

# Working Group/Observational Data (Satellite Data)

## Fall 2016 COPC

### **Co-Chairs:**

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Exec. Secretary:

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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)	FNMOC	NESDIS	Closure
SMAP	557th	NESDIS	Access Approval (data not yet acquired - TBD)
Radarsat	FNMOC	NESDIS	Implementation
Jason-3	NAVO	NESDIS	Closure
SSMIS Upper Air Soundings (UAS) Unified Pre-Processor (UPP)	NESDIS	FNMOC	Implementation
S-NPP Ice Concentration	557th	NESDIS	Implementation

# Satellite Data Requests

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Data	Requestor	Provider	Status/Phase
ASCAT from Metop A/B	NAVO	NESDIS	Closure
AMSU-A from Metop A/B and NOAA-15, 18 and 19	NAVO	NESDIS	Closure
MIRS	NAVO	NESDIS	Implementation
SAPHIR 1A Radiances * (*understood to be data of opportunity only)	FNMOC	NESDIS	Change Approval
ScatSat-1	FNMOC	NESDIS	Access Approval (data not yet acquired - TBD)
SMDB Buoy and Satellite SST	FNMOC	NAVO	Implementation

# Recent Activities

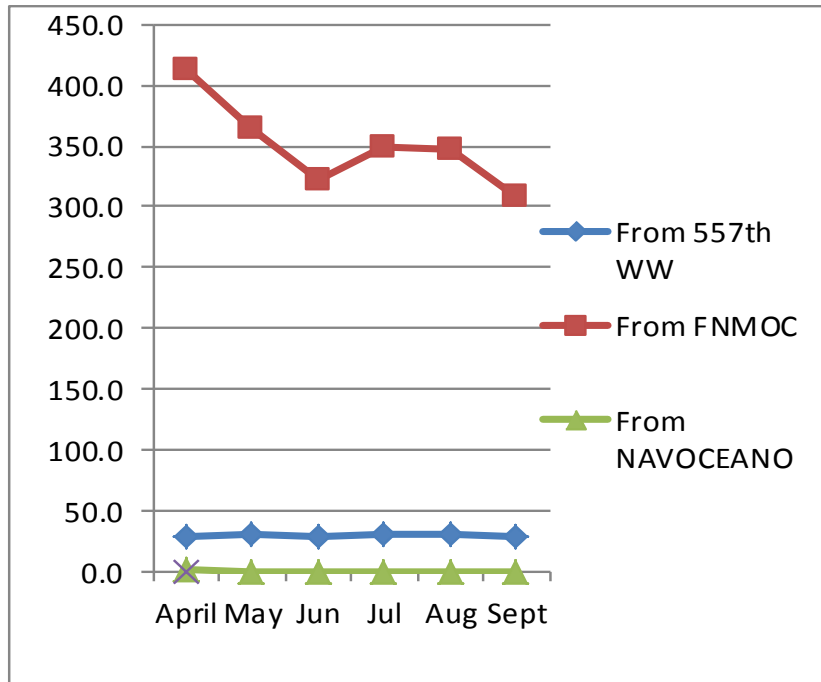
- NAVO and NESDIS/DAPE staff worked to restore Altika data flow subsequent to move from ERO to geodetic non-repeat orbit
- NAVO and FNMOC collaborated to switch data delivery to a new server at FNMOC -- allowed switch from FTP to the more secure SFTP
- NESDIS/DAPE and FNMOC staffs collaborated to establish DAPE Gateway access to new distribution server at FNMOC
- NAVO initiated transfer of SST-buoy matchup data to FNMOC
- NAVO is working with NCEP to increase the number of concurrent connections allowed on their server from 4 to 10
- NAVO began receiving several new data sets from NOAA including AMSR-2 L1R and Sentinel-3A SST

# DAPE Gateway Statistics

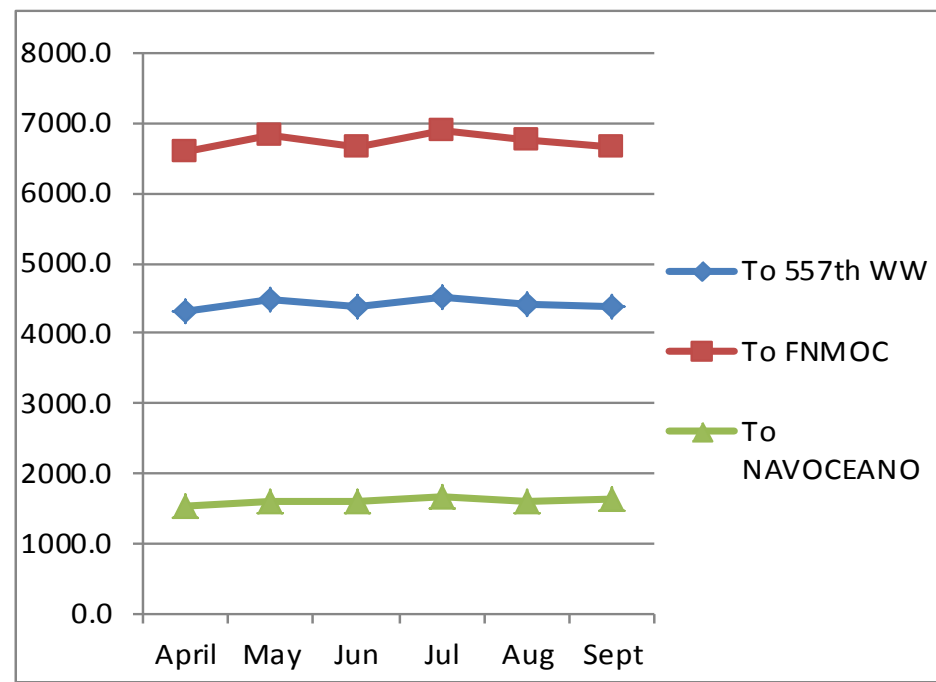
## April 2016 to September 2016

	April	May	Jun	Jul	Aug	Sept
<b>From 557th WW</b>	29.8	30.9	29.7	30.6	30.6	29.7
<b>From FNMOC</b>	411.9	364.5	321.4	348.9	346.3	308.2
<b>From NAVOCEANO</b>	1.2	0.1	0.1	0.1	0.1	0.1
	April	May	Jun	Jul	Aug	Sept
<b>To 557th WW</b>	4325.7	4480.9	4374.0	4521.7	4426.6	4387.7
<b>To FNMOC</b>	6586.3	6823.7	6653.0	6877.4	6756.9	6667.6
<b>To NAVOCEANO</b>	1540.2	1609.6	1609.6	1674.4	1611.2	1635.6

**Data sent to NESDIS**



**Data sent from NESDIS**



**Volume in GB/month**

# CIP Fail-over

- **ESPC CIP Fail-over**

- Last CIP fail-over was conducted on September 21, 2016
  - This fail-over was network flip only
  - Fail-over was successful with no major issues
- Next CIP fail-over is planned for April/May time frame
  - This fail-over will be a full CIP fail-over with users accessing products at the CIP

Note – CIP is Critical Infrastructure Protection (i.e. COOP site) for ESPC that functions as a transparent backup for the most critical ESPC data services.

# Ongoing Activities

- Jason-2 Interleave (10 day ERM, 66 Degree, 1336 km)
  - Monitoring Pre-operational Access – effective mid-October '16
  - Increases TOPEX/Jason coverage by 100%; improves mesoscale feature identification
  
- Preparing for Goes-R data after launch
  - Launch is currently delayed because of impacts from Hurricane Matthew
  - Delay is due to unspecified damage to launch infrastructure
  - Scheduled November 4 launch now no earlier than November 16
  - Revised launch date is tentative pending approval of the Air Force's 45th Space Wing, which operates Cape Canaveral Air Force Station
  - NOAA: spacecraft itself was safe inside the Astrotech Space Operations facility in nearby Titusville, FL during the storm

# Meteosat-7 Follow-on

- EUMETSAT approved plan to reposition Meteosat-8 satellite to 41.5° E
- Met-7 decommission date is April 2017
- Expected Met-8 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 will be available via EUMETSAT satellite broadcast service
- Efforts are underway to determine how to acquire the data and make them available to the OPCs
- NAVO is pursuing access to Met-8 sea surface temperature data via separate channels



# Other Activities

## Mission Partner (Federated) Gateway

- WG/OD standing by to assist as required 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.

# DMSP

- F-17 recalled as primary for the morning mission
- F-19 continues autonomous transmission of real-time imagery/mission sensor data (may continue into 2017 but with mapping degradation over time)
  - FNMOC submitted a requirement to AF to receive DRO F-19 microwave data via Mark IVB.
  - AF received and is evaluating
- F-20 launch is highly unlikely

# 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 underway

# 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, 557<sup>th</sup> 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?