



Space Weather

Supporting Information for

The Future of Ground Magnetometer Arrays in Support of Space Weather Monitoring and Research

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Introduction

This file contains three tables and one figure. Table S1 lists the institutions represented at the initial Ground Magnetometer Array Workshop. Table S2 contains information about all NSF-AGS supported and USGS ground-based magnetometer arrays as of Fall 2016 and Figure S1 is a map showing these arrays. Table S3 lists web sites serving ground magnetometer data.

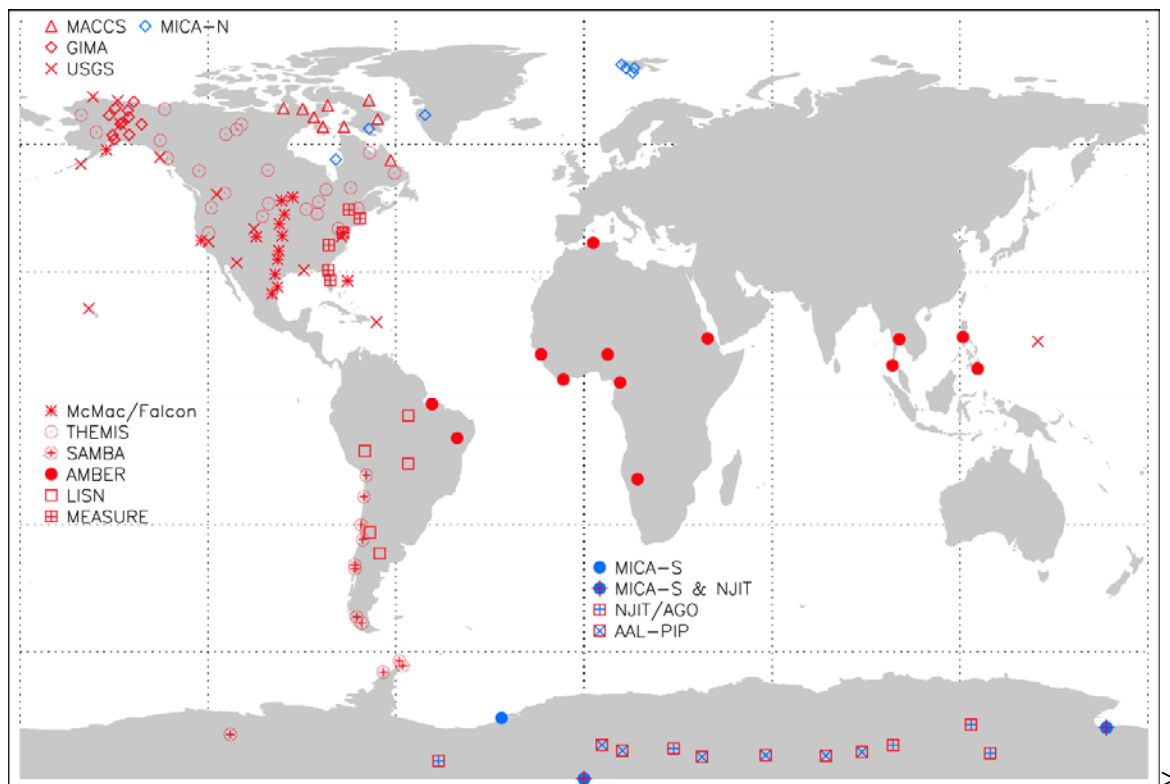


Figure S1. Map of U.S. Ground-based Fluxgate and Induction Magnetometers as of 2017.

Table S1. Institutions Represented at the Workshop

Augsburg College
 Boston College
 Geophysical Institute, University of Alaska – Fairbanks
 Johns Hopkins University Applied Physics Laboratory
 NASA / Goddard Space Flight Center
 National Science Foundation
 New Jersey Institute of Technology
 Space Environment Corporation and Utah State University
 Space Science Institute
 University of California at Los Angeles
 University of Michigan
 University of New Hampshire
 U.S. Geological Survey
 Virginia Polytechnic Institute and State University

Table S2. NSF-AGS and U.S. Geological Survey Ground-Based Magnetometer Arrays as of Fall 2016

<u>Array</u>	<u>Location</u>	<u>Instruments</u>	<u>Manufacturer</u>	<u>No. of Locations</u>
AAL-PIP	Antarctica	Fluxgate	Korepanov	6
	Antarctica	Induction coil	UNH	6
AMBER/iMAGS	Africa	Fluxgate	UCLA	7
	South America	Fluxgate	UCLA	2
	East Asia	Fluxgate	UCLA	4
Falcon	Continental US	Fluxgate	UCLA	6
GIMA	Alaska	Fluxgate	Narod	9
IGPP-LANL	Cont. US	Fluxgate	UCLA	2
Jicamarca	South America	Fluxgate	UCLA/Jicamarca	4
LISN	South America	Fluxgate	Jicamarca	6
MACCS	Arctic Canada	Fluxgate	Narod	8
McMAC	Cont. US, & Mexico	Fluxgate	UCLA	9
MEASURE/iMAGS	Cont. US	Fluxgate	UCLA	6
SAMBA/iMAGS	South America,	Fluxgate	UCLA	7
	Antarctica	Fluxgate	UCLA	3
	Antarctica	Fluxgate	U of Michigan	1
THEMIS GBO	Canada	Fluxgate	UCLA	22
USGS	U.S. & Territories	Fluxgate	Narod	14
NJIT / AGO	Antarctica	Fluxgate	Bell Labs	7
	Antarctica	Induction coil	Tohoku U.	5
MICA-North	Alaska, Canada, Greenland, Svalbard	Induction coil	UNH	8
MICA-South	Antarctica	Induction coil	UNH	3

Table S3. Ground Magnetometer Array Web Sites Serving Magnetometer Data

AAL-PIP	http://mist.nianet.org/index.html
Antarctic Geospace	https://antarcticgeospace.njit.edu/
CDAWEB	http://cdaweb.gsfc.nasa.gov/
GIMA	https://www.asf.alaska.edu/magnetometer/
INTERMAGNET	http://www.intermagnet.org/data-donnee/download-eng.php
LISN	http://lisn.igp.gob.pe/
MACCS	http://space.augsburg.edu/maccs/index.html
Induction Coils (Augsburg)	http://space.augsburg.edu
Induction Coils (UNH)	http://mirl.sr.unh.edu/projects_ulf.html
SAMBA-AMBER	http://magnetometers.bc.edu/index.php/78-magnetometers/78-home
USGS	http://geomag.usgs.gov/products/
SuperMAG	http://supermag.jhuapl.edu/
THEMIS GMAG	http://themis.ssl.berkeley.edu/data/themis/thg/mirrors/mag/
World Data System	http://wdc.kugi.kyoto-u.ac.jp , http://www.wdc.bgs.ac.uk
