



# NOAA's National Centers for Environmental Information

## CLASS Access

2015 NOAA Satellite Conference, April 27 – May 1, 2015



NOAA Satellite and Information Service | National Centers for Environmental Information

# Key Discussion Points

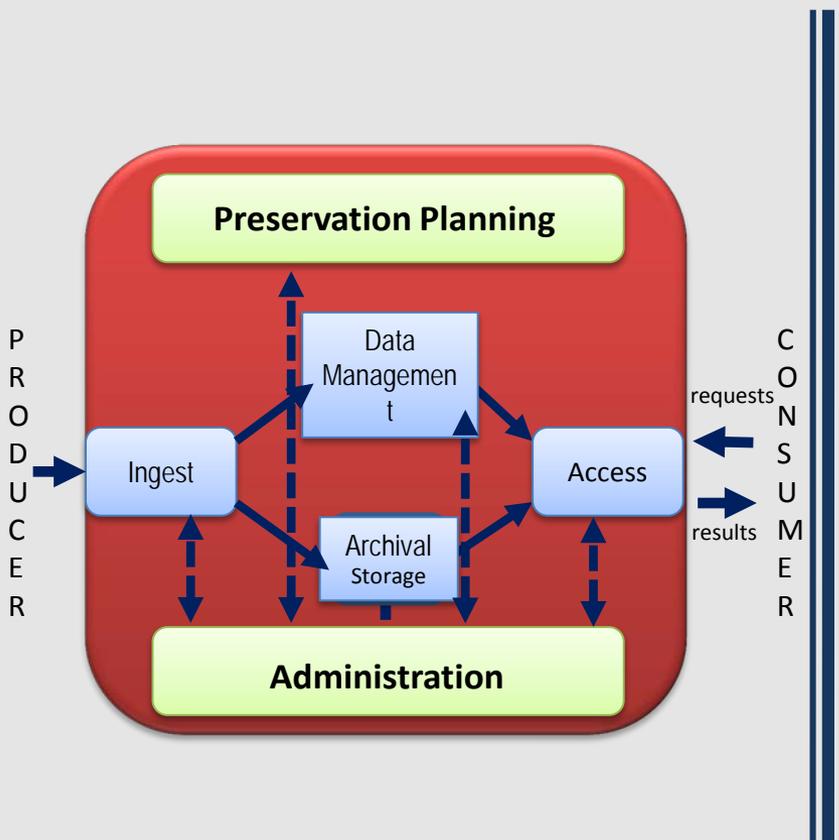
- CLASS's role verses NCEI's role
- Current plans for future access
- Datasets in CLASS
- Access statistics and patterns
- Users accessing data
- Levels of data access in CLASS

# CLASS Role vs. NCEI Role

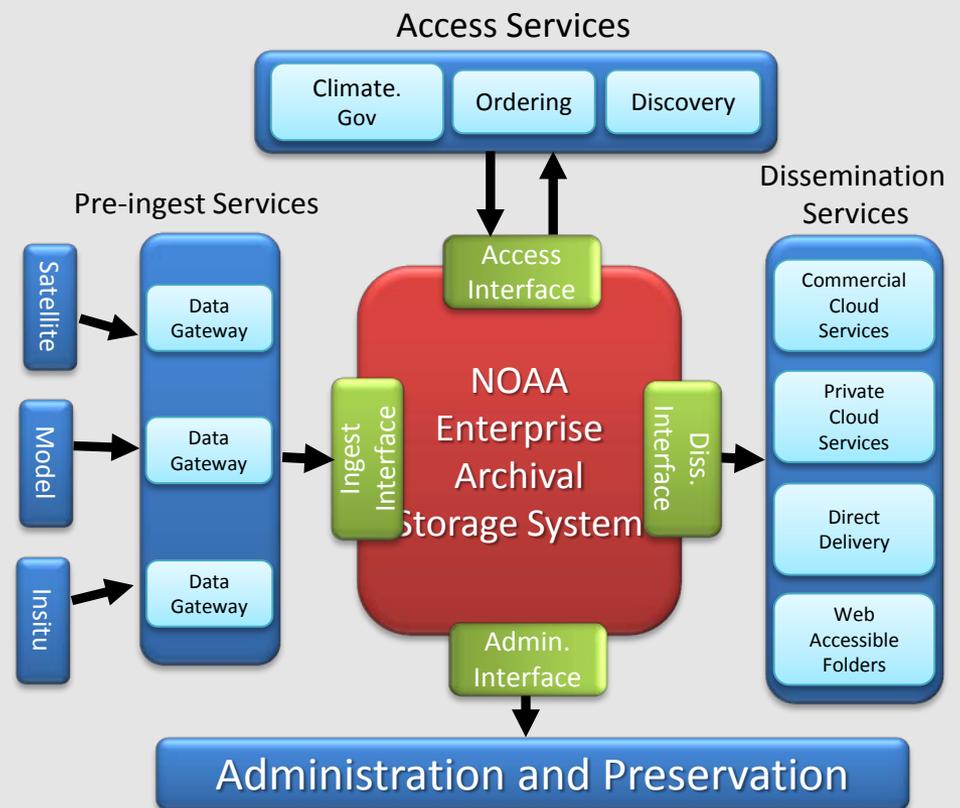
- Comprehensive Large Array-data Stewardship System (CLASS) is managed by the NESDIS Office of Satellite Ground Services (OSGS). CLASS's current responsibilities include ingest, management, archival and access to its information holdings.
- NOAA's National Centers for Environmental Information (NCEI), in addition to providing similar services as CLASS, are responsible for data stewardship and user support of all information holdings in CLASS and in NCEI.

# CLASS's Evolution to an Enterprise Archival Storage System

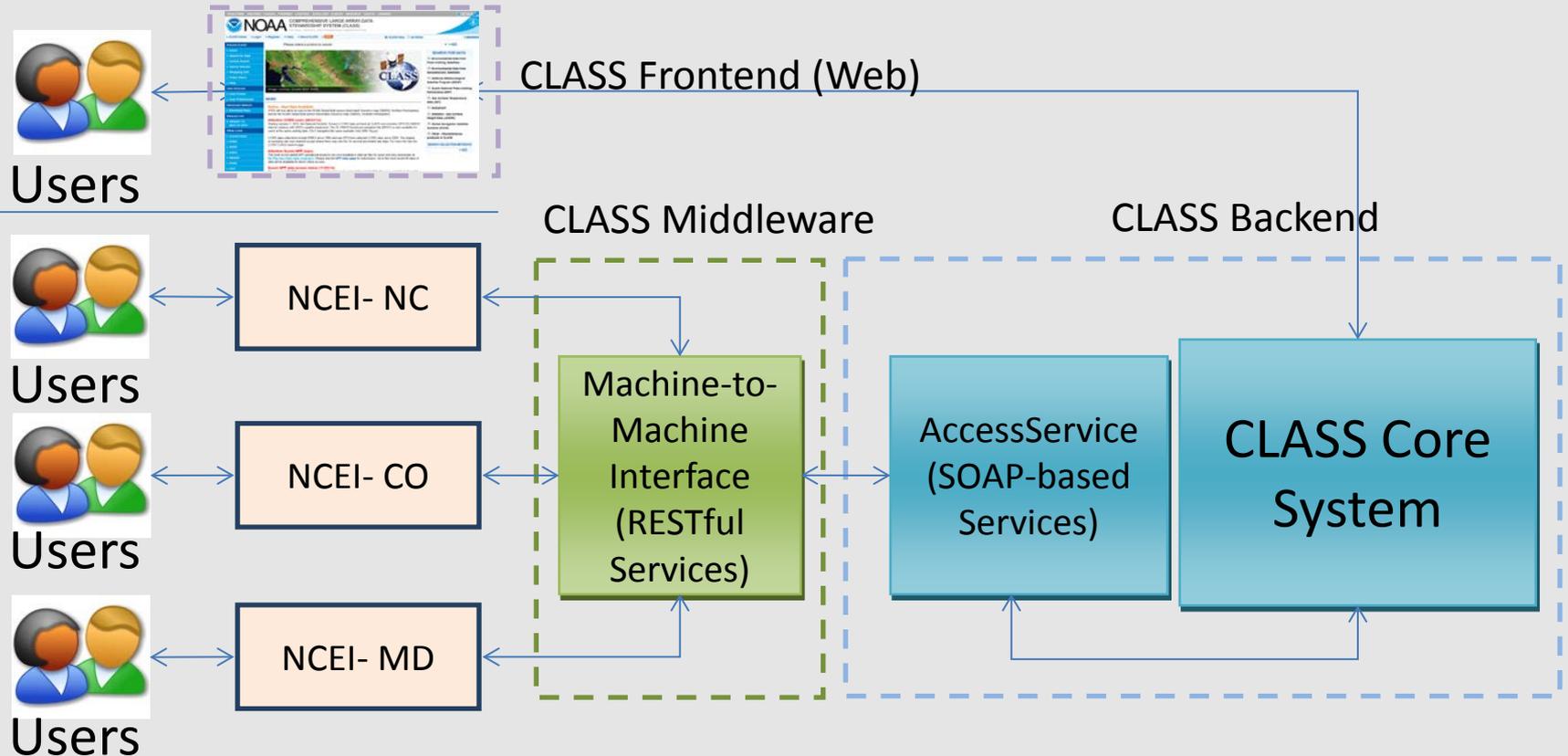
Present CLASS



Future CLASS (in red)



# CLASS M2M Interface



The M2M API implements a set of RESTful web services for searching, ordering, and order status querying of CLASS's information holdings.

# What Data can be Accessed?

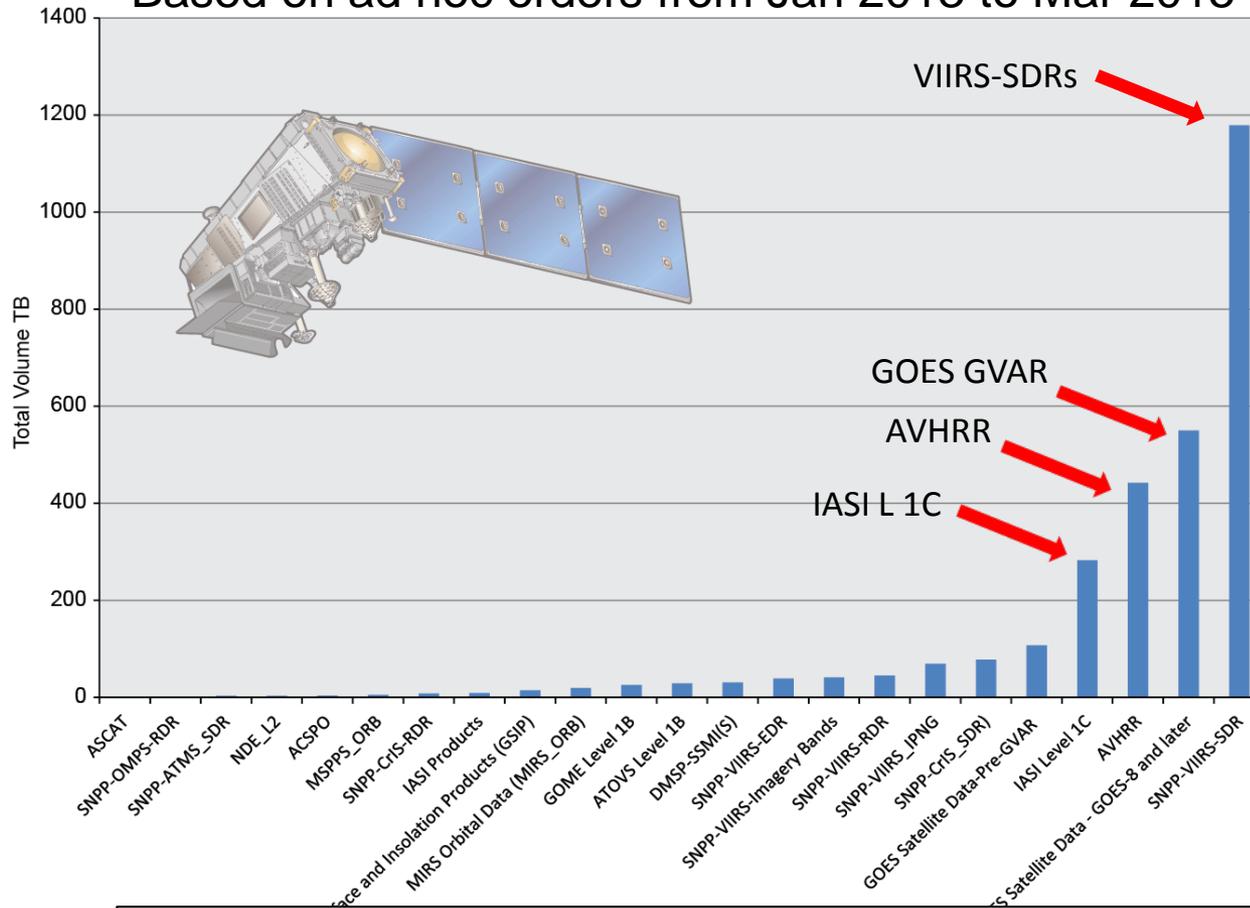
- There are 80 data families in CLASS.
- Each family of data may contain many data types.
- Altogether there are 300 datasets in CLASS accessible through its web interface.
- The most popular are the original radiance datasets from GOES, POES, and S-NPP.

# Most Popular Datasets

Satellite/instruments	Period of record	Volume archived
S-NPP VIIRS xDRs	2012 to current	4400 TB
GOES GVAR and pre-GVAR Imager datasets	1979 to current	335 TB
POES/MetOp AVHRR and ATOVS Level 1b datasets	1978 to current	116 TB
MetOp IASI datasets	2007 to current	109 TB

# Most Popular Datasets by Volume\*

\*Based on ad hoc orders from Jan 2013 to Mar 2015

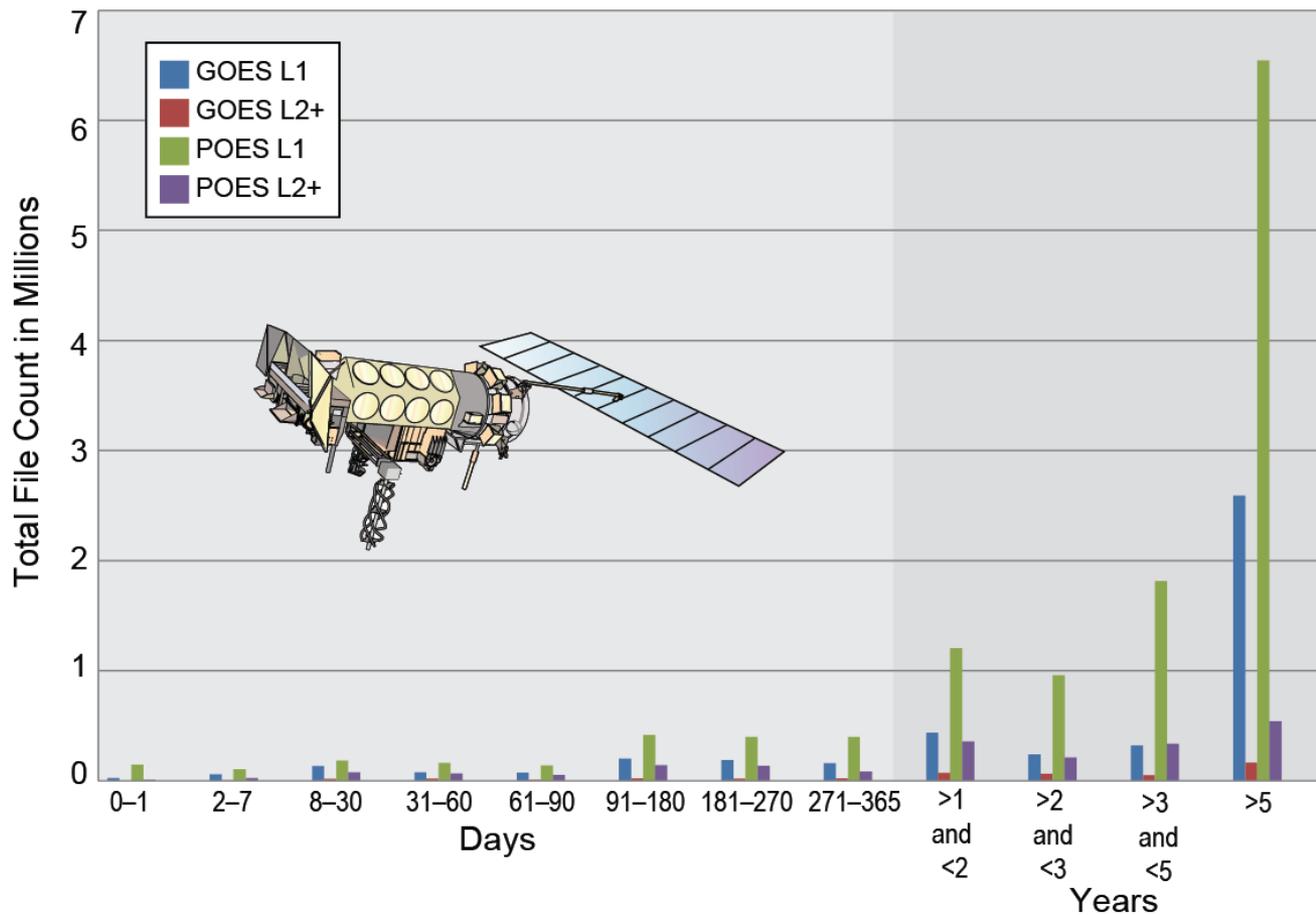


23 CLASS data families with over 2 TB delivered

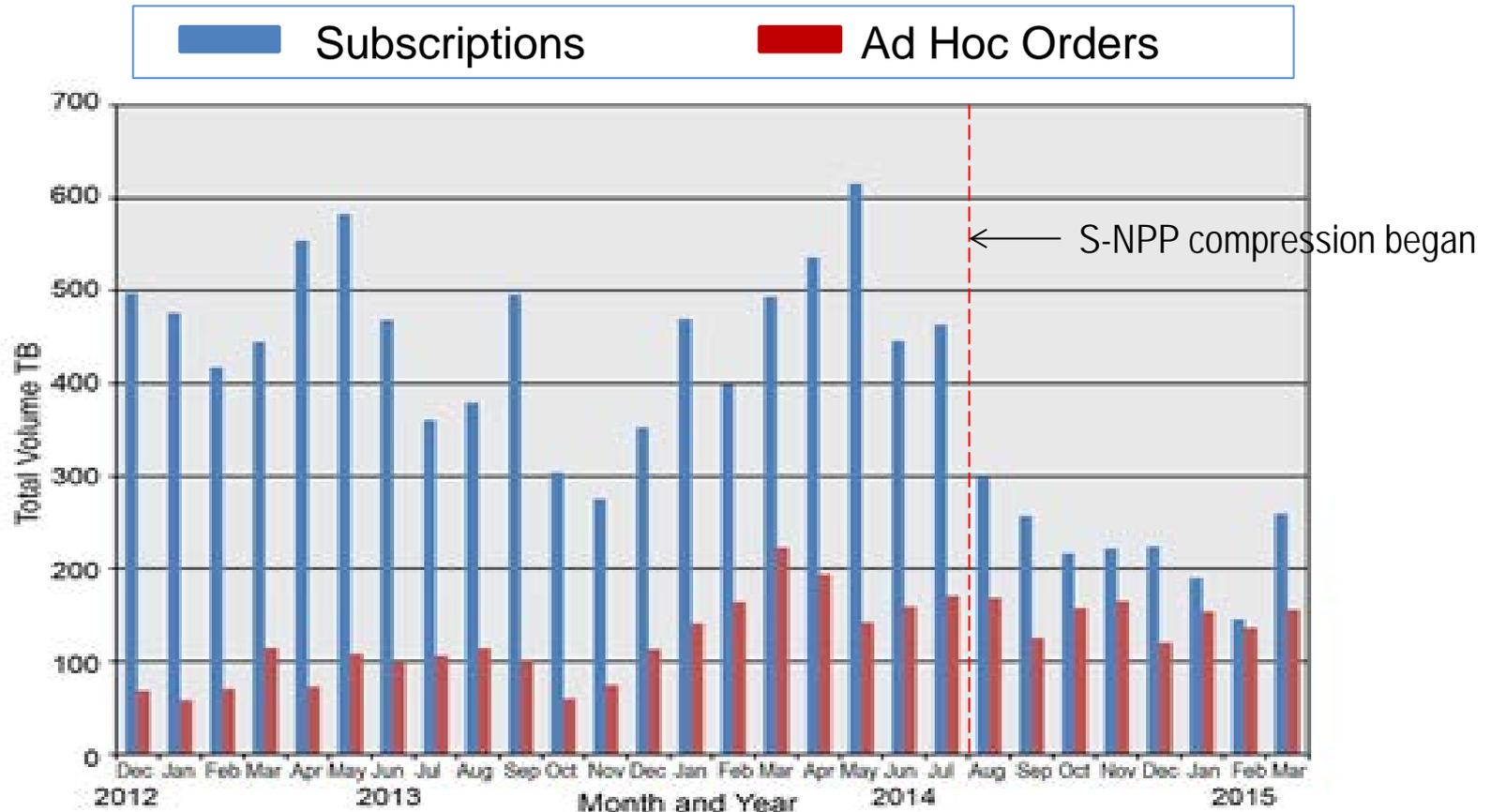


# Access Statistics by File Age

Based on orders placed from Jan 2013 to Dec 2014

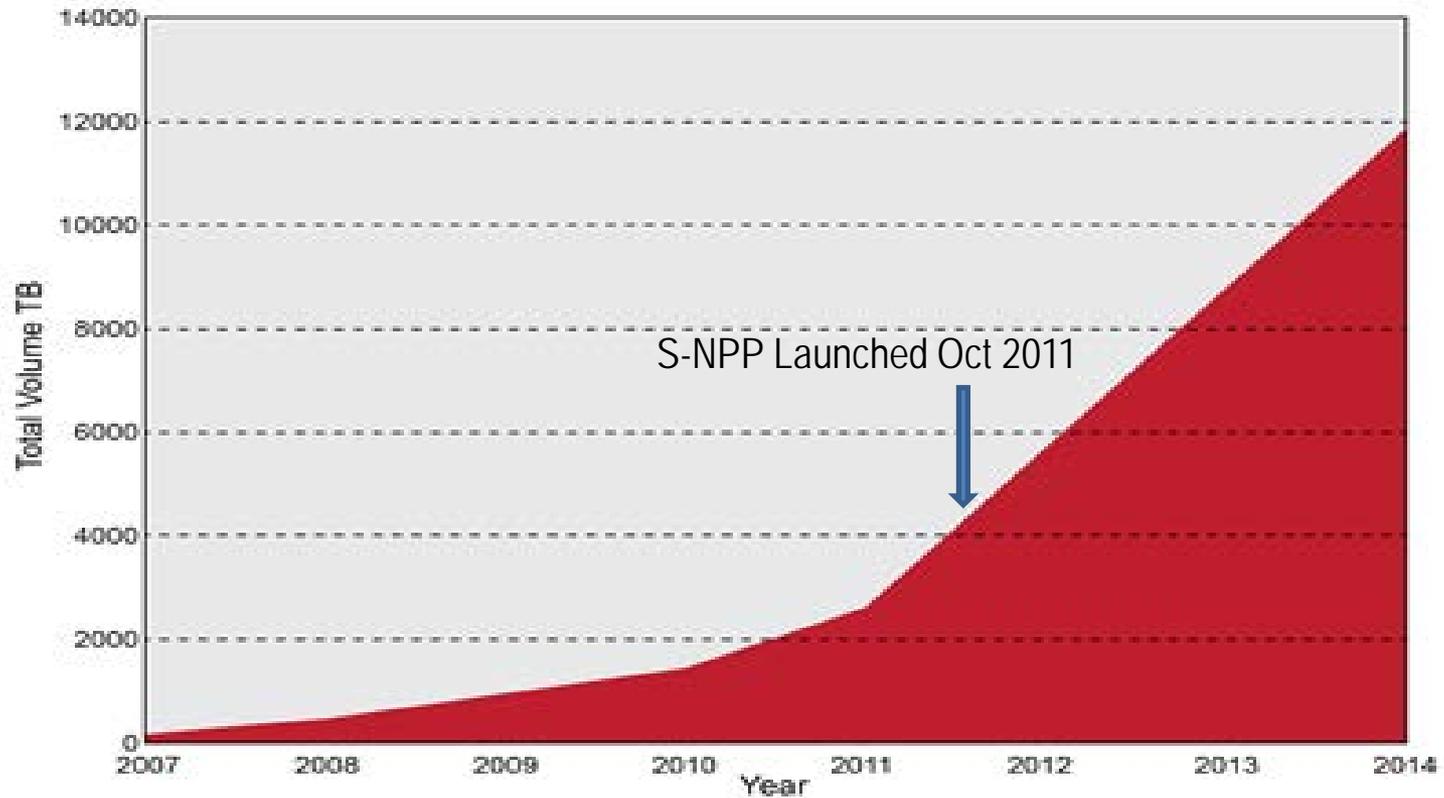


# Monthly Totals (TB) Accessed

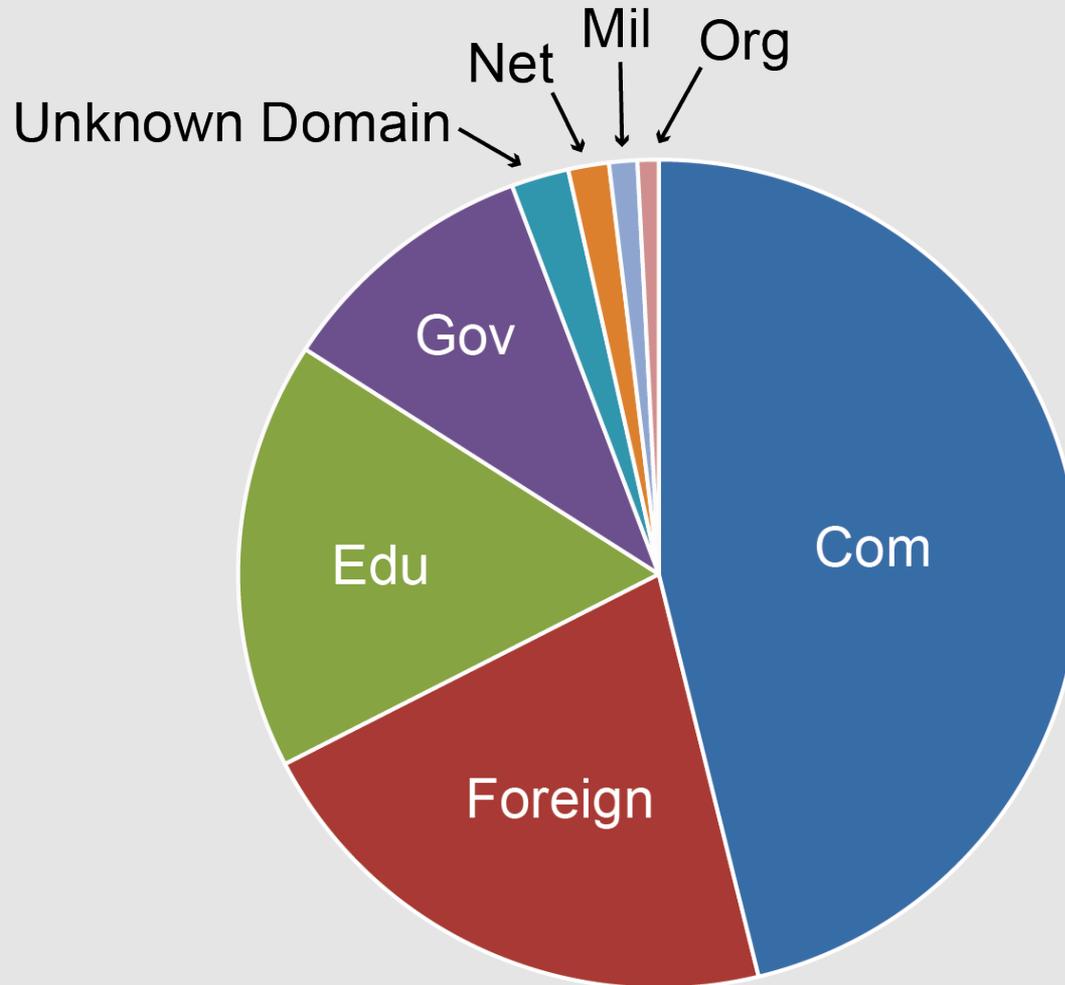


# Total Archive Growth in CLASS

Total archive volume in CLASS is around 11.5 PB



# Who are the users of CLASS?



# How do I access data from CLASS?

**Step 1:** Register for a user id account at [www.class.noaa.gov](http://www.class.noaa.gov) (minimal information: your name, e-mail address, a password)

**Step 2:** Select from the drop down product menu and highlight a dataset

**Step 3:** On the Search page make your selections (geographic region, start/end dates and times, and data types).

**Step 4:** Determine if you need greater access or a subscription

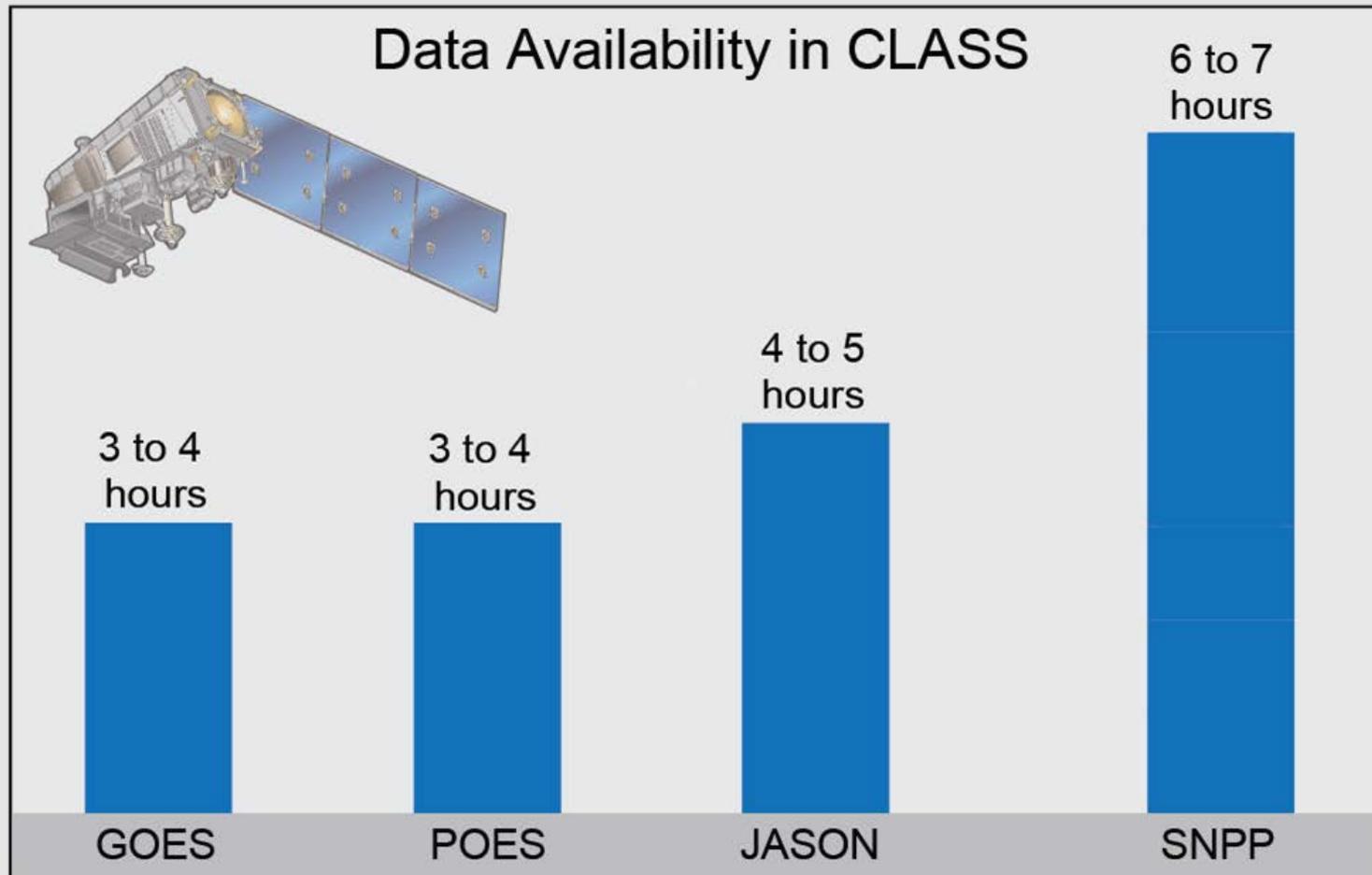
**Note:** Always provide your user ID when contacting the CLASS helpdesk



# Levels of Access Services (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 button to skip inventory )	24 to 48 hours	1000 to 3000	No
Block orders (use Quick Search button)	> 48 hours	3000 to 6000	Yes
Subscription (standing orders)	< 6-7 hours	No limit	Yes

# Subscription Delivery Times



# Levels of Access Services (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 technical questions regarding access in CLASS:**

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

**Tutorial on using CLASS:**

**SNPP Access tutorial** - on CLASS Home Page in the News section

**Please see me for a hands on overview of CLASS website!**

