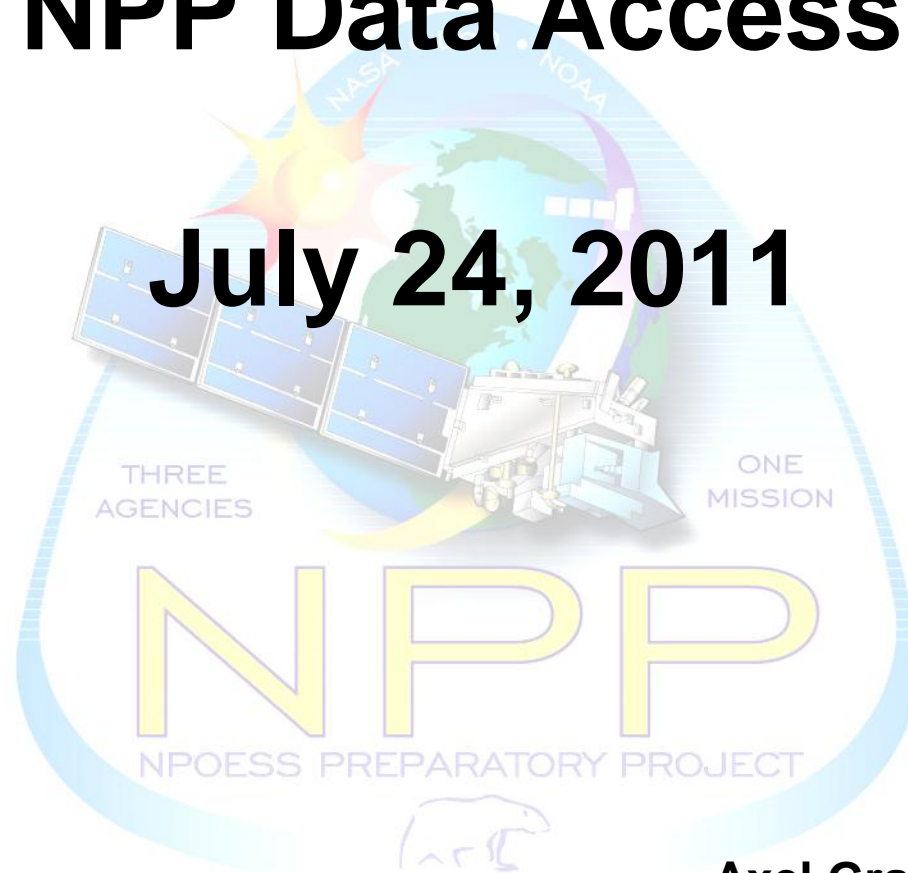




# NPP Data Access

July 24, 2011



**Axel Graumann**  
**NOAA/NESDIS/NCDC**



# Agenda

---

- **NOAA Archives**
  - **Science Data Stewardship**
- **Data for Archive**
- **CLASS Overview**
  - **Data Ingest**
  - **Data Access**
  - **Data Dissemination**
- **Data Access Example**
- **CLASS Future Enhancements**



# NOAA Archives

- **NESDIS Mission:**

**“NOAA's National Environmental Satellite, Data, and Information Service (NESDIS) is dedicated to providing timely access to global environmental data from satellites and other sources to promote, protect, and enhance the Nation's economy, security, environment, and quality of life.**

**To fulfill its responsibilities, NESDIS acquires and manages the Nation's operational environmental satellites, provides data and information services, and conducts related research.”**

- **NOAA National Data Centers**

- **National Climatic Data Center (NCDC)**
- **National Geophysical Data Center (NGDC)**
- **National Oceanographic Data Center (NODC)**

- **NCDC is responsible for the long-term preservation of NPP data**

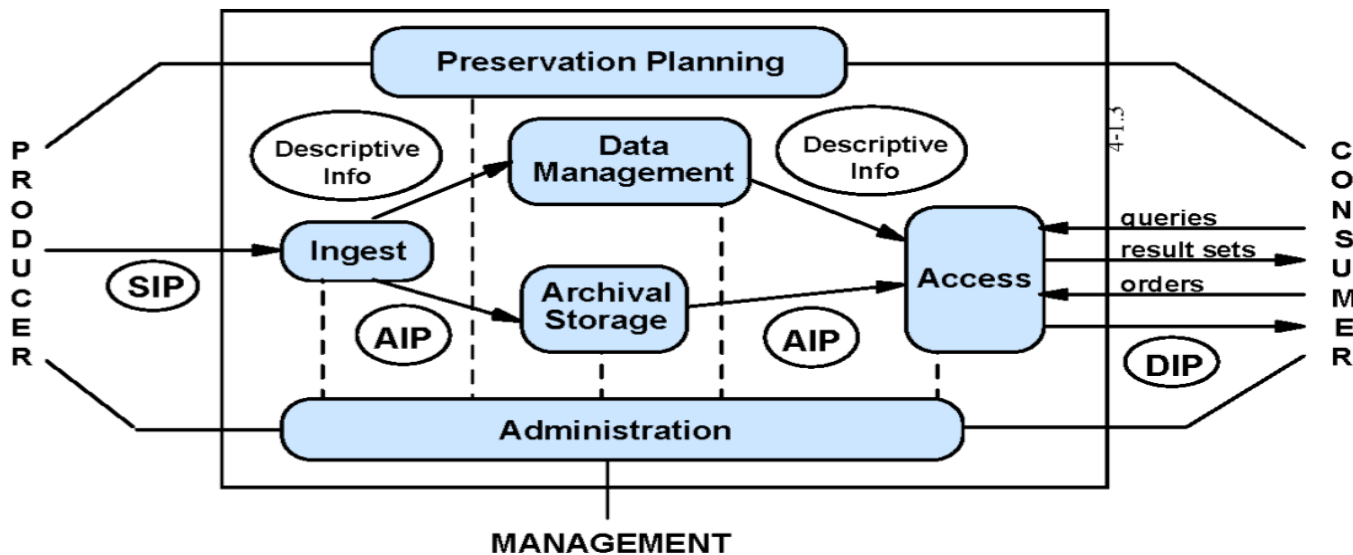
- **Science data stewardship**

- **Not just storing bits and bytes but preservation of the information**
  - **Technology migration**
- **Enhance the information and provide easy access**



# NOAA Archives

- **Functional capabilities required for an archive**
  - From the Open Archival Information System (OAIS) Reference Model





# NPP Data for Archive

---

- **Operational**

- **Visible/Infrared Imager Radiometer Suite**

- VIIRS: RDR, SDR, IP, EDR, ARP

- **Cross-track Infrared Sounder**

- CrIS: RDR, SDR

- **Advanced Technology Microwave Sounder**

- ATMS: RDR, TDR

- **Cross-track Infrared and Microwave Sounder Suite**

- CrIMSS: EDR

- **Ozone Mapping Profiler Suite**

- OMPS: RDR, SDR, IP, EDR

- **Clouds and the Earth's Radiant Energy System**

- CERES: RDR

---



# NPP Data for Archive (2)

---

- **Auxiliary Data:**
    - **Mission Schedules**
    - **Mission Notices**
    - **Revolution Number File**
    - **CERES Auxiliary Files (still being worked)**
  - **Ancillary Data:**
    - **Two-line Elements (TLEs)**
    - **Official Static and Dynamic Ancillary Data**
  - **Release Packages:**
    - **Software**
    - **Documentation**
    - **Supporting Data (Ancillary Data)**
    - **Test Data**
  - **Calibration/Validation Data (still being worked)**
-



# CLASS Overview

- **Comprehensive Large Array-data Stewardship System (CLASS)**
  - **Designated NOAA IT enterprise solution**
    - Supports NOAA's data centers and science data stewardship missions
    - Provides interface for ingest and data access
  - **Example of current data holdings (~35 data families):**
    - Geostationary Operational Environmental Satellite (GOES)
    - Advanced Very High Resolution Radiometer (AVHRR)
    - Defense Meteorological Satellites Program (DMSP)
    - TIROS Operational Vertical Sounder (TOVS/ATOVS)
    - JASON-2 Satellite
  - **Future data holdings:**
    - National Polar-orbiting Operational Satellite System (NPP/NPOESS/JPSS)
    - Geostationary Operational Environmental Satellite (GOES-R)
    - Next-Generation Radar (NEXRAD)
    - National Centers for Environmental Prediction (NCEP) Climate Forecast System Reanalysis (CSFR)
  - **URL: <http://www.class.noaa.gov>**



# CLASS - NPP

- **New campaigns, like NPP, utilize existing CLASS capabilities**
  - Familiar interface, search, order, and dissemination methods
- **Anyone can search for data**
  - Must be registered to order data
  - Can create and save user preferences and search criteria
- **User help**
  - Help desk
  - Help pages
    - Online demo
- **Documentation**
  - Mission and sensor specific
  - Links to external sources





# CLASS – Data Ingest

- **Ingest data from the NPP Ground Segment**
  - **Operational products sent to CLASS after 6 hour delay**
    - > **Guarantees complete/best products are delivered**
  - **Data available from CLASS within 24 hours of generation**
  - **CLASS validates files that are ingested**
  - **Aggregated products are ingested by CLASS**
    - > **Searches are based on the aggregated products but users can order deaggregated products**

<b>NPP Sensor</b>	<b>Granules Per Orbit</b>	<b>Granule Len (sec)</b>	<b># Granules Agg</b>	<b>Storage Agg Len (sec)</b>
CrIS	191	32	10	320
ATMS	191	32	10	320
VIIRS	71	85.7	4	342.8
OMPS	160	38	160	6080
CERES	10	660	1	660



# CLASS – Data Access

- **Search types (web interface)**
  - **Normal/Advanced Search**
    - > **Attributes to search operational data:**
      - Satellite, sensor, product, temporal, geographical
    - > **Attributes to search ancillary/auxiliary data:**
      - Temporal
    - > **Detailed Display provides granule/file level metadata**
  - **Simple Search**
    - > **Satellite, sensor, product, temporal, geographical**
    - > **Automatically copies data to shopping cart**
      - Eliminates the browse capability
      - Higher limit on number of files you are allowed to order
  - **Dataset Name**
    - > **Searches for a specific filename or filename pattern**
  - **Granule ID**
    - > **Provenance search based on granule ID**
      - Returns products utilized to produce an SDR or EDR



# CLASS – Data Access (2)

- **Search types (web interface)**
  - **Beginning Orbit Number**
    - > Returns all aggregations with the specified orbit number
  - **Search Collection Metadata**
    - > **Allows users to search across data families and data types**
      - **Federal Geographic Data Committee (FGDC) compliant**
        - Will be migrated to ISO19115-2
      - **Records are housed in NOAA Metadata Manager Repository and published to NOAAServer**
        - **NOAAServer provides distributed access to NOAA environmental data and information**



# CLASS – Data Order

- **Select items for order**
  - **Operational data**
    - > **Maximum number of files per order is configurable (by CLASS)**
    - > **Established to provide an expected level of service and efficiency**
  - **Associated ancillary and/or auxiliary information**
  - **Package geo-location products with the data products**
- **Subscription**
  - **Provides automatic distribution of specified products**
  - **Products can be ‘pushed’ or ‘pulled’**
  - **Common CLASS interface used for handling subscriptions**
    - > **Request is for continued dissemination, not a one time order**
  - **Contact the CLASS Help desk to be registered for subscription access**



# CLASS – Data Dissemination

- **Delivery Options**
  - **File Transfer Protocol (FTP)**
    - > ‘get’ the ordered files from the CLASS holding zone
    - > Files remain in the holding zone for 48 hours
      - Longer times can be requested, if needed
  - **Bulk Delivery**
    - > It is expected and encouraged to use bulk orders for large orders
    - > It is understood the web interface will not service everyone’s needs
    - > Currently, bulk orders are serviced manually, working to automate
    - > **Distribution media**
      - Magnetic tape
      - FTP



# Data Access Example

- 1. CLASS Web Interface**
- 2. Select Dataset for Search**
- 3. Search for Data**
- 4. Search Results List**
- 5. Detailed Display**
- 6. Granule Metadata Display**
- 7. Select Products for Order**
- 8. Create User Account**
- 9. Set User Preferences**
- 10. Submit Order**
- 11. Order Confirmation**
- 12. Order Status**
- 13. Order Details**
- 14. Email Notification**



# Step 1: CLASS Web Interface



# NOAA

## COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM (CLASS)

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



Please select a product to search

[» GO](#)

### Around CLASS

- [» Home](#)
- [» Search for Data](#)
- [» Upload Search](#)
- [» Shopping Cart](#)
- [» Order Status](#)
- [» Help](#)

### User Account

- [» User Profile](#)
- [» User Preferences](#)

### Advanced Options

- [» Download Keys](#)

### Release Info

- [» Version 5.2](#)
- [September 05, 2009](#)

### Other Links

- [» CLASS Home](#)
- [» NODC](#)
- [» NCDC](#)
- [» NGDC](#)
- [» NESDIS](#)
- [» NOAA](#)
- [» DOC](#)



**Hurricane Katrina**  
GOES 08/28/05

### NEWS

#### Attention:

Orders placed after 20 June may be delayed due to maintenance.

#### Attention Jason-2 Users:

Due to a software bug in the data processing system at ESPC, 117 of the level-2 J2-XGDR files were corrupted prior to reception by CLASS. See the [CLASS Help News](#) for details.

#### Attention NOAA POES Users:

On 2 June 2009 at 0000 UTC, NOAA-19 became the primary afternoon satellite to support NOAA's weather satellite mission. All Local Area Coverage (1 km data) scheduled passes will switch from NOAA-18 to NOAA-19. [Please click here](#) for the full notice.

#### NOAA To Hold 6th GOES Users' Conference:

The 6th GOES Users' Conference, Bringing Environmental Benefits to a Society of Users, organized by the National Oceanic and Atmospheric Administration (NOAA) will be held on 3-5 November 2009 in Madison, Wisconsin. [Click here](#) for more details.

### SEARCH FOR DATA

- Environmental Data from Polar-orbiting Satellites
- Environmental Data from Geostationary Satellites
- Defense Meteorological Satellite Program (DMSP)
- Sea Surface Temperature data (SST)
- RADARSAT
- Altimetry / Sea Surface Height Data (JASON-2)
- Other - Miscellaneous products in CLASS

### SEARCH COLLECTION METADATA

[» GO](#)

### ABOUT

The Comprehensive Large Array-data Stewardship System (CLASS) is an electronic library of NOAA environmental data. This web site provides capabilities for finding and obtaining those data.



# Step 2: Select Dataset for Search

- Around CLASS
- >> Home
- >> Search for Data
- >> Upload Search
- >> Shopping Cart
- >> Order Status
- >> Help
- User Account
- >> User Profile
- >> User Preferences
- Advanced Options
- >> Download Keys
- Release Info
- >> Version 5.2  
September 05, 2009
- Other Links
- >> CLASS Home
- >> NODC
- >> NCDC
- >> NGDC
- >> NESDIS
- >> NOAA
- >> DOC



### NEWS

**Attention:**  
Orders placed

**Attention J:**  
Due to a softw

### Attention NOAA POES Users:

On 2 June 2009 at 0000 UTC, NOAA-19 became the primary afternoon satellite to support NOAA's weather satellite mission. All Local Area Coverage (1 km data) scheduled passes will switch from NOAA-18 to NOAA-19. [Please click here](#) for the full notice.

### NOAA To Hold 6th GOES Users' Conference:

The 6th GOES Users' Conference, Bringing Environmental Benefits to a Society of Users, organized by the National Oceanic and Atmospheric Administration (NOAA) will be held on 3-5 November 2009 in Madison, Wisconsin. [Click here](#) for more details.

- Visible/Infrared Imager/Radiometer Suite (VIIRS)
- MSPPS Orbital Data (MSPPS\_ORB)
- NPP Auxiliary Files (NP\_AUX)
- NPP Documentation (NPDOCL)
- NPP Mission Notices (NP\_MSNNITCE)
- NPP Official Dynamic Ancillary Data (NP\_ODAD)
- NPP Official Static Ancillary Data (NP\_OSAD)
- NPP Software Release Pkg (NP\_SW)
- NPP Spacecraft (NP\_SPCRF1)
- NPP Test Data Release Pkg (NP\_TD)
- OSTM/Jason-2: Ancillary Files (J2-ANC)
- OSTM/Jason-2: Auxiliary Files (partially restricted)(J2-AUX)
- OSTM/Jason-2: Level-2 Geophysical Data Records (J2-XGDR)
- OSTM/Jason-2: NRTAVS QA Reports (J2-QA)
- OSTM/Jason-2: Orbit Information (J2-ORBINFO)
- OSTM/Jason-2: Telemetry (restricted)(J2-TEL)
- Ocean Color SeaWiFS Products (OC)
- Ozone Mapping and Profiler Suite (OMPS)
- Pathfinder (from AVHRR) (AVHRRPF)
- Radiation Budget Data (RBUD)
- Sea Surface Temperature (100 KM Global) (SST100)



>> GO

### SEARCH FOR DATA

- Environmental Data from ... Satellites
- Environmental Data from ... Satellites
- Meteorological ... (DMSP)
- Surface Temperature
- AT
- ... / Sea Surface Height ... (I-2)
- Miscellaneous
- CLASS

### SEARCH COLLECTION METADATA

>> GO

### ABOUT +

The Comprehensive Large Array-data Stewardship System (CLASS) is an electronic library of NOAA environmental data. This web site provides capabilities for finding and obtaining those data.





# Step 3a: Search for Data - VIIRS

- Around CLASS
- >> Home
- >> Search for Data
- >> Upload Search
- >> Shopping Cart
- >> Order Status
- >> Help
- User Account
  - >> User Profile
  - >> User Preferences
- Advanced Options
  - >> Download Keys
- Release Info
  - >> Version 5.2
  - September 05, 2009
- Other Links
  - >> CLASS Home
  - >> NODC
  - >> NCDC
  - >> NGDC
  - >> NESDIS
  - >> NOAA
  - >> DOC

Visible/Infrared Imager/Radiometer Suite (VIIRS) >> GO

## Search - VIIRS

### Data Description

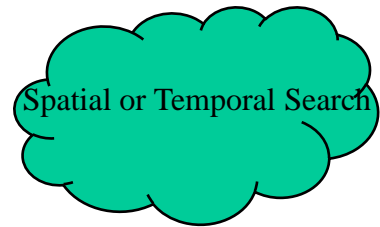
Visible/Infrared Imager/Radiometer Suite (VIIRS) - The Visible Infrared Imager / Radiometer Suite (VIIRS) will combine the radiometric accuracy of the Advanced Very High Resolution Radiometer (AVHRR) currently flown on the NOAA polar orbiters with the high (0.65 kilometer) spatial resolution of the Operational Linescan System (OLS) flown on DMSP. The VIIRS will provide imagery of clouds under sunlit conditions in about a dozen visible channels (or frequency bands), as well as provide coverage in a number of infrared channels for night and day cloud imaging applications.

### Spatial



90  
-180 180  
-90  
Max Area

Note: XY Plane searches are resized to enforce a minimum lat/lon difference of 0.1 degrees.



### Temporal

**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

### Advanced Search



# Step 3b: Search for Data - VIIRS

CLASS Home | Login | Register | Help | CLASS Help | All NOAA | SEARCH

Visible/Infrared Imager/Radiometer Suite (VIIRS) [GO]

## Search - VIIRS

### Data Description

Visible/Infrared Imager/Radiometer Suite (VIIRS) - The Visible Infrared Imager / Radiometer Suite (VIIRS) will combine the radiometric accuracy of the Advanced Very High Resolution Radiometer (AVHRR) currently flown on the NOAA polar orbiters with the high (0.65 kilometer) spatial resolution of the Operational Linescan System (OLS) flown on DMSP. The VIIRS will provide imagery of clouds under sunlit conditions in about a dozen visible channels (or frequency bands), as well as provide coverage in a number of infrared channels for night and day cloud imaging applications.

### Spatial

90  
-180 180  
-90  
Max Area

170.16, -89.61

Note: XY Plane searches are resized to enforce a minimum lat/lon difference of 0.1 degrees.

Dataset Name / Granule ID / Beginning Orbit Number

Dataset Name  Granule ID  Beginning Orbit Number

Beginning Orbit Number format is:  
An integer representing the number of the orbit at the start of the data collection for a data granule. The orbit number is incremented at each ascending node equatorial crossing.

Reset | Simple Search | Search | Save Criteria | Load Criteria | Search Criteria View

Filename, Granule ID, or Orbit Number Search



# Step 3c: Search for Data - ATMS

**Start Date** (format: YYYY-MM-DD)   **Start Time** (format: HH:MM:SS)

**End Date** (format: YYYY-MM-DD)   **End Time** (format: HH:MM:SS)

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

## Advanced Search

### Datatype

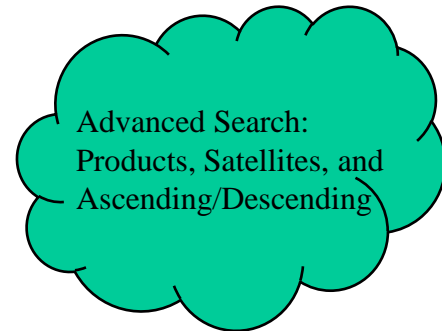
- ATMS Diagnostic RDR
- ATMS Dwell RDR
- ATMS Memory Dump RDR
- ATMS Remapped to CrIS SDR
- ATMS Remapped to CrIS SDR Ellipsoid Geolocation
- ATMS SDR
- ATMS SDR Ellipsoid Geolocation
- ATMS Science RDR
- ATMS TDR
- ATMS Telemetry RDR

### Satellite

NPP  

### Node

- Ascending
- Descending
- Either





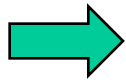
# Step 4: Search Results List

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

Data Sets... **Search Results - VIIRS**

[Printable Listing](#)
Currently you have 263 hits out of 0 entries. There are 0 (VIIRS) items in your shopping cart. The shopping cart limit is 100.

Shopping Cart:    
Page 1 Jump To



View Details	Shopping Cart	Inventory ID	Datatype	Start Date/Time	End Date/Time	Satellite	Dataset Name	Beginning Orbit Number
<input type="button" value="1"/>	<input type="checkbox"/>	7076953	VIIRSSSEDR	2003-01-25 08:33:37.150	2003-01-25 08:35:01.659	NPP	VSSTO_npp_d20030125_t0833371_e0835016_b00015_c2010060901_3653920793_noaa_ops.h5	
<input type="button" value="2"/>	<input type="checkbox"/>	7077303	VIIRSSSEDR	2003-01-24 14:59:33.122	2003-01-24 15:05:13.082	NPP	VSSTO_npp_d20030124_t1459331_e1505130_b00000_c2010060814_2641492673_noaa_ops.h5	
<input type="button" value="3"/>	<input type="checkbox"/>	7077693	VIIRSSSEDR	2003-01-25 01:56:44.232	2003-01-25 01:58:08.741	NPP	VSSTO_npp_d20030125_t0156442_e0158087_b00011_c2010060818_5537367320_noaa_ops.h5	
<input type="button" value="4"/>	<input type="checkbox"/>	7078153	VIIRSSSEDR	2003-01-25 02:05:16.920	2003-01-25 02:06:41.430	NPP	VSSTO_npp_d20030125_t0205169_e0206414_b00011_c2010060819_0041012776_noaa_ops.h5	
<input type="button" value="5"/>	<input type="checkbox"/>	7078833	VIIRSSSEDR	2003-01-25 04:50:17.196	2003-01-25 04:55:57.156	NPP	VSSTO_npp_d20030125_t0450171_e0455571_b00012_c2010060822_1541974384_noaa_ops.h5	
<input type="button" value="6"/>	<input type="checkbox"/>	7079133	VIIRSSSEDR	2003-01-25 05:01:39.589	2003-01-25 05:07:19.549	NPP	VSSTO_npp_d20030125_t0501395_e0507195_b00012_c2010060822_2141943438_noaa_ops.h5	
<input type="button" value="7"/>	<input type="checkbox"/>	7079403	VIIRSSSEDR	2003-01-25 02:13:47.822	2003-01-25 02:15:12.332	NPP	VSSTO_npp_d20030125_t0213478_e0215123_b00011_c2010060819_0035614983_noaa_ops.h5	
<input type="button" value="8"/>	<input type="checkbox"/>	7079563	VIIRSSSEDR	2003-01-25 02:13:47.822	2003-01-25 02:15:12.332	NPP	VSSTO_npp_d20030125_t0213478_e0215123_b00011_c2010060819_0219659042_noaa_ops.h5	
<input type="button" value="9"/>	<input type="checkbox"/>	7079683	VIIRSSSEDR	2003-01-25 02:13:47.822	2003-01-25 02:15:12.332	NPP	VSSTO_npp_d20030125_t0213478_e0215123_b00011_c2010060819_0440739911_noaa_ops.h5	
<input type="button" value="10"/>	<input type="checkbox"/>	7079713	VIIRSSSEDR	2003-01-25 02:15:13.568	2003-01-25 02:16:38.077	NPP	VSSTO_npp_d20030125_t0215135_e0216380_b00011_c2010060819_0235678610_noaa_ops.h5	



# Step 5: Detailed Display

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


CLASS Help All NOAA

Visible/Infrared Imager/Radiometer Suite (VIIRS) >> GO

In Shopping Cart [Back to Summary](#)

### Data Set Detailed Display:

Inventory ID	123189730
Satellite	NPP
Instrument Short Name	VIIRS
Datatype	Sea Surface Temperature Environmental Data Records
Start Date/Time	2003-01-25 08:33:37.150
End Date/Time	2003-01-25 08:35:01.659
Dataset Name	VSSSTO_npp_d20030125_t0833371_e0835016_b00015_c2010060901_3653920793_noaa_ops.h5
Dataset Size	19708272
Ingest Date/Time	2010-06-24 17:21:22
Ingest Status	COMPLETE_A
Operational Mode	29
Beginning Orbit Number	15
Ascending/Descending Indicator	Ascending
Product Type	VSSTO
Data Type Family	VIIRS
Collection Short Name	
Dataset Source	nesdi
Ancillary Type Tasked	Official

 [+ Aggregation Cross References and Granule Details](#)

[Back to Summary](#)

» Home » Search for Data » Upload Search » Search Results » Shopping Cart » Order Status » Help » User Profile » User Preferences » Download Keys » CLASS Help Desk » CLASS Help Desk » Suggestions » IESDIS Privacy Policy » Disclaimer



# Step 6: Granule Metadata Display

>> DOC

## [-] Aggregation Cross References and Granule Details

Aggregation Cross Referencing	
<b>Geolocation</b>	There is no geolocation for this record.
<b>Granule List:</b>	<b>Granule Details:</b>
NPP001212068152	<b>Granule ID</b> NPP001212068152
	<b>Band ID</b>
	<b>Creation Date/Time</b> 2010-06-09 01:35:55.932
	<b>Processing Mode</b>
	<b>Spacecraft Maneuver</b> Normal Operation
	<b>LEOA Flag</b> Not LEOA State
	<b>Day Night Flag</b> Day
	<b>Cloud Cover</b>
	<b>Granule Status</b> N/A
	<b>Percent Missing Data</b> 0.0
	<b>Percent Erroneous Data</b> 0.0
	<b>Percent Not-Applicable Data</b> 74.5394
	<b>Graceful Degradation</b> Y
<b>Quality Summary Names</b>	Bulk Sea Surface Temperature EDR Summary Quality, Bulk Summary Range Check, Degradation Summary - Bulk S ea Surface Temperature, Degradation Summary - Skin S ea Surface Temperature, Exclusion Summary - Bulk Sea Surface Temperature, Exclusion Summary - Skin Sea Surface Temperature, Skin Sea Surface Temperature EDR Summary Quality, Skin Summary Range Check
<b>Quality Summary Values</b>	1, 0, 13, 13, 11, 11, 1, 0
<b>North Bounding Coordinate</b>	-27.2464
<b>South Bounding Coordinate</b>	-36.9716
<b>East Bounding Coordinate</b>	96.7933
<b>West Bounding Coordinate</b>	63.5703
<b>G-Ring Latitude</b>	-27.2464, -29.7108, -32.0398, -35.5643, -36.9716, -34.5033, -31.9106, -30.565
<b>G-Ring Longitude</b>	94.561, 95.6563, 96.7933, 80.885, 64.0167, 63.8058, 63.5703, 79.4466
<b>Reference ID</b>	4c0eefb-e3bb5-0a180212-5634 c682
<b>Granule Version</b>	A2
<b>Software Version</b>	11.5.02.00
<b>Auxiliary Data</b>	There is no auxiliary data for this granule.
<b>Official Dynamic Ancillary Data</b>	There is no Official Dynamic Ancillary Data for this granule.
<b>Official Static Ancillary Data</b>	There is no Official Static Ancillary Data for this granule.
<b>Software</b>	There is no software for this granule.
<b>Documentation</b>	There is no documentation for this granule.



# Step 7: Select Products for Order



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



» CLASS Home » Help

CLASS Help All NOAA  SEARCH

Data Sets...

### Search Results - VIIRS

Currently you have 263 hits out of 0 entries.

There are 8 (VIIRS) items in your shopping cart. The shopping cart limit is 100.

Shopping Cart:

Page 1 Jump To

[VIIRS](#)  
[Printable Listing](#)



View Details	Shopping Cart	Inventory ID	Datatype	Start Date/Time	End Date/Time	Satellite	Dataset Name	Beginning Orbit Number
<input type="button" value="1"/>	<input checked="" type="checkbox"/>	7076953	VIIRSSSEDR	2003-01-25 08:33:37.150	2003-01-25 08:35:01.659	NPP	VSSTO_npp_d20030125_t0833371_e0835016_b00015_c20100609013653920793_noaa_ops.h5	
<input type="button" value="2"/>	<input checked="" type="checkbox"/>	7077303	VIIRSSSEDR	2003-01-24 14:59:33.122	2003-01-24 15:05:13.082	NPP	VSSTO_npp_d20030124_t1459331_e1505130_b00000_c20100608142641492673_noaa_ops.h5	
<input type="button" value="3"/>	<input checked="" type="checkbox"/>	7077693	VIIRSSSEDR	2003-01-25 01:56:44.232	2003-01-25 01:58:08.741	NPP	VSSTO_npp_d20030125_t0156442_e0158087_b00011_c20100608185537367320_noaa_ops.h5	
<input type="button" value="4"/>	<input checked="" type="checkbox"/>	7078153	VIIRSSSEDR	2003-01-25 02:05:16.920	2003-01-25 02:06:41.430	NPP	VSSTO_npp_d20030125_t0205169_e0206414_b00011_c20100608190041012776_noaa_ops.h5	
<input type="button" value="5"/>	<input checked="" type="checkbox"/>	7078833	VIIRSSSEDR	2003-01-25 04:50:17.196	2003-01-25 04:55:57.156	NPP	VSSTO_npp_d20030125_t0450171_e0455571_b00012_c20100608221541974384_noaa_ops.h5	
<input type="button" value="6"/>	<input checked="" type="checkbox"/>	7079133	VIIRSSSEDR	2003-01-25 05:01:39.589	2003-01-25 05:07:19.549	NPP	VSSTO_npp_d20030125_t0501395_e0507195_b00012_c20100608222141943438_noaa_ops.h5	
<input type="button" value="7"/>	<input checked="" type="checkbox"/>	7079403	VIIRSSSEDR	2003-01-25 02:13:47.822	2003-01-25 02:15:12.332	NPP	VSSTO_npp_d20030125_t0213478_e0215123_b00011_c20100608190035614983_noaa_ops.h5	
<input type="button" value="8"/>	<input checked="" type="checkbox"/>	7079563	VIIRSSSEDR	2003-01-25 02:13:47.822	2003-01-25 02:15:12.332	NPP	VSSTO_npp_d20030125_t0213478_e0215123_b00011_c20100608190219659042_noaa_ops.h5	
<input type="button" value="9"/>	<input type="checkbox"/>	7079683	VIIRSSSEDR	2003-01-25 02:13:47.822	2003-01-25 02:15:12.332	NPP	VSSTO_npp_d20030125_t0213478_e0215123_b00011_c20100608190440739911_noaa_ops.h5	
<input type="button" value="10"/>	<input type="checkbox"/>	7079713	VIIRSSSEDR	2003-01-25 02:15:13.568	2003-01-25 02:16:38.077	NPP	VSSTO_npp_d20030125_t0215135_e0216380_b00011_c20100608190235678610_noaa_ops.h5	



# Step 8: Create User Account



# NOAA

## COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM (CLASS)

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Please select a product to search

### Around CLASS

- [» Home](#)
- [» Search for Data](#)
- [» Upload Search](#)
- [» Shopping Cart](#)
- [» Order Status](#)
- [» Help](#)

### User Account

- [» User Profile](#)
- [» User Preferences](#)

### Advanced Options

- [» Download Keys](#)

### Release Info

- [» Version 5.2](#)
- [September 05, 2009](#)

### Other Links

- [» CLASS Home](#)
- [» NODC](#)
- [» NCDC](#)
- [» NGDC](#)
- [» NESDIS](#)
- [» NOAA](#)
- [» DOC](#)

## User Profile for drew.saunde1

Member since 2010-06-17

Profile Updated. Thank you.

\*Last Name:

\*First Name:

\*Password:

\*Verify Password:

\*Email Address:

Address 1:

Address 2:

Address 3:

City:

State:

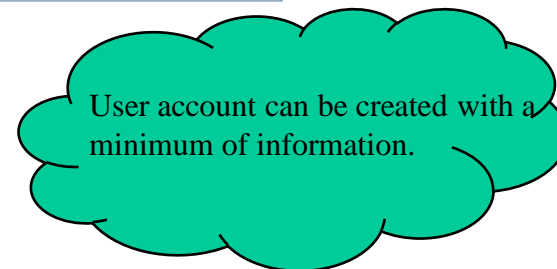
Zip Code:

Country:

Phone:

Fax:

\* denotes required fields







# Step 9: Set User Preferences

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

>> CLASS Home >> Logout >> Help CLASS Help All NOAA

Please select a product to search >> GO

## User Preferences

### Online Search Preferences

My default search preference is by  dataset name  search criteria

### Notification Preferences

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

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

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

### Delivery Preferences

Include digital signature when available  No  Yes

Prepend TBM/ARS headers to my data sets  No  Yes

Include delivery manifest  No  Yes

NPP companion files to deliver with data  
Auxiliary Data  
Geolocation  
ODAD

De-aggregate NPP Data Products  No  Yes

NPP companion files to deliver with software  
Test Data

NPP companion files to deliver with test data  
Software

JASON XGDR files to deliver  Dataset  Metadata

### AVHRR Data Extraction Preferences



# Step 10a: Submit Order

- Around CLASS**
- » Home
- » Search for Data
- » Upload Search
- » Shopping Cart
- » Order Status
- » Help
- User Account**
- » User Profile
- » User Preferences
- Advanced Options**
- » Download Keys
- Release Info**
- » Version 5.2  
September 05, 2009
- Other Links**
- » CLASS Home
- » NODC
- » NCDC
- » NGDC
- » NESDIS
- » NOAA
- » DOC

Please select a product to search » GO

## Shopping Cart

Total size of selected data sets: 334686552 Bytes    You will be notified at:

Number of data sets: 8    Order Comment:

Cost: Free    Delivery Method:  »

Advanced Options

## VIIRS

Order	Dataset Name	Include Digital Signature
<input checked="" type="checkbox"/>	Click on a dataset name to see the dataset details	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VSSTO_npp_d20030125_t0833371_e0835016_b00015_c20100609013653920793_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VSSTO_npp_d20030124_t1459331_e1505130_b00000_c20100608142641492673_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VSSTO_npp_d20030125_t0156442_e0158087_b00011_c20100608185537367320_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VSSTO_npp_d20030125_t0205169_e0206414_b00011_c20100608190041012776_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VSSTO_npp_d20030125_t0450171_e0455571_b00012_c20100608221541974384_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VSSTO_npp_d20030125_t0501395_e0507195_b00012_c20100608222141943438_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VSSTO_npp_d20030125_t0213478_e0215123_b00011_c20100608190035614983_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	VSSTO_npp_d20030125_t0213478_e0215123_b00011_c20100608190219659042_noaa_ops.h5	<input type="checkbox"/>



# Step 10b: Submit Order (Advanced Options)

- Around CLASS**
- >> Home
- >> Subscriptions
- >> 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 4.0.4  
June 8, 2006
- Other Links**
- >> CLASS Home
- >> NODC
- >> NCDC
- >> NGDC
- >> NESDIS
- >> NOAA
- >> DOC

Please select a product to search  >> GO

## Shopping Cart

Total size of selected data sets: 19,708,272 Bytes    You will be notified at:

Number of data sets: 1    Order Comment:

Cost: Free    Delivery Method:

### Advanced Options

Include delivery manifest:  No  Yes

Include checksum in delivery manifest:  No  Yes

Auxiliary Data

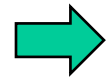
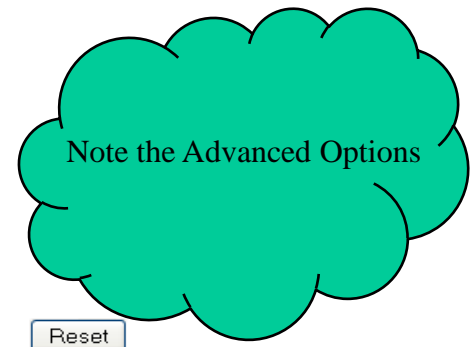
**Geolocation**

ODAD

NPP companion files to deliver with data:

Package Geolocation with NPP Data Products:  No  Yes

De-aggregate NPP Data Products:  No  Yes



## VIIRS

Order	Dataset Name	Include Digital Signature
<input checked="" type="checkbox"/>	Click on a dataset name to see the dataset details	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	VIIRSSSEDR VSSTO_npp_d20030125_t0833371 _e0835016_b00015_c2010060901 3653920793_noaa_ops.h5	<input checked="" type="checkbox"/>



# Step 11: Order Confirmation

- Around CLASS**
- » Home
- » Search for Data
- » Upload Search
- » Shopping Cart
- » Order Status
- » Help
- User Account**
- » User Profile
- » User Preferences
- Advanced Options**
- » Download Keys
- Release Info**
- » Version 5.2  
September 05, 2009
- Other Links**
- » CLASS Home
- » NODC
- » NCDC
- » NGDC
- » NESDIS
- » NOAA
- » DOC

Please select a product to search  »GO

## Shopping Cart

<b>Confirmation:</b>
Thank you for placing your order with the Comprehensive Large-Array data Stewardship System.
Your confirmation number is: 21058403.
When data becomes available, you will be notified at this address: drew.saunders@noaa.gov.
<b>Data Usage Survey</b>
<i>We are collecting information on data usage. This is a voluntary survey. What will be the primary use of the product/service?</i>
<input type="radio"/> Education <input type="radio"/> Scientific research <input type="radio"/> Business <input type="radio"/> Personal <input type="radio"/> Legal <input type="radio"/> Other <input style="width: 100px;" type="text"/>
<input type="button" value="Submit"/>



# Step 12: Order Status

- Around CLASS**
- » Home
- » Search for Data
- » Upload Search
- » Shopping Cart
- » Order Status
- » Help
- User Account**
- » User Profile
- » User Preferences
- Advanced Options**
- » Download Keys
- Release Info**
- » Version 5.2  
September 05, 2009
- Other Links**
- » CLASS Home
- » NODC
- » NCDC
- » NGDC
- » NESDIS
- » NOAA
- » DOC

Please select a product to search  » GO

## Order Status

Currently, there are 37777 line items in progress.

Number of hours you would like to use to search for your order information. For example, enter 36, to find all of your orders placed with the last 36 hours. The default is 168 hours (7 days).

Order number to search for. An order number contains numbers only.

Order Number	Order Type	Total Items	Total Size	Status	Order Comment
21058403	USER	8	1714197488	Ready	





# Step 13: Order Details



# NOAA

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



[» CLASS Home](#) [» Logout](#) [» Help](#)

[» CLASS Help](#) [» All NOAA](#)

[» SEARCH](#)

Please select a product to search

[» GO](#)

### Around CLASS

- [» Home](#)
- [» Search for Data](#)
- [» Upload Search](#)
- [» Shopping Cart](#)
- [» Order Status](#)
- [» Help](#)
- [» User Account](#)
- [» User Profile](#)
- [» User Preferences](#)
- [» Advanced Options](#)
- [» Download Keys](#)
- [» Release Info](#)
- [» Version 5.2  
September 05, 2009](#)
- [» Other Links](#)
- [» CLASS Home](#)
- [» NODC](#)
- [» NCDC](#)
- [» NGDC](#)
- [» NESDIS](#)
- [» NOAA](#)
- [» DOC](#)

## Details for Order Number 21058403

[Go Back to Order Summary List](#)

<b>Order Number:</b>	21058403	<b>Date and Time:</b>	2010-06-17 19:57:14
<b>Order Type:</b>	User interface	<b>Email Address:</b>	drew.saunders@noaa.gov
<b>Order Status:</b>	Order Ready	<b>Total Electronic Items:</b>	8
<b>Total Items:</b>	8	<b>Delivered Items:</b>	0
<b>Available Items:</b>	8	<b>Failed Items:</b>	0
<b>Estimated Size (Bytes):</b>	334686552	<b>Real Size (Bytes):</b>	1714197488
<b>Order Summary Notification:</b>	Yes	<b>Item Notification:</b>	No
<b>Include Delivery Manifest:</b>	No		
<b>Order Comment:</b>			

This order contains 16 datasets

Page 1



Line Item	Dataset Name	Time of Last Activity	Status	Download
25350093	VSSTO_npp_d20030125_t0833371_e0835016_b00015_c2010060901_3653920793_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>
	GMTCO_npp_d20030125_t0833371_e0835016_b00015_c2010060901_3653921327_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>
25350103	VSSTO_npp_d20030124_t1459331_e1505130_b00000_c2010060814_2641492673_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>
	GMTCO_npp_d20030124_t1459331_e1505130_b00000_c2010060814_2641562286_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>
25350113	VSSTO_npp_d20030125_t0156442_e0158087_b00011_c2010060818_5537367320_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>
	GMTCO_npp_d20030125_t0156442_e0158087_b00011_c2010060818_5536092155_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>
25350123	VSSTO_npp_d20030125_t0205169_e0206414_b00011_c2010060819_0041012776_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>
	GMTCO_npp_d20030125_t0205169_e0206414_b00011_c2010060819_0041012960_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>
25350133	VSSTO_npp_d20030125_t0450171_e0455571_b00012_c2010060822_1541974384_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>
	GMTCO_npp_d20030125_t0450171_e0455571_b00012_c2010060822_1241665113_noaa_ops.h5	2010-06-17 20:00:13	Pull Ready	<a href="#">www ftp</a>



# Step 13: Email Notification

NOAA COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM

A SERVICE OF:

NOAA NATIONAL DATA CENTERS

CLASS has processed your order number 21058403. The total size of this order is 1714197488 bytes.

Comments for this Order: The following item(s) are available for you to ftp copy. The procedure to copy is as follows:

ftp ftpopout.nsof.class.noaa.gov

- Logon to CLASS system

anonymous - FTP user id

user@internet - FTP password

binary - Changes transfer mode to binary

```
cd 21058403 get VSSTO_npp_d20030125_t0833371_e0835016_b00015_c20100609013653920793_noaa_ops.h5 get
GMTCO_npp_d20030125_t0833371_e0835016_b00015_c20100609013653921327_noaa_ops.h5 get
VSSTO_npp_d20030124_t1459331_e1505130_b00000_c20100608142641492673_noaa_ops.h5 get
GMTCO_npp_d20030124_t1459331_e1505130_b00000_c20100608142641562286_noaa_ops.h5 get
VSSTO_npp_d20030125_t0156442_e0158087_b00011_c20100608185537367320_noaa_ops.h5 get
GMTCO_npp_d20030125_t0156442_e0158087_b00011_c20100608185536092155_noaa_ops.h5 get
VSSTO_npp_d20030125_t0205169_e0206414_b00011_c20100608190041012776_noaa_ops.h5 get
GMTCO_npp_d20030125_t0205169_e0206414_b00011_c20100608190041012960_noaa_ops.h5 get
VSSTO_npp_d20030125_t0450171_e0455571_b00012_c20100608221541974384_noaa_ops.h5 get
GMTCO_npp_d20030125_t0450171_e0455571_b00012_c20100608221241665113_noaa_ops.h5 get
VSSTO_npp_d20030125_t0501395_e0507195_b00012_c20100608222141943438_noaa_ops.h5 get
GMTCO_npp_d20030125_t0501395_e0507195_b00012_c20100608221620684553_noaa_ops.h5 get
VSSTO_npp_d20030125_t0213478_e0215123_b00011_c20100608190035614983_noaa_ops.h5 get
GMTCO_npp_d20030125_t0213478_e0215123_b00011_c20100608190035434077_noaa_ops.h5 get
VSSTO_npp_d20030125_t0213478_e0215123_b00011_c20100608190219659042_noaa_ops.h5 get
GMTCO_npp_d20030125_t0213478_e0215123_b00011_c20100608190219660135_noaa_ops.h5 - Copies data to your system bye (or quit) - Ends
FTP session
```

Alternatively, you can also pick up your data via <http://wwwpop.nsof.class.noaa.gov/download/21058403>

NOTE: You must pick up your data within 48 hours of this notice.

Thank you.

<< DO NOT reply to this e-mail as it is automatically generated. >> << Please direct questions to the Help Desk: >>

NOAA/CLASS User Assistance National Climatic Data Center 151 Patton Avenue Asheville, NC 28801-5001 Internet: [class.help@noaa.gov](mailto:class.help@noaa.gov).



# CLASS Future Enhancements

- **System Evolution**
  - **Additional access to CLASS functionality**
    - > **New APIs, which are used by CLASS applications and the CLASS web interface, will be available to external clients.**
    - > **Working on additional interfaces to data in CLASS**
      - **CFSR data in CLASS accessible by NOMADS**
  - **Capability to refine previous searches**
    - > **Allows you to narrow down result set**
  - **Additional options for subscription orders**
  - **Automation of bulk order processing**





# Questions/Suggestions

---

**[Axel.Graumann@noaa.gov](mailto:Axel.Graumann@noaa.gov)**

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