

Geosciences Node

Ed Guinness

**MC Face-to-Face Meeting
Washington, DC
March 27-28, 2012**

Web Presence

- Geosciences Node Website
- **Community Forum**
- FTP Archive Access
- Analyst's Notebook (AN)
 - MER, Phoenix, LCROSS, Apollo
 - **Planned for MSL**
 - **Mosaic and target viewer**
- Orbital Data Explorer (ODE)
 - Lunar, Mars, Mercury, **Venus**
 - Query Tools and **Map Interface**
 - **Additional data sets**
- **Spectral Library** (In Development)

PDS Geosciences Website

The primary portal for information and direct HTTP access to the PDS Geosciences Node Archives.

March 1, 2011- February 29, 2012	
Page Views	
Total Page Views	1,548,336
Average Page Views per Day	4,230
Average Page Views per Visit	6.48
Visits	
Total Visits	238,929
Average Visits per Day	652
Total Unique IPs	92,377
Average Visitor Stay Length	12:05
Data Downloaded	
Total Data Downloaded	33.41 TB
Average per Day	91.28 GB
Average per Visit	146.64 MB

<http://pds-geosciences.wustl.edu/>

Community Forum

PDS Geosciences Node's Community Forum provides a convenient location for posting news, tutorials, and answering user questions.

PDS Geosciences Sign In Register Now! Help

Forums Members Downloads Blogs

PDS Geosciences Node Community

PDS Geosciences Node

Forum	Last Post Info
Announcements Topics: 35 Replies: 3	MRO Release 20 by Susie Slavney 01 March 2012 - 02:46 PM
For data providers Topics: 2 Replies: 0	Planetary Data Workshop: Ca... by Susie Slavney 21 February 2012 - 10:48 AM
For data users Topics: 14 Replies: 26	CRISM Bad Bands by Susie Slavney 02 March 2012 - 12:24 PM

PDS Geo Tools

Forum	Last Post Info
Analyst's Notebook Topics: 8 Replies: 7 Announcements Using the Notebook Feature requests	MER Notebook Release 31 by Jennifer Ward 28 February 2012 - 12:08 PM
ODE - Orbital Data Explorer Topics: 33 Replies: 6 Announcements Using ODE Feature requests	New HIRISE Data (through Or... by K.J. Bennett 06 February 2012 - 08:52 AM

Additional Content

Latest Files

- sgs_read.txt by Susie Slavney (09 November 2011 - 02:41 PM)
- Introduction to CAT by Tom Stein (13 June 2011 - 07:21 AM)
- CAT (CRISM Analysis Toolkit) User's Guide by Tom Stein (13 June 2011 - 07:00 AM)
- CAT (CRISM Analysis Toolkit) Installation Guide by Tom Stein (13 June 2011 - 07:00 AM)
- CAT (CRISM Analysis Toolkit) by Tom Stein (10 June 2011 - 06:18 AM)

Recent Topics Added

- MRO Release 20** by Susie Slavney Mar 01 2012 02:46 PM
- MER Notebook Release 31** by Jennifer Ward Feb 28 2012 12:08 PM
- LOLA Roughness Data** by Sarah020 Feb 28 2012 11:33 AM
- New Mars Express ASPERA Data** by Susie Slavney Feb 28 2012 09:55 AM
- Mars Exploration Rover Release 31** by Susie Slavney Feb 28 2012 08:55 AM

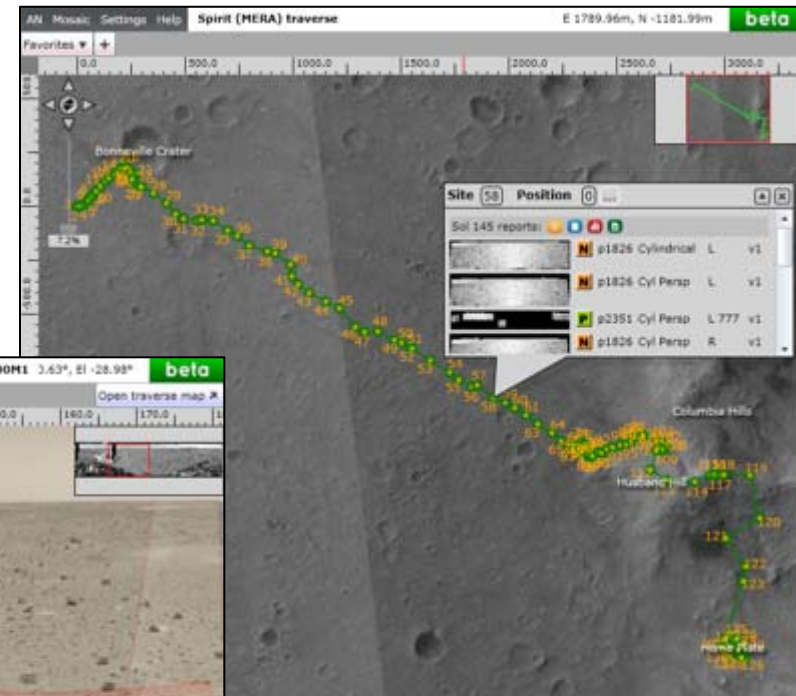
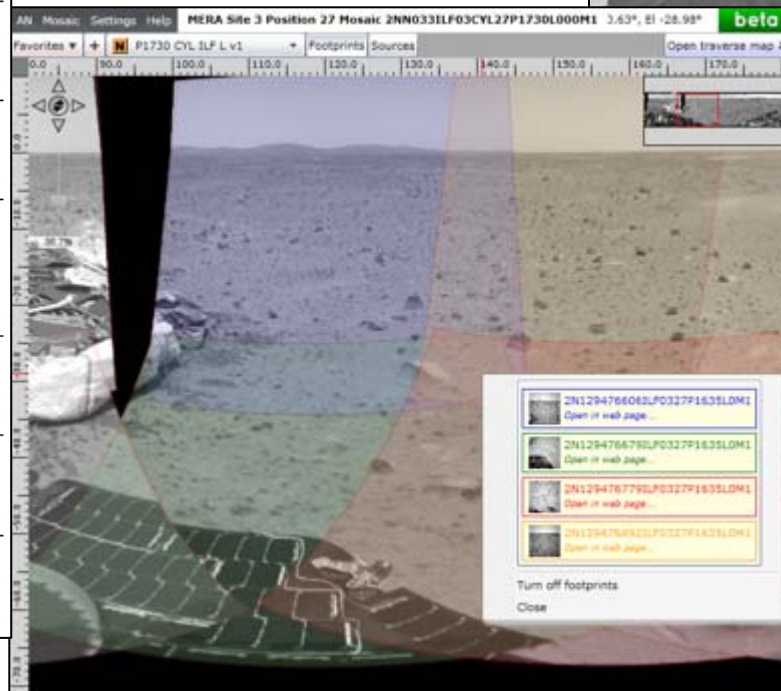
<http://geoweb.rsl.wustl.edu/community/>

Analyst's Notebook Mosaic Viewer

- High resolution traverse maps and mosaics.
 - Zoom on demand.
 - Links to other MER data.
 - Easy file download.

Open Spirit traverse map site 3 in external browser ↗

	N P1515	Cylindrical	R v2
	Sols 11-12	3/0	32 frames
Open in Mosaic Viewer ↗	Show in product window		
	N P1515	Cyl Persp	R v2
	Sols 11-12	3/0	32 frames
Open in Mosaic Viewer ↗	Show in product window		
	N P1515	Polar	L v2
	Sols 11-12	3/0	27 frames
Open in Mosaic Viewer ↗	Show in product window		
	N P1515	Cylindrical	L v2
	Sol 12	3/0	6 frames
Open in Mosaic Viewer ↗	Show in product window		
	N P1515	Cyl Persp	L v2
	Sol 12	3/0	6 frames
Open in Mosaic Viewer ↗	Show in product window		
	N P1515	Perspective	L v2
	Sol 12	3/0	6 frames
Open in Mosaic Viewer ↗	Show in product window		



AN Target Viewer

- Targets are now integrated in the Notebook.
- Search by name, sol, or site/position.
- View targets plotted on locator frames.
- Find related targets and images.

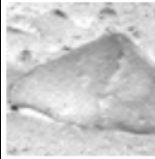
TARGET SEARCH ?

Select or type the name of a target using the list below or choose a site and position.


Name

Site	Target	Site	Sol
	Adirondack	3	12
	Adirondack	3	16
	Adirondack Flats	3	12
	Adirondack Ripple	3	12
	Armadillo	5	39
	back-armadillo	5	39
	Reading	69	167

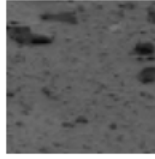
A total of 7 items



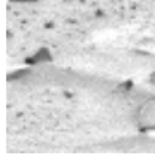
Adirondack
Site 3, Pos 0
Defined Sol 12



Adirondack
Site 3, Pos 27
Defined Sol 16



Adirondack Flats
Site 3, Pos 0
Defined Sol 12



Adirondack Ripple
Site 3, Pos 0
Defined Sol 12



Analyst's Notebook Plans

- Improve search function to allow integrated searching of targets and documents.
- Provide additional data format transformations.
- Improve download function.



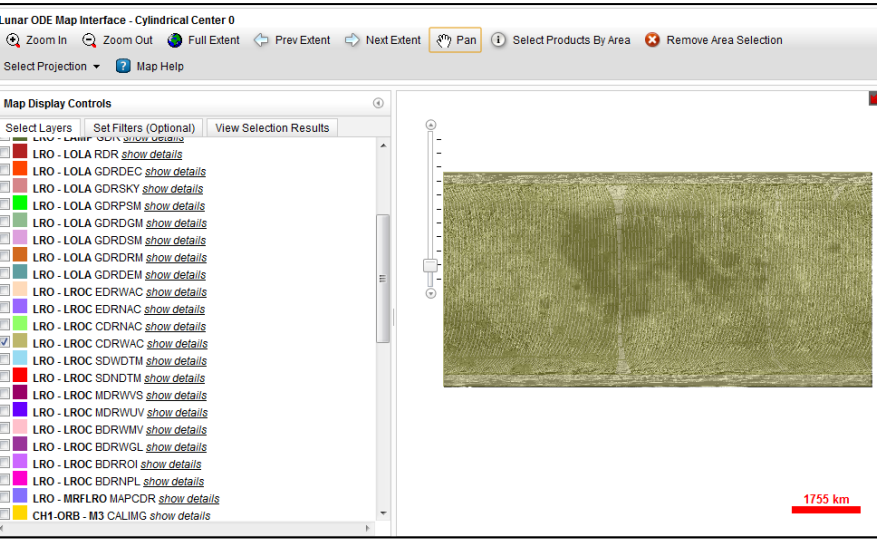
Orbital Data Explorer



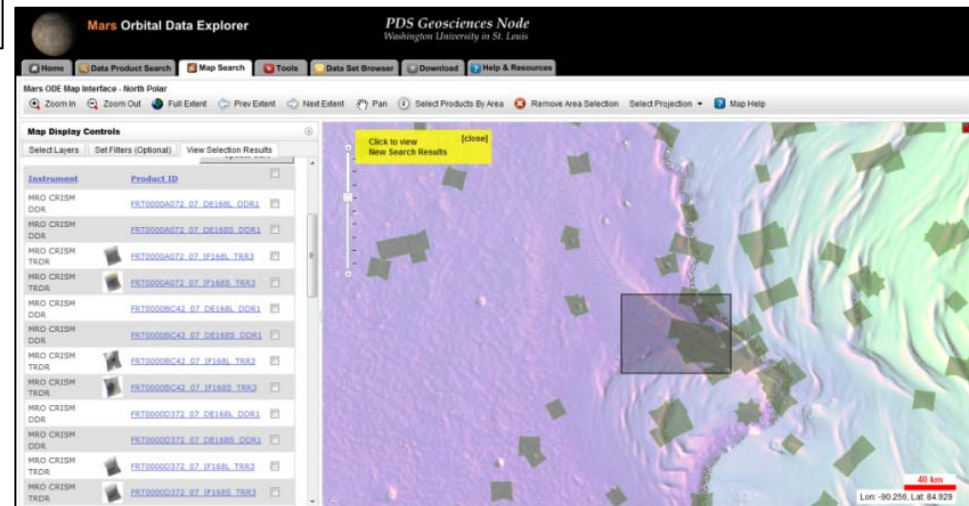
- Web interface for searching orbital data observations.
- New data sets in ODE.
 - Odyssey GRS and THEMIS (in review).
 - Viking Orbiter Camera.
 - Chandrayaan-1 Mini-RF.
 - Lunar Orbiter Camera.

Orbital Data Explorer Map Interface

- Interactive map interface was released in November 2011.
- Provides functionality for viewing data product footprints on several basemaps.



- Search for data products by region and by named features.
- View selected products.



ODE for Venus

- Currently under development. Expect public release by June 2012.
- Initial release will include F-MIDR, Cx-MIDR, and possibly other data sets.

Venus Orbital Data Explorer
PDS Geosciences Node
Washington University in St. Louis

Home Data Product Search Map Search Tools Data Set Browser Download Help & Resources

SEARCH RESULTS Output Results View on Map Back To Search

Products Found: 1,255
 Display Product Thumbnails Update Cart

Instrument	Type	Product ID	Obs. Time
MGN RDRS	FMIDR	F-MIDR_25N333;1	
MGN RDRS	FMIDR	F-MIDR_25N333;201	
MGN RDRS	FMIDR	F-MIDR_25N345;1	
MGN RDRS	FMIDR	F-MIDR_25N345;301	
MGN RDRS	FMIDR	F-MIDR_25N351;1	
MGN RDRS	FMIDR	F-MIDR_25N351;301	
MGN RDRS	FMIDR	F-MIDR_25N357;1	
MGN RDRS	FMIDR	F-MIDR_25N357;301	
MGN RDRS	FMIDR	F-MIDR_25S003;1	
MGN RDRS	FMIDR	F-MIDR_25S009;1	
MGN RDRS	FMIDR	F-MIDR_25S034;1	
MGN RDRS	FMIDR	F-MIDR_25S082;1	
MGN RDRS	FMIDR	F-MIDR_25S082;301	
MGN RDRS	FMIDR	F-MIDR_25S095;1	
MGN RDRS	FMIDR	F-MIDR_25S101;1	
MGN RDRS	FMIDR	F-MIDR_25S131;1	
MGN RDRS	FMIDR	F-MIDR_25S131;201	
MGN RDRS	FMIDR	F-MIDR_25S137;1	

F-MIDR_25S101;1
Product Description: Magellan F-MIDR (Full-Resoluti [\[more...\]](#))
[More About this Product Type \(help page\)](#)
[PDS Volume](#) [AAREADME.TXT](#) [ERRATA.TXT](#)

Browse Meta Data Label Map Context

Browse Image - the image below is not the actual data product

Add Product to Cart Remove Product from Cart [Cart & Download Help](#)

PDS Product Files **Derived Files**

Product Files & Labels	KB
f01.img	1,051
Product Data File	

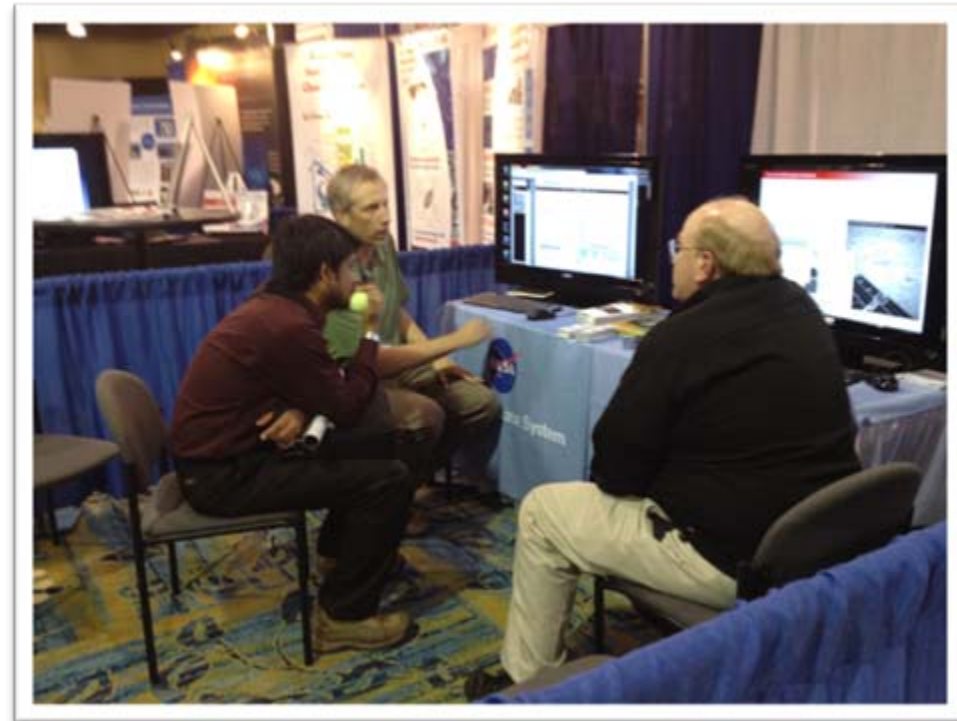
Spectral Library

Data types supported will include:
 Reflectance, Emission, Raman,
 X-Ray Fluorescence, X-Ray
 Diffraction, LIBS, Microprobe.

Search by keyword, sample classification, data type, or data provider.

Meetings and Workshops

- CRISM Team Data Users' Workshop, March 18, 2012.
 - Supported workshop by presenting how to acquire CRISM data through ODE.
 - Prototype MTRDR products were included in ODE for the workshop.
- LPSC, March 19-22, 2012.
 - Demos of AN and ODE and new tools that we are developing.
 - Received feedback on tools and suggestions for adding new features.



Mission Work: Active Missions

- Active missions delivering data to Geosciences.
 - Mars – Odyssey, MER, Mars Express, and MRO.
 - Mercury – MESSENGER.
 - Moon – LRO.
- Deliveries for these missions are going smoothly.
- We average at least one delivery each month, sometimes more.

Mission Work: Mars Science Laboratory (Curiosity)

- Background
 - MSL landing is Aug. 5, 2012.
 - First data release is Feb. 27, 2013, then a release every 90 sols.
 - Ten science instruments plus engineering instruments, data to be archived at Geo, Img, Atm, and PPI.
 - OPGS (Operations Product Generation System) creates all operations products and all instruments' EDR products (except MSSS cameras).
- Status
 - **All teams are behind schedule. Some are WAY behind schedule.** The 3 MSSS cameras don't even have a schedule.
 - A few peer reviews have been started. **None has finished.** Teams and OPGS are very slow to respond to liens.
 - End-to-end delivery tests with PDS should begin this summer, but most teams have nothing ready to test.
- PDS and Project Deputy Scientist Joy Crisp have tried to integrate archive development with Project schedule, but archiving gets very low priority.

Mission Work: GRAIL

- Background
 - GRAIL began collecting data from lunar orbit March 7, 2012
 - First data release is Dec. 13, 2012, second release Oct. 11, 2013.
 - Twin spacecraft generate radio science data that are used to create gravity data products.
 - Both types to be archived at Geosciences Node.
 - Dick Simpson serves as our Radio Science advisor.
- Status
 - Archive development schedule was revised when work got behind.
 - GRAIL team is editing Archive Volume and Data Product SIS.
 - Delivery to PDS for review expected by March 30.

NSSDC Deliveries

- To date 2,339 distinct volumes have been delivered to NSSDC.
 - Includes data sets that are no longer accumulating.
- Began processing first accumulating data sets, which will include 223 volumes (~650GB).
 - These volumes consists of Odyssey Radio Science and MER (Spirit) data.