SBMT

Searching for Data



A note about internet connectivity

 Users must be connected to the internet to search for data or access data from the SBMT server. If a user attempts to search for data while not connected to the internet, then data cached locally will be displayed after the following warning is shown.



Warning

SBMT had a problem while performing the search. Ignoring search parameters and listing all cached data products.



This SBMT tutorial explains how to:

- Search for and visualize images.
- Search for and visualize spectral data.
- Search for and visualize altimetry data.

This SBMT tutorial explains how to:

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- Search for and visualize spectral data.
- Search for and visualize altimetry data.

Searching for images

- Go to the images tab.
- For several bodies, the name of this tab will be specific to the mission that studied the body (e.g., MSI for Eros, FC for Dawn, AMICA for Itokawa).

433 Eros MSI NIS NLR Lineament Structures

 For other bodies, such as Phobos, the tab is called "Imaging Data".
 Phobos Imaging Data MOLA Structures

Searching for images (cont.)

- You can search for images based on a variety of constraints, which vary depending on the mission.
- Examples include: acquisition time, camera filter, the presence/absence of limbs in the image, distance from spacecraft to the body, image resolution, incidence, emission, and phase angles, and filename.
- You can also search within a region of interest.



Remove All Images Remove All Boundaries

SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gaskell (2008)

 Here are the parameters that can be used to refine image searches.



A note about search criteria: Each pixel in an image has an associated emission, incidence, and phase angle. An image will be included in the search results if at least one of its pixel meets the search criteria. For example, an image with incidence angles from 0.2° to 55° would be included in the results for a search for images with incidence angles between 0° and 1°.



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To search for images in a region of interest, click "Select Region", and then click and drag across the area you want to search on the body. A blue circle will mark the region of interest.





Once you have refined your search parameters, click "Search".



Note: To view all available images, click "Search" without changing the search parameters or selecting a region.



For bodies with multiple imaging datasets, use the hierarchical folders to restrict your search to data from specific missions or instruments.



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Range: 78.168 km

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Visualizing search results

- Images that match your search parameters are listed as search results in control panel.
- You can choose to map images onto the body, show or hide images, visualize the camera frustum, or show only the boundary of the images.



Note: By default, the boundaries of the first 10 images are shown. You can see boundaries of additional images by toggling them on/off using the "Bndr" checkbox next to the filename, changing the setting in the "number boundaries" drop-down box below the search results, or clicking these arrows. Range: 61.439 km

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Click "Map" to show image on body. Once an image is mapped, toggle the "Show" button to quickly show/hide the image.

Note: If you change the resolution of the shape model, you will need to un-map and re-map images in order for them to correctly display on the body. Toggling "Map" loads/unloads an image in memory and takes longer than toggling "Show".



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The "Frus" button shows/hides a projection of the camera's viewing frustum.



Right-clicking on a mapped image (or the filename of a mapped image in the search results) opens a menu with several options.

 Map Image Map Image Boundary Properties...
 Save FITS Image...
 Generate Backplanes...
 Center in Window
 Show Frustum
 Export ENVI Image...
 Export ENVI Image...
 Export INFO File...
 Change Normal Offset...
 Simulate Lighting
 Change Opacity...
 Hide Image
 Boundary Color

Image M0128261418F7_2P_CIF_DBL, Pixel Coordinate = (66.6, 74.1), Raw Value = 0.0477938

Description of menu options

- Map image: toggles the image on/off.
- Map image boundary: toggles the boundary on/off.
- Properties: displays image properties (see next slide).

✓ Map Image

Hide Image

Boundary Color

Map Image Boundary Properties... Save FITS Image... Generate Backplanes... Center in Window Show Frustum Export ENVI Image... Export INFO File... Change Normal Offset... Simulate Lighting Change Opacity...

 Save FITS image: opens a dialog for the user to save the FITS image to a folder of their choice. (If you plan to manipulate the file and bring it back into the Tool, users should also download the INFO file for that image using "Export INFO file".)



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Crop:	Top		14	Rig	ght		2	Bottom		14	Left		2	~
Adjust:	🔽 Inte	Interpolate Pixels			🗌 Select Target 🛛 💆			Apply Adjustments		1.0	Factor	Reset Pointing		ng
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The properties window shows the original image. It allows users to adjust image contrast (stretch), crop the image, and adjust other aspects of how the image is displayed. You can reposition the image if it does not align properly by clicking the buttons. The bottom of the properties panel lists additional useful information about the image.

These changes are immediately applied to the image in the properties panel and on the shape model.

Image M0128261418F7_2P_CIF_DBL, Pixel Coordinate = (8.0, 242.3), Raw Value = 0.052778754

Description of menu options

- ✓ Map Image Map Image Boundary Properties...
 Save FITS Image...
 Generate Backplanes...
 Center in Window
 Show Frustum
 Export ENVI Image...
 Export ENVI Image...
 Export INFO File...
 Change Normal Offset...
 Simulate Lighting
 Change Opacity...
 Hide Image
 Boundary Color
- Generate backplanes: opens a dialog for the user to save image backplanes to their computer (currently output as a DDR.IMG file with a PDS3 label).
- Center in window: centers selected image in rendering panel (reorients shape model to mimic how the spacecraft viewed the body).
- Show frustum: shows/hides projection of camera frustum (equivalent to toggling the "Frus" button in the image list).



SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gaskell (2008)



Description of menu options

- ✓ Map Image Map Image Boundary Properties...
 Save FITS Image...
 Generate Backplanes...
 Center in Window
 Show Frustum
 Export ENVI Image...
 Export ENVI Image...
 Export INFO File...
 Change Normal Offset...
 Simulate Lighting
 Change Opacity...
 Hide Image
 Boundary Color
- Export ENVI image: opens a dialog for a user to export the image in an ENVI-compatible format.
- Export INFO file: opens a dialog for the user to export image pointing information as an INFO file.
- Change normal offset: opens a dialog for the user to change the normal offset (can improve display of overlapping images).

Description of menu options

- Map Image Map Image Boundary Properties...
 Save FITS Image...
 Generate Backplanes...
 Center in Window
 Show Frustum
 Export ENVI Image...
 Export ENVI Image...
 Export INFO File...
 Change Normal Offset...
 Simulate Lighting
 Change Opacity...
 Hide Image
 Boundary Color
- Simulate lighting: makes shape model lighting
 approximate lighting at the time of image acquisition.
- Change opacity: change the opacity of the image so that you can see things beneath it.
- Hide image: hides/unhides the image.
- Boundary color: if image boundary is mapped, allows the user to change the color of the boundary.





View after selecting "simulate lighting" (compare to previous screenshots).

Other image display options

Scroll down in the control panel to see other options.





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These options change the boundaries and images that one sees on the shape but do not change the list of search results.

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These options allow users to save the entire list of images returned by the search, save a list of selected images only, or load in a list of images found by a previous search.





This button shows all of the search results as an preview gallery in the user's default internet browser.





This section allows users to create image cubes. See SBMT user manual for details.





SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gaskell (2008)



This section allows users to create false
 color RGB composites from multispectral images.



-Y1 +Z1 1-Z

Select the image that you want to assign to the red channel and then click "Red". Repeat for green and blue channels.

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SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gaskell (2008)

Right click on the image, and select "Properties" from the pop-up menu.



Color Image M0150569976F2_2P_CIF_DBL

Lat: 0.580° Lon: 200.929° Radius: 11.262 km Range: 197.609 km

Crop the edges of the RGB image as needed, change the stretch on each channel as desired. Then close the properties window.

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	FOV						2.260987°	x 2.9488	887	0		

Color Image M0150569976F2_2P_CIF_DBL

This SBMT tutorial explains how to:

- Search for and visualize images.
- Search for and visualize spectral data.
- Search for and visualize altimetry data.

Searching for spectra

- Go to the tab that contains spectral data.
- For several bodies, the name of this tab will be specific to the mission that studied the body (e.g., NIS for Eros).

433 Eros	MSI	NIS	NLR	Lineament	Structures	Custom Data	►
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Searching for spectra (cont.)

- Many of the search parameters are similar to the ones used to search for images.
- Buttons beneath the search results lists allow users to remove spectral footprints or save/load lists of spectra, similar to the buttons below the list of image search results.
- These similar features will not be re-described here.



SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gaskell (2008)

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Search results appear here, with the first several spectrometer footprints shown on the shape.



433 Eros	MSI	NIS	N	LR	Lineament	Structu	res	Custom Data
Start Date:	2000-,	Jan-11	00:00	00:00	0			
End Date:	2000-	May-14	1 00:0	00:00	0			
S/C Distanc	e from	0	to 1	.00	km			
Incidenc	e from	0	to 1	.80	deg			
Emissio	n from	0	to 1	.80	deg			
Phas	e from	0	to 1	.80	deg			
			Selec	t Reg	jion Cle	ar Region		
1851 spectra	match	ed			Jearen			
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Remo	ve All F	ootprin	ts	S	ave Spectrum	List	Load	Spectrum List
Graysca Custom Red (6 Min Green (9 Min Blue (2	le Formuli) 924.3 0) 989.1 0 0 () 1226	nm 0 Max nm 0 Max 5.8 nm	8	C	0.05 0.05 0.05 0 0			
Min	0	0 Max		C	0.05 0			

SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gaskell (2008)

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Right-clicking on a footprint (or spectrum name in the search result list) brings up a menu with additional options.

Description of menu options

Show footprint: shows/hides spectrometer footprint.

Show Footprint Spectrum... Statistics... Center in Window Show Frustum Show Outline Show Sunward Vector Set Illumination Save Spectrum...

- Spectrum: opens a window that shows the spectrum (see next slide).
- Statistics: opens a window that shows statistics for incidence angle, emergence angle, relative irradiance, phase angle, and reconstructed BRDF across shape model facets (see upcoming slide).





The window that opens when a user clicks "Spectrum..." from the menu.



NIS spectrum 130962772 acquired at 2000-04-12T15:15:46.221Z



NIS spectrum 130962772 acquired at 2000-04-12T15:15:46.221Z

Lat: 42.871° Lon: 50.059° Radius: 6.285 km Range: 74.397 km

Description of menu options

Show Footprint Spectrum... Statistics... Center in Window Show Frustum Show Outline Show Sunward Vector Set Illumination Save Spectrum...

- Center in window: centers spectrometer footprint in viewing panel (similar to image search pop-up menu).
- Show frustum: shows projection of spectrometer frustum (similar to image search pop-up menu).
- Show outline: shows/hides outline of spectrometer footprint (similar to boundaries in image search).

Description of menu options

✓ Show Footprint Spectrum... Statistics... Center in Window Show Frustum Show Outline Show Sunward Vector Set Illumination Save Spectrum...

- Show sunward vector: show/hide a vector that shows the direction to the sun.
- Set illumination: illuminates the shape model to approximate the illumination present on the body at the time of data acquisition.
- Save spectrum: opens a dialog that allows users to save the selected spectrum as a txt file.

433 Eros	MSI	N.S		NLR	Lineamen	t Struc	tures	Custom Data)
Start Date: 2	2000-,	Jan-11	00:	00:00	0				
End Date:	2000-	Mav-1	4 00	:00:00	0				
S/C Distance	from	0	to	100	km				
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Emission	from	0	to	100	dog				
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Coloring									
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Red (6)	924.3	nm			0				
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Green (9)	989.1	nm			٥				
Min	0	0 Max		C	0.05				
Blue (20) 1226	5.8 nm			٥				
Min	0	C Max		(0.05				



The visualization that appears when a user selects "Show Sunward Vector".

NIS spectrum 130962778 acquired at 2000-04-12T15:15:52.221Z

Footprint coloring

- Users can choose to color the spectrometer footprints using grayscale or RBG options.
- Users can also define custom formulas that use the results of simple band math calculations to color the spectrometer footprints.

	SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gaskell (2008)
433 Eros MSI NIS NLR Lineament Structures Custom Data	
Start Date: 2000-Jan-11 00:00:00	
End Date: 2000-May-14 00:00:00	
S/C Distance from 0 to 100 km	
Incidence from 0 to 180 deg	
Emission from 0 to 180 deg	
Phase from 0 to 180 deg	
Select Region Clear Region	
Search	
1851 spectra matched	
130962555, day: 103/2000 (2000-04-12T15:12:07.471)	
130962561, day: 103/2000 (2000-04-12T15:12:13.471) 130962586, day: 103/2000 (2000-04-12T15:12:38.471) 130962592, day: 103/2000 (2000-04-12T15:12:44.471) 130962772, day: 103/2000 (2000-04-12T15:15:44.471) 130962778, day: 103/2000 (2000-04-12T15:15:50.471) 130962803, day: 103/2000 (2000-04-12T15:16:15.471) 130962804, day: 103/2000 (2000-04-12T15:16:16.1471) 130962834, day: 103/2000 (2000-04-12T15:16:46.471) 130963020, day: 103/2000 (2000-04-12T15:19:52.471) 130963051, day: 103/2000 (2000-04-12T15:20:23.471) 130963052, day: 103/2000 (2000-04-12T15:20:54.471) 130963082, day: 103/2000 (2000-04-12T15:20:54.471) 130963088, day: 103/2000 (2000-04-12T15:21:06.471) 130963094 day: 103/2000 (2000-04-12T15:21:06.471) 130963094 day: 103/2000 (2000-04-12T15:21:06.471) 130963094 day: 103/2000 (2000-04-12T15:21:06.471) 130963094 day: 103/2000 (2000-04-12T15:21:06.471) Number Footprints: 10	
Custom Formulas	
Red (6) 924.3 nm	
Min 0 0 Max 0.05 0	Use these options to control the coloring of
Green (9) 989.1 nm 📀	
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Riue (20) 1226.8 nm	
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	SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gas	skell (2008)
433 Eros MSI X.S NLR Lineament Structures Custom Data		😫 🕀 🕀 😥
Start Date: 2000-Jan-11 00:00:00		
End Date: 2000-May-14 00:00:00		
S/C Distance from 0 to 100 km		
Incidence from 0 to 180 deg		
Emission from 0 to 180 deg		
Phase from 0 to 180 deg		
Select Region Clear Region		
Search		
1851 spectra matched		
130962555, day: 103/2000 (2000-04-12T15:12:07.471) 130962561, day: 103/2000 (2000-04-12T15:12:13.471)	0	
130962586, day: 103/2000 (2000-04-12T15:12:38.471)	73	
130962592, day: 103/2000 (2000-04-12115:12:44.4/1) 130962772, day: 103/2000 (2000-04-12115:15:44.471)		
130962778, day: 103/2000 (2000-04-12T15:15:50.471)		
130962803, day: 103/2000 (2000-04-12115:16:15:471) 130962809, day: 103/2000 (2000-04-12115:16 ²¹ 471)		
130962834, day: 103/2000 (2000-04-12T15:15		
130963020, day: 103/2000 (2000-04-12T15:19 Formula List 130963051, day: 103/2000 (2000-04-12T15:20		and the second sec
130963057, day: 103/2000 (2000-04-12T15:2)		the second se
130963082, day: 103/2000 (2000-04-12T15:2) 130963088, day: 103/2000 (2000-04-12T15:2)		the second se
130963094 day 103/2000 (2000–04–12115-21		
Number Footprints: 10 \diamond <		
Remove All Footprints Save Spectru Enter the formula through B64 to re	below using standard infix notation. Use variables B1 fer to specific bands. For example, '(B2 – B1) * 0.5'.	
Grayscale		
Custom Formulas		Clicking "Custom
Red (6) 924.3 nm 🗘	OK Cancel	
Min 0 0 Max 0.05 0		Formulas" opens a
Green (9) 989.1 nm 🗘		
Min 0 0 Max 0.05 0		menu where users can
Blue (20) 1226.8 nm C Add Edit D	lete Close	do band math.
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NIS spectrum 130962778 acquired at 2000-04-12T15:15:52.2212

433 Eros	MSI	NIS		NLR	Lineamen	Struct	ures	Custom Data
Start Date:	2000-	Jan-11	00:	00:00	0			
End Date:	2000-	Mav-14	4 00	00:00				
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S/C Distanc	enom	0	10	100	KIII			
incidenc	e from	0	to	180	deg			
Emissio	n from	0	to	180	deg			
Phas	e from	0	to	180	deg			
			Sele	ct Re	gion C	lear Regior	1	
					Search			
1851 spectra	a match	ed						
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130962561, 130962586	day: 10	3/200	0 (2)	00-00	4-12115:12: 4-12T15:12:	13.471)		
130962592.	day: 10	3/200	0 (2)	00-00	4-12T15:12:	44.471)		
130962772,	day: 10	3/200	0 (2)	000-0	4-12T15:15:	44.471)		
130962778,	day: 10	3/200	0 (20	000-0	4-12T15:15:	50.471)		
130962803,	day: 10	03/200	0 (2)	000-0	4-12T15:16:	15.471)		
130962809,	day: 10	03/200	0 (20	000-0	4-12T15:16:	21.471)		
130962834,	day: 10	03/2000	0 (2)	0-000	4-12715:16:	46.471)		
130963020,	day: 10	3/200	0 (2)	000-0	4-12115.19:	23 471)		
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Number Foo	otprints	: 10		2	<	>		
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Red (B	82-B1)*().5			0			
4	(61) 25	78.9 ni	m					
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internet in the second s		C. C						

SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gaskell (2008)



Users can then color the footprints using the results of these calculations.

This SBMT tutorial explains how to:

- Search for and visualize images.
- Search for and visualize spectral data.
- Search for and visualize altimetry data.

Searching for altimetry data

- Go to the altimetry data tab.
- The name of this tab will be specific to the mission that studied the body (e.g., NLR for Eros, LIDAR for Itokawa, MOLA for Phobos).

433 Eros MSI NIS NLR Lineament Structures Custom Data 🕨

 Users can choose to browse available altimetry data or search for data in a particular region. MSI

NLR Lineament Structures Custom Data

Reset

Available Files

NIS

L00059ND.TAB (2000-02-28T14:30:04.729 - 2000-02-28T23:59:20.718) L00060ND.TAB (2000-02-29T00:00:16.718 - 2000-02-29T23:59:24.689) L00061ND.TAB (2000-03-01T00:00:20.689 - 2000-03-01T23:59:44.660) L00062ND.TAB (2000-03-02T00:00:40.660 - 2000-03-02T23:59:08.632) L00063ND.TAB (2000-03-03T00:00:04.632 - 2000-03-03T23:59:56.603) L00064ND.TAB (2000-03-04T00:00:52.603 - 2000-03-04T23:59:08.574) L00065NG.TAB (2000-03-05T00:00:04.574 - 2000-03-05T23:59:20.546) L00066NG.TAB (2000-03-06T00:00:16.546 - 2000-03-06T23:59:08.517) L00067NG.TAB (2000-03-07T00:00:04.517 - 2000-03-07T23:59:16.489) L00068NG.TAB (2000-03-08T00:00:12.489 - 2000-03-08T23:59:24.460) L00069NG.TAB (2000-03-09T00:00:20.460 - 2000-03-09T23:59:32.431) L00070NG.TAB (2000-03-10T00:00:28.431 - 2000-03-10T23:59:17.403) L00071NG.TAB (2000-03-11T00:00:13.403 - 2000-03-11T23:59:33.374) L00072NG.TAB (2000-03-12T00:00:29.374 - 2000-03-12T23:59:41.345) L00073NG.TAB (2000-03-13T00:00:37.345 - 2000-03-13T23:59:45.317) L00074NG.TAB (2000-03-14T00:00:41.317 - 2000-03-14T23:59:37.288) L00075NG.TAB (2000-03-15T00:00:33.288 - 2000-03-15T17:57:21.267) L00076NG.TAB (2000-03-16T00:00:05.265 - 2000-03-16T23:58:25.236) L00077NG.TAB (2000-03-17T00:00:17.236 - 2000-03-17T23:59:21.208) L00078NG.TAB (2000-03-18T00:00:17.208 - 2000-03-18T23:59:29.179) L00079NG.TAB (2000-03-19T00:00:25.179 - 2000-03-19T23:59:37.151) L00080NG.TAB (2000-03-20T00:00:33.151 - 2000-03-20T23:59:45.123) L00081NG.TAB (2000-03-21T00:00:41.123 - 2000-03-21T23:59:21.094) L00082NG.TAB (2000-03-22T00:00:17.094 - 2000-03-22T23:59:13.066) L00083NG.TAB (2000-03-23T00:00:09.066 - 2000-03-23T23:59:09.037) L00084NG.TAB (2000-03-24T00:00:05.037 - 2000-03-24T23:59:29.009) L00085NG.TAB (2000-03-25T00:00:25.009 - 2000-03-25T23:59:28.980) L00086NG.TAB (2000-03-26T00:00:24.980 - 2000-03-26T23:59:12.952) L00087NG.TAB (2000-03-27T00:00:08.952 - 2000-03-27T23:59:36.923) L00088NG.TAB (2000-03-28T00:00:32.923 - 2000-03-28T23:59:44.895) L00089NG.TAB (2000-03-29T00:00:40.895 - 2000-03-29T23:59:40.866) L00090NG.TAB (2000-03-30T00:00:36.866 - 2000-03-30T23:59:48.838) L00091NG.TAB (2000-03-31T00:00:44.838 - 2000-03-31T23:59:32.809) L00092NG.TAB (2000-04-01T00:00:28.809 - 2000-04-01T23:43:48.781) L00093NG.TAB (2000-04-02T05:44:04.774 - 2000-04-02T23:59:52.753) L00094NG.TAB (2000-04-03T00:00:48.753 - 2000-04-03T23:59:16.724) L00095NG.TAB (2000-04-04T00:00:12.724 - 2000-04-04T23:59:48.696) L00096NG.TAB (2000-04-05T00:00:44.696 - 2000-04-05T23:59:44.667) 100097NC TAR (2000-04-06T00.00.40 667 - 2000-04-06T23.59.32 633) Show Remove All Lidar Data Save...

Browse Search

Displayed Lidar Data

🗹 Show spacecraft position

Radial Offset

Arrestanter (Arrestanter Para)

Switch between Browse and Search modes using these buttons.



NIS

Lineament

vse Search

Structures

Custom Data

Available Files

L01005NG.1AB (2001-01-05100:00:25.422 - 2001-01-05123:59:37.392 L01006NG.TAB (2001-01-06T00:00:05.392 - 2001-01-06T23:59:45.361) L01007NG.TAB (2001-01-07T00:00:13.361 - 2001-01-07T23:59:53.331) L01008NG.TAB (2001-01-08T00:00:21.331 - 2001-01-08T23:59:46.300) L01009NG.TAB (2001-01-09T00:00:14.300 - 2001-01-09T23:59:41.270) L01010NG.TAB (2001-01-10T00:00:09.270 - 2001-01-10T23:59:49.239) L01011NG.TAB (2001-01-11T00:06:21.239 - 2001-01-11T23:59:57.208) L01012NG.TAB (2001-01-12T00:00:25.208 - 2001-01-12T23:59:37.183 L01013NG.TAB (2001-01-13T00:00:05.183 - 2001-01-13T23:59:45.153) L01014NG.TAB (2001-01-14T00:00:13.153 - 2001-01-14T23:59:53.123) L01015NG.TAB (2001-01-15T00:00:21.123 - 2001-01-15T23:59:41.093) L01016NG.TAB (2001-01-16T00:00:09.093 - 2001-01-16T23:59:49.062) L01017NG.TAB (2001-01-17T00:00:17.062 - 2001-01-17T23:59:57.032) L01018NG.TAB (2001-01-18T00:00:25.032 - 2001-01-18T23:59:37.002) L01019NG.TAB (2001-01-19T00:00:05.002 - 2001-01-19T23:59:44.972) L01020NG.TAB (2001-01-20T00:00:12.972 - 2001-01-20T23:59:52.942 L01021NG.TAB (2001-01-21T00:00:20.942 - 2001-01-21T23:59:32.912) L01022NG.TAB (2001-01-22T00:00:00.912 - 2001-01-22T23:59:53.882 L01023NG.TAB (2001-01-23T00:00:21.882 - 2001-01-23T23:59:33.852) L01024NG.TAB (2001-01-24T00:00:01.852 - 2001-01-24T23:59:32.822) L01025NG.TAB (2001-01-25T00:00:00.822 - 2001-01-25T23:59:40.787) L01026NG.TAB (2001-01-26T00:00:08.787 - 2001-01-26T23:59:48.756) L01027ND.TAB (2001-01-27T00:00:16.756 - 2001-01-27T20:57:56.729) L01028ND.TAB (2001-01-28T02:58:04.722 - 2001-01-28T23:59:58.695) L01029ND.TAB (2001-01-29T00:00:26.695 - 2001-01-29T23:59:38.665) L01030ND.TAB (2001-01-30T00:00:06.665 - 2001-01-30T23:59:57.634) L01031ND.TAB (2001-01-31T00:00:25.634 - 2001-01-31T23:59:37 L01032ND.TAB (2001-02-01T00:00:05.604 - 2001-02-01T23:59:45.573 L01033ND.TAB (2001-02-02T00:00:13.573 - 2001-02-02T23:59:40.543 L01034ND.TAB (2001-02-03T00:00:08.543 - 2001-02-03T23:59:40.512) L01035ND.TAB (2001-02-04T00:00:08.512 - 2001-02-04T23:59:48.482) L01036ND.TAB (2001-02-05T00:00:16.482 - 2001-02-05T23:59:56.451) L01037ND.TAB (2001-02-06T00:00:24.451 - 2001-02-06T23:59:33.415) L01038ND.TAB (2001-02-07T00:00:01.415 - 2001-02-07T23:59:41.384) L01039ND.TAB (2001-02-08T00:00:09.384 - 2001-02-08T23:59:49.353) L01040ND.TAB (2001-02-09T00:00:17.353 - 2001-02-09T23:59:57.322) L01041ND.TAB (2001-02-10T00:00:25.322 - 2001-02-10T23:59:37.291 L01042ND.TAB (2001-02-11T00:00:05.291 - 2001-02-11T23:59:45.260) 101043ND TAB (2001-02-12T00:00:41.260 - 2001-02-12T19:42:43.235)

Show

Displayed Lidar Data

Show spacecraft position

Radial Offset

Reset

Click "Show" to see a lidar track on the body. Once a lidar track has been mapped, this button changes to "Remove". Click "Remove" to remove the lidar track from the body.

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Lineament

Search

Structures

Custom Data

Available Files

MSI

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Remove All Lidar Data Show Save. Displayed Lidar Data

🗹 Show spacecraft position **Radial Offset** Reset



Use the slider to trim the lidar track to show only the data of interest.

MSI

Lineament

Structures Search

Custom Data

Available Files

NIS

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Displayed Lidar Data

🗹 Show spacecraft position

Radial Offset Reset

Use this slider to adjust the radial offset of the lidar tracks (e.g., if the tracks are offset from the body).

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Several data search features are similar to those that exist for images and spectra.





Hide All	Show All	Remove All
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> You can also filter by the minimum number of points in a track and by the temporal separation between tracks.



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SBMT - Asteroids > Near-Earth > 433 Eros > Image-based > Gaskell (2008)

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When a user searches by region, all of the lidar tracks that fall within that region appear in the region and in the search results list.







Translate all tracks by a fixed X/Y/Z amount,
drag tracks, or adjust the radial offset to better align lidar data with the shape model.

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SBMT - Asteroids >	Near-Earth > 433 Eros	a > Image-based :	> Gaskell (2008)
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	Trk 315	249	2000-07-31T03:22:21.745000	2000-07-31T03:
8	Trk 316	40	2000-08-01T03:18:38.716000	2000-08-01T03:
	Trk 317	50	2000-08-01T03:24:35.716000	2000-08-01T03:
	Trk 318	1360	2000-08-01T05:54:54.713000	2000-08-01T06:
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	Trk 320	25	2000-08-01T11:09:50.707000	2000-08-01T11:
	Trk 321	257	2000-08-01T11:17:53.706000	2000-08-01T11:
	Trk 322	17	2000-08-02T11:27:17.677000	2000-08-02T11:
	Trk 323	272	2000-08-02T11:28:17.677000	2000-08-02T11:
	Trk 324	16	2000-08-04T02:11:00.630000	2000-08-04T02:
9	Trk 325	45	2000-08-04T02:18:59.630000	2000-08-04T02:
	Trk 326	67	2000-08-04T02:21:58.630000	2000-08-04T02:
9	Trk 327	70	2000-08-06T02:59:56.571000	2000-08-06T03:0
4	Trk 328	8//	2000-08-06106:50:26.566000	2000-08-06107:1
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	Trk 330	97	2000-08-08118:22:04.487000	2000-08-08118:
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Track Color Save Track Save All Visible Tracks Hide Track **Hide Other Tracks Translate Track** Plot Track.

Right-clicking on a track brings up a menu with additional options.

Lidar point acquired at 2000-07-31T03:14:45.745000, ET = 18285349.928282, unmodified range = 31910.324442 m

Lat: 42.837° Lon: 150.101° Radius: 8.001 km Range: 68.689 km

Description of menu options

- Track color: change the color of the selected track.
- Save track: brings up a dialog that allows users to save the selected track (in either its unmodified state or with offsets or translations the user may have applied).

Track Color

Save Track

Hide Track Hide Other Tracks Translate Track Plot Track...

Save All Visible Tracks

 Save all visible tracks: allows users to save all visible tracks to a single file or to a directory (in either the tracks' unmodified states or with offsets or translations the user may have applied).

Description of menu options

- Hide track: hides the current track.
- Hide other tracks: hides all tracks but the current one.

Track Color Save Track

Hide Track Hide Other Tracks Translate Track Plot Track...

Save All Visible Tracks

- Translate track: allows user to specify an X, Y, or Zdirection translation of the track.
- Plot track: creates and displays several useful graphs (see next slide).

Graphs made by "Plot Track"







SBMT

For more information, visit sbmt.jhuapl.edu.

