

Descargar Datos de Aerosoles de MODIS

Herramientas para el Análisis de Conjuntos de Datos Satelitales de la Calidad del Aire de Alta Resolución

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Paso 1: Vaya a <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



Paso 2: Agregue LAADS Web a Sus Aplicaciones

- Ingrese a Earthdata
- Haga clic en **My Applications**
- Haga clic en **Approve More Applications**
- Busque LAADS Web en la lista o utilice la función de búsqueda
- Agregue LAADS Web a sus aplicaciones

LAADS Web debería aparecer en su lista de aplicaciones aprobadas

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 |   |



Paso 3: Ingrese a <https://ladsweb.modaps.eosdis.nasa.gov/>

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



Paso 4: Haga clic en “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, a dropdown menu for "Other DAACs", and navigation icons for "About LAADS", "Find Data", "Data Discovery", "Quality", "Help", and "Profile". 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".



Paso 5: Seleccione un Producto - Seleccione un Sensor

The screenshot displays the LAADS DAAC web interface. At the top left is the NASA logo and the text "LAADS DAAC". The top right contains navigation links: "About LAADS", "Find Data", "Data Discovery", "Quality", "Help", and "Profile". Below the header is a blue navigation bar with five steps: "1 PRODUCTS", "2 TIME", "3 LOCATION", "4 FILES", and "5 REVIEW & ORDER". Underneath this bar, a grey bar shows filters: "No products selected.", "No date selected.", "No location selected.", and "No files selected.", with a "reset" button on the right. The main content area features a search bar with the placeholder text "keyword". A dropdown menu is open, listing sensor options: "Select a Sensor", "Multiple (Ancillary Data)", "MERIS:Envisat", "MODIS:Aqua" (highlighted with a blue bar and a mouse cursor), "MODIS:Combine Terra-Aqua", "MODIS:Terra", "OLCI:ESA-Copernicus-Sentinel-3A", "SLSTR:ESA-Copernicus-Sentinel-3A", "VIIRS:Suomi-NPP", and "All Sensors". On the left side, there is a vertical sidebar with icons and labels: "Search by Product", "Online Archive", "Filename Search", "Image Viewer", "Load/Save Search", and "Past Orders".

Paso 5: Seleccione un Producto – Recolección de Datos

The screenshot displays the NASA 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, status indicators show 'No products selected.', 'No date selected.', 'No location selected.', and 'No files selected.', with a 'reset' button. A search bar on the right contains the text 'keyword'. On the left sidebar, there are icons for 'Search by Product', 'Online Archive', 'Filename Search', 'Image Viewer', 'Load/Save Search', and 'Past Orders'. The main content area is divided into two columns. The left column shows a tree view under 'MODIS:Aqua' with a dropdown menu open, listing various collections. The right column shows a list of products under the heading 'All'.

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)

| | |
|--|---|
| 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 |



Paso 5: Seleccione un Producto –Producto de Datos

The screenshot displays the NASA 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 a 'Search by Product' section with a dropdown menu showing 'Products (Collection)' and 'Add product'. Below this, there are sections for 'MODIS:Aqua' and 'Select a Collection'. The 'Aerosol' collection is selected, and a list of products is shown: 'MYD04_3K (6)' and 'MYD04_L2 (6)'. The 'Aerosol' collection is expanded, showing 'Collection (6 - MODIS Collection 6 - Level 1, Atmosphere, Land)'. The main panel shows a list of products under the 'Aerosol' category. The 'MYD04_3K' product is selected, and its details are shown: 'MODIS/Aqua Aerosol 5-Min L2 Swath 3km'. The 'MYD04_L2' product is also visible, with details: 'MODIS/Aqua Aerosol 5-Min L2 Swath 10km'. A search bar with the placeholder 'keyword' and a 'Clear Selected Products' button are also present.



Paso 6: Haga su Selección Temporal

The screenshot shows the NASA LAADS DAAC search interface. The top navigation bar includes links for 'About LAADS', 'Find Data', 'Data Discovery', 'Quality', 'Help', and 'Profile'. The main interface is divided into five steps: 1. PRODUCTS, 2. TIME, 3. LOCATION, 4. FILES, and 5. REVIEW & ORDER. The 'PRODUCTS' step is currently active, and the 'TIME' tab is highlighted. A dropdown menu is open under 'Products (Collection)', showing 'Add product' and two selected items: 'MYD04_3K (6)' and 'MYD04_L2 (6)'. The 'Aerosol' collection is selected, and two products are listed: 'MYD04_3K' (MODIS/Aqua Aerosol 5-Min L2 Swath 3km) and 'MYD04_L2' (MODIS/Aqua Aerosol 5-Min L2 Swath 10km). A red circle highlights a 'Next' arrow button in the top right corner. A text box in the lower right of the interface reads: 'Haga clic en la flecha “siguiente” a la derecha, o haga clic en la pestaña TIME'.



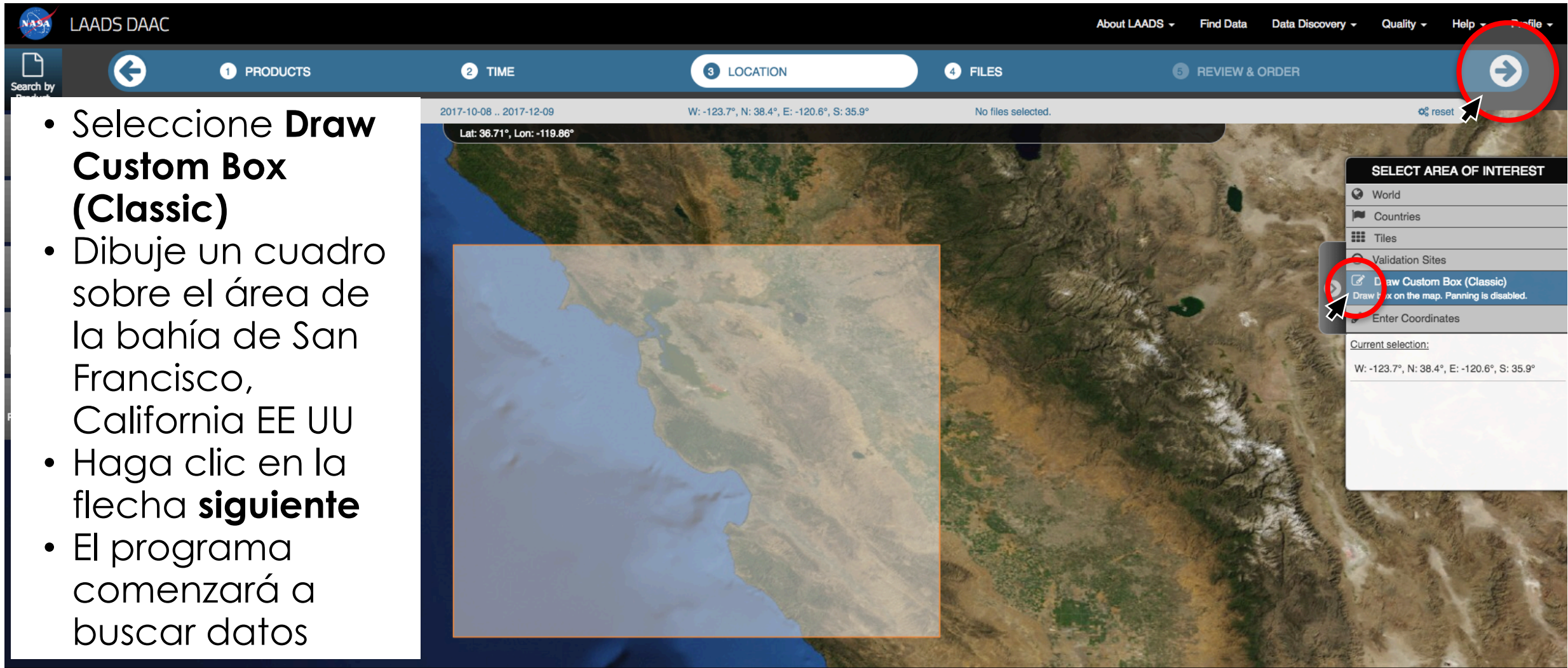
Paso 6: Haga su Selección Temporal

The screenshot displays the LAADS DAAC interface with a navigation bar at the top containing five steps: 1 PRODUCTS, 2 TIME, 3 LOCATION (highlighted with a red circle and a mouse cursor), 4 FILES, and 5 REVIEW & ORDER. Below the navigation bar, a status bar shows '2 products selected', the date range '2017-10-08 .. 2017-12-09', 'No location selected.', 'No files selected.', and a 'reset' button. The main content area is divided into two panels. The left panel has a 'Date Range' tab selected, showing a 'Date Selection' section with a 'Display as: YYYY-MM-DD' dropdown, two date input fields containing '2017-10-08' and '2017-12-09', and a blue 'Add Date' button (highlighted with a red circle and a mouse cursor). Below this is a '+ Advanced' link. The right panel has a 'Date Selection:' section with a text box containing '2017-10-08 .. 2017-12-09' and a 'Clear All' button. At the bottom, the 'Coverage Selection:' section shows the 'Day' radio button selected, with a note '(granules contain day data only)', and the 'Day-Night Boundary' radio button unselected, with a note '(granules contain data over the seasonal, latitude boundary between day and night)'. A sidebar on the left contains icons for 'Search by Product', 'Online Archive', 'Filename Search', 'Image Viewer', 'Load/Save Search', and 'Past Orders'.

- Seleccione **Date Range** o **Single Date**
- Haga clic en **Add Date**
- Haga clic en **Location**



Paso 7: Seleccione una Ubicación o Región



LAADS DAAC

Search by Product

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. reset

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°

- Seleccione **Draw Custom Box (Classic)**
- Dibuje un cuadro sobre el área de la bahía de San Francisco, California EE UU
- Haga clic en la flecha **siguiente**
- El programa comenzará a buscar datos



Paso 8: Archivos

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 |

- Haga clic en **Select All**
- Haga clic en la flecha “siguiente”



Paso 9: Envíe Su Pedido

The screenshot shows the NASA LAADS DAAC interface at the 'REVIEW & ORDER' step. The breadcrumb navigation includes: PRODUCTS, TIME, LOCATION, FILES, and REVIEW & ORDER. The current step is highlighted. Below the navigation, filters show '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 visible. The 'Files Summary' section lists two products: 'MYD04_3K (Collection 6)' and 'MYD04_L2 (Collection 6)', both with a total of 118 files. The right side of the interface contains three dropdown menus: 'Apply Post-Processing', 'Select Delivery Method', and a summary bar stating 'The order may generate as many as 236 files.'. At the bottom right, there are two buttons: 'Add another search' and 'Submit Order'. The 'Submit Order' button is highlighted with a red circle and a mouse cursor, indicating the final step of the process.



Paso 10: Descargue los Datos

- Después de enviar su pedido, revise su correo electrónico para su confirmación
- Siga las instrucciones en el correo para descargar los datos
- Guarde los datos en su directorio donde ejecutará los escritos de Python

