Core Objective: The Astrolabe Project is working to provide an easy-to-use, reliable and long-lived environment for processing, storage and visualization of valuable scientific data that are not managed as part of existing missions and trusted repositories. Particular emphasis is given to individual researchers and research groups with older, orphaned datasets that can add context to new research enterprises.

Current Activities: Within the CyVerse computational environment, and with support from National Science Foundation (Award #1642446, Division of Advanced Cyberinfrastructure), WorldWide Telescope open-source software is being developed as a repository front-end, and as a built-in visualization tool for compatible image data including astronomical sky images and satellite images of our own planet.

Future Astrolabe Development: Implementation of the Astrolabe system depends on further efforts to:

- Entice researchers across domains to share data, leveraging proximity to high-performance computing and community-developed analysis tools;
- Link data to prior and current publications;
- Integrate with Open Science initiatives and federate with other repositories;
- Create a dynamic and attractive user portal for data deposition and retrieval; and
- Train students in data science and software development through hands-on experience.

Contact: P. Bryan Heidorn, PhD
Director, UA School of Information
(520) 621-3565
heidorn@email.arizona.edu