

Working Group/Observational Data (Satellite Data)

Spring 2016 COPC

Co-Chairs:

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Satellite Data Requests

Phases: Access Approval, Change Approval, Implementation, Closure

Data	Requestor	Provider	Status/Phase
GCOM-W Lvl 1b and Lvl 2 Prods	557th/FNMOC	NESDIS	Implementation
Wildfire Auto Biomass Algorithm (WF-ABBA)	557th/FNMOC	NESDIS	Implementation
SMAP	557th	NESDIS	Access Approval
S-NPP VIIRS-based Green Vegetation Fraction	557th	NESDIS	Closure
Radarsat	FNMOC	NESDIS	Implementation
Jason-2	FNMOC	NESDIS	Withdrawn
Korea's KOMPSAT-5 Radio Occultation Data	557 th /FNMOC	NESDIS	Withdrawn

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NASA's CALIPSO Cloud-Aerosol Lidar	557th	NESDIS	Withdrawn
Jason-3	NAVO	NESDIS	Implementation (waiting for release of these data to users)
SSMIS Upper Air Soundings (UAS) Unified Pre-Processor (UPP)	NESDIS	FNMOCC	Implementation
SMDB Buoy and Satellite SST	FNMOCC	NAVO	Implementation
S-NPP Ice Concentration	557th	NESDIS	Access Approval



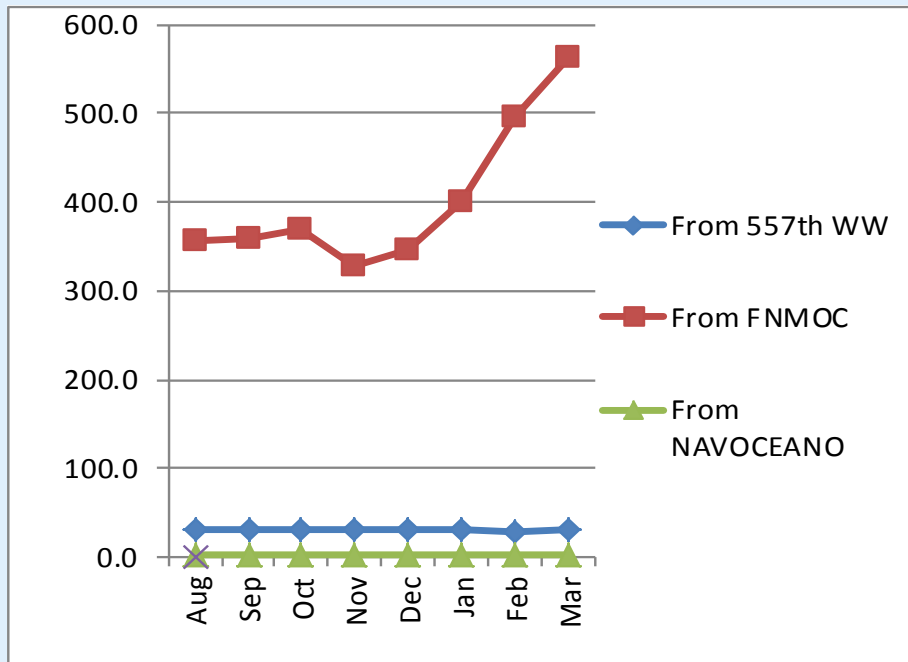
DAPE Gateway Statistics

August 2015 to March 2016

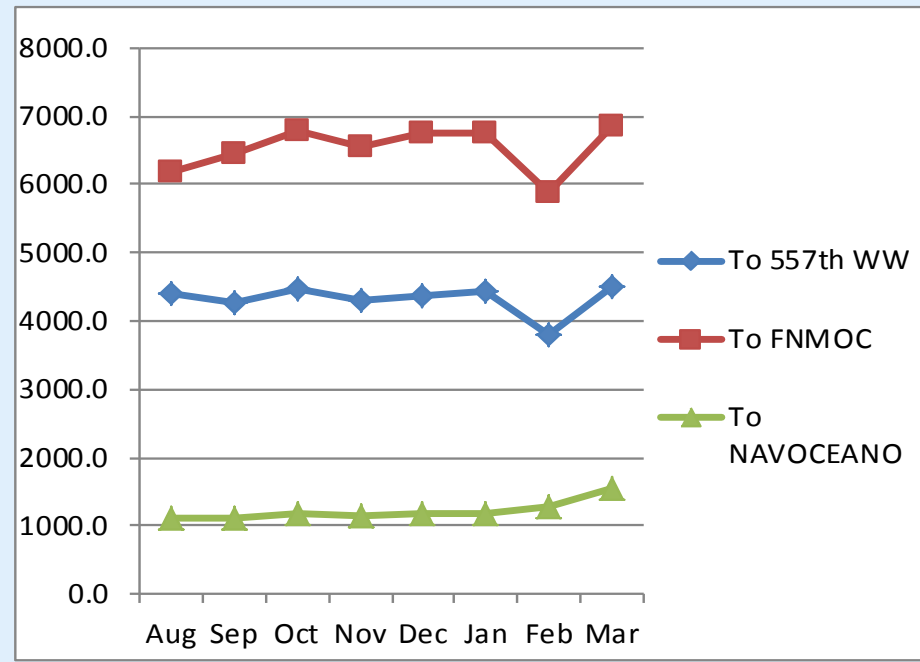


	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
From 557th WW	31.7	30.7	31.7	30.5	30.9	31.7	29.3	31.2
From FNMOC	357.4	359.1	370.3	329.1	345.2	399.9	495.0	562.1
From NAVOCEANO	2.0	2.1	2.1	1.7	1.9	2.0	1.8	2.0
	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
To 557th WW	4408.9	4283.2	4484.7	4305.5	4363.7	4447.9	3802.8	4495.9
To FNMOC	6197.4	6445.7	6796.6	6537.5	6738.7	6755.9	5872.2	6844.4
To NAVOCEANO	1125.7	1119.1	1193.7	1150.0	1175.8	1194.6	1273.2	1544.2

Data sent to NESDIS



Data sent from NESDIS



Volume in GB/month

COPC Action Item

Secure Protocols and the DAPE Gateway

- **COPC Action Item 2014-2.1:** Determine if data can be exchanged via the DAPE Gateway using secure protocols.
 - Two small files were successfully transferred to NAVO via FTPS
 - NAVO ready to implement
 - **Recommend closing** this action.
- **Recommend opening** a new action to implement standard secure protocol exchanges.
 - Work to develop a standard method between NOAA (DAPE, NCEP and NCO/TG) and DOD (AF, FNMOC, and NAVO).
 - Determine FTPS or SFTP.
 - Update the TR-1 once implemented for DAPE exchange.

Recent Satellite launches

- Sentinel-3A (27 day ERM, 98.6 Degree, 815 km)
 - Launch 16 February 2016
 - On Orbit 22 Feb 2016
 - Data Availability ~July 2016
 - Operational Access ~Jan/Feb 2017
 - Data Provider NOAA/STAR
 - Data will come non-operational via NOAA STAR.
 - NIC has requested data via the PDA.
 - No processing or stripping off data.
 - OSPO is still evaluating this request.

Recent Satellite launches

- Jason-2 Interleave (10 day ERM, 66 Degree, 1336 km)
 - Orbit readjustment ~Sept 2016
 - Data Availability ~Oct/Nov 2016
 - Operational Access ~Jan/Feb 2017
 - Data Provider NESDIS/OSPO
- Jason-3 (10 day ERM, 66 Degree, 1336 km)
 - Launch 17 January 2016
 - On Orbit 04 Feb 2016 (Cycle 0 commences)
 - Data Availability ~ June 2016
 - Operational Access July 2016
 - Data Provider NESDIS/OSPO
 - OSPO already has a CCR to distribute via the DAPE Gateway.

Ongoing Activities

MET-7 Follow-on

EUMETSAT proposed a scenario that was endorsed at this year's CGMS

- This plan envisions repositioning, on a best effort basis, its Meteosat-8 satellite to 41.5 degrees East and leveraging the operational geostationary satellite of other foreign partners, notably India.
- Met 7 Decommission Date: April 2017
- A formal decision to move Met8 will go before their Council meeting on June 28/29 - this will be the formal go/no-go decision to proceed
- Expected Met8 IODC operational period is from Jan 2017 (TBC) to late 2019 - ops period based on fuel load
- There will be no direct broadcast regional service - the data needs to be routed from EUMETSAT to NOAA
- If Met8 is moved, will need to determine how to acquire the data and make it available to the OPCs

Ongoing Activities

Acquisition of INSAT-3D data

India National Satellite - 3D is a multi-purpose geostationary satellite with the potential to extend high temporal-resolution geostationary coverage to the Indian Ocean/Arabian Sea region

- NAVO analysis of data concluded data was not useful as provided by India Meteorological Department (IMD)
 - Only one set of calibration parameters per data file
 - Insufficient to remove inherent noise in the data
- NAVO relayed findings to NOAA
- NOAA/STAR acknowledges that IMD needs to be engaged for these types of technical issues
- FNMOC concerned that these data are not timely enough
- Investigating to determine if getting these data from Eumetsat would make them more timely

Action Items

Environmental Satellite Data Annex update

Background: Annex is outdated (5-yr cost projections), GC comments from DAPE MOA

- Draft revised ESDA developed and reviewed by the METSAT members of the WG/OD; submitted to WG/CSAB for the next level of coordination
- Several parts of the document (primarily updated funding projections) are yet to be finalized.

Other Activities

Mission Partner (Federated) Gateway

- WG/OD will assist by gathering representative proxy data to test the operational effectiveness of the gateway

Product Distribution and Access (PDA)

- WG/OD is represented on the PDA working group to address interagency data transfer issues.

Himawari-8 Data

- NESDIS/OSGS is determining if data can be distributed via the PDA and, if so, when
- At this point, it is unclear what the funding source will be when Sandy supplemental funds go away
- Additional details in CSAB brief to follow...

GOES-R

- WG/OD members on the PDA working group will address issues such as how Goes-R products will be distributed, priorities, and data protocols
- Collaborations are in the early stages

DMSP

- **F-17** recalled as primary for the morning mission
 - Now has SSMIS channel 16 noise issues preventing creation of Wind Speed, Total Precipitable Water or Water Vapor, and Ice concentrations Environmental Data Records.
- **F-19** continues autonomous transmission of real-time imagery/mission sensor data (may continue into 2017 but with mapping degradation over time)
 - FNMOC working a requirement to receive DRO F-19 microwave data via Mark IVB.
- **F-20** launch is highly unlikely

Risk Reduction for Windsat

- The Operationally Responsive Space (ORS) COWVR mission will only have ground processing software /raw data to FNMOC
- FNMOC and NRLMRY working together on Risk Reduction for Windsat and DMSP replacement Weather Satellite Follow-on Microwave (WSF-M)
- In WSF-M timeframe, 557th WW and FNMOC will be delivered raw data and run the ground processing software

COSMIC 2

Per latest NOAA COSMIC 2 presentation to COES:

- Summary status: “COSMIC-2 Team is positioned for a successful mission and on schedule to support a C-2A launch in 2017”

Thank you -- questions?