



Find Overpasses

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Objective: To produce a list of MISR orbits that pass over a specified point or region on a specified date or range of dates. Useful in answering: “Did MISR see a particular fire or dust event?” or “What MISR orbits imaged Japan in Feb, 2012?”

The image shows two windows from the MINX V4.0 software. The 'MISR Overpass Finder' window has input fields for date ranges, local hours, and latitude/longitude ranges, along with a table of search results. The 'Directory for Output Overpass Listings' window shows a file selection interface. Annotations include blue arrows pointing from the 'Find Overpasses' menu item to the 'Add to list' button, from the 'OK' button to the 'Process request' text, and from the 'Selection' box to the 'You must enter a directory name' text. A red circle highlights the title of the second window, and a red arrow points to the 'Selection' box.

MINX V4.0 MISR Overpass Finder

Enter Dates and Locations to Find MISR Overpass Orbits and Times

Local Date or Date Range to Search

Enter Date: 2012-01-12 : 2012-10-15

Enter Local Hours After GMT: 2

(IF 0, Local time = GMT time; click PDF Help)

Lat/Lon or Lat/Lon Range to Search

Enter Latitude: 23.00 : 33.00

Enter Longitude: 80.00 : 95.00

Begin Date	End Date	Begin Lat	End Lat	Begin Lon	End Lon
2012-01-12	2012-10-15	-5,000	5,000	30,000	45,000
2012-01-12	2012-10-15	23,000	33,000	80,000	95,000

MINX V4.0

- MISR Interactive Explorer
- Program Options
 - Show Orbit Location
 - Find Overpasses**
 - Show Camera Image
 - Compare Data Products
 - Animate Cameras
 - Plume Project Preferences
 - Plume Project Utilities
 - Process Plume Project

OK Exit PDF Help About

Directory for Output Overpass Listings

Directory: /Users/dinelson/Overpasses/

Filter: *

Directories: .., quertyax

Files: .., quertyax

Selection: /Users/dinelson/Overpasses/

OK Filter Cancel

- No external inputs are required.
- Avoid using large geographic or time ranges if you intend to create an image for each overpass unless you want hundreds of PNG files.

Display these instructions

Process request

You must enter a directory name in the “Selection” box.

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Enter either a single date or a date range here. The format must be either "YYYY-MM-DD" for a single date or, for a date range, "YYYY-MM-DD : YYYY-MM-DD". The search will begin at midnight local time at the beginning of the first date and will continue through midnight local time at the end of the second date.

Enter the number of hours between GMT and local time at the location(s) you enter.

This number should be negative for time zones west of Greenwich and positive for time zones east. The number of hours you enter will be applied to the search process for ALL the entries in the list you construct. You may also want to adjust for Daylight Saving Time. You may ignore this entry if your Date Range is broader than required.

Note: GMT or Greenwich Mean Time is nearly identical to UTC or Coordinated Universal Time.

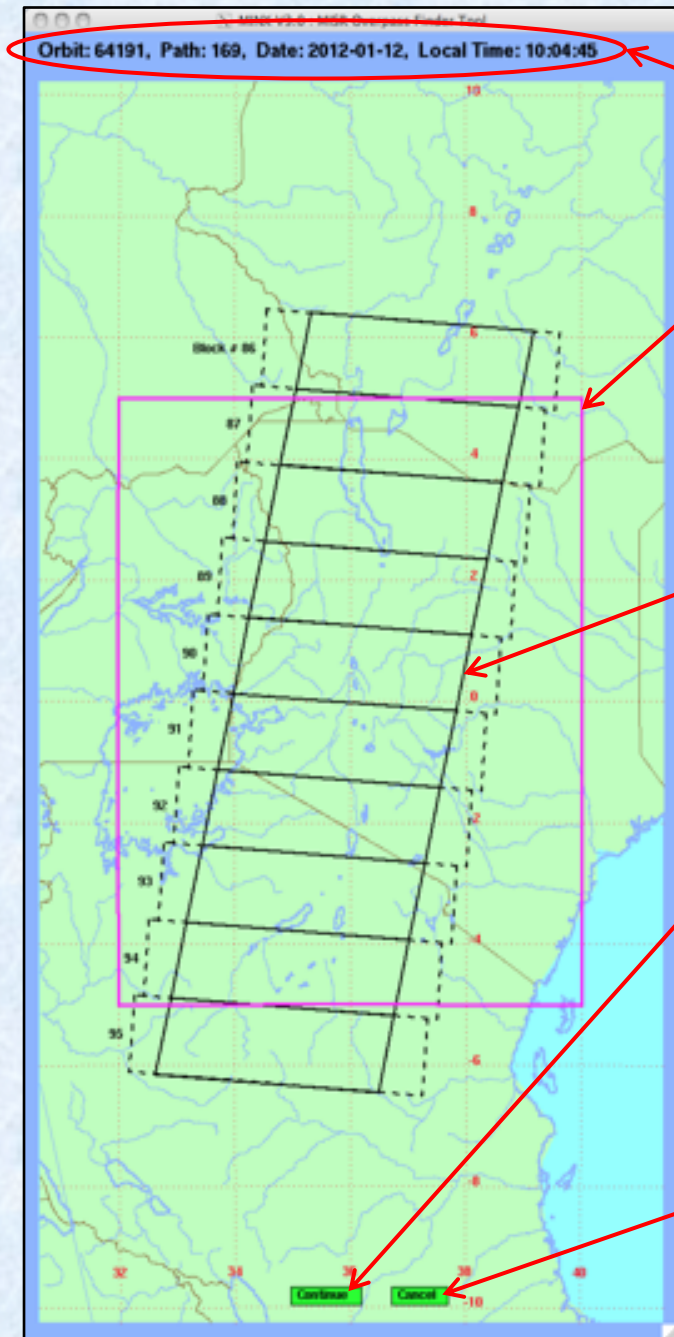
Beg Date	End Date	Beg Lat	End Lat	Beg Lon	End Lon
2012-01-12	2012-10-15	-5,000	5,000	30,000	45,000
2012-01-12	2012-10-15	23,000	33,000	80,000	95,000

When you finish entering data in the left boxes, click "Add to list" to add it here.

Once you have completed the date and location entry, click "Add to list" to copy the information to the list box on the right. Then you can enter more date and location values, each time adding them to the list. If you are not satisfied with an entry in the list, click on the entry to highlight it, and then click "Remove from list" to remove it.

Enter a latitude or latitude range and a longitude or longitude range in decimal degrees. For single points use format "sDD.DDD"; for a region the format is "sDD.DDD : sDD.DDD". The "s" stands in for "+" or "-". The absolute value of latitudes must not exceed 84 deg, and the absolute value of longitudes must not exceed 180 deg. Decimal points are optional.

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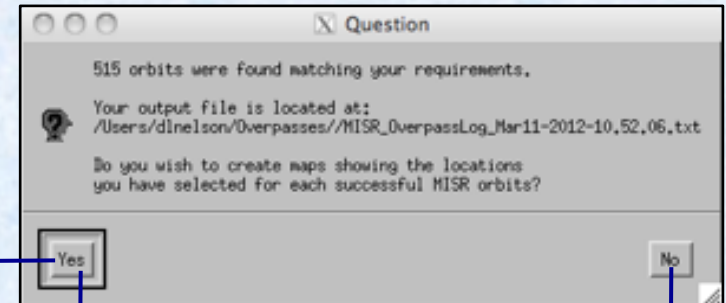
Overpass details for this orbit.

Region specified for finding MISR overpasses.

Orbits are returned only if the specified overpass region intersects the solid black lines of the orbits' swaths.

Click here to show the next overpass image. Text data and images are saved to file.

Click here to stop showing images. Text data will still be written to file, but not images.



Search number : 1
 Input date range : 2012-01-12 to 2012-10-15
 Input lat range : -3.000 to 3.000
 Input lon range : 30.000 to 45.000

List of Orbits satisfying search criteria :

64191, 64220, 64235, 64249, 64264, 64278, 64293, 64322, 64351, 64366, 64380, 64395, 64409, 64424, 64453, 64468, 64482, 64497, 64511, 64526, 64553, 64584, etc.

Orbit	Path	Block	GMT Date	GMT Time	Local Date	Local Time
64191	169	86	2012-01-12	08:04:45	2012-01-12	10:04:45
		95	2012-01-12	08:07:53	2012-01-12	10:07:53
64220	167	86	2012-01-14	07:52:23	2012-01-14	09:52:23
		95	2012-01-14	07:55:31	2012-01-14	09:55:31
64235	174	86	2012-01-15	08:35:39	2012-01-15	10:35:39
		91	2012-01-15	08:37:23	2012-01-15	10:37:23
64249	165	86	2012-01-16	07:40:02	2012-01-16	09:40:02
		95	2012-01-16	07:43:10	2012-01-16	09:43:10
64264	172	86	2012-01-17	08:23:17	2012-01-17	10:23:17
		94	2012-01-17	08:26:04	2012-01-17	10:26:04
64278	163	87	2012-01-18	07:28:01	2012-01-18	09:28:01
		95	2012-01-18	07:30:48	2012-01-18	09:30:48
64293	170	86	2012-01-19	08:10:56	2012-01-19	10:10:56
		95	2012-01-19	08:14:04	2012-01-19	10:14:04
64322	168	86	2012-01-21	07:58:34	2012-01-21	09:58:34
		95	2012-01-21	08:01:42	2012-01-21	10:01:42

etc.

Report file shows a comma-separated list of orbits at the top for convenience in ordering MISR products. Block and time details are in the table below. GMT and local times are shown for the first and last blocks intersected.