Archiving Checklist

- ☐ **Contact Appropriate Node**
  Atmospheres
  Geosciences
  Cartography & Imaging
  Planetary Plasma Interactions
  Ring-Moon Systems
  Small Bodies

- ☐ **Data Information to PDS**

- ☐ **Begin Design of XML Label Templates with the Node**

- ☐ **Create Archive with Label Templates and Validate**

- ☐ **Create User Guide Documentation**

- ☐ **Node Peer Reviews Completed Data**

- ☐ **Lien Resolution**

- ☐ **Node Distributes Data & Develops Web Interface**

Atmospheres Node Contacts

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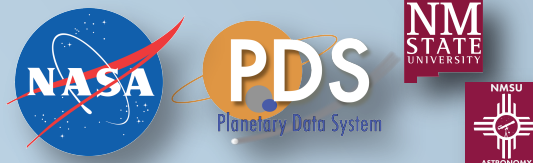**Lyle Huber**
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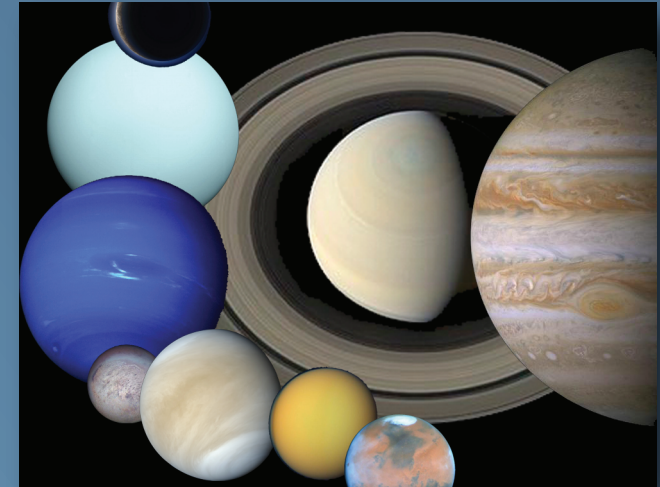Research Scientist
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Planetary Data System: Supporting Archiving of Derived Data

**Planetary Atmospheres Node
Department of Astronomy
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Preparing to Archive Derived Data

- Derived data are highly desirable archive products that comprise the final step in fully sharing scientific results with the scientific public.
- However this step is often not taken due to a lack of understanding of the PDS archiving process.
- With the advent of increased accountability with Data Management Plans in funding proposal calls, there will be a need to archive with the PDS.
- A good archive begins with designing a good Data Management Plan, through communication with supporting discipline node.

The Basic Archiving Process

- Select the appropriate discipline node based on information at */pds.nasa.gov/*
- Determine if the data you have in mind would be accepted by the discipline node
- Cooperatively work with the node personnel to determine a procedure that will allow you to archive your data with maximum efficiency. All archived data are required to be peer reviewed and adhere to PDS4 standards.

The key to minimizing your effort is to rely on the node to provide you with the structure of the archive and, using sample products that you provide, to define and design the templates for producing valid PDS4-compliant XML labels.

Quality data archiving begins with the Data Management Plan in the proposal phase.

PROPOSAL

Submitted data are reviewed before being archived as *Certified Data*

CERTIFIED DATA
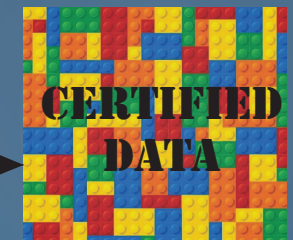
Committing to Generate Derived Data

Data Provider   *Discipline Node*

Step 1
Communication: Contact node, provide information about types of data products, estimated data volume, and personnel contact information. Archive design begins with discourse between provider and node and help with constructing the proposal Data Management Plan.

Step 2
Archive Schedule: Data Provider sets a point of contact to ensure completion of the archive. Schedules for data delivery will be set depending on data types and needs of the provider.

Label Design: PDS acknowleges project and requests data samples and pertinent parts of proposal. PDS provides iteratively tailored XML label templates to begin work with the provider.

Step 3
Archive Creation: Data Provider iteratively refines the XML label templates with PDS resulting in valid labels and PDS4 Bundle-Collection structure(s).

Archive Validation: PDS conducts initial validation of data and label integrity. Communication between node and provider refine metadata and labels.

Step 4
Documentation: Data Provider with assistance of PDS produces necessary User Guide documentation, describing data and procedures for efficient usage.

Peer Review: PDS sets up review panel(s), which may include experts in the field and PDS personnel, to peer review the archive.

Step 5
Review and Lien Resolution: Once archive passes the peer review process and all liens are resolved, the archive can be completed and archived as certified data.

Data Distribution: Finalized archive is registered with PDS4 Central Registry. PDS, with provider's support, will provide easy web access to the finalized data products.