

Accessing NPP Data



Jim Biard (STG, Inc)
NOAA/NESDIS/NCDC



Why do we need CLASS?

Too much information!

Growing by at least 30% / year

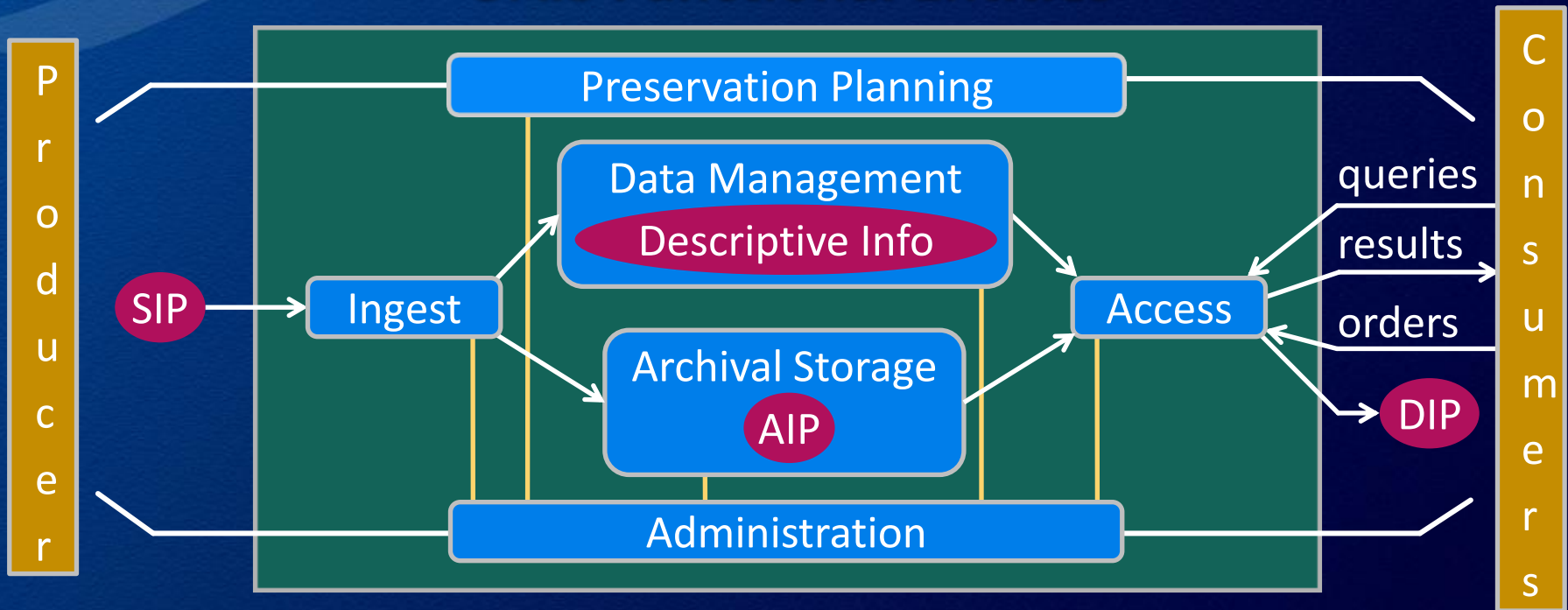
The library problem

New dimensions



The Role of Data Archives

OAIS Functional Entities



Running an archive is hard work!

The NOAA Archive & CLASS

Common framework

Holds ~50 families of data

Expanding to include:

NEXRAD

NCEP CFSR

GOES-R

JPSS



NPP In CLASS

What and how much?



NPP In CLASS (what)

Five instruments

ATMS: Advanced Technology
Microwave Sounder

CERES: Clouds and the Earth's
Radiant Energy System

CrIS: Cross-track Infrared Sounder

OMPS: Ozone Mapping Profiler Suite

VIIRS: Visible/Infrared Imager
Radiometer Suite

CrIMSS: CrI & M Sounder Suite

NPP In CLASS (what)

Five (6) instruments

ATMS, CERES, CrIS, OMPS, VIIRS, CrIMSS

Six types of operational products

Raw Data Records (RDR)

Sensor Data Records (SDR)

Environmental Data Records (EDR)

Temperature Data Records (TDR)

Intermediate Products (IP)

Application Related Products (ARP)

NPP In CLASS (what)

Five (6) instruments

ATMS, CERES, CrIS, OMPS, VIIRS, CrIMSS

Six types of operational products

RDRs, SDRs, EDRs, TDRs, IPs, ARPs

NCDC-contributed data products

Climate Raw Data Records (C-RDR)

NPP In CLASS (what)

Supporting products

Auxiliary data

mission schedules & notices,
revolution number file, ...

Ancillary data

processing coeff.s, lookup tables, ...

Release packages

software, documents, test data, ...

Calibration/Validation Data*

NPP In CLASS (what)

Five (6) instruments

ATMS, CERES, CrIS, OMPS, VIIRS, CrIMSS

Six types of operational products

RDRs, SDRs, EDRs, TDRs, IPs, ARPs

NCDC-contributed data products

Climate Raw Data Records (C-RDR)

Supporting products

Metadata

NPP In CLASS (how much)

**Currently ingesting ~5 TB /
month from all sources**

NPP will contribute ~5 TB / day

NPP Out of CLASS

Three ways

Query

Subscription

Bulk order

<http://www.class.noaa.gov>





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Hurricane Katrina
GOES 08/28/05

NEWS

Notice - Public Release of the Jason-2 Geophysical Data Records:

The Jason-2 Geophysical Data Records (GDRs) are now publicly available from CLASS. These GDRs have been extensively validated by the Ocean Surface Topography Science Team and demonstrate excellent data quality and consistency with the Jason-1 GDRs. The data are available since Jason-2's launch on 20 June 2008. Further details about the data and its known limitations are [available here](#)

News - Online registration now available for the 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. The conference will consist of speaker presentations, poster sessions, breakout sessions, and opportunity for user feedback. The conference objectives are to:

- Continue to improve communication between NOAA and the GOES user communities
- Inform users on the status of the current and future GOES constellation, instruments, and operations;
- Seek ways and define methodologies to ensure user readiness for the GOES-N and -R series;
- Promote understanding of the various applications of data and products from the GOES-R series. [Click here](#) for more details and to register online.

SEARCH FOR DATA

- + Polar-orbiting Satellites
- + Geostationary Satellites
- + Defense Meteorological Satellite Program (DMSP)
- + Sea Surface Temp. (SST)
- + RADARSAT
- + Altimetry / Sea Surface Height Data (JASON-2)
- + Global Navigation Satellite Systems (GNSS)
- + Other - Miscellaneous products in CLASS

SEARCH COLLECTION METADATA

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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.



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*Password: Verify Password:

*Email Address:

Address 1:

Address 2:

Address 3:

City: State:

Zip Code: Country:

Phone: Fax:

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User Profile for inky.squid

Member since 2011-01-14

Profile Updated. Thank you.

*Last Name:	<input type="text" value="Squid"/>	*First Name:	<input type="text" value="Inky"/>
*Password:	<input type="text"/>	*Verify Password:	<input type="text"/>
*Email Address:	<input type="text" value="inky.squid@noaa.gov"/>		
Address 1:	<input type="text"/>		
Address 2:	<input type="text"/>		
Address 3:	<input type="text"/>		
City:	<input type="text"/>	State:	<input type="text"/>
Zip Code:	<input type="text"/>	Country:	<input type="text" value="UNITED STATES"/>
Phone:	<input type="text"/>	Fax:	<input type="text"/>

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Hurricane GOES 08/28

NEWS

Notice - Pub

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extensively vali...
consistency wi...
details about the...

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Advanced Scatterometer Level 1B (ASCAT)

Advanced Technology Microwave Sounder (ATMS)

Advanced Very High Resolution Radiometer (AVHRR)

Aerosol Optical Thickness (100 KM) (AER0100)

Climate Forecast System - Reanalysis (CFS-R)

Clouds and Earth Radiant Energy System (CERES)

CoastWatch full resolution swath files in hdf format (CW_SWATH)

CoastWatch Regions in HDF format (CW_REGION)

CoastWatch, Alaska Regional Node (CWALA)

CoastWatch, Caribbean Regional Node (CWCAR)

CoastWatch, Great Lakes Node (CWGRL)

CoastWatch, Gulf of Mexico (CWGOM)

CoastWatch, Hawaii Regional Node (CWHAW)

CoastWatch, Northeast Regional Node (CWNOE)

CoastWatch, Southeast Regional Node (CWSOE)

CoastWatch, West Coast Regional Node (CWWEC)

Continuously Operating Reference Stations (CORS)

Coral Bleaching Monitoring Products (CORBL)

Coral Bleaching Monitoring Products (CORBL)

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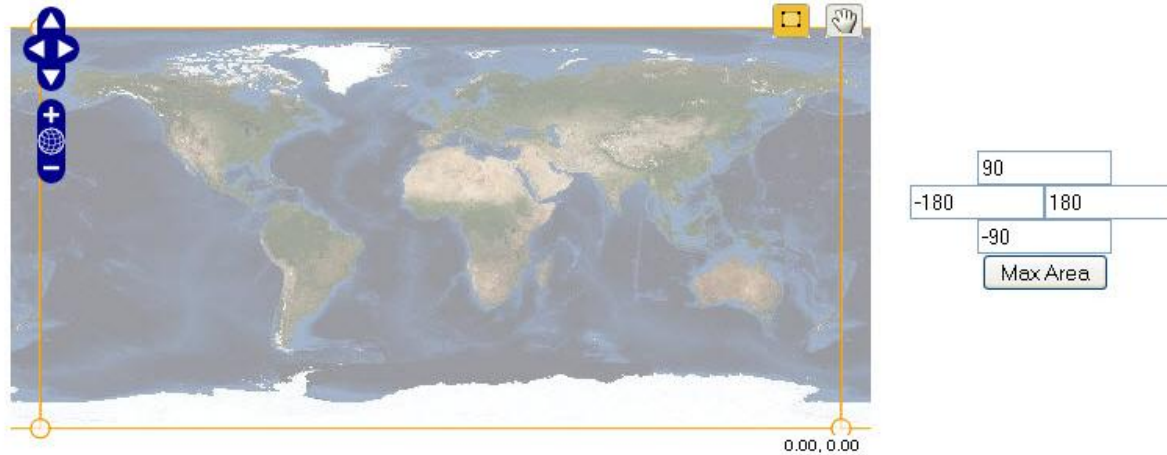
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Data Description

Advanced Technology Microwave Sounder (ATMS) - In conjunction with Cross-track Infrared Sounder (CrIS) the Advanced Technology Microwave Sounder (ATMS) collects atmospheric data to permit the calculation of temperature and moisture profiles at high (~ daily) temporal resolution.

Spatial



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

Temporal

Start Date (format: YYYY-MM-DD)	<input type="text" value="2011-01-18"/>		Start Time (UTC) (format: HH:MM:SS)	<input type="text" value="00:00:00"/>
End Date (format: YYYY-MM-DD)	<input type="text" value="2011-01-19"/>		End Time (UTC) (format: HH:MM:SS)	<input type="text" value="23:59:59"/>

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

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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) 2011-01-18

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

End Date
(format: YYYY-MM-DD) 2011-01-19

End Time (UTC)
(format: HH:MM:SS) 23:59:59

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

Node

- Ascending
- Descending
- Either

Satellite

NPP

Reset Simple Search Search Save Criteria Load Criteria

Dataset Name/Granule ID/Beginning Orbit Number View

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90
-180 180
-90
Max Area

0.00, 0.00

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

Dataset name format is:

ProductID_npp_dyymmdd where ProductID=any 5-character data product ID, yyyy=4-digit year, mm=2-digit month, dd=2-digit day or entire dataset name.

Example: RATMS_npp_d20081010

Reset

Simple Search

Search

Save Criteria

Load Criteria

Search Criteria View

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Advanced Technology Microwave Sounder (ATMS)

» GO

Search Results - ATMS

(click here for a printable listing)

Recently Searched Data Sets: ATMS » GO

Currently you have 49 hits out of 0 entries.
There are 5 (ATMS) items in your shopping cart. The shopping cart limit is 100.

Shopping Cart:

Goto Cart

Update

SelectAll

DeselectAll

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View Details	Shopping Cart	Inventory ID	Satellite	Datatype	Start Date/Time	End Date/Time	Dataset Name	Beginning Orbit Number
1	<input type="checkbox"/>	123192341	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 05:40:14.906	2009-01-25 05:48:49.234	SATMR_npp_d20090125_t0540149_e0548492_b00024_c20091028191854_763331_noaa_ops.h5	
2	<input type="checkbox"/>	123192343	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 05:48:51.434	2009-01-25 05:57:21.234	SATMR_npp_d20090125_t0548514_e0557212_b00024_c20091028191955_134396_noaa_ops.h5	24
3	<input type="checkbox"/>	123192346	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 05:57:23.434	2009-01-25 06:05:53.234	SATMR_npp_d20090125_t0557234_e0605532_b00024_c20091028192255_200389_noaa_ops.h5	24
4	<input type="checkbox"/>	123192349	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 06:05:55.434	2009-01-25 06:14:25.234	SATMR_npp_d20090125_t0605554_e0614252_b00024_c20091028192655_440463_noaa_ops.h5	24
5	<input type="checkbox"/>	123192352	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 06:14:27.434	2009-01-25 06:22:57.234	SATMR_npp_d20090125_t0614274_e0622572_b00024_c20091028193055_313065_noaa_ops.h5	24
6	<input type="checkbox"/>	123192355	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 06:31:31.434	2009-01-25 06:40:01.234	SATMR_npp_d20090125_t0631314_e0640012_b00024_c20091028193855_499462_noaa_ops.h5	24
7	<input type="checkbox"/>	123192359	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 06:40:03.434	2009-01-25 06:48:33.234	SATMR_npp_d20090125_t0640034_e0648332_b00024_c20091028194155_544469_noaa_ops.h5	24
				Remapped to CrIS			SATMR_npp_d20090125_	



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There are 10 (ATMS) items in your shopping cart. The shopping cart limit is 100.

Shopping Cart:

Page 1

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View Details	Shopping Cart	Inventory ID	Satellite	Datatype	Start Date/Time	End Date/Time	Dataset Name	Beginning Orbit Number
<input type="button" value="1"/>	<input checked="" type="checkbox"/>	123192341	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 05:40:14.906	2009-01-25 05:48:49.234	SATMR_npp_d20090125_t0540149_e0548492_b00024_c20091028191854763331_noaa_ops.h5	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	123192343	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 05:48:51.434	2009-01-25 05:57:21.234	SATMR_npp_d20090125_t0548514_e0557212_b00024_c20091028191955134396_noaa_ops.h5	24
<input type="button" value="3"/>	<input checked="" type="checkbox"/>	123192346	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 05:57:23.434	2009-01-25 06:05:53.234	SATMR_npp_d20090125_t0557234_e0605532_b00024_c20091028192255200389_noaa_ops.h5	24
<input type="button" value="4"/>	<input checked="" type="checkbox"/>	123192349	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 06:05:55.434	2009-01-25 06:14:25.234	SATMR_npp_d20090125_t0605554_e0614252_b00024_c20091028192655440463_noaa_ops.h5	24
<input type="button" value="5"/>	<input checked="" type="checkbox"/>	123192352	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 06:14:27.434	2009-01-25 06:22:57.234	SATMR_npp_d20090125_t0614274_e0622572_b00024_c20091028193055313065_noaa_ops.h5	24
<input type="button" value="6"/>	<input type="checkbox"/>	123192355	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 06:31:31.434	2009-01-25 06:40:01.234	SATMR_npp_d20090125_t0631314_e0640012_b00024_c20091028193855499462_noaa_ops.h5	24
<input type="button" value="7"/>	<input type="checkbox"/>	123192359	NPP	Remapped to CrIS Sensor Data Records (ATMSREMSDR)	2009-01-25 06:40:03.434	2009-01-25 06:48:33.234	SATMR_npp_d20090125_t0640034_e0648332_b00024_c20091028194155544469_noaa_ops.h5	24
				Remapped to CrIS			SATMR_npp_d20090125_	



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Total size of selected data sets: 1,230,768 Bytes
 Number of data sets: 5
 Cost: Free

You will be notified at:
 Order Comment:
 Delivery Method:

+ Advanced Options

ATMS

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"/>	ATMSREMSDR SATMR_npp_d20090125_ t0540149_e0548492_b0 0024_c20091028191854 763331_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	ATMSREMSDR SATMR_npp_d20090125_ t0548514_e0557212_b0 0024_c20091028191955 134396_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	ATMSREMSDR SATMR_npp_d20090125_ t0557234_e0605532_b0 0024_c20091028192255 200389_noaa_ops.h5	<input type="checkbox"/>
<input checked="" type="checkbox"/>	ATMSREMSDR SATMR_npp_d20090125_ t0605554_e0614252_b0 0024_c20091028192655	<input type="checkbox"/>



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Shopping Cart

Total size of selected data sets: 1,230,768 Bytes You will be notified at:

Number of data sets: 5 Order Comment:

Cost: Free Delivery Method:

Advanced Options

Include delivery manifest: No Yes

Include checksum in delivery manifest: No Yes

NPP companion files to deliver with data:

Package Geolocation with NPP Data Products: No Yes

De-aggregate NPP Data Products: No Yes

ATMS

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"/>	ATMSREMSDR SATMR_npp_d20090125_ t0540149_e0548492_b0 0024_c20091028191854 763331_noaa_ops.h5	<input type="checkbox"/>
	ATMSREMSDR	



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Shopping Cart

Confirmation:

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

Your confirmation number is: 100000208.

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

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

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Order Status

Currently, there are **29677** line items in progress.

Order

Hours:

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).

Display

ID:

Display ID is the Order Number, Subscription ID, or Large Order Number.

Order Type:

- All
 Subscription
 Large
 Single
 NES

Submit

Reset Form

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

Display ID (Sort)	Order Type (Sort)	Total Items (Sort)	Total Size (Sort)	Status (Sort)	Order Comment (Sort)	Time of Last Activity (Sort)
2530	SUBS	1	0	In Progress	GVAR_IMG Subscription	
100000206	USER	5	2460896	Ready		2011-01-19 17:40:43
100000207	USER	5	2460896	Ready	ATMS Order	2011-01-19 17:44:15
100000093	USER	4	29876955	In Progress		2011-01-14 14:35:48
100000208	USER	5	0	Not Started	ATMS SDR Order	2011-01-19 17:50:15

Subscriptions

Via FTP – push or pull

Email class.help@noaa.gov

Filter creation is like query

Bulk Orders

Preferred method for large orders

Digital media or FTP

Email class.help@noaa.gov

Future Enhancements

Web services APIs

CLASS data to be served through existing NOAA portals

Search capabilities expanding

Subscription options expanding

Automated Bulk Orders

Contacts

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