



Award #: 1835379

Caltech



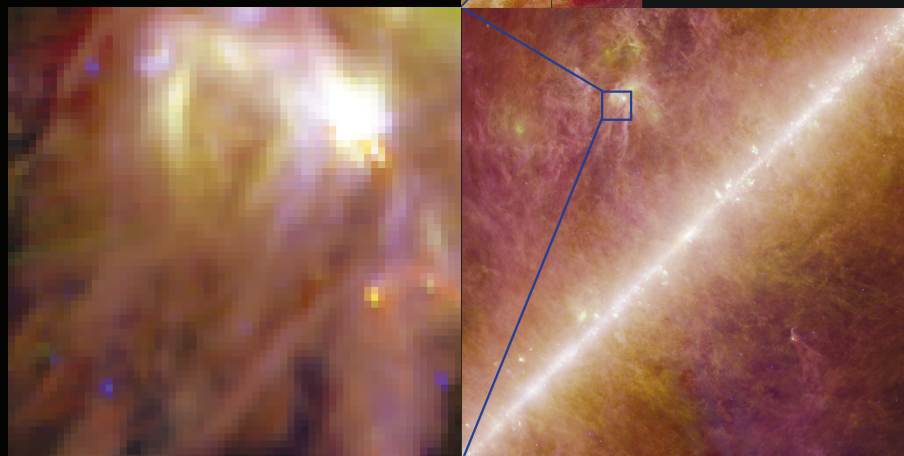
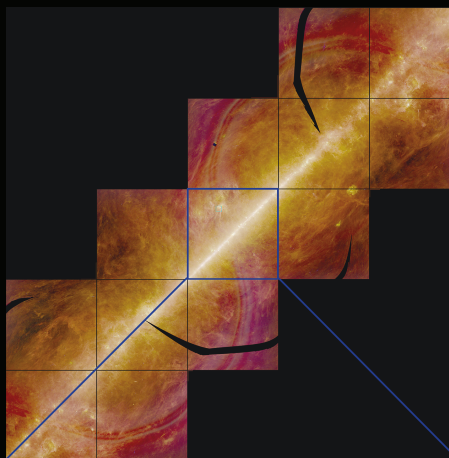
## CSSI Element: Elements: Bringing Montage To Cutting Edge Science Environments.

PI: G. Bruce Berriman, Co-PIs: John C. Good Institutions: Caltech/IPAC-NExScl

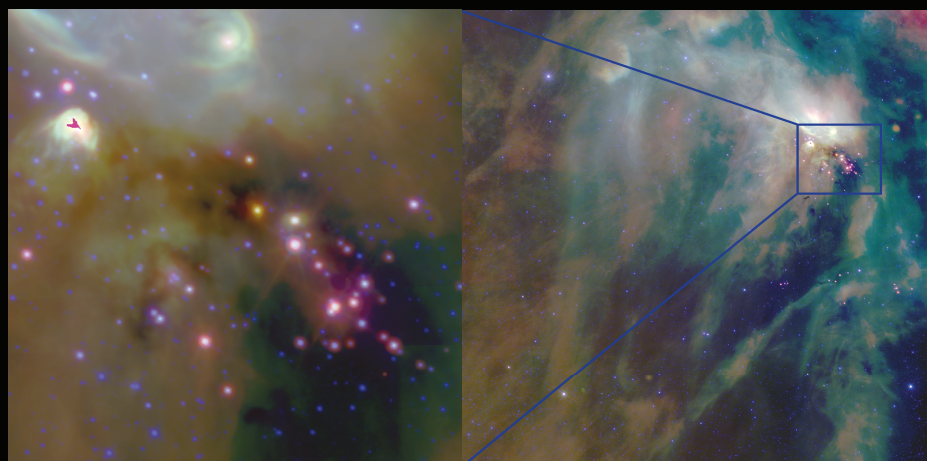
### ALL SCALES GREAT AND SMALL: HiPS Visualization Of The Infrared Sky



- Hierarchical Progressive Surveys (HiPS) are a new way of visualizing images.
- Montage is crucial in creating HiPS images in the infrared.
  - Models infrared backgrounds.
  - Adaptive image stretch.
  - Supports HEALPix sky tessellation scheme that underpins HiPS.
- HiPS-enabled Montage code to be released Spring 2020.



**$\rho$  Ophiuchus. IRIS Mission. 3-color composite: 12, 60, 100  $\mu\text{m}$ .**



**$\rho$  Ophiuchus. WISE Mission. 3 color composite: 3.6, 12 and 22  $\mu\text{m}$ .**