



Download MODIS Aerosol Data

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Step 1: Visit <https://urs.earthdata.nasa.gov/users/new>



EARTHDATA LOGIN

Register for an Earthdata Login Profile

Profile Information

Username: •

Password: •

Password Confirmation: •

• Required field

Username must:

- Be a Minimum of 4 characters
- Be a Maximum of 30 characters
- Use letters, numbers, periods and underscores
- Not contain any blank spaces
- Not begin, end or contain two consecutive special characters(. _)

Password must contain:

- Minimum of 8 characters
- One Uppercase letter
- One Lowercase letter
- One Number



Step 2: Add LAADS Web to your Applications

- Login to Earthdata
- Click on **My Applications**
- Click on **Approve More Applications**
- Look for LAADS Web in the list or search
- Add LAADS Web to your applications

You should see LAADS Web in your list of approved applications

Approved Applications

Applications that use your Earthdata Login profile for authentication.

Earthdata Feedback Module	?
Earthdata Website	?
Earthdata Code Collaborative	?
Metadata Management Tool	?
Earthdata Search	✎ ✕
MISR Order and Customization Tool Production test site	✎ ✕
NASA GESDISC DATA ARCHIVE	✎ ✕
LAADS Web	✎ ✎ ✕
SEDAC Website	✎ ✕
LP DAAC Data Pool	✎ ✕



Step 3: Login at <https://ladsweb.modaps.eosdis.nasa.gov/>

The screenshot shows the LAADS DAAC website homepage. At the top left is the NASA EarthData logo and a link to "Other DAACs". The main header is "LAADS DAAC". On the right side of the header are navigation links: "About LAADS", "Find Data", "Data Discovery", "Quality", "Help", and "Profile". Below the header is a large satellite image of a forested area with a "Curvy Contrails" link. The main content area is divided into three blue columns:

- ABOUT LAADS** (What we do):
 - Purpose & Mission
 - About our Atmosphere
 - News
- DATA DISCOVERY** (Information, products, and services):
 - Missions & Measurements
 - Find Data
 - Tools & Services
- QUALITY** (Evaluation and validation):
 - Product Quality Assessment
 - MODIS Atmosphere Product Validation
 - MODIS Land Product Validation



Step 4: Click on “Find Data”

The screenshot shows the LAADS DAAC website interface. At the top, there is a dark blue header with the NASA EARTHDATA logo on the left, 'Other DAACs' with a dropdown arrow, and navigation icons for 'About LAADS', 'Find Data', 'Data Discovery', 'Quality', 'Help', and 'Profile' on the right. Below the header is a large satellite image of a landscape with a 'Curvy Contrails' watermark. The main content area features three blue panels. The middle panel, 'DATA DISCOVERY', contains a red-bordered button labeled 'Find Data' with a mouse cursor pointing to it. Other buttons in the panels include 'Purpose & Mission', 'About our Atmosphere', 'News', 'Missions & Measurements', 'Tools & Services', 'Product Quality Assessment', 'MODIS Atmosphere Product Validation', and 'MODIS Land Product Validation'.



Step 5: Make a Product Selection - Select Sensor

The screenshot shows the LAADS DAAC web interface. At the top left is the NASA logo and 'LAADS DAAC'. On the right, there are navigation links: 'About LAADS', 'Find Data', 'Data Discovery', 'Quality', 'Help', and 'Profile'. Below this is a progress bar with five steps: 1. PRODUCTS (active), 2. TIME, 3. LOCATION, 4. FILES, and 5. REVIEW & ORDER. Below the progress bar, there are status indicators: 'No products selected.', 'No date selected.', 'No location selected.', and 'No files selected.', along with a 'reset' button. A search bar contains the text 'keyword'. A dropdown menu is open under the search bar, titled 'Select a Sensor', with a checkmark. The menu items are: 'Multiple (Ancillary Data)', 'MERIS:Envisat', 'MODIS:Aqua' (highlighted with a blue bar and a mouse cursor), 'MODIS:Combine', 'MODIS:Terra-Aqua', 'MODIS:Terra', 'OLCI:ESA-Copernicus-Sentinel-3A', 'SLSTR:ESA-Copernicus-Sentinel-3A', 'VIIRS:Suomi-NPP', and 'All Sensors'. On the left side of the interface, there are several utility buttons: 'Search by Product', 'Online Archive', 'Filename Search', 'Image Viewer', 'Load/Save Search', and 'Past Orders'.

Step 5: Make a Product Selection - Data Collection

LAADS DAAC

About LAADS Find Data Data Discovery Quality Help Profile

1 PRODUCTS 2 TIME 3 LOCATION 4 FILES 5 REVIEW & ORDER

No products selected. No date selected. No location selected. No files selected. reset

MODIS:Aqua

- Select a Collection
- 4 - MODIS Collection 4 - Atmosphere Full Mission
- 4.1 - MODIS Collection 4.1 - Land Surface Temperature
- 5.1 - MODIS Collection 5.1 - Selected Atmosphere and Land
- 6 - MODIS Collection 6 - Level 1, Atmosphere, Land**
- 61 - MODIS Collection 6.1 - Level 1, Atmosphere, Land

MODIS Terra, Aqua [7]

Atmosphere [12]

- Aerosol [2]
- Water Vapor [1]
- Cloud Properties [1]
- Atmosphere Profiles [2]
- Cloud Mask [2]
- Joint L2 Atmosphere Product [1]
- L3 Atmosphere Product [3]

Land [29]

- Radiation Budget Variables [16]**
 - Land Surface Reflectance [7]
 - Land Surface Temperature & Emissivity [9]
- Ecosystem Variables [9]**
 - Vegetation Indices [6]
 - LAI & PAR [1]

All

Collection (6 - MODIS Collection 6 - Level 1, Atmosphere, Land)

keyword

MYD00F	MODIS/Aqua Level 0 Raw Instrument Packets (5 minutes)	i
MYD01	Level 1A Scans of raw radiances in counts	i
MYD021KM	Level 1B Calibrated Radiances - 1km	i
MYD02HKM	Level 1B Calibrated Radiances - 500m	i
MYD02OBC	Level 1B Onboard Calibrator/Engineering Data	i
MYD02QKM	Level 1B Calibrated Radiances - 250m	i
MYD02SSH	MODIS/Aqua Level 1B Subsampled Calibrated Radiances 5km	i
MYD03	Geolocation - 1km	i
MYD04_3K	MODIS/Aqua Aerosol 5-Min L2 Swath 3km	i
MYD04_L2	MODIS/Aqua Aerosol 5-Min L2 Swath 10km	i

Latest MODIS aerosols data are collection 6.1

Step 5: Make a Product Selection – Data Product

The screenshot displays the LAADS DAAC web interface. At the top, the NASA logo and 'LAADS DAAC' are visible on the left, and navigation links for 'About LAADS', 'Find Data', 'Data Discovery', 'Quality', 'Help', and 'Profile' are on the right. A progress bar at the top indicates five steps: 1. PRODUCTS (active), 2. TIME, 3. LOCATION, 4. FILES, and 5. REVIEW & ORDER. Below the progress bar, there are status indicators: 'No date selected.', 'No location selected.', and 'No files selected.', along with a 'reset' button. The main content area is divided into a left sidebar and a main panel. The sidebar contains navigation options: 'Search by Product', 'Online Archive', 'Filename Search', 'Image Viewer', 'Load/Save Search', and 'Past Orders'. The main panel shows a search for 'MODIS:Aqua' with a dropdown menu listing 'MYD04_3K (6)' and 'MYD04_L2 (6)'. The 'Aerosol' collection is selected, and a list of products is shown, including 'MYD04_3K' and 'MYD04_L2'. The 'MYD04_L2' product is highlighted with a mouse cursor. A 'Clear Selected Products' button is located at the bottom right of the product list.

Step 6: Select Time

LAADS DAAC

About LAADS Find Data Data Discovery Quality Help Profile

1 PRODUCTS 2 TIME 3 LOCATION 4 FILES 5 REVIEW & ORDER

Products (Collection) No date selected. No location selected. No files selected. reset

MODIS:Aqua Select a Collection

Products (Collection) Add product MYD04_3K (6) MYD04_L2 (6)

Aerosol Collection (6 - MODIS Collection 6 - Level 1, Atmosphere, Land) keyword

Clear Selected Products

All [57]

Level-0 / Level-1 [7]

MODIS Terra, Aqua [7]

Atmosphere [12]

Aerosol [2]

Water Vapor [1]

Cloud Properties [1]

Atmosphere Profiles [2]

Cloud Mask [2]

Joint L2 Atmosphere Product [1]

L3 Atmosphere Product [3]

Land [29]

Radiation Budget Variables [16]

Land Surface Reflectance [7]

Land Surface Temperature & Emissivity [9]

Ecosystem Variables [9]

Vegetation Indices [6]

LAL & PAR [1]

Click on the Next Arrow on the right, or click on the **TIME** tab



Step 6: Select Time

The screenshot shows the LAADS DAAC search interface. The navigation bar at the top has five steps: 1 PRODUCTS, 2 TIME, 3 LOCATION (highlighted with a red circle), 4 FILES, and 5 REVIEW & ORDER. Below the navigation bar, there are three status bars: '2 products selected' with a date range of '2017-10-08 .. 2017-12-09', 'No location selected.', and 'No files selected.' with a 'reset' button. The main content area is divided into two panels. The left panel has a 'Date Range' section with a 'Date Range' button (highlighted with a red circle) and a 'Single Date' button. Below this is a 'Display as:' dropdown set to 'YYYY-MM-DD', and two date pickers showing '2017-10-08' and '2017-12-09'. An 'Add Date' button is highlighted with a red circle. The right panel has a 'Date Selection:' section with a 'Clear All' button and a date range '2017-10-08 .. 2017-12-09'. At the bottom, there is a 'Coverage Selection:' section with two radio buttons: 'Day' (checked) and 'Day-Night Boundary'. Explanatory text for each option is provided: '(granules contain day data only)' for 'Day' and '(granules contain data over the seasonal, latitude boundary between day and night)' for 'Day-Night Boundary'. A sidebar on the left contains icons for 'Search by Product', 'Online Archive', 'Filename Search', 'Image Viewer', 'Load/Save Search', and 'Past Orders'. A white text box at the bottom right of the screenshot contains the following instructions:

- Select **Date Range** or **Single Date**
- Click **Add Date**
- Click **LOCATION**



Step 7: Select a Location or Region

LAADS DAAC

1 PRODUCTS 2 TIME 3 LOCATION 4 FILES 5 REVIEW & ORDER

2017-10-08 .. 2017-12-09 W: -123.7°, N: 38.4°, E: -120.6°, S: 35.9° No files selected.

Lat: 36.71°, Lon: -119.86°

SELECT AREA OF INTEREST

- World
- Countries
- Tiles
- Validation Sites
- Draw Custom Box (Classic)**
Draw box on the map. Panning is disabled.
- Enter Coordinates

Current selection:
W: -123.7°, N: 38.4°, E: -120.6°, S: 35.9°

- Select **Draw Custom Box (Classic)**
- Draw a box over the Bay Area, California
- Click the Next Arrow
- The program will start searching data



Step 8: Files

LAADS DAAC

About LAADS Find Data Data Discovery Quality Help Profile

1 PRODUCTS 2 TIME 3 LOCATION 4 FILES 5 REVIEW & ORDER

2 products selected 2017-10-08 .. 2017-12-09 W: -123.7°, N: 38.4°, E: -120.6°, S: 35.9° 236 files selected reset

* Download selected files as json or csv

Search: Showing 1 to 75 of 236 entries Select All Clear All

Filename	Product (collection)	Image	Date / Time	Download
MYD04_3K.A2017281.2105.006.2017282153727.hdf	MYD04_3K (6)		2017-10-08 21:05:00	11 MB
MYD04_L2.A2017281.2105.006.2017282154132.hdf	MYD04_L2 (6)		2017-10-08 21:05:00	5 MB
MYD04_3K.A2017282.2150.006.2017283153744.hdf	MYD04_3K (6)		2017-10-09 21:50:00	10 MB
MYD04_L2.A2017282.2150.006.2017283153836.hdf	MYD04_L2 (6)		2017-10-09 21:50:00	3 MB
MYD04_3K.A2017282.2145.006.2017283153759.hdf	MYD04_3K (6)		2017-10-09 21:45:00	9 MB
MYD04_L2.A2017282.2145.006.2017283153915.hdf	MYD04_L2 (6)		2017-10-09 21:45:00	3 MB
MYD04_3K.A2017282.2010.006.2017283154914.hdf	MYD04_3K (6)		2017-10-09 20:10:00	7 MB
MYD04_L2.A2017282.2010.006.2017283155401.hdf	MYD04_L2 (6)		2017-10-09 20:10:00	4 MB
MYD04_3K.A2017283.2050.006.2017284154548.hdf	MYD04_3K (6)		2017-10-10 20:50:00	10 MB
MYD04_L2.A2017283.2050.006.2017284155153.hdf	MYD04_L2 (6)		2017-10-10 20:50:00	5 MB
MYD04_3K.A2017284.2135.006.2017285155249.hdf			-10-11 21:35:00	16 MB
MYD04_L2.A2017284.2135.006.2017285155410.hdf			-10-11 21:35:00	4 MB
MYD04_3K.A2017285.2215.006.2017286165521.hdf			-10-12 22:15:00	9 MB
MYD04_L2.A2017285.2215.006.2017286165605.hdf			-10-12 22:15:00	3 MB
MYD04_3K.A2017285.2040.006.2017286165607.hdf	MYD04_3K (6)		2017-10-12 20:40:00	9 MB
MYD04_L2.A2017285.2040.006.2017286170047.hdf	MYD04_L2 (6)		2017-10-12 20:40:00	5 MB
MYD04_3K.A2017286.2125.006.2017287160915.hdf	MYD04_3K (6)		2017-10-13 21:25:00	11 MB

- Click **Select All**
- Click the Next Arrow



Step 9: Submit Order

The screenshot shows the 'REVIEW & ORDER' step of the LAADS DAAC data submission process. The interface includes a top navigation bar with the NASA logo and 'LAADS DAAC' text, and a secondary navigation bar with links for 'About LAADS', 'Find Data', 'Data Discovery', 'Quality', 'Help', and 'Profile'. Below this is a progress indicator with five steps: 1. PRODUCTS, 2. TIME, 3. LOCATION, 4. FILES, and 5. REVIEW & ORDER (highlighted). A summary bar shows '2 products selected', the time range '2017-10-08..2017-12-09', location coordinates '-123.7, 38.4, -120.6, 35.9', and '236 files selected'. A 'reset' button is also present.

The main content area is divided into two columns. The left column, titled 'Files Summary:', contains two entries for 'Collection 6':

- MYD04_3K** (Collection 6) [2017-10-08 21:05:00 .. 2017-12-09 21:15:00]
Total: 118 files ✖
The order will generate 118 files.
- MYD04_L2** (Collection 6) [2017-10-08 21:05:00 .. 2017-12-09 21:15:00]
Total: 118 files ✖
The order will generate 118 files.

The right column contains three blue buttons with dropdown arrows: 'Apply Post-Processing', 'Select Delivery Method', and a grey bar indicating 'The order may generate as many as 236 files.' Below these is a blue 'Add another search' button and a green 'Submit Order' button. A red circle highlights the 'Submit Order' button, with a mouse cursor pointing to it.

A left sidebar contains navigation options: 'Search by Product', 'Online Archive', 'Filename Search', 'Image Viewer', 'Load/Save Search', and 'Past Orders'.



Step 10: Download the Data

- After placing your order, check your email for order confirmation
- Follow the instructions in the email to download the data
- Save the data in your directory where you will run your Python scripts or use Panoply

