0041	0.0045	0.0039	0.0165	0.0092	0.0014	0.0310	0.835
0.001	0.0056	0.0051	0.0058	0.0216	0.0132	0.0031	0.0437	0.889
0.001	0.0035	0.0043	0.0051	0.0168	0.0110	0.0029	0.0358	0.909
0.000	0.0049	0.0034	0.0045	0.0156	0.0075	0.0012	0.0288	0.928
0.000	0.0044	0.0030	0.0034	0.0148	0.0083	0.0014	0.0279	0.961
0.002	0.0037	0.0033	0.0043	0.0185	0.0100	0.0012	0.0340	1.106
0.000	0.0034	0.0028	0.0049	0.0158	0.0075	0.0018	0.0300	1.043
0.000	0.0030	0.0014	0.0040	0.0135	0.0050	0.0016	0.0241	1.097
0.000	0.0039	0.0028	0.0053	0.0166	0.0083	0.0012	0.0314	1.067
0.000	0.0016	0.0026	0.0041	0.0130	0.0077	0.0014	0.0262	2.354
0.000	0.0049	0.0033	0.0043	0.0161	0.0075	0.0008	0.0287	1.051
0.000	0.0034	0.0043	0.0038	0.0168	0.0089	0.0016	0.0311	0.972
0.001	0.0028	0.0037	0.0033	0.0144	0.0075	0.0018	0.0270	0.985
0.001	0.0033	0.0037	0.0037	0.0155	0.0075	0.0016	0.0283	0.898
0.000	0.0038	0.0024	0.0026	0.0113	0.0051	0.0006	0.0196	0.809
0.000	0.0018	0.0002	0.0022	0.0052	0.0008	0.0002	0.0084	1.026
0.000	0.0006	0.0002	0.0004	0.0016	0.0010		0.0030	0.874
0.002	0.0012		0.0006	0.0014		0.0002	0.0022	0.663
0.000			0.0004	0.0030	0.0006	0.0002	0.0042	0.928
0.000	0.0020	0.0012	0.0008	0.0042	0.0012	0.0008	0.0070	0.875
0.000	0.0020		0.0016	0.0050	0.0010	0.0006	0.0082	0.884
0.001	0.0030	0.0004	0.0038	0.0078	0.0020	0.0004	0.0140	0.934
0.000	0.0057	0.0024	0.0026	0.0122	0.0049	0.0004	0.0201	1.041
0.000	0.0073	0.0018	0.0033	0.0100	0.0039		0.0172	0.981
0.001	0.0150	0.0029	0.0053	0.0177	0.0055	0.0016	0.0301	1.303
0.001	0.0353	0.0014	0.0061	0.0169	0.0055		0.0285	1.355
0.001	0.0103	0.0022	0.0055	0.0121	0.0026	0.0004	0.0206	1.311
0.001	0.0069	0.0022	0.0034	0.0122	0.0047	0.0004	0.0207	0.960
0.000	0.0031	0.0018	0.0029	0.0107	0.0020	0.0004	0.0160	0.839
0.001	0.0042	0.0004	0.0040	0.0094	0.0022		0.0156	0.967
0.000	0.0026	0.0006	0.0010	0.0026	0.0004		0.0040	0.221
0.000	0.0040	0.0026	0.0032	0.0139	0.0063	0.0016	0.0250	0.820
0.000	0.0047	0.0032	0.0038	0.0148	0.0071	0.0010	0.0267	0.881
0.001	0.0028	0.0016	0.0030	0.0087	0.0032	0.0006	0.0155	0.835
0.000	0.0065	0.0018	0.0035	0.0126	0.0049	0.0016	0.0226	1.070
0.001	0.0018	0.0004	0.0020	0.0046	0.0008		0.0074	0.836
0.000	0.0024	0.0022	0.0032	0.0115	0.0038	0.0008	0.0193	1.073
0.001	0.0036	0.0018	0.0040	0.0123	0.0045	0.0010	0.0218	0.874
0.001	0.0042	0.0016	0.0020	0.0072	0.0026	0.0002	0.0120	0.769
0.001	0.0028	0.0016	0.0030	0.0086	0.0042	0.0012	0.0170	0.948
0.000	0.0060	0.0014	0.0022	0.0086	0.0034	0.0008	0.0150	0.836
0.001	0.0047	0.0026	0.0057	0.0154	0.0059	0.0008	0.0278	0.967
0.000	0.0045	0.0025	0.0041	0.0159	0.0065	0.0014	0.0279	0.809

0.001	0.0069	0.0026	0.0049	0.0161	0.0067	0.0012	0.0289	1.000
0.000	0.0024	0.0024	0.0038	0.0121	0.0057	0.0002	0.0218	0.986
0.000	0.0042	0.0016	0.0036	0.0129	0.0046	0.0010	0.0221	0.945
0.000	0.0030	0.0006	0.0018	0.0048	0.0008	0.0010	0.0084	1.036
0.000	0.0065	0.0018	0.0049	0.0130	0.0045	0.0012	0.0236	1.056
0.000	0.0069	0.0033	0.0063	0.0204	0.0073	0.0014	0.0354	1.039
0.000	0.0041	0.0035	0.0051	0.0181	0.0065		0.0297	0.985
0.000	0.0037	0.0031	0.0041	0.0153	0.0075	0.0018	0.0287	1.023
0.000	0.0020	0.0033	0.0043	0.0136	0.0059	0.0016	0.0254	1.068
0.000	0.0045	0.0028	0.0032	0.0114	0.0047	0.0010	0.0203	1.235
0.001	0.0114	0.0049	0.0047	0.0188	0.0098	0.0016	0.0349	1.196
0.000	0.0063	0.0024	0.0034	0.0119	0.0044	0.0010	0.0207	1.167
0.000	0.0028	0.0002	0.0032	0.0087	0.0032		0.0151	1.060
0.000	0.0057	0.0022	0.0024	0.0077	0.0042	0.0008	0.0151	0.821
0.001	0.0049	0.0028	0.0020	0.0087	0.0057	0.0012	0.0176	0.755
0.000	0.0032	0.0012	0.0039	0.0099	0.0024	0.0002	0.0164	1.038
0.000	0.0032	0.0026	0.0004	0.0069	0.0042	0.0008	0.0123	0.720
0.001	0.0053	0.0018	0.0018	0.0108	0.0045	0.0012	0.0183	1.004
0.001	0.0053	0.0030	0.0012	0.0085	0.0047	0.0014	0.0158	0.730
0.000	0.0049	0.0022	0.0014	0.0059	0.0030	0.0006	0.0109	0.809
0.000	0.0052	0.0024	0.0016	0.0060	0.0028	0.0002	0.0106	0.767
0.000	0.0029	0.0033	0.0047	0.0153	0.0080	0.0018	0.0298	0.909
0.000	0.0042	0.0058	0.0050	0.0199	0.0139	0.0027	0.0415	0.989
0.000	0.0049	0.0034	0.0014	0.0071	0.0038	0.0008	0.0131	0.719
0.000	0.0055	0.0049	0.0039	0.0185	0.0113	0.0018	0.0355	0.965
0.000	0.0039	0.0033	0.0031	0.0142	0.0069	0.0016	0.0258	0.950
0.000	0.0045	0.0035	0.0031	0.0125	0.0072	0.0006	0.0234	0.957
0.000	0.0031	0.0035	0.0039	0.0168	0.0076	0.0010	0.0293	0.750
0.001	0.0047	0.0041	0.0041	0.0153	0.0073	0.0020	0.0287	0.924
0.000	0.0051	0.0033	0.0053	0.0166	0.0082	0.0018	0.0319	0.951
0.001	0.0037	0.0027	0.0045	0.0179	0.0064	0.0012	0.0300	0.964
0.000	0.0052	0.0029	0.0041	0.0143	0.0058	0.0004	0.0246	0.961
0.000	0.0025	0.0012	0.0051	0.0153	0.0055	0.0010	0.0269	1.019
0.001	0.0031	0.0016	0.0041	0.0163	0.0053	0.0008	0.0265	0.990
0.000	0.0021	0.0012	0.0043	0.0109	0.0035	0.0004	0.0191	1.011
0.000	0.0020	0.0008	0.0022	0.0073	0.0022		0.0117	0.772
0.001	0.0034	0.0006	0.0016	0.0056	0.0014	0.0002	0.0088	0.754
0.000	0.0022		0.0016	0.0032	0.0006	0.0004	0.0058	0.660
0.000	0.0042	0.0016	0.0024	0.0081	0.0034	0.0008	0.0147	0.797
0.000	0.0041	0.0022	0.0018	0.0085	0.0051	0.0004	0.0158	0.804
0.001	0.0055	0.0030	0.0049	0.0144	0.0063	0.0006	0.0262	1.019
0.000	0.0034	0.0008	0.0004	0.0026	0.0010	0.0002	0.0042	0.864
0.000	0.0114	0.0016	0.0014	0.0070	0.0020	0.0008	0.0112	1.010
0.002	0.0078	0.0012	0.0022	0.0066	0.0032	0.0008	0.0128	1.049
0.000	0.0099	0.0012	0.0008	0.0032	0.0018		0.0058	0.932
0.001	0.0120	0.0020	0.0012	0.0078	0.0026	0.0002	0.0118	0.990

0.001	0.0074	0.0012	0.0010	0.0066	0.0026	0.0004	0.0106	1.289
0.001	0.0155	0.0056	0.0026	0.0090	0.0034	0.0002	0.0152	1.165
0.000	0.0130	0.0054	0.0012	0.0086	0.0044	0.0002	0.0144	1.036
0.000	0.0068	0.0046	0.0024	0.0118	0.0058	0.0014	0.0214	0.984
0.000	0.0058	0.0052	0.0034	0.0125	0.0078	0.0018	0.0255	0.908
0.000	0.0056	0.0046	0.0016	0.0104	0.0076	0.0010	0.0206	0.946
0.001	0.0046	0.0050	0.0020	0.0119	0.0079	0.0016	0.0234	0.935
0.001	0.0054	0.0048	0.0028	0.0114	0.0058	0.0012	0.0212	0.921
0.000	0.0072	0.0052		0.0105	0.0066	0.0010	0.0181	0.888
0.001	0.0099	0.0050	0.0022	0.0111	0.0064	0.0010	0.0207	0.670
0.001	0.0090	0.0046	0.0018	0.0094	0.0058	0.0012	0.0182	0.778
0.000	0.0076	0.0036	0.0022	0.0104	0.0052	0.0010	0.0188	0.820
0.001	0.0076	0.0044	0.0022	0.0084	0.0042	0.0014	0.0162	0.815
0.000	0.0054	0.0030	0.0016	0.0072	0.0034	0.0006	0.0128	0.936
0.000	0.0062	0.0036	0.0028	0.0124	0.0064	0.0008	0.0224	0.902
0.001	0.0113	0.0065	0.0036	0.0148	0.0099	0.0022	0.0305	0.925
0.000	0.0103	0.0063	0.0040	0.0139	0.0095	0.0016	0.0290	0.859
0.000	0.0123	0.0059	0.0022	0.0119	0.0069	0.0018	0.0228	0.902
0.000	0.0112	0.0060	0.0026	0.0120	0.0082	0.0018	0.0246	0.912
0.002	0.0096	0.0056	0.0020	0.0086	0.0054	0.0014	0.0174	0.809
0.000	0.0098	0.0052	0.0014	0.0082	0.0046	0.0010	0.0152	0.972
0.000	0.0126	0.0060	0.0014	0.0080	0.0042	0.0012	0.0148	1.061
0.000	0.0160	0.0058	0.0022	0.0084	0.0036	0.0008	0.0150	1.129
0.001	0.0344	0.0079	0.0031	0.0130	0.0065	0.0010	0.0236	1.282
0.000	0.0106	0.0034	0.0010	0.0070	0.0030	0.0012	0.0122	1.187
0.001	0.0367	0.0080	0.0025	0.0125	0.0062	0.0014	0.0226	1.246
0.000	0.0194	0.0067	0.0026	0.0105	0.0053	0.0012	0.0196	1.105
0.001	0.0193	0.0051	0.0024	0.0083	0.0028	0.0006	0.0141	1.203
0.001	0.0121	0.0026	0.0020	0.0097	0.0059	0.0012	0.0188	1.073
0.001	0.0182	0.0039	0.0016	0.0081	0.0047	0.0008	0.0152	1.028
0.000	0.0123	0.0028	0.0014	0.0071	0.0024		0.0109	1.032
0.000	0.0113	0.0018	0.0022	0.0065	0.0034	0.0006	0.0127	1.022
0.001	0.0121	0.0020	0.0020	0.0065	0.0032		0.0117	0.952
0.001	0.0432	0.0041	0.0032	0.0122	0.0030	0.0012	0.0196	1.097
0.000	0.0084	0.0020	0.0006	0.0056	0.0030	0.0006	0.0098	0.951
0.000	0.0014	0.0002	0.0004	0.0006	0.0008		0.0018	0.757
0.000	0.0076		0.0006	0.0020	0.0008		0.0034	0.649
0.000	0.0117	0.0065	0.0024	0.0099	0.0057	0.0014	0.0194	0.875
0.001	0.0066	0.0016	0.0004	0.0052	0.0030	0.0008	0.0094	1.034
0.000	0.0302	0.0042	0.0020	0.0090	0.0060	0.0004	0.0174	1.182
0.000	0.0192	0.0049	0.0026	0.0083	0.0028	0.0006	0.0143	1.181
0.001	0.0069	0.0055	0.0014	0.0091	0.0055	0.0008	0.0168	0.862
0.000	0.0089	0.0053	0.0035	0.0099	0.0075	0.0016	0.0225	0.821
0.000	0.0083	0.0057	0.0020	0.0095	0.0067	0.0008	0.0190	0.892
0.000	0.0081	0.0055	0.0024	0.0094	0.0071	0.0012	0.0201	0.929
0.001	0.0115	0.0067	0.0016	0.0109	0.0065	0.0022	0.0212	0.946
0.002	0.0089	0.0057	0.0020	0.0083	0.0063	0.0020	0.0186	0.945
0.001	0.0089	0.0055	0.0020	0.0098	0.0071	0.0018	0.0207	0.934

0.001	0.0104	0.0061	0.0020	0.0104	0.0075	0.0016	0.0215	0.954
0.002	0.0092	0.0061	0.0035	0.0124	0.0084	0.0022	0.0265	0.984
0.000	0.0112	0.0059	0.0026	0.0118	0.0071	0.0016	0.0231	0.951
0.001	0.0077	0.0059	0.0031	0.0118	0.0083	0.0018	0.0250	0.920
0.000	0.0078	0.0063	0.0033	0.0127	0.0092	0.0012	0.0264	0.959
0.001	0.0110	0.0069	0.0043	0.0151	0.0092	0.0020	0.0306	1.004
0.000	0.0065	0.0063	0.0020	0.0122	0.0075	0.0012	0.0229	1.000
0.001	0.0063	0.0065	0.0028	0.0118	0.0059	0.0014	0.0219	0.954
0.001	0.0077	0.0065	0.0018	0.0108	0.0069	0.0016	0.0211	0.928
0.000	0.0067	0.0061	0.0016	0.0103	0.0069	0.0012	0.0200	0.905
0.000	0.0079	0.0059	0.0018	0.0094	0.0077	0.0010	0.0199	0.847
0.000	0.0075	0.0051	0.0018	0.0083	0.0048	0.0016	0.0165	0.818
0.001	0.0081	0.0061	0.0020	0.0087	0.0047	0.0008	0.0162	0.959
0.000	0.0122	0.0065	0.0026	0.0112	0.0034	0.0016	0.0188	1.091
0.001	0.0097	0.0059	0.0016	0.0091	0.0050	0.0016	0.0173	0.961
0.000	0.0099	0.0057	0.0020	0.0095	0.0046	0.0012	0.0173	0.972
0.000	0.0064	0.0052	0.0014	0.0083	0.0048	0.0016	0.0161	0.842
0.001	0.0101	0.0050	0.0016	0.0066	0.0054	0.0012	0.0148	0.851
0.001	0.0092	0.0056	0.0022	0.0074	0.0052	0.0012	0.0160	0.817
0.000	0.0106	0.0060	0.0018	0.0080	0.0064	0.0010	0.0172	0.785
0.000	0.0089	0.0053	0.0014	0.0095	0.0061	0.0016	0.0186	0.903
0.001	0.0076	0.0056	0.0016	0.0080	0.0058	0.0010	0.0164	0.850
0.001	0.0125	0.0058	0.0022	0.0107	0.0068	0.0010	0.0207	0.868
0.001	0.0172	0.0065	0.0020	0.0107	0.0077	0.0012	0.0216	0.853
0.000	0.0097	0.0053	0.0010	0.0089	0.0057	0.0008	0.0164	0.890
0.000	0.0095	0.0052	0.0024	0.0083	0.0060	0.0016	0.0183	0.906
0.001	0.0082	0.0052	0.0026	0.0105	0.0062	0.0010	0.0203	0.927
0.000	0.0077	0.0051	0.0022	0.0095	0.0071	0.0018	0.0206	0.886
0.000	0.0088	0.0058	0.0014	0.0088	0.0066	0.0016	0.0184	0.841
0.000	0.0097	0.0056	0.0012	0.0093	0.0054	0.0008	0.0167	0.933
0.001	0.0072	0.0046	0.0026	0.0092	0.0052	0.0008	0.0178	0.872
0.000	0.0080	0.0050	0.0018	0.0074	0.0054	0.0014	0.0160	0.803
0.001	0.0082	0.0058	0.0018	0.0088	0.0062	0.0012	0.0180	0.858
0.000	0.0076	0.0054	0.0020	0.0101	0.0056	0.0016	0.0193	0.888
0.000	0.0065	0.0061	0.0016	0.0103	0.0054	0.0014	0.0187	0.948
0.000	0.0093	0.0061	0.0020	0.0087	0.0065	0.0014	0.0186	0.914
0.000	0.0087	0.0057	0.0014	0.0081	0.0063	0.0020	0.0178	0.900
0.002	0.0236	0.0075	0.0026	0.0112	0.0055	0.0006	0.0199	0.812
0.002	0.0081	0.0057	0.0010	0.0089	0.0063	0.0014	0.0176	0.791
0.000	0.0075	0.0075	0.0029	0.0118	0.0073	0.0018	0.0238	1.004
0.000	0.0221	0.0091	0.0050	0.0203	0.0128	0.0029	0.0410	0.985
0.000	0.0063	0.0055	0.0022	0.0099	0.0081	0.0018	0.0220	0.961
0.000	0.0180	0.0083	0.0031	0.0167	0.0111	0.0027	0.0336	0.864
0.001	0.0083	0.0051	0.0028	0.0100	0.0057	0.0012	0.0197	0.832
0.000	0.0087	0.0058	0.0018	0.0091	0.0054	0.0014	0.0177	0.951
0.001	0.0099	0.0062	0.0020	0.0117	0.0083	0.0014	0.0234	0.885
0.001	0.0081	0.0057	0.0026	0.0121	0.0073	0.0016	0.0236	0.890
0.000	0.0148	0.0063	0.0022	0.0130	0.0085	0.0016	0.0253	0.901

0.002	0.0103	0.0063	0.0026	0.0117	0.0083	0.0014	0.0240	0.875
0.002	0.0116	0.0069	0.0022	0.0092	0.0067	0.0024	0.0205	0.946
0.000	0.0095	0.0073	0.0022	0.0091	0.0079	0.0022	0.0214	0.863
0.000	0.0171	0.0063	0.0032	0.0142	0.0077	0.0016	0.0267	0.706
0.000	0.0079	0.0061	0.0018	0.0110	0.0063	0.0014	0.0205	0.827
0.000	0.0026	0.0010		0.0020	0.0010	0.0004	0.0034	0.746
0.001	0.0066	0.0023	0.0008	0.0052	0.0017	0.0008	0.0085	0.912
0.001	0.0163	0.0075	0.0041	0.0134	0.0094	0.0022	0.0291	1.019
0.000	0.0136	0.0024	0.0012	0.0101	0.0051	0.0010	0.0174	1.051
0.000	0.0179	0.0042	0.0022	0.0092	0.0052	0.0014	0.0180	1.038
0.000	0.0158	0.0063	0.0028	0.0095	0.0034	0.0012	0.0169	1.243
0.000	0.0134	0.0061	0.0026	0.0089	0.0035	0.0012	0.0162	1.107
0.000	0.0118	0.0069	0.0018	0.0087	0.0045	0.0008	0.0158	1.075
0.000	0.0079	0.0063	0.0018	0.0085	0.0063	0.0014	0.0180	0.880
0.000	0.0063	0.0065	0.0039	0.0122	0.0079	0.0016	0.0256	0.934
0.000	0.0093	0.0049	0.0024	0.0097	0.0059	0.0014	0.0194	0.885
0.000	0.0083	0.0069	0.0022	0.0101	0.0083	0.0018	0.0224	0.814
0.001	0.0087	0.0061	0.0018	0.0093	0.0053	0.0018	0.0182	0.921
0.001	0.0177	0.0063	0.0033	0.0118	0.0067	0.0022	0.0240	0.711
0.001	0.0089	0.0063	0.0014	0.0093	0.0071	0.0010	0.0188	0.849
0.000	0.0115	0.0071	0.0018	0.0083	0.0071	0.0012	0.0184	0.847
0.002	0.0101	0.0064	0.0016	0.0082	0.0064	0.0010	0.0172	0.842
0.000	0.0101	0.0067	0.0030	0.0095	0.0059	0.0020	0.0204	0.856
0.000	0.0103	0.0067	0.0026	0.0083	0.0065	0.0016	0.0190	0.859
0.000	0.0087	0.0061	0.0018	0.0095	0.0065	0.0014	0.0192	0.895
0.001	0.0093	0.0061	0.0028	0.0087	0.0053	0.0024	0.0192	0.885
0.000	0.0093	0.0066	0.0016	0.0080	0.0076	0.0016	0.0188	0.766
0.000	0.0079	0.0059	0.0020	0.0097	0.0069	0.0020	0.0206	0.861
0.001	0.0063	0.0061	0.0022	0.0093	0.0051	0.0014	0.0180	0.885
0.001	0.0107	0.0063	0.0016	0.0097	0.0046	0.0008	0.0167	1.164
0.000	0.0137	0.0056	0.0030	0.0097	0.0030	0.0012	0.0169	1.249
0.000	0.0199	0.0035	0.0018	0.0095	0.0041	0.0008	0.0162	1.252
0.000	0.0136	0.0020	0.0018	0.0083	0.0049	0.0008	0.0158	1.161
0.000	0.0101	0.0028	0.0010	0.0079	0.0038	0.0008	0.0135	1.077
0.000	0.0080	0.0030	0.0012	0.0048	0.0018	0.0006	0.0084	0.730
0.001	0.0063	0.0054	0.0032	0.0125	0.0087	0.0012	0.0256	0.922
0.000	0.0080	0.0042	0.0022	0.0074	0.0046	0.0004	0.0146	0.824
0.001	0.0093	0.0037	0.0010	0.0043	0.0027	0.0002	0.0082	0.891
0.000	0.0114	0.0032	0.0010	0.0044	0.0022	0.0002	0.0078	0.879
0.000	0.0076	0.0018	0.0006	0.0034	0.0012	0.0006	0.0058	0.804
0.001	0.0052	0.0012	0.0010	0.0028	0.0004	0.0004	0.0046	0.737
0.000	0.0040	0.0002	0.0008	0.0026	0.0006	0.0002	0.0042	0.675
0.001	0.0110	0.0032	0.0006	0.0050	0.0032	0.0004	0.0092	0.795
0.000	0.0069	0.0038	0.0012	0.0062	0.0040	0.0002	0.0116	0.795
0.001	0.0059	0.0053	0.0014	0.0075	0.0057	0.0012	0.0158	0.789
0.000	0.0063	0.0045	0.0027	0.0102	0.0059	0.0016	0.0204	0.862
0.001	0.0075	0.0059	0.0024	0.0099	0.0067	0.0016	0.0206	0.923
0.000	0.0073	0.0055	0.0020	0.0087	0.0067	0.0008	0.0182	0.865

0.001	0.0087	0.0069	0.0034	0.0142	0.0095	0.0020	0.0291	1.081
0.000	0.0064	0.0060		0.0119	0.0076	0.0012	0.0207	1.044
0.001	0.0085	0.0073	0.0032	0.0129	0.0091	0.0030	0.0282	1.032
0.000	0.0093	0.0063	0.0020	0.0089	0.0065	0.0012	0.0186	0.938
0.000	0.0178	0.0065	0.0010	0.0087	0.0065	0.0020	0.0182	1.038
0.000	0.0133	0.0067	0.0022	0.0089	0.0075	0.0012	0.0198	1.030
0.000	0.0153	0.0063	0.0026	0.0101	0.0075	0.0016	0.0218	0.754
0.001	0.0178	0.0057	0.0032	0.0135	0.0095	0.0014	0.0276	0.845
0.000	0.0142	0.0063	0.0028	0.0124	0.0083	0.0012	0.0247	0.867
0.003	0.0111	0.0073	0.0032	0.0119	0.0071	0.0018	0.0240	0.984
0.000	0.0113	0.0065	0.0018	0.0089	0.0069	0.0018	0.0194	0.985
0.000	0.0097	0.0073	0.0016	0.0091	0.0063	0.0012	0.0182	0.913
0.000	0.0107	0.0073	0.0030	0.0093	0.0069	0.0016	0.0208	1.007
0.001	0.0101	0.0071	0.0018	0.0113	0.0068	0.0016	0.0215	0.975
0.000	0.0065	0.0067	0.0024	0.0144	0.0105	0.0016	0.0289	0.996
0.001	0.0065	0.0071	0.0026	0.0128	0.0079	0.0016	0.0249	1.083
0.001	0.0065	0.0071	0.0024	0.0105	0.0065	0.0014	0.0208	0.993
0.001	0.0067	0.0059	0.0026	0.0109	0.0069	0.0022	0.0226	0.926
0.002	0.0092	0.0065	0.0022	0.0102	0.0079	0.0020	0.0223	0.883
0.000	0.0092	0.0036	0.0016	0.0066	0.0022	0.0002	0.0106	0.792
0.001	0.0100	0.0048	0.0008	0.0066	0.0044	0.0010	0.0128	0.752
0.000	0.0102	0.0059	0.0024	0.0089	0.0063	0.0012	0.0188	0.802
0.000	0.0047	0.0065	0.0037	0.0155	0.0104	0.0018	0.0314	0.883
0.000	0.0047	0.0067	0.0030	0.0144	0.0099	0.0020	0.0293	0.859
0.000	0.0109	0.0057	0.0024	0.0093	0.0065	0.0010	0.0192	0.744
0.001	0.0151	0.0057	0.0020	0.0102	0.0083	0.0010	0.0215	0.881
0.001	0.0242	0.0075	0.0028	0.0130	0.0079	0.0020	0.0257	0.892
0.002	0.0105	0.0071	0.0020	0.0095	0.0073	0.0022	0.0210	0.898
0.000	0.0082	0.0069	0.0024	0.0096	0.0067	0.0014	0.0201	0.816
0.000	0.0063	0.0059	0.0030	0.0125	0.0079	0.0008	0.0242	0.901
0.000	0.0059	0.0049	0.0020	0.0107	0.0067	0.0010	0.0204	0.817
0.000	0.0092	0.0022	0.0008	0.0038	0.0022		0.0068	0.827
0.001	0.0078	0.0028	0.0004	0.0054	0.0022	0.0002	0.0082	0.887
0.001	0.0092	0.0024	0.0012	0.0044	0.0026		0.0082	0.763
0.001	0.0270	0.0071	0.0043	0.0160	0.0087	0.0022	0.0312	0.966
0.001	0.0254	0.0077	0.0041	0.0144	0.0092	0.0024	0.0301	0.987
0.001	0.0172	0.0075	0.0051	0.0138	0.0083	0.0018	0.0290	0.977
0.003	0.0253	0.0073	0.0034	0.0136	0.0091	0.0022	0.0283	1.000
0.000	0.0110	0.0030	0.0020	0.0054	0.0022	0.0010	0.0106	0.765
0.000	0.0058	0.0010	0.0012	0.0028	0.0018		0.0058	0.723
0.000	0.0038	0.0012	0.0008	0.0014	0.0006		0.0028	0.650
0.001	0.0046	0.0002	0.0004	0.0004	0.0004		0.0012	0.681
0.000	0.0092	0.0032		0.0182	0.0036	0.0006	0.0224	0.770
0.000	0.0080	0.0032	0.0014	0.0060	0.0040	0.0006	0.0120	0.795
0.001	0.0060	0.0054	0.0016	0.0093	0.0058	0.0012	0.0179	0.762
0.000	0.0091	0.0056	0.0018	0.0093	0.0058	0.0010	0.0179	0.908
0.000	0.0075	0.0059	0.0036	0.0095	0.0075	0.0014	0.0220	0.928
0.000	0.0087	0.0058	0.0020	0.0103	0.0060	0.0018	0.0201	0.963

0.000	0.0102	0.0063	0.0022	0.0102	0.0063	0.0022	0.0209	0.981
0.000	0.0109	0.0059	0.0026	0.0105	0.0067	0.0016	0.0214	0.926
0.002	0.0120	0.0054	0.0018	0.0086	0.0046	0.0010	0.0160	1.034
0.000	0.0129	0.0048	0.0014	0.0090	0.0052	0.0010	0.0166	0.992
0.002	0.0116	0.0054	0.0024	0.0092	0.0052	0.0018	0.0186	0.955
0.001	0.0153	0.0063	0.0028	0.0113	0.0054	0.0012	0.0207	0.935
0.000	0.0115	0.0060	0.0006	0.0093	0.0046	0.0010	0.0155	1.004
0.000	0.0125	0.0054	0.0024	0.0105	0.0054	0.0014	0.0197	0.929
0.001	0.0101	0.0061	0.0010	0.0099	0.0060	0.0012	0.0181	0.953
0.000	0.0103	0.0059	0.0018	0.0087	0.0061	0.0006	0.0172	0.933
0.002	0.0105	0.0052	0.0020	0.0083	0.0056	0.0010	0.0169	0.944
0.000	0.0097	0.0062	0.0018	0.0084	0.0064	0.0009	0.0175	0.889
0.000	0.0085	0.0054	0.0034	0.0095	0.0054	0.0012	0.0195	0.785
0.000	0.0090	0.0052	0.0012	0.0070	0.0048	0.0016	0.0146	0.857
0.001	0.0098	0.0044	0.0012	0.0066	0.0034	0.0004	0.0116	0.764
0.000	0.0094	0.0040	0.0012	0.0044	0.0038	0.0006	0.0100	0.709
0.001	0.0106	0.0026	0.0006	0.0058	0.0032	0.0002	0.0098	0.773
0.001	0.0099	0.0032	0.0008	0.0052	0.0030	0.0006	0.0096	0.778
0.000	0.0092	0.0020	0.0012	0.0046	0.0026	0.0006	0.0090	0.795
0.001	0.0081	0.0048	0.0016	0.0072	0.0046	0.0016	0.0150	0.805
0.001	0.0099	0.0048	0.0018	0.0097	0.0076	0.0024	0.0215	0.857
0.000	0.0076	0.0052	0.0022	0.0088	0.0064	0.0014	0.0188	0.907
0.001	0.0075	0.0056	0.0026	0.0119	0.0077	0.0016	0.0238	0.940
0.001	0.0075	0.0059	0.0026	0.0095	0.0071	0.0016	0.0208	0.932
0.000	0.0086	0.0036	0.0028	0.0098	0.0046	0.0010	0.0182	0.955
0.000	0.0056	0.0018	0.0024	0.0078	0.0036	0.0012	0.0150	0.965
0.000	0.0060	0.0032	0.0022	0.0090	0.0040	0.0002	0.0154	1.084
0.000	0.0072	0.0028	0.0024	0.0086	0.0042	0.0008	0.0160	1.479
0.000	0.0058	0.0020	0.0016	0.0081	0.0026	0.0008	0.0131	1.067
0.000	0.0038	0.0032	0.0016	0.0089	0.0048	0.0006	0.0159	1.033
0.001	0.0016	0.0028	0.0018	0.0086	0.0036	0.0008	0.0148	0.954
0.000	0.0040	0.0022	0.0022	0.0073	0.0028	0.0006	0.0129	0.913
0.000	0.0044	0.0020	0.0020	0.0069	0.0020	0.0002	0.0111	0.946
0.000	0.0118	0.0060	0.0020	0.0112	0.0076	0.0060	0.0268	0.926
0.000	0.0079	0.0028	0.0006	0.0057	0.0028	0.0006	0.0097	0.615
0.000	0.0084	0.0056	0.0026	0.0096	0.0064	0.0012	0.0198	0.808
0.001	0.0080	0.0060	0.0020	0.0110	0.0072	0.0016	0.0218	0.809
0.000	0.0084	0.0048	0.0020	0.0096	0.0064	0.0014	0.0194	0.787
0.000	0.0081	0.0032	0.0010	0.0056	0.0032	0.0002	0.0100	0.784
0.000	0.0078	0.0028	0.0022	0.0052	0.0028	0.0006	0.0108	0.805
0.000	0.0083	0.0060	0.0014	0.0085	0.0054	0.0010	0.0163	0.740
0.000	0.0075	0.0083	0.0016	0.0091	0.0081	0.0020	0.0208	0.802
0.001	0.0077	0.0077	0.0026	0.0095	0.0075	0.0020	0.0216	0.838
0.002	0.0158	0.0075	0.0024	0.0107	0.0067	0.0008	0.0206	0.980
0.001	0.0216	0.0083	0.0022	0.0099	0.0061	0.0018	0.0200	0.933
0.000	0.0150	0.0089	0.0016	0.0101	0.0057	0.0016	0.0190	0.944
0.001	0.0184	0.0089	0.0028	0.0128	0.0081	0.0022	0.0259	0.961
0.001	0.0208	0.0097	0.0012	0.0099	0.0063	0.0014	0.0188	1.044

0.001	0.0343	0.0110	0.0033	0.0120	0.0082	0.0020	0.0255	1.079
0.002	0.0321	0.0114	0.0028	0.0116	0.0075	0.0014	0.0233	1.060
0.002	0.0350	0.0120	0.0035	0.0120	0.0079	0.0020	0.0254	1.026
0.002	0.0368	0.0118	0.0037	0.0124	0.0075	0.0014	0.0250	1.074
0.001	0.0218	0.0101	0.0020	0.0093	0.0056	0.0012	0.0181	0.997
0.001	0.0192	0.0101	0.0024	0.0111	0.0069	0.0016	0.0220	1.099
0.002	0.0146	0.0091	0.0026	0.0109	0.0083	0.0008	0.0226	1.056
0.001	0.0124	0.0087	0.0016	0.0105	0.0075	0.0012	0.0208	1.036
0.000	0.0107	0.0079	0.0020	0.0101	0.0069	0.0018	0.0208	0.837
0.001	0.0064	0.0069	0.0016	0.0111	0.0085	0.0026	0.0238	0.773
0.000	0.0016	0.0004		0.0008	0.0010	0.0006	0.0024	0.646
0.000	0.0066	0.0016		0.0020	0.0008		0.0028	0.631
0.001	0.0106	0.0018	0.0014	0.0036	0.0016	0.0008	0.0074	0.680
0.001	0.0294	0.0034	0.0022	0.0077	0.0036	0.0008	0.0143	0.912
0.001	0.0276	0.0042	0.0018	0.0069	0.0044	0.0008	0.0139	0.880
0.003	0.0293	0.0046	0.0012	0.0068	0.0034	0.0006	0.0120	0.921
0.002	0.0244	0.0048	0.0022	0.0071	0.0048	0.0014	0.0155	0.890
0.001	0.0299	0.0048	0.0022	0.0077	0.0036	0.0014	0.0149	0.917
0.002	0.0308	0.0048	0.0014	0.0079	0.0038	0.0012	0.0143	0.928
0.001	0.0246	0.0034	0.0022	0.0074	0.0024	0.0014	0.0134	0.869
0.001	0.0249	0.0026	0.0026	0.0078	0.0028	0.0006	0.0138	0.906
0.001	0.0191	0.0030	0.0016	0.0066	0.0024		0.0106	0.929
0.000	0.0181	0.0030	0.0018	0.0060	0.0022	0.0004	0.0104	0.945
0.001	0.0188	0.0030	0.0018	0.0066	0.0034	0.0004	0.0122	0.922
0.001	0.0166	0.0030	0.0016	0.0042	0.0008		0.0066	0.926
0.002	0.0126	0.0024	0.0012	0.0042	0.0012	0.0004	0.0070	0.902
0.000	0.0036	0.0002		0.0010	0.0004		0.0014	0.713
0.000	0.0050	0.0028	0.0044	0.0150	0.0054	0.0002	0.0250	0.941
0.000	0.0060	0.0032	0.0048	0.0149	0.0058	0.0010	0.0265	0.973
0.000	0.0091	0.0067	0.0089	0.0242	0.0095	0.0016	0.0442	0.904
0.000	0.0028	0.0022	0.0052	0.0144	0.0046	0.0002	0.0244	0.923
0.000	0.0026	0.0028	0.0032	0.0103	0.0026	0.0006	0.0167	0.951
0.000	0.0036	0.0040	0.0066	0.0162	0.0070	0.0012	0.0310	0.826
0.000	0.0050	0.0018	0.0052	0.0159	0.0060	0.0014	0.0285	0.899
0.000	0.0055	0.0010	0.0006	0.0041	0.0010	0.0006	0.0063	0.712
0.000	0.0068	0.0030	0.0082	0.0182	0.0060	0.0008	0.0332	0.880
0.000	0.0046	0.0046	0.0050	0.0166	0.0060	0.0000	0.0276	0.933
0.000	0.0016	0.0002	0.0008	0.0051	0.0010	0.0000	0.0069	0.447
0.000	0.0018	0.0012	0.0026	0.0087	0.0044	0.0012	0.0169	0.939
0.000	0.0026	0.0020	0.0062	0.0174	0.0042	0.0014	0.0292	0.912
0.000	0.0045	0.0000	0.0014	0.0047	0.0018	0.0000	0.0079	0.928
0.000	0.0013	0.0040	0.0050	0.0052	0.0023	0.0002	0.0127	0.746
0.000	0.0018	0.0034	0.0000	0.0064	0.0006	0.0004	0.0074	0.869
0.000	0.0060	0.0030	0.0072	0.0219	0.0070	0.0004	0.0365	0.769
0.000	0.0072	0.0014	0.0000	0.0012	0.0000	0.0002	0.0014	0.519
0.000	0.0069	0.0006	0.0016	0.0033	0.0002	0.0000	0.0051	1.045
0.000	0.0052	0.0030	0.0032	0.0121	0.0046	0.0014	0.0213	0.924

0.000	0.0018	0.0024	0.0048	0.0094	0.0032	0.0008	0.0182	0.874
0.000	0.0049	0.0012	0.0022	0.0063	0.0020	0.0000	0.0105	0.866
0.000	0.0045	0.0010	0.0036	0.0053	0.0006	0.0000	0.0095	0.868
0.000	0.0020	0.0008	0.0026	0.0079	0.0016	0.0000	0.0121	0.812
0.000	0.0047	0.0022	0.0012	0.0071	0.0043	0.0000	0.0126	0.861
0.000	0.0025	0.0022	0.0010	0.0029	0.0020	0.0004	0.0063	0.395
0.000	0.0034	0.0018	0.0049	0.0121	0.0044	0.0006	0.0220	1.000
0.000	0.0026	0.0030	0.0020	0.0052	0.0020	0.0006	0.0098	0.967
0.000	0.0038	0.0024	0.0060	0.0140	0.0032	0.0010	0.0242	0.822
0.000	0.0048	0.0032	0.0032	0.0134	0.0034	0.0002	0.0202	0.876
0.000	0.0032	0.0018	0.0026	0.0130	0.0036	0.0006	0.0198	0.907
0.000	0.0032	0.0034	0.0038	0.0138	0.0044	0.0010	0.0230	0.614
0.000	0.0042	0.0026	0.0024	0.0161	0.0066	0.0022	0.0273	0.903
0.000	0.0034	0.0046	0.0016	0.0076	0.0048	0.0006	0.0146	0.726
0.000	0.0044	0.0046	0.0018	0.0075	0.0046	0.0010	0.0149	0.719
0.000	0.0038	0.0026	0.0036	0.0126	0.0050	0.0018	0.0230	0.359
0.000	0.0032	0.0034	0.0042	0.0133	0.0066	0.0012	0.0253	0.916
0.000	0.0028	0.0026	0.0040	0.0150	0.0030	0.0004	0.0224	0.820
0.000	0.0038	0.0036	0.0036	0.0145	0.0073	0.0024	0.0278	0.985
0.000	0.0038	0.0030	0.0042	0.0145	0.0064	0.0026	0.0277	1.007
0.000	0.0028	0.0032	0.0042	0.0149	0.0050	0.0020	0.0261	0.945
0.000	0.0092	0.0014	0.0024	0.0059	0.0012	0.0006	0.0101	1.147
0.000	0.0055	0.0004	0.0016	0.0068	0.0025	0.0000	0.0109	1.034
0.000	0.0068	0.0031	0.0012	0.0076	0.0047	0.0006	0.0141	1.026
0.000	0.0027	0.0004	0.0018	0.0037	0.0002	0.0000	0.0057	0.897
0.000	0.0056	0.0034	0.0030	0.0133	0.0076	0.0000	0.0239	1.054
0.000	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.101
0.000	0.0004	0.0000	0.0006	0.0013	0.0004	0.0002	0.0025	0.100
0.000	0.0013	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.114
0.000	0.0050	0.0022	0.0040	0.0145	0.0069	0.0016	0.0270	1.005
0.000	0.0033	0.0024	0.0020	0.0104	0.0051	0.0002	0.0177	0.613
0.000	0.0072	0.0025	0.0014	0.0072	0.0045	0.0008	0.0139	0.752
0.000	0.0023	0.0002	0.0008	0.0012	0.0004	0.0006	0.0030	0.707
0.000	0.0081	0.0024	0.0022	0.0089	0.0026	0.0010	0.0147	1.019
0.000	0.0002	0.0000	0.0000	0.0002	0.0000	0.0000	0.0002	0.137
0.000	0.0053	0.0024	0.0053	0.0162	0.0040	0.0006	0.0261	0.839
0.000	0.0083	0.0026	0.0024	0.0100	0.0037	0.0008	0.0169	1.042
0.000	0.0045	0.0002	0.0000	0.0004	0.0012	0.0000	0.0016	0.617
0.000	0.0015	0.0008	0.0000	0.0000	0.0014	0.0004	0.0018	0.842
0.000	0.0014	0.0002	0.0000	0.0008	0.0008	0.0000	0.0016	0.728
0.000	0.0023	0.0000	0.0000	0.0008	0.0008	0.0000	0.0016	0.836
0.000	0.0023	0.0002	0.0006	0.0006	0.0000	0.0000	0.0012	0.829
0.000	0.0035	0.0014	0.0043	0.0116	0.0024	0.0004	0.0187	1.053
0.000	0.0051	0.0028	0.0042	0.0127	0.0040	0.0012	0.0221	0.862
0.000	0.0032	0.0028	0.0041	0.0130	0.0067	0.0000	0.0238	1.016

0.000	0.0040	0.0046	0.0030	0.0176	0.0072	0.0012	0.0290	1.017
0.000	0.0060	0.0040	0.0040	0.0174	0.0066	0.0018	0.0298	1.020
0.000	0.0054	0.0024	0.0014	0.0133	0.0030	0.0010	0.0187	0.911
0.000	0.0054	0.0036	0.0038	0.0154	0.0078	0.0012	0.0282	1.037
0.000	0.0110	0.0034	0.0054	0.0184	0.0064	0.0016	0.0318	0.976
0.000	0.0030	0.0018	0.0048	0.0109	0.0036	0.0000	0.0193	1.014
0.000	0.0036	0.0046	0.0040	0.0185	0.0094	0.0012	0.0331	1.093
0.000	0.0006	0.0038	0.0030	0.0063	0.0014	0.0000	0.0107	0.849
0.000	0.0039	0.0014	0.0038	0.0073	0.0034	0.0000	0.0145	0.812
0.000	0.0043	0.0026	0.0032	0.0105	0.0028	0.0008	0.0173	0.992
0.000	0.0046	0.0018	0.0028	0.0123	0.0046	0.0014	0.0211	1.005
0.000	0.0048	0.0032	0.0022	0.0135	0.0050	0.0002	0.0209	0.882
0.000	0.0070	0.0036	0.0026	0.0097	0.0050	0.0008	0.0181	0.709
0.000	0.0022	0.0054	0.0036	0.0152	0.0030	0.0000	0.0218	0.950
0.000	0.0055	0.0012	0.0043	0.0110	0.0018	0.0014	0.0185	1.159
0.000	0.0076	0.0032	0.0040	0.0149	0.0024	0.0004	0.0217	1.176
0.000	0.0059	0.0025	0.0012	0.0055	0.0043	0.0008	0.0118	0.862
0.000	0.0034	0.0040	0.0026	0.0117	0.0044	0.0010	0.0197	0.749
0.000	0.0020	0.0038	0.0012	0.0067	0.0020	0.0010	0.0109	0.723
0.000	0.0043	0.0026	0.0022	0.0118	0.0047	0.0002	0.0189	0.908
0.000	0.0034	0.0055	0.0026	0.0095	0.0030	0.0010	0.0161	0.631
0.000	0.0030	0.0038	0.0034	0.0078	0.0036	0.0000	0.0148	0.787
0.000	0.0022	0.0034	0.0028	0.0130	0.0048	0.0002	0.0208	0.899

0.000	0.0012	0.0006	0.0050	0.0012	0.0004	0.0072	0.814
0.000	0.0022	0.0014	0.0052	0.0020	0.0002	0.0088	0.798
0.000	0.0012	0.0034	0.0072	0.0026	0.0004	0.0136	0.822
0.000	0.0022	0.0022	0.0098	0.0044	0.0000	0.0164	0.795
0.000	0.0020	0.0048	0.0096	0.0040	0.0010	0.0194	0.738
0.000	0.0024	0.0024	0.0064	0.0032	0.0004	0.0124	0.789
0.000	0.0014	0.0020	0.0052	0.0014	0.0000	0.0086	0.743
0.000	0.0012	0.0020	0.0050	0.0024	0.0002	0.0096	0.792
0.000	0.0012	0.0012	0.0050	0.0020	0.0012	0.0094	0.000
0.000	0.0022	0.0028	0.0077	0.0046	0.0008	0.0159	0.921
0.000	0.0022	0.0040	0.0125	0.0056	0.0022	0.0243	0.936
0.000	0.0049	0.0031	0.0134	0.0092	0.0014	0.0271	0.922
0.000	0.0045	0.0074	0.0257	0.0126	0.0031	0.0488	0.904
0.000	0.0072	0.0049	0.0192	0.0124	0.0021	0.0386	0.964
0.000	0.0030	0.0026	0.0072	0.0052	0.0002	0.0152	0.812
0.000	0.0079	0.0043	0.0232	0.0172	0.0031	0.0478	1.109
0.000	0.0055	0.0057	0.0191	0.0111	0.0023	0.0382	0.911
0.000	0.0024	0.0008	0.0092	0.0026	0.0004	0.0130	0.727
0.000	0.0012	0.0030	0.0052	0.0032	0.0008	0.0122	0.807
0.000	0.0028	0.0030	0.0109	0.0062	0.0012	0.0213	0.859
0.000	0.0051	0.0049	0.0145	0.0104	0.0022	0.0320	0.945

0.000	0.0083	0.0073	0.0236	0.0145	0.0027	0.0481	0.934
0.000	0.0092	0.0050	0.0248	0.0171	0.0035	0.0504	0.965
0.000	0.0075	0.0041	0.0201	0.0145	0.0023	0.0410	1.190
0.000	0.0057	0.0057	0.0145	0.0111	0.0031	0.0344	1.037
0.000	0.0032	0.0020	0.0070	0.0072	0.0012	0.0174	0.842
0.000	0.0022	0.0016	0.0066	0.0044	0.0002	0.0128	0.876
0.000	0.0016	0.0002	0.0040	0.0014	0.0002	0.0058	0.769
0.000	0.0016	0.0024	0.0098	0.0032	0.0008	0.0162	0.662
0.000	0.0016	0.0008	0.0086	0.0034	0.0004	0.0132	0.848
0.000	0.0053	0.0072	0.0238	0.0129	0.0027	0.0466	0.758
0.000	0.0035	0.0065	0.0163	0.0116	0.0004	0.0348	0.754
0.000	0.0028	0.0056	0.0135	0.0056	0.0010	0.0257	0.708
0.000	0.0024	0.0020	0.0088	0.0050	0.0012	0.0170	0.836
0.000	0.0016	0.0028	0.0072	0.0028	0.0000	0.0128	0.827
0.000	0.0022	0.0024	0.0091	0.0032	0.0002	0.0149	0.739
0.000	0.0010	0.0008	0.0034	0.0026	0.0008	0.0076	0.856
0.000	0.0016	0.0004	0.0044	0.0024	0.0010	0.0082	0.837
0.000	0.0028	0.0016	0.0034	0.0024	0.0010	0.0084	0.758
0.000	0.0016	0.0018	0.0086	0.0030	0.0004	0.0138	0.879
0.000	0.0020	0.0032	0.0101	0.0024	0.0008	0.0165	0.864
0.000	0.0012	0.0022	0.0080	0.0036	0.0010	0.0148	0.903
0.000	0.0060	0.0054	0.0215	0.0124	0.0025	0.0418	0.971
0.000	0.0031	0.0037	0.0102	0.0061	0.0018	0.0218	0.988
0.000	0.0014	0.0036	0.0070	0.0030	0.0002	0.0138	0.890
0.000	0.0022	0.0014	0.0050	0.0034	0.0014	0.0112	0.770
0.000	0.0014	0.0010	0.0040	0.0024	0.0000	0.0074	0.865
0.000	0.0018	0.0062	0.0105	0.0038	0.0010	0.0215	1.011
0.000	0.0060	0.0064	0.0238	0.0141	0.0019	0.0462	1.047
0.000	0.0067	0.0055	0.0342	0.0195	0.0025	0.0617	1.345
0.000	0.0059	0.0082	0.0344	0.0178	0.0029	0.0633	1.341
0.000	0.0058	0.0060	0.0236	0.0126	0.0025	0.0447	1.149
0.000	0.0031	0.0049	0.0149	0.0108	0.0016	0.0322	1.176
0.000	0.0047	0.0026	0.0161	0.0112	0.0022	0.0321	0.981
0.000	0.0016	0.0012	0.0076	0.0024	0.0012	0.0124	0.819
0.000	0.0036	0.0018	0.0064	0.0034	0.0000	0.0116	0.628
0.000	0.0062	0.0016	0.0078	0.0078	0.0010	0.0182	0.817
0.000	0.0030	0.0012	0.0076	0.0058	0.0008	0.0154	0.889
0.000	0.0022	0.0018	0.0069	0.0020	0.0002	0.0109	0.766
0.000	0.0018	0.0006	0.0032	0.0016	0.0000	0.0054	0.807
0.000	0.0040	0.0036	0.0141	0.0097	0.0026	0.0300	0.992
0.000	0.0072	0.0047	0.0225	0.0131	0.0027	0.0430	1.134
0.000	0.0048	0.0042	0.0157	0.0088	0.0012	0.0299	0.978
0.000	0.0048	0.0030	0.0102	0.0084	0.0016	0.0232	0.925
0.000	0.0038	0.0028	0.0120	0.0062	0.0012	0.0222	0.933
0.000	0.0058	0.0014	0.0108	0.0072	0.0024	0.0218	0.908
0.000	0.0059	0.0028	0.0135	0.0085	0.0016	0.0264	0.921
0.000	0.0014	0.0016	0.0026	0.0016	0.0008	0.0066	0.761
0.000	0.0014	0.0028	0.0059	0.0010	0.0000	0.0097	0.806

0.000	0.0054	0.0062	0.0286	0.0183	0.0019	0.0550	0.992
0.000	0.0043	0.0049	0.0142	0.0105	0.0020	0.0316	1.327
0.000	0.0056	0.0036	0.0084	0.0058	0.0008	0.0186	0.901
0.000	0.0052	0.0050	0.0137	0.0105	0.0032	0.0324	0.943
0.000	0.0038	0.0008	0.0105	0.0085	0.0020	0.0218	0.965
0.000	0.0072	0.0055	0.0232	0.0160	0.0037	0.0484	1.152
0.000	0.0049	0.0032	0.0152	0.0093	0.0020	0.0297	1.186
0.000	0.0034	0.0026	0.0149	0.0079	0.0016	0.0270	1.000
0.000	0.0010	0.0020	0.0061	0.0024	0.0004	0.0109	0.815
0.000	0.0061	0.0022	0.0101	0.0075	0.0008	0.0206	0.927
0.000	0.0055	0.0014	0.0085	0.0063	0.0018	0.0180	0.851
0.000	0.0057	0.0039	0.0159	0.0106	0.0024	0.0328	0.856
0.000	0.0061	0.0061	0.0209	0.0120	0.0008	0.0398	1.136
0.000	0.0055	0.0040	0.0125	0.0089	0.0012	0.0266	0.805
0.000	0.0060	0.0037	0.0229	0.0136	0.0031	0.0433	1.093
0.000	0.0026	0.0036	0.0081	0.0036	0.0002	0.0155	0.841
0.000	0.0020	0.0034	0.0096	0.0020	0.0008	0.0158	0.879
0.000	0.0033	0.0037	0.0128	0.0073	0.0000	0.0238	1.000
0.000	0.0053	0.0041	0.0164	0.0107	0.0021	0.0333	1.028
0.000	0.0072	0.0029	0.0161	0.0109	0.0027	0.0326	0.964
0.000	0.0087	0.0033	0.0213	0.0120	0.0023	0.0389	1.108
0.000	0.0063	0.0044	0.0127	0.0071	0.0020	0.0262	1.052
0.000	0.0076	0.0031	0.0137	0.0113	0.0014	0.0295	1.048
0.000	0.0063	0.0026	0.0154	0.0091	0.0020	0.0291	0.975
0.000	0.0018	0.0046	0.0095	0.0040	0.0014	0.0195	0.928
0.000	0.0012	0.0030	0.0082	0.0038	0.0008	0.0158	0.895
0.000	0.0014	0.0020	0.0109	0.0036	0.0008	0.0173	0.867
0.000	0.0018	0.0032	0.0098	0.0036	0.0010	0.0176	0.905
0.000	0.0022	0.0046	0.0098	0.0028	0.0004	0.0176	0.888
0.000	0.0034	0.0024	0.0112	0.0066	0.0010	0.0212	0.929
0.000	0.0016	0.0050	0.0110	0.0042	0.0012	0.0214	1.017
0.000	0.0063	0.0008		0.0018	0.0008	0.0034	0.568
0.000	0.0040	0.0000	0.0034	0.0102	0.0026	0.0162	1.476
0.000	0.0050	0.0000	0.0036	0.0071	0.0016	0.0123	1.344
0.000	0.0049	0.0036	0.0138	0.0097	0.0008	0.0279	1.097
0.000	0.0058	0.0002	0.0042	0.0070	0.0012	0.0126	1.554
0.000	0.0054	0.0010	0.0054	0.0088	0.0014	0.0166	1.396
0.000	0.0066	0.0029	0.0204	0.0124	0.0021	0.0378	1.105
0.000	0.0053	0.0043	0.0154	0.0105	0.0029	0.0331	1.171
0.000	0.0020	0.0026	0.0062	0.0052	0.0014	0.0154	0.833
0.000	0.0014	0.0012	0.0073	0.0024	0.0006	0.0115	0.839
0.000	0.0020	0.0024	0.0081	0.0026	0.0000	0.0131	0.858
0.000	0.0008	0.0000	0.0010	0.0008	0.0010	0.0028	0.659
0.000	0.0038	0.0054	0.0165	0.0091	0.0020	0.0330	1.055
0.000	0.0048	0.0000	0.0074	0.0090	0.0010	0.0174	1.256
0.000	0.0059	0.0043	0.0203	0.0114	0.0014	0.0374	1.020
0.000	0.0051	0.0051	0.0160	0.0101	0.0012	0.0324	1.000
0.000	0.0034	0.0024	0.0116	0.0056	0.0016	0.0212	1.019

0.000	0.0042	0.0022	0.0133	0.0077	0.0010	0.0242	1.053
0.000	0.0049	0.0041	0.0177	0.0085	0.0014	0.0317	0.989
0.000	0.0018	0.0024	0.0054	0.0040	0.0008	0.0126	0.819
0.000	0.0022	0.0018	0.0069	0.0030	0.0004	0.0121	0.777
0.000	0.0060	0.0050	0.0209	0.0145	0.0035	0.0439	1.046
0.000	0.0036	0.0020	0.0127	0.0105	0.0026	0.0278	0.960
0.000	0.0038	0.0042	0.0115	0.0107	0.0018	0.0282	0.990
0.000	0.0024	0.0012	0.0099	0.0083	0.0016	0.0210	0.892
0.000	0.0036	0.0020	0.0109	0.0099	0.0026	0.0254	0.907
0.000	0.0048	0.0043	0.0192	0.0132	0.0027	0.0394	0.996
0.000	0.0050	0.0043	0.0211	0.0132	0.0019	0.0405	1.152
0.000	0.0068	0.0043	0.0154	0.0127	0.0029	0.0353	1.000
0.000	0.0053	0.0039	0.0154	0.0127	0.0031	0.0351	1.010
0.000	0.0018	0.0018	0.0091	0.0049	0.0006	0.0164	0.934
0.000		0.0012	0.0052	0.0028	0.0010	0.0102	0.971
0.000	0.0016	0.0033	0.0106	0.0045	0.0006	0.0190	0.819
0.000	0.0008	0.0031	0.0111	0.0053	0.0016	0.0211	0.844
0.000	0.0016	0.0058	0.0140	0.0058	0.0006	0.0262	0.794
0.000	0.0006	0.0044	0.0066	0.0040	0.0006	0.0156	0.878
0.000	0.0008	0.0022	0.0100	0.0048	0.0008	0.0178	0.769
0.000		0.0040	0.0067	0.0022	0.0010	0.0139	0.838
0.000		0.0046	0.0076	0.0042	0.0006	0.0170	0.877
0.000	0.0028	0.0006	0.0092	0.0049	0.0012	0.0159	0.837
0.000	0.0002	0.0036	0.0077	0.0030	0.0000	0.0143	0.808
0.000	0.0008	0.0038	0.0079	0.0030	0.0006	0.0153	0.687
0.000	0.0028	0.0016	0.0128	0.0076	0.0016	0.0236	0.982
0.000	0.0016	0.0014	0.0077	0.0057	0.0008	0.0156	0.928
0.000	0.0032	0.0028	0.0089	0.0070	0.0018	0.0205	0.937
0.000	0.0008	0.0028	0.0045	0.0024	0.0000	0.0097	0.840
0.000	0.0006	0.0050	0.0093	0.0042	0.0014	0.0199	0.898
0.000		0.0035	0.0089	0.0022	0.0006	0.0152	0.828
0.000	0.0008	0.0043	0.0067	0.0014	0.0002	0.0126	0.816
0.000		0.0022	0.0073	0.0020	0.0008	0.0123	0.767
0.000	0.0018	0.0010	0.0055	0.0024	0.0006	0.0095	0.796
0.000		0.0002	0.0020	0.0006	0.0000	0.0028	0.672
0.000		0.0021	0.0039	0.0010	0.0006	0.0076	0.675
0.000	0.0008	0.0006	0.0049	0.0016	0.0006	0.0077	0.828
0.000		0.0047	0.0047	0.0020	0.0004	0.0118	0.920
0.000	0.0002	0.0035	0.0049	0.0026	0.0000	0.0110	0.948
0.000	0.0018	0.0028	0.0120	0.0060	0.0008	0.0216	0.986
0.000		0.0002	0.0025	0.0006	0.0004	0.0037	0.686
0.000		0.0014	0.0025	0.0004	0.0010	0.0053	0.753
0.000		0.0043	0.0100	0.0049	0.0010	0.0202	0.859
0.000		0.0028	0.0071	0.0018	0.0002	0.0119	0.874
0.000	0.0014	0.0022	0.0045	0.0016	0.0006	0.0089	0.791
0.000	0.0002	0.0034	0.0077	0.0022	0.0002	0.0135	0.844
0.000	0.0008	0.0024	0.0084	0.0036	0.0010	0.0154	0.922
0.000		0.0024	0.0049	0.0020	0.0002	0.0095	0.929

0.000			0.0032	0.0075	0.0020	0.0004	0.0131	0.855
0.000		0.0008	0.0026	0.0114	0.0042	0.0004	0.0186	0.957
0.000			0.0028	0.0058	0.0032	0.0004	0.0122	0.854
0.000		0.0010	0.0034	0.0112	0.0058	0.0002	0.0206	0.883
0.000		0.0012	0.0050	0.0111	0.0052	0.0004	0.0217	0.877
0.000			0.0016	0.0047	0.0002	0.0002	0.0067	0.843
0.000	0.0000	0.0060	0.0045	0.0195	0.0142	0.0029	0.0411	1.012
0.000	0.0000	0.0053	0.0039	0.0169	0.0128	0.0026	0.0362	0.932
0.000	0.0000	0.0054	0.0032	0.0113	0.0105	0.0028	0.0278	0.898
0.000	0.0000	0.0006	0.0028	0.0050	0.0028	0.0006	0.0112	0.890
0.000	0.0000	0.0053	0.0059	0.0214	0.0163	0.0035	0.0471	0.792
0.000	0.0000	0.0052	0.0004	0.0127	0.0081	0.0028	0.0240	1.025
0.000	0.0000	0.0038	0.0016	0.0083	0.0087	0.0006	0.0192	0.938
0.000	0.0000	0.0010	0.0030	0.0048	0.0054	0.0008	0.0140	0.944
0.000	0.0000	0.0014	0.0030	0.0070	0.0046	0.0010	0.0156	0.910
0.000	0.0000	0.0016	0.0012	0.0056	0.0038	0.0000	0.0106	0.926
0.000	0.0000	0.0036	0.0022	0.0106	0.0104	0.0024	0.0256	0.953
0.000	0.0000	0.0004	0.0042	0.0124	0.0032	0.0002	0.0200	0.878
0.000	0.0000	0.0000	0.0048	0.0076	0.0024	0.0010	0.0158	0.833
0.000	0.0000	0.0000	0.0032	0.0090	0.0040	0.0006	0.0168	0.941
0.000	0.0000	0.0000	0.0020	0.0063	0.0028	0.0012	0.0123	0.907
0.000	0.0000	0.0002	0.0036	0.0075	0.0036	0.0014	0.0161	0.925
0.000	0.0000	0.0014	0.0036	0.0107	0.0044	0.0012	0.0199	0.864
0.000	0.0000	0.0000	0.0050	0.0097	0.0038	0.0000	0.0185	1.198
0.000	0.0000	0.0000	0.0024	0.0057	0.0022	0.0004	0.0107	0.893
0.000	0.0000	0.0000	0.0014	0.0075	0.0016	0.0002	0.0107	1.047
0.000	0.0000	0.0006	0.0030	0.0039	0.0016	0.0002	0.0087	0.865
0.000	0.0000	0.0000	0.0020	0.0057	0.0024	0.0004	0.0105	0.956
0.000	0.0000	0.0000	0.0039	0.0101	0.0034	0.0008	0.0182	0.761
0.000	0.0000	0.0008	0.0042	0.0093	0.0024	0.0000	0.0159	0.847
0.000	0.0000	0.0000	0.0052	0.0110	0.0048	0.0008	0.0218	0.736
0.000	0.0000	0.0008	0.0018	0.0049	0.0028	0.0000	0.0095	0.962
0.000	0.0000	0.0002	0.0000	0.0045	0.0016	0.0000	0.0061	0.966
0.000	0.0000	0.0000	0.0042	0.0090	0.0028	0.0006	0.0166	0.783
0.000	0.0000	0.0020	0.0034	0.0099	0.0056	0.0018	0.0207	0.880
0.000	0.0000	0.0000	0.0026	0.0100	0.0060	0.0014	0.0200	0.840
0.000	0.0000	0.0042	0.0054	0.0140	0.0092	0.0022	0.0308	0.930
0.000	0.0000	0.0048	0.0042	0.0151	0.0111	0.0018	0.0322	0.974
0.000	0.0000	0.0024	0.0010	0.0073	0.0048	0.0012	0.0143	0.813
0.000	0.0000	0.0055	0.0034	0.0170	0.0123	0.0028	0.0355	0.959
0.000	0.0000	0.0018	0.0006	0.0082	0.0056	0.0008	0.0152	0.753
0.000	0.0000	0.0032	0.0036	0.0152	0.0084	0.0008	0.0280	0.918
0.000	0.0000	0.0006	0.0036	0.0064	0.0048	0.0006	0.0154	0.895
0.000	0.0000	0.0012	0.0030	0.0071	0.0038	0.0008	0.0147	0.881
0.000	0.0000	0.0030	0.0002	0.0054	0.0032	0.0006	0.0094	0.851
0.000	0.0000	0.0028	0.0040	0.0130	0.0078	0.0016	0.0264	1.032
0.000	0.0000	0.0028	0.0036	0.0136	0.0084	0.0018	0.0274	0.983
0.000	0.0000	0.0030	0.0014	0.0079	0.0054	0.0008	0.0155	0.789

0.000	0.0000	0.0026	0.0018	0.0046	0.0034	0.0014	0.0112	0.845
0.000	0.0000	0.0024	0.0008	0.0065	0.0038	0.0000	0.0111	0.853
0.000	0.0000	0.0051	0.0063	0.0240	0.0149	0.0020	0.0472	0.989
0.000	0.0000	0.0022	0.0034	0.0120	0.0066	0.0016	0.0236	0.861
0.000	0.0000	0.0038	0.0063	0.0227	0.0132	0.0026	0.0448	0.902
0.000	0.0000	0.0020	0.0014	0.0077	0.0040	0.0010	0.0141	0.854
0.000	0.0000	0.0023	0.0000	0.0016	0.0004	0.0010	0.0030	0.119
0.000	0.0000	0.0022	0.0004	0.0058	0.0054	0.0012	0.0128	0.875
0.000	0.0000	0.0006	0.0000	0.0032	0.0014	0.0010	0.0056	0.807
0.000	0.0000	0.0008	0.0004	0.0054	0.0020	0.0000	0.0078	0.859
0.000	0.0000	0.0038	0.0010	0.0082	0.0054	0.0022	0.0168	0.814
0.000	0.0000	0.0006	0.0006	0.0052	0.0028	0.0002	0.0088	0.924
0.000	0.0000	0.0014	0.0044	0.0124	0.0042	0.0022	0.0232	0.884
0.000	0.0000	0.0020	0.0042	0.0139	0.0056	0.0010	0.0247	1.042
0.000	0.0000	0.0004	0.0040	0.0096	0.0044	0.0004	0.0184	0.931
0.000	0.0000	0.0022	0.0024	0.0109	0.0052	0.0004	0.0189	0.930
0.000	0.0000	0.0010	0.0024	0.0138	0.0052	0.0006	0.0220	0.900
0.000	0.0000	0.0012	0.0020	0.0080	0.0032	0.0006	0.0138	0.978
0.000	0.0000	0.0040	0.0024	0.0056	0.0052	0.0014	0.0146	0.864
0.000	0.0000	0.0012	0.0040	0.0118	0.0048	0.0002	0.0208	0.940
0.000	0.0000	0.0018	0.0040	0.0107	0.0044	0.0010	0.0201	0.940
0.000	0.0000	0.0030	0.0000	0.0070	0.0060	0.0016	0.0146	0.809
0.000	0.0000	0.0010	0.0034	0.0108	0.0044	0.0012	0.0198	0.884
0.000	0.0000	0.0038	0.0044	0.0121	0.0068	0.0010	0.0243	0.868
0.000	0.0000	0.0012	0.0016	0.0034	0.0030	0.0008	0.0088	0.969
0.000	0.0000	0.0028	0.0028	0.0117	0.0070	0.0018	0.0233	1.005
0.000	0.0000	0.0028	0.0034	0.0088	0.0042	0.0016	0.0180	0.852
0.000	0.0000	0.0038	0.0018	0.0106	0.0060	0.0012	0.0196	0.870
0.000	0.0000	0.0016	0.0022	0.0100	0.0040	0.0004	0.0166	1.079
0.000	0.0000	0.0038	0.0034	0.0141	0.0088	0.0018	0.0281	1.078
0.000	0.0000	0.0024	0.0024	0.0052	0.0040	0.0016	0.0132	1.005
0.000	0.0000	0.0020	0.0002	0.0002	0.0016	0.0008	0.0028	0.433
0.000	0.0000	0.0042	0.0036	0.0118	0.0092	0.0004	0.0250	1.040
0.000	0.0000	0.0002	0.0020	0.0034	0.0024	0.0004	0.0082	0.911
0.000	0.0000	0.0035	0.0016	0.0018	0.0041	0.0010	0.0085	0.428
0.000	0.0000	0.0034	0.0030	0.0104	0.0072	0.0006	0.0212	0.864
0.000	0.0000	0.0012	0.0054	0.0111	0.0036	0.0004	0.0205	0.888
0.000	0.0000	0.0032	0.0069	0.0176	0.0121	0.0018	0.0384	0.943
0.000	0.0000	0.0038	0.0010	0.0050	0.0038	0.0010	0.0108	0.817
0.000	0.0000	0.0041	0.0033	0.0163	0.0086	0.0020	0.0302	0.976
0.000	0.0000	0.0026	0.0028	0.0077	0.0042	0.0006	0.0153	0.952
0.000	0.0000	0.0026	0.0030	0.0088	0.0038	0.0008	0.0164	0.872
0.000	0.0000	0.0028	0.0022	0.0088	0.0062	0.0004	0.0176	0.875
0.000	0.0000	0.0028	0.0020	0.0117	0.0066	0.0010	0.0213	0.897
0.000	0.0000	0.0038	0.0032	0.0111	0.0087	0.0016	0.0246	0.922
0.000	0.0000	0.0026	0.0000	0.0000	0.0000	0.0012	0.0012	0.545
0.000	0.0000	0.0047	0.0053	0.0185	0.0116	0.0026	0.0380	0.943
0.000	0.0000	0.0034	0.0006	0.0008	0.0016	0.0006	0.0036	0.460

0.000	0.0000	0.0041	0.0060	0.0228	0.0132	0.0021	0.0441	1.008
0.000	0.0000	0.0032	0.0010	0.0068	0.0036	0.0004	0.0118	0.797
0.000	0.0000	0.0022	0.0006	0.0052	0.0022	0.0004	0.0084	0.887
0.000	0.0000	0.0008	0.0020	0.0071	0.0038	0.0006	0.0135	0.885
0.000	0.0000	0.0032	0.0010	0.0134	0.0085	0.0006	0.0235	0.914
0.000	0.0000	0.0030	0.0034	0.0125	0.0077	0.0008	0.0244	1.069
0.000	0.0000	0.0030	0.0028	0.0102	0.0084	0.0008	0.0222	1.024
0.000	0.0000	0.0026	0.0002	0.0038	0.0051	0.0010	0.0101	0.810
0.000	0.0000	0.0030	0.0061	0.0213	0.0128	0.0016	0.0418	0.803
0.000	0.0000	0.0041	0.0092	0.0261	0.0124	0.0033	0.0510	1.015
0.000	0.0000	0.0026	0.0048	0.0128	0.0086	0.0018	0.0280	0.993
0.000	0.0000	0.0010	0.0030	0.0071	0.0036	0.0008	0.0145	0.897
0.000	0.0000	0.0037	0.0059	0.0220	0.0116	0.0018	0.0413	0.980
0.000	0.0000	0.0028	0.0022	0.0134	0.0062	0.0008	0.0226	0.939
0.000	0.0000	0.0006	0.0012	0.0075	0.0034	0.0012	0.0133	0.921
0.000	0.0000	0.0028	0.0022	0.0046	0.0036	0.0004	0.0108	0.865
0.000	0.0000	0.0020	0.0012	0.0045	0.0022	0.0002	0.0081	0.867
0.000	0.0000	0.0010	0.0016	0.0101	0.0032	0.0014	0.0163	0.798
0.000	0.0000	0.0020	0.0014	0.0070	0.0048	0.0010	0.0142	0.897
0.000	0.0000	0.0049	0.0049	0.0194	0.0120	0.0031	0.0394	0.982
0.000	0.0000	0.0012	0.0000	0.0047	0.0020	0.0004	0.0071	0.913
0.000	0.0000	0.0024	0.0002	0.0056	0.0032	0.0000	0.0090	0.856
0.000	0.0000	0.0038	0.0008	0.0070	0.0050	0.0006	0.0134	0.836
0.000	0.0000	0.0012	0.0034	0.0067	0.0032	0.0002	0.0135	0.987
0.000	0.0000	0.0014	0.0050	0.0118	0.0058	0.0012	0.0238	0.915
0.000	0.0000	0.0006	0.0038	0.0105	0.0034	0.0006	0.0183	0.846
0.000	0.0000	0.0016	0.0044	0.0138	0.0050	0.0014	0.0246	0.895
0.000	0.0000	0.0030	0.0026	0.0090	0.0060	0.0008	0.0184	0.968
0.000	0.0000	0.0042	0.0036	0.0121	0.0066	0.0020	0.0243	0.950
0.000	0.0000	0.0044	0.0022	0.0108	0.0056	0.0010	0.0196	0.849
0.000	0.0000	0.0042	0.0024	0.0066	0.0046	0.0010	0.0146	0.909
0.000	0.0000	0.0030	0.0010	0.0066	0.0048	0.0010	0.0134	0.848
0.000	0.0000	0.0038	0.0000	0.0064	0.0040	0.0010	0.0114	0.868
0.000	0.0000	0.0042	0.0010	0.0080	0.0052	0.0004	0.0146	0.869
0.000	0.0000	0.0022	0.0006	0.0064	0.0032	0.0012	0.0114	0.947
0.000	0.0000	0.0022	0.0014	0.0070	0.0032	0.0006	0.0122	0.938
0.000	0.0000	0.0020	0.0012	0.0046	0.0024	0.0002	0.0084	0.944
0.000	0.0000	0.0091	0.0010	0.0099	0.0062	0.0017	0.0188	0.873
0.000	0.0000	0.0073	0.0020	0.0081	0.0063	0.0024	0.0188	0.734
0.000	0.0109	0.0079	0.0014	0.0083	0.0065	0.0026	0.0188	0.750
0.000	0.0189	0.0102	0.0026	0.0075	0.0065	0.0026	0.0192	0.925
0.000	0.0192	0.0098	0.0016	0.0114	0.0071	0.0020	0.0221	0.843
0.000	0.0109	0.0107	0.0006	0.0077	0.0067	0.0026	0.0176	0.807
0.000	0.0197	0.0109	0.0002	0.0090	0.0074	0.0029	0.0195	0.798
0.000	0.0117	0.0087	0.0000	0.0081	0.0057	0.0006	0.0144	0.863
0.000	0.0113	0.0077	0.0006	0.0065	0.0051	0.0016	0.0138	0.907
0.000	0.0089	0.0053	0.0002	0.0016	0.0032	0.0004	0.0054	0.740
0.000	0.0076	0.0092	0.0016	0.0052	0.0060	0.0014	0.0142	0.879

0.000	0.0110	0.0055	0.0000	0.0073	0.0049	0.0002	0.0124	0.680
0.000	0.0117	0.0054	0.0014	0.0056	0.0032	0.0028	0.0130	0.693
0.000	0.0075	0.0049	0.0012	0.0042	0.0032	0.0004	0.0090	0.869
0.000	0.0074	0.0050	0.0004	0.0046	0.0056	0.0000	0.0106	0.828
0.000	0.0104	0.0054	0.0032	0.0046	0.0048	0.0014	0.0140	0.795
0.000	0.0016	0.0002	0.0000	0.0000	0.0002	0.0002	0.0004	0.501
0.000	0.0006	0.0008	0.0000	0.0004	0.0004	0.0000	0.0008	0.482
0.000	0.0155	0.0098	0.0025	0.0082	0.0084	0.0033	0.0224	0.909
0.000	0.0174	0.0115	0.0012	0.0082	0.0059	0.0025	0.0178	0.855
0.000	0.0115	0.0064	0.0024	0.0058	0.0044	0.0022	0.0148	0.701
0.000	0.0143	0.0076	0.0016	0.0072	0.0048	0.0016	0.0152	0.853
0.000	0.0151	0.0067	0.0000	0.0039	0.0063	0.0006	0.0108	0.806
0.000	0.0136	0.0054	0.0012	0.0058	0.0038	0.0018	0.0126	0.760
0.000	0.0062	0.0070	0.0014	0.0038	0.0036	0.0018	0.0106	0.933
0.000	0.0109	0.0089	0.0018	0.0048	0.0048	0.0018	0.0132	0.828
0.000	0.0064	0.0028	0.0000	0.0016	0.0028	0.0002	0.0046	0.623
0.000	0.0108	0.0034	0.0000	0.0010	0.0014	0.0002	0.0026	0.709
0.000	0.0046	0.0034	0.0000	0.0022	0.0024	0.0000	0.0046	0.625
0.000	0.0048	0.0030	0.0018	0.0024	0.0012	0.0006	0.0060	0.599
0.000	0.0061	0.0030	0.0004	0.0024	0.0026	0.0012	0.0066	0.748
0.000	0.0044	0.0036	0.0014	0.0024	0.0022	0.0006	0.0066	0.650
0.000	0.0082	0.0034	0.0006	0.0044	0.0020	0.0006	0.0076	0.705
0.000	0.0058	0.0030	0.0000	0.0016	0.0026	0.0004	0.0046	0.699
0.000	0.0068	0.0030	0.0004	0.0036	0.0022	0.0012	0.0074	0.642
0.000	0.0087	0.0024	0.0002	0.0014	0.0016	0.0014	0.0046	0.711
0.000	0.0053	0.0036	0.0032	0.0026	0.0004	0.0012	0.0074	0.694
0.000	0.0058	0.0016	0.0016	0.0030	0.0018	0.0000	0.0064	0.670
0.000	0.0051	0.0026	0.0000	0.0020	0.0018	0.0018	0.0056	0.649
0.000	0.0034	0.0000	0.0004	0.0053	0.0024	0.0000	0.0081	0.587
0.000	0.0036	0.0006	0.0008	0.0012	0.0016	0.0000	0.0036	0.581
0.000	0.0038	0.0016	0.0022	0.0006	0.0000	0.0012	0.0040	0.571
0.000	0.0060	0.0016	0.0002	0.0004	0.0006	0.0002	0.0014	0.555
0.000	0.0058	0.0010	0.0000	0.0024	0.0030	0.0006	0.0060	0.466
0.000	0.0020	0.0004	0.0012	0.0014	0.0012	0.0000	0.0038	0.524
0.000	0.0000	0.0061	0.0020	0.0000	0.0024	0.0000	0.0044	0.544
0.000	0.0053	0.0037	0.0000	0.0041	0.0016	0.0012	0.0069	0.648
0.000	0.0080	0.0066	0.0000	0.0054	0.0042	0.0032	0.0128	0.710
0.000	0.0056	0.0081	0.0004	0.0079	0.0046	0.0000	0.0129	0.671
0.000	0.0067	0.0097	0.0022	0.0051	0.0051	0.0012	0.0136	0.799
0.000	0.0084	0.0110	0.0026	0.0104	0.0098	0.0031	0.0259	0.849
0.000	0.0179	0.0147	0.0015	0.0143	0.0074	0.0042	0.0274	0.950
0.000	0.0206	0.0187	0.0021	0.0143	0.0085	0.0015	0.0264	1.046
0.000	0.0176	0.0157	0.0017	0.0140	0.0103	0.0039	0.0299	0.996
0.000	0.0071	0.0103	0.0036	0.0091	0.0060	0.0012	0.0199	0.717
0.000	0.0092	0.0131	0.0008	0.0102	0.0096	0.0039	0.0245	0.923
0.000	0.0108	0.0132	0.0017	0.0096	0.0102	0.0021	0.0236	0.969
0.000	0.0111	0.0109	0.0016	0.0137	0.0111	0.0000	0.0264	0.935
0.000	0.0080	0.0068	0.0046	0.0044	0.0038	0.0000	0.0128	0.662

0.000	0.0085	0.0079	0.0034	0.0065	0.0030	0.0006	0.0135	0.850
0.000	0.0045	0.0012	0.0008	0.0006	0.0000	0.0000	0.0014	0.629
0.000	0.0036	0.0012	0.0000	0.0000	0.0038	0.0008	0.0046	0.663
0.000	0.0133	0.0120	0.0022	0.0153	0.0065	0.0031	0.0271	0.866
0.000	0.0092	0.0044	0.0008	0.0008	0.0010	0.0006	0.0032	0.831
0.000	0.0066	0.0084	0.0010	0.0064	0.0032	0.0000	0.0106	0.725
0.000	0.0090	0.0026	0.0000	0.0072	0.0022	0.0010	0.0104	0.678
0.000	0.0087	0.0089	0.0020	0.0045	0.0055	0.0006	0.0126	0.809
0.000	0.0063	0.0100	0.0018	0.0089	0.0067	0.0030	0.0204	0.841
0.000	0.0088	0.0161	0.0008	0.0096	0.0086	0.0024	0.0214	1.012
0.000	0.0087	0.0112	0.0024	0.0081	0.0099	0.0039	0.0243	0.855
0.000	0.0069	0.0109	0.0008	0.0105	0.0054	0.0028	0.0195	0.832
0.000	0.0116	0.0140	0.0014	0.0118	0.0103	0.0017	0.0252	0.950
0.000	0.0161	0.0104	0.0033	0.0104	0.0065	0.0024	0.0226	0.874
0.000	0.0128	0.0104	0.0014	0.0087	0.0073	0.0012	0.0186	0.898
0.000	0.0098	0.0098	0.0024	0.0079	0.0071	0.0022	0.0196	0.802
0.000	0.0153	0.0122	0.0018	0.0090	0.0061	0.0016	0.0185	0.875
0.000	0.0067	0.0079	0.0004	0.0069	0.0075	0.0020	0.0168	0.845
0.000	0.0091	0.0083	0.0004	0.0069	0.0050	0.0010	0.0133	0.716
0.000	0.0058	0.0038	0.0000	0.0078	0.0030	0.0010	0.0118	0.713
0.000	0.0125	0.0077	0.0002	0.0097	0.0038	0.0010	0.0147	0.913
0.000	0.0147	0.0081	0.0024	0.0087	0.0054	0.0028	0.0193	0.863
0.000	0.0151	0.0058	0.0020	0.0042	0.0052	0.0002	0.0116	0.846
0.000	0.0116	0.0064	0.0004	0.0052	0.0042	0.0008	0.0106	0.718
0.000	0.0130	0.0048	0.0016	0.0046	0.0024	0.0000	0.0086	0.663
0.000	0.0012	0.0000	0.0022	0.0008	0.0000	0.0000	0.0030	0.546
0.000	0.0024	0.0014	0.0000	0.0002	0.0000	0.0004	0.0006	0.565
0.000	0.0044	0.0034	0.0000	0.0016	0.0026	0.0000	0.0042	0.654
0.000	0.0062	0.0038	0.0000	0.0026	0.0022	0.0000	0.0048	0.778
0.000	0.0117	0.0042	0.0030	0.0040	0.0038	0.0010	0.0118	0.831
0.000	0.0176	0.0067	0.0039	0.0103	0.0059	0.0024	0.0225	0.705
0.000	0.0186	0.0053	0.0002	0.0065	0.0047	0.0024	0.0138	0.808
0.000	0.0173	0.0067	0.0026	0.0047	0.0037	0.0004	0.0114	0.790
0.000	0.0014	0.0000	0.0016	0.0000	0.0000	0.0000	0.0016	0.514
0.000	0.0020	0.0008	0.0000	0.0002	0.0012	0.0002	0.0016	0.591
0.000	0.0066	0.0044	0.0000	0.0036	0.0042	0.0054	0.0132	0.698
0.000	0.0137	0.0071	0.0016	0.0044	0.0044	0.0018	0.0122	0.250
0.000	0.0185	0.0070	0.0002	0.0068	0.0026	0.0020	0.0116	0.775
0.000	0.0125	0.0064	0.0000	0.0040	0.0030	0.0000	0.0070	0.672
0.000	0.0080	0.0046	0.0028	0.0040	0.0018	0.0004	0.0090	0.820
0.000	0.0130	0.0048	0.0020	0.0016	0.0026	0.0022	0.0084	0.655
0.000	0.0076	0.0040	0.0000	0.0034	0.0024	0.0000	0.0058	0.666
0.000	0.0008	0.0000	0.0004	0.0006	0.0000	0.0002	0.0012	0.527
0.000	0.0020	0.0000	0.0018	0.0010	0.0008	0.0000	0.0036	0.541
0.000	0.0020	0.0000	0.0000	0.0000	0.0006	0.0006	0.0012	0.494
0.000	0.0029	0.0004	0.0006	0.0000	0.0000	0.0000	0.0006	0.547
0.000	0.0010	0.0000	0.0000	0.0002	0.0000	0.0006	0.0008	0.414
0.000	0.0027	0.0004	0.0014	0.0006	0.0020	0.0000	0.0040	0.542

0.000	0.0033	0.0004	0.0000	0.0020	0.0010	0.0008	0.0038	0.610
0.000	0.0014	0.0010	0.0000	0.0000	0.0000	0.0000	0.0000	0.531
0.000	0.0012	0.0000	0.0014	0.0000	0.0014	0.0000	0.0028	0.471
0.000	0.0035	0.0010	0.0000	0.0006	0.0010	0.0008	0.0024	0.393
0.000	0.0073	0.0014	0.0000	0.0012	0.0008	0.0006	0.0026	0.703
0.000	0.0037	0.0014	0.0006	0.0020	0.0018	0.0000	0.0044	0.637
0.000	0.0125	0.0046	0.0010	0.0014	0.0036	0.0000	0.0060	0.798
0.000	0.0019	0.0000	0.0000	0.0000	0.0000	0.0004	0.0004	0.504
0.000	0.0043	0.0002	0.0000	0.0008	0.0000	0.0000	0.0008	0.547
0.000	0.0047	0.0002	0.0004	0.0012	0.0010	0.0000	0.0026	0.489
0.000	0.0035	0.0008	0.0002	0.0016	0.0012	0.0000	0.0030	0.572
0.000	0.0035	0.0012	0.0012	0.0004	0.0014	0.0006	0.0036	0.620
0.000	0.0027	0.0012	0.0023	0.0000	0.0008	0.0006	0.0037	0.612
0.000	0.0059	0.0041	0.0000	0.0026	0.0030	0.0000	0.0056	0.741
0.000	0.0075	0.0022	0.0000	0.0022	0.0008	0.0002	0.0032	0.736
0.000	0.0057	0.0014	0.0000	0.0008	0.0004	0.0000	0.0012	0.606
0.000	0.0064	0.0104	0.0000	0.0060	0.0060	0.0014	0.0134	0.787
0.000	0.0060	0.0116	0.0022	0.0100	0.0060	0.0032	0.0214	0.772
0.000	0.0037	0.0008	0.0000	0.0002	0.0010	0.0004	0.0016	0.552
0.000	0.0101	0.0057	0.0000	0.0038	0.0028	0.0018	0.0084	0.723
0.000	0.0051	0.0018	0.0000	0.0006	0.0010	0.0000	0.0016	0.687
0.000	0.0041	0.0006	0.0012	0.0000	0.0000	0.0000	0.0012	0.627
0.000	0.0000	0.0006	0.0004	0.0006	0.0000	0.0002	0.0012	0.527
0.000	0.0000	0.0014	0.0018	0.0010	0.0008	0.0000	0.0036	0.541
0.000	0.0000	0.0014	0.0000	0.0000	0.0006	0.0006	0.0012	0.494
0.000	0.0004	0.0023	0.0006	0.0000	0.0000	0.0000	0.0006	0.547
0.000	0.0000	0.0008	0.0000	0.0002	0.0000	0.0006	0.0008	0.414
0.000	0.0006	0.0021	0.0014	0.0006	0.0020	0.0000	0.0040	0.542
0.000	0.0006	0.0026	0.0000	0.0020	0.0010	0.0008	0.0038	0.610
0.000	0.0012	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	0.531
0.000	0.0000	0.0008	0.0014	0.0000	0.0014	0.0000	0.0028	0.471
0.000	0.0014	0.0027	0.0000	0.0006	0.0010	0.0008	0.0024	0.393
0.000	0.0018	0.0055	0.0000	0.0012	0.0008	0.0006	0.0026	0.705
0.000	0.0018	0.0029	0.0006	0.0020	0.0018	0.0000	0.0044	0.637
0.000	0.0000	0.0015	0.0000	0.0000	0.0000	0.0004	0.0004	0.504
0.000	0.0060	0.0095	0.0010	0.0014	0.0036	0.0000	0.0060	0.798
0.000	0.0002	0.0033	0.0000	0.0008	0.0000	0.0000	0.0008	0.547
0.000	0.0002	0.0035	0.0004	0.0012	0.0010	0.0000	0.0026	0.489
0.000	0.0010	0.0027	0.0002	0.0016	0.0012	0.0000	0.0030	0.572
0.000	0.0016	0.0027	0.0012	0.0004	0.0014	0.0006	0.0036	0.620
0.000	0.0016	0.0022	0.0023	0.0000	0.0008	0.0006	0.0037	0.612
0.000	0.0055	0.0045	0.0000	0.0026	0.0030	0.0000	0.0056	0.741
0.000	0.0028	0.0057	0.0000	0.0022	0.0008	0.0002	0.0032	0.736
0.000	0.0018	0.0043	0.0000	0.0008	0.0004	0.0000	0.0012	0.606
0.000	0.0136	0.0048	0.0000	0.0060	0.0060	0.0014	0.0134	0.785
0.000	0.0151	0.0046	0.0022	0.0100	0.0060	0.0032	0.0214	0.773
0.000	0.0010	0.0029	0.0000	0.0002	0.0010	0.0004	0.0016	0.552
0.000	0.0073	0.0077	0.0000	0.0038	0.0028	0.0018	0.0084	0.723

0.000	0.0024	0.0039	0.0000	0.0006	0.0010	0.0000	0.0016	0.687
0.000	0.0008	0.0031	0.0012	0.0000	0.0000	0.0000	0.0012	0.627
0.000	0.0028	0.0050	0.0072	0.0150	0.0032	0.0008	0.0262	0.941
0.000	0.0066	0.0020	0.0072	0.0150	0.0032	0.0008	0.0262	0.941
0.000	0.0024	0.0032	0.0016	0.0090	0.0022	0.0008	0.0136	1.020
0.000	0.0044	0.0018	0.0016	0.0090	0.0022	0.0008	0.0136	1.020
0.000	0.0022	0.0012	0.0032	0.0089	0.0044	0.0002	0.0167	0.923
0.000	0.0016	0.0018	0.0032	0.0089	0.0044	0.0002	0.0167	0.923
0.000	0.0022	0.0018	0.0026	0.0097	0.0014	0.0000	0.0137	1.078
0.000	0.0036	0.0040	0.0066	0.0162	0.0070	0.0012	0.0310	0.826
0.000	0.0047	0.0014	0.0012	0.0047	0.0051	0.0016	0.0126	0.880
0.000	0.0018	0.0038	0.0012	0.0048	0.0051	0.0016	0.0127	0.880
0.000	0.0066	0.0016	0.0016	0.0082	0.0056	0.0008	0.0162	0.844
0.000	0.0040	0.0034	0.0043	0.0081	0.0026	0.0008	0.0158	1.124
0.000	0.0043	0.0030	0.0043	0.0081	0.0026	0.0008	0.0158	1.124
0.000	0.0024	0.0035	0.0055	0.0132	0.0022	0.0004	0.0213	0.945
0.000	0.0045	0.0018	0.0055	0.0132	0.0022	0.0004	0.0213	0.947
0.000	0.0016	0.0018	0.0036	0.0087	0.0030	0.0000	0.0153	0.790
0.000	0.0022	0.0012	0.0036	0.0087	0.0030	0.0000	0.0153	0.790
0.000	0.0026	0.0030	0.0008	0.0071	0.0016	0.0000	0.0095	0.942
0.000	0.0038	0.0020	0.0008	0.0071	0.0016	0.0000	0.0095	0.942
0.000	0.0024	0.0024	0.0040	0.0113	0.0032	0.0000	0.0185	0.867
0.000	0.0030	0.0018	0.0040	0.0113	0.0032	0.0000	0.0185	0.867
0.000	0.0008	0.0006	0.0018	0.0079	0.0020	0.0000	0.0117	0.977
0.000	0.0026	0.0006	0.0049	0.0099	0.0010	0.0000	0.0158	0.954
0.000	0.0006	0.0020	0.0049	0.0099	0.0010	0.0000	0.0158	0.956
0.000	0.0052	0.0032	0.0058	0.0144	0.0050	0.0008	0.0260	1.062
0.000	0.0042	0.0040	0.0058	0.0144	0.0050	0.0008	0.0260	1.062
0.000	0.0069	0.0052	0.0101	0.0234	0.0077	0.0016	0.0428	0.816
0.000	0.0020	0.0016	0.0055	0.0095	0.0028	0.0000	0.0178	0.924
0.000	0.0026	0.0018	0.0043	0.0105	0.0000	0.0000	0.0148	0.898
0.000	0.0022	0.0020	0.0043	0.0105	0.0000	0.0000	0.0148	0.898
0.000	0.0044	0.0014	0.0042	0.0136	0.0044	0.0012	0.0234	1.003
0.000	0.0018	0.0032	0.0042	0.0136	0.0044	0.0012	0.0234	1.003
0.000	0.0028	0.0066	0.0038	0.0151	0.0085	0.0016	0.0290	1.092
0.000	0.0004	0.0014	0.0008	0.0045	0.0020	0.0004	0.0077	0.834
0.000	0.0038	0.0034	0.0038	0.0093	0.0012	0.0000	0.0143	0.960
0.000	0.0045	0.0030	0.0038	0.0093	0.0012	0.0000	0.0143	0.960
0.000	0.0008	0.0016	0.0023	0.0067	0.0012	0.0000	0.0102	0.899
0.000	0.0022	0.0006	0.0023	0.0066	0.0012	0.0000	0.0101	0.899
0.000	0.0032	0.0022	0.0020	0.0083	0.0035	0.0000	0.0138	0.940
0.000	0.0028	0.0026	0.0020	0.0083	0.0035	0.0000	0.0138	0.940
0.000	0.0038	0.0046	0.0050	0.0222	0.0032	0.0004	0.0308	0.912
0.000	0.0060	0.0030	0.0050	0.0221	0.0032	0.0004	0.0307	0.912
0.000	0.0030	0.0042	0.0048	0.0169	0.0046	0.0000	0.0263	0.965
0.000	0.0054	0.0024	0.0048	0.0169	0.0046	0.0000	0.0263	0.965

0.000	0.0036	0.0032	0.0022	0.0093	0.0042	0.0008	0.0165	0.968
0.000	0.0042	0.0028	0.0022	0.0093	0.0042	0.0008	0.0165	0.968
0.000	0.0028	0.0014	0.0032	0.0089	0.0012	0.0004	0.0137	0.958
0.000	0.0018	0.0022	0.0032	0.0089	0.0012	0.0004	0.0137	0.958
0.000	0.0060	0.0046	0.0078	0.0247	0.0086	0.0010	0.0421	1.021
0.000	0.0032	0.0016	0.0042	0.0079	0.0028	0.0008	0.0157	0.856
0.000	0.0020	0.0024	0.0042	0.0079	0.0028	0.0008	0.0157	0.856
0.000	0.0024	0.0030	0.0032	0.0103	0.0036	0.0000	0.0171	1.033
0.000	0.0028	0.0060	0.0034	0.0152	0.0062	0.0018	0.0266	1.068
0.000	0.0018	0.0022	0.0016	0.0083	0.0002	0.0000	0.0101	0.811
0.000	0.0030	0.0014	0.0016	0.0083	0.0002	0.0000	0.0101	0.811
0.000	0.0016	0.0022	0.0026	0.0073	0.0024	0.0010	0.0133	0.992
0.000	0.0018	0.0020	0.0046	0.0105	0.0028	0.0006	0.0185	1.050
0.000	0.0050	0.0024	0.0092	0.0240	0.0052	0.0008	0.0392	0.776
0.000	0.0036	0.0044	0.0050	0.0140	0.0054	0.0000	0.0244	0.982
0.000	0.0026	0.0012	0.0018	0.0073	0.0010	0.0008	0.0109	0.945
0.000	0.0018	0.0028	0.0028	0.0049	0.0000	0.0000	0.0077	1.038
0.000	0.0022	0.0018	0.0020	0.0071	0.0014	0.0002	0.0107	0.906
0.000	0.0044	0.0034	0.0028	0.0082	0.0040	0.0002	0.0152	0.884
0.000	0.0016	0.0024	0.0002	0.0065	0.0018	0.0006	0.0091	1.016
0.000	0.0054	0.0044	0.0052	0.0104	0.0044	0.0014	0.0214	0.898
0.000	0.0044	0.0036	0.0050	0.0123	0.0034	0.0014	0.0221	0.886
0.000	0.0060	0.0030	0.0034	0.0082	0.0064	0.0002	0.0182	0.873
0.000	0.0024	0.0160	0.0036	0.0140	0.0040	0.0002	0.0218	1.520
0.000	0.0016	0.0028	0.0030	0.0091	0.0032	0.0004	0.0157	1.077
0.000	0.0062	0.0040	0.0042	0.0136	0.0062	0.0008	0.0248	0.923
0.000	0.0044	0.0042	0.0040	0.0134	0.0056	0.0016	0.0246	1.066
0.000	0.0054	0.0042	0.0030	0.0128	0.0042	0.0006	0.0206	1.119
0.000	0.0008	0.0024	0.0024	0.0085	0.0008	0.0002	0.0119	1.264
0.000	0.0038	0.0122	0.0034	0.0160	0.0046	0.0002	0.0242	1.300
0.000	0.0022	0.0155	0.0069	0.0206	0.0034	0.0000	0.0309	1.398
0.000	0.0046	0.0034	0.0042	0.0078	0.0050	0.0018	0.0188	0.887
0.000	0.0052	0.0046	0.0038	0.0126	0.0052	0.0010	0.0226	0.940
0.000	0.0030	0.0034	0.0052	0.0110	0.0054	0.0000	0.0216	0.937
0.000	0.0002	0.0010	0.0028	0.0061	0.0004	0.0000	0.0093	1.155
0.000	0.0038	0.0048	0.0034	0.0092	0.0030	0.0012	0.0168	0.871
0.000	0.0036	0.0034	0.0046	0.0116	0.0052	0.0012	0.0226	0.895
0.000	0.0022	0.0284	0.0056	0.0162	0.0052	0.0000	0.0270	1.574
0.000	0.0066	0.0048	0.0046	0.0105	0.0071	0.0020	0.0242	0.886
0.000	0.0044	0.0040	0.0026	0.0091	0.0032	0.0012	0.0161	0.877
0.000	0.0034	0.0038	0.0048	0.0131	0.0022	0.0006	0.0207	0.954
0.000	0.0020	0.0024	0.0026	0.0114	0.0028	0.0010	0.0178	0.953
0.000	0.0052	0.0040	0.0036	0.0112	0.0062	0.0008	0.0218	0.875
0.000	0.0037	0.0041	0.0014	0.0057	0.0018	0.0000	0.0089	0.778
0.000	0.0018	0.0016	0.0022	0.0071	0.0016	0.0002	0.0111	0.828
0.000	0.0052	0.0042	0.0034	0.0115	0.0042	0.0004	0.0195	0.896
0.000	0.0024	0.0042	0.0014	0.0099	0.0030	0.0004	0.0147	1.242
0.000	0.0032	0.0070	0.0030	0.0108	0.0046	0.0000	0.0184	1.327

0.000	0.0020	0.0004	0.0002	0.0028	0.0000	0.0000	0.0030	0.746
0.000	0.0030	0.0014	0.0000	0.0046	0.0018	0.0006	0.0070	0.795
0.000	0.0038	0.0006	0.0018	0.0032	0.0008	0.0008	0.0066	0.793
0.000	0.0040	0.0024	0.0016	0.0081	0.0022	0.0000	0.0119	0.825
0.000	0.0050	0.0016	0.0028	0.0072	0.0016	0.0008	0.0124	0.737
0.000	0.0067	0.0022	0.0037	0.0144	0.0049	0.0004	0.0234	0.936
0.000	0.0049	0.0034	0.0026	0.0142	0.0039	0.0000	0.0207	1.074
0.000	0.0063	0.0037	0.0039	0.0144	0.0057	0.0008	0.0248	1.129
0.000	0.0066	0.0039	0.0043	0.0174	0.0047	0.0008	0.0272	1.125
0.000	0.0065	0.0045	0.0039	0.0175	0.0067	0.0000	0.0281	1.009
0.000	0.0082	0.0031	0.0055	0.0192	0.0074	0.0014	0.0335	0.899
0.000	0.0043	0.0024	0.0020	0.0132	0.0043	0.0000	0.0195	0.930
0.000	0.0062	0.0018	0.0014	0.0070	0.0024	0.0000	0.0108	0.828
0.000	0.0056	0.0022	0.0018	0.0082	0.0036	0.0012	0.0148	0.835
0.000	0.0105	0.0043	0.0049	0.0218	0.0074	0.0010	0.0351	1.022
0.000	0.0060	0.0026	0.0032	0.0091	0.0056	0.0006	0.0185	0.856
0.000	0.0084	0.0037	0.0066	0.0221	0.0070	0.0006	0.0363	0.825
0.000	0.0115	0.0039	0.0060	0.0222	0.0091	0.0000	0.0373	1.237
0.000	0.0053	0.0036	0.0026	0.0142	0.0049	0.0016	0.0233	0.965
0.000	0.0016	0.0006	0.0012	0.0040	0.0000	0.0000	0.0052	0.807
0.000	0.0018	0.0010	0.0000	0.0022	0.0016	0.0000	0.0038	0.727
0.000	0.0079	0.0026	0.0012	0.0079	0.0018	0.0000	0.0109	0.881
0.000	0.0028	0.0006	0.0020	0.0060	0.0004	0.0002	0.0086	0.843
0.000	0.0057	0.0008	0.0026	0.0116	0.0024	0.0000	0.0166	1.036
0.000	0.0024	0.0002	0.0038	0.0108	0.0012	0.0000	0.0158	0.951
0.000	0.0092	0.0037	0.0043	0.0168	0.0055	0.0002	0.0268	0.981
0.000	0.0077	0.0108	0.0017	0.0242	0.0146	0.0044	0.0449	1.039
0.000	0.0065	0.0047	0.0027	0.0165	0.0084	0.0004	0.0280	0.819
0.000	0.0047	0.0026	0.0049	0.0132	0.0026	0.0000	0.0207	0.858
0.000	0.0022	0.0002	0.0000	0.0016	0.0004	0.0006	0.0026	0.803
0.000	0.0061	0.0032	0.0022	0.0081	0.0040	0.0002	0.0145	0.848
0.000	0.0038	0.0030	0.0016	0.0145	0.0030	0.0016	0.0207	0.877
0.000	0.0046	0.0030	0.0008	0.0070	0.0022	0.0000	0.0100	0.818
0.000	0.0042	0.0010	0.0022	0.0054	0.0024	0.0002	0.0102	0.800
0.000	0.0036	0.0026	0.0026	0.0137	0.0044	0.0000	0.0207	0.922
0.000	0.0082	0.0033	0.0041	0.0206	0.0039	0.0008	0.0294	0.958
0.000	0.0063	0.0039	0.0031	0.0173	0.0055	0.0020	0.0279	0.963
0.000	0.0104	0.0037	0.0057	0.0178	0.0041	0.0006	0.0282	0.911
0.000	0.0056	0.0024	0.0020	0.0117	0.0046	0.0016	0.0199	0.952
0.000	0.0030	0.0024	0.0014	0.0064	0.0030	0.0004	0.0112	0.787
0.000	0.0036	0.0004	0.0000	0.0044	0.0018	0.0008	0.0070	0.809
0.000	0.0032	0.0022	0.0012	0.0084	0.0026	0.0000	0.0122	0.653
0.000	0.0040	0.0024	0.0030	0.0156	0.0048	0.0014	0.0248	0.876
0.000	0.0092	0.0035	0.0063	0.0171	0.0024	0.0018	0.0276	0.927
0.000	0.0039	0.0016	0.0004	0.0100	0.0014	0.0000	0.0118	0.650
0.000	0.0055	0.0034	0.0034	0.0118	0.0020	0.0010	0.0182	0.877
0.000	0.0042	0.0024	0.0056	0.0084	0.0022	0.0006	0.0168	0.828
0.000	0.0087	0.0022	0.0020	0.0093	0.0036	0.0004	0.0153	0.745

0.000	0.0042	0.0020	0.0040	0.0030	0.0018	0.0000	0.0088	0.801
0.000	0.0046	0.0016	0.0000	0.0062	0.0038	0.0020	0.0120	0.601
0.000	0.0030	0.0006	0.0002	0.0046	0.0004	0.0016	0.0068	0.691
0.000	0.0028	0.0004	0.0006	0.0064	0.0022	0.0000	0.0092	0.753
0.000	0.0028	0.0014	0.0042	0.0073	0.0018	0.0000	0.0133	0.872
0.000	0.0026	0.0028	0.0006	0.0070	0.0024	0.0000	0.0100	0.722
0.000	0.0042	0.0012	0.0008	0.0082	0.0000	0.0000	0.0090	0.930
0.000	0.0098	0.0033	0.0029	0.0172	0.0037	0.0008	0.0246	1.069
0.000	0.0063	0.0031	0.0049	0.0148	0.0065	0.0004	0.0266	0.740
0.000	0.0056	0.0020	0.0038	0.0062	0.0022	0.0016	0.0138	0.756
0.000	0.0075	0.0030	0.0024	0.0148	0.0059	0.0004	0.0235	0.911
0.000	0.0052	0.0030	0.0014	0.0106	0.0028	0.0006	0.0154	0.797
0.000	0.0000	0.0002	0.0000	0.0020	0.0000	0.0016	0.0036	0.514
0.000	0.0075	0.0028	0.0057	0.0170	0.0049	0.0008	0.0284	0.833
0.000	0.0044	0.0016	0.0034	0.0078	0.0040	0.0006	0.0158	0.777
0.000	0.0036	0.0014	0.0000	0.0056	0.0012	0.0000	0.0068	0.755
0.000	0.0018	0.0004	0.0022	0.0006	0.0000	0.0006	0.0034	0.824
0.000	0.0036	0.0016	0.0022	0.0067	0.0004	0.0000	0.0093	0.807
0.000	0.0038	0.0024	0.0028	0.0034	0.0012	0.0008	0.0082	0.800
0.000	0.0008	0.0004	0.0018	0.0035	0.0000	0.0000	0.0053	0.769
0.000	0.0046	0.0014	0.0000	0.0055	0.0020	0.0004	0.0079	0.763
0.000	0.0067	0.0028	0.0044	0.0172	0.0055	0.0000	0.0271	1.066
0.000	0.0069	0.0029	0.0078	0.0173	0.0057	0.0004	0.0312	1.083
0.000	0.0040	0.0016	0.0018	0.0050	0.0024	0.0010	0.0102	0.833
0.000	0.0063	0.0035	0.0051	0.0204	0.0088	0.0016	0.0359	0.934
0.000	0.0035	0.0004	0.0004	0.0043	0.0000	0.0000	0.0047	0.908
0.000	0.0048	0.0038	0.0062	0.0141	0.0050	0.0014	0.0267	1.217
0.000	0.0047	0.0030	0.0043	0.0203	0.0030	0.0006	0.0282	1.012
0.000	0.0034	0.0006	0.0028	0.0122	0.0018	0.0014	0.0182	0.942
0.000	0.0046	0.0024	0.0042	0.0119	0.0042	0.0000	0.0203	1.117
0.000	0.0059	0.0034	0.0075	0.0154	0.0044	0.0006	0.0279	1.136
0.000	0.0044	0.0038	0.0020	0.0169	0.0050	0.0022	0.0261	0.940
0.000	0.0052	0.0034	0.0046	0.0103	0.0048	0.0000	0.0197	1.004
0.000	0.0048	0.0020	0.0034	0.0094	0.0034	0.0004	0.0166	1.037
0.000	0.0059	0.0026	0.0063	0.0191	0.0053	0.0002	0.0309	0.959
0.000	0.0038	0.0012	0.0008	0.0076	0.0012	0.0004	0.0100	0.778
0.000	0.0038	0.0026	0.0034	0.0117	0.0028	0.0014	0.0193	0.970
0.000	0.0075	0.0047	0.0041	0.0197	0.0094	0.0016	0.0348	0.988
0.000	0.0032	0.0006	0.0008	0.0040	0.0016	0.0008	0.0072	0.622
0.000	0.0063	0.0037	0.0035	0.0198	0.0084	0.0006	0.0323	0.960
0.000	0.0026	0.0034	0.0030	0.0137	0.0040	0.0016	0.0223	0.873
0.000	0.0034	0.0014	0.0024	0.0067	0.0010	0.0010	0.0111	0.863
0.000	0.0026	0.0026	0.0018	0.0132	0.0046	0.0016	0.0212	0.921
0.000	0.0050	0.0030	0.0048	0.0123	0.0026	0.0002	0.0199	0.961
0.000	0.0066	0.0028	0.0020	0.0078	0.0024	0.0000	0.0122	0.813
0.000	0.0060	0.0028	0.0020	0.0128	0.0040	0.0006	0.0194	0.911
0.000	0.0064	0.0022	0.0016	0.0062	0.0004	0.0002	0.0084	0.738
0.000	0.0054	0.0024	0.0028	0.0109	0.0028	0.0014	0.0179	0.860

0.000	0.0036	0.0016	0.0020	0.0056	0.0004	0.0000	0.0080	1.038
0.000	0.0063	0.0030	0.0022	0.0093	0.0048	0.0020	0.0183	0.844
0.000	0.0058	0.0012	0.0014	0.0052	0.0006	0.0006	0.0078	0.771
0.000	0.0064	0.0018	0.0004	0.0046	0.0004	0.0000	0.0054	0.690
0.000	0.0054	0.0022	0.0022	0.0070	0.0026	0.0010	0.0128	0.836
0.000	0.0071	0.0038	0.0032	0.0148	0.0040	0.0004	0.0224	0.940
0.000	0.0020	0.0004	0.0022	0.0044	0.0008	0.0000	0.0074	0.959
0.000	0.0063	0.0028	0.0053	0.0160	0.0036	0.0016	0.0265	1.026
0.000	0.0065	0.0026	0.0057	0.0142	0.0053	0.0012	0.0264	1.000
0.000	0.0038	0.0012	0.0026	0.0071	0.0020	0.0000	0.0117	0.869
0.000	0.0061	0.0030	0.0055	0.0140	0.0059	0.0000	0.0254	0.987
0.000	0.0038	0.0028	0.0006	0.0056	0.0024	0.0004	0.0090	0.842
0.000	0.0046	0.0014	0.0014	0.0048	0.0032	0.0014	0.0108	0.771
0.000	0.0042	0.0026	0.0024	0.0137	0.0050	0.0004	0.0215	1.172
0.000	0.0077	0.0030	0.0063	0.0178	0.0069	0.0012	0.0322	1.143
0.000	0.0046	0.0020	0.0028	0.0070	0.0040	0.0002	0.0140	0.847
0.000	0.0079	0.0033	0.0055	0.0171	0.0073	0.0000	0.0299	1.217
0.000	0.0050	0.0020	0.0036	0.0123	0.0046	0.0000	0.0205	0.974
0.000	0.0040	0.0022	0.0014	0.0076	0.0038	0.0000	0.0128	0.753
0.000	0.0050	0.0026	0.0024	0.0056	0.0024	0.0008	0.0112	0.891
0.000	0.0050	0.0020	0.0016	0.0080	0.0026	0.0000	0.0122	0.806
0.000	0.0050	0.0018	0.0004	0.0066	0.0028	0.0000	0.0098	0.781
0.000	0.0032	0.0028	0.0032	0.0109	0.0032	0.0000	0.0173	1.037
0.000	0.0073	0.0039	0.0024	0.0198	0.0051	0.0008	0.0281	1.238
0.000	0.0024	0.0020	0.0028	0.0118	0.0040	0.0000	0.0186	1.167
0.000	0.0038	0.0014	0.0000	0.0052	0.0022	0.0000	0.0074	0.743
0.000	0.0036	0.0022	0.0028	0.0126	0.0024	0.0010	0.0188	1.123
0.000	0.0028	0.0012	0.0034	0.0050	0.0024	0.0002	0.0110	0.876
0.000	0.0100	0.0049	0.0000	0.0205	0.0078	0.0016	0.0299	1.231
0.000	0.0067	0.0014	0.0020	0.0042	0.0028	0.0004	0.0094	0.885
0.000	0.0067	0.0022	0.0014	0.0034	0.0018	0.0000	0.0066	0.844
0.000	0.0076	0.0049	0.0055	0.0215	0.0105	0.0000	0.0375	1.110
0.000	0.0043	0.0039	0.0036	0.0154	0.0067	0.0016	0.0273	0.932
0.000	0.0070	0.0028	0.0014	0.0080	0.0020	0.0000	0.0114	0.818
0.000	0.0032	0.0000	0.0014	0.0046	0.0008	0.0000	0.0068	0.880
0.000	0.0068	0.0022	0.0010	0.0072	0.0020	0.0010	0.0112	0.792
0.000	0.0052	0.0022	0.0022	0.0094	0.0044	0.0006	0.0166	0.877
0.000	0.0051	0.0053	0.0037	0.0174	0.0092	0.0012	0.0315	0.947
0.000	0.0038	0.0028	0.0030	0.0149	0.0059	0.0018	0.0256	0.874
0.000	0.0046	0.0032	0.0028	0.0113	0.0046	0.0010	0.0197	0.946
0.000	0.0038	0.0012	0.0028	0.0046	0.0028	0.0006	0.0108	0.874
0.000	0.0054	0.0020	0.0008	0.0034	0.0018	0.0010	0.0070	0.731
0.000	0.0038	0.0040	0.0038	0.0140	0.0087	0.0006	0.0271	0.900
0.000	0.0044	0.0010	0.0026	0.0106	0.0020	0.0000	0.0152	0.731
0.000	0.0056	0.0038	0.0028	0.0125	0.0066	0.0006	0.0225	0.868
0.000	0.0032	0.0006	0.0075	0.0163	0.0056	0.0018	0.0312	0.792
0.000	0.0028	0.0008	0.0024	0.0111	0.0020	0.0004	0.0159	0.810
0.000	0.0062	0.0014	0.0000	0.0026	0.0000	0.0000	0.0026	0.659

0.000	0.0053	0.0045	0.0045	0.0122	0.0055	0.0008	0.0230	0.964
0.000	0.0050	0.0038	0.0058	0.0145	0.0083	0.0014	0.0300	1.008
0.000	0.0044	0.0004	0.0020	0.0057	0.0022	0.0000	0.0099	1.145
0.000	0.0024	0.0012	0.0050	0.0164	0.0053	0.0006	0.0273	0.901
0.000	0.0028	0.0014	0.0056	0.0165	0.0066	0.0002	0.0289	0.856
0.000	0.0036	0.0042	0.0049	0.0144	0.0071	0.0014	0.0278	0.984
0.000	0.0033	0.0047	0.0022	0.0140	0.0081	0.0024	0.0267	0.921
0.000	0.0028	0.0020	0.0040	0.0086	0.0016	0.0004	0.0146	0.968
0.000	0.0042	0.0010	0.0022	0.0114	0.0054	0.0012	0.0202	0.853
0.000	0.0022	0.0012	0.0028	0.0086	0.0026	0.0014	0.0154	0.875
0.000	0.0042	0.0030	0.0044	0.0106	0.0054	0.0002	0.0206	0.949
0.000	0.0042	0.0026	0.0020	0.0084	0.0034	0.0006	0.0144	0.777
0.000	0.0056	0.0026	0.0002	0.0098	0.0046	0.0008	0.0154	0.743
0.000	0.0040	0.0012	0.0028	0.0082	0.0062	0.0000	0.0172	0.783
0.000	0.0074	0.0043	0.0043	0.0166	0.0070	0.0018	0.0297	1.035
0.000	0.0057	0.0037	0.0057	0.0159	0.0055	0.0006	0.0277	0.833
0.000	0.0040	0.0006	0.0018	0.0070	0.0036	0.0002	0.0126	0.754
0.000	0.0022	0.0018	0.0016	0.0089	0.0056	0.0012	0.0173	0.863
0.000	0.0030	0.0000	0.0022	0.0050	0.0016	0.0000	0.0088	0.949
0.000	0.0085	0.0026	0.0028	0.0065	0.0016	0.0008	0.0117	0.748
0.000	0.0041	0.0037	0.0043	0.0112	0.0073	0.0012	0.0240	0.773
0.000	0.0061	0.0032	0.0034	0.0142	0.0069	0.0010	0.0255	1.050
0.000	0.0076	0.0043	0.0050	0.0198	0.0126	0.0008	0.0382	1.000
0.000	0.0071	0.0032	0.0024	0.0105	0.0075	0.0008	0.0212	0.819
0.000	0.0062	0.0028	0.0024	0.0084	0.0068	0.0010	0.0186	0.855
0.000	0.0063	0.0024	0.0018	0.0079	0.0045	0.0014	0.0156	0.792
0.000	0.0072	0.0020	0.0020	0.0070	0.0058	0.0010	0.0158	0.798
0.000	0.0052	0.0036	0.0046	0.0159	0.0066	0.0010	0.0281	0.882
0.000	0.0057	0.0041	0.0041	0.0161	0.0073	0.0010	0.0285	0.926
0.000	0.0068	0.0032	0.0008	0.0082	0.0026	0.0016	0.0132	0.837
0.000	0.0072	0.0026	0.0000	0.0082	0.0054	0.0000	0.0136	0.731
0.000	0.0062	0.0022	0.0016	0.0086	0.0060	0.0004	0.0166	0.840
0.000	0.0060	0.0026	0.0024	0.0056	0.0026	0.0012	0.0118	0.772
0.000	0.0043	0.0022	0.0008	0.0004	0.0006	0.0000	0.0018	0.373
0.000	0.0054	0.0026	0.0000	0.0032	0.0046	0.0024	0.0102	0.636
0.000	0.0066	0.0024	0.0028	0.0070	0.0024	0.0008	0.0130	0.664
0.000	0.0062	0.0026	0.0010	0.0066	0.0028	0.0008	0.0112	0.758
0.000	0.0047	0.0030	0.0020	0.0101	0.0065	0.0004	0.0190	0.808
0.000	0.0054	0.0002	0.0016	0.0032	0.0006	0.0002	0.0056	0.888
0.000	0.0059	0.0032	0.0014	0.0101	0.0061	0.0010	0.0186	0.911
0.000	0.0053	0.0036	0.0038	0.0111	0.0055	0.0014	0.0218	0.848
0.000	0.0042	0.0026	0.0012	0.0078	0.0030	0.0006	0.0126	0.711
0.000	0.0026	0.0006	0.0014	0.0062	0.0006	0.0000	0.0082	0.961
0.000	0.0040	0.0008	0.0004	0.0068	0.0032	0.0000	0.0104	0.842
0.000	0.0050	0.0038	0.0042	0.0116	0.0038	0.0004	0.0200	0.876
0.000	0.0054	0.0024	0.0012	0.0060	0.0032	0.0000	0.0104	0.646
0.000	0.0036	0.0006	0.0028	0.0062	0.0002	0.0000	0.0092	0.858
0.000	0.0036	0.0038	0.0044	0.0127	0.0071	0.0016	0.0258	0.855

0.000	0.0040	0.0002	0.0014	0.0096	0.0022	0.0006	0.0138	0.778
0.000	0.0057	0.0032	0.0016	0.0123	0.0055	0.0010	0.0204	0.889
0.000	0.0036	0.0004	0.0022	0.0070	0.0014	0.0000	0.0106	0.860
0.000	0.0028	0.0018	0.0016	0.0054	0.0024	0.0000	0.0094	0.779
0.000	0.0043	0.0030	0.0028	0.0091	0.0041	0.0002	0.0162	0.797
0.000	0.0066	0.0020	0.0072	0.0150	0.0032	0.0008	0.0262	0.941
0.000	0.0044	0.0018	0.0016	0.0090	0.0022	0.0008	0.0136	1.020
0.000	0.0016	0.0018	0.0032	0.0089	0.0044	0.0002	0.0167	0.923
0.000	0.0018	0.0038	0.0012	0.0048	0.0051	0.0016	0.0127	0.880
0.000	0.0043	0.0030	0.0043	0.0081	0.0026	0.0008	0.0158	1.124
0.000	0.0045	0.0018	0.0055	0.0132	0.0022	0.0004	0.0213	0.947
0.000	0.0022	0.0012	0.0036	0.0087	0.0030	0.0000	0.0153	0.790
0.000	0.0038	0.0020	0.0008	0.0071	0.0016	0.0000	0.0095	0.942
0.000	0.0030	0.0018	0.0040	0.0113	0.0032	0.0000	0.0185	0.867
0.000	0.0008	0.0006	0.0018	0.0079	0.0020	0.0000	0.0117	0.977
0.000	0.0006	0.0020	0.0049	0.0099	0.0010	0.0000	0.0158	0.956
0.000	0.0042	0.0040	0.0058	0.0144	0.0050	0.0008	0.0260	1.062
0.000	0.0069	0.0052	0.0101	0.0234	0.0077	0.0016	0.0428	0.816
0.000	0.0022	0.0016	0.0055	0.0095	0.0028	0.0000	0.0178	0.924
0.000	0.0022	0.0020	0.0043	0.0105	0.0000	0.0000	0.0148	0.898
0.000	0.0018	0.0032	0.0042	0.0136	0.0044	0.0012	0.0234	1.003
0.000	0.0028	0.0066	0.0038	0.0151	0.0085	0.0016	0.0290	1.092
0.000	0.0004	0.0014	0.0008	0.0045	0.0020	0.0004	0.0077	0.834
0.000	0.0045	0.0030	0.0038	0.0093	0.0012	0.0000	0.0143	0.960
0.000	0.0022	0.0006	0.0023	0.0066	0.0012	0.0000	0.0101	0.899
0.000	0.0028	0.0026	0.0020	0.0083	0.0035	0.0000	0.0138	0.940
0.000	0.0060	0.0030	0.0050	0.0221	0.0032	0.0004	0.0307	0.912
0.000	0.0054	0.0024	0.0048	0.0169	0.0046	0.0000	0.0263	0.965
0.000	0.0042	0.0028	0.0022	0.0093	0.0042	0.0008	0.0165	0.968
0.000	0.0018	0.0022	0.0032	0.0089	0.0012	0.0004	0.0137	0.958
0.000	0.0060	0.0046	0.0078	0.0247	0.0086	0.0010	0.0421	1.021
0.000	0.0020	0.0024	0.0042	0.0079	0.0028	0.0008	0.0157	0.856
0.000	0.0024	0.0030	0.0032	0.0103	0.0036	0.0000	0.0171	1.033
0.000	0.0028	0.0060	0.0034	0.0152	0.0062	0.0018	0.0266	1.068
0.000	0.0030	0.0014	0.0016	0.0083	0.0002	0.0000	0.0101	0.811
0.000	0.0016	0.0022	0.0026	0.0073	0.0024	0.0010	0.0133	0.992
0.000	0.0018	0.0020	0.0046	0.0105	0.0028	0.0006	0.0185	1.050
0.000	0.0050	0.0024	0.0092	0.0240	0.0052	0.0008	0.0392	0.776
0.000	0.0036	0.0044	0.0050	0.0140	0.0054	0.0000	0.0244	0.982
0.000	0.0026	0.0012	0.0018	0.0073	0.0010	0.0008	0.0109	0.945
0.000	0.0051	0.0025	0.0051	0.0109	0.0029	0.0000	0.0189	0.980
0.000	0.0043	0.0018	0.0043	0.0121	0.0026	0.0000	0.0190	1.066
0.000	0.0050	0.0036	0.0046	0.0101	0.0036	0.0006	0.0189	0.944
0.000	0.0020	0.0018	0.0014	0.0083	0.0012	0.0008	0.0117	0.869
0.000	0.0076	0.0037	0.0096	0.0249	0.0053	0.0004	0.0402	0.849
0.000	0.0000	0.0018	0.0038	0.0098	0.0022	0.0006	0.0164	0.952
0.000	0.0020	0.0006	0.0038	0.0118	0.0040	0.0000	0.0196	0.855
0.000	0.0044	0.0022	0.0064	0.0139	0.0036	0.0006	0.0245	0.963

0.000	0.0020	0.0016	0.0034	0.0078	0.0002	0.0012	0.0126	0.898
0.000	0.0040	0.0034	0.0026	0.0096	0.0026	0.0000	0.0148	0.913
0.000	0.0068	0.0024	0.0014	0.0097	0.0026	0.0004	0.0141	0.838
0.000	0.0056	0.0024	0.0026	0.0080	0.0022	0.0000	0.0128	0.968
0.000	0.0018	0.0012	0.0061	0.0099	0.0047	0.0004	0.0211	1.062
0.000	0.0022	0.0022	0.0040	0.0132	0.0040	0.0012	0.0224	0.931
0.000	0.0026	0.0012	0.0036	0.0096	0.0020	0.0006	0.0158	0.955
0.000	0.0032	0.0026	0.0042	0.0128	0.0038	0.0000	0.0208	1.008
0.000	0.0049	0.0029	0.0067	0.0178	0.0029	0.0018	0.0292	0.798
0.000	0.0024	0.0024	0.0028	0.0091	0.0020	0.0002	0.0141	1.010
0.000	0.0050	0.0030	0.0030	0.0118	0.0042	0.0012	0.0202	1.005
0.000	0.0031	0.0026	0.0063	0.0145	0.0029	0.0000	0.0237	0.768
0.000	0.0024	0.0018	0.0034	0.0057	0.0008	0.0000	0.0099	1.028
0.000	0.0030	0.0012	0.0057	0.0093	0.0014	0.0000	0.0164	0.962
0.000	0.0030	0.0028	0.0044	0.0164	0.0040	0.0006	0.0254	0.935
0.000	0.0022	0.0008	0.0020	0.0036	0.0000	0.0000	0.0056	1.094
0.000	0.0024	0.0022	0.0052	0.0183	0.0022	0.0006	0.0263	1.035
0.000	0.0044	0.0030	0.0071	0.0192	0.0048	0.0014	0.0325	0.860
0.000	0.0028	0.0022	0.0030	0.0101	0.0020	0.0008	0.0159	0.976
0.000	0.0032	0.0024	0.0062	0.0147	0.0032	0.0002	0.0243	1.054
0.000	0.0043	0.0061	0.0059	0.0172	0.0075	0.0016	0.0322	0.930
0.000	0.0038	0.0034	0.0034	0.0126	0.0040	0.0012	0.0212	0.894
0.000	0.0036	0.0056	0.0034	0.0143	0.0060	0.0020	0.0257	1.089
0.000	0.0030	0.0020	0.0036	0.0100	0.0026	0.0000	0.0162	0.925
0.000	0.0042	0.0042	0.0018	0.0088	0.0040	0.0006	0.0152	0.810
0.000	0.0057	0.0079	0.0057	0.0189	0.0083	0.0010	0.0339	0.962
0.000	0.0071	0.0078	0.0061	0.0251	0.0104	0.0016	0.0432	1.028
0.000	0.0034	0.0028	0.0054	0.0130	0.0028	0.0002	0.0214	0.972
0.000	0.0061	0.0020	0.0026	0.0087	0.0012	0.0006	0.0131	0.838
0.000	0.0054	0.0018	0.0030	0.0114	0.0024	0.0000	0.0168	0.740
0.000	0.0030	0.0030	0.0030	0.0106	0.0026	0.0002	0.0164	0.898
0.000	0.0032	0.0012	0.0048	0.0129	0.0042	0.0002	0.0221	0.724
0.000	0.0082	0.0088	0.0061	0.0255	0.0086	0.0014	0.0416	0.960
0.000	0.0022	0.0020	0.0028	0.0120	0.0026	0.0012	0.0186	0.966
0.000	0.0040	0.0036	0.0048	0.0139	0.0036	0.0000	0.0223	0.984
0.000	0.0034	0.0065	0.0038	0.0186	0.0087	0.0026	0.0337	0.956
0.000	0.0024	0.0018	0.0036	0.0089	0.0012	0.0000	0.0137	0.925
0.000	0.0038	0.0002	0.0038	0.0077	0.0010	0.0002	0.0127	0.958
0.000	0.0062	0.0030	0.0026	0.0108	0.0036	0.0012	0.0182	0.976
0.000	0.0080	0.0028	0.0022	0.0089	0.0010	0.0000	0.0121	0.967
0.000	0.0088	0.0070	0.0070	0.0238	0.0097	0.0004	0.0409	1.024
0.000	0.0063	0.0047	0.0049	0.0219	0.0057	0.0008	0.0333	0.965
0.000	0.0050	0.0036	0.0034	0.0110	0.0036	0.0008	0.0188	0.961
0.000	0.0044	0.0018	0.0038	0.0068	0.0030	0.0006	0.0142	0.828
0.000	0.0044	0.0030	0.0030	0.0100	0.0032	0.0006	0.0168	1.015
0.000	0.0092	0.0057	0.0075	0.0230	0.0100	0.0020	0.0425	1.050
0.000	0.0090	0.0063	0.0076	0.0255	0.0082	0.0012	0.0425	1.119
0.000	0.0061	0.0050	0.0069	0.0192	0.0075	0.0000	0.0336	0.938

0.000	0.0030	0.0038	0.0050	0.0170	0.0038	0.0000	0.0258	1.000
0.000	0.0026	0.0020	0.0034	0.0109	0.0032	0.0000	0.0175	0.935
0.000	0.0020	0.0020	0.0028	0.0113	0.0024	0.0010	0.0175	0.884
0.000	0.0012	0.0026	0.0038	0.0101	0.0024	0.0006	0.0169	0.856
0.000	0.0040	0.0036	0.0036	0.0090	0.0046	0.0014	0.0186	0.910
0.000	0.0030	0.0018	0.0034	0.0124	0.0040	0.0000	0.0198	0.847
0.000	0.0028	0.0034	0.0048	0.0148	0.0038	0.0012	0.0246	1.043
0.000	0.0028	0.0016	0.0030	0.0096	0.0036	0.0000	0.0162	0.896
0.000	0.0026	0.0026	0.0030	0.0117	0.0042	0.0000	0.0189	0.919
0.000	0.0041	0.0053	0.0073	0.0199	0.0065	0.0008	0.0345	0.876
0.000	0.0044	0.0022	0.0040	0.0103	0.0032	0.0000	0.0175	0.779
0.000	0.0048	0.0000	0.0066	0.0137	0.0024	0.0004	0.0231	0.867
0.000	0.0044	0.0028	0.0014	0.0080	0.0020	0.0002	0.0116	0.893
0.000	0.0026	0.0022	0.0020	0.0073	0.0006	0.0008	0.0107	0.980
0.000	0.0024	0.0022	0.0028	0.0092	0.0020	0.0006	0.0146	0.908
0.000	0.0068	0.0022	0.0010	0.0064	0.0016	0.0004	0.0094	0.814
0.000	0.0078	0.0016	0.0028	0.0082	0.0026	0.0000	0.0136	0.838
0.000	0.0135	0.0010	0.0040	0.0117	0.0028	0.0004	0.0189	0.879
0.000	0.0054	0.0020	0.0024	0.0076	0.0008	0.0008	0.0116	0.955
0.000	0.0044	0.0018	0.0028	0.0086	0.0014	0.0018	0.0146	0.865
0.000	0.0053	0.0020	0.0024	0.0050	0.0016	0.0004	0.0094	0.988
0.000	0.0047	0.0024	0.0028	0.0071	0.0010	0.0006	0.0115	0.952
0.000	0.0030	0.0018	0.0028	0.0061	0.0014	0.0012	0.0115	0.865
0.000	0.0036	0.0050	0.0046	0.0165	0.0065	0.0012	0.0288	1.015
0.000	0.0022	0.0010	0.0026	0.0101	0.0016	0.0000	0.0143	0.823
0.000	0.0050	0.0044	0.0062	0.0179	0.0069	0.0000	0.0310	0.928
0.000	0.0022	0.0008	0.0028	0.0040	0.0018	0.0002	0.0088	1.132
0.000	0.0034	0.0018	0.0028	0.0053	0.0018	0.0000	0.0099	0.890
0.000	0.0000	0.0006	0.0000	0.0000	0.0002	0.0002	0.0004	0.899
0.000	0.0004	0.0000	0.0002	0.0002	0.0000	0.0000	0.0004	0.804
0.000	0.0065	0.0048	0.0010	0.0075	0.0028	0.0012	0.0125	0.915
0.000	0.0071	0.0044	0.0012	0.0050	0.0044	0.0000	0.0106	0.904
0.000	0.0059	0.0024	0.0042	0.0119	0.0028	0.0012	0.0201	1.074
0.000	0.0020	0.0014	0.0034	0.0068	0.0020	0.0004	0.0126	0.881
0.000	0.0018	0.0014	0.0038	0.0078	0.0008	0.0002	0.0126	0.879
0.000	0.0026	0.0014	0.0026	0.0059	0.0022	0.0000	0.0107	0.900
0.000	0.0020	0.0018	0.0030	0.0070	0.0010	0.0008	0.0118	0.963
0.000	0.0035	0.0026	0.0032	0.0095	0.0030	0.0006	0.0163	0.806
0.000	0.0028	0.0020	0.0052	0.0116	0.0034	0.0000	0.0202	0.881
0.000	0.0016	0.0012	0.0034	0.0074	0.0014	0.0012	0.0134	0.846
0.000	0.0028	0.0016	0.0016	0.0078	0.0012	0.0000	0.0106	0.771
0.000	0.0020	0.0018	0.0024	0.0046	0.0024	0.0004	0.0098	0.880
0.000	0.0046	0.0034	0.0034	0.0115	0.0052	0.0002	0.0203	0.860
0.000	0.0048	0.0040	0.0024	0.0099	0.0034	0.0000	0.0157	0.882
0.000	0.0036	0.0022	0.0065	0.0123	0.0018	0.0004	0.0210	0.996
0.000	0.0014	0.0012	0.0034	0.0059	0.0016	0.0006	0.0115	0.818
0.000	0.0034	0.0036	0.0004	0.0100	0.0038	0.0012	0.0154	0.869
0.000	0.0014	0.0018	0.0026	0.0084	0.0022	0.0008	0.0140	0.892

0.000	0.0026	0.0018	0.0032	0.0071	0.0018	0.0000	0.0121	0.982
0.000	0.0014	0.0022	0.0022	0.0089	0.0018	0.0010	0.0139	1.021
0.000	0.0047	0.0032	0.0041	0.0140	0.0047	0.0006	0.0234	1.022
0.000	0.0022	0.0016	0.0042	0.0098	0.0000	0.0014	0.0154	0.906
0.000	0.0028	0.0016	0.0014	0.0071	0.0012	0.0000	0.0097	0.870
0.000	0.0048	0.0022	0.0022	0.0082	0.0022	0.0010	0.0136	0.886
0.000	0.0020	0.0012	0.0024	0.0063	0.0016	0.0000	0.0103	0.912
0.000	0.0054	0.0024	0.0038	0.0105	0.0018	0.0004	0.0165	0.877
0.000	0.0012	0.0012	0.0020	0.0068	0.0016	0.0004	0.0108	0.940
0.000	0.0032	0.0034	0.0018	0.0088	0.0034	0.0000	0.0140	0.787
0.000	0.0018	0.0018	0.0038	0.0080	0.0006	0.0000	0.0124	0.910
0.000	0.0042	0.0022	0.0040	0.0116	0.0026	0.0004	0.0186	0.916
0.000	0.0046	0.0028	0.0032	0.0087	0.0026	0.0002	0.0147	0.921
0.000	0.0008	0.0004	0.0002	0.0038	0.0000	0.0000	0.0040	0.838
0.000	0.0038	0.0022	0.0028	0.0102	0.0038	0.0006	0.0174	0.966
0.000	0.0074	0.0056	0.0062	0.0227	0.0134	0.0010	0.0433	1.118
0.000	0.0120	0.0079	0.0066	0.0269	0.0130	0.0019	0.0484	1.066
0.000	0.0062	0.0030	0.0000	0.0086	0.0032	0.0000	0.0118	0.889
0.000	0.0046	0.0024	0.0012	0.0096	0.0064	0.0014	0.0186	0.746
0.000	0.0053	0.0041	0.0039	0.0174	0.0059	0.0016	0.0288	1.083
0.000	0.0060	0.0022	0.0038	0.0072	0.0032	0.0002	0.0144	0.813
0.000	0.0044	0.0022	0.0000	0.0097	0.0032	0.0006	0.0135	1.059
0.000	0.0052	0.0030	0.0022	0.0042	0.0036	0.0008	0.0108	0.721
0.000	0.0052	0.0022	0.0026	0.0100	0.0036	0.0014	0.0176	0.834
0.000	0.0036	0.0014	0.0020	0.0046	0.0026	0.0004	0.0096	0.764
0.000	0.0040	0.0012	0.0020	0.0092	0.0036	0.0004	0.0152	0.970
0.000	0.0050	0.0022	0.0038	0.0094	0.0022	0.0010	0.0164	1.118
0.000	0.0058	0.0012	0.0040	0.0081	0.0036	0.0000	0.0157	1.157
0.000	0.0071	0.0034	0.0045	0.0191	0.0034	0.0004	0.0274	1.008
0.000	0.0022	0.0004	0.0016	0.0060	0.0018	0.0002	0.0096	0.702
0.000	0.0032	0.0012	0.0036	0.0102	0.0024	0.0008	0.0170	1.129
0.000	0.0061	0.0020	0.0049	0.0181	0.0043	0.0000	0.0273	1.255
0.000	0.0026	0.0022	0.0030	0.0123	0.0028	0.0000	0.0181	1.091
0.000	0.0036	0.0010	0.0024	0.0088	0.0046	0.0000	0.0158	0.861
0.000	0.0028	0.0006	0.0024	0.0084	0.0014	0.0010	0.0132	0.946
0.000	0.0084	0.0027	0.0039	0.0192	0.0061	0.0000	0.0292	1.055
0.000	0.0048	0.0026	0.0020	0.0102	0.0022	0.0006	0.0150	0.900
0.000	0.0135	0.0060	0.0060	0.0236	0.0108	0.0019	0.0423	1.306
0.000	0.0020	0.0004	0.0028	0.0084	0.0026	0.0000	0.0138	1.109
0.000	0.0043	0.0010	0.0065	0.0171	0.0026	0.0000	0.0262	1.036
0.000	0.0066	0.0034	0.0022	0.0076	0.0046	0.0016	0.0160	0.758
0.000	0.0052	0.0010	0.0032	0.0072	0.0024	0.0030	0.0158	0.926
0.000	0.0028	0.0006	0.0022	0.0050	0.0000	0.0000	0.0072	1.032
0.000	0.0000	0.0070	0.0037	0.0264	0.0100	0.0018	0.0419	1.112
0.000	0.0049	0.0057	0.0051	0.0244	0.0116	0.0008	0.0419	0.978
0.000	0.0030	0.0006	0.0038	0.0072	0.0054	0.0002	0.0166	0.978
0.000	0.0060	0.0016	0.0004	0.0124	0.0042	0.0000	0.0170	1.111
0.000	0.0054	0.0020	0.0026	0.0092	0.0042	0.0006	0.0166	1.037

0.000	0.0038	0.0044	0.0040	0.0124	0.0054	0.0012	0.0230	0.855
0.000	0.0048	0.0036	0.0046	0.0110	0.0060	0.0012	0.0228	0.714
0.000	0.0050	0.0018	0.0042	0.0126	0.0028	0.0002	0.0198	1.039
0.000	0.0036	0.0030	0.0024	0.0054	0.0024	0.0016	0.0118	0.907
0.000	0.0074	0.0064	0.0072	0.0229	0.0103	0.0012	0.0416	1.892
0.000	0.0123	0.0080	0.0039	0.0266	0.0125	0.0043	0.0473	0.769
0.000	0.0073	0.0060	0.0050	0.0267	0.0181	0.0031	0.0529	1.060
0.000	0.0051	0.0043	0.0049	0.0159	0.0100	0.0000	0.0308	1.061
0.000	0.0061	0.0032	0.0008	0.0097	0.0051	0.0004	0.0160	0.914
0.000	0.0048	0.0028	0.0004	0.0044	0.0054	0.0004	0.0106	0.850
0.000	0.0026	0.0002	0.0010	0.0084	0.0002	0.0000	0.0096	1.191
0.000	0.0028	0.0000	0.0036	0.0086	0.0042	0.0000	0.0164	1.119
0.000	0.0054	0.0014	0.0006	0.0044	0.0040	0.0004	0.0094	1.435
0.000	0.0014	0.0012	0.0041	0.0091	0.0012	0.0000	0.0144	0.869
0.000	0.0067	0.0016	0.0044	0.0184	0.0026	0.0016	0.0270	1.007
0.000	0.0050	0.0034	0.0030	0.0155	0.0054	0.0008	0.0247	1.063
0.000	0.0050	0.0018	0.0034	0.0082	0.0032	0.0010	0.0158	0.850
0.000	0.0050	0.0014	0.0002	0.0062	0.0044	0.0000	0.0108	0.737
0.000	0.0047	0.0028	0.0031	0.0204	0.0057	0.0018	0.0310	0.918
0.000	0.0074	0.0031	0.0082	0.0180	0.0045	0.0004	0.0311	0.976
0.000	0.0055	0.0026	0.0020	0.0102	0.0030	0.0020	0.0172	1.007
0.000	0.0026	0.0020	0.0028	0.0072	0.0016	0.0000	0.0116	0.946
0.000	0.0038	0.0016	0.0050	0.0094	0.0038	0.0000	0.0182	1.107
0.000	0.0049	0.0022	0.0031	0.0116	0.0029	0.0000	0.0176	0.733
0.000	0.0054	0.0026	0.0020	0.0132	0.0044	0.0010	0.0206	0.883
0.000	0.0062	0.0022	0.0000	0.0052	0.0010	0.0006	0.0068	0.774
0.000	0.0026	0.0004	0.0000	0.0088	0.0030	0.0008	0.0126	1.018
0.000	0.0042	0.0018	0.0032	0.0092	0.0034	0.0002	0.0160	0.744
0.000	0.0024	0.0012	0.0026	0.0082	0.0020	0.0000	0.0128	1.020
0.000	0.0052	0.0028	0.0018	0.0058	0.0038	0.0022	0.0136	0.780
0.000	0.0060	0.0020	0.0018	0.0066	0.0022	0.0000	0.0106	0.774
0.000	0.0030	0.0026	0.0060	0.0157	0.0048	0.0000	0.0265	0.937
0.000	0.0022	0.0022	0.0038	0.0080	0.0030	0.0006	0.0154	0.827
0.000	0.0024	0.0014	0.0036	0.0096	0.0028	0.0004	0.0164	0.863
0.000	0.0038	0.0018	0.0016	0.0076	0.0030	0.0010	0.0132	0.930
0.000	0.0006	0.0000	0.0008	0.0020	0.0004	0.0000	0.0032	0.788
0.000	0.0048	0.0050	0.0030	0.0161	0.0075	0.0004	0.0270	1.053
0.000	0.0046	0.0014	0.0022	0.0088	0.0026	0.0008	0.0144	0.809
0.000	0.0041	0.0018	0.0043	0.0189	0.0059	0.0006	0.0297	0.922
0.000	0.0048	0.0022	0.0044	0.0118	0.0028	0.0002	0.0192	0.794
0.000	0.0036	0.0018	0.0004	0.0078	0.0014	0.0000	0.0096	0.826
0.000	0.0050	0.0028	0.0006	0.0075	0.0048	0.0008	0.0137	0.866
0.000	0.0048	0.0030	0.0036	0.0110	0.0058	0.0014	0.0218	0.919
0.000	0.0176	0.0016	0.0053	0.0117	0.0004	0.0000	0.0174	1.143
0.000	0.0080	0.0018	0.0014	0.0132	0.0024	0.0002	0.0172	0.962
0.000	0.0064	0.0016	0.0010	0.0052	0.0026	0.0008	0.0096	0.791
0.000	0.0065	0.0039	0.0022	0.0124	0.0041	0.0008	0.0195	0.956
0.000	0.0053	0.0042	0.0022	0.0133	0.0065	0.0008	0.0228	0.914

0.000	0.0061	0.0018	0.0047	0.0138	0.0043	0.0006	0.0234	0.836
0.000	0.0068	0.0040	0.0016	0.0064	0.0046	0.0002	0.0128	0.766
0.000	0.0028	0.0010	0.0012	0.0084	0.0032	0.0000	0.0128	1.000
0.000	0.0075	0.0093	0.0033	0.0195	0.0126	0.0015	0.0369	0.943
0.000	0.0138	0.0020	0.0033	0.0114	0.0030	0.0000	0.0177	1.125
0.000	0.0042	0.0012	0.0030	0.0085	0.0020	0.0000	0.0135	1.016
0.000	0.0004	0.0004	0.0000	0.0046	0.0012	0.0008	0.0066	0.860
0.000	0.0082	0.0016	0.0050	0.0129	0.0024	0.0008	0.0211	0.939
0.000	0.0010	0.0010	0.0018	0.0028	0.0020	0.0000	0.0066	0.938
0.000	0.0048	0.0034	0.0024	0.0125	0.0058	0.0016	0.0223	0.851
0.000	0.0061	0.0014	0.0008	0.0044	0.0022	0.0000	0.0074	0.737
0.000	0.0044	0.0014	0.0026	0.0072	0.0032	0.0010	0.0140	0.955
0.000	0.0052	0.0016	0.0024	0.0078	0.0020	0.0000	0.0122	1.028
0.000	0.0075	0.0049	0.0061	0.0200	0.0073	0.0020	0.0354	0.976
0.000	0.0090	0.0037	0.0047	0.0198	0.0063	0.0014	0.0322	0.987
0.000	0.0072	0.0038	0.0016	0.0074	0.0044	0.0012	0.0146	0.767
0.000	0.0090	0.0053	0.0063	0.0182	0.0088	0.0000	0.0333	1.004
0.000	0.0069	0.0039	0.0045	0.0202	0.0067	0.0002	0.0316	0.968
0.000	0.0078	0.0055	0.0033	0.0221	0.0086	0.0004	0.0344	0.996
0.000	0.0032	0.0030	0.0041	0.0148	0.0043	0.0014	0.0246	1.000
0.000	0.0060	0.0026	0.0006	0.0064	0.0040	0.0012	0.0122	0.769
0.000	0.0046	0.0016	0.0012	0.0111	0.0036	0.0012	0.0171	0.836
0.000	0.0059	0.0030	0.0020	0.0115	0.0061	0.0004	0.0200	0.912
0.000	0.0026	0.0010	0.0022	0.0080	0.0028	0.0004	0.0134	0.789
0.000	0.0064	0.0018	0.0032	0.0117	0.0050	0.0004	0.0203	0.991
0.000	0.0078	0.0024	0.0046	0.0144	0.0046	0.0018	0.0254	1.104
0.000	0.0599	0.0000	0.0088	0.0153	0.0014	0.0000	0.0255	1.523
0.000	0.0036	0.0006	0.0016	0.0048	0.0020	0.0002	0.0086	0.832
0.000	0.0024	0.0010	0.0032	0.0102	0.0026	0.0000	0.0160	1.154
0.000	0.0016	0.0000	0.0012	0.0064	0.0016	0.0004	0.0096	0.987
0.000	0.0018	0.0000	0.0020	0.0044	0.0002	0.0000	0.0066	0.996
0.000	0.0400	0.0004	0.0067	0.0178	0.0010	0.0004	0.0259	1.481
0.000	0.0034	0.0006	0.0050	0.0118	0.0000	0.0010	0.0178	0.874
0.000	0.0044	0.0012	0.0040	0.0074	0.0022	0.0006	0.0142	1.008
0.000	0.0024	0.0010	0.0028	0.0090	0.0036	0.0002	0.0156	0.887
0.000	0.0028	0.0024	0.0036	0.0122	0.0064	0.0014	0.0236	0.881
0.000	0.0048	0.0014	0.0028	0.0068	0.0028	0.0014	0.0138	0.936
0.000	0.0070	0.0032	0.0002	0.0066	0.0042	0.0018	0.0128	0.811
0.000	0.0064	0.0026	0.0034	0.0112	0.0040	0.0028	0.0214	0.976
0.000	0.0034	0.0018	0.0024	0.0103	0.0030	0.0006	0.0163	0.886
0.000	0.0040	0.0022	0.0018	0.0066	0.0028	0.0000	0.0112	0.812
0.000	0.0141	0.0041	0.0045	0.0176	0.0104	0.0014	0.0339	1.060
0.000	0.0024	0.0024	0.0024	0.0072	0.0038	0.0016	0.0150	1.073
0.000	0.0034	0.0012	0.0022	0.0096	0.0024	0.0002	0.0144	0.947
0.000	0.0046	0.0018	0.0024	0.0060	0.0036	0.0010	0.0130	0.698
0.000	0.0040	0.0024	0.0024	0.0127	0.0060	0.0002	0.0213	0.922
0.000	0.0128	0.0037	0.0041	0.0134	0.0061	0.0010	0.0246	1.135
0.000	0.0032	0.0016	0.0020	0.0078	0.0030	0.0008	0.0136	1.084

0.000	0.0080	0.0024	0.0000	0.0076	0.0024	0.0012	0.0112	1.067
0.000	0.0044	0.0020	0.0020	0.0099	0.0030	0.0010	0.0159	0.825
0.000	0.0036	0.0024	0.0030	0.0138	0.0059	0.0006	0.0233	0.856
0.000	0.0073	0.0031	0.0022	0.0124	0.0043	0.0002	0.0191	0.850
0.000	0.0060	0.0034	0.0006	0.0064	0.0040	0.0018	0.0128	0.686
0.000	0.0049	0.0043	0.0055	0.0126	0.0059	0.0008	0.0248	0.829
0.000	0.0059	0.0032	0.0037	0.0164	0.0045	0.0010	0.0256	0.880
0.000	0.0051	0.0020	0.0026	0.0140	0.0057	0.0008	0.0231	0.714
0.000	0.0059	0.0033	0.0022	0.0158	0.0067	0.0004	0.0251	0.805
0.000	0.0059	0.0036	0.0024	0.0111	0.0057	0.0002	0.0194	0.689
0.000	0.0049	0.0028	0.0047	0.0107	0.0053	0.0000	0.0207	0.854
0.000	0.0030	0.0032	0.0047	0.0148	0.0083	0.0000	0.0278	0.906
0.000	0.0045	0.0041	0.0024	0.0114	0.0043	0.0000	0.0181	0.883
0.000	0.0038	0.0028	0.0006	0.0099	0.0050	0.0004	0.0159	0.866
0.000	0.0052	0.0016	0.0050	0.0121	0.0042	0.0014	0.0227	0.887
0.000	0.0038	0.0030	0.0026	0.0123	0.0052	0.0008	0.0209	0.818
0.000	0.0052	0.0022	0.0022	0.0088	0.0026	0.0000	0.0136	0.864
0.000	0.0042	0.0030	0.0014	0.0097	0.0062	0.0006	0.0179	0.831
0.000	0.0042	0.0016	0.0006	0.0070	0.0016	0.0016	0.0108	0.725
0.000	0.0065	0.0026	0.0069	0.0163	0.0057	0.0000	0.0289	0.775
0.000	0.0004	0.0000	0.0002	0.0042	0.0016	0.0002	0.0062	1.000
0.000	0.0008	0.0006	0.0014	0.0026	0.0000	0.0004	0.0044	1.028
0.000	0.0089	0.0030	0.0053	0.0142	0.0049	0.0000	0.0244	0.931
0.000	0.0081	0.0042	0.0055	0.0194	0.0083	0.0008	0.0340	0.961
0.000	0.0052	0.0018	0.0016	0.0085	0.0020	0.0020	0.0141	0.833
0.000	0.0056	0.0030	0.0022	0.0138	0.0040	0.0004	0.0204	0.946
0.000	0.0004	0.0004	0.0004	0.0024	0.0008	0.0000	0.0036	0.530
0.000	0.0012	0.0002	0.0006	0.0020	0.0014	0.0002	0.0042	0.388
0.000	0.0042	0.0018	0.0014	0.0118	0.0034	0.0000	0.0166	0.850
0.000	0.0042	0.0008	0.0032	0.0064	0.0030	0.0006	0.0132	0.889
0.000	0.0068	0.0018	0.0012	0.0092	0.0042	0.0008	0.0154	0.829
0.000	0.0044	0.0026	0.0024	0.0135	0.0030	0.0004	0.0193	0.882
0.000	0.0040	0.0032	0.0046	0.0162	0.0061	0.0012	0.0281	0.867
0.000	0.0039	0.0022	0.0045	0.0140	0.0063	0.0002	0.0250	0.866
0.000	0.0062	0.0028	0.0022	0.0065	0.0038	0.0000	0.0125	0.749
0.000	0.0016	0.0000	0.0010	0.0062	0.0000	0.0000	0.0072	0.943
0.000	0.0056	0.0022	0.0022	0.0120	0.0036	0.0010	0.0188	0.924
0.000	0.0044	0.0020	0.0024	0.0100	0.0046	0.0008	0.0178	0.870
0.000	0.0070	0.0020	0.0027	0.0123	0.0059	0.0004	0.0213	1.251
0.000	0.0050	0.0022	0.0028	0.0094	0.0050	0.0006	0.0178	0.888
0.000	0.0105	0.0020	0.0047	0.0101	0.0020	0.0006	0.0174	0.928
0.000	0.0058	0.0024	0.0032	0.0109	0.0056	0.0008	0.0205	0.798
0.000	0.0004	0.0004	0.0026	0.0064	0.0014	0.0000	0.0104	1.058
0.000	0.0051	0.0038	0.0051	0.0216	0.0049	0.0008	0.0324	0.952
0.000	0.0048	0.0028	0.0020	0.0094	0.0032	0.0014	0.0160	0.861
0.000	0.0053	0.0038	0.0030	0.0132	0.0034	0.0000	0.0196	0.874
0.000	0.0058	0.0022	0.0008	0.0056	0.0028	0.0010	0.0102	0.770
0.000	0.0062	0.0022	0.0044	0.0127	0.0054	0.0012	0.0237	0.876

0.000	0.0038	0.0014	0.0028	0.0084	0.0046	0.0004	0.0162	0.886
0.000	0.0022	0.0002	0.0020	0.0040	0.0016	0.0002	0.0078	0.866
0.000	0.0012	0.0006	0.0002	0.0040	0.0016	0.0000	0.0058	0.899
0.000	0.0059	0.0022	0.0034	0.0093	0.0030	0.0000	0.0157	1.021
0.000	0.0034	0.0008	0.0030	0.0060	0.0016	0.0000	0.0106	1.005
0.000	0.0012	0.0000	0.0004	0.0036	0.0012	0.0000	0.0052	0.946
0.000	0.0018	0.0000	0.0014	0.0046	0.0010	0.0000	0.0070	0.977
0.000	0.0002	0.0000	0.0012	0.0056	0.0014	0.0000	0.0082	0.936
0.000	0.0042	0.0030	0.0042	0.0131	0.0069	0.0010	0.0252	1.086
0.000	0.0050	0.0024	0.0024	0.0074	0.0038	0.0014	0.0150	0.982
0.000	0.0034	0.0014	0.0038	0.0104	0.0034	0.0006	0.0182	1.010
0.000	0.0032	0.0034	0.0034	0.0117	0.0055	0.0006	0.0212	0.983
0.000	0.0016	0.0006	0.0000	0.0050	0.0006	0.0004	0.0060	1.000
0.000	0.0030	0.0032	0.0012	0.0078	0.0042	0.0002	0.0134	0.723
0.000	0.0056	0.0034	0.0032	0.0097	0.0054	0.0010	0.0193	0.926
0.000	0.0008	0.0000	0.0018	0.0050	0.0000	0.0004	0.0072	0.929
0.000	0.0061	0.0032	0.0040	0.0107	0.0050	0.0000	0.0197	1.035
0.000	0.0016	0.0000	0.0026	0.0064	0.0010	0.0000	0.0100	1.196
0.000	0.0020	0.0000	0.0000	0.0038	0.0016	0.0004	0.0058	0.833
0.000	0.0018	0.0000	0.0006	0.0034	0.0000	0.0000	0.0040	0.806
0.000	0.0067	0.0036	0.0026	0.0123	0.0059	0.0016	0.0224	0.886
0.000	0.0044	0.0026	0.0006	0.0064	0.0024	0.0000	0.0094	0.829
0.000	0.0020	0.0000	0.0014	0.0034	0.0010	0.0002	0.0060	0.863
0.000	0.0050	0.0030	0.0050	0.0133	0.0038	0.0006	0.0227	1.005
0.000	0.0035	0.0002	0.0032	0.0037	0.0004	0.0010	0.0083	0.868
0.000	0.0056	0.0016	0.0028	0.0056	0.0032	0.0000	0.0116	0.996
0.000	0.0046	0.0016	0.0048	0.0078	0.0020	0.0006	0.0152	1.087
0.000	0.0030	0.0000	0.0000	0.0012	0.0000	0.0010	0.0022	0.875
0.000	0.0038	0.0036	0.0020	0.0107	0.0042	0.0012	0.0181	0.935
0.000	0.0024	0.0004	0.0016	0.0049	0.0010	0.0000	0.0075	0.889
0.000	0.0044	0.0036	0.0022	0.0112	0.0050	0.0006	0.0190	0.875
0.000	0.0014	0.0018	0.0020	0.0090	0.0046	0.0000	0.0156	1.213
0.000	0.0052	0.0032	0.0028	0.0127	0.0056	0.0000	0.0211	0.937
0.000	0.0032	0.0022	0.0012	0.0064	0.0028	0.0000	0.0104	0.975
0.000	0.0048	0.0032	0.0034	0.0092	0.0042	0.0008	0.0176	0.929
0.000	0.0044	0.0018	0.0012	0.0048	0.0026	0.0000	0.0086	0.991
0.000	0.0044	0.0022	0.0028	0.0090	0.0006	0.0004	0.0128	1.000
0.000	0.0024	0.0012	0.0014	0.0068	0.0022	0.0002	0.0106	1.173
0.000	0.0036	0.0004	0.0004	0.0026	0.0006	0.0002	0.0038	0.761
0.000	0.0030	0.0010	0.0000	0.0026	0.0000	0.0000	0.0026	0.909
0.000	0.0085	0.0030	0.0044	0.0139	0.0063	0.0004	0.0250	1.041
0.000	0.0006	0.0000	0.0010	0.0032	0.0000	0.0000	0.0042	0.896
0.000	0.0028	0.0006	0.0020	0.0056	0.0022	0.0000	0.0098	0.905
0.000	0.0064	0.0024	0.0024	0.0096	0.0044	0.0012	0.0176	1.242
0.000	0.0022	0.0000	0.0020	0.0016	0.0002	0.0014	0.0052	0.863
0.000	0.0050	0.0016	0.0036	0.0100	0.0038	0.0016	0.0190	1.258
0.000	0.0046	0.0024	0.0022	0.0076	0.0024	0.0016	0.0138	1.340
0.000	0.0028	0.0022	0.0024	0.0096	0.0038	0.0000	0.0158	1.456

0.000	0.0034	0.0012	0.0014	0.0078	0.0028	0.0000	0.0120	1.228
0.000	0.0028	0.0000	0.0016	0.0028	0.0010	0.0000	0.0054	0.712
0.000	0.0014	0.0002	0.0002	0.0018	0.0000	0.0000	0.0020	0.832
0.000	0.0038	0.0026	0.0026	0.0088	0.0040	0.0000	0.0154	1.065
0.000	0.0029	0.0006	0.0010	0.0016	0.0010	0.0000	0.0036	1.236
0.000	0.0046	0.0008	0.0028	0.0056	0.0010	0.0002	0.0096	0.879
0.000	0.0066	0.0046	0.0020	0.0092	0.0060	0.0008	0.0180	0.912
0.000	0.0042	0.0028	0.0028	0.0123	0.0054	0.0006	0.0211	0.879
0.000	0.0079	0.0041	0.0049	0.0122	0.0053	0.0018	0.0242	0.848
0.000	0.0060	0.0040	0.0030	0.0105	0.0054	0.0000	0.0189	0.889
0.000	0.0036	0.0026	0.0020	0.0090	0.0032	0.0008	0.0150	0.927
0.000	0.0126	0.0047	0.0024	0.0142	0.0071	0.0000	0.0237	0.970
0.000	0.0052	0.0038	0.0028	0.0113	0.0046	0.0000	0.0187	0.864
0.000	0.0044	0.0012	0.0042	0.0123	0.0040	0.0008	0.0213	1.530
0.000	0.0075	0.0012	0.0057	0.0149	0.0030	0.0002	0.0238	0.992
0.000	0.0008	0.0004	0.0002	0.0020	0.0000	0.0006	0.0028	0.637
0.000	0.0062	0.0020	0.0038	0.0105	0.0042	0.0006	0.0191	1.262
0.000	0.0032	0.0012	0.0036	0.0084	0.0010	0.0012	0.0142	0.892
0.000	0.0028	0.0000	0.0030	0.0054	0.0016	0.0000	0.0100	0.920
0.000	0.0047	0.0024	0.0036	0.0152	0.0055	0.0004	0.0247	0.810
0.000	0.0035	0.0014	0.0028	0.0049	0.0000	0.0000	0.0077	1.038
0.000	0.0024	0.0018	0.0020	0.0071	0.0014	0.0002	0.0107	0.906
0.000	0.0046	0.0034	0.0028	0.0082	0.0040	0.0002	0.0152	0.884
0.000	0.0032	0.0012	0.0002	0.0065	0.0018	0.0006	0.0091	1.016
0.000	0.0056	0.0040	0.0052	0.0104	0.0044	0.0014	0.0214	0.898
0.000	0.0048	0.0032	0.0050	0.0123	0.0034	0.0014	0.0221	0.886
0.000	0.0040	0.0046	0.0034	0.0082	0.0064	0.0002	0.0182	0.873
0.000	0.0209	0.0018	0.0036	0.0140	0.0040	0.0002	0.0218	1.518
0.000	0.0036	0.0012	0.0030	0.0091	0.0032	0.0004	0.0157	1.077
0.000	0.0052	0.0048	0.0042	0.0136	0.0062	0.0008	0.0248	0.923
0.000	0.0056	0.0034	0.0040	0.0134	0.0056	0.0016	0.0246	1.066
0.000	0.0054	0.0042	0.0030	0.0128	0.0042	0.0006	0.0206	1.119
0.000	0.0032	0.0006	0.0024	0.0085	0.0008	0.0002	0.0119	1.264
0.000	0.0160	0.0030	0.0034	0.0160	0.0046	0.0002	0.0242	1.298
0.000	0.0202	0.0018	0.0069	0.0206	0.0034	0.0000	0.0309	1.396
0.000	0.0044	0.0036	0.0042	0.0078	0.0050	0.0018	0.0188	0.887
0.000	0.0062	0.0040	0.0038	0.0126	0.0052	0.0010	0.0226	0.940
0.000	0.0044	0.0022	0.0052	0.0110	0.0054	0.0000	0.0216	0.937
0.000	0.0014	0.0000	0.0028	0.0061	0.0004	0.0000	0.0093	1.155
0.000	0.0064	0.0030	0.0034	0.0092	0.0030	0.0012	0.0168	0.871
0.000	0.0044	0.0028	0.0046	0.0116	0.0052	0.0012	0.0226	0.895
0.000	0.0371	0.0016	0.0056	0.0162	0.0052	0.0000	0.0270	1.573
0.000	0.0064	0.0050	0.0046	0.0105	0.0071	0.0020	0.0242	0.886
0.000	0.0052	0.0034	0.0026	0.0091	0.0032	0.0012	0.0161	0.877
0.000	0.0048	0.0026	0.0048	0.0131	0.0022	0.0006	0.0207	0.954
0.000	0.0030	0.0016	0.0026	0.0114	0.0028	0.0010	0.0178	0.953
0.000	0.0052	0.0040	0.0036	0.0112	0.0062	0.0008	0.0218	0.875
0.000	0.0055	0.0030	0.0014	0.0057	0.0018	0.0000	0.0089	0.778

0.000	0.0022	0.0014	0.0022	0.0071	0.0016	0.0002	0.0111	0.828
0.000	0.0054	0.0040	0.0034	0.0115	0.0042	0.0004	0.0195	0.896
0.000	0.0054	0.0018	0.0014	0.0099	0.0030	0.0004	0.0147	1.242
0.000	0.0092	0.0024	0.0030	0.0108	0.0046	0.0000	0.0184	1.327

0.000	0.0076	0.0048	0.0014	0.0062	0.0050	0.0018	0.0144	0.721
0.001	0.0086	0.0046	0.0012	0.0070	0.0056	0.0016	0.0154	0.803
0.000	0.0066	0.0046	0.0008	0.0060	0.0058	0.0016	0.0142	0.745
0.000	0.0084	0.0046	0.0028	0.0064	0.0056	0.0014	0.0162	0.729
0.001	0.0094	0.0046	0.0008	0.0066	0.0060	0.0008	0.0142	0.758
0.000	0.0054	0.0044	0.0012	0.0048	0.0064	0.0016	0.0140	0.729
0.000	0.0042	0.0032	0.0016	0.0054	0.0044	0.0006	0.0120	0.793
0.000	0.0042	0.0030	0.0016	0.0044	0.0044	0.0012	0.0116	0.795
0.000	0.0030	0.0030	0.0012	0.0058	0.0034	0.0004	0.0108	0.768
0.000	0.0038	0.0038		0.0042	0.0046	0.0004	0.0092	0.785
0.000	0.0046	0.0038	0.0075	0.0040	0.0051	0.0018	0.0184	0.708
0.000	0.0059	0.0038	0.0016	0.0053	0.0048	0.0016	0.0133	0.705
0.001	0.0044	0.0038	0.0006	0.0046	0.0038	0.0016	0.0106	0.739
0.000	0.0055	0.0040	0.0004	0.0040	0.0038	0.0020	0.0102	0.677
0.000	0.0051	0.0034	0.0020	0.0061	0.0036	0.0014	0.0131	0.769
0.001	0.0062	0.0060	0.0006	0.0038	0.0052	0.0016	0.0112	0.700
0.000	0.0106	0.0046	0.0010	0.0064	0.0062	0.0012	0.0148	0.800
0.000	0.0106	0.0024	0.0006	0.0056	0.0046	0.0012	0.0120	0.813
0.001	0.0119	0.0020	0.0010	0.0062	0.0054	0.0010	0.0136	0.144
0.000	0.0134	0.0054	0.0012	0.0060	0.0060	0.0016	0.0148	0.813
0.001	0.0131	0.0042	0.0014	0.0060	0.0058	0.0016	0.0148	0.794
0.001	0.0198	0.0106	0.0008	0.0074	0.0084	0.0028	0.0194	0.819
0.001	0.0225	0.0121	0.0006	0.0068	0.0091	0.0026	0.0191	0.811
0.000	0.0179	0.0119	0.0002	0.0056	0.0084	0.0020	0.0162	0.817
0.000	0.0191	0.0145	0.0006	0.0066	0.0091	0.0034	0.0197	0.801
0.000	0.0139	0.0131	0.0006	0.0055	0.0073	0.0020	0.0154	0.768
0.000	0.0127	0.0151	0.0006	0.0050	0.0091	0.0028	0.0175	0.753
0.001	0.0046	0.0062	0.0010	0.0038	0.0030	0.0010	0.0088	0.671
0.001	0.0012	0.0020	0.0004	0.0012	0.0004		0.0020	0.479
0.001	0.0116	0.0260	0.0012	0.0073	0.0120	0.0057	0.0262	0.888
0.000	0.0076	0.0139	0.0002	0.0071	0.0153	0.0057	0.0283	0.922
0.002	0.0163	0.0290	0.0010	0.0068	0.0142	0.0070	0.0290	0.898
0.002	0.0255	0.0347	0.0014	0.0057	0.0084	0.0029	0.0184	0.929
0.000	0.0032	0.0046	0.0012	0.0060	0.0056	0.0012	0.0140	0.794
0.001	0.0056	0.0044	0.0006	0.0050	0.0054	0.0012	0.0122	0.765
0.000	0.0088	0.0044	0.0008	0.0068	0.0052	0.0014	0.0142	0.737
0.000	0.0068	0.0042	0.0012	0.0066	0.0054	0.0018	0.0150	0.733
0.001	0.0046	0.0034	0.0008	0.0058	0.0050	0.0012	0.0128	0.757
0.001	0.0052	0.0040	0.0010	0.0070	0.0056	0.0016	0.0152	0.761
0.001	0.0060	0.0040	0.0014	0.0068	0.0052	0.0018	0.0152	0.732
0.000	0.0054	0.0038	0.0014	0.0076	0.0054	0.0008	0.0152	0.774
0.001	0.0056	0.0042		0.0062	0.0018	0.0006	0.0086	0.750

0.002	0.0068	0.0044	0.0016	0.0038	0.0042	0.0012	0.0108	0.682
0.000	0.0050	0.0040	0.0008	0.0034	0.0042	0.0020	0.0104	0.673
0.000	0.0044	0.0040	0.0008	0.0052	0.0036	0.0008	0.0104	0.726
0.000	0.0056	0.0040	0.0012	0.0048	0.0044	0.0010	0.0114	0.677
0.000	0.0026	0.0042	0.0012	0.0060	0.0044	0.0008	0.0124	0.728
0.000	0.0040	0.0038	0.0008	0.0054	0.0046	0.0008	0.0116	0.786
0.001	0.0038	0.0034		0.0052	0.0044	0.0004	0.0100	0.686
0.001	0.0036	0.0034	0.0012	0.0048	0.0042	0.0008	0.0110	0.789
0.000	0.0040	0.0044	0.0004	0.0056	0.0034	0.0020	0.0114	0.753
0.001	0.0034	0.0032	0.0018	0.0046	0.0040	0.0012	0.0116	0.764
0.000	0.0034	0.0046	0.0016	0.0038	0.0042	0.0012	0.0108	0.754
0.000	0.0046	0.0044	0.0012	0.0050	0.0042	0.0018	0.0122	0.751
0.000	0.0028	0.0040	0.0006	0.0042	0.0038	0.0004	0.0090	0.727
0.000	0.0038	0.0034	0.0008	0.0050	0.0034	0.0010	0.0102	0.736
0.001	0.0042	0.0042	0.0012	0.0050	0.0056	0.0010	0.0128	0.742
0.000	0.0125	0.0046	0.0020	0.0086	0.0060	0.0008	0.0174	0.718
0.001	0.0056	0.0040	0.0014	0.0074	0.0064	0.0010	0.0162	0.715
0.002	0.0064	0.0038	0.0012	0.0070	0.0048		0.0130	0.717
0.000	0.0040	0.0030	0.0014	0.0046	0.0056	0.0004	0.0120	0.534
0.001	0.0056	0.0046	0.0016	0.0075	0.0060	0.0014	0.0165	0.417
0.000	0.0030	0.0032	0.0016	0.0048	0.0044	0.0008	0.0116	0.712
0.000	0.0042	0.0030	0.0006	0.0040	0.0040	0.0004	0.0090	0.756
0.000	0.0056	0.0040	0.0008	0.0044	0.0042	0.0014	0.0108	0.721
0.000	0.0050	0.0038	0.0014	0.0050	0.0046	0.0006	0.0116	0.670
0.000	0.0078	0.0034	0.0010	0.0107	0.0030	0.0008	0.0155	0.871
0.001	0.0058	0.0038	0.0008	0.0046	0.0032	0.0004	0.0090	0.890
0.000	0.0056	0.0038	0.0012	0.0050	0.0038	0.0014	0.0114	0.818
0.000	0.0054	0.0030	0.0010	0.0054	0.0038	0.0012	0.0114	0.737
0.000	0.0048	0.0034	0.0006	0.0040	0.0036	0.0010	0.0092	0.686
0.000	0.0051	0.0037	0.0006	0.0041	0.0039	0.0008	0.0094	0.674
0.000	0.0042	0.0038	0.0008	0.0034	0.0036	0.0012	0.0090	0.752
0.000	0.0049	0.0040	0.0004	0.0034	0.0030	0.0024	0.0092	0.690
0.000	0.0055	0.0034	0.0006	0.0038	0.0040	0.0016	0.0100	0.695
0.000	0.0046	0.0030	0.0012	0.0044	0.0040	0.0010	0.0106	0.742
0.000	0.0044	0.0038		0.0044	0.0036	0.0010	0.0090	0.647
0.000	0.0038	0.0038	0.0012	0.0050	0.0048	0.0008	0.0118	0.852
0.000	0.0050	0.0032	0.0004	0.0040	0.0038	0.0010	0.0092	0.760
0.001	0.0058	0.0044	0.0020	0.0086	0.0060	0.0020	0.0186	0.808
0.001	0.0080	0.0050	0.0006	0.0058	0.0054	0.0022	0.0140	0.735
0.000	0.0080	0.0032	0.0008	0.0068	0.0062	0.0014	0.0152	0.616
0.000	0.0087	0.0038	0.0008	0.0044	0.0046	0.0006	0.0104	0.590
0.000	0.0082	0.0048	0.0016	0.0056	0.0060	0.0012	0.0144	0.741
0.000	0.0036	0.0028	0.0010	0.0062	0.0040	0.0018	0.0130	0.787
0.000	0.0038	0.0036		0.0052	0.0042	0.0012	0.0106	0.784
0.000	0.0042	0.0036	0.0008	0.0048	0.0040	0.0010	0.0106	0.756
0.001	0.0084	0.0050	0.0018	0.0068	0.0064	0.0020	0.0170	0.696
0.000	0.0016	0.0002	0.0000	0.0000	0.0004	0.0002	0.0006	0.472

0.000	0.0161	0.0227	0.0000	0.0092	0.0106	0.0049	0.0247	0.944
0.000	0.0045	0.0031	0.0008	0.0037	0.0031	0.0014	0.0090	0.808
0.000	0.0153	0.0080	0.0012	0.0022	0.0062	0.0018	0.0114	0.848
0.000	0.0017	0.0000	0.0014	0.0002	0.0002	0.0000	0.0018	0.451
0.000	0.0012	0.0000	0.0002	0.0004	0.0010	0.0000	0.0016	0.395
0.000	0.0160	0.0252	0.0018	0.0055	0.0091	0.0034	0.0198	1.088
0.000	0.0164	0.0229	0.0014	0.0071	0.0079	0.0032	0.0196	1.056
0.000	0.0043	0.0031	0.0006	0.0049	0.0027	0.0000	0.0082	0.919
0.000	0.0044	0.0028	0.0012	0.0047	0.0034	0.0000	0.0093	0.938
0.000	0.0084	0.0120	0.0004	0.0064	0.0068	0.0034	0.0170	0.997
0.000	0.0012	0.0008	0.0012	0.0000	0.0010	0.0012	0.0034	0.646
0.000	0.0073	0.0037	0.0008	0.0039	0.0032	0.0010	0.0089	0.878
0.000	0.0051	0.0032	0.0012	0.0035	0.0034	0.0000	0.0081	0.735
0.000	0.0153	0.0206	0.0000	0.0049	0.0120	0.0035	0.0204	0.997
0.000	0.0091	0.0052	0.0024	0.0073	0.0036	0.0010	0.0143	0.765
0.000	0.0194	0.0260	0.0000	0.0080	0.0086	0.0037	0.0203	1.003
0.000	0.0162	0.0040	0.0022	0.0084	0.0038	0.0014	0.0158	0.764
0.000	0.0054	0.0040	0.0008	0.0056	0.0040	0.0010	0.0114	0.951
0.000	0.0071	0.0038	0.0000	0.0047	0.0043	0.0008	0.0098	0.763
0.000	0.0051	0.0034	0.0012	0.0036	0.0045	0.0004	0.0097	0.837
0.000	0.0040	0.0032	0.0000	0.0032	0.0034	0.0016	0.0082	0.776
0.000	0.0134	0.0211	0.0008	0.0075	0.0095	0.0030	0.0208	1.005
0.000	0.0004	0.0006	0.0000	0.0021	0.0006	0.0000	0.0027	0.516
0.000	0.0063	0.0044	0.0008	0.0042	0.0020	0.0022	0.0092	0.877
0.000	0.0124	0.0046	0.0032	0.0098	0.0054	0.0020	0.0204	0.789
0.000	0.0044	0.0042	0.0010	0.0046	0.0036	0.0018	0.0110	0.765
0.000	0.0134	0.0050	0.0020	0.0076	0.0054	0.0008	0.0158	0.750
0.000	0.0030	0.0026	0.0004	0.0034	0.0026	0.0008	0.0072	0.777
0.000	0.0051	0.0045	0.0008	0.0063	0.0043	0.0012	0.0126	0.658
0.000	0.0045	0.0045	0.0010	0.0053	0.0040	0.0014	0.0117	0.679
0.000	0.0126	0.0032	0.0010	0.0014	0.0008	0.0000	0.0032	0.449
0.000	0.0056	0.0028	0.0018	0.0056	0.0026	0.0000	0.0100	0.748
0.000	0.0034	0.0030	0.0012	0.0040	0.0034	0.0000	0.0086	0.758
0.000	0.0036	0.0038	0.0024	0.0097	0.0052	0.0004	0.0177	0.805
0.000	0.0608	0.0037	0.0010	0.0047	0.0053	0.0014	0.0124	0.934
0.000	0.0024	0.0024	0.0004	0.0054	0.0032	0.0008	0.0098	0.863
0.000	0.0080	0.0040	0.0026	0.0078	0.0050	0.0010	0.0164	0.833
0.000	0.0128	0.0050	0.0006	0.0098	0.0066	0.0008	0.0178	0.794
0.000	0.0032	0.0036	0.0014	0.0103	0.0048	0.0008	0.0173	0.791
0.000	0.0054	0.0036	0.0024	0.0054	0.0048	0.0012	0.0138	0.749
0.000	0.0065	0.0042	0.0002	0.0042	0.0036	0.0016	0.0096	0.706

Supplement Table C3. Electron Microprobe analyses of the Taylor sphene.

Average composition in wt% and standard deviation compared to the accepted composition

	F	Na2O	MgO	SiO2	Al2O3	CaO	TiO2	MnO
Accepted Values				30.83	1.36	28.82	37.80	
Mean	0.14	0.01	0.00	30.69	1.06	28.77	37.82	0.04
St Dev	0.02	0.01	0.00	0.29	0.10	0.27	0.23	0.04
Count (n)	66	66	66	66	66	66	66	66

Individual analyses in wt%.

Date	F	Na2O	MgO	SiO2	Al2O3	CaO	TiO2	MnO
6/26/18	0.09	0.00	0.00	30.71	1.06	28.65	37.58	0.06
6/7/17	0.11	0.01	0.01	30.97	1.05	28.44	37.63	0.00
6/7/17	0.13	0.00	0.00	30.72	1.09	28.42	37.93	0.03
6/6/17	0.11	0.01	0.01	30.97	1.05	28.44	37.63	0.00
6/7/17	0.13	0.02	0.00	30.78	1.08	28.72	37.96	0.04
6/14/18	0.11	0.01	0.01	30.38	1.07	28.68	37.86	0.04
7/3/17	0.13	0.00	0.00	30.47	1.03	28.95	38.12	0.03
6/14/28	0.11	0.00	0.00	30.43	1.00	28.93	38.01	0.04
12/7/18	0.15	0.00	0.00	30.79	1.11	28.20	37.83	0.04
7/2/18	0.13	0.00	0.00	30.84	1.05	28.79	38.40	0.02
6/14/18	0.10	0.00	0.00	30.92	1.03	28.58	37.98	0.05
3/20/20	0.15	0.00	0.00	30.79	1.11	28.20	37.83	0.04
3/20/20	0.13	0.00	0.00	30.84	1.05	28.79	38.40	0.02
7/16/19	0.14	0.01	0.00	30.44	1.06	28.58	38.03	0.04
7/17/19	0.15	0.00	0.00	30.59	1.06	28.75	37.77	0.03
7/18/19	0.15	0.00	0.00	30.89	1.07	28.58	37.59	0.04
7/19/19	0.11	0.00	0.00	30.43	1.05	28.99	37.76	0.04
2/22/21	0.18	0.02	0.00	30.59	1.10	29.35	37.82	0.04
2/20/21	0.14	0.00	0.00	30.60	1.06	29.16	38.06	0.05
7/11/19	0.15	0.01	0.00	30.85	1.13	28.78	38.06	0.05
7/11/19	0.16	0.01	0.00	30.58	1.10	28.68	37.97	0.05
8/1/19	0.11	0.00	0.00	30.50	1.13	29.38	37.81	0.04
7/25/19	0.17	0.01	0.00	30.69	1.06	28.84	38.03	0.04
9/19/19	0.12	0.01	0.00	30.48	1.10	29.06	37.87	0.05
8/7/19	0.12	0.01	0.00	30.48	1.10	29.06	37.87	0.05
7/11/19	0.17	0.00	0.00	29.38	1.10	28.78	38.12	0.04
2/2/21	0.16	0.00	0.00	30.96	1.04	29.05	37.76	0.01
6/29/17	0.11	0.00	0.01	31.03	1.06	28.67	37.71	0.00
12/7/18	0.11	0.01	0.01	30.57	1.03	28.79	37.55	0.01
5/25/17	0.09	0.00	0.01	30.72	1.03	28.66	38.25	0.04
6/2/17	0.15	0.01	0.00	30.83	1.03	28.67	37.82	0.06
6/5/17	0.13	0.00	0.00	30.63	1.06	28.56	37.97	0.03
6/29/17	0.14	0.00	0.00	30.70	1.03	28.51	37.64	0.05
7/16/19	0.16	0.00	0.00	30.36	1.03	28.72	37.73	0.02
7/16/19	0.13	0.00	0.00	30.54	1.08	28.71	37.64	0.05
7/16/19	0.13	0.00	0.00	31.21	1.11	28.59	37.68	0.03
7/17/19	0.12	0.01	0.00	30.33	1.08	28.47	37.58	0.04

7/18/19	0.12	0.00	0.00	30.74	1.12	28.46	37.76	0.04
4/15/20	0.15	0.01	0.00	30.98	1.11	28.76	38.14	0.05
7/16/19	0.14	0.00	0.00	30.86	1.05	28.57	38.15	0.03
7/16/19	0.15	0.01	0.00	30.84	1.09	28.39	37.56	0.03
7/14/20	0.13	0.01	0.00	30.39	1.11	28.68	37.97	0.04
7/14/20	0.13	0.01	0.00	31.25	1.11	28.76	37.86	0.04
7/16/19	0.14	0.01	0.00	30.81	1.04	28.69	37.67	0.03
7/16/19	0.15	0.00	0.00	30.73	1.05	28.63	37.68	0.03
7/16/19	0.13	0.01	0.00	30.65	1.07	28.63	37.37	0.04
7/16/19	0.09	0.01	0.00	30.82	1.08	28.77	37.67	0.03
7/16/19	0.14	0.01	0.00	30.74	1.05	28.70	37.41	0.04
7/16/19	0.13	0.01	0.00	30.65	1.07	28.63	37.37	0.04
7/16/19	0.09	0.01	0.00	30.82	1.08	28.77	37.67	0.03
7/16/19	0.14	0.01	0.00	30.74	1.05	28.70	37.41	0.04
7/16/19	0.15	0.02	0.00	29.79	1.04	29.15	38.34	0.05
7/16/19	0.16	0.01	0.00	30.57	1.09	28.54	37.66	0.04
7/16/19	0.10	0.00	0.00	30.59	0.53	28.67	37.65	0.04
7/16/19	0.14	0.01	0.00	30.70	0.50	28.90	37.69	0.07
7/16/19	0.16	0.00	0.00	30.89	1.10	28.65	37.68	0.23
7/16/19	0.16	0.01	0.00	30.57	1.09	28.54	37.66	0.04
7/16/19	0.16	0.00	0.00	30.89	1.10	28.65	37.68	0.23
7/16/19	0.14	0.00	0.00	30.81	1.11	28.85	37.66	0.04
7/8/20	0.16	0.00	0.00	30.77	1.10	29.31	37.82	0.01
7/8/20	0.13	0.00	0.00	30.91	1.08	29.29	37.81	0.02
6/16/20	0.11	0.00	0.00	31.23	1.10	29.32	37.95	0.04
6/16/20	0.17	0.02	0.00	30.79	1.11	29.08	37.87	0.00
6/24/20	0.18	0.02	0.00	30.38	1.05	28.99	37.94	0.01
6/24/20	0.17	0.01	0.00	30.70	1.06	28.96	37.86	0.00
10/14/20	0.19	0.02	0.00	31.25	1.06	29.50	37.85	0.00

FeO	Y2O3	ZrO2	Nb2O3	La2O3	Ce2O3	Nd2O3	Sm2O3	Ta2O5
0.59								
0.60	0.01	0.01	0.03	0.02	0.02	0.02	0.03	0.04
0.05	0.01	0.01	0.02	0.03	0.03	0.02	0.04	0.06
66	66	66	49	66	66	66	66	15

FeO	Y2O3	ZrO2	Nb2O3	La2O3	Ce2O3	Nd2O3	Sm2O3	Ta2O5
0.59	0.01	0.00	0.01	0.00	0.03	0.07	0.00	0.00
0.59	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.12
0.58	0.00	0.00	0.00	0.03	0.01	0.00	0.02	0.02
0.59	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.12
0.57	0.00	0.00	0.02	0.00	0.03	0.01	0.00	0.04
0.55	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
0.60	0.02	0.00	0.06	0.00	0.01	0.06	0.05	0.21
0.56	0.00	0.03	0.03	0.00	0.03	0.00	0.07	0.00
0.64	0.00	0.00		0.00	0.04	0.00	0.00	
0.69	0.00	0.00		0.00	0.00	0.05	0.06	
0.53	0.00	0.00	0.01	0.00	0.00	0.04	0.02	0.06
0.64	0.00	0.00		0.00	0.04	0.00	0.00	
0.69	0.00	0.00		0.00	0.00	0.05	0.06	
0.58	0.00	0.00		0.00	0.00	0.10	0.03	
0.69	0.00	0.00		0.00	0.00	0.00	0.00	
0.71	0.02	0.00		0.00	0.08	0.02	0.03	
0.63	0.00	0.00		0.00	0.00	0.04	0.00	
0.62	0.04	0.00	0.00	0.00	0.01	0.05	0.12	
0.65	0.00	0.02		0.01	0.00	0.01	0.02	
0.55	0.00	0.00	0.02	0.01	0.04	0.00	0.03	
0.57	0.02	0.01	0.02	0.00	0.00	0.00	0.05	
0.63	0.00	0.07	0.05	0.01	0.05	0.00	0.00	
0.56	0.01	0.02	0.02	0.00	0.00	0.01	0.00	
0.64	0.00	0.02	0.07	0.00	0.00	0.01	0.02	
0.64	0.00	0.02	0.07	0.00	0.00	0.01	0.02	
0.57	0.00	0.00	0.00	0.06	0.00	0.00	0.00	
0.68	0.01	0.00	0.00	0.05	0.01	0.00	0.10	
0.58	0.01	0.00	0.03	0.02	0.07	0.05	0.02	0.00
0.52	0.00	0.02	0.03	0.01	0.01	0.08	0.02	0.01
0.54	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.04
0.56	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00
0.55	0.00	0.00	0.05	0.02	0.00	0.01	0.01	0.00
0.56	0.00	0.03	0.04	0.04	0.02	0.01	0.00	0.00
0.63	0.00	0.00	0.01	0.00	0.00	0.03	0.08	
0.56	0.00	0.00	0.00	0.07	0.12	0.00	0.00	
0.61	0.00	0.02	0.03	0.08	0.00	0.07	0.05	
0.58	0.00	0.00	0.03	0.00	0.02	0.00	0.13	

0.61	0.00	0.01	0.03	0.05	0.03	0.01	0.00
0.53	0.02	0.00	0.03	0.00	0.00	0.00	0.11
0.59	0.01	0.00	0.04	0.02	0.03	0.04	0.01
0.61	0.00	0.00	0.00	0.00	0.00	0.05	0.00
0.61	0.03	0.00	0.00	0.00	0.00	0.01	0.03
0.62	0.00	0.00	0.02	0.02	0.02	0.00	0.00
0.62	0.00	0.00	0.03	0.00	0.01	0.00	0.00
0.62	0.00	0.00	0.01	0.02	0.01	0.04	0.01
0.67	0.00	0.00	0.03	0.03	0.03	0.00	0.00
0.54	0.03	0.00	0.03	0.00	0.00	0.00	0.02
0.59	0.00	0.00	0.04	0.00	0.00	0.00	0.07
0.67	0.00	0.00	0.03	0.03	0.03	0.00	0.00
0.54	0.03	0.00	0.03	0.00	0.00	0.00	0.02
0.59	0.00	0.00	0.04	0.00	0.00	0.00	0.07
0.59	0.00	0.00		0.09	0.09	0.00	0.00
0.66	0.00	0.00		0.04	0.00	0.00	0.00
0.55	0.02	0.00		0.00	0.09	0.01	0.06
0.59	0.00	0.00		0.00	0.00	0.00	0.00
0.63	0.00	0.00		0.00	0.14	0.01	0.08
0.66	0.00	0.00		0.04	0.00	0.00	0.00
0.63	0.00	0.00		0.00	0.14	0.01	0.08
0.62	0.00	0.00		0.00	0.00	0.00	0.02
0.57	0.00	0.00	0.03	0.00	0.00	0.01	0.00
0.56	0.00	0.01	0.04	0.13	0.00	0.04	0.02
0.56	0.00	0.05	0.03	0.00	0.00	0.03	0.04
0.57	0.02	0.00	0.04	0.00	0.03	0.03	0.02
0.50	0.00	0.02	0.04	0.00	0.00	0.03	0.03
0.58	0.00	0.02	0.02	0.11	0.06	0.00	0.00
0.61	0.02	0.00	0.04	0.15	0.06	0.00	0.18

Total

99.22

0.52

66

Total

98.85

98.95

98.98

98.95

99.38

98.72

99.74

99.23

98.80

99.98

99.33

98.73

99.98

99.01

99.04

99.17

99.06

99.92

99.74

99.61

99.15

99.78

99.39

99.39

99.32

97.97

99.83

99.37

98.77

99.40

99.19

99.02

98.78

98.70

98.90

99.63

98.41

98.97
99.88
99.41
98.73
99.00
99.83
99.05
98.96
98.65
99.09
98.79
98.65
99.09
98.79
99.31
98.76
98.31
98.58
99.58
98.76
99.58
99.25
99.77
100.03
100.44
99.76
99.19
99.53
100.91

SupplementaTable C4. Replicate analyses of UW-1 Quartz Standard

	$\delta^{18}\text{O}$ ‰	¹⁶ O 2SE (int.)	(Gcps)	IP (nA)	Yield (Gcps/nA)
Mean	4.83	0.31	3.06	1.93	1.58
St Dev	0.19	0.03	0.09	0.06	0.02
Maxiumum	5.31				
Minimum	4.41				
Count (n)	112				
1	4.58	0.34	3.14	1.96	1.60
2	4.56	0.35	3.14	1.96	1.60
3	4.41	0.30	3.10	1.96	1.58
4	4.48	0.30	3.12	1.96	1.60
5	4.78	0.33	3.36	2.18	1.54
6	4.78	0.31	3.30	2.13	1.55
7	4.77	0.31	3.12	2.00	1.56
8	4.73	0.32	3.03	1.96	1.55
9	4.59	0.29	3.07	1.90	1.62
10	4.79	0.34	3.09	1.93	1.60
11	4.69	0.28	3.12	1.94	1.61
12	4.66	0.28	3.09	1.94	1.60
13	4.72	0.29	3.13	1.95	1.60
14	4.70	0.29	3.13	1.96	1.60
15	4.63	0.33	3.12	1.96	1.59
16	4.42	0.35	3.12	1.96	1.59
17	4.73	0.30	3.20	2.00	1.60
18	4.68	0.34	3.19	2.00	1.60
19	4.69	0.29	3.19	2.00	1.59
20	4.54	0.34	3.20	2.00	1.60
21	4.49	0.28	3.16	1.98	1.60
22	4.64	0.33	3.13	1.97	1.59
23	4.58	0.36	3.17	1.96	1.61
24	4.65	0.29	3.16	1.97	1.60
25	4.74	0.34	3.02	1.92	1.57
26	4.70	0.32	3.01	1.92	1.57
27	4.72	0.22	3.00	1.92	1.56
28	4.89	0.27	3.00	1.92	1.56
29	4.77	0.32	2.95	1.89	1.56
30	4.93	0.37	2.95	1.88	1.56
31	4.87	0.33	2.94	1.88	1.56
32	4.90	0.30	2.93	1.88	1.56
33	4.83	0.26	2.96	1.87	1.58
34	4.90	0.36	2.96	1.87	1.58
35	4.63	0.29	2.99	1.86	1.60
36	4.70	0.31	2.99	1.86	1.61
37	4.76	0.34	3.12	1.94	1.61
38	4.75	0.30	3.13	1.94	1.61
39	4.54	0.31	3.12	1.94	1.61
40	4.55	0.31	3.06	1.94	1.57

41	4.80	0.35	2.98	1.87	1.60
42	4.76	0.31	2.97	1.86	1.60
43	4.67	0.29	2.97	1.86	1.60
44	4.77	0.32	2.96	1.85	1.60
45	4.85	0.30	3.15	1.95	1.62
46	4.73	0.29	3.17	1.96	1.61
47	4.99	0.28	3.08	1.99	1.55
48	4.88	0.32	3.18	2.00	1.59
49	4.64	0.29	3.08	1.91	1.61
50	4.61	0.32	3.10	1.95	1.59
51	4.55	0.28	3.11	1.96	1.59
52	4.61	0.33	3.11	1.96	1.58
53	4.80	0.31	3.09	1.93	1.60
54	4.74	0.33	3.09	1.93	1.60
55	4.66	0.32	3.09	1.93	1.60
56	4.75	0.30	3.07	1.93	1.59
57	5.06	0.29	3.34	2.17	1.54
58	4.94	0.33	3.19	2.07	1.54
59	5.05	0.31	3.10	2.02	1.54
60	5.31	0.27	3.02	1.98	1.53
61	4.96	0.24	2.97	1.89	1.57
62	5.18	0.37	2.95	1.87	1.57
63	4.94	0.25	2.90	1.86	1.56
64	5.00	0.30	2.88	1.85	1.56
65	4.79	0.31	3.00	1.90	1.58
66	4.94	0.34	2.98	1.89	1.58
67	4.96	0.30	2.98	1.89	1.58
68	5.02	0.39	2.96	1.88	1.57
69	5.15	0.31	3.07	1.96	1.56
70	5.00	0.28	3.07	1.96	1.56
71	5.03	0.31	3.06	1.97	1.56
72	5.14	0.30	3.06	1.97	1.55
73	4.95	0.32	3.12	1.95	1.60
74	4.88	0.36	3.13	1.95	1.61
75	4.89	0.33	3.10	1.95	1.59
76	5.00	0.32	3.08	1.95	1.58
77	4.97	0.33	2.97	1.87	1.59
78	4.95	0.33	2.96	1.87	1.58
79	5.02	0.33	2.95	1.87	1.58
80	4.80	0.35	2.98	1.87	1.59
81	4.96	0.30	3.15	1.97	1.60
82	4.93	0.36	3.13	1.97	1.59
83	4.92	0.36	3.13	1.97	1.59
84	4.89	0.33	3.12	1.97	1.59
85	4.86	0.32	3.18	1.96	1.62
86	4.92	0.30	3.09	1.95	1.58
87	5.03	0.31	3.03	1.96	1.54
88	4.85	0.29	3.11	1.96	1.58

89	5.11	0.35	2.96	1.89	1.56
90	5.13	0.24	2.97	1.89	1.57
91	5.17	0.36	2.94	1.89	1.56
92	5.21	0.28	2.94	1.89	1.55
93	4.89	0.31	2.96	1.86	1.59
94	5.05	0.27	2.95	1.86	1.59
95	5.07	0.32	2.96	1.86	1.59
96	4.98	0.24	2.94	1.86	1.58
97	4.87	0.27	3.01	1.87	1.61
98	4.63	0.29	3.00	1.87	1.61
99	4.80	0.27	3.00	1.87	1.61
100	4.86	0.30	3.02	1.87	1.61
101	4.62	0.27	3.14	1.96	1.60
102	4.60	0.31	3.15	1.96	1.61
103	4.77	0.31	3.13	1.96	1.60
104	4.90	0.24	3.10	1.95	1.59
105	4.87	0.30	3.06	1.95	1.57
106	4.75	0.28	3.11	1.94	1.60
107	5.10	0.31	3.08	1.94	1.59
108	4.79	0.29	3.10	1.94	1.60
109	5.18	0.34	2.96	1.91	1.55
110	5.10	0.31	2.99	1.91	1.56
111	4.74	0.29	3.05	1.91	1.60
112	4.77	0.31	3.01	1.90	1.58

Supplement Table C5. Oxygen isotopic composition and Zr-in-titanite temperatures

Sample	Texture	$\delta^{18}\text{O}$ (‰ VSMOW)	Temp(°C)
<i>Notch Peak granite</i>			
oNP-1-1a	1S	5.64	722
oNP-1-1b	1O	6.24	715
oNP-1-1c	1O	6.34	695
oNP-1-1d	2T	5.89	696
oNP-1-1e	2T	6.04	691
oNP-1-1g	1S	5.83	
oNP-1-1h	1O	6.14	
oNP-1-1i	1O	5.87	
oNP-1-1j	1O	5.91	766
oNP-1-1k	1S	5.74	706
oNP-1-1l	2T	5.65	730
oNP-1-1m	2T	6.17	682
oNP-1-1-t1	1O	5.84	
oNP-1-1-t2	1U	5.80	712
oNP-1-1-t3	1U	6.04	717
oNP-1-1-t4	1U	5.99	709
oNP-1-1-t5	1O	5.96	706
oNp-1-2a	1S	5.57	778
oNp-1-2b	1U	6.08	769
oNp-1-2c	1U	5.36	
oNp-1-2d	2A	6.44	
oNp-1-2e	1U	5.92	792
oNP-1-3a	1U	5.93	707
oNP-1-3b	1U	6.70	711
oNP-1-3c	1U	5.90	718
oNP-1-3d	2A	6.21	
<i>Notch Peak aplites</i>			
oNP-18-3a-1a	1U	6.40	
oNP-18-3a-1c	2F	6.43	706
oNP-18-3a-1d	2F	5.81	766
oNP-18-3a-1e	2F	6.07	714
oNP-18-3a-1f	1U	6.15	
oNP-18-3a-1g	1U	5.93	
oNP-18-3a-1h	1U	5.94	
<i>Ferguson Canyon intrusion</i>			
oFC-1a	1U	4.41	
oFC-1b	1S	4.58	
oFC-1c	1U	4.96	
oFC-1d	1U	4.74	
oFC-1e	2A	4.31	
oFC-1g	1U	4.44	
oFC-1h	1U	4.68	
oFC-1i	1U	0.25	

oFC-1j	1U	4.88	
oFC-2a	1U	5.32	
oFC-2b	2A	4.88	
oFC-2c	1U	5.18	
oFC-2d	1U	5.23	
oFC-3a	1U	5.26	
oFC-3b	1U	4.90	
oFC-3d	2A	2.95	
oFC-3e	1U	5.41	
oFC-3f	2A	5.02	
oFC-8a	1U	4.53	
oFC-8b	1U	4.53	
oFC-8c	1U	4.82	
oFC-8d	1U	5.11	
oFC-8e	1O	5.06	
oFC-8f	1U	5.05	
oFC-9a	2A	5.36	
oFC-9b	1U	5.17	
oFC-9c	1U	5.00	
<i>Little Cottonwood stock</i>			
oLC-Corner-18-1a	1U	3.86	
oLC-Corner-18-1b	1U	4.58	
oLC-Corner-18-1c	1U	4.30	
oLC-Corner-18-1d	1U	4.63	
oLC-Corner-18-1e	1U	4.37	
oLC-Corner-18-1f	1U	4.58	
oLC-Corner-18-1g	1U	4.72	
oLC-Corner-18-1h	1U	3.46	
oLC-Corner-18-5a	1U	4.87	
oLC-Corner-18-5b	1U	4.89	
oLC-Corner-18-5c	1U	4.63	
oLC-Corner-18-5d	1U	4.36	
oLC-Corner-18-5g	1U	4.82	
oLC-Corner-18-5h	1U	4.74	
oLC-HFT-1c	1O	4.71	707
oLC-HFT-2a	1Pc	5.37	
oLC-HFT-2b	1Pc	4.90	723
oLC-HFT-2c	1Pc	5.23	721
oLC-HFT-2d	1O	5.09	717
oLC-HFT-2e	1O	4.98	
oLC-HFT-3a	1S	5.17	
oLC-HFT-3b	2T	4.51	
oLC-HFT-3c	1O	5.00	703
oLC-HFT-3d	1U	5.07	739
oLC-HFT-4a	1Pc	5.28	738
oLC-HFT-4b	2A	5.28	708

oLC-HFT-4c	2A	5.04	699
oLC-HFT-4d	1Pc	5.37	709
oLC-HFT-4e	1O	4.70	
oLC-HFT-4f	2B	4.87	
oLC-HFT-4g	1Pc	5.09	
oLC-HFT-4t1	1O	5.28	
oLC-HFT-4t10	1O	4.94	
oLC-HFT-4t11	1O	4.73	
oLC-HFT-4t2	1O	5.03	
oLC-HFT-4t3	1Pc	5.08	
oLC-HFT-4t4	1Pc	4.99	
oLC-HFT-4t5	1Pc	5.18	
oLC-HFT-4t6	1Pc	5.09	713
oLC-HFT-4t7	1Pc	3.51	
oLC-HFT-4t8	1Pc	5.25	
oLC-HFT-4t9	1Pc	5.18	735
oLC-HFT-6a	2B	2.81	659
oLC-HFT-6b	1U	5.11	734
oLC-HFT-6d	2B	4.07	
oLC-HFT-6e	2B	3.80	
oLC-HFT-7a	2A	5.50	727
oLC-HFT-7b	1Pc	5.32	
oLC-HFT-7c	2A	5.42	708
oLC-HFT-7d	2A	5.01	632
oLC-HFT-7e	1S	5.42	710
oLC-HFT-7f	2B	3.41	
oLC-HFT-7h	2B	1.66	
oLC-HFT-7i	2B	2.58	
oLC-HFT-8a	1S	5.30	
oLC-HFT-8b	1U	5.15	
oLC-HFT-8c	2A	5.06	636
oLC-HFT-8d	2A	5.01	
oLC-HFT-8f	2A	4.61	630
oLC-SB-1a	1Pc	4.63	760
oLC-LC-SB-1b	1O	5.06	741
oLC-LC-SB-1c	1U	5.38	734
oLC-LC-SB-2a	1U	5.04	765
oLC-SB-2b	1U	4.87	734
oLC-SB-3a	1O	4.62	734
oLC-SB-3b	1U	4.23	
oLC-SB-5a	1U	5.23	735
oLC-SB-5b	1U	5.25	
oLC-SB-5c	1Pc	5.29	736
oLC-SB-5d	1Pc	5.27	
oLC-SB-5e	1U	5.21	
oLC-SB-5f	1O	5.39	722

oLC-SB-5g	1Pc	5.19	734
oLC-SB-5h	1U	4.69	
oLC-SB-5i	1U	4.94	717
oLC-SB-5j	1U	5.09	747
oLC-SB-5k	2T	3.80	

oLC-SB-6a	1O	5.04	
oLC-SB-6b	1U	5.33	
oLC-SB-6c	1O	5.23	
oLC-SB-7a	1U	5.21	
oLC-SB-7b	1U	5.03	
oLC-SB-7c	1U	5.06	
oLC-SB-7d	1O	5.30	
oLC-SB-7e	1O	5.04	

Little Cottonwood enclaves

oLC-HFT-18-6-1a	1S	5.41	756
oLC-HFT-18-6-1b	1U	5.16	703
oLC-HFT-18-6-1c	1U	5.56	727
oLC-HFT-18-6-1d	1S	4.77	727
oLC-HFT-18-6-1e	2T	5.31	633
oLC-HFT-18-6-1f	1U	5.59	
oLC-HFT-18-6-2a	1U	4.79	
oLC-HFT-18-6-2b	1U	4.98	
oLC-HFT-18-6-2c	1U	5.46	727
oLC-HFT-18-6-2d	1U	4.97	
oLC-HFT-18-6-2e	1U	4.72	
oLC-HFT-18-6-3a	1U	5.38	725
oLC-HFT-18-6-3b	1U	4.87	
oLC-HFT-18-6-3c	1U	5.22	747
oLC-HFT-18-6-3d	1S	4.91	765
oLC-HFT-18-6-3e	2A	5.33	
oLC-HFT-18-6-3f	1U	5.29	730
oLC-HFT-18-6-3g	2A	5.30	681
oLC-HFT-18-6-4a	1I	4.91	
oLC-HFT-18-6-4b	1U	5.15	
oLC-HFT-18-6-4c	1U	4.74	
oLC-HFT-18-6-4d	1U	2.40	
oLC-HFT-18-6-4e	1U	5.09	
oLC-HFT-18-6-5a	1U	5.18	742
oLC-HFT-18-6-5b	1U	5.27	716
oLC-HFT-18-6-5d	1U	5.27	712
oLC-HFT-18-6-5e	1U	4.62	724
oLC-HFT-18-6-5f	1U	4.24	
oLC-HFT-18-6-5f	1U	4.76	
oLC-SB-18-5-1b	1U	5.08	
oLC-SB-18-5-1c	1U	5.45	
oLC-SB-18-5-1d	1U	5.40	
oLC-SB-18-5-1e	1U	5.44	

oLC-SB-18-5-1f	1U	5.43	
oLC-SB-18-5-2a	1u	4.88	756
oLC-SB-18-5-2b	1Pc	4.96	762
oLC-SB-18-5-2c	1U	5.16	
oLC-SB-18-5-2d	1Pc	5.19	747
oLC-SB-18-5-2e	1U	4.84	719
oLC-SB-18-5-2f	1U	4.99	
oLC-SB-18-5-3a	1U	4.72	
oLC-SB-18-5-3b	1U	4.96	742
oLC-SB-18-5-3c	1U	4.95	721
oLC-SB-18-5-3d	1U	5.11	
oLC-SB-18-5-3e	2T	4.60	733
oLC-SB-18-5-3f	1U	5.12	745
oLC-SB-18-5-3g	1Pc	4.83	
oLC-SB-18-5-5a	1U	5.34	735
oLC-SB-18-5-5b	1U	5.17	718
oLC-SB-18-5-5c	1Pc	5.15	731
oLC-SB-18-5-5d	1U	5.09	748
oLC-SB-18-5-5e	1U	5.02	759
oLC-SB-18-5-5f	1O	3.26	

Supplementary Table C6. Laser ablation ICP-MS analyses of titanite in ppm

Sample	Texture type	Li	B	Na	Mg	Al	Ca	Sc
<i>Notch Peak Granite</i>								
nb-176-3a	1U	1.5	7	144	158	7,919	187,100	4
nb-176-3b	1S	17.5	16	205	610	9,276	186,300	7
nb-176-3c	1U	1.3	7	114	120	7,451	186,800	6
nb-176-3d	1U	2.2	8	170	127	6,727	189,000	7
nb-176-3e	1U	2.0	6	127	140	7,247	189,300	9
nb-176-4a	1O	0.9	7	103	112	6,478	183,200	10
nb-176-4b	1U	2.9	8	196	251	8,356	194,400	9
nb-176-4c	1O	1.7	8	113	147	7,768	188,500	5
nb-176-4d	1O	0.5	9	114	121	7,066	177,900	6
nb-176-4e	1O	2.3	7	178	142	7,557	233,000	5
oNP-1-1a	1S	29.0	10	350	322	10,510	179,000	15
oNP-1-1b	1O		50	380	291	8,410	200,000	24
oNP-1-1c	1O		110	350	257	8,700	207,000	16
oNP-1-1d	2T		110	210	214	7,750	210,000	9
oNP-1-1e	2T			290	281	7,720	236,000	8
oNP-1-1j	1O		130	210	205	8,740	212,000	20
oNP-1-1k	1S	14.0	30	970	253	10,240	200,000	16
oNP-1-1l	2T	17.0	280	1,240	266	7,810	217,000	24
oNP-1-1m	2T		80	7,200	269	18,600	157,000	10
oNP-1-1t2	1U		50	120	256	9,460	197,000	22
oNP-1-1t3	1U	29.0	120	370	441	10,410	210,000	8
oNP-1-1t4	1U		90	150	182	8,260	201,000	20
oNP-1-1t5	1O		20	300	222	8,390	205,000	22
oNP-1-2a	1S	26.0	190	380	539	7,310	187,000	55
oNP-1-2b	1U	3.0		110	322	7,470	195,000	88
oNP-1-2c	1U	11.0	150	290	255	6,990	198,000	92
oNP-1-2d	2A		50	140	211	8,220	197,000	2
oNP-1-2e	1U	13.0	150	190	347	8,320	199,000	73
oNP-1-3a	1U	14.0		140	1,360	23,000	189,000	19
oNP-1-3b	1U	11.0	20	310	273	8,800	204,000	10
oNP-1-3c	1U	26.0	170	260	225	9,200	196,000	27
oNP-1-3d	1U	14.0	130	280	2,430	10,000	185,000	36
NP-2-3a	1U	13.7	18	123	208	7,588	180,432	5
NP-2-3b	1O	4.2	17	149	211	7,212	180,136	7
NP-2-3c	1O	12.6	42	142	198	7,165	174,608	4
NP-2-3e	1O	3.6	22	109	180	7,306	173,029	9
NP-2-3f	1S	2.2	39	166	200	6,911	161,185	4
NP-2-5a	1O		28	110	174	6,949	169,476	10
NP-2-5b	1O	1.1		181	275	8,547	172,536	20
NP-2-5c	1S	1.1	54	233	256	7,767	167,008	19
NP-2-5d	1O		70	175	156	6,704	167,502	6

NP-2-5e	1O		27	111	160	6,582	171,746	10
NP-6-10a	2T	2.5	29	129	272	7,790	212,000	0
NP-6-10b	1U	8.7	55	190	343	8,650	212,000	15
NP-6-10c	2T			172	301	7,060	211,000	1
NP-6-10d	2T	4.8		217	275	7,340	220,000	7
NP-6-10e	2T	12.0	13	207	543	7,990	222,000	
NP-6-1a	1O		67	308	331	9,807	209,155	10
NP-6-1b	1O		121	117	229	9,685	202,739	9
NP-6-1c	1U		49	162	275	9,064	184,775	10
NP-6-1d	1O	1.1	82	146	255	8,726	185,170	8
NP-6-1e	2T		64	263	195	7,193	190,697	3
NP-6-1f	2T	0.0	65	154	185	6,854	181,616	3
NP-6-1g	1O		20	147	222	7,945	184,972	7
NP-6-1h	1U	1.1		244	219	7,757	180,827	6
NP-6-4a	1O	0.0	89	171	218	9,120	184,479	12
NP-6-4b	1U	5.3	62	226	266	8,622	169,772	8
NP-6-4c	1U	1.1	64	223	518	8,293	177,471	5
NP-6-4d	2T		47	367	336	8,190	229,982	3
NP-6-4e	2T	4.2	50	181	247	7,503	179,149	4
NP-6-4e-1	2T		69	127	169	7,014	179,642	3
NP-6-4f	2T	7.4	32	3,484	232	11,706	193,560	3
NP-6-5a	1U	2.1	75	246	268	8,820	183,591	13
NP-6-5b	1U	9.5	35	244	223	7,823	185,367	2
NP-6-5c	2T	9.5	49	184	228	8,171	185,367	4
NP-6-5d	1S		74	193	262	8,547	184,281	10
NP-6-5e	1O		23	268	221	7,767	181,616	9
NP-6-5f-1	1S	11.6	22	724	223	7,889	204,516	8
NP-6-8a	2T		30	152	261	6,990	229,000	15
NP-6-8b	1S	5.4	33	218	290	9,100	199,000	29
NP-6-8c	1S	7.0	7	280	280	8,790	245,000	17
NP-6-9a	2T	11.0		182	1,480	8,650	212,000	4
NP-6-9b	1S			230	239	8,060	189,000	20
NP-6-9c	2T			188	370	8,730	197,000	10
NP-6-9d	2T	7.0	65	227	318	8,080	202,000	12
NP-6-9e	1S		26	267	327	9,000	237,000	5
NP-6-9f	2T	1.0		207	334	8,630	203,000	9
NP-6-9g	2T			244	292	9,000	226,000	8

Notch Peak Aplites

NP-18-2a-6a	1U	5.6	9	296	164	8,575	182,000	4
NP-18-2a-6b	1U	6.4	13	377	249	6,637	195,500	3
NP-18-2a-15a	2T	4.7	9	468	89	4,269	188,400	3
NP-18-2a-15b	1U	3.9	6	329	128	7,526	190,600	3
NP-18-2a-15c	1U	4.7	4	355	125	7,285	181,200	3

NP-18-2a-15d	2T	4.2	7	390	148	6,554	188,900	3
NP-18-2a-15e	2F	1.7	5	260	124	7,496	187,900	2
NP-18-2a-19a	2T	4.0	8	500	87	4,088	173,800	2
NP-18-2a-19b	1U	5.7	6	430	101	6,229	179,500	3
NP-18-2a-19c	2T	4.8	6	527	73	3,152	191,200	2
NP-18-2a-19d	1U	6.1	7	347	147	7,587	193,700	4
NP-18-2a-19e	1O	4.4	13	319	119	6,214	170,100	3
NP-18-2a-22a	1O	3.8	6	475	92	4,359	189,300	2
NP-18-2a-22b	1O	5.3	7	333	109	6,727	194,700	3
NP-18-2a-22c	1U	3.7	8	1,400	171	8,077	184,900	4
NP-18-2a-22d	2T	11.6	6	3,280	54	811	172,900	2
NP-18-2a-22e	2T	2.8	5	519	70	2,647	176,900	1
NP-18-2a-26a	2A	3.5	6	522	75	3,605	177,800	1
NP-18-2a-26b	1O	3.6	10	323	115	6,742	183,400	3
NP-18-2a-26c	1U	6.9	9	530	140	7,519	180,200	4
NP-18-2a-26d	2T	7.8	7	1,480	117	4,450	189,300	3
NP-18-2a-26e1	2T	3.7	11	1,330	78	3,786	180,000	1
NP-18-2a-26f	1U	5.8	11	416	112	6,441	198,400	2
NP-18-2a-26g	2T	3.1	4	1,305	67	4,563	180,500	2
NP-18-2a-26h	2T	2.1	8	1,632	70	3,228	188,900	2
NP-18-2a-26i	1U	3.3	6	1,301	102	4,759	186,000	4
oNP-18-3a-1a	2F		50	420	263	9,400	201,000	28
oNP-18-3a-1c	2F	11.0	90	220	329	13,000	203,000	21
oNP-18-3a-1d	2F		140	460	406	11,600	196,000	22
oNP-18-3a-1e	2F	1.0	20	200	289	10,400	199,000	23

Little Cottonwood Granite

LC-23-10a	1U	0.2	7	138	118	5,256	190,200	5
LC-23-10b	1S	0.2	8	194	147	6,757	174,900	7
LC-23-10c	2A	0.1	6	67	105	4,819	178,200	2
LC-23-10d	2A		9	100	111	5,611	190,300	4
LC-23-13a	2A	3.3	9	120	1,967	7,821	204,700	6
LC-23-13b	1U	0.1	9	137	146	6,478	241,500	5
LC-23-13c	2A	2.2	16	530	1,954	5,717	210,000	4
LC-23-13d	2A		9	97	108	6,999	202,300	5
LC-23-13e	1Pc		8	134	128	6,803	208,000	5
LC-23-13g	1O		10	107	116	6,825	209,000	5
LC-23-13h	2A	0.0	8	134	236	7,971	198,100	5
LC-23-3a	2A	0.3	9	70	79	5,618	175,200	9
LC-23-3b	1O		13	111	107	6,576	170,800	6
LC-23-3c	1O	0.2	10	58	123	6,885	173,000	4
LC-23-3d	2A	0.1	6	62	66	5,498	171,500	21
LC-23-3e	2A		5	99	79	6,033	181,400	29
LC-23-3f	2A	0.2	6	90	80	5,732	174,000	6
LC-23-3h	1O		9	121	228	6,365	180,100	5

LC-23-7a	2a	0.2	11	117	114	5,309	207,100	4
LC-23-7b	2a	0.1	6	134	122	5,611	204,200	4
LC-23-7C	2A	0.0	8	91	101	5,083	197,800	4
LC-23-7d	2A	10.7	14	128	7,254	14,857	161,000	5
LC-36-16a	1Pc	2.0	40	55	242	7,580	207,000	9
LC-36-16b	1Pc		49	81	179	7,080	185,000	15
LC-36-16c	2A			1,980	136	12,000	179,000	10
LC-36-16d	1O	11.0	63	188	181	7,700	176,000	14
LC-36-1a	2A		48	680	223	8,300	208,000	6
LC-36-1b	1Pc	2.6	1	123	184	7,690	211,000	12
LC-36-1c	1O		20	70	290	8,300	239,000	2
LC-36-1d	2A		18	9	650	8,600	214,000	15
LC-36-1e	1Pc	8.0	26	172	217	7,800	212,000	19
LC-36-4a	2A			78	159	7,930	197,000	18
LC-36-4b	2A	4.0	60	120	210	8,500	215,000	3
LC-36-4c	1Pc			140	260	8,900	225,000	10
LC-36-4d	2A		36	72	159	9,100	188,000	0
LC-36-4e	2A	40.0	103	110	227	7,300	233,000	14
LC-36-6a	2A	6.0	10	33	176	6,700	214,000	4
LC-36-6b	1O	1.0	36	105	154	8,300	217,000	25
LC-36-6c	2A	4.9	21	57	231	7,920	207,000	18
LC-36-6d2	1Pc	41.0	8	132	5,190	13,200	199,000	19
LC-36-6e	2A	30.0	15	34	2,730	13,500	169,000	36
LC-36-6f	2B	12.0	43	180	263	7,800	206,000	16
LC-36-6g	2B	100.0	47	41	21,900	32,800	143,000	38
LC-36-6h	2B	10.0	70	80	184	9,980	223,000	19
LC-36-6d1	2A			230	1,890	13,100	200,000	
LC-HFT-1a	1Pc		10	183	226	8,160	211,000	11
LC-HFT-1b	1O		5	170	244	11,700	233,000	30
LC-HFT-1c	1O	4.4	75	75	231	9,200	212,000	11
LC-HFT-1d	2A	21.0		56	9,900	21,600	214,000	54
LC-HFT-3a	1Pc		4	102	363	8,280	198,000	13
LC-HFT-3b	1O		21	51	232	10,600	248,000	15
LC-HFT-3c	1O	11.0	14	114	219	8,600	218,000	6
LC-HFT-3d	1O	2.0		112	199	6,970	192,000	9
LC-HFT-3e	2A	2.0	38	116	296	10,300	212,000	35
LC-HFT-5a	1O			138	520	8,640	221,000	15
LC-HFT-5c	1U	5.0	38	174	191	8,970	224,000	
LC-HFT-5e	1O		3	133	206	7,660	190,000	7
LC-HFT-5g	1O	3.0	27	59	204	9,100	206,000	23
LC-HFT-5h	1U	0.3	5	106	216	7,500	190,000	20
LC-HFT-5i	1O		25	190	192	8,580	206,000	6
LC-HFT-5j	1O	10.0	41	116	224	9,200	227,000	21
LC-HFT-5k	1O	3.1	23	77	214	7,900	230,000	22
LC-HFT-6a	1U	11.0	33	164	220	9,000	211,000	12

LC-HFT-6b	1Pc		58	183	371	8,460	242,000	10
LC-HFT-6c	1S	2.4	18	179	294	7,670	213,000	13
LC-HFT-6d	2A	5.0		76	156	9,920	212,000	39
oLC-HFT-7a	2A		130	220	211	6,610	220,000	13
oLC-HFT-7c	2A		10	30	128	6,980	192,000	6
oLC-HFT-7d	2A	9.0		150	2,040	12,100	207,000	65
oLC-HFT-7e	1S	9.0	10	290	197	7,040	211,000	17
oLC-HFT-7f	2A	10.0	30	230	111	8,700	201,000	62
oLC-HFT-8f	2A		160	250	123	9,500	227,000	74
oLC-HFT-2b	1Pc	9.0	120	260	187	7,750	203,000	8
oLC-HFT-2c	1Pc	3.0	140	340	4,350	10,600	186,000	18
oLC-HFT-2d	1O	1.0	20		248	9,200	192,000	17
oLC-HFT-3c	1O		240	340	199	8,060	183,000	22
oLC-HFT-3d	1U		80	150	210	8,940	190,000	14
oLC-HFT-4a	1Pc			130	860	8,360	203,000	15
oLC-HFT-4b	2A	11.0	190		157	9,450	214,000	17
oLC-HFT-4c	2A	14.0	50	160	154	7,790	220,000	27
oLC-HFT-4d	1Pc	24.0		90	304	10,600	194,000	11
oLC-HFT-4t6	1Pc	13.0	10	230	154	7,820	198,000	8
oLC-HFT-4t9	1Pc		150	120	227	7,860	196,000	16
oLC-HFT-6a	2B	7.0	150	0	970	11,200	186,000	162
oLC-HFT-6b	1U		210	220	183	7,530	196,000	15
LC-SB-4b	1Pc		80	215	264	8,585	224,454	7
LC-SB-4c	1Pc	22.1	54	252	1,668	9,581	165,626	8
LC-SB-4d	1O	8.4	0	127	308	8,387	186,947	6
LC-SB-4e	1O	0.0	35	121	221	8,472	183,887	7
LC-SB-4f	2A		52	143	208	7,738	191,092	12
LC-SB-4h	1Pc	4.2	52	141	276	8,039	197,903	8
LC-SB-4i	1Pc	12.6		98	9,194	14,254	165,626	10
LC-SB-4j	1U		44	98	187	7,663	192,178	8
LC-SB-4k	1O	1.6		159	177	7,372	188,427	9
LC-SB-4l	1O	2.7	12	129	208	7,513	188,624	9
LC-SB-4m	2A	7.1	55	101	119	6,554	193,066	10
LC-SB-4n	1O	2.1	35	138	162	6,864	192,079	8
LC-SB-4o	2A	3.6	52	112	1,103	9,055	186,256	15
LC-SB-5a	2A		69	80	99	6,319	179,445	8
LC-SB-5b	1O	3.7	23	136	151	7,005	174,806	5
LC-SB-5c	1Pc		30	123	128	6,516	184,183	5
LC-SB-5d	1Pc		75	130	161	6,638	177,964	6
LC-SB-5e	1Pc		27	120	167	7,061	174,707	4
LC-SB-5f	1Pc	1.3	64	135	171	6,930	179,544	5
LC-SB-5g	1U		32	157	160	7,381	186,848	5
LC-SB-5h	1O		25	154	155	6,488	176,484	4
LC-SB-5i	1O		35	171	170	6,225	186,848	4
LC-SB-5j	1O		37	91	130	6,977	180,432	7

LC-SB-5k	1O		33	165	222	6,713	182,406	7
LC-SB-5l-1	1O		52	133	181	6,977	181,320	5
LC-SB-4a	2A		47	42	92	7,325	186,058	15
oLC-SB-1a	1Pc		130		396	7,660	227,000	22
oLC-SB-1b	1U		49	69	207	7,590	226,000	10
oLC-SB-1c	1O		0		194	7,770	194,000	13
oLC-SB-2a	1U	4.0	0	160	213	8,570	203,000	16
oLC-SB-2b	1U		50	80	268	8,930	189,000	14
oLC-SB-3a	1O	26.0			231	7,780	207,000	11
oLC-SB-5a	1U	4.0			210	8,220	241,000	26
oLC-SB-5c	1Pc		60	20	174	6,920	174,000	14
oLC-SB-5f	1O	14.0	50	390	178	9,000	177,000	9
oLC-SB-5g	1Pc	14.0	230	20	260	8,390	200,000	16
oLC-SB-5i	1U	19.0	60	100	152	7,830	213,000	4
oLC-SB-5j	1U	12.0		50	214	7,530	212,000	13
LC-SL-1a	2A	0.0	7	132	96	6,199	202,700	8
LC-SL-1b	1O	0.2	8	120	116	7,790	228,000	9
LC-SL-1c	1U	0.3	8	124	104	6,991	212,500	3
LC-SL-1d	1Pc	0.3	6	157	84	5,513	194,300	4
LC-SL-1e	1U	0.7	9	231	121	7,459	211,400	9
LC-SL-1f	1U	0.2	6	207	126	7,044	216,700	11
LC-SL-2a	1O	0.1	8	85	108	8,062	215,600	5
LC-SL-2b	1U	0.2	6	101	116	7,994	210,700	7
LC-SL-2c	1U	0.5	6	127	97	6,689	193,700	6
LC-SL-2d	1U	0.1	7	179	104	6,629	203,000	11
LC-SL-4a	1U	0.6	3	106	110	7,255	207,400	6
LC-SL-4b	1O	0.2	6	108	110	7,240	215,800	4
LC-SL-4c	1U	0.4	9	95	108	7,496	207,300	4
LC-SL-6a	1O	0.3	12	309	98	7,587	202,500	6
LC-SL-6b	1S		8	234	105	7,526	201,300	4
LC-SL-6c	1S	0.8	10	171	144	7,511	217,000	6
LC-TQ1a	1O	5.8	2	78	127	6,713	184,676	6
LC-TQ1b	1O	5.8	12	115	148	7,372	182,505	4
LC-TQ1c	1Pc	0.7	42	150	500	8,039	188,723	8
LC-TQ1d	1U		5	128	145	7,936	190,500	8
LC-TQ1e	1O	3.2	5	122	158	7,917	198,199	6
LC-TQ1f	2A		89	264	411	7,992	186,058	7
LC-TQ1g	1O		10	594	133	7,785	186,453	5
LC-TQ1h	2A	1.8		63	99	8,246	193,658	7
LC-TQ1i	1S	3.2	35	266	150	6,883	171,154	5
LC-TQ1j	1U		35	110	138	7,071	188,427	6
LC-TQ1k	1O	0.2	15	94	187	7,889	190,006	5
LC-TQ1l	2A	1.5	57	149	114	8,114	189,809	5
LC-TQ1m	1O	4.6	32	102	119	7,052	191,290	5
LC-TQ3a	1U		32	101	104	7,748	193,461	5
LC-TQ3b	1U		40	133	143	7,080	189,414	10

LC-TQ3c	1U	8.4	40	136	143	7,174	188,723	8
LC-TQ3d	2A	1.1	8	69	84	8,914	204,615	11
LC-TQ3e	2A	2.1	50	59	118	8,133	188,131	7
LC-TQ4a	1S	9.5	27	128	136	6,488	177,076	5
LC-TQ4b	1Pc		18	93	156	6,366	189,612	5
LC-TQ4c	1O	5.3	18	119	197	6,666	179,248	5
LC-TQ4d	1O	1.1	72	128	133	6,864	190,895	4
LC-TQ4e	1U		23	138	134	5,971	185,466	4
LC-TQ4f	1S		49	118	141	6,441	190,697	5
LC-TQ4g	1Pc		70	147	247	7,654	193,658	6
LC-TQ4h	1Pc	9.5	17	138	585	6,582	189,019	6

Little Cottonwood Enclaves

LC-HFT-18-2-11a	1Pm	8.0	57	152	253	8,400	257,000	15
LC-HFT-18-2-11b	2A		19	73	193	7,540	243,000	15
LC-HFT-18-2-11c	1O			77	263	8,180	263,000	5
LC-HFT-18-2-11d	1O	12.0	35	171	183	7,940	243,000	9
LC-HFT-18-2-13a	1U		52	61	191	8,240	232,000	3
LC-HFT-18-2-13b	2A	14.0	86	120	184	9,700	241,000	13
LC-HFT-18-2-13c	1Pc	1.0		92	243	9,900	242,000	27
LC-HFT-18-2-13d	1Pc		170	30	251	9,900	209,000	14
LC-HFT-18-2-13d	1Pc		14	93	289	9,700	230,000	16
LC-HFT-18-2-13e	1U	12.0	80	100	250	8,070	250,000	11
LC-HFT-18-2-13f	1Pc	3.0	61	132	250	10,400	280,000	0
LC-HFT-18-2-13g	1Pc	11.0	39	150	210	7,370	232,000	7
LC-HFT-18-2-14a	1O		20	128	208	9,060	225,000	
LC-HFT-18-2-14b	1U		6	110	200	7,960	221,000	14
LC-HFT-18-2-1a	1U		2	116	560	8,680	251,000	
LC-HFT-18-2-1b	2A		37	116	158	8,860	239,000	13
LC-HFT-18-2-1d	1Pc	6.0	17	113	250	8,330	267,000	15
LC-HFT-18-2-1e	1Pc	3.0	40	107	214	9,040	235,000	5
LC-HFT-18-2-1f	2A	9.2	20	30	150	9,260	241,000	5
LC-HFT-18-2-1g	1O		78	108	179	10,340	274,000	
LC-HFT-18-2-23a	1U	2.5	29	90	196	8,030	212,000	
LC-HFT-18-2-23b	1O			350	242	8,800	230,000	35
LC-HFT-18-2-23c	1Pm	8.0		92	226	7,620	195,000	11
LC-HFT-18-2-24e	1O	13.0	11	145	525	15,300	184,000	17
LC-HFT-18-2-24f	1U	17.0	48	124	254	8,220	220,000	16
LC-HFT-18-2-24g	1O	9.0	73	250	2,500	9,500	222,000	22
LC-HFT-18-2-24h	1U		135	140	226	9,200	260,000	8
oLC-HFT-18-6-1a	1S		30	150	172	6,890	199,000	10
oLC-HFT-18-6-1b	1U	4.0	110	110	171	5,780	201,000	12
oLC-HFT-18-6-1c	1U			30	178	7,860	193,000	18
oLC-HFT-18-6-1d	1S		0	140	157	6,690	194,000	13
oLC-HFT-18-6-1e	2T	10.0	660	350	103	4,860	166,000	7

[illegible]

Ti	V	Mn	Fe	Zn	Ga	Rb	Sr	Y	Zr	Nb
216,576	626	1,190	22,764	20	142	0.1	61	2,884	561	3,143
246,201	648	1,279	29,480	35	223	1.2	138	3,122	1,836	5,766
223,276	518	1,315	20,147	16	100	0.1	28	1,919	448	3,310
230,056	531	1,516	18,256	18	103	0.1	26	1,962	418	5,204
227,635	487	1,428	19,643	20	77	0.1	22	1,549	366	3,487
221,177	493	1,323	19,548	17	85	0.0	23	1,568	373	2,756
227,392	539	1,761	21,314	20	108	0.6	22	2,450	488	5,871
230,863	616	1,247	18,981	17	122	0.1	52	2,514	482	3,424
221,177	520	1,327	18,098	17	100	0.1	31	2,179	456	3,237
233,285	618	1,323	19,422	18	138	0.1	113	2,721	556	3,414
192,000	357	1,756	19,900		30	0.2	7	7,200	567	21,800
216,000	762	1,570	17,330		42		7	2,770	498	10,510
199,000	911	1,680	17,100		31		7	2,470	343	6,270
222,000	739	1,137	14,990		21		21	666	346	1,278
218,000	673	1,300	15,290		22		24	694	314	1,350
196,000	615	1,510	14,900		38	0.8	37	2,880	1,220	3,690
195,000	412	1,650	18,500		25	0.5	9	6,240	425	11,620
202,000	535	1,460	13,540	8	21	0.5	30	445	658	1,980
165,000	464	871	10,960		20		95	524	266	1,130
194,000	630	1,680	14,770		45	0.1	28	3,190	469	3,930
190,000	694	1,557	13,750		57	8.8	75	3,270	515	4,330
209,000	629	1,650	14,220		29		20	2,930	448	4,420
200,000	821	1,593	18,080	4	33	0.3	9	2,320	419	5,690
203,000	334	2,790	21,900	1	49	3.1	25	1,970	1,490	13,600
195,000	380	2,730	20,700		33	0.1	10	1,720	1,284	5,740
194,000	316	3,060	19,400		36		10	1,880	3,620	9,810
217,000	833	1,224	14,160		16		24	196	769	1,920
210,000	362	3,370	20,100		31		7	1,467	1,860	6,430
217,000	603	1,680	15,800	56	52	13.5	30	2,380	431	3,520
208,000	625	1,508	16,800	7	34		20	1,200	461	3,190
198,000	635	1,560	13,700	64	37	0.1	29	2,270	524	4,030
177,000	390	1,163	21,100	10	23	3.6	38	412	1,500	1,790
191,462	660	1,197	15,199		19	3.0	60	2,404	421	3,071
194,685	633	1,233	13,242		24		40	2,383	408	3,720
198,950	592	1,264	13,094		23		54	2,417	438	3,333
194,780	641	1,253	13,826		20	1.3	40	2,247	392	2,787
186,249	630	1,168	12,630		25	3.8	65	3,085	525	5,904
189,661	574	1,259	13,678		20	6.1	24	1,947	349	3,322
188,998	605	1,954	16,377	1	16		9	2,681	364	6,029
182,932	556	2,062	15,765		22		16	2,713	412	6,928
192,694	586	1,253	11,758		21	2.5	38	1,839	389	4,209

193,358	527	1,359	13,020		26		30	1,902	407	3,003
200,000	700	1,450	14,900	21	6	3.1	21	436	361	1,410
211,000	655	1,950	16,100	57	5	0.1	14	1,240	601	7,750
208,000	662	1,520	15,500	2	11	3.6	21	828	520	3,020
230,000	675	1,730	15,000	6	11	3.3	19	463	620	3,190
216,000	673	1,360	15,800	12	4	3.3	17	714	170	1,950
211,556	689	1,638	16,210	1	21		54	3,808	641	4,641
211,082	719	1,371	14,466		30		43	3,064	573	3,572
204,163	676	1,527	14,911	1	21		51	3,766	618	4,141
203,215	674	1,496	13,947		22		51	3,372	551	3,982
207,670	1,715	982	11,397	1	27	1.0	28	2,032	322	4,118
197,908	971	963	11,248		15		18	590	305	1,511
205,301	772	1,324	14,309		22	1.1	46	2,624	501	3,538
203,405	1,002	1,250	13,446	1	32	4.2	44	2,307	506	3,709
212,504	704	1,459	15,180		18		31	3,159	532	3,777
199,614	733	1,334	14,921		23		59	4,255	612	3,640
203,310	755	1,315	14,476		21		66	3,755	608	3,993
190,325	801	1,170	15,180	1	14	1.3	75	403	638	4,141
193,737	841	908	13,344	1	20		61	305	781	2,798
192,410	667	1,276	13,650	0	16	4.9	19	444	651	6,268
202,836	742	1,156	13,493	1	36		45	640	731	5,301
187,102	605	1,824	17,842		29		11	1,727	639	13,389
188,429	532	1,211	15,162	1	25	5.9	13	767	307	4,914
194,306	652	1,366	16,349	1	23		18	498	454	1,771
184,164	639	1,781	14,976		18		22	2,670	464	5,699
174,307	598	1,508	15,162		18		21	2,319	403	5,904
170,515	556	1,741	13,085		19		38	2,659	464	7,076
221,000	960	1,690	18,100	33	15		23	442	274	999
211,000	679	2,110	18,100		19	3.8	18	1,990	1,120	10,600
217,000	884	1,890	15,100	3	8		114	2,840	550	4,370
213,000	1,350	1,570	17,200	59	12	8.1	27	646	443	2,580
197,000	1,080	1,340	14,600	60	9		31	3,350	444	4,850
201,000	1,120	1,480	17,400	30	8	12.6	19	371	478	2,540
201,000	1,110	1,570	16,500	107	14	6.8	33	421	762	3,410
232,000	1,080	1,550	19,500	40	9		27	590	1,510	7,260
201,000	1,090	1,620	18,100	86	5	6.9	22	296	486	2,420
224,000	903	1,700	16,700		5	2.5	27	617	747	6,540
176,376	570	1,549	13,022	88	62	0.1	10	913	748	4,059
177,991	550	977	10,468	24	90	0.4	15	809	631	5,808
169,999	458	217	9,522	17	40		35	166	557	4,195
165,640	575	1,062	12,517	16	63		10	701	885	4,840
166,932	433	1,140	9,963	19	75		12	620	975	6,963

165,640	376	1,118	9,837	22	37	0.2	13	235	524	6,058
146,752	869	649	24,814	17	29		19	1,518	298	9,961
171,695	478	629	9,522	16	43		80	596	336	4,257
166,286	393	1,152	14,125	17	69	0.4	9	597	968	6,329
169,838	428	183	9,175	18	28		65	172	355	4,309
167,497	699	1,176	17,089	18	88		13	1,713	948	8,900
152,967	402	2,314	13,211	22	71		19	559	785	5,787
189,050	431	215	10,279	16	44		36	167	495	4,517
191,714	562	1,097	11,824	18	75		10	808	522	5,704
173,067	509	1,076	19,769	20	58	0.2	18	681	545	3,820
191,310	83	2,269	2,567	21	14		286	131	157	3,279
183,803	397	138	8,229	19	17		76	121	169	3,674
175,246	404	272	6,369	21	35		55	255	331	4,278
176,457	540	1,036	8,734	20	81		11	810	663	5,111
162,735	644	1,122	10,405	16	66	8.0	11	1,440	527	4,476
193,570	184	2,810	9,837	550	29		153	653	898	5,027
184,045	125	1,082	2,648	135	15		146	243	177	2,217
210,683	542	1,028	6,517	19	78		13	762	605	5,517
210,764	188	889	2,135	17	43		82	467	468	2,446
204,387	140	1,373	2,251	22	11	0.1	256	127	137	2,685
191,633	363	1,457	5,770	43	47	0.1	194	1,238	908	4,642
197,000	372	2,380	17,390	4	17		8	541	3,220	7,730
206,000	521	2,600	17,700		9		7	350	421	3,110
187,000	417	2,600	22,000	47	19	2.4	13	866	1,230	9,550
216,000	509	2,240	19,800	13	9		9	278	486	4,220

205,033	460	948	25,066	20	120		28	678	585	1,457
189,776	498	959	29,228	17	161	0.1	29	1,243	736	4,274
188,404	535	723	23,048	29	42		27	117	185	441
204,225	507	759	24,782	20	62		29	234	303	863
223,518	457	844	31,214	46	47	3.8	36	197	649	1,409
241,438	483	916	25,854	18	145		49	1,177	556	2,161
146,913	427	1,380	23,174	40	66	13.4	820	195	199	676
226,827	472	857	25,097	19	86		34	509	360	893
230,056	433	924	23,931	20	114	0.2	56	776	913	1,839
230,702	488	924	22,197	19	110		37	984	503	1,775
222,791	456	748	19,674	19	52	5.0	30	289	355	1,035
186,790	513	811	12,927	17	33		24	175	252	144
185,337	482	970	15,985	18	125		27	1,094	509	1,424
187,355	485	908	16,648	12	125		52	1,313	536	1,230
194,942	545	567	11,004	17	22		22	625	107	1,941
198,736	551	651	14,314	15	33		21	1,983	137	2,802
188,323	522	754	18,476	18	58		27	388	259	303
198,817	442	945	22,291	21	144		43	1,583	594	1,753

211,490	461	867	7,684	18	97		25	382	401	1,655
217,867	487	860	9,295	20	116		28	531	450	1,787
199,382	457	869	8,891	14	79		27	440	418	1,509
154,985	397	860	20,494	50	52	104.0	26	190	199	1,116
222,000	750	1,240	16,700	66	3	3.4	51	820	423	1,290
208,000	658	1,010	13,200	22	10		33	1,180	282	1,460
190,000	781	672	11,400	4	6	0.1	33	54	51	245
187,000	740	890	11,600		1	4.4	16	499	221	1,370
213,000	830	1,120	15,400	8	1	1.9	21	525	191	1,280
232,000	746	1,115	14,090	47	6		48	761	808	1,500
273,000	1,020	1,480	15,500	33	22	2.0	47	1,300	373	1,780
212,000	880	970	12,800	50	8	23.0	17	126	45	600
241,000	860	1,160	13,500		12	5.2	65	1,010	420	1,890
205,000	787	1,047	14,700	17	4	1.7	15	377	165	1,024
228,000	920	1,130	15,400	19	30	6.3	23	190	164	601
254,000	700	1,240	15,100	3	16		50	69	334	304
206,000	970	910	14,200		9	9.3	17	153	106	381
256,000	870	1,190	13,400		6		18	590	239	2,400
202,000	820	1,150	11,100	52	1		37	1,050	299	1,950
223,000	910	1,120	15,300	90	16		19	710	240	1,410
222,000	760	1,150	14,800	49	2		25	697	243	1,330
217,000	800	2,110	41,500	85	6	26.0	66	810	343	1,040
177,000	1,180	770	23,100	31	9	22.7	17	55	60	276
228,000	780	1,250	16,800		7	1.4	69	1,680	569	2,050
160,000	1,290	4,740	46,600	240	15	144.0	22	25	32	220
249,000	950	1,190	14,100	43	14	2.0	26	66	106	790
290,000	1,080	2,500	23,000		21		120	1,180	570	1,200
232,000	766	1,260	13,600	60	2	0.7	56	231	369	530
226,000	756	1,200	17,500	33	5	13.1	24	623	295	1,570
217,000	639	1,190	14,500	60	17	2.9	45	793	340	1,430
211,000	982	1,770	31,300	149	26	0.6	19	66	32	88
222,000	790	1,240	16,200	23	12	1.7	55	879	524	898
245,000	960	1,330	15,600	90	6	3.9	52	630	265	1,770
239,000	714	1,190	14,200	29	3	3.8	40	709	322	2,290
194,000	800	1,100	12,000	41	8	2.3	62	1,160	254	1,830
225,000	780	1,420	17,600	42	10	4.9	25	377	192	1,190
217,000	674	1,430	16,700	59	9		10	302	245	1,570
216,000	712	1,015	14,100	14	13	1.1	44	1,190	305	1,880
214,000	600	1,080	14,200	44			68	1,160	399	1,240
196,000	660	1,330	15,200		5		20	284	195	1,320
191,000	558	1,070	14,400	18	6	2.4	66	1,050	378	1,070
215,000	686	1,130	15,400	21	4		60	1,040	388	1,360
241,000	810	1,400	18,400	16	4		6	453	264	2,550
201,000	643	1,210	14,200		10	0.5	14	402	259	2,340
226,000	765	1,230	11,900	14	8		53	1,250	270	2,230

226,000	604	1,360	15,500	28	10	3.0	76	499	450	656
204,000	625	1,190	14,800	11	8	1.2	92	2,270	551	1,920
207,000	750	1,240	15,400	19	8		20	97	112	546
207,000	475	927	11,200		51		52	1,225	497	1,660
208,000	573	897	9,490		25		47	1,164	347	2,140
213,000	826	1,075	14,200	104	12	0.9	20	270	72	976
205,000	538	1,274	13,070		28		15	1,281	361	2,740
216,000	765	920	9,350		7		23	426	80	1,690
211,000	876	835	10,710		7		16	236	69	817
223,000	525	1,400	17,600		28		50	696	459	1,113
197,000	494	1,280	21,400	50	32	21.6	55	882	447	1,005
199,000	628	1,210	18,000	34	34	0.7	42	1,195	416	1,710
206,000	572	1,155	14,080		23		13	676	320	2,110
230,000	648	1,011	12,450	2	50		76	1,890	622	1,480
208,000	633	1,630	36,400	31	48	0.2	67	1,204	608	1,011
210,000	621	1,036	12,490		28	0.2	27	765	350	1,532
217,000	574	1,126	12,340	13	19		20	843	293	1,880
196,000	709	1,070	11,430	10	22	13.9	48	664	357	726
211,000	628	1,008	9,700	8	27		57	1,296	387	1,740
198,000	594	1,470	17,400	17	43	0.4	71	1,209	575	902
186,000	696	892	11,200	28	7		18	181	130	710
195,000	534	1,031	12,690		39	0.1	51	1,510	567	1,890
179,614	595	1,259	17,155		23	2.5	92	1,624	526	1,219
216,106	893	3,827	143,735	4	45		65	1,752	659	1,660
219,708	640	2,719	68,622	2	20		66	1,867	608	1,260
207,575	640	2,584	51,003	3	39	1.3	55	1,536	547	1,200
182,458	567	1,146	19,845	1	20	2.7	16	368	351	1,126
200,846	547	1,064	18,454	1	24	4.6	48	1,282	477	1,549
179,330	755	1,596	22,441	4	61	10.8	39	829	12,851	1,109
196,675	587	1,011	12,268		12		46	1,211	476	1,647
196,770	519	1,191	13,678		37		14	720	429	1,775
192,694	509	1,169	13,122		20	4.6	17	529	379	1,093
198,571	523	1,071	11,480	1	25	1.3	16	352	363	1,008
197,718	490	1,220	12,862		28	6.3	17	873	482	1,894
190,325	658	1,066	13,567	1	22		15	231	214	490
159,805	439	1,089	10,609	1	14		14	33	153	188
166,440	540	1,040	10,609		18		48	1,037	367	1,280
170,705	538	1,141	9,060	1	16		39	318	369	1,080
163,786	560	1,040	13,224	1	33		51	693	453	917
167,956	566	981	10,989		13		59	1,582	389	1,453
168,525	583	942	12,769		17		59	1,499	448	1,317
171,653	682	1,023	11,907		23	0.2	54	1,511	450	1,496
164,354	554	979	11,545		23	4.0	69	1,905	466	1,537
174,022	545	1,128	11,128	1	22	4.0	55	1,694	463	1,557
170,231	624	978	11,703		18	2.7	31	924	312	1,680

164,828	536	1,087	12,000		23	4.2	23	907	335	1,850
164,544	581	1,077	12,092	0.2	21	4.2	59	1,533	436	1,313
176,771	657	909	14,837	0.3	22		16	106	104	138
254,000	849	1,600	78,000	54	30		45	934	1,023	1,014
232,000	621	927	11,870		53		73	1,890	731	1,509
217,000	549	840	13,280		46		57	1,578	643	1,439
219,000	569	974	15,520		64		60	2,650	1,113	1,750
225,000	656	1,012	14,800	27	56	1.0	64	2,230	650	1,430
225,000	596	938	11,880		46	0.1	78	1,677	643	1,402
239,000	573	960	15,000		33	0.2	62	1,448	651	1,270
220,000	551	970	11,740		43		67	963	666	1,141
205,000	541	1,056	11,280	34	49		59	1,386	523	1,395
224,000	562	1,009	14,060	17	42	0.2	68	1,740	646	1,160
212,000	564	1,020	9,580		30		63	1,680	476	1,940
221,000	483	952	11,460		51		56	1,224	810	1,472
229,249	518	1,527	15,828	17	46		10	570	259	3,372
235,707	579	1,508	19,801	18	77	0.1	6	2,298	441	5,777
228,442	578	1,127	12,996	20	112	0.1	51	2,049	410	4,757
213,912	479	1,236	12,549	17	79	0.3	30	1,725	513	2,834
217,141	542	1,556	19,454	18	113	0.1	5	3,317	781	
212,055	538	1,788	21,850	18	68	0.0	3	1,581	407	8,827
274,453	628	1,220	17,203	22	85	0.0	38	2,125	391	2,790
267,188	593	1,361	18,363	18	87	0.1	33	2,385	464	3,414
253,465	538	1,165	16,049	17	91	0.1	26	2,428	619	5,850
244,586	538	1,540	19,895	18	83	0.0	5	2,426	503	7,744
242,407	584	1,281	17,341	18	89	0.1	35	2,547	425	3,106
269,610	583	1,159	14,926	20	104	0.1	46	2,569	463	4,538
265,574	590	1,163	15,683	19	84	0.1	40	2,363	455	3,622
246,201	586	1,194	17,657	17	70	0.0	26	2,124	464	3,320
240,146	556	1,062	16,490	20	77	1.0	41	2,144	502	3,200
218,675	647	1,143	15,702	18	138	0.4	73	2,424	717	4,226
193,168	642	1,128	9,987		16		21	1,413	328	5,187
191,747	640	1,066	11,601		13		34	1,916	329	2,496
194,590	744	1,329	13,187	1	24		25	2,277	370	3,197
200,088	642	1,371	13,938		22		33	2,798	410	2,821
206,438	647	1,202	13,112		22	2.3	37	2,392	424	2,339
188,145	660	1,170	11,953		17	1.5	13	973	226	2,689
191,178	673	1,112	11,202		25	4.6	22	1,545	286	2,784
191,273	680	1,136	12,055		24	0.2	15	315	160	1,568
178,193	554	980	10,720		22		41	2,341	475	3,538
192,694	598	1,207	12,074		16		36	2,574	373	2,935
197,623	653	1,105	12,964		27	4.0	40	2,117	377	2,140
195,254	715	1,146	11,898		21		15	757	208	2,275
197,149	661	1,051	10,683		15	0.4	22	1,624	307	2,843
198,287	690	1,117	11,295		10	2.7	18	1,439	229	2,795
198,571	537	1,476	13,975		10		11	2,351	349	4,050

200,846	598	1,429	14,068		10		18	2,239	382	3,142
211,272	814	989	11,044		15		15	343	84	1,442
194,021	697	992	10,507	1	16		15	474	109	1,834

194,685	600	1,100	11,211	1	19		36	2,096	427	3,583
215,158	736	1,603	36,629	1	18		43	2,160	427	3,049
199,329	643	1,211	15,078		19	7.4	37	1,981	369	2,677
206,154	642	1,093	11,146		23		36	1,904	352	2,912
200,277	605	1,102	10,711		16	4.9	42	2,213	460	3,640
204,827	621	1,150	11,313		16		37	2,306	479	4,869
233,167	728	4,205	47,108	2	21		48	1,400	656	2,148
225,679	671	1,612	25,130	1	17		39	1,869	401	3,036

266,000	780	1,260	14,800		7	3.4	117	1,060	720	1,570
216,000	687	1,080	11,400	73	5	1.2	46	716	231	1,770
259,000	820	1,270	16,000	40			75	1,810	462	1,730
238,000	785	1,060	10,840		3		51	1,052	300	2,320
256,000	823	1,200	12,500	22			64	1,410	405	2,160
254,000	790	1,240	15,300	1	9	2.3	28	633	281	1,190
251,000	920	1,200	18,300	30	5	5.3	113	1,700	2,940	2,020
219,000	1,480	1,140	188,000	20	18	10.0	88	1,200	2,470	1,650
221,000	960	1,140	18,900	83	8	3.6	129	1,310	2,620	1,750
273,000	844	1,300	14,200		7		58	797	392	1,890
298,000	1,050	1,720	15,200	130	3	6.0	83	1,520	480	2,440
269,000	940	1,100	12,000		8	2.3	82	698	564	1,390
255,000	732	1,181	12,920	29	5	0.9	38	662	418	1,700
251,000	778	1,070	10,640	27	2	1.3	65	1,435	340	2,520
246,000	662	1,040	12,700		10		48	1,610	526	1,710
244,000	702	1,003	11,820	16	8	1.0	49	1,510	398	1,990
279,000	716	1,160	12,300		3		88	1,520	960	1,870
261,000	664	1,120	15,200	1	6	2.7	69	1,060	605	743
248,000	682	1,069	15,200		6	0.7	29	819	310	789
267,000	885	1,140	14,500	19	4	6.3	69	1,750	910	2,220
252,000	773	1,138	11,760	15	2		59	1,232	323	2,150
270,000	950	1,380	14,300			1.0	66	1,140	550	2,140
251,000	880	1,140	11,900	34		1.1	117	761	486	1,440
222,000	660	1,020	12,000		13	15.8	61	861	324	1,590
275,000	1,120	1,380	34,200	24	1	1.5	67	1,180	348	1,780
277,000	850	1,670	19,600	102	16	12.4	56	880	372	1,780
307,000	920	1,510	13,200	33	19	3.1	87	1,510	372	2,780
182,000	657	867	10,850	10	36	0.1	56	1,070	774	1,840
205,000	626	945	10,090	9	32		28	1,370	299	1,352
201,000	751	897	12,940	15	33	0.3	54	1,124	469	834
193,000	692	810	10,720	15	50		58	1,624	467	1,280
199,000	680	490	8,310		23	0.1	41	1,860	71	755

199,000	719	994	11,470	8	24	0.1	53	921	468	540
194,000	751	860	13,510		28	0.1	52	863	453	731
195,000	757	893	15,300	5	60	0.1	57	2,230	664	1,436
202,000	781	888	13,140	16	72	0.2	67	2,750	908	2,150
185,000	763	847	14,000	2	47		52	1,310	492	869
200,000	768	896	11,450	9	19		22	469	193	421
193,000	722	874	9,080		33		43	1,165	606	1,216
167,000	672	845	11,030	8	20		74	770	378	495
182,000	649	786	10,280	18	26	0.2	42	872	352	1,088
201,000	699	970	13,280	8	23		50	788	440	435
211,000	541	1,229	15,320		39		4	1,215	698	4,280
198,000	699	1,171	14,510		35		5	1,069	773	2,230
223,000	645	1,049	10,290		45	5.4	74	1,910	592	1,471
200,000	541	1,114	15,350		25		9	597	361	658
240,000	783	956	11,660		35	0.2	68	1,870	541	1,497
156,000	586	770	16,100	35	37	38.9	48	1,210	371	1,270
249,000	819	1,250	12,600	16	16		71	455	467	729
225,000	723	936	11,230		32	0.9	61	1,422	575	1,426
204,000	575	899	10,590		34	2.9	102	1,540	484	1,425
215,000	714	998	9,630		24		61	1,456	352	1,830
244,000	710	3,300	18,500	10	23	1.9	70	728	445	967
221,000	756	941	11,530		34		60	1,870	602	1,870
224,000	665	1,108	11,720		33		9	1,177	737	2,050
1,606	683	126	2,008		6	3.5	47	94	61	177

Mo	Mo Magm	Sn	Sn Magm	Ba	La	Ce	Pr	Nd	Sm	Eu
32	32	161	161		2,104	8,923	1,442	7,552	1,598	266
49	49	221	221	29	7,150	14,522	1,945	9,787	1,804	292
43	43	219	219		1,613	6,211	922	4,241	843	141
52	52	253	253		1,533	6,284	916	4,335	858	141
46	46	250	250		1,351	4,959	670	2,987	560	100
40	40	236	236		1,371	5,179	728	3,363	669	113
51	51	248	248	1	1,568	6,804	1,066	5,223	1,064	144
36	36	159	159		1,818	7,882	1,263	6,455	1,369	227
42	42	216	216		1,584	6,302	945	4,732	964	158
35	35	170	170		2,164	8,969	1,428	7,197	1,516	252
24	24	743	743		803	4,160	712	3,910	1,221	207
36	36	244	244		1,105	6,160	991	5,470	1,115	171
31	31	91	91		713	3,940	776	4,250	912	140
93		171			1,599	4,790	541	2,060	300	72
138		146		4	1,720	4,810	624	2,250	325	66
36	36	226	226		2,170	7,650	1,205	5,450	1,182	179
33	33	449	449		926	4,190	726	3,920	1,104	165
37		306			1,960	3,970	432	1,510	242	29
74		127		4	1,410	3,950	395	1,600	200	47
36	36	203	203		2,100	8,050	1,276	5,640	1,224	172
30	30	191	191		3,140	10,590	1,601	8,010	1,570	232
40	40	211	211		1,750	7,290	1,144	4,800	944	141
37	37	169	169		1,002	4,810	863	4,250	893	162
29	29	126	126	7	2,690	8,250	1,127	4,580	798	105
31	31	134	134		1,615	5,660	764	3,610	609	96
20	20	186	186		1,790	6,290	909	3,900	646	102
122		195			2,030	3,910	293	831	88	35
30	30	100	100		1,545	4,810	631	2,690	469	76
42	42	202	202	2	1,750	6,960	950	4,790	942	146
31	31	168	168		2,152	6,800	798	3,200	527	67
50	50	196	196		1,990	7,690	1,006	4,850	864	143
46	46	234	234	4	1,920	3,780	341	1,210	136	34
83	83	144	144		1,600	6,956	1,206	6,002	1,464	298
51	51	191	191		1,888	7,826	1,170	5,381	1,118	192
57	57	164	164		1,998	8,456	1,371	6,558	1,455	279
47	47	196	196		1,894	7,673	1,172	5,296	1,142	203
83	83	219	219		2,323	10,033	1,664	8,034	1,809	374
58	58	203	203		1,678	6,135	900	3,851	729	121
65	65	314	314		1,339	5,542	863	3,766	781	95
63	63	356	356		1,695	7,080	1,060	4,568	979	125
65	65	239	239		2,935	9,288	1,274	5,028	897	147

47	47	243	243		2,083	7,596	991	4,108	748	130
25		113			2,390	5,670	550	1,760	222	41
68	68	239	239		2,310	7,280	801	2,880	446	82
53		127			2,440	7,230	680	2,470	289	75
63		136			3,470	7,740	592	1,600	167	66
37		183			970	3,380	435	1,750	280	63
45	45	242	242		2,869	9,938	1,699	8,313	1,716	249
52	52	204	204		2,325	8,447	1,371	7,007	1,471	227
30	30	214	214		2,846	10,129	1,784	9,243	2,016	282
32	32	191	191		2,356	8,925	1,515	7,681	1,720	261
21		166			1,113	4,510	690	3,488	750	93
57		99			1,318	3,306	368	1,602	293	56
53	53	179	179		2,214	8,304	1,327	6,815	1,532	223
61	61	193	193		2,365	8,705	1,328	6,740	1,490	213
48	48	227	227		2,080	8,017	1,286	6,590	1,473	203
47	47	182	182		2,743	10,731	1,907	11,137	2,587	344
50	50	212	212		2,561	9,985	1,671	9,350	2,317	317
115		429			1,428	3,535	359	1,292	191	53
50		273			2,129	4,032	346	1,184	122	27
123		376			1,844	4,539	397	1,345	168	33
59		372			1,966	4,271	445	1,669	224	35
127	127	355	355		1,720	6,393	773	2,963	466	87
55	55	155	155		2,965	8,638	922	3,231	415	57
49		142			1,865	4,692	475	1,578	188	56
54	54	271	271		2,017	7,893	1,192	5,488	1,122	148
48	48	250	250		1,702	7,109	1,058	4,686	866	123
59	59	314	314		2,150	8,390	1,296	5,670	1,061	148
17		63			987	2,420	284	1,030	106	30
105	105	421	421		2,350	9,300	1,160	4,060	477	109
76	76	230	230		2,740	12,900	1,810	7,970	1,560	259
30		152			1,870	5,900	655	2,270	288	53
34	34	209	209		1,680	8,170	1,320	6,540	1,260	197
48		130			1,510	5,340	580	1,970	216	50
17		179			1,590	5,770	640	2,260	230	45
42	42	286	286		2,500	8,200	860	3,120	314	57
39		112			1,570	5,260	537	1,610	157	42
41		269			2,780	7,400	757	2,360	261	65
19	19	37	37	1	1,225	4,055	493	1,892	221	25
36	36	71	71	3	2,029	6,823	716	2,460	272	40
16		48			1,107	2,895	318	1,076	115	22
28	28	49	49		1,544	4,758	528	1,788	194	29
30	30	52	52		2,151	6,128	570	1,730	157	38

16		63			1,338	2,671	205	552	44	37
20		506			356	1,598	285	1,449	345	74
20		117			928	3,206	374	1,368	190	27
58	58	85	85		1,600	5,133	520	1,726	151	39
16	16	76	76		696	2,064	236	901	118	22
39	39	99	99		1,648	6,220	748	2,998	468	40
47	47	84	84	171	1,736	5,197	533	1,755	170	32
17	17	55	55		1,186	3,159	351	1,171	114	24
41	41	48	48		1,551	5,928	658	2,402	299	33
48	48	77	77	1	1,247	4,457	469	1,615	167	33
5		15			365	1,027	107	399	44	9
13		63			314	1,065	143	615	86	15
15		63			749	2,307	275	1,119	147	23
41	41	65	65		1,820	5,800	644	2,253	261	35
41	41	74	74		1,253	4,649	584	2,299	320	32
4		288			783	1,690	191	731	103	19
3		24		1	346	951	109	380	60	11
42	42	59	59		1,808	5,955	660	2,252	267	36
11		42			981	3,040	349	1,198	124	29
5		39			384	823	83	269	30	7
13	13	108	108		977	3,297	437	1,800	285	24

22		290			703	1,980	196	651	100	66
28		113			399	1,216	124	417	68	39
39		215		2	866	2,720	319	1,500	260	69
25		131			333	722	68	228	37	26
44	45	187	196							
3	13	15	37							
138	127	743	743							

86	86	124	124		2,778	8,065	819	3,001	402	70
73	73	127	127		3,821	11,088	1,223	4,679	695	90
87		57		6	1,466	2,763	224	729	72	27
60		61		0	1,816	4,302	373	1,295	150	36
39		96		5	1,508	2,914	287	1,007	108	27
65	65	100	100	0	3,479	9,435	1,184	4,878	718	116
48		75		11	3,092	4,019	375	1,222	125	31
66		84			2,502	5,791	629	2,402	301	59
54	54	106	106		2,705	7,526	897	3,426	436	153
46	46	97	97		2,590	7,352	896	3,624	486	92
42		78		198	1,768	3,635	369	1,337	166	39
60		80			1,150	2,205	194	673	86	24
42	42	109	109		2,396	7,617	931	3,729	577	91
45	45	77	77		2,059	7,498	1,055	4,951	926	152
44		241			350	1,190	178	886	217	69
40		277			294	1,553	350	2,183	676	151
83		84			1,644	3,836	384	1,411	207	45
46	46	96	96	2	2,754	9,216	1,268	5,839	1,029	152

71		92		2,831	6,549	577	1,859	219	56
52		88		3,169	8,110	735	2,455	307	72
68		98		2,370	5,325	541	1,864	242	58
43		72	89	1,159	2,731	272	922	124	34
35	35	114	114	1,700	6,900	810	2,620	450	136
37	37	100	100	1,640	7,390	880	3,520	544	119
7		59		105	322	33	120	13	23
22	22	111	111	734	2,920	320	1,060	158	42
32		74		810	3,050	366	1,180	222	45
39	39	137	137	2,130	7,080	765	2,500	394	97
88	88	74	74	1,700	7,600	990	4,600	730	146
30		103		239	910	84	330	38	38
61	61	116	116	2,110	7,800	870	3,060	519	134
7		89		693	2,270	239	891	115	34
27		81		465	1,680	172	600	79	36
50	50	80	80	525	1,050	94	289	22	48
8		81		281	820	72	302	48	14
21		127		870	2,740	370	1,230	269	42
87		93		800	4,670	541	2,520	459	138
50	50	112	112	970	4,400	439	1,900	285	70
35		107		890	3,400	411	1,580	202	54
18	18	75	75	1,850	7,200	800	3,260	475	152
22		56		154	416	36	100	10	10
62		118		3,160	13,900	1,660	6,770	1,000	203
23		38		90	390	23	88	10	4
35		92		303	750	54	177	13	12
200		0		2,600		1,300	3,700	530	340
48	48	96	96	2,000	5,140	473	1,290	116	120
67	67	107	107	1,390	5,100	572	2,090	350	55
61	61	80	80	1,760	7,400	807	3,280	509	117
27		36		99	362	48	134	29	11
33	33	119	119	2,350	8,800	1,060	3,420	468	160
145	145	113	113	740	3,150	400	1,650	306	91
78	78	138	138	1,310	5,820	691	2,670	428	95
79	79	87	87	1,080	5,010	721	3,070	652	154
65		131		833	3,490	329	1,220	168	51
37	37	129	129	1,170	4,160	420	1,460	164	36
60	60	102	102	1,100	5,590	757	3,480	714	157
39	39	72	72	2,440	9,500	1,210	5,110	880	202
35	35	117	117	930	3,300	337	1,350	130	45
43	43	61	61	2,160	8,300	1,190	4,960	940	187
38	38	92	92	2,140	8,260	1,090	4,470	682	141
2	2	177	177	1,490	4,510	433	1,350	186	39
33	33	169	169	1,260	4,580	421	1,420	153	46
103	103	105	105	1,100	5,020	807	3,840	830	183

38	38	81	81		2,430	8,790	991	3,370	402	163
56	56	102	102		3,800	16,100	2,360	12,600	2,450	365
55		58			524	1,750	152	548	48	13
57		75			2,470	9,000	1,174	5,860	986	174
76		85			1,066	3,840	571	3,080	561	138
18		152			214	859	123	594	112	54
52	52	131	131		1,700	6,230	830	3,730	628	94
13		243			183	688	107	543	125	84
12		184			129	476	66	340	70	50
42	42	80	80		1,750	5,380	645	2,260	330	116
43	43	85	85	11	1,870	6,470	820	3,000	519	120
67	67	94	94	3	1,590	5,710	812	3,570	680	136
24	24	132	132		1,323	3,840	424	1,800	294	48
49	49	86	86		2,350	7,810	1,286	5,820	1,178	196
39	39	73	73	1	2,760	9,370	1,364	5,300	776	191
44		105			1,155	3,770	503	1,930	294	69
37		120			1,104	4,070	556	2,450	393	80
44	44	78	78	4	1,630	4,990	766	2,820	379	168
68	68	76	76		1,241	4,700	828	3,470	866	161
33	33	70	70		2,800	8,370	1,187	4,560	732	181
22		108			403	1,210	108	420	56	36
51	51	102	102		1,990	6,640	971	5,060	1,028	175
42	42	90	90		2,640	8,829	1,292	6,098	1,048	179
44	44	102	102		3,255	10,874	1,676	8,174	1,365	246
35	35	88	88		3,245	10,979	1,714	8,666	1,440	267
38	38	85	85		2,741	9,297	1,343	6,301	1,054	196
69		111			2,299	5,236	490	1,701	197	43
46	46	98	98		2,664	8,304	1,084	4,771	725	132
45	45	77	77		2,044	6,326	787	3,317	454	108
74	74	88	88		2,444	7,740	1,039	4,397	677	142
57	57	142	142		2,465	6,679	752	2,846	354	72
50	50	117	117		2,373	5,676	605	2,257	271	60
62		120			1,522	3,717	390	1,431	170	41
62	62	140	140		2,616	7,205	869	3,317	461	81
56		80			972	2,379	255	940	104	31
22		52			330	591	46	130	10	9
66	66	82	82		1,823	6,526	880	3,841	643	124
42	42	86	86		1,211	3,631	382	1,333	142	70
48	48	88	88		2,460	7,826	904	3,263	403	165
71	71	83	83		1,907	7,625	1,113	5,371	979	206
49	49	88	88		2,585	8,906	1,225	5,820	973	183
79	79	79	79		2,047	7,539	1,027	4,664	781	162
49	49	87	87		2,632	10,301	1,522	7,639	1,389	268
34	34	90	90		2,718	9,756	1,517	7,457	1,282	271
80	80	95	95		1,053	3,985	530	2,359	406	83

85	85	129	129		1,970	6,660	819	3,370	470	86
67	67	68	68		2,664	9,307	1,282	5,627	999	175
22		87			378	799	80	328	46	14
43	43	92	92		2,930	9,080	976	3,980	537	130
43	43	72	72		3,690	12,130	1,520	6,870	1,098	206
43	43	79	79		2,920	8,980	1,290	6,010	958	178
37	37	105	105		3,790	12,940	1,810	9,920	1,640	260
42	42	84	84	8	2,920	10,790	1,580	7,970	1,338	224
46	46	66	66		3,220	10,480	1,271	6,200	991	178
42	42	76	76		2,580	8,480	991	4,970	712	142
48	48	84	84		3,100	8,780	852	4,080	480	148
49	49	76	76	1	2,400	7,510	940	4,850	795	158
34	34	80	80		2,860	10,030	1,191	5,840	1,043	167
74	74	89	89		1,780	6,640	912	4,840	964	198
42	42	92	92		3,450	10,000	1,052	4,420	659	152
28		265			896	3,172	428	1,832	233	59
24	24	220	220		1,249	5,287	754	3,426	616	70
40	40	153	153		1,787	7,736	1,179	5,922	1,079	191
29	29	147	147		1,308	5,672	890	4,387	784	173
23	23	389	389		1,932	8,193	1,174	5,369	919	86
10	10	238	238	2	1,522	5,044	545	2,086	370	41
29	29	126	126		1,163	5,279	874	4,669	945	170
27	27	143	143		1,301	5,772	967	5,066	1,032	167
34	34	230	230		1,444	6,366	976	4,867	935	151
21	21	324	324		1,467	5,909	819	3,614	624	62
26	26	150	150		1,227	5,553	952	5,160	1,119	184
35	35	156	156		1,579	6,868	1,135	6,016	1,236	220
33	33	149	149		1,213	5,608	945	5,024	1,044	189
34	34	155	155		1,089	4,676	765	3,948	788	122
31	31	143	143	3	1,339	5,562	898	4,815	961	157
31	31	182	182	1	2,510	9,727	1,565	8,011	1,490	233
46	46	212	212		1,111	4,271	612	2,525	436	94
31	31	141	141		1,084	4,510	742	3,605	731	144
34	34	157	157		1,218	5,112	853	4,076	835	141
32	32	158	158		1,509	6,221	1,082	5,125	1,114	188
26	26	147	147		1,512	6,135	1,021	4,911	996	200
12		173			681	2,503	345	1,416	233	60
28	28	163	163		798	3,497	523	2,317	443	93
15		143			418	1,369	170	650	89	36
36	36	167	167		2,022	7,788	1,204	5,445	1,038	185
31	31	151	151		1,469	6,249	1,009	4,804	1,035	180
27	27	146	146		1,422	5,580	910	4,108	847	159
9		172			608	2,149	282	1,127	198	48
31	31	170	170		928	3,736	574	2,545	510	101
30	30	138	138		698	2,847	426	1,865	357	74
25	25	208	208		1,343	5,341	823	3,691	722	98

31	31	166	166	1,422	5,523	884	3,916	823	111
8		105		245	805	106	449	96	27
10		139		335	1,150	152	673	135	30
40	40	160	160	1,462	5,943	925	4,386	884	167
39	39	139	139	1,555	6,268	978	4,707	989	186
34	34	153	153	1,415	5,762	907	4,333	890	166
45	45	152	152	1,152	4,797	778	3,734	801	141
46	46	184	184	1,540	6,192	998	4,814	1,008	189
44	44	189	189	1,745	6,956	1,089	4,985	969	177
30	30	155	155	1,636	5,638	816	3,530	618	174
42	42	152	152	1,531	5,943	930	4,483	892	183
45	45	117	122						
47	47	67	67	2,630	9,000	990	3,380	492	183
69		71		741	3,110	403	1,660	259	90
46	46	88	88	2,740	10,900	1,560	6,390	980	203
101	101	90	90	1,058	4,960	645	2,680	457	120
83	83	121	121	1,580	6,850	1,091	4,440	823	213
29		107		1,400	5,190	590	2,270	299	82
36	36	92	92	2,840	12,200	1,790	7,160	1,450	404
32	32	105	105	2,560	9,200	1,330	4,890	890	280
41	41	72	72	2,780	10,600	1,530	6,190	1,070	295
90	90	105	105	1,980	7,180	843	3,180	479	119
127	127	132	132	1,560	7,400	1,060	4,350	990	209
61	61	81	81	2,490	9,300	950	3,620	471	189
53	53	88	88	1,770	5,820	706	2,510	422	93
100	100	90	90	1,330	5,670	939	3,940	831	208
49	49	101	101	2,010	6,750	957	3,990	642	118
73		75		1,030	3,670	567	2,550	446	106
41	41	92	92	3,170	9,120	1,130	4,260	580	229
47	47	56	56	2,470	7,650	921	3,060	434	168
31		89		1,050	3,580	481	1,960	347	73
74	74	93	93	1,670	6,290	990	4,220	726	157
73	73	104	104	1,293	6,130	913	3,770	706	172
105	105	83	83	2,760	10,700	1,310	5,300	780	151
87	87	72	72	1,850	8,170	1,230	4,920	821	279
75	75	68	68	1,780	7,050	840	3,200	556	123
78	78	86	86	1,910	7,680	1,060	4,130	840	174
92	92	105	105	1,830	7,200	990	3,380	560	117
120	120	150	150	1,750	8,100	1,080	4,680	1,030	212
39	39	103	103	3,470	8,250	988	3,470	429	133
41	41	93	93	1,950	6,670	927	3,430	659	115
34	34	67	67	2,260	7,050	916	3,520	502	100
31	31	88	88	3,400	10,800	1,480	6,090	931	151
0		79		310	2,840	873	4,790	1,016	139

26	26	66	66		2,150	5,790	629	2,320	356	132
34	34	57	57		2,350	6,990	830	3,200	484	92
38	38	90	90		3,540	11,570	1,690	6,690	1,143	176
36	36	114	114		4,760		1,990	9,040	1,430	202
34	34	60	60		3,010	9,480	1,306	4,720	705	113
63		76			1,438	3,230	398	1,210	160	84
35	35	118	118		3,010	8,020	935	2,970	415	127
25	25	46	46	6	2,030	5,560	627	2,250	310	90
27	27	81	81	1	1,810	5,620	682	2,540	383	98
24	24	49	49		2,040	5,610	653	2,280	388	93
73	73	206	206		2,630	9,350	1,164	4,920	708	72
36	36	154	154		3,010	8,640	910	4,080	542	62
41	41	81	81	21	2,730	8,580	1,147	5,770	1,085	180
51	51	128	128		1,920	5,840	750	2,930	361	52
61	61	95	95		2,060	7,320	1,041	4,590	998	171
49	49	71	71	45	1,710	4,960	734	3,720	725	105
41		60			1,620	3,920	355	1,310	220	127
55	55	85	85	2	2,000	5,900	831	4,330	776	112
39	39	73	73	2	2,030	6,430	933	4,550	844	147
79	79	94	94		1,104	4,500	725	3,500	690	158
44	44	72	72	6	1,850	4,760	575	2,390	337	116
56	56	97	97		2,280	7,340	1,027	5,290	1,074	168
45	45	181	181	3	2,620	7,370	859	3,460	599	72
12	12	17	17	4	98	323	34	158	38	7

Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W
1,268	155	804	137	364	46	272	31	26	307	1
1,411	164	859	142	378	50	278	33	64	691	64
679	83	452	79	236	33	216	28	32	294	2
665	79	454	85	245	36	233	31	34	463	3
496	63	338	63	185	26	183	26	33	294	3
583	72	384	67	188	25	165	21	29	246	2
802	103	562	102	300	42	290	37	34	452	8
1,015	127	680	114	318	41	259	29	29	303	1
793	96	529	89	267	38	233	29	32	287	2
1,140	139	738	127	349	44	263	30	36	338	1
1,343	222	1,305	274	822	126	838	111	47	1,920	10
723	86	495	95	267	47	367	59	46	961	15
647	79	453	84	232	40	273	38	32	448	9
178	21	110	22	67	12	93	15	35	72	18
191	21	101	22	61	9	86	14	32	65	12
801	104	592	113	282	42	272	34	59	390	2
1,110	174	1,027	222	654	104	696	96	51	897	7
126	16	79	14	40	7	66	10	56	68	8
123	13	80	13	45	7	69	12	30	61	12
868	109	626	116	306	48	328	39	40	350	2
1,054	132	695	126	337	43	280	31	46	467	1
681	92	515	96	263	42	290	38	40	402	2
606	73	426	77	237	40	326	54	30	394	8
512	71	349	66	189	33	223	38	69	921	127
406	52	280	56	153	25	200	29	77	366	22
472	53	304	58	158	26	195	29	203	1,331	42
48	5	27	5	18	3	31	6	70	22	32
313	39	230	44	122	22	168	26	106	680	24
655	90	490	92	247	39	238	32	31	316	3
336	39	215	42	111	16	137	19	40	149	3
636	85	435	88	229	35	241	31	35	360	3
90	12	58	13	30	6	42	7	61	40	16
967		615	105	231		171	19	31	210	
794		530	91	242		217	24	29	456	
959		593	98	234		175	19	36	301	
838		533	89	222		191	23	32	311	
1,207		815	119	300		211	21	47	693	
523		373	68	181		192	24	27	349	
587		468	86	252		302	40	33	620	
697		531	95	262		302	37	44	964	
571		380	62	167		168	22	36	529	

553		395	68	176		178	23	32	361	
125		53	12	35		50	5	31	51	4
283		169	32	111		148	23	72	816	6
172		111	24	76		104	15	27	167	
102		40	9	51		59	8	47	125	
159		106	24	67		77	10	24	89	6
1,162		842	149	388		336	39	35	578	
945		711	122	320		271	33	32	431	
1,233		885	152	405		326	35	38	496	
1,050		774	127	357		306	37	31	447	
517		371	72	196		190	21	34	456	
160		111	20	60		69	9	23	126	
912		625	104	272		238	26	30	376	
812		553	94	243		219	21	27	425	
895		669	117	309		298	35	37	448	
1,578		1,113	181	421		328	37	38	481	
1,439		1,015	158	386		293	30	33	597	
116		63	11	32		41	6	38	24	
68		48	8	29		43	9	42	41	
94		70	13	36		60	9	54	83	
147		91	19	62		92	15	46	99	
286		245	52	160		241	36	103	1,244	
242		138	25	73		118	21	51	271	
115		76	14	48		75	13	35	90	
765		516	95	256		276	34	38	619	
646		464	80	226		265	34	33	601	
775		543	99	246		281	34	40	1,002	
94		63	16	36		50	10	16	25	
318		296	62	168		257	39	136	1,001	1
1,080		630	119	301		221	21	31	431	
169		85	21	53		85	13	26	133	1
910		594	118	310		324	33	37	679	
81		48	11	39		47	6	26	110	3
114		65	11	45		65	10	57	248	6
190		107	18	44		90	11	132	632	14
89		42	6	34		42	8	20	80	5
133		92	21	60		85	13	28	244	9
										12
176	23	133	28	101	19	135	18	95	287	7
204	22	124	26	93	15	119	17	41	349	9
76	7	34	6	20	2	17	2	32	315	9
153	18	104	21	79	15	104	17	94	247	10
121	13	76	16	66	14	110	19	53	186	19

40	5	27	6	28	6	60	13	11	157	20
298	44	254	52	159	26	197	26	51	776	6
149	17	104	18	58	10	77	10	26	434	5
118	12	71	17	66	13	109	18	68	328	10
82	8	39	7	16	3	16	2	19	374	8
369	49	297	61	190	30	208	26	96	741	11
120	12	73	15	61	12	92	14	65	416	12
84	8	38	6	19	3	17	2	24	381	9
217	24	136	28	90	16	123	17	37	328	10
133	15	85	21	75	15	115	17	40	187	7
32	4	23	5	17	3	20	3	9	181	2
65	7	33	5	12	1	10	1	9	360	8
96	11	57	10	28	4	24	3	20	392	9
195	20	120	24	90	16	123	18	44	281	9
260	36	226	49	169	27	181	24	39	286	8
78	13	77	18	66	13	105	16	45	402	2
38	7	40	9	27	5	38	7	9	169	2
181	21	118	25	85	14	115	15	39	256	9
84	9	58	14	49	9	81	12	56	141	2
23	3	19	4	16	2	18	3	13	132	5
244	32	209	44	146	23	162	21	117	541	6

74	10	57	14	50	11	107	20	561	1,159	34
43	6	45	9	31	6	64	12	107	177	7
183	23	143	29	87	16	132	22	184	951	30
26	3	23	7	28	8	98	20	143	311	9
										11
										1
										127

321	32	153	29	70	10	69	10	57	37	19
542	59	306	54	141	20	129	20	69	452	18
64	5	24	5	11	2	11	2	14	6	12
124	11	53	9	25	3	22	4	19	17	12
94	9	40	7	19	2	20	4	59	24	13
551	60	308	50	127	17	111	14	43	137	9
103	8	39	7	19	2	17	3	12	7	8
244	23	119	20	56	7	45	7	26	13	11
341	36	182	32	81	12	76	11	58	126	7
394	45	227	39	109	14	97	13	41	117	3
129	12	60	11	33	5	31	5	29	20	9
72	8	40	7	18	2	17	3	18	2	11
474	51	274	46	131	17	97	14	43	119	4
679	79	390	61	145	18	98	13	41	110	2
198	26	148	26	70	10	59	11	22	86	6
656	91	515	90	233	32	196	29	30	182	7
162	17	86	16	41	6	37	5	24	3	13
796	91	448	75	179	22	127	17	41	157	4

172	16	80	15	39	5	44	7	44	42	17
240	22	117	20	57	8	57	9	57	81	9
186	18	98	18	47	7	41	7	39	43	18
89	8	43	7	20	3	19	3	10	26	7
289		190	32	59		57	9	30	40	
375		250	46	83		93	12	17	74	
13		9	0	1		1	0	4		1
110		64	15	35		56	5	22	59	1
103		73	16	30		41	9	26	46	
241		138	24	63		65	7	77	64	2
560		282	52	79		134	6	24	82	
34		21	6	20		10	0	15	6	1
377		235	29	80		71	10	27	74	
107		68	11	29		32	7	23	15	
40		55	9	14		38	2	16		
5							2	5	4	
38		5	3	11		14	1	6		
126		92	13	51		59	11	58	146	12
303		171	34	92		83	7	27	124	
209		120	18	61		73	10	30	56	
173		87	17	50		76	8	23	59	
297		166	23	63		63	3	17	89	7
9		7		2				7		10
680		328	58	157		110	12	34	180	
4			0.1							3
12		5				1		1	3	3
343		320	70	110		140	11	72	140	38
66		24	5	15		6	0	13	11	
192		90	19	48		50	7	30	77	
327		184	27	67		57	6	29	77	
23		9	2	3			0	3		5
264		147	26	84		72	10	35	23	
226		127	17	53		60	8	17	102	3
242		161	24	64		66	7	24	156	
425		280	49	101		102	10	15	126	
106		55	9	33		27	3	13	46	
90		35	6	20		23	5	38	27	5
518		265	44	97		96	10	22	125	
539		268	46	101		79	7	35	87	1
106		46	9	20		25	4	21	41	
500		309	35	84		59	5	31	70	
514		246	38	115		95	5	31	111	
122		67	11	35		46	3	59	135	4
102		60	6	29		52	6	58	123	
602		305	48	115		81	8	21	159	

175		92	12	39		39	4	20	10	0
1,470		707	101	201		133	12	25	171	1
28		9		3		3		8	2	2
604	65	317	49	97	12	74	8	30	135	2
419	53	259	44	103	16	88	12	26	168	3
92	9	52	8	20	3	22	3	7	17	4
439	52	263	43	108	15	101	13	46	232	4
102	14	77	15	33	6	39	6	12	35	7
57	8	40	8	19	2	13	2	9	9	4
256	27	140	22	56	9	60	8	20	51	4
314	34	178	31	72	10	65	8	29	42	5
441	54	264	47	108	16	92	11	35	158	4
195	23	121	22	53	8	66	9	47	122	5
717	96	436	77	164	22	121	14	41	150	3
480	58	262	47	106	14	88	10	39	49	4
224	26	132	25	67	10	70	10	36	83	3
272	31	157	29	71	10	68	10	37	106	4
225	29	139	23	53	8	46	6	19	24	3
567	61	329	54	121	15	89	11	31	146	3
449	53	272	42	95	13	81	10	40	38	5
37	5	25	4	15	2	18	3	15	9	6
697	74	380	58	143	16	104	11	40	152	3
696		417	63	140		107	12	34	111	
833		481	72	152		115	10	47	183	
895		512	76	164		121	12	38	109	
667		387	61	140		104	11	37	112	
115		61	11	33		33	6	43	33	
451		303	49	126		106	14	45	133	
284		175	31	77		75	10	354	64	
438		279	45	120		99	12	36	134	
249		145	24	65		67	12	60	116	
183		104	18	46		53	8	39	59	
129		72	11	30		32	5	60	23	
295		192	31	79		80	12	63	175	
77		41	7	24		21	4	21	7	
4		3	1	2		7	1	12	3	
440		255	38	96		78	8	23	117	
99		55	10	29		31	4	20	41	
245		127	24	63		59	9	24	33	
668		395	62	135		107	13	22	136	
705		393	59	138		104	12	27	127	
574		367	58	149		118	14	36	141	
945		542	86	185		126	14	29	168	
816		469	73	146		112	11	33	162	
300		192	33	78		75	10	25	160	

361		190	36	84		87	11	43	107	
613		390	58	149		106	12	28	128	
25		18	4	9		7	1	12	1	
321	37	175	35	86	12	80	12	85	47	4
770	88	457	74	178	23	131	16	52	146	2
707	79	374	62	136	17	100	13	43	120	2
1,167	140	706	113	257	33	181	20	84	208	2
998	116	549	96	220	24	148	17	45	127	3
695	83	413	69	168	22	127	16	38	121	2
560	69	301	52	133	17	101	12	53	92	2
314	37	176	36	96	11	81	9	36	35	2
576	67	330	58	123	16	101	12	41	121	3
717	81	415	65	153	19	106	13	57	120	2
722	82	399	69	145	19	131	13	28	193	4
454	54	267	44	122	14	104	13	60	85	2
178	20	104	21	63	11	86	17	35	45	6
522	67	415	83	248	42	289	40	50	493	3
810	96	529	90	230	32	199	24	31	508	2
612	77	411	75	197	27	166	20	38	236	2
779	104	612	126	366	59	408	53	88	2,069	4
315	42	248	53	167	31	262	41	79	767	3
736	95	523	92	262	35	223	28	28	269	1
798	102	578	99	289	39	252	30	32	340	2
783	98	550	103	304	41	251	32	61	1,020	2
550	71	423	88	276	45	326	44	66	969	3
884	115	642	111	304	41	248	30	36	331	1
945	119	650	116	310	41	257	30	33	585	2
813	107	583	103	278	39	233	29	38	405	2
634	82	472	90	257	35	234	29	37	334	2
730	97	533	94	251	37	227	30	35	365	2
1,097	131	688	118	299	38	211	24	54	505	2
327		251	46	130		158	23	35	788	
548		396	68	182		185	24	27	311	
628		501	84	214		213	24	29	429	
797		617	108	273		259	29	32	374	
729		527	93	217		216	26	30	291	
192		139	27	84		125	20	38	209	
337		262	50	138		185	24	32	341	
69		39	9	23		34	8	20	28	
724		489	89	222		206	24	39	672	
716		559	95	237		232	26	33	404	
574		433	78	186		189	24	30	265	
143		115	24	64		103	18	34	178	
375		277	52	139		189	24	34	363	
254		219	42	135		157	24	30	321	
552		419	79	206		229	28	34	505	

571	429	77	194	212	24	29	387
75	51	10	25	32	6	11	17
113	83	15	40	50	9	17	32

636	460	77	207	188	22	42	609
707	460	84	206	200	25	31	371
666	433	76	184	172	20	28	302
594	382	71	186	183	24	33	379
754	487	86	212	206	25	43	540
726	504	91	225	211	26	41	802
383	271	50	124	134	16	51	131
623	399	68	164	171	21	26	347

5

339	173	32	86	67	6	38	93	2		
159	111	14	54	55	5	19	81	1		
657	362	56	149	114	15	34	106			
307	193	32	80	90	9	16	161			
552	359	53	112	101	11	27	148	1		
226	123	23	47	59	3	24	24			
870	480	71	167	107	5	87	91			
530	297	45	104	61	5	79	105	1		
630	333	54	118	84	10	87	84			
312	145	35	78	65	7	30	112			
610	340	64	192	145	17	25	177			
211	151	26	54	64	8	23	60	1		
260	140	25	57	60	8	46	85			
610	357	54	152	100	13	30	189	5		
455	283	45	113	88	12	26	118	1		
315	224	41	108	103	14	23	142			
399	275	38	98	104	10	50	64			
237	158	28	66	71	8	30	28			
240	143	19	56	37	5	27	7	1		
422	361	50	128	135	13	19	135			
519	335	52	133	105	10	28	155			
410	303	44	79	88	5	42	145			
438	222	31	69	54	4	29	84			
324	226	27	56	58	9	21	95	1		
387	268	50	95	101	8	27	83			
380	249	28	63	44	12	38	92	3		
640	360	56	131	115	16	34	205			
312	38	213	42	100	14	102	13	67	112	2
398	52	269	49	118	17	118	15	33	68	8
298	40	195	39	96	14	91	13	38	47	2
551	71	378	68	156	20	132	15	43	111	2
619	83	449	72	149	20	110	10	27	96	1

[illegible]

W mag	Pb	Th	U
1	12	622	120
64	179	1,072	580
2	9	466	167
3	11	512	167
3	8	393	179
2	8	360	164
8	10	423	184
1	11	555	119
2	11	526	164
1	13	662	128
10	7	144	161
15	7	244	272
9	2	91	149
	4	199	316
	5	196	292
2	9	583	175
7	5	120	209
	9	248	363
	6	154	218
2	8	559	158
1	14	837	123
2	9	522	175
8	6	148	236
127	24	620	1,305
22	6	252	467
42	10	326	427
	7	319	564
24	7	222	383
3	13	508	171
3	6	272	285
3	9	526	184
16	11	139	251
	10	484	73
	20	638	133
	8	538	80
	9	528	125
	15	761	85
	10	416	156
	8	346	184
	11	510	203
	12	632	151

	9	467	153
6	16	340	268
	1	385	495
	12	437	247
	11	770	573
	4	124	161
	13	765	143
	12	684	148
	12	708	127
	10	621	131
	4	141	180
	5	208	273
	9	585	158
	13	584	177
	10	619	156
	12	684	116
	22	769	189
11	437	609	
12	632	635	
7	401	656	
13	537	621	

	7	374	477
	6	168	190
	8	319	285
	9	491	190
	7	331	169
	11	595	179

1	4	154	242
	8	522	439
	9	807	163
	8	293	266
	4	495	148
	11	307	248
	7	271	242
14	9	494	411
	2	356	324
	7	602	314

7	7	123	122
9	12	192	130

	3	22	18
10	6	155	128
19	8	277	204

	9	242	194
	8	54	105
	4	85	76
10	8	247	191
8	2	10	13
11	7	245	195
12	41	215	153
9	2	28	18
10	6	152	133
7	16	184	154
	18	79	217
	3	4	7
	3	29	21
9	7	222	143
8	7	173	149
	23	77	58
	14	24	18
9	6	151	123
	12	84	49
	21	42	42
6	13	132	102

	8	242	317
	7	115	159
	70	248	263
	65	123	346

12
1
127

19	4	444	798
18	7	1,095	751
	5	169	182
	2	308	304
	3	127	82
9	4	627	414
	7	149	143
	3	319	231
7	4	550	242
3	3	529	147
	2	194	249
	2	165	187
4	3	465	155
2	3	335	70
	1	90	182
	1	67	178
	2	240	289
4	6	464	91

	3	410	577
	3	395	702
	3	401	489
	3	136	150
	7	319	88
	3	270	60
		8	66
1	1	295	189
	2	274	332
2	1	396	101
		460	153
	4	33	85
	2	471	146
	3	156	454
	1	113	330
		20	64
	1	64	315
		205	640
		361	151
	6	282	290
		283	263
7		242	74
	4	14	41
	1	436	98
	19	39	39
	1	10	78
	6	330	46
		161	58
	2	438	185
		321	124
	0	6	28
		251	72
3	4	365	187
		511	157
		294	94
		219	263
5		253	534
		358	130
1		267	84
		199	481
		226	72
		278	83
4	4	259	392
		222	544
	1	337	137

0		301	78
1		357	61
	1	109	336
	2	337	68
	2	470	132
	4	60	151
4	4	381	358
	1	62	128
	1	40	98
4	7	323	108
5	4	356	90
4	3	448	107
5	6	277	353
3	1	377	76
4	2	305	65
	2	394	188
	3	314	327
3	3	251	61
3	3	362	99
5	2	324	64
	3	51	214
3	2	335	134
	4	364	77
	24	533	66
	2	325	61
	12	412	71
	10	333	494
	7	378	150
	4	280	118
	5	392	90
	11	412	418
	5	335	443
	2	248	340
	4	447	418
	13	211	218
	3	37	59
	2	297	82
	3	187	89
	3	300	74
	3	314	88
	2	314	72
	7	348	99
	2	293	69
	3	297	72
	3	328	110

	5	303	278
	2	294	65
	5	55	65
4	3	354	66
2	3	442	78
2	1	352	76
2	2	429	77
3	2	348	61
2	2	449	75
2	8	403	74
2	2	396	85
3	5	408	87
2	9	345	69
4	3	555	109
2	2	482	73
	5	155	315
3	5	400	217
2	5	525	118
2	5	408	109
4	9	898	296
3	16	206	363
1	3	374	111
2	4	412	122
2	5	727	162
3	7	468	250
1	4	402	109
2	5	603	124
2	3	488	130
2	4	425	123
2	4	438	113
2	7	565	102
	8	574	228
	6	384	122
	8	342	105
	4	384	109
	4	382	115
	6	230	360
	6	398	195
	3	157	365
	6	484	100
	3	393	111
	6	368	137
	5	223	398
	5	428	221
	2	374	172
	5	362	145

3	371	132
3	14	164
2	28	196

4	491	128
6	427	115
3	404	114
5	415	152
4	453	114
6	644	149
13	444	134
4	403	118

4



2	3	263	88
		354	141
	1	362	72
	1	473	164
1	1	389	127
	4	349	500
		353	88
1	87	332	76
		331	78
	1	491	138
	1	540	149
1		421	103
	4	780	256
5		431	125
1		456	126
		435	121
	3	580	160
		303	65
	2	297	475
	6	507	141
		373	113
	7	540	123
		281	115
1	6	329	100
		351	86
3	9	419	220
		450	120
2	4	486	48
8	2	418	235
2	2	286	37
2	2	295	40
	2	17	0

1	4	233	33
1	1	246	26
	2	287	28
1	3	350	31
1	3	194	25
	3	179	181
4	3	545	88
1	3	197	27
3	4	339	94
1	2	229	28
24	3	418	487
9	3	682	244
2	3	454	63
9	2	224	307
3	3	489	82
3	3	380	60
	2	331	84
3	3	466	92
1	2	405	65
4	4	439	114
5	2	361	91
2	1	463	80
16	5	866	187

1	2	20	11
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127

Supplement Table C7. Replicate analyses of NIST-610 in ppm by LA-ICP-MS

Element	Li	B	Na	Mg	Al	Ca
Isotope used	7	11	23	24	27	44
	Li	B	Na	Mg	Al	Ca
Accepted Value	488	351				
Mean	486	348	99964	491	10927	82945
St Dev	22	121	2684	52	444	2280
Count (n)	56	56	56	56	56	56
	Li_ppm_m	B_ppm_m	Na_ppm_m23	Mg_ppm_	Al_ppm_n	Ca_ppm_m44
	519	381	#####	435	11240	#####
	486	305	#####	491	11150	#####
	466	386	#####	466	10340	#####
	455	356	#####	473	10530	#####
	503	336	#####	462	10820	#####
	495	356	#####	483	11420	#####
	466	367	#####	457	10940	#####
	504	377	#####	442	10690	#####
	516	343	#####	494	10990	#####
	456	363	#####	467	10520	#####
	496	332	#####	466	11060	#####
	499	365	#####	482	10880	#####
	468	353	#####	496	10500	#####
	478	364	#####	429	10860	#####
	480	367	#####	455	10740	#####
	459	353	#####	494	10770	#####
	512	329	#####	490	11010	#####
	491	363	#####	442	10620	#####
	453	343	#####	441	10450	#####
	515	399	#####	464	11170	#####
	482	343	#####	477	10800	#####
	482	336	#####	465	10800	#####
	492	369	#####	478	10800	#####
	475	377	#####	459	10800	#####
	494	305	#####	469	10790	#####
	480	410	#####	440	10800	#####
	483	353	#####	489	10800	#####
	481	340	#####	445	10800	#####
	499	371	#####	482	10790	#####
	473	350	#####	457	10800	#####
	468	220	#####	496	10550	#####
	533	440	#####	414	10320	#####
	459	520	#####	475	#####	#####
	515	280	#####	464	#####	#####
	528	800	#####	461	11420	#####
	457	550	#####	456	#####	#####

523	-140	#####	504	10200	#####
483	320	#####	459	10860	#####
463	600	#####	448	11310	#####
454	400	#####	459	#####	#####
494	410	#####	487	9780	#####
453	330	#####	451	#####	#####
517	630	#####	458	11970	#####
519	220	#####	476	10610	#####
479	263	105400	577	11330	83100
473	267	101600	563	11110	83100
476	267	102400	577	11180	84100
460	246	99990	568	10820	86200
476	263	100000	591	11200	85500
487	262	102500	596	10940	84900
468	275	101700	574	11540	87000
470	272	98900	592	11190	86300
469	251	102400	588	11850	86100
519	271	103000	587	11810	86700
509	283	103500	583	11150	83600
486	290	101300	608	11700	86600

Sc	Ti	V	Cr	Mn	Fe	Ni	Cu_ppm_r	Zn
45	47	51	52	55	56	60	63	66
Ni_ppm_m Cu_ppm_r Zn_ppm_m								
Sc	Ti	V	Cr	Mn	Fe	Ni	Cu	Zn
	437			457	458	459	444	433
450	470	444	415	478	680	451	375	453
24	81	13	22	21	573	10	7	32
56	56	56	12	56	56	12	12	56
Sc_ppm_n	Ti_ppm_r	V_ppm_m	Cr_ppm_m	Mn_ppm_	Fe_ppm_r	Ni_ppm_m	Cu_ppm_r	Zn_ppm_r
462	440	446		509	443			440
434	630	462		502	487			450
444	410	422		456	448			470
445	354	423		472	456			456
427	420	442		476	458			440
472	420	475		508	465			480
416	430	435		476	452			455
433	468	453		477	459			447
449	414	432		482	463			460
439	410	457		475	456			470
458	460	447		524	455			452
449	413	443		501	466			446
439	440	440		481	448			459
433	460	428		472	463			460
437	478	454		495	475			470
438	432	438		497	455			466
458	405	445		489	454			491
430	462	440		460	460			448
430	425	428		475	474			468
463	428	443		470	462			410
441	410	441		495	461			432
441	440	458		476	442			447
441	457	443		500	481			468
441	429	430		493	396			450
441	413	443		493	461			433
440	439	445		472	471			529
442	469	429		495	434			445
440	377	451		481	469			440
440	466	447		480	480			460
442	417	441		482	483			464
447	489	459		487	460			495
456	316	419		477	500			473
424	470	468		478	472			380
463	420	434		498	482			446
426	500	430		491	408			520
422	469	442		477	403			510

450	363	444		481	499			408
425	560	475		473	439			498
413	500	432		501	478			416
462	481	431		475	420			470
446	319	438		513	485			449
416	430	470		460	480			449
451	420	425		509	422			414
466	429	441		480	503			560
449	566	440	406	440.2	607	435	360	396
451	565	462	419	441.3	557	448	369	416
455	552	450	405	447	702	441	376	426
460	597	454	383	444.7	2900	461	375	411
462	640	442	395	459.2	2730	469	373.9	441
478	695	446	427	462	2202	456	381	451
488	625	446	412	461.2	1987	434	370	435
491	528	457	382	431.4	2048	454	386	429
524	480	452	431	433	1558	449	382	430
511	631	441	430	451	861	450	374	436
479	563	457	441	457.4	802	451	380	455
531	584	440	454	451	884	460	372.9	447

Ga	Rb	Sr	Y	Zr	Nb	Mo	Sn	Ba
69	85.0	88	89	90	93	95	118	138
Ga_ppm_m	Rb_ppm_r	Sr_ppm_m	Y_ppm_m	Zr_ppm_m	Nb_ppm_r	Mo_ppm_r	Sn_ppm_m	Ba_ppm_m
Ga	Rb	Sr	Y	Zr	Nb	Mo	Sn	Ba
	426	516						
434	424	520	469	455	437	413	404	443
19	15	16	38	31	34	19	19	24
56	56	56	56	56	56	56	56	56
Ga_ppm_r	Rb_ppm_r	Sr_ppm_r	Y_ppm_m	Zr_ppm_r	Nb_ppm_r	Mo_ppm_r	Sn_ppm_r	Ba_ppm_r
454	463	523	456	466	416	438	416	451
436	429	529	448	431	426	420	392	481
427	395	478	452	426	416	374	383	393
438	418	509	449	438	419	403	399	428
438	436	513	452	445	419	386	413	455
439	441	541	450	442	419	444	394	444
436	404	502	450	437	419	417	389	418
441	428	543	450	442	419	406	392	435
437	448	533	451	437	419	417	397	426
436	423	513	450	442	418	404	392	449
439	451	519	449	439	419	413	428	444
440	418	506	452	441	420	390	392	430
444	417	513	443	435	414	385	388	412
431	415	503	456	443	424	465	404	453
426	427	521	446	432	419	379	398	423
434	424	503	454	453	433	455	415	449
448	448	525	453	434	423	400	390	439
470	435	513	447	438	410	385	397	422
441	407	512	443	426	407	406	382	433
436	431	520	459	459	417	430	405	449
428	437	515	450	440	427	421	384	435
432	413	515	450	440	420	421	390	435
444	414	515	450	440	417	400	401	435
445	433	516	450	440	422	407	418	435
430	420	515	450	440	412	404	389	435
425	426	515	450	440	433	427	399	436
456	427	516	450	440	414	413	403	435
423	416	515	450	439	419	378	390	435
441	436	516	450	442	417	403	398	436
440	433	515	450	438	422	433	389	435
470	402	522	428	430	413	419	402	390
377	427	490	453	448	405	397	391	450
467	436	533	478	445	445	411	410	433
426	455	527	465	436	424	412	373	448
455	438	475	432	437	421	390	423	435
451	433	520	462	444	425	424	394	483

438	419	515	422	439	408	420	373	443
418	440	528	470	442	433	396	391	459
434	420	532	469	433	408	410	378	426
438	446	542	460	445	425	427	425	402
475	402	497	429	436	425	383	453	437
454	432	498	467	450	423	413	383	388
447	416	524	458	437	413	424	402	500
415	423	522	435	436	418	412	370	450
404	390.4	501	508	476	462	419	405	420
408	406.5	512	512	479	464	433	402	447
435	412.6	525	510	475	481	440	410	448
426	418.6	536	524	485	496	411	432	457
434	422.9	555	509	510	511	416.6	426	468
408	417	538	520	508	505	416	432	462
389	410.1	553	528	522	515	433	434	469
403	423	537	530	504	506	440	429	474
417	420	541	571	532	515	407	438	474
417	412.3	539	570	551	505	415	442	474
415	425	522	553	534	502	422.2	432	478
412	411.2	548	577	531	518	422	422	492

La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy
139	140	141	146	147	153	157	159	163
La_ppm_m	Ce_ppm_m	Pr_ppm_m	Nd_ppm_r	Sm_ppm_n	Eu_ppm_m	Gd_ppm_r	Tb_ppm_m	Dy_ppm_m
La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy
459	452	436	443	465	463	455	465	447
16	15	15	30	33	15	25	31	41
56	56	56	56	56	56	56	26	56
La_ppm_n	Ce_ppm_r	Pr_ppm_r	Nd_ppm_i	Sm_ppm_	Eu_ppm_r	Gd_ppm_i	Tb_ppm_m	Dy_ppm_r
471	462	435	464	473	454	427		430
458	469	445	425	491	484	498		423
457	430	402	407	417	445	429		411
433	424	417	440	420	452	420		397
484	448	454	425	442	457	464		477
464	463	455	430	471	463	470		460
443	437	413	445	438	497	423		424
446	466	449	411	443	452	434		421
450	441	439	428	485	474	450		458
458	450	419	437	456	441	421		382
485	466	431	451	440	456	451		482
447	455	434	420	488	449	446		445
464	431	437	440	434	479	433		415
454	437	414	424	424	461	465		397
454	453	429	438	443	458	436		419
464	461	439	425	456	457	455		451
455	454	427	439	470	474	441		426
457	443	429	412	442	459	439		435
451	430	431	411	429	448	431		406
462	457	430	464	467	474	459		443
457	433	430	435	450	461	444		427
457	447	430	431	453	461	444		427
457	454	430	431	456	461	444		427
457	460	430	433	443	461	445		427
457	440	430	426	456	461	443		427
457	452	430	443	449	461	444		427
457	446	430	430	456	461	444		427
457	448	430	427	440	461	444		427
457	450	430	446	461	462	445		426
457	448	430	421	445	461	443		428
416	454	421	387	423	456	411	425	413
458	447	427	433	469	447	463	437	438
488	450	440	479	490	481	453	456	425
466	466	431	508	451	474	455	439	440
485	434	428	386	477	461	457	447	411
439	425	432	464	433	452	458	453	437

444	449	429	450	429	461	462	455	420
474	448	430	441	435	463	410	440	438
463	481	433	424	483	444	445	443	442
466	447	426	472	445	496	456	450	442
446	451	433	382	421	454	432	424	412
480	413	419	425	473	445	454	451	422
427	481	440	461	445	468	446	430	447
452	443	427	421	460	467	441	446	400
433	436.9	428	425	486	433	454	451	488
434	440.3	432	437	486	432	459	450	484
441	459.1	445	428	510	449	470	464	488
466	475.4	461	491	518	467	509	483	518
469	459.2	462	493	541	481	514	494	509
466	463.6	462.7	481	518	474	500	489	514
474	473	470	497	526	492	515	501	527
459	478.4	453.4	470	516	474	489	495	525
491	472	462	497	525	486	507	528	550
487	462.4	461	498	526	474	487	525	540
472	461.8	463	471	510	474	484	499	507
488	465.6	466	503	526	487	496	521	546

Ho	Er	Yb	Lu	Hf	Ta	W	Pb	Th
165	166	172	175	178	181	182	208	232
Ho_ppm_r	Er_ppm_m	Yb_ppm_m	Lu_ppm_m	Hf_ppm_m	Ta_ppm_m	W_ppm_m	Pb_ppm_r	Th_ppm_m
Ho	Er	Yb	Lu	Hf	Ta	W	Pb	Th
							426	457.2
467	450	470	469	451	442	470	449	423
36	46	57	50	33	26	37	18	16
56	56	26	56	56	56	56	56	56
Ho_ppm_r	Er_ppm_n	Yb_ppm_r	Lu_ppm_n	Hf_ppm_n	Ta_ppm_r	W_ppm_n	Pb_ppm_r	Th_ppm_r
456	431		482	440	437	468	471	434
453	456		424	454	426	453	456	427
430	402		433	417	434	414	403	410
455	421		443	431	431	444	448	413
462	425		453	438	431	469	460	439
469	459		445	439	439	491	480	421
424	412		441	431	429	443	441	410
452	424		443	439	434	463	422	438
441	430		455	432	428	462	460	420
446	428		439	438	436	452	388	456
469	435		443	435	432	481	476	463
451	411		461	436	428	468	478	403
445	426		407	437	422	446	396	448
441	440		490	432	444	419	482	388
443	420		471	431	429	448	439	440
462	438		471	439	432	459	457	428
443	423		473	438	438	451	441	424
447	423		400	431	424	451	446	435
450	428		380	435	433	448	438	420
450	426		441	440	435	456	450	433
449	426		469	435	432	452	441	408
449	426		451	435	432	452	445	434
449	426		454	435	432	452	448	412
449	426		450	435	432	452	449	423
449	426		433	435	432	452	437	430
449	426		462	435	432	452	450	428
449	426		422	435	432	452	445	428
449	426		460	435	432	452	445	424
449	426		449	435	432	452	436	435
449	426		443	435	432	452	454	419
438	420	400	437	438	407	460	437	405
437	415	418	429	419	397	434	451	448
481	437	437	461	444	498	470	444	418
447	439	432	453	425	445	455	445	410
444	447	434	449	436	409	442	448	429
460	429	425	457	457	431	471	434	433

456	421	422	434	436	447	445	451	409
439	437	433	458	430	451	443	445	446
441	396	411	429	434	406	446	447	454
448	436	412	466	453	434	469	452	417
454	427	418	450	440	432	446	445	426
458	409	430	442	429	451	483	442	432
454	437	421	456	439	447	439	440	428
433	439	400	432	421	418	442	446	387
502	522	489	500	459	435	495	441	393
503	525	493	487	461.8	425	495	458.4	406
505	518	499	524	477	445	504	471	414
537	502	520	540	506	490	531	449	393
525	524	530	545	514	501	552	456	413
518	543	524	534	507	503	531	466	417
550	528	540	552	522	503	547	465	429
532	511	527	557	514	484	519	469	425
549	555	563	591	544	496	549	457	416
568	566	557	603	544	493	561	478	415
526	543	531	576	507	470	537	474	413
557	573	559	597	538	491	575	461.2	410

U	
238	
U_ppm_m238	
U	
461.5	
469	461
27	8
56	56
U_ppm_m238	
452	473
486	463
444	452
434	462
468	460
484	466
451	457
454	462
473	463
458	459
461	463
462	461
439	456
460	466
456	453
456	470
464	472
450	465
455	458
466	459
457	462
457	461
457	462
457	461
457	462
457	461
457	461
458	463
457	461
425	457
501	474
478	454
439	461
453	463
459	461

466	462
456	461
472	463
428	461
465	462
494	454
451	472
439	461
476	433
480	453
482	447
497	446
505	477
499	467
519	447
515	458
536	461
542	470
510	489
546	467

Supplement Table C8. Replicate analyses of titanite MKED in ppm by LA-ICP-MS

		Li	B	Na	Mg	Al	Ca
Reported Value					140		
Mean	2348	5	68	299	179	7,681	212,707
St Dev	167	9	72	82	57	402	15790
Count (n)	12	37	37	37	37	37	37
		(3)	72	307	179	8,378	218,927
		1	40	311	188	8,312	222,184
		1	15	336	171	7,701	204,220
		11	27	320	481	7,851	198,100
		(4)	27	306	180	7,146	192,277
		6	107	323	157	8,359	219,420
		1	35	297	188	7,155	199,482
		(0)	72	295	175	7,137	197,409
		(10)	40	315	165	7,419	205,404
		(8)	59	313	169	7,193	196,422
		1	23	315	171	6,920	194,053
		(6)	(2)	322	171	7,212	205,306
		11	22	302	173	7,466	200,963
	2480	13	120	300	222	7,540	187,000
	2510	14	96	260	202	7,840	189,000
	2330	16	210	570	189	7,810	214,000
	2129	20	260	260	201	7,960	201,000
	2410	17	110	30	182	7,310	200,000
	2500	15	120	190	197	7,430	194,000
	2590	16	130	190	197	7,760	203,000
	2415	16	150	390	196	7,530	218,000
	2170	18	170	390	198	7,330	204,000
	2090	18	190	310	191	7,600	228,000
	2183	19	150	390	209	7,500	203,000
	2370	16	190	470	186	7,080	209,000
		0	10	274	140	7,677	222,000
		(0)	10	270	137	7,685	219,000
		(0)	8	278	136	8,130	239,100
		0	9	272	149	8,386	243,200
		0	8	275	136	7,640	223,000
		(0)	7	273	138	8,002	229,300
		(0)	9	267	135	7,790	232,000
		(0)	8	270	139	8,364	238,400
		(0)	5	276	137	7,896	226,500
		(0)	10	269	135	7,896	233,700
		(0)	8	270	140	8,100	233,800
		0	8	276	158	7,700	226,000

Sc	Ti	V	Cr	Mn	Fe	Zn	Ga	Rb
0.9		326	35	160				
2	222,568	344	35	162	10473	7	22	0.0
1	23583	18	2	7	2935	10	10	3.0
37	37	37	12	37	37	37	37	37.0
2	220,182	348		166	10,599	0	19	-4.9
2	219,897	368		163	10,525	0	14	-4.8
2	223,878	343		155	10,395	0	18	1.3
2	216,011	366		164	10,525	0	12	9.5
2	208,049	347		163	10,154	0	10	-2.5
2	216,580	339		160	10,173	0	15	-0.6
2	231,082	348		166	10,043	1	17	-9.5
3	204,922	355		172	9,737	0	5	-1.9
3	195,254	354		171	10,377	0	20	8.4
1	200,088	354		167	10,210	0	16	-0.6
2	204,732	344		159	10,099	0	19	-0.6
2	208,049	371		157	10,367	1	16	-1.0
2	220,276	353		158	10,219	0	20	5.3
1	228,000	380		152	9,880	(5)	12	0.0
2	221,000	341		159	9,750	(9)	14	0.1
1	198,000	344		168	11,380	9	14	0.1
3	200,000	365		177	10,110	1	18	-0.3
1	234,000	358		161	10,620	(9)	17	-0.3
4	233,000	340		144	9,420	(4)	16	-0.2
3	205,000	349		164	9,770	2	13	-0.2
1	201,000	372		148	10,340	4	15	-0.3
1	220,000	378		163	10,400	4	16	-0.1
3	208,000	352		180	10,180	(4)	19	-0.2
1	221,000	317		170	10,860	9	17	0.0
4	187,000	341		172	10,450	6	14	-0.1
1	220,370	326	34	163	6,438	19	37	0.0
1	224,406	327	31	157	7,003	17	38	0.0
1	267,995	323	39	157	6,378	22	35	0.0
1	280,104	320	37	157	6,107	21	33	0.0
1	223,599	333	32	161	7,160	19	40	0.0
1	239,743	318	34	153	21,598	17	36	0.0
1	256,694	323	36	161	17,310	20	36	0.0
1	293,019	324	34	165	14,516	18	33	0.0
1	249,429	324	35	163	13,829	21	33	0.0
1	201,804	335	34	161	14,103	21	33	0.0
1	205,033	328	37	157	10,345	22	35	0.0
1	247,815	330	38	163	6,132	22	33	0.0

Sr	Y	Zr	Nb	Mo	Sn	Ba	La	Ce
	875	236	923	6	218	0	467	2134
7	918	225	815	5	216	0	515	2185
1	62	24	85	2	12	0	44	99
37	37	37	37	37	37	24	37	37
7	1,069	296	830	5	257		612	2,412
8	1,033	263	800	6	209		588	2,250
7	944	237	824	5	231		579	2,384
8	908	183	743	7	211		465	2,048
7	890	202	728	5	195		491	2,132
7	1,072	248	786	12	217		589	2,290
6	888	214	794	4	217		518	2,120
7	903	209	744	7	210		517	2,181
6	951	208	761	3	221		528	2,247
6	882	189	751	6	217		537	2,211
6	866	204	700	(2)	207		510	2,125
6	898	196	710	3	211		528	2,156
6	905	203	756	6	195		535	2,173
7	892	234	768	5	221	-	539	2,300
9	836	229	774	5	211	-	566	2,380
6	945	219	799	6	210	-	547	2,160
7	990	225	696	4	225	-	523	2,120
6	990	251	798	4	215	-	558	2,230
6	957	224	703	6	215	-	537	2,220
7	929	199	743	4	215	-	531	2,090
8	988	188	734	4	203	-	535	2,310
7	937	220	776	5	219	-	524	2,240
6	983	231	775	6	191	-	536	2,380
7	920	211	850	6	232	-	500	2,010
6	904	202	747	5	224	-	562	2,080
8	844	228	869	6	212	(0)	448	2,119
8	843	214	881	5	219	(0)	443	2,114
8	919	241	916	6	211	(0)	487	2,124
8	983	262	990	6	220	(0)	499	2,127
8	844	219	910	6	228	(0)	453	2,183
9	861	236	913	5	213	(0)	468	2,110
9	846	240	921	7	215	(0)	466	2,074
9	851	241	938	6	216	(0)	474	2,135
8	872	250	958	6	230	(0)	464	2,170
8	851	236	916	6	220	(0)	460	2,140
8	906	234	914	6	210	(0)	476	2,121
8	879	230	951	6	220	(0)	467	2,190

Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
351	1742	375	69	304	44	246	43	108
360	1748	361	67	290	43	234	41	98
21	105	22	3	24	2	15	3	9
37	37	37	37	37	24	37	37	37
418	2,042	395	74	341		244	49	109
392	1,882	377	69	333		253	44	106
391	1,790	375	70	293		230	41	91
338	1,578	333	62	265		218	36	90
348	1,609	322	62	269		200	39	87
395	1,946	375	72	318		265	46	102
347	1,808	391	63	256		228	37	94
350	1,760	342	68	287		232	39	90
358	1,738	358	71	264		218	40	91
360	1,678	332	65	246		214	37	91
348	1,651	328	64	277		226	35	92
347	1,593	324	66	268		206	37	82
351	1,686	352	65	264		226	37	86
390	1,730	328	65	286	43	215	39	95
382	1,730	352	66	272	41	231	39	94
391	1,600	384	69	289	40	236	43	91
362	1,790	388	73	272	42	233	42	101
372	1,760	361	69	310	39	227	39	95
351	1,910	326	72	286	42	226	41	90
375	1,670	325	65	298	40	230	37	93
372	1,710	350	64	306	42	220	41	89
326	1,900	348	69	292	43	238	40	97
340	1,820	361	66	272	42	231	42	92
331	1,660	367	62	270	39	222	38	90
384	1,730	359	66	243	39	223	39	92
338	1,608	375	67	291	42	242	41	106
340	1,632	367	66	291	43	243	42	101
349	1,749	387	70	284	45	247	43	112
367	1,815	392	72	315	48	260	47	118
345	1,672	372	68	316	44	245	41	104
361	1,753	370	71	314	46	245	44	104
357	1,797	374	69	313	43	245	42	108
352	1,839	386	70	314	44	251	44	116
357	1,813	382	69	323	45	252	43	108
347	1,765	365	67	296	44	243	43	106
349	1,776	368	68	305	44	243	43	104
347	1,686	363	66	287	44	235	43	109

Tm	Yb	Lu	Hf	Ta	W	Pb	Th	U
13	71	7	14	71		50	369	131
13	67	7	13	66	0	50	363	127
1	5	1	2	6	0	3	26	8
24	37	37	37	37	37	37	37	37
13	73	8	16	75	0	57	427	136
	74	8	12	67	0	51	393	128
	73	6	17	74	0	58	424	140
	56	6	15	58	(0)	46	317	115
	56	6	12	61	0	47	332	115
	69	8	14	70	0	47	417	126
	64	6	12	61	0	46	339	119
	66	6	11	63	0	47	343	125
	69	6	13	59	0	51	358	123
	65	5	13	61	0	50	337	125
	65	7	12	57	0	47	328	120
	58	6	12	54	0	47	337	124
	63	6	14	60	0	52	333	123
	65	7	15	63	0	54	376	127
	63	6	16	66	1	53	346	135
	66	6	13	63	0	50	353	125
	68	6	16	67	-	49	337	118
	66	6	12	63	0	48	367	143
	67	6	14	63	0	47	368	119
	63	7	14	60	0	47	374	119
	64	7	13	62	0	49	377	119
	68	6	10	63	0	56	378	131
	68	6	13	67	0	51	373	130
	68	6	9	67	0	46	354	110
	63	7	14	55	1	48	323	118
	68	6	14	69	1	51	352	130
	68	7	12	67	0	50	357	129
	77	7	15	68	1	49	383	126
	79	7	14	77	1	51	396	130
	67	6	15	73	0	51	373	134
	68	7	15	71	0	47	362	126
	69	7	14	71	0	51	362	135
	70	7	16	71	0	49	368	128
	72	7	14	74	0	55	373	135
	70	7	14	71	0	50	357	130
	72	6	12	69	1	49	377	133
	73	7	14	71	0	53	368	137

Spandler et al. 2016

Supplement Table C9. Replicate analyses of NIST-612 in ppm by LA-ICP-MS

	Li_ppm_m	B_ppm_m	Na_ppm_m	Mg_ppm_r	Al_ppm_r	Ca_ppm_r	Sc_ppm_r
Element	Li	B	Na	Mg	Al	Ca	Sc
Isotope used	7	11	23	24	27	44	45
Accepted Value	40	32					
Mean	33	66	99,160	65	10,804	83,413	28
St Dev	29	85	5,603	32	727	5,074	17
Count (n)	40	40	40	40	40	40	40

Individual analyses

	Li_ppm_m	B_ppm_m	Na_ppm_m	Mg_ppm_r	Al_ppm_r	Ca_ppm_r	Sc_ppm_r
	26	76	92,400	57	10,090	79,500	31
	19	69	101,000	91	10,740	83,500	31
	19	61	94,200	80	9,420	82,700	35
	18	81	89,800	67	9,520	82,200	53
	200	580	119,000	200	9,500	64,000	70
	17	61	95,000	101	9,580	69,300	35
	15	45	94,600	94	10,010	78,100	27
	16	47	99,200	93	9,980	83,400	35
	15	54	93,200	80	9,600	73,300	31
	18	83	92,900	77	10,450	82,500	43
	20	82	103,000	78	11,200	87,700	28
	17	52	86,100	47	9,410	78,400	21
	17	59	98,200	83	10,490	83,200	32
	15	39	94,700	47	9,980	82,200	35
	16	64	95,000	77	10,020	83,000	33
	22	53	96,200	37	11,270	83,900	5.4
	28	47	95,000	28	11,680	87,400	4.7
	24	58	97,000	29.9	11,720	90,100	6.6
	36	68	97,600	36	11,630	86,000	8.9
	33	60	98,100	30	11,140	83,900	6.6
	25	41	98,300	19.7	11,460	83,600	4.5
	23	49	99,100	37	11,190	84,900	5.7
	29	76	99,200	35.2	11,100	84,600	5.6
	29	72	98,000	33	11,210	91,200	6.5
	30	87	101,000	36	11,480	87,700	9.6
	22	61	97,500	29	11,620	87,600	6
	23	51	97,700	34.4	11,530	84,900	6.3
	24	53	96,600	31.2	11,010	86,800	4.8
	43.2	36.1	103,800	75.2	11,080	83,200	41.6
	42.4	33.4	104,400	81	11,240	86,700	41.1
	41.9	36.7	103,300	78.2	11,220	84,900	40.8
	42.6	34.9	103,300	74.7	11,080	84,900	39.5
	41.1	36.7	104,700	76.2	11,330	84,900	43.3
	41.6	31.2	103,400	75.6	11,040	84,300	40.8
	38.7	31.5	103,900	77.1	11,300	86,700	40.8

43	35.5	105,400	83.7	11,050	85,900	39.4
41	32.7	103,200	71.1	11,190	83,600	41.5
40.9	38.4	105,800	76.4	11,260	85,500	40.7
45.9	32.3	103,500	75.4	11,280	87,000	40.1
42.6	37.3	102,500	83	11,050	83,300	42.1

Ti_ppm_m	V_ppm_m	Cr_ppm_m	Mn_ppm_m	Fe_ppm_m	Ni_ppm_m	Cu_ppm_m	Zn_ppm_m	Ga_ppm_m
Ti	V	Cr	Mn	Fe	Ni	Cu_ppm_m	Zn	Ga
47	51	52	55	56	60	63	66	69
50.1		35	37.7	51	38.8	37.7		
50	25	36	29	52	39	37	40	21
84	17	1	23	44	2	1	55	23
40	40	12	40	40	12	12	40	40

Ti_ppm_m	V_ppm_m	Cr_ppm_m	Mn_ppm_m	Fe_ppm_m	Ni_ppm_m	Cu_ppm_m	Zn_ppm_m	Ga_ppm_m
54	27.4		42	37			64	13
57	39		64	41			50	17
66	35.3		34	45			42	15
64	43		54	46			56	15
550	23		-50	300			360	140
63	30		27	44			53	20
44	38.2		42	28			46	13
43	44		53	40			56	13
48	36.7		58	27			38	13
67	30		46	42			52	18
73	34		56	47			68	17
68	30.8		47	33			43	12
60	41		37	35			38	16
47	34		49	37			44	12
46	41		63	37			42	17
8.2	1.7		7.1	48			4.3	2.8
16	0.96		6.9	38			9.2	3.2
3.4	1		5.1	51			1.4	3
14	1.9		6.2	64			16	8.2
10	1.5		8.2	69			11	4.5
16	1.6		5.3	53			6.6	2.6
4	0.99		6.9	42			5.1	2.8
11	2.1		7	47			6.7	4.2
18	2		9	59			5.4	4
15	1.8		7.1	84			9.8	4.5
9.6	0.72		6.8	38			8	3.3
5.2	1.6		7	43			7	3.1
8.3	1		6	40			6	2.7
46.2	38.7	34	36.6	65	35.6	36.1	36.4	36.2
41.7	40	36.3	38.3	66	39.2	37.7	34.7	35.7
45.5	38.1	36.6	38.8	-11	39.4	36.2	39.7	36
43.9	39.3	35.9	38	26	41.4	35.3	36.9	36.2
44.7	38.9	36.4	37.8	75	38.6	38.7	38.1	35.6
43	39.2	35.6	37.9	49	38.9	37.9	44.1	36
44	39.2	36	37.7	54	39.1	37.8	38.4	36.4

44.5	38.6	36.3	38.7	51	40.1	36.7	37.5	35.9
44.3	39.1	35.9	37.9	37	39.2	37.3	39.3	35.7
43	37.7	33.7	36.3	75	41	37.2	37.5	34.9
44.2	39.4	35.8	37.8	73	38	35	34.5	36.5
44.5	40	38.3	39.4	17	36.4	36.8	39.4	36.3

Rb_ppm_n	Sr_ppm_m	Y_ppm_m	Zr_ppm_m	Nb_ppm_r	Mo_ppm_l	Sn_ppm_r	Ba_ppm_n	La_ppm_r
Rb	Sr	Y	Zr	Nb	Mo	Sn	Ba	La
85.0	88	89	90	93	95	118	138	139
31.4	78.4							36
28	65	24	22	24	30	21	26	23
23	20	17	17	18	31	15	18	16
40	40	40	40	40	40	40	40	40

Rb_ppm_n	Sr_ppm_m	Y_ppm_m	Zr_ppm_m	Nb_ppm_r	Mo_ppm_l	Sn_ppm_r	Ba_ppm_n	La_ppm_r
29	72	28.2	36	24.4	28	26	25	33
35	80	31.2	22.6	18.8	11	30	31	30
41	73	35.8	31.5	26.7	34	28	28.2	34.9
26	82	35.8	23.4	26.6	18	18	31.6	27.9
160	94	28	3	51	190	10	53	38
27	77	36	22.5	31.1	33	15	33.2	31.8
31.2	61.6	39.2	30.1	26.8	25	20	39	28.9
36	84	37.1	49	32.9	36	23	39.1	32.3
31.5	74	26.1	22.5	34	55	28	33.6	32.8
30	91	28.3	28	39	46	28	38	28.2
24	93	33.9	38.1	38.9	53	30	44	29.4
30	67	26	26.3	30.6	49	23	35.1	31.5
28	79	35.9	36	28.2	41	3.5	38	34
28.4	65	28.8	33.9	27.7	21	26	31.3	32
30.6	76	31	28.7	36	52	28	38	36.8
11	39.3	0.068	0.068	0.24	2.4	2	0.83	0.044
9.5	41.9	0.059	0.06	0.33	2.7	2.5	0.59	0.037
9.3	41.3	0.075	0.059	0.12	4.1	3.1	0.83	0.042
14	34.1	0.16	0.5	0.57	4.9	3.8	1.1	0.12
11	39.2	0.37	0.12	0.63	5.8	4.1	0.93	0.029
11	44	0.1	0.12	0.24	3.1	1.9	0.94	0.022
12	34.9	0.067	0.13	0.23	4.3	3.2	1.2	0.046
15	34.2	0.086	0.12	0.83	4.5	3.6	0.97	0.14
14	36.7	0.29	0.19	0.38	7.1	3.6	1.2	0.15
21	38.3	0.18	0.26	0.47	6.9	3.8	1.1	0.13
9.4	36.2	0.065	0.32	0.15	3.2	3.2	0.99	0.057
11	33.9	0.068	0.1	0.2	3	2.3	0.83	0.052
11	39.9	0.076	0.13	0.15	4.2	3.4	0.79	0.048
31.06	77.2	36.2	36	38.2	37.9	35.5	39.2	35.5
31.9	78.1	37.9	39.7	41	37.9	38.9	38.5	35.7
31.4	79	38.8	38.7	39.9	38.2	38.4	41.5	36.2
31.69	78	39.7	38.6	40.1	38.3	41.3	40.2	36
30.8	78.7	37.4	38	40.1	37.7	38.3	40.6	35.9
31.7	80.1	39.5	38.1	41.4	38.2	38.1	39.3	35.2
31.61	78.7	38.4	37.4	40	37.9	37.7	39.2	36.1

31.28	78.1	38.4	38	40.1	37.8	39.1	39.6	36
31.3	78.4	35.6	39.7	40.6	38.2	37	40.6	35.7
31.38	76.6	39.7	37.2	40.2	38.3	38.4	40.2	35
31.3	79.8	40.1	36.7	39.4	37.7	38.3	37.9	36.8
31.58	78.1	36.6	39.4	39.5	37.9	36.7	40.6	35.8

Ce_ppm_n	Pr_ppm_m	Nd_ppm_r	Sm_ppm_l	Eu_ppm_n	Gd_ppm_n	Tb_ppm_m	Dy_ppm_n	Ho_ppm_n
Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
140	141	146	147	153	157	159	163	165
39		36	39	36	39		35	
24	23	17	20	22	18	36	19	23
17	18	15	16	16	16	1	15	17
40	40	40	40	40	40	12	40	40

Ce_ppm_n	Pr_ppm_m	Nd_ppm_r	Sm_ppm_l	Eu_ppm_n	Gd_ppm_n	Tb_ppm_m	Dy_ppm_n	Ho_ppm_n
29.7	35	21	32	36.3	38		19.4	28.6
29.9	35.9	8	37	29.2	9		24	31.1
42	35.4	22	19	23.6	13		15.2	35.5
30	33.6	15	23	29	4.6		24	25.9
16	-8	1	34	29	5		8	29
36.7	35.2	21	27	29.6	24		16.3	34.5
34.3	31.5	24	27	40.2	22		26	30.2
27.1	42.8	33	2.5	35.3	9.7		20.4	34.3
30	33.9	21	20	34.1	11		27	31.7
37.8	36.4	17	25	28.6	25		17	26.1
35.1	38.7	16	20	29.4	37		26	40
33.9	26.8	10	11	21	8		31	38.3
30.2	28	10	2	23.9	16		21.7	27.3
36	32.2	27	32	29.1	32		19.9	30.4
34.1	36.5	12	15	30.8	24		17.3	34.6
0.0063	0.04	0.24	0.071	0.035	0.11		0.19	0.037
0.0056	0.035	0.18	0.056	0.035	0.087		0.14	0.031
0.0048	0.033	0.23	0.072	0.033	0.11		0.18	0.042
0.0049	0.13	0.31	0.88	0.091	0.26		0.36	0.076
0.02	0.16	0.33	4	0.07	0.24		0.37	0.15
0.023	0.034	0.28	0.27	0.066	0.16		0.1	0.047
0.045	0.1	0.26	0.3	0.066	0.61		0.22	0.046
0.047	0.044	0.22	0.29	0.061	0.23		0.22	0.094
0.085	0.069	0.32	0.5	0.097	0.38		0.29	0.13
0.17	0.086	0.41	1	0.18	0.56		0.3	0.12
0.062	0.033	0.17	0.36	0.059	0.23		0.1	0.037
0.055	0.033	0.14	0.29	0.046	0.24		0.096	0.013
0.059	0.037	0.16	0.6	0.048	0.28		0.59	0.0089
39.5	37.1	34.7	37.6	34.3	34.8	35.7	35.1	37.4
38	36.7	35.4	38.4	34.9	36.9	36.1	37	38.8
38.8	37.4	38	37.8	35.2	38.7	35.7	35.4	38.2
38.5	37.2	34.7	38.6	35.3	34.4	35.9	35.9	37.5
39.1	38.1	35.1	39.5	35.2	38.4	36.7	37.5	38.6
38.4	36.7	38.8	36.6	35.3	35.9	36	35.5	37.9
39	37.6	40.8	38.5	36	38.7	37.1	37.2	38

38.4	37.7	32	39.6	34.6	37	35.2	35.1	37.6
38.8	37	39.1	37.6	34.5	37.2	36.6	35.4	38.4
39	37.2	36.5	38.1	33.9	37.6	36.4	36	38.4
38.4	38	35.4	36.6	36.7	33.6	35.9	37.5	37.8
38.7	36.2	34	39.5	35.3	37	35.5	35.5	37.7

Er_ppm_m	Tm_ppm_r	Yb_ppm_r	Lu_ppm_r	Hf_ppm_r	Ta_ppm_r	W_ppm_r	Pb_ppm_r	Th_ppm_r
Er	Tm	Yb	Lu	Hf	Ta	W	Pb	Th
166	169	172	175	178	181	182	208	232
39		42					38.57	37.79
20	38	21	22	21	24	24	23	23
16	1	16	16	15	17	17	17	17
40	12	40	40	40	40	40	40	40

Er_ppm_m	Tm_ppm_r	Yb_ppm_r	Lu_ppm_r	Hf_ppm_r	Ta_ppm_r	W_ppm_r	Pb_ppm_r	Th_ppm_r
10.6		24	34.3	19	32.8	30	34	31.5
35		9	21.4	22	40.2	36	33	44.8
25		37	33.8	35	33.3	36	26.3	29.1
13.3		23	29.2	34	33.5	30	32.1	26.9
31		9	26	26	31	23	11	14
23		27	29.5	35	33	36	31	38.8
18		29	26.4	25.9	31.3	33	29.8	34.8
19.7		21	30.3	36	30.2	38	40.5	29.5
26.8		28	27.2	24.1	30.7	30	18.7	32.6
30		22	30.2	28	33	27	36	30.8
33		33	25.7	22.2	37.1	39	34	41.5
22.1		21.6	28.5	23.6	27.6	24	24.1	32.8
28		20	31.3	19.1	33.5	31	36	33.3
16.1		26	33.5	27	29.9	19.2	30.8	30.4
18.2		22	31.3	37	35.6	27	25.8	31.8
0.096		0.024	0.017	0.094	0.024	0.13	0.92	0.03
0.095		0.021	0.013	0.082	0.024	0.11	0.75	0.03
0.11		0.023	0.017	0.094	0.027	0.13	0.27	0.033
0.21		0.054	0.047	0.18	0.13	0.19	0.65	0.046
0.31		0.081	0.04	0.14	0.13	0.21	0.45	0.098
0.11		0.092	0.043	0.11	0.088	0.19	0.35	0.034
0.1		0.07	0.046	0.1	0.14	0.18	0.86	0.052
0.081		0.099	0.045	0.078	0.062	0.15	0.91	0.045
0.11		0.17	0.12	0.12	0.17	0.24	0.53	0.073
0.14		0.24	0.1	0.15	0.14	0.31	0.67	0.1
0.053		0.097	0.047	0.051	0.032	0.12	0.67	0.044
0.038		0.094	0.045	0.048	0.074	0.1	0.15	0.035
0.047		0.12	0.052	0.051	0.077	0.11	0.24	0.045
36.4	37.9	37.9	36.2	32.5	39.6	39	38.8	35.6
38.6	39.3	38.6	37	36.6	40.2	40.22	38.2	38.5
38.4	36.7	40.9	36.4	36.5	39.8	40.5	38.7	38.1
38.1	38.8	39.1	37.7	32.4	40.3	40	38.9	38.8
38.1	38.2	39.1	37.2	36.9	39.2	40	38.2	38.6
37.7	38.5	41.1	37.1	37.5	41.2	40	38.9	37.1
38.3	38.5	40.2	38.7	35.1	41	39.9	38.5	38.4

38	38.3	38.1	35.8	34.5	39	39.8	38.6	37.4
38.1	37.6	40.4	37	34.2	40.8	40.1	38.6	38
37.5	39	39.6	37	34.5	42.6	39.6	39.1	37.3
38.5	37.3	39.2	36.2	36.9	39.1	39.6	37.5	37.7
38.2	37.7	37.9	37.1	34.2	38.4	40.6	38.8	38.4

U_ppm_m238

U

238

37.38

24

17

40

U_ppm_m238

29.7

37.1

36.8

37.4

46

31.8

30.3

34.9

33.8

30.4

36.1

31.5

34.4

36

32.1

0.011

0.0097

0.011

0.027

0.022

0.014

0.054

0.02

0.034

0.082

0.02

0.019

0.022

37.2

36.8

38.1

37.5

37.2

37.4

37.4

37.3

37.5

37.2

36.9

38.2

Supplementary Table C10. Zr-in-titanite thermometry

Patchy

Sample	Texture	Zr (ppm)	T (°C)
<i>Notch Peak</i>			
nb-176-3a	1U	561	721
nb-176-3c	1U	448	709
nb-176-3d	1U	418	706
nb-176-3e	1U	366	699
nb-176-4a	1O	373	700
nb-176-4b	1U	488	714
nb-176-4c	1O	482	713
nb-176-4d	1O	456	710
nb-176-4e	1O	556	721
oNP-1-1a	1S	567	722
oNP-1-1b	1O	498	715
oNP-1-1c	1O	343	695
oNP-1-1d	2T	346	696
oNP-1-1e	2T	314	691
oNP-1-1j	1O	1220	766
oNP-1-1k	1S	425	706
oNP-1-1l	2T	658	730
oNP-1-1m	2T	266	682
oNP-1-1t2	1U	469	712
oNP-1-1t3	1U	515	717
oNP-1-1t4	1U	448	709
oNP-1-1t5	1O	419	706
oNP-1-2a	1S	1490	778
oNP-1-2b	1U	1284	769
oNP-1-2e	1U	1860	792
oNP-1-3a	1U	431	707
oNP-1-3b	1U	461	711
oNP-1-3c	1U	524	718
NP-2-3a	1U	421	706
NP-2-3b	1O	408	704
NP-2-3c	1O	438	708
NP-2-3e	1O	392	702
NP-2-3f	1S	525	718
NP-2-5a	1O	349	696
NP-2-5b	1O	364	698
NP-2-5c	1S	412	705
NP-2-5d	1O	389	702
NP-2-5e	1O	407	704
NP-6-10a	2T	361	698
NP-6-10b	1U	601	725

NP-6-10c	2T	520	717
NP-6-10d	2T	620	727
NP-6-10e	2T	170	660
NP-6-1a	1O	641	729
NP-6-1b	1O	573	723
NP-6-1c	1U	618	727
NP-6-1d	1O	551	720
NP-6-1e	2T	322	692
NP-6-1f	2T	305	689
NP-6-1g	1O	501	715
NP-6-1h	1U	506	716
NP-6-4a	1O	532	719
NP-6-4b	1U	612	726
NP-6-4c	1U	608	726
NP-6-4d	2T	638	729
NP-6-4e	2T	781	740
NP-6-4e-1	2T	651	730
NP-6-4f	2T	731	736
NP-6-5a	1U	639	729
NP-6-5b	1U	307	689
NP-6-5c	2T	454	710
NP-6-5d	1S	464	711
NP-6-5e	1O	403	704
NP-6-5f-1	1S	464	711
NP-6-8a	2T	274	684
NP-6-8b	1S	1120	761
NP-6-8c	1S	550	720
NP-6-9a	2T	443	709
NP-6-9b	1S	444	709
NP-6-9c	2T	478	713
NP-6-9d	2T	762	738
NP-6-9f	2T	486	714
NP-6-9g	2T	747	737

Notch Peak Aplites

NP-18-2a-006a	1U	748	737
NP-18-2a-006b	1U	631	728
NP-18-2a-015a	2T	557	721
NP-18-2a-015b	1U	885	747
NP-18-2a-015c	1U	975	753
NP-18-2a-015d	2T	524	718
NP-18-2a-015e	2f	298	688
NP-18-2a-019a	2T	336	694
NP-18-2a-019b	1U	968	752
NP-18-2a-019c	2T	355	697
NP-18-2a-019d	1U	948	751

NP-18-2a-019e	1O	785	740
NP-18-2a-022a	1O	495	715
NP-18-2a-022b	1O	522	717
NP-18-2a-022c	1U	545	720
NP-18-2a-022d	2T	157	656
NP-18-2a-022e	2T	169	660
NP-18-2a-026a	2A	331	693
NP-18-2a-026b	1O	663	731
NP-18-2a-026c	1U	527	718
NP-18-2a-026d	2T	898	748
NP-18-2a-026e1	2T	177	662
NP-18-2a-026e2	2T	384	701
NP-18-2a-026f	1U	605	726
NP-18-2a-026g	2T	468	712
NP-18-2a-026h	2T	137	650
NP-18-2a-026i	1U	908	748
oNP-18-3a-1c	2F	421	706
oNP-18-3a-1d	2F	1230	766
oNP-18-3a-1e	2F	486	714
<i>Little Cottonwood Stock</i>			
LC-23-13g	1O	503	720
LC-23-3b	1O	509	721
LC-23-3c	1O	536	724
LC-23-3h	1O	594	729
LC-36-16d	1O	221	685
LC-36-1c	1O	373	711
LC-36-6b	1O	240	689
LC-HFT-1b	1O	295	699
LC-HFT-1c	1O	340	707
LC-HFT-3b	1O	265	694
LC-HFT-3c	1O	322	704
LC-HFT-3d	1O	254	692
LC-HFT-5a	1O	245	690
LC-HFT-5e	1O	399	715
LC-HFT-5g	1O	195	678
LC-HFT-5i	1O	388	714
LC-HFT-5j	1O	264	694
LC-HFT-5k	1O	259	693
oLC-HFT-2d	1O	416	717
oLC-HFT-3c	1O	320	703
LC-SB-4d	1O	608	731
LC-SB-4e	1O	547	725
LC-SB-4k	1O	429	712
LC-SB-4l	1O	379	705

patchy
 934
 17
 709
 36

 magmatic
 934
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 oscillatory
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 13

LC-SB-4n	10	482	718	
LC-SB-5b	10	367	703	
LC-SB-5h	10	466	716	
LC-SB-5i	10	463	716	
LC-SB-5j	10	312	695	
LC-SB-5k	10	335	699	
LC-SB-5l-1	10	436	713	
oLC-SB-1c	10	643	734	
oLC-SB-3a	10	643	734	
oLC-SB-5f	10	523	722	
LC-SL-1b	10	441	713	
LC-SL-2a	10	391	707	
LC-SL-4b	10	463	716	
LC-SL-6a	10	464	716	
LC-TQ1a	10	328	705	
LC-TQ1b	10	329	705	
LC-TQ1e	10	424	718	
LC-TQ1g	10	286	698	
LC-TQ1k	10	377	712	
LC-TQ1m	10	307	701	
LC-TQ4c	10	369	711	
LC-TQ4d	10	352	708	
LC-23-13e	1Pc	913	754	754
LC-36-16a	1Pc	423	718	718
LC-36-16b	1Pc	282	697	697
LC-36-1b	1Pc	808	754	754
LC-36-1e	1Pc	420	718	718
LC-36-4c	1Pc	334	706	706
LC-36-6d2	1Pc	343	707	707
LC-HFT-1a	1Pc	369	711	711
LC-HFT-3a	1Pc	524	730	730
LC-HFT-6b	1Pc	450	722	722
oLC-HFT-2b	1Pc	459	723	723
oLC-HFT-2c	1Pc	447	721	721
oLC-HFT-4a	1Pc	608	738	738
oLC-HFT-4d	1Pc	357	709	709
oLC-HFT-4t6	1Pc	387	713	713
oLC-HFT-4t9	1Pc	575	735	735
LC-SB-4b	1Pc	526	723	723
LC-SB-4c	1Pc	659	735	735
LC-SB-4h	1Pc	477	718	718
LC-SB-4i	1Pc	12851	934	934
LC-SB-5c	1Pc	369	704	704
LC-SB-5d	1Pc	453	715	715
LC-SB-5e	1Pc	389	707	707

LC-SB-5f	1Pc	448	714	714
oLC-SB-1a	1Pc	1023	760	760
oLC-SB-5c	1Pc	666	736	736
oLC-SB-5g	1Pc	646	734	734
LC-SL-1d	1Pc	513	721	721
LC-TQ1c	1Pc	370	711	711
LC-TQ4b	1Pc	427	719	719
LC-TQ4g	1Pc	656	735	735
LC-TQ4h	1Pc	401	708	708
LC-23-10a	1U	585	729	721
LC-23-13b	1U	556	726	17
LC-HFT-5c	1U	305	701	
LC-HFT-5h	1U	378	712	
LC-HFT-6a	1U	270	695	
oLC-HFT-3d	1U	622	739	
oLC-HFT-6b	1U	567	734	
LC-SB-4j	1U	476	717	
LC-SB-5g	1U	450	714	
oLC-SB-1b	1U	731	741	
oLC-SB-2a	1U	1113	765	
oLC-SB-2b	1U	650	734	
oLC-SB-5a	1U	651	735	
oLC-SB-5i	1U	476	717	
oLC-SB-5j	1U	810	747	
LC-SL-1c	1U	410	709	
LC-SL-1e	1U	781	745	
LC-SL-1f	1U	407	709	
LC-SL-2b	1U	464	716	
LC-SL-2c	1U	619	732	
LC-SL-2d	1U	503	720	
LC-SL-4a	1U	425	711	
LC-SL-4c	1U	455	715	
LC-TQ1d	1U	410	717	
LC-TQ1j	1U	373	712	
LC-TQ3a	1U	229	686	
LC-TQ3b	1U	349	708	
LC-TQ3c	1U	382	713	
LC-TQ4e	1U	460	723	
LC-23-10b	1S	736	741	726
LC-HFT-6c	1S	551	733	11
oLC-HFT-7e	1S	361	710	
LC-SL-6b	1S	502	720	
LC-SL-6c	1S	717	740	

LC-TQ1i	1S	475	724	
LC-TQ4a	1S	427	719	
LC-TQ4f	1S	479	725	
LC-23-10c	2A	185	669	674
LC-23-10d	2A	303	694	33
LC-23-13a	2A	649	734	656
LC-23-13c	2A	199	672	50
LC-23-13d	2A	360	702	
LC-23-13h	2A	355	702	
LC-23-3a	2A	252	684	
LC-23-3d	2A	107	643	
LC-23-3e	2A	137	654	
LC-23-3f	2A	259	686	
LC-23-7a	2A	401	708	
LC-23-7b	2A	450	714	
LC-23-7c	2A	418	710	
LC-23-7d	2A	199	672	
LC-36-16c	2A	51	616	
LC-36-1a	2A	191	677	
LC-36-1d	2A	45	611	
LC-36-4a	2A	165	670	
LC-36-4b	2A	164	670	
LC-36-4d	2A	106	649	
LC-36-4e	2A	239	688	
LC-36-6a	2A	299	700	
LC-36-6c	2A	243	689	
LC-36-6e	2A	60	623	
LC-36-6d1	2A	570	734	
LC-HFT-1d	2A	32	597	
LC-HFT-3e	2A	192	678	
LC-HFT-6d	2A	112	652	
oLC-HFT-7a	2A	497	727	
oLC-HFT-7c	2A	347	708	
oLC-HFT-7d	2A	72	632	
oLC-HFT-8c	2A	80	636	
oLC-HFT-8f	2A	69	630	
oLC-HFT-4b	2A	350	708	
oLC-HFT-4c	2A	293	699	
LC-SB-4a	2A	104	641	
LC-SB-4f	2A	351	701	
LC-SB-4g	2A	148	658	
LC-SB-4m	2A	363	703	
LC-SB-4o	2A	214	676	
LC-SB-5a	2A	153	660	
LC-SL-1a	2A	259	686	

LC-TQ1f	2A	226	686
LC-TQ1h	2A	160	668
LC-TQ1l	2A	208	682
LC-TQ3d	2A	84	638
LC-TQ3e	2A	109	650
LC-23-13f	2B	102	641
LC-36-6f	2B	569	734
LC-36-6g	2B	32	597
LC-36-6h	2B	106	649
oLC-HFT-6a	2B	130	659

Little Cottonwood enclaves

LC-HFT-18-2-11a	1Pm	720	748	748	Patchy encl
LC-HFT-18-2-11b	2A	231	687		834
LC-HFT-18-2-11c	1O	462	723		714
LC-HFT-18-2-11d	1O	300	700		759
LC-HFT-18-2-13a	1U	405	716		38
LC-HFT-18-2-13b	2A	281	697		All enclaves
LC-HFT-18-2-13c	1Pc	2940	834	834	
LC-HFT-18-2-13d	1Pc	2470	823	823	
LC-HFT-18-2-13d1	1Pc	2620	827	827	
LC-HFT-18-2-13e	1U	392	714		
LC-HFT-18-2-13f	1Pc	480	725	725	
LC-HFT-18-2-13g	1Pc	564	734	734	
LC-HFT-18-2-14a	1O	418	718		
LC-HFT-18-2-14b	1U	340	707		
LC-HFT-18-2-14c	2A	34	599		
LC-HFT-18-2-1a	1U	526	730		
LC-HFT-18-2-1b	2A	398	715		
LC-HFT-18-2-1d	1Pc	960	764	764	
LC-HFT-18-2-1e	1Pc	605	738	738	
LC-HFT-18-2-1f	2A	310	702		
LC-HFT-18-2-1g	1O	910	761		
LC-HFT-18-2-23a	1U	323	704		
LC-HFT-18-2-23b	1O	550	732		
LC-HFT-18-2-23c	1Pm	486	726	726	
LC-HFT-18-2-23d1	2A	420	718		
LC-HFT-18-2-23d2	2A	3900	854		
LC-HFT-18-2-24e	1O	324	704		
LC-HFT-18-2-24f	1U	348	708		
LC-HFT-18-2-24g	1O	372	711		
LC-HFT-18-2-24h	1U	372	721		
oLC-HFT-18-6-1a	1S	774	752		

oLC-HFT-18-6-1b	1U	299	700	
oLC-HFT-18-6-1c	1U	469	724	
oLC-HFT-18-6-1d	1S	467	724	
oLC-HFT-18-6-1e	2T	71		
oLC-HFT-18-6-2c	1U	468	724	
oLC-HFT-18-6-3a	1U	453	722	
oLC-HFT-18-6-3c	1U	664	743	
oLC-HFT-18-6-3d	1S	908	761	
oLC-HFT-18-6-3f	1U	492	726	
oLC-HFT-18-6-3g	2A	193	678	
oLC-HFT-18-6-5a	1U	606	738	
oLC-HFT-18-6-5b	1U	378	712	
oLC-HFT-18-6-5d	1U	352	708	
oLC-HFT-18-6-5e	1U	440	720	
oLC-SB-18-5-2a	1U	698	738	
oLC-SB-18-5-2b	1Pc	773	744	744
oLC-SB-18-5-2d	1Pc	592	729	729
oLC-SB-18-5-2e	1U	361	703	
oLC-SB-18-5-3b	1U	541	724	
oLC-SB-18-5-3c	1U	371	704	
oLC-SB-18-5-3e	2T	467	716	
oLC-SB-18-5-3f	1U	575	728	
oLC-SB-18-5-5a	1U	484	718	
oLC-SB-18-5-5b	1U	352	701	
oLC-SB-18-5-5c	1Pc	445	714	714
oLC-SB-18-5-5d	1U	602	730	
oLC-SB-18-5-5e	1U	737	742	

Temperatures calculated using equations in Hayden et al. (2008)

	All		Magmatic
Max	934	Max	
Min	597	Min	
Average	705	Average	
St Dev	36	St Dev	

Max
Min
Average
St Dev

Max
Min
Average
St Dev

2A

2B

laves

Max

Min

Average

St Dev

5

Supplementary Table C10. Zr-in-titanite thermometry

Sample	Texture	Zr (ppm)	T (°C)
<i>Notch Peak</i>			
nb-176-3a	1U	561	721
nb-176-3c	1U	448	709
nb-176-3d	1U	418	706
nb-176-3e	1U	366	699
nb-176-4a	1O	373	700
nb-176-4b	1U	488	714
nb-176-4c	1O	482	713
nb-176-4d	1O	456	710
nb-176-4e	1O	556	721
oNP-1-1a	1S	567	722
oNP-1-1b	1O	498	715
oNP-1-1c	1O	343	695
oNP-1-1d	2T	346	696
oNP-1-1e	2T	314	691
oNP-1-1j	1O	1220	766
oNP-1-1k	1S	425	706
oNP-1-1l	2T	658	730
oNP-1-1m	2T	266	682
oNP-1-1t2	1U	469	712
oNP-1-1t3	1U	515	717
oNP-1-1t4	1U	448	709
oNP-1-1t5	1O	419	706
oNP-1-2a	1S	1490	778
oNP-1-2b	1U	1284	769
oNP-1-2e	1U	1860	792
oNP-1-3a	1U	431	707
oNP-1-3b	1U	461	711
oNP-1-3c	1U	524	718
NP-2-3a	1U	421	706
NP-2-3b	1O	408	704
NP-2-3c	1O	438	708
NP-2-3e	1O	392	702
NP-2-3f	1S	525	718
NP-2-5a	1O	349	696
NP-2-5b	1O	364	698
NP-2-5c	1S	412	705
NP-2-5d	1O	389	702
NP-2-5e	1O	407	704
NP-6-10a	2T	361	698
NP-6-10b	1U	601	725

NP-6-10c	2T	520	717
NP-6-10d	2T	620	727
NP-6-10e	2T	170	660
NP-6-1a	1O	641	729
NP-6-1b	1O	573	723
NP-6-1c	1U	618	727
NP-6-1d	1O	551	720
NP-6-1e	2T	322	692
NP-6-1f	2T	305	689
NP-6-1g	1O	501	715
NP-6-1h	1U	506	716
NP-6-4a	1O	532	719
NP-6-4b	1U	612	726
NP-6-4c	1U	608	726
NP-6-4d	2T	638	729
NP-6-4e	2T	781	740
NP-6-4e-1	2T	651	730
NP-6-4f	2T	731	736
NP-6-5a	1U	639	729
NP-6-5b	1U	307	689
NP-6-5c	2T	454	710
NP-6-5d	1S	464	711
NP-6-5e	1O	403	704
NP-6-5f-1	1S	464	711
NP-6-8a	2T	274	684
NP-6-8b	1S	1120	761
NP-6-8c	1S	550	720
NP-6-9a	2T	443	709
NP-6-9b	1S	444	709
NP-6-9c	2T	478	713
NP-6-9d	2T	762	738
NP-6-9f	2T	486	714
NP-6-9g	2T	747	737

Notch Peak Aplites

NP-18-2a-006a	1U	748	737
NP-18-2a-006b	1U	631	728
NP-18-2a-015a	2T	557	721
NP-18-2a-015b	1U	885	747
NP-18-2a-015c	1U	975	753
NP-18-2a-015d	2T	524	718
NP-18-2a-015e	2f	298	688
NP-18-2a-019a	2T	336	694
NP-18-2a-019b	1U	968	752
NP-18-2a-019c	2T	355	697
NP-18-2a-019d	1U	948	751

NP-18-2a-019e	1O	785	740
NP-18-2a-022a	1O	495	715
NP-18-2a-022b	1O	522	717
NP-18-2a-022c	1U	545	720
NP-18-2a-022d	2T	157	656
NP-18-2a-022e	2T	169	660
NP-18-2a-026a	2A	331	693
NP-18-2a-026b	1O	663	731
NP-18-2a-026c	1U	527	718
NP-18-2a-026d	2T	898	748
NP-18-2a-026e1	2T	177	662
NP-18-2a-026e2	2T	384	701
NP-18-2a-026f	1U	605	726
NP-18-2a-026g	2T	468	712
NP-18-2a-026h	2T	137	650
NP-18-2a-026i	1U	908	748
oNP-18-3a-1c	2F	421	706
oNP-18-3a-1d	2F	1230	766
oNP-18-3a-1e	2F	486	714

Little Cottonwood Stock

LC-23-10a	1U	585	729
LC-23-10b	1S	736	741
LC-23-10c	2A	185	669
LC-23-10d	2A	303	694
LC-23-13a	2A	649	734
LC-23-13b	1U	556	726
LC-23-13c	2A	199	672
LC-23-13d	2A	360	702
LC-23-13e	1Pc	913	754
LC-23-13f	2B	102	641
LC-23-13g	1O	503	720
LC-23-13h	2A	355	702
LC-23-3a	2A	252	684
LC-23-3b	1O	509	721
LC-23-3c	1O	536	724
LC-23-3d	2A	107	643
LC-23-3e	2A	137	654
LC-23-3f	2A	259	686
LC-23-3h	1O	594	729
LC-23-7a	2A	401	708
LC-23-7b	2A	450	714
LC-23-7c	2A	418	710
LC-23-7d	2A	199	672

LC-36-16a	1Pc	423	718
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atchy

934 Max
697 Min
730 Average
36 St Dev

754

718

LC-36-16b	1Pc	282	697	697
LC-36-16c	2A	51	616	
LC-36-16d	1O	221	685	
LC-36-1a	2A	191	677	
LC-36-1b	1Pc	808	754	754
LC-36-1c	1O	373	711	
LC-36-1d	2A	45	611	
LC-36-1e	1Pc	420	718	718
LC-36-4a	2A	165	670	
LC-36-4b	2A	164	670	
LC-36-4c	1Pc	334	706	706
LC-36-4d	2A	106	649	
LC-36-4e	2A	239	688	
LC-36-6a	2A	299	700	
LC-36-6b	1O	240	689	
LC-36-6c	2A	243	689	
LC-36-6d2	1Pc	343	707	707
LC-36-6e	2A	60	623	
LC-36-6f	2B	569	734	
LC-36-6g	2B	32	597	
LC-36-6h	2B	106	649	
LC-36-6d1	2A	570	734	
LC-HFT-1a	1Pc	369	711	711
LC-HFT-1b	1O	295	699	
LC-HFT-1c	1O	340	707	
LC-HFT-1d	2A	32	597	
LC-HFT-3a	1Pc	524	730	730
LC-HFT-3b	1O	265	694	
LC-HFT-3c	1O	322	704	
LC-HFT-3d	1O	254	692	
LC-HFT-3e	2A	192	678	
LC-HFT-5a	1O	245	690	
LC-HFT-5c	1U	305	701	
LC-HFT-5e	1O	399	715	
LC-HFT-5g	1O	195	678	
LC-HFT-5h	1U	378	712	
LC-HFT-5i	1O	388	714	
LC-HFT-5j	1O	264	694	
LC-HFT-5k	1O	259	693	
LC-HFT-6a	1U	270	695	
LC-HFT-6b	1Pc	450	722	722
LC-HFT-6c	1S	551	733	
LC-HFT-6d	2A	112	652	
oLC-HFT-7a	2A	497	727	
oLC-HFT-7c	2A	347	708	

oLC-HFT-7d	2A	72	632	
oLC-HFT-7e	1S	361	710	
oLC-HFT-8c	2A	80	636	
oLC-HFT-8f	2A	69	630	
oLC-HFT-2b	1Pc	459	723	723
oLC-HFT-2c	1Pc	447	721	721
oLC-HFT-2d	1O	416	717	
oLC-HFT-3c	1O	320	703	
oLC-HFT-3d	1U	622	739	
oLC-HFT-4a	1Pc	608	738	738
oLC-HFT-4b	2A	350	708	
oLC-HFT-4c	2A	293	699	
oLC-HFT-4d	1Pc	357	709	709
oLC-HFT-4t6	1Pc	387	713	713
oLC-HFT-4t9	1Pc	575	735	735
oLC-HFT-6a	2B	130	659	
oLC-HFT-6b	1U	567	734	
LC-SB-4a	2A	104	641	
LC-SB-4b	1Pc	526	723	723
LC-SB-4c	1Pc	659	735	735
LC-SB-4d	1O	608	731	
LC-SB-4e	1O	547	725	
LC-SB-4f	2A	351	701	
LC-SB-4g	2A	148	658	
LC-SB-4h	1Pc	477	718	718
LC-SB-4i	1Pc	12851	934	934
LC-SB-4j	1U	476	717	
LC-SB-4k	1O	429	712	
LC-SB-4l	1O	379	705	
LC-SB-4m	2A	363	703	
LC-SB-4n	1O	482	718	
LC-SB-4o	2A	214	676	
LC-SB-5a	2A	153	660	
LC-SB-5b	1O	367	703	
LC-SB-5c	1Pc	369	704	704
LC-SB-5d	1Pc	453	715	715
LC-SB-5e	1Pc	389	707	707
LC-SB-5f	1Pc	448	714	714
LC-SB-5g	1U	450	714	
LC-SB-5h	1O	466	716	
LC-SB-5i	1O	463	716	
LC-SB-5j	1O	312	695	

LC-SB-5k	1O	335	699	
LC-SB-5l-1	1O	436	713	
oLC-SB-1a	1Pc	1023	760	760
oLC-SB-1b	1U	731	741	
oLC-SB-1c	1O	643	734	
oLC-SB-2a	1U	1113	765	
oLC-SB-2b	1U	650	734	
oLC-SB-3a	1O	643	734	
oLC-SB-5a	1U	651	735	
oLC-SB-5c	1Pc	666	736	736
oLC-SB-5f	1O	523	722	
oLC-SB-5g	1Pc	646	734	734
oLC-SB-5i	1U	476	717	
oLC-SB-5j	1U	810	747	
LC-SL-1a	2A	259	686	
LC-SL-1b	1O	441	713	
LC-SL-1c	1U	410	709	
LC-SL-1d	1Pc	513	721	721
LC-SL-1e	1U	781	745	
LC-SL-1f	1U	407	709	
LC-SL-2a	1O	391	707	
LC-SL-2b	1U	464	716	
LC-SL-2c	1U	619	732	
LC-SL-2d	1U	503	720	
LC-SL-4a	1U	425	711	
LC-SL-4b	1O	463	716	
LC-SL-4c	1U	455	715	
LC-SL-6a	1O	464	716	
LC-SL-6b	1S	502	720	
LC-SL-6c	1S	717	740	
LC-TQ1a	1O	328	705	
LC-TQ1b	1O	329	705	
LC-TQ1c	1Pc	370	711	711
LC-TQ1d	1U	410	717	
LC-TQ1e	1O	424	718	
LC-TQ1f	2A	226	686	
LC-TQ1g	1O	286	698	
LC-TQ1h	2A	160	668	
LC-TQ1i	1S	475	724	
LC-TQ1j	1U	373	712	
LC-TQ1k	1O	377	712	
LC-TQ1l	2A	208	682	
LC-TQ1m	1O	307	701	

LC-TQ3a	1U	229	686	
LC-TQ3b	1U	349	708	
LC-TQ3c	1U	382	713	
LC-TQ3d	2A	84	638	
LC-TQ3e	2A	109	650	
LC-TQ4a	1S	427	719	
LC-TQ4b	1Pc	427	719	719
LC-TQ4c	1O	369	711	
LC-TQ4d	1O	352	708	
LC-TQ4e	1U	460	723	
LC-TQ4f	1S	479	725	
LC-TQ4g	1Pc	656	735	735
LC-TQ4h	1Pc	401	708	708

Little Cottonwood enclaves

LC-HFT-18-2-11a	1Pm	720	748	748	834 Max 714 Min 759 Average 38 St Dev
LC-HFT-18-2-11b	2A	231	687		
LC-HFT-18-2-11c	1O	462	723		
LC-HFT-18-2-11d	1O	300	700		
LC-HFT-18-2-13a	1U	405	716		
LC-HFT-18-2-13b	2A	281	697		
LC-HFT-18-2-13c	1Pc	2940	834	834	
LC-HFT-18-2-13d	1Pc	2470	823	823	
LC-HFT-18-2-13d1	1Pc	2620	827	827	
LC-HFT-18-2-13e	1U	392	714		
LC-HFT-18-2-13f	1Pc	480	725	725	
LC-HFT-18-2-13g	1Pc	564	734	734	
LC-HFT-18-2-14a	1O	418	718		
LC-HFT-18-2-14b	1U	340	707		
LC-HFT-18-2-14c	2A	34	599		
LC-HFT-18-2-1a	1U	526	730		
LC-HFT-18-2-1b	2A	398	715		
LC-HFT-18-2-1d	1Pc	960	764	764	
LC-HFT-18-2-1e	1Pc	605	738	738	
LC-HFT-18-2-1f	2A	310	702		
LC-HFT-18-2-1g	1O	910	761		
LC-HFT-18-2-23a	1U	323	704		
LC-HFT-18-2-23b	1O	550	732		
LC-HFT-18-2-23c	1Pm	486	726	726	
LC-HFT-18-2-23d1	2A	420	718		
LC-HFT-18-2-23d2	2A	3900	854		
LC-HFT-18-2-24e	1O	324	704		
LC-HFT-18-2-24f	1U	348	708		

LC-HFT-18-2-24g	1O	372	711	
LC-HFT-18-2-24h	1U	372	721	
oLC-HFT-18-6-1a	1S	774	752	
oLC-HFT-18-6-1b	1U	299	700	
oLC-HFT-18-6-1c	1U	469	724	
oLC-HFT-18-6-1d	1S	467	724	
oLC-HFT-18-6-1e	2T	71		
oLC-HFT-18-6-2c	1U	468	724	
oLC-HFT-18-6-3a	1U	453	722	
oLC-HFT-18-6-3c	1U	664	743	
oLC-HFT-18-6-3d	1S	908	761	
oLC-HFT-18-6-3f	1U	492	726	
oLC-HFT-18-6-3g	2A	193	678	
oLC-HFT-18-6-5a	1U	606	738	
oLC-HFT-18-6-5b	1U	378	712	
oLC-HFT-18-6-5d	1U	352	708	
oLC-HFT-18-6-5e	1U	440	720	
oLC-SB-18-5-2a	1U	698	738	
oLC-SB-18-5-2b	1Pc	773	744	744
oLC-SB-18-5-2d	1Pc	592	729	729
oLC-SB-18-5-2e	1U	361	703	
oLC-SB-18-5-3b	1U	541	724	
oLC-SB-18-5-3c	1U	371	704	
oLC-SB-18-5-3e	2T	467	716	
oLC-SB-18-5-3f	1U	575	728	
oLC-SB-18-5-5a	1U	484	718	
oLC-SB-18-5-5b	1U	352	701	
oLC-SB-18-5-5c	1Pc	445	714	714
oLC-SB-18-5-5d	1U	602	730	
oLC-SB-18-5-5e	1U	737	742	

Temperatures calculated using equations in Hayden et al. (2008)

All

Magmatic

934 Max

597 Min

705 Average

36 St Dev

