



# NOAA's National Centers for Environmental Information

## CLASS Data Access Tutorial

April 24, 2015



NOAA Satellite and Information Service | National Centers for Environmental Information

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# CLASS Home Page (www.class.noaa.gov)

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS

NOAA COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM (CLASS) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

» CLASS Home » Login » Register » Help » About CLASS » **RSS** CLASS Help All NOAA SEARCH

Please select a product to search  »GO

**Around CLASS**

- » Home
- » Search for Data
- » Upload Search
- » Search Results
- » Shopping Cart
- » Order Status
- » Help
- User Account**
- » User Profile
- » User Preferences
- Advanced Options**
- » Download Keys
- Release Info**
- » Version 7.0  
April 14, 2015
- Other Links**
- » CLASS Home
- » NODC
- » NCDC
- » NGDC
- » NESDIS
- » NOAA
- » DOC

**Image source: Suomi NPP VIIRS**

**NEWS**

**Notice - New Data Available:**  
JPSS will now allow access to the NOAA Global Multi sensor Automated Snow/Ice map (GMASI), Northern Hemisphere and for the NOAA Global Multi sensor Automated Snow/Ice map (GMASI), Southern Hemisphere.

**Attention CORS users (06/23/14):**  
Starting January 1, 2014, the National Geodetic Survey's CORS data archived at CLASS now includes GPS+GLONASS data for stations with GNSS-capable equipment. The GLONASS broadcast navigation file (BRDC) is also available for users at the same starting date. (GLO navigation file name example: brdc1680.14g.gz)

CORS data collections include RINEX since 1994 and raw GPS from selected CORS sites since 2004. The original at-sampling rate was retained except where there was only the 30-second decimated rate data. For more info see the CORS CLASS search page.

**Attention Suomi NPP Users:**  
The most recent global NPP operational products are now available in daily tar files for quick and easy downloads at: <ftp://ftp-npp.class.ngdc.noaa.gov/>. Please see the [NPP help page](#) for instructions. Up to the most recent 85 days of data will be available for direct online access.

**Suomi NPP data access status (11/25/14):**  
The majority of S-NPP products are now available and can be ordered through CLASS. The ones available to the public

**SEARCH FOR DATA**

- + Environmental Data from Polar-orbiting Satellites
- + Environmental Data from Geostationary Satellites
- + Defense Meteorological Satellite Program (DMSP)
- + Suomi National Polar-orbiting Partnership (NPP)
- + Sea Surface Temperature data (SST)
- + RADARSAT
- + Altimetry / Sea Surface Height Data (JASON)
- + Global Navigation Satellite Systems (GNSS)
- + Other - Miscellaneous products in CLASS

**SEARCH COLLECTION METADATA**

»GO



# Register to create a user account

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

» CLASS Home » Login » **Register** » Help » About CLASS » RSS

CLASS Help All NOAA SEARCH

Please select a product to search

### User Profile for Guest

Member since 2000-01-01

\*Last Name:  \*First Name:

\*Password:  \*Verify Password:

\*Email Address:

Address 1:

Address 2:

Address 3:

City:  State:

Zip Code:  Country: UNITED STATES

Phone:  Fax:

\* denotes required fields

Register Reset

All users need to register before placing orders within the CLASS system. However, you may search and browse for datasets in CLASS at anytime.

To register click on the **Register** link from the home page. The minimum required fields include your name, e-mail address and password.

Once you submit your information your user-id will appear near the top of the page. Please keep it handy for future logins.

# Set up your user preferences (1)

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS

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» CLASS Home » Login » Register » Help » About CLASS » **RSS**  CLASS Help  All NOAA  » SEARCH

Please select a product to search  » GO

## User Preferences

Please login to make changes to your User Preferences. Any changes made to the default User Preferences will not be saved.

### Online Search Preferences

My default search preference is by  search criteria  dataset

### Notification Preferences

I want to be notified by email when my order is received  Yes  No

I want to be notified by email when each line item is complete  Yes  No

I want to receive by email a summary of my order when processing is complete  Yes  No

I want the summary email to list all files included in my order  Yes  No

### Advanced Options

» Download Keys

Release Info

» Version 7.0 April 14, 2015

Other Links

» CLASS Home

At some point you may wish to set up your User Preferences . The link is found to the right as shown or at the bottom of all CLASS web pages. The User Preferences include:

- Notification preferences
- Delivery preferences
- Data format preferences for AVHRR and GOES data



# Set up your user preferences (2)

» NODC  
» NCDC  
» NGDC  
» NESDIS  
» NOAA  
» DOC

## Delivery Preferences

Include digital signature when available  Yes  No

Prepend TBM/ARS headers to my data sets  Yes  No

Include delivery manifest  Yes  No

Include checksum in delivery manifest  Yes  No

Deliver GOES-R metadata in a separate file  Yes  No

NPP companion files to deliver with data

Package Geolocation with NPP Data Products  Yes  No

De-aggregate NPP Data Products  Yes  No

\*Note: VIIRS Active Fires ARP cannot package geolocation or de-aggregate.  
\*\*Note: Non-Gridded RIPs, other than IVCDB products, cannot package geolocation.

NPP companion files to deliver with software

JASON XGDR files to deliver

Include metadata file with Cal/Val Investigator Container  Yes  No

NCEP companion files to deliver with data

Geolocation  
Auxiliary Data  
ODAD

Test Data

Dataset  
 Metadata  
 Companion Data

Documentation

Delivery preferences



# Set up your user preferences (3)

## AVHRR Data Extraction Preferences

Datatype	Scan Line Selection	Bits/Pixel			Channel Number	Resolution	
		8	10	16		1 Km	4 Km
AVHRR_LAC	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	1 2 3 4 5	<input checked="" type="radio"/>	<input type="radio"/>
AVHRR_HRPT	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	1 2 3 4 5	<input checked="" type="radio"/>	<input type="radio"/>
AVHRR_FRAC	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	1 2 3 4 5	<input checked="" type="radio"/>	<input type="radio"/>
AVHRR_GAC	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	1 2 3 4 5	<input type="radio"/>	<input checked="" type="radio"/>

Data format preferences for AVHRR and GOES data

## GVAR Data Extraction Preferences

Datatype	Subset Flag	Bits/Pixel		Channel Number	Output Format					Spatial Resolution		Map Overlay	
		Geo.	8		16	Area	NetCDF	GIF	JPG	Raw	VIS		IR
GVAR_SND	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	N/A	N/A	<input checked="" type="checkbox"/>
GVAR_IMG	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	1 2 4 8	1 2 4	<input checked="" type="checkbox"/>

# Select data family to search

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS

NOAA COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM (CLASS) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

» CLASS Home » Login » Register » Help » About CLASS » RSS

CLASS Help All NOAA SEARCH

Please select a product to search

» GO

**SEARCH FOR DATA**

- Environmental Data from Polar-orbiting Satellites
- Environmental Data from Geostationary Satellites
- Defense Meteorological Satellite Program (DMSP)
- Suomi National Polar-orbiting Partnership (NPP)
- Sea Surface Temperature data (SST)
- RADARSAT
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- Global Navigation Satellite Systems (GNSS)
- Other - Miscellaneous products in CLASS

**SEARCH COLLECTION METADATA**

**NEWS**

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**Attention Suomi NPP Users:**  
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**Suomi NPP data access status (11/25/14):**

Image source: Suomi NPP VIIRS

**Around CLASS**

- » Home
- » Search for Data
- » Upload Search
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- User Account
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  - » NGDC
  - » NGDC
  - » NESDIS
  - » NOAA
  - » DOC

Select from the drop down menu located above the banner.



# Select data family to search

The screenshot shows the NOAA Comprehensive Large Array-Data Stewardship System (CLASS) website. At the top, there is a navigation bar with links for NOAA HOME, WEATHER, OCEANS, FISHERIES, CHARTING, SATELLITES, CLIMATE, RESEARCH, COASTS, and CAREERS. The main header features the NOAA logo and the text "COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM (CLASS) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION". Below the header, there is a secondary navigation bar with links for CLASS Home, Login, Register, Help, About CLASS, and RSS. A search bar is located on the right side of this bar, with a "GO" button and a "SEARCH" label.

The main content area is divided into several sections. On the left, there is a "Around CLASS" sidebar with a list of links: Home, Search for Data, Upload Search, Search Results, Shopping Cart, Order Status, Help, User Account, User Profile, User Preferences, Advanced Options, Download Keys, Release Info, and Other Links. The "Search for Data" link is highlighted.

The central part of the page shows a search dropdown menu. The dropdown is titled "Please select a product to search" and contains a list of products. The product "JPSS Visible Infrared Imaging Radiometer Suite Sensor Data Record (VIIRS\_SDR)" is highlighted in blue. A red arrow labeled "1" points to this highlighted product. To the right of the dropdown, there is a "GO" button, which is highlighted in yellow. A red arrow labeled "2" points to this button.

Below the search dropdown, there is a "NEWS" section with a "Notice - JPSS will no longer be available for the..." and an "Attention - CORS data (08/20/14)" section. The "Attention - CORS data" section contains the following text: "Starting January 1, 2014, the National Geodetic Survey's CORS data archived at CLASS now includes GPS+GLONASS data for stations with GNSS-capable equipment. The GLONASS broadcast navigation file (BRDC) is also available for users at the same starting date. (GLO navigation file name example: brdc1680.14g.gz) CORS data collections include RINEX since 1994 and raw GPS from selected CORS sites since 2004. The original at-sampling rate was retained except where there was only the 30-second decimated rate data. For more info see the CORS CLASS search page." Below this, there is a section titled "Attention Suomi NPP Users:" with the text: "The most recent global NPP operational products are now available in daily tar files for quick and easy downloads at: <ftp://ftp-npp.class.ngdc.noaa.gov/>. Please see the [NPP help page](#) for instructions. Up to the most recent 85 days of data will be available for direct online access." Below this, there is a section titled "Suomi NPP data access status (11/25/14):" with the text: "The majority of G-NPP products are now available and can be ordered through CLASS. The ones available to the public..."

On the right side of the page, there is a "FOR DATA" section with a list of data categories: Total Data from Satellites, Total Data from Satellites, Meteorological Data (DMSP), National Polar-orbiting Satellites (NPOES), Temperature, and Sea Surface Temperature (SST). Below this, there is a "Global Navigation Satellite Systems (GNSS)" section with a list of products: GPS, GLONASS, and Galileo.

Select the product by highlighting it (1) and then click on the GO button to the right of the selection window (2).

# Search for data – data description (1)

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» CLASS Home » Login » Register » Help » About CLASS » RSS

CLASS Help All NOAA

JPSS Visible Infrared Imaging Radiometer Suite Sensor Data Record (VIIRS\_SDR) » GO

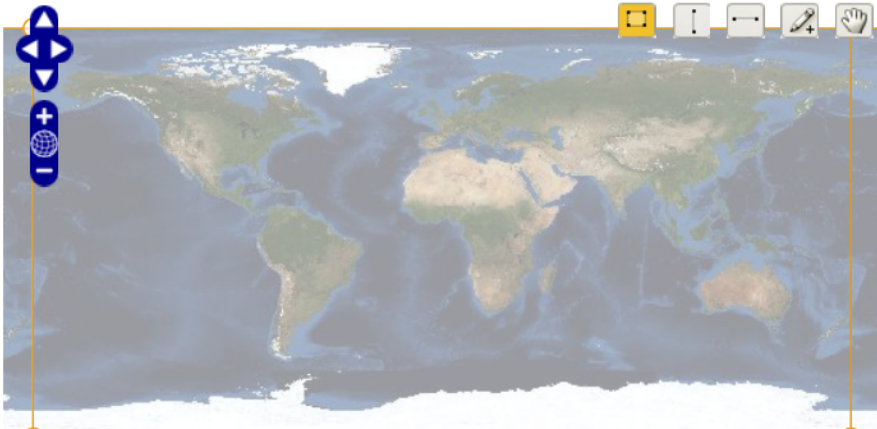
## Search - VIIRS\_SDR

### Data Description

Visible Infrared Imaging Radiometer Suite (VIIRS) Data Records from Suomi NPP - This data family contains the raw, sensor and environmental data records from the Visible Infrared Imaging Radiometer Suite (VIIRS) on board the Suomi National Polar-orbiting Partnership (S-NPP) satellite. VIIRS is a scanning radiometer that collects visible and infrared imagery and radiometric measurements of the land, atmosphere, cryosphere, and oceans. VIIRS data is used to measure cloud and aerosol properties, ocean color, sea and land surface temperature, ice motion and temperature, fires, and Earth's albedo. VIIRS extends and improves upon a series of measurements initiated by the NOAA Advanced Very High Resolution Radiometer (AVHRR) and the NASA Moderate Resolution Imaging Spectroradiometer (MODIS).

**Details - Metadata, Documentation**

### Spatial



90  
-180 180  
-90  
Max Area

On the Search page each data Family contains a Data Description section and an expandable Details table.

# Search for data – details table (2)

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS

NOAA COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM (CLASS) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

» CLASS Home » Login » Register » Help » About CLASS » **RSS** CLASS Help All NOAA SEARCH

JPSS Visible Infrared Imaging Radiometer Suite Sensor Data Record (VIIRS\_SDR) »GO

## Search - VIIRS\_SDR

### Data Description

Visible Infrared Imaging Radiometer Suite (VIIRS) Data Records from Suomi NPP - This data family contains the raw, sensor and environmental data records from the Visible Infrared Imaging Radiometer Suite (VIIRS) on board the Suomi National Polar-orbiting Partnership (S-NPP) satellite. VIIRS is a scanning radiometer that collects visible and infrared imagery and radiometric measurements of the land, atmosphere, cryosphere, and oceans. VIIRS data is used to measure cloud and aerosol properties, ocean color, sea and land surface temperature, ice motion and temperature, fires, and Earth's albedo. VIIRS extends and improves upon a series of measurements initiated by the NOAA Advanced Very High Resolution Radiometer (AVHRR) and the NASA Moderate Resolution Imaging Spectroradiometer (MODIS).

**Details - Metadata, Documentation**

CLASS Beginning Date	20111025	Format	HDF
Ending Date	Present	Format Version	Version 5
ISO Metadata	<a href="#">Complete Record</a>	West Bounding Coordinate	-180
Related Website	<a href="#">S-NPP Mission Website</a>	East Bounding Coordinate	180
Coverage	Geographic Region > Global	North Bounding Coordinate	90
Satellite	Suomi NPP > Suomi National Polar-orbiting Partnership	South Bounding Coordinate	-90
Instruments	VIIRS > Visible Infrared Imaging Radiometer Suite	Product Documentation	<a href="#">S-NPP Documentation</a>
Update Frequency	continual		

Here is the Details table expanded showing additional information and links to metadata and documentation.



# Search for data - spatial search (3)

- » Download Keys
- Release Info
  - » Version 7.0
  - April 14, 2015
- Other Links
  - » CLASS Home
  - » NODC
  - » NCDC
  - » NGDC
  - » NESDIS
  - » NOAA
  - » DOC



51.33	
-87.19	-61.87
18.98	
Max Area	

## Temporal

(maximum range is 366 days)

**Start Date**  
(format: YYYY-MM-DD)  

**Start Time (UTC)**  
(format: HH:MM:SS)

**End Date**  
(format: YYYY-MM-DD)  

**End Time (UTC)**  
(format: HH:MM:SS)


Specify the range of the times for:  Each Day Or  The Entire Range Of Days

Below the data description and metadata table many searches include a map tool to perform spatial searches. You can draw your area of interest using your mouse. Alternatively, you can enter your boundary coordinates in the boxes to the right of the map tool.

# Search for data – temporal search (4)

## Temporal

(maximum range is 366 days)

**Start Date**  
(format: YYYY-MM-DD) 2015-04-19 

**Start Time (UTC)**  
(format: HH:MM:SS) 12:00:00

**End Date**  
(format: YYYY-MM-DD) 2015-04-21 

**End Time (UTC)**  
(format: HH:MM:SS) 21:00:00

Specify the range of the times for:  Each Day Or  The Entire Range Of Days

## Advanced Search

### Datatype


#### Sensor Data Record

- VIIRS Day Night Band SDR (public 02/07/2012)
- VIIRS Imagery Band 01 SDR (public 02/07/2012)
- VIIRS Imagery Band 02 SDR (public 02/07/2012)
- VIIRS Imagery Band 03 SDR (public 02/07/2012)
- VIIRS Imagery Band 04 SDR (public 02/07/2012)
- VIIRS Imagery Band 05 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 01 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 02 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 03 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 04 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 05 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 06 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 07 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 08 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 09 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 10 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 11 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 12 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 13 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 14 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 15 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 16 SDR (public 02/07/2012)

### Node

- Ascending
- Descending
- Either

### Satellite

S-NPP 

Select this for searching within a time interval for consecutive dates.

Enter date range and time range. If searching for a specific time each day select **Each Day** button as shown.



# Search for data – product selection (5)

**Advanced Search**

**Datatype**

**Sensor Data Record**

- VIIRS Day Night Band SDR (public 02/07/2012)
- VIIRS Imagery Band 01 SDR (public 02/07/2012)
- VIIRS Imagery Band 02 SDR (public 02/07/2012)
- VIIRS Imagery Band 03 SDR (public 02/07/2012)
- VIIRS Imagery Band 04 SDR (public 02/07/2012)
- VIIRS Imagery Band 05 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 01 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 02 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 03 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 04 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 05 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 06 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 07 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 08 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 09 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 10 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 11 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 12 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 13 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 14 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 15 SDR (public 02/07/2012)
- VIIRS Moderate Resolution Band 16 SDR (public 02/07/2012)

**Geolocation**

- VIIRS Day Night Band SDR Ellipsoid Geolocation (public 02/07/2012)
- VIIRS Image Bands SDR Ellipsoid Geolocation (public 02/07/2012)
- VIIRS Image Bands SDR Ellipsoid Terrain Corrected Geolocation (public 02/07/2012)
- VIIRS Moderate Bands SDR Geolocation (public 02/07/2012)
- VIIRS Moderate Bands SDR Terrain Corrected Geolocation (public 02/07/2012)

**Node**

- Ascending
- Descending
- Either

**Satellite**

S-NPP

Please note! You do not need to select S-NPP geolocation files. CLASS by default will package them with the data.

Then select datatypes with a checkmark. You can select a Node for polar-orbiting data.



# Search for data – initiating your search (6)

Option 1 →  to place small order after reviewing inventory and granule metadata, including browse images when available.

Option 2 →  to place large order without reviewing inventory or granule (file) metadata.

Now you are ready to place your search for actual datasets.

At the bottom of each Search page there will be two types of searches . For option 1, clicking on the **Search** button will allow you to retrieve an inventory of files from which you can select a limited number of files to order and also the opportunity to view file level metadata .

For option 2, clicking on the **Quick Search & Order** button will allow you to by-pass the inventory listings and to go directly to the Shopping Cart page to place your order. Option 2 will also enable you to place larger orders.

Also, below the search buttons you will have an opportunity to save your search criteria to your local machine for future searches. This comes in handy for placing frequent orders of the same datatypes and spatial extents and satellite-ids.

The final option includes searching on known values such as file name, granule id and orbit number. This tutorial will not explore this option for now.

# Search Results page – inventory listing (1)

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS

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» CLASS Home » Logout » Help » About CLASS » **RSS** CLASS Help All NOAA SEARCH

JPS Visible Infrared Imaging Radiometer Suite Sensor Data Record (VIIRS\_SDR) » GO

### Data Product Search Results - VIIRS\_SDR

→ [click here for a printable listing](#)

Recently Searched Data Sets: VIIRS\_SDR » GO

Currently you have an estimated 240 hit(s) out of 1347879 entries.  
There are 0 (VIIRS\_SDR) items in your shopping cart. The shopping cart limit is 100.

Shopping Cart:     Jump to time interval...

View Details	Shopping Cart	Inventory ID	Satellite	Datatype	Start Date/Time	End Date/Time	Dataset Name	Beginning Orbit Number
<input type="button" value="View"/>	<input type="checkbox"/>	824053273	NPP	VIIRS Moderate Resolution Band 06 Sensor Data Records (VIIRSM6SDR)	2015-04-15 16:57:13.666	2015-04-15 17:02:54.057	SVM06_npp_d20150415_t1657136_e1702540_b17952_c20150415230254704353_noaa_ops.h5	17952
<input type="button" value="View"/>	<input type="checkbox"/>	824053283	NPP	VIIRS Moderate Resolution Band 04 Sensor Data Records (VIIRSM4SDR)	2015-04-15 16:57:13.666	2015-04-15 17:02:54.057	SVM04_npp_d20150415_t1657136_e1702540_b17952_c20150415230254703931_noaa_ops.h5	17952
<input type="button" value="View"/>	<input type="checkbox"/>	824053313	NPP	VIIRS Moderate Resolution Band 07 Sensor Data Records (VIIRSM7SDR)	2015-04-15 16:57:13.666	2015-04-15 17:02:54.057	SVM07_npp_d20150415_t1657136_e1702540_b17952_c20150415230254704563_noaa_ops.h5	17952
<input type="button" value="View"/>	<input type="checkbox"/>	824055693	NPP	VIIRS Day Night Band Sensor Data Records (VIIRSDNSDR)	2015-04-15 16:57:13.666	2015-04-15 17:02:54.057	SVDNB_npp_d20150415_t1657136_e1702540_b17952_c20150415230254574970_noaa_ops.h5	17952
<input type="button" value="View"/>	<input type="checkbox"/>	824055813	NPP	VIIRS Moderate Resolution Band 04 Sensor Data Records (VIIRSM4SDR)	2015-04-15 17:02:55.286	2015-04-15 17:08:35.676	SVM04_npp_d20150415_t1702552_e1708356_b17952_c20150415230835769440_noaa_ops.h5	17952
<input type="button" value="View"/>	<input type="checkbox"/>	824055853	NPP	VIIRS Moderate Resolution Band 06 Sensor Data Records (VIIRSM6SDR)	2015-04-15 17:02:55.286	2015-04-15 17:08:35.676	SVM06_npp_d20150415_t1702552_e1708356_b17952_c20150415230835769880_noaa_ops.h5	17952
				VIIRS Moderate			SVM07_npp_d20150415	

After clicking on the **Search** button (option 1) you will see a listing of datasets (files or granules) and other information. Ten datasets are displayed at a time.

The entire inventory listing can be printed from the link above the results table (see arrow).

# Search Results page – Generate Map (2)

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS

NOAA COMPREHENSIVE LARGE ARRAY STEWARDSHIP SYSTEM (CLASS) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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Release Info

- » Version 7.0 April 14, 2015

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JPSS Visible Infrared Imaging Radiometer Suite

Data Products

Generate Map

Shopping Cart: Goto Cart Update Select Page Un

View Details	Shopping Cart	Inventory ID	Satellite	Data
<a href="#">View</a>	<input type="checkbox"/>	824053273	NPP	VIIRS Moderate Resolution Sensor Data (VIIRSM6SDR)
<a href="#">View</a>	<input type="checkbox"/>	824053283	NPP	VIIRS Moderate Resolution Sensor Data (VIIRSM6SDR)
<a href="#">View</a>	<input type="checkbox"/>	824053313	NPP	VIIRS Moderate Resolution Sensor Data (VIIRSM6SDR)
<a href="#">View</a>	<input type="checkbox"/>	824055693	NPP	VIIRS Day Night Band Sensor Data (VIIRSDNB)
<a href="#">View</a>	<input type="checkbox"/>	824055813	NPP	VIIRS Moderate Resolution Sensor Data (VIIRSM6SDR)
<a href="#">View</a>	<input type="checkbox"/>	824055853	NPP	VIIRS Moderate Resolution Band 06 Sensor Data Records (VIIRSM6SDR)

VIIRS Moderate Resolution Band 06 Sensor Data Records (VIIRSM6SDR)

2015-04-15 17:02:55.286

2015-04-15 17:08:35.676

SVM06\_npp\_d20150415\_t1702552\_e1708356\_b17952\_c20150415230835769880\_noaa\_ops.h5

17952


VIIRS Moderate Resolution Band 06 Sensor Data Records (VIIRSM6SDR)

SVM07\_npp\_d20150415\_

On searches performed on polar-orbiting datasets where a region of the globe was selected, the search results page will include a feature to view swaths on a map. The **Generate Map** button will allow you to see the geographic placement of each file in relation to your search area, which is highlighted in a dashed yellow line.

# Search Results page – Detailed Display (3)

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JPSS Visible Infrared Imaging Radiometer Suite Sensor Data Record (VIIRS\_SDR)

In Shopping Cart

**Data Set Detailed Display:**

<b>Inventory ID</b>	824056083
<b>UUID</b>	f2f4e646-e3c6-11e4-90f1-5cf3fcb8d878
<b>Satellite</b>	NPP
<b>Instrument Short Name</b>	VIIRS
<b>Datatype</b>	VIIRS Moderate Resolution Band 07 Sensor Data Records
<b>Start Date/Time</b>	2015-04-15 17:02:55.286
<b>End Date/Time</b>	2015-04-15 17:08:35.676
<b>Dataset Name</b>	SVM07_npp_d20150415_t1702552_e1708356_b17952_c20150415230835770104_noaa_ops.h5
<b>Dataset Size</b>	40587602
<b>Ingest Date/Time</b>	2015-04-15 23:27:14
<b>Ingest Status</b>	COMPLETE_A
<b>Operational Mode</b>	NPP Normal Operations, VIIRS Operational
<b>Beginning Orbit Number</b>	17952
<b>Ascending/Descending Indicator</b>	Ascending
<b>Product Type</b>	SVM07
<b>Data Type Family</b>	VIIRS_SDR
<b>Collection Short Name</b>	VIIRS-M7-SDR
<b>Ancillary Type Tasked</b>	

Clicking on the **View Details** column on the results page will give you more metadata on the particular file selected. From this page the file can be added to the shopping cart for ordering.

In the case for AVHRR and GOES Imager datasets you can preview a set of browse images at the bottom of the **Detailed Display** page.





# Search Results page – selecting files (4)

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JPSS Visible Infrared Imaging Radiometer Suite Sensor Data Record (VIIRS\_SDR) >>GO

### Data Product Search Results - VIIRS\_SDR

(click here for a printable listing)

Recently Searched Data Sets: VIIRS\_SDR >>GO

Currently you have an estimated 336 hit(s) out of 1347545 entries.  
There are 0 (VIIRS\_SDR) items in your shopping cart. The shopping cart limit is 100.

Shopping Cart: **Goto Cart** Update Select Page Unselect All Jump to time interval... Prev Page Next Page

View Details	Shopping Cart	Inventory ID	Satellite	Datatype	Start Date/Time	End Date/Time	Dataset Name	Beginning Orbit Number
<a href="#">View</a>	<input checked="" type="checkbox"/>	824501243	NPP	VIIRS Moderate Resolution Band 03 Sensor Data Records (VIIRSM3SDR)	2015-04-16 16:45:25.013	2015-04-16 16:51:05.404	SVM03_npp_d20150416_t1645250_e1651054_b1 7966_c20150416225105 780158_noaa_ops.h5	17966
<a href="#">View</a>	<input type="checkbox"/>	824501413	NPP	VIIRS Moderate Resolution Band 07 Sensor Data Records (VIIRSM7SDR)	2015-04-16 16:45:25.013	2015-04-16 16:51:05.404	SVM07_npp_d20150416_t1645250_e1651054_b1 7966_c20150416225105 780895_noaa_ops.h5	17966
<a href="#">View</a>	<input type="checkbox"/>	824502023	NPP	VIIRS Moderate Resolution Band 04 Sensor Data Records (VIIRSM4SDR)	2015-04-16 16:45:25.013	2015-04-16 16:51:05.404	SVM04_npp_d20150416_t1645250_e1651054_b1 7966_c20150416225105 780343_noaa_ops.h5	
<a href="#">View</a>	<input checked="" type="checkbox"/>	824502173	NPP	VIIRS Day Night Band Sensor Data Records (VIIRSDNSDR)	2015-04-16 16:45:25.013	2015-04-16 16:51:05.404	SVDNB_npp_d20150416_t1645250_e1651054_b1 7966_c20150416225105 667934_noaa_ops.h5	
<a href="#">View</a>	<input type="checkbox"/>	824527713	NPP	VIIRS Moderate Resolution Band 04 Sensor Data Records (VIIRSM4SDR)	2015-04-16 18:16:27.367	2015-04-16 18:22:07.757	SVM04_npp_d20150416_t1816273_e1822077_b1 7967_c20150417002208 903083_noaa_ops.h5	
<a href="#">View</a>	<input type="checkbox"/>	824527803	NPP	VIIRS Moderate Resolution Band 03	2015-04-16	2015-04-16	SVM03_npp_d20150416_t1816273_e1822077_b1	

Once your selections are made as indicated by the check marks for each file in the **Shopping Cart** column, click on the **Goto Cart** button as shown.



# Shopping Cart page (1)

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Please select a product to search  >>GO

## Shopping Cart

Total size of selected data sets: 81,089,807 Bytes You will be notified at:   
Number of data sets: 2 Order Comment:

## VIIRS\_SDR

Order	Dataset Name	Include Di
<input checked="" type="checkbox"/>	Click on a dataset name to see the dataset details	
<input checked="" type="checkbox"/>	VIIRSM3SDR SVM03_npp_d20150416_ t1645250_e1651054_b1 7966_c20150416225105 780158_noaa_ops.h5	
<input checked="" type="checkbox"/>	VIIRSM7SDR SVM07_npp_d20150416_ t1645250_e1651054_b1 7966_c20150416225105 780895_noaa_ops.h5	

Now you are ready to place your order on the **Shopping Cart** page. Remember that all orders placed in CLASS are free for electronic download.

For some datasets, such as GOES-Imager data, users can select another output delivery format.



# Shopping Cart page – Advanced Options (2)

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Please select a product to search >> GO

### Shopping Cart

Total size of selected data sets: 81,089,807 Bytes You will be notified at: public.user@anymail.com  
Number of data sets: 2 Order Comment:

**Advanced Options**

Include delivery manifest:  Yes  No  
Include checksum in delivery manifest:  Yes  No

NPP companion files to deliver with data: **Geolocation** Auxiliary Data ODAD

**Package Geolocation with NPP Data Products:**  Yes  No  
De-aggregate NPP Data Products:  Yes  No

PlaceOrder Commit Changes Remove All Reset

### VIIRS\_SDR

VIIRS\_SDR Results VIIRS\_SDR Search Page

Order	Dataset Name	Include
<input checked="" type="checkbox"/>	Click on a dataset name to see the dataset details	
	VIIRSM3SDR SVM03_npp_d20150416_	

**Shopping Cart** page with Advanced Options shown. For most S-NPP datasets the data will be packaged with geolocation files as the default option upon delivery. Also, similar S-NPP datatypes sharing the same geolocation file will be packaged together. This reduces redundancy and volume.

# Shopping Cart page – CLASS order confirmation (3)

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Please select a product to search  » GO

### Shopping Cart

**Confirmation:**

Thank you for placing your order with the Comprehensive Large-Array data Stewardship System.

Your confirmation number is: **1777918814**.

When data becomes available, you will be notified at this address: Axel.Graumann@noaa.gov.

If you have placed a large order, please allow more than 48 hours for delivery of your data. If your order is not delivered within 5 days, please contact the **CLASS Help Desk**. You may check the status of your order at any time by clicking on the **Order Status** link.

**Data Usage Survey**

We are collecting information on data usage. This is a voluntary survey. What will be the primary use of the product/service?

Education  Scientific research  Business  Personal  Legal  Other

**Order Status**

» CLASS Home  
» NODC

Success! Your order is placed and will be ready within 24-48 hours depending on the size of the order. You will receive a notification by e-mail with the details of your order.

On the left side you may click on the **Order Status** link to check on the progress of your order.

A second e-mail is issued when your order is ready with download instructions. Both ftp and http access are provided.



# Order Status page – details of order status

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Please select a product to search  »GO

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## Details for Order Number 1777918814

[Go Back to Order Summary List](#)

<b>Order Number:</b>	1777918814		
<b>Order Type:</b>	User interface	<b>Date and Time:</b>	2015-04-21 18:09:51
<b>Order Status:</b>	Order in Progress	<b>Email Address:</b>	public.user@anymail.com
<b>Total Items:</b>	1		
<b>Available Items:</b>	0	<b>Available Percent:</b>	0%
<b>Delivered Items:</b>	0	<b>Delivered Percent:</b>	0%
<b>Failed Items:</b>	0	<b>Failed Percent:</b>	0%
<b>Estimated Size (Bytes):</b>	176672172	<b>Real Size (Bytes):</b>	0
<b>Order Summary Notification:</b>	Yes	<b>Item Notification:</b>	No
<b>Include Delivery Manifest:</b>	Yes	<b>Manifest Status:</b>	In Progress
<b>Order Comment:</b>	VIIRS SDR Order		

Currently showing **25** results.  
[10](#) | [25](#) | [50](#) | [100](#) | [250](#) | [500](#) | [1000](#)

This order contains 3 datasets

Line Item	Dataset Name	Time of Last Activity	Status	Download
<b>1909845954</b>	Pending	2015-04-21 18:21:57	Retrieving	
	Pending	2015-04-21 18:21:57	Retrieving	
	Pending	2015-04-21 18:21:57	Retrieving	

Under the **Order Status** link you will find a list of your recently placed orders along with the status of each order down to the file level.

If you have any cause for concern or have a question regarding your order please contact the CLASS Help Desk (class.help@noaa.gov)



# Shopping Cart from Quick Search & Order

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Please select a product to search >>GO

## Shopping Cart

Total size of selected data sets: 65,287,457,245 Bytes You will be notified at: public.user@anymail.com  
 Number of data sets: 1836 Order Comment: VIIRS SDR Large order

**Advanced Options**

PlaceOrder Commit Changes Remove All Reset

Quick Search Criteria for VIIRS\_SDR  
 Estimated 1836 hits. Estimated size 65,287,457,245 bytes.

Datatype	VIIRSDNSDR
Datatype	VIIRSM4SDR
Datatype	VIIRSM6SDR
Datatype	VIIRSM7SDR
Node	A
Northern Latitude:	50.63
Southern Latitude:	26.72
Eastern Longitude:	-73.83
Western Longitude:	-92.11
Start Date:	2015-03-01
Start Time: (Times apply for each day.)	00:00:00
End Date:	2015-04-20
End Time:	23:59:59

Delivery Preferences to be applied are set [User Preferences](#)

By clicking on the **Quick Search & Order** button on the Search page, you will be taken to the **Shopping Cart** page, by-passing the inventory results page. This action will enable you to place large orders more quickly.

You will get a summary of the order, including number of files in the order, estimated volume (bytes), and your quick search criteria. See [Levels of Access Services](#) (next page) for more details on maximum file limits for large orders.

# Levels of Access Services - Orders (1)

CLASS order types:	Average completion time	Average File Limit	Contact the CLASS Help Desk?
Ad hoc orders (Use Search button to obtain inventory)	Usually within 12 to 24 hours	Up to 500 files	No
Large orders (use Quick Search & Order button to skip inventory)	24 to 48 hours	1000 to 3000	No
Block orders (use Quick Search & Order button)	> 48 hours	3000 to 6000	Yes
Subscription (standing orders)	< 6-7 hours	No limit	Yes

## Levels of Access Services – FTP (2)

CLASS provides daily tar files containing publicly available S-NPP products (excluding the Raw Data Records) for easy anonymous FTP download at:

<ftp://ftp-npp.class.ngdc.noaa.gov/>

- Most recent 85 days
- 76 datatypes (including Geolocation files)
- Data are compressed and “tar”-ed by datatype
- Sorted by date/instrument-processing level/product
- Includes manifest files (xml format)
- No registration required!

# Assistance and Support

For questions regarding access in CLASS please contact:

[class.help@noaa.gov](mailto:class.help@noaa.gov)

Also, see the CLASS Help section for more information and FAQ's

