

Breakdown of Active Accumulating Archive (Node) Functions

Discipline Nodes together constitute the active accumulating archive for NASA's Planetary Science (PDS) missions. Collectively, the current Node elements accomplish the following tasks:

1. Curate data sets relevant to the Discipline.
 - Maintain catalog of PDS ingested data
 - Track submitted and reviewed data
 - Work with data submitters to verify submissions
 - Organize peer reviews of the data submitted
 - Complete actions to certify, ingest, and/or archive the data
2. Interact with Missions and/or instrument teams for archiving.
 - Promulgate PDS standards and formats
 - Assist with the preparation of archiving documents, e.g., Data Management and Archive Plan (DMAP), Interface Control Document (ICD), Software Interface Specification (SIS)
 - Develop PDS tools for mission support as needed
 - Provide PDS lessons learned for archive design
3. Provide high-level web access for missions and users.
 - Support competed Data Analysis Programs in the Planetary Science Division
 - Provide expert help for users of curated data
 - Develop tools for user access to curated data
4. Provide scientific expertise in the Discipline area.
 - Recruit relevant scientists to participate in Discipline Node activities, e.g., data peer reviews
 - Provide insight and advice on a broad range of topics relevant to the data curated
 - Conduct continuing planetary science research efforts that utilize the archive data
5. Participate in PDS Management Council shared governance.
 - Provide technology insight throughout PDS
 - Provide reports and information to the Federation
 - Provide needed plans for security, disaster recovery, and data integrity
 - Comply with PDS Federation requirements for data preservation
 - Participate in PDS efforts in Scientific Communication