

Services We Provide

- Outer planet remote sensing data sets.
 - Mission data as a secondary source within PDS.
 - Earth-based data including astrometry.
 - Pluto orbital system data TBD.
- OPUS: ring, planet & satellite geometric search.
 - Focus is on “un-mapped” data.
 - Focus is on data potentially involving multiple targets.
- Planet viewer & ephemeris tools for outer planet observation planning & analysis.

Science Node Overlaps

- Atmospheres
 - Geometric search for outer planet atmospheres data.
 - Voyager, Galileo, Cassini mission support.
- Geosciences
 - TBD: Dust ring search data sets.
- PPI
 - TBD: Dusty ring data.
- Small Bodies
 - New Horizons at Jupiter.
 - TBD: Pluto as an orbital system.

Support Node Overlaps

- Imaging
 - Outer planet image search (of which geometry is just one component).
 - Outer planets mission support.
- NAIF
 - On-line ephemeris tools.
- Radio
 - Derived occultation profiles.
- NOTES
 - Overlaps are only a bad thing if they create confusion.
 - PDS4 decouples the physical location of a resource from its associated discipline(s).

Common Threads

- Outer planets only
 - Pluto and Mars are potentially included.
- Planetary systems as distinct from individual target bodies.
- Orbital dynamics & evolution
 - Dust as well as larger bodies.
- Emphasis on detailed geometry.
- Note: There really exists a research community that focuses on exactly these types of issues.

Names for Discussion...

- Rings & Outer Planetary Systems
- Ring-Moon Systems
- Rings & Planetary Dynamics
- Rings & Orbital Systems
- Rings & Dynamical Systems