

Current Status & Updates

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13th International Winds Workshop, Monterey, USA June 27, 2016



111:1

TOPIC

- Status of GOES and POES Satellites
- Operational AMV System and Products
 - AMV System Architectures
 - AMV Products, Monitoring, and Distribution
- Operational ASCAT processes and products
- Update on Satellites, Products, and Systems

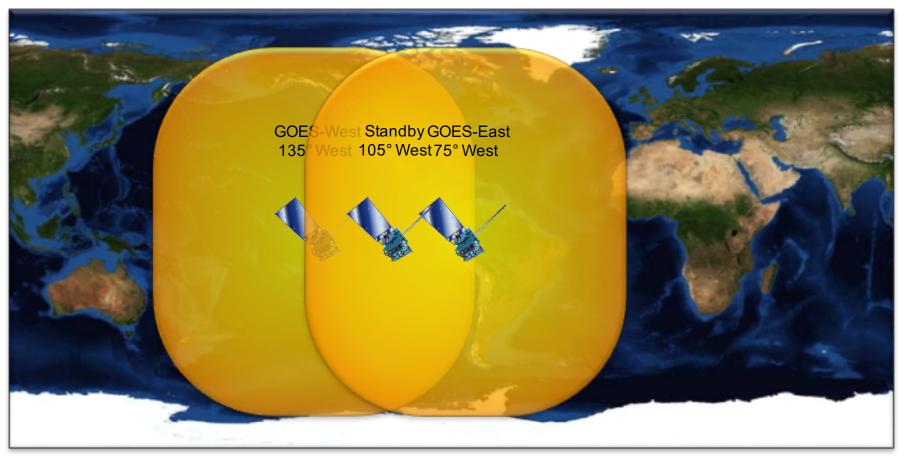


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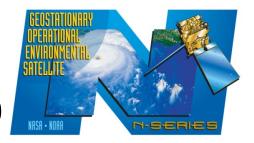
Nominal GOES Constellation



- Continuity of Operations since 1974
- GOES 13/14/15 improvements over GOES 10/11/12
 - Spring and fall eclipse outages are avoided by larger onboard batteries
 - Improved navigation and radiometrics



GOES-13 (East) Launch: May 2006 | Operational: April 2010



No Issue on Imager Instrument



Issue:

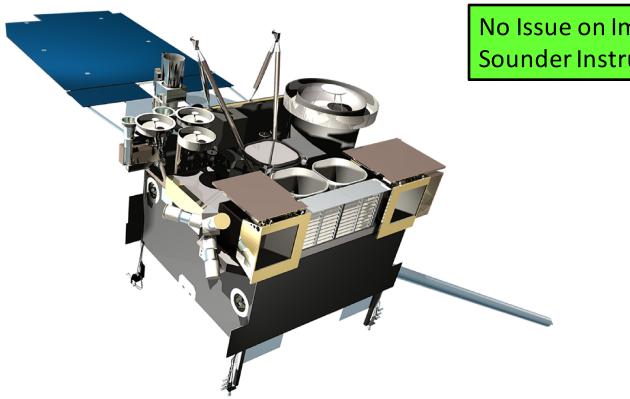
Sounder filter wheel anomaly. Sounder frame sync losses.

Impact: Sounder IR data are not usable.



GOES-14 (Standby) Launch: June 2009 | Operational: N/A





No Issue on Imager and Sounder Instrument



GOES-15 (West) Launch: March 2010 | Operational: Dec 2011



No Issue on Imager Instrument

lssue:

Sounder temperature control blanket is raised. To maintain patch temperature control, a yaw flip at Equinox to keep Sun angle below cooler plane.

Impact:

1 hour data outage and degraded products during each yaw flip maneuver and 28 hours of INR (Image Navigation & Registration) recovery period.



POES Constellation

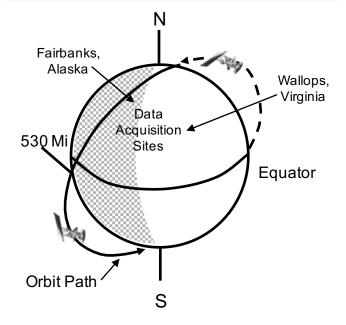
AM Orbit (Metop-B)



- Two polar operational satellites; one in morning and one in afternoon orbit. Each orbit is 102 minutes
- Since May 2007, NOAA using EUMETSAT satellite operationally for mid-morning orbit through NOAA/EUMETSAT partnership
- Each satellite provides world-wide coverage every 12 hours (6-hour global sampling for the pair)
- Directly broadcasts data to global users

PM Orbit (S-NPP)





• Continuity of operations since early 1960s





S-NPP Status as of June 2016



Spacecraft	S-NPP
Launch Date	Oct 28, 2011
Mission Category	LTAN 1330 (PM) +/- 10 mins

NAME AND ADDRESS
S. W. S.

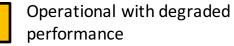
Payload Instruments	Status
ATMS	G
CERES	G
CrIS	G
OMPS – Nadir	G
OMPS – Limb	G
VIIRS	G



Operational (or capable of)



Operational with limitations (or in standby)





Not functional

Spacecraft Subsystem	Status
TLM, Command & Control	G
ADCS	G
EPS	G
Thermal Control	G
Communications	G
CDP	G
SCC	G
GPS	G
1553	G
1394	G



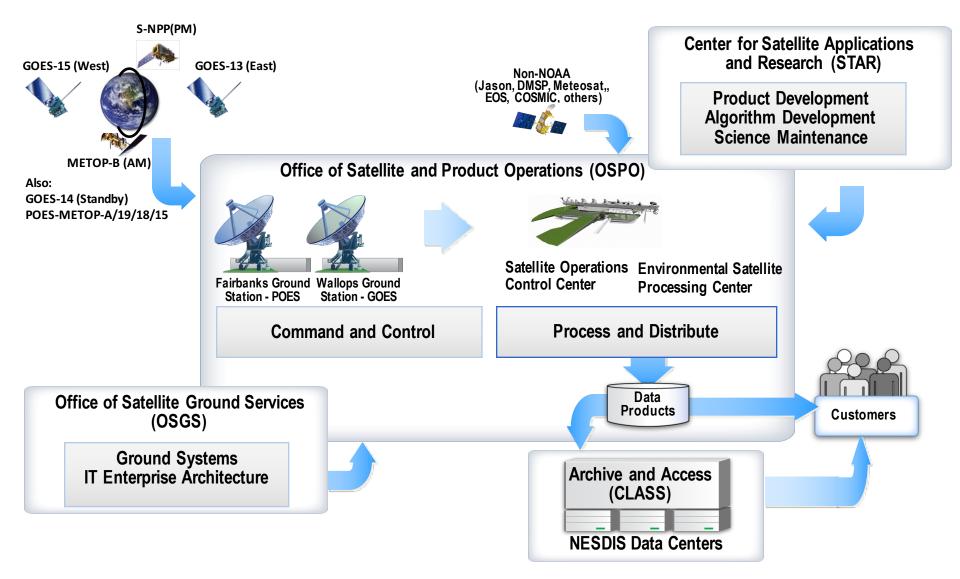
Functional but turned off



No status reported

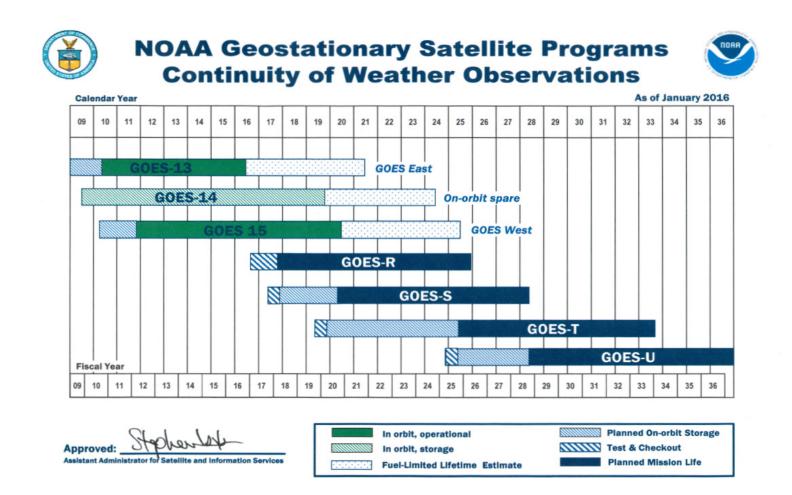
OFFICE OF SATELLITE AND PRODUCT OPERATION

Satellite Information Flow





GOES Flyout Schedule



http://www.nesdis.noaa.gov/flyout_schedules.html

OFFICE OF SATELLITE AND PRODUCT OPERATIONS

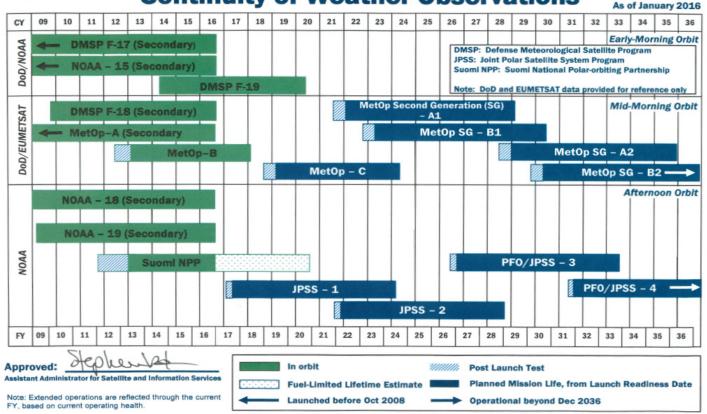


LEO Flyout Schedule



NOAA & Partner Polar Satellite Programs Continuity of Weather Observations





http://www.nesdis.noaa.gov/flyout_schedules.html



OFFICE OF SATELLITE AND PRODUCT OPERATIONS

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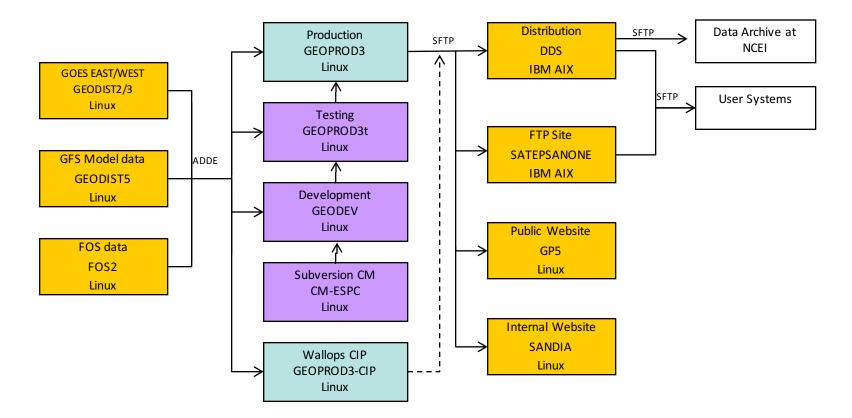


Operational AMV Systems

- GOES and POES AMV System
 - Generate GOES, MODIS, and AVHRR AMV products
 - Run on Linux VM server
- OSPO NDE system
 - An Enterprise System for S-NPP
 - Generate S-NPP VIIRS Polar Winds



GOES/POES Winds System and Data Flow



SATEPS Security at ESPC/NSOF

Production Zone
Development Zone
Distribution Zone (DMZ)
External User Zone

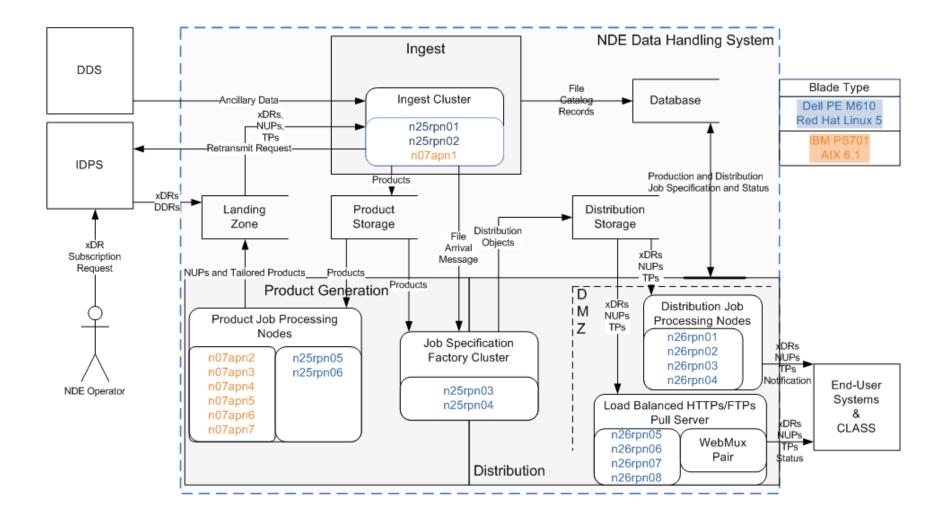


OSPO NDE System

- S-NPP Data Exploitation (NDE) is an enterprise system to generate and distribute S-NPP products
- NDE Data Handling System (DHS) consists of Ingest, Product Generation, Product Distribution and Monitoring subsystems
- Numerous Linux servers and SAN
- VIIRS Polar Winds is one product from NDE



OSPO NDE System Diagram





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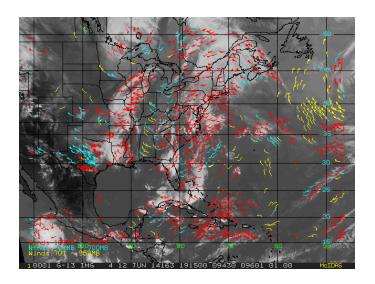
Update on Operational AMV Products

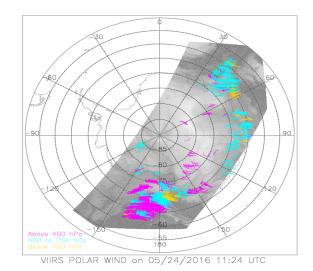
- Discontinued AMV products in recent years
 - GOES-E Sounder Water Vapor Channel Winds in November 2015
 - (Failed Sounder Instrument on GOES-13)
 - MTSAT-2 Winds in December 2015
 (Decommissioned MTSAT-2 Satellite)



Update on Operational AMV Products

- AMV products in operation
 - GOES, MODIS, AVHRR, and S-NPP VIIRS Winds







Operational AMV Products (1/4)

AMV Products	Frequency (hours)	Image Sectors	lmage Interval (min)	WMO Header
		GOES		
LWIR (10.68um)	1	CONUS/PACUS	15	JACX11 (GOES-E)
Cloud-drift	1	NHEM/SHEM	30	JCCX11 (GOES-W)
SWIR (3.9um)	1(Nighttime)	CONUS/PACUS	15	JQCX11 (GOES-E)
Cloud-drift	1 (Nighttime)	NHEM/SHEM	30	JRCX11 (GOES-W)
Water Vapor (6.55um)	1	NHEM/SHEM	30	JECX11 (GOES-E) JGCX11 (GOES-W)
Visible (0.625um) Cloud-drift	1 (Daytime)	CONUS/PACUS	15	JHCX11 (GOES-E) JJCX11 (GOES-W)
	1 (Daytime)	NHEM/SHEM	30	



Operational AMV Products (2/4)

AMV Products	Frequency (hours)	Image Sectors	lmage Interval (min)	WMO Header
		GOES SOUNDER		
Sounder WV (7.4um)	1	Tropical	60	JMCX11 (GOES-W)
Sounder WV (7.0um)	1	Tropical	60	JPCX11 (GOES-W)
	А	QUA/TERRA MOD	IS	
LWIR (11um) Cloud-drift	2	NHEM/SHEM (poleward 65°)	100	JBCX11 (TERRA) JICX11 (AQUA)
Water Vapor (6.7um)	2	NHEM/SHEM (poleward 65°)	100	JLCX11 (AQUA)

AND PRODUCT

UFFICE

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SATELLITE

OPERATIONS



Operational AMV Products (4/4)

AMV Products	Frequency (hours)	Image Sectors	Image Interval (min)	WMO Header
		AVHRR		
LWIR Cloud-drift	2	NHEM/SHEM (poleward 65°)	100	JCVX98 (Metop-B) JCVX95(N19) JCVX97(Metop-A) JCVX94(N18) JCVX91(N15)
		VIIRS		
LWIR (10.76um) Cloud-drift	2	NHEM/SHEM (poleward 65°)	100	INVX01 INVX02 INVX03



Operational GOES AMV Monitoring

Monitor of GOES-E HD Winds Operations

Friday, 06/24/2	2016	Pre	v Day ·	<<-	S	aturday	r, 06/18	8/2016	911	>>	Next Da	ay													
16:09:49 UT	C	00Z	01Z	02Z	03Z	04Z	05Z	06Z	07Z	08Z	09Z	10Z	11Z	12Z	13Z	14Z	15Z	16Z	17Z	18Z	19Z	20Z	21Z	22Z	23Z
Northern	CD	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd Bufr															
	SW	N/A	Wnd	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A												
Hemisphere	vz	Wnd	N/A	Wnd Bufr	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd											
(NH)	WV	Wnd	Wnd Bufr	Wnd	Wnd Bufr	Wnd Rufr	Wnd Bufr	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd	Wnd							
	CD	Wnd Bufr	Wnd	Wnd Bufr	N/A	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wno													
Southern	SW	N/A	Wnd Bufr	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A											
Hemisphere	VZ	Wnd Bufr	N/A	Wnd Bufr	Wnd Bufr	Wnd Bufr	N/A	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wno Buf											
(SH)	wv	Wnd Bufr	N/A	Wnd Bufr																					
	CD	Wnd Bufr	N/A	Wnd Bufr																					
CONUS	SW	N/A	N/A	Wnd	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A										
	VZ	Wnd Bufr	N/A	Wnd Bufr	Wnd Bufr	Wnd Bufr	N/A	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufr	Wnd Bufi											



Operational POES AMV Monitoring

	MET	OP-A High l	Density Wind	ls		MET	OP-B High I	Density Wind	ls
·	06/24/16 12:22 Wind BUER	06/24/16 10:40 Wind BUFR	06/24/16 08:59 Wind BUFR	06/24/16 07:18 Wind BUFR		06/24/16 13:15 Wind BDFR	06/24/16 11:33 Wind BUILTS	06/24/16 09:52. Wind BOFR	06/24/16 08:10 Wind BUEX
N.	06/24/16 05:36 Wind BUFR	06/24/16 03:55 Wind BURR	06/24/16 02:14 Wind BUFR	06/24/16 00:32 Wind BUFR	N.	06/24/16 06:29 Wind BUER	06/24/16 04:48 Wind BUFR	06/24/16 03:06 Wind BUFR	06/24/16 01:25 Wind BUF
H.	06/23/16 22:51 Wind BUFR	06/23/16 21:09 Wind EUFX	06/23/16 19:28 Wind BUER	06/23/16 17:47 Wind BUER	н.	06/23/16 23:44 Wind EUEX	06/23/16 22:02 Wind BUFR	06/23/16 20:21 Wind BUER	06/23/16 18:40 Wind BUFR
	06/23/16 16:05 Wind BUFR	06/23/16 14:24 Wind BDFR	06/23/16 12:43 Wind BUER			06/23/16 16:58 Wind BUFE	06/23/16 15:17 Wind BUICK	06/23/16 13:35 Wind BUFR	
	06/24/16 11:31 Wind ISUEX	06/24/16 09:50 Wind BUFR	06/24/16 08:08 Wind BUFR	06/24/16 06:27 Wind BUFX		06/24/16 12:24 Wind BUFR	06/24/16 10:42 Wind BUFR	06/24/16 09:01 Wind BUFR	06/24/16 07:20 Wind EUEX
S.	06/24/16 04:46 Wind BUFR	06/24/16 03:04 Wind BUFR	06/24/16 01:23 Wind BUFR	06/23/16 23:41 Wind BUFR	s.	06/24/16 05:38 Wind BOFR	06/24/16 03:57 Wind BUER	06/24/16 02:16 Wind BUFR	06/24/16 00:34 Wind BUFR
H.	06/23/16 22:00 Wind BOFR	06/23/16 20:19 Wind BUFR	06/23/16 18:37 Wind BUFR	06/23/16 16:56 Wind BOFR	н.	06/23/16 22:53 Wind BUFK	06/23/16 21:12 Wind BUPS	06/23/16 19:30 Wind BUFR	06/23/16 17:49 Wind BUFX
5	06/23/16 15:15 Wind BUER	06/23/16 13:33 Wind BUFR	06/23/16 11:52 Wind BUFR			06/23/16 16:08 Wind BUER	06/23/16 14:26 Wind EURA	06/23/16 12:45 Wind BUFR	

	NOA	A-18 High I	ensity Wind	s		NOA	A-19 High I	ensity Wind	s
	06/24/16 10:45 Wind BUER	06/24/16 09:03 Wind BUFS	06/24/16 07:21 Wind BUER	06/24/16 05:39 Wind BUPS		06/24/16 13:05 Wind BUIES	06/24/16 11:23 Wind EUF 8	06/24/16.09:41 Wind BUFR	06/24/16 07:59 Wind BUFR
N.	06/24/16 03:57 Wind BUFR	06/24/16 02:15 Wind BUFR	06/24/16 00:33 Wind BUFR	06/23/16 22:51 Wind BUFR	Ν.	06/24/16 06:17 Wind BUER		06/24/16 02:52 Wind BUFR	06/24/16 01:10 Word BLOFR
H.	06/23/16 21:09 Wind BUER	06/23/16 19:27 Wind BUFR	06/23/16 17:45 Wind BUER	06/23/16 16:03 Wind BUTT	H.	06/24/16 01:10 Wind 19000	06/23/16 23:28 Wind ELLER	06/23/16 21:46 Wind BUDG	06/23/16 20:04 Wind BLIFS
	06/23/16 16:03 Wind BUFR	06/23/16 14:21 Word BUTCR	06/23/16 14:21 Wind BUFR	06/23/16 12:39 Wind BUPS		06/23/16 18:22 Wind HULR	06/23/16 16:40 Wind BLIFS	06/23/16 14:58 Wind BUFR	06/23/16 13:16 Wind BUBB
	06/24/16 09:54 Wind BUF R	06/24/16 08:12 Wind BUFR	06/24/16 06:30 Wind BUFR	06/24/16 04:48 Wind BUFX		06/24/16 12:14 Wind BUER	06/24/16 10:32 Wind BUFR	06/24/16 08:50 Wind HUFR	06/24/16 07:07 Wind BUFR





OSPO NDE Process Monitoring

NDE DATA HANDLING SYSTEM NDE OP1 ∽ 0586 secs 🗸 Last 24 hrs 🗸 adminuser 🗸 NaN% Used < 1 / 1 > SAN Notices There are no notices at this time Cleanup: 15 sec ago view all Ingest Product Generation Distribution Customer Hosts Failures: 4 Data Denial: ON No orbit data n24rpn03 Expired: 0 Failures: 8 dds.nesdis.noaa.gd Failures: 9 Excv CPU: 0 Latency: 1342 Old Files: 402 n07apn2 n26rpn01 n07apn2 n26rpn01 n07apn3 n07apn3 n07apn4 n07apn4 n07apn5 517 1310 20 1856 n07apn5 Bcklog Thrput Bcklog Thrput n07apn6 Bcklog Thrput n07ppp6

Log/Alert	Summaries				
Туре	Host	Count	Message	Last Occurred	
NOTIFY	6	1	Resource (Res ID: 6) is DOWN	2013-06-27 08:45:04	
NOTIFY	7	1	Resource (Res ID: 7) is DOWN	2013-06-27 08:45:04	
NOTIFY	13	1	Resource (Res ID: 13) is DOWN	2013-06-27 08:45:04	
NOTIFY	16	1	Resource (Res ID: 16) is DOWN	2013-06-27 08:45:04	
NOTIFY	17	1	Resource (Res ID: 17) is DOWN	2013-06-27 08:45:04	
NOTIFY	23	1	Resource (Res ID: 23) is DOWN	2013-06-27 08:45:04	
NOTIFY	26	1	Resource (Res ID: 26) is DOWN	2013-06-27 08:45:04	
NOTIFY	27	1	Resource (Res ID: 27) is DOWN	2013-06-27 08:45:04	
					-

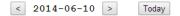


VPW Quality Monitoring

Product Monitor

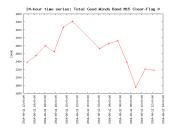
imgs

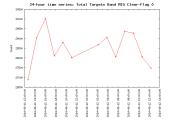
Manual Plotting Tool



●Good ●Warning ●Bad ●Unknown

Product	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
ACSPO_SST		•		•		•								•				•	•				•	
NPR_MIRS	•	0	•	•	•	0	•	•	•	٠	0		•	•	•	•	•	•	•	•	•	•	•	
NUCAPS_Rad	•	•	•	•	•	•		•	•		•		•	•	•	•	•	•	•			•	•	•
NUCAPS_Ret	•		•	•	•			•	•				•			•		•	•			•	•	•
VPW_NH																								
VPW_SH											\bullet													

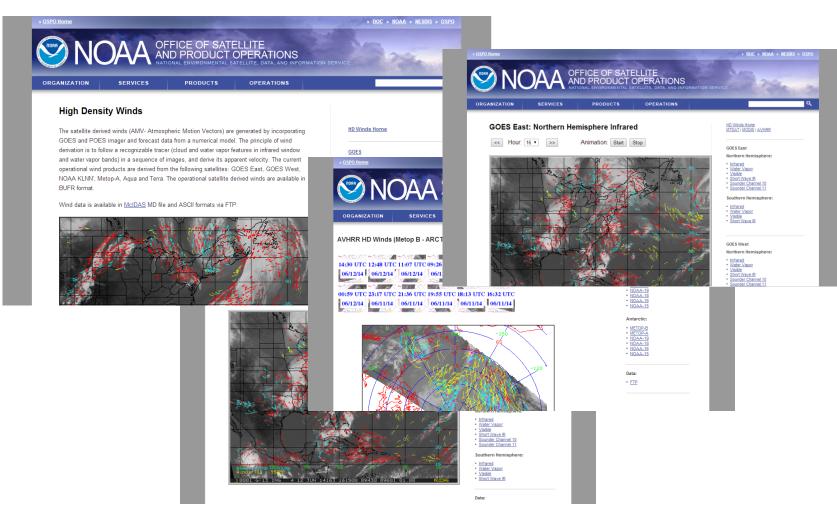




- New quality monitoring tool which has one database as the backend
- More information of the process and products on metadata and database
- Benefit the monitoring of AMV product quality in the longer term
- Automatic email warning notification



OSPO AMV Products Web Pages



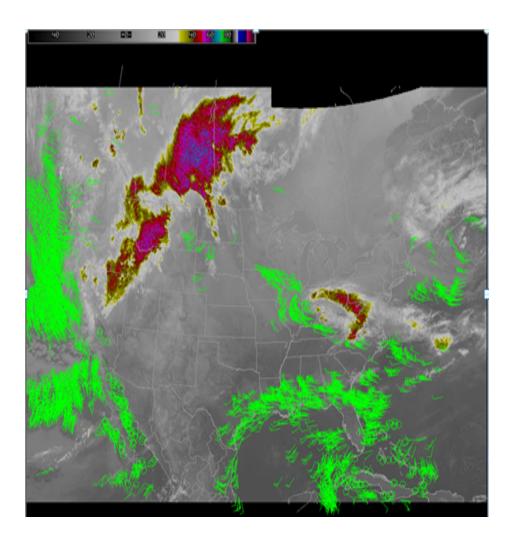
http://www.ospo.noaa.gov/Products/atmosphere/hdwinds/index.html OFFICE OF SATELLITE AND PRODUCT OPERATIONS

Operational AMV Products Distribution

- GOES, POES and MODIS AMV products are distributed via DDS server for NOAA users and via GTS for international users
- S-NPP VIIRS Polar Winds is being distributed via OSPO NDE distribution subsystem (FTPS transfer protocol is needed) and GTS with EUMETSAT help



Day to Day Uses of AMV at AWIPS



- NWS AWIPS gives the field forecasters access to a multitude of digital data to help them in daily forecast preparation
- AWIPS display software allows for easy integration of AMVs with a multitude of other data sources like model analyses/forecasts, observations from other observation systems)

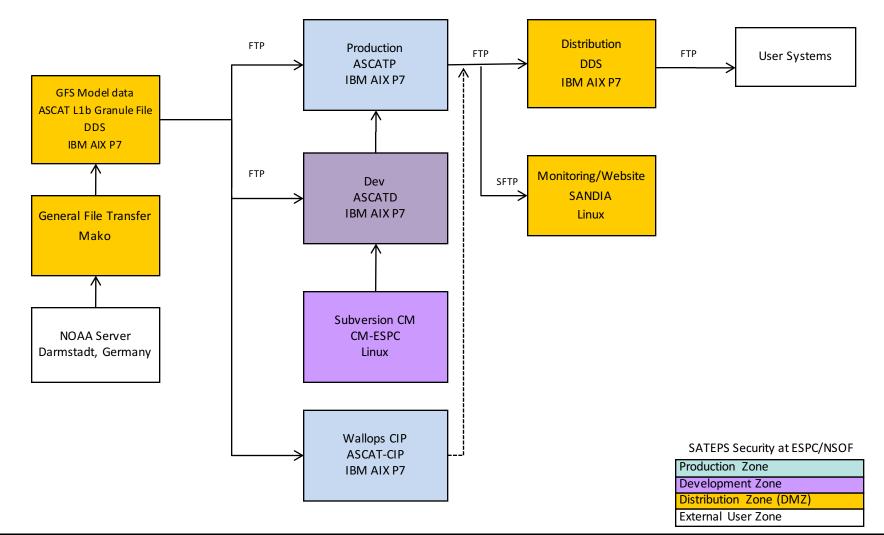


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ASCAT Ocean Surface Wind System and Data Flow





Operational ASCAT Winds (1/2)

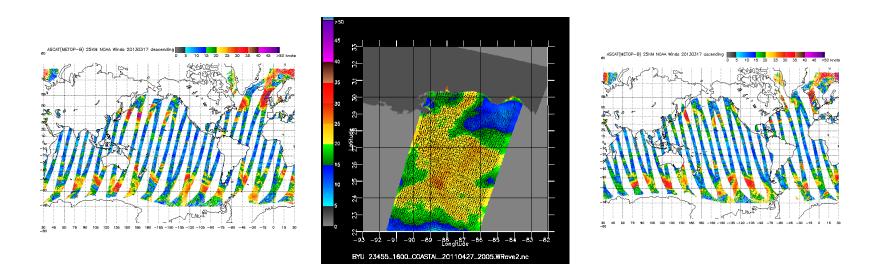
- Metop-B and Metop-A ASCAT
 - 50 km and 25 km OSVW products
 - 50 km
 - 3-min granule files in BUFR and binary
 - 3-min ASCAT-lite files for NAWIPS (binary)
 - 25 km
 - 3-min granule files in BUFR and binary
 - 3-min ASCAT-lite files for NAWIPS (binary)
 - 3-min ASCAT-lite files for AWIPS (BUFR)



Operational ASCAT Winds (2/2)

Enhanced resolution wind products

• Tropical cyclone storm sector wind speed imagery





ASCAT Winds Monitoring

ASCAT Process Monitor X	Color Key X
25 Km Granules Process Status Color Key Quick Ref	v Grande Color Key
	Unprocessed
040	Done
	Done but Late Error
	Ready
120	
	Process Color Key
260	transfer the second sec
	ASCAT Process Status File X
200	2008 09 19 001 R 20080919000000 20080919000258 D D U U U U U
249	2008 09 19 002 R 20080919000000 20080919000258 D D U U U U U
	2008 09 19 003 R 20080919000600 20080919000858 D D U U U U U
200	2008 09 19 004 R 20080919000900 20080919001159 D D U U U U U
	2008 09 19 005 R 20080919001201 20080919001459 D D U U U U U
320	2008 09 19 006 R 20080919001501 20080919001759 D D U U U U U
349	2008 09 19 007 R 20080919001801 20080919002059 D D U U U U U U
	2008 09 19 008 R 20080919002101 20080919002359 D D U U U U U U
	2008 09 19 009 R 20080919002401 20080919002658 D D U U U U U U
	2008 09 19 010 R 20080919002700 20080919002959 D D U U U U U
440	2008 09 19 011 R 20080919003001 20080919003258 D D U U U U U
41	2008 09 19 012 R 20080919003300 20080919003559 D D U U U U U
	2008 09 19 013 R 20080919003601 20080919003858 D D U U U U U
Processing Date: 09/19/2008 (0/10/10/2) 113	2008 09 19 014 R 20080919003900 20080919004159 D D U U U U U
L2: 56.5% LATE: 0.0%	2008 09 19 015 R 20080919004201 20080919004458 D D U U U U U
	2008 09 19 016 R 20080919004500 20080919004759 D D U U U U U U 2008 09 19 017 R 20080919004801 20080919005058 D D U U U U U
Res 50Km Res 25Km	2008 09 19 017 R 20080919004001 20080919005358 D D U U U U U
Prev Day Next Day	2008 09 19 019 R 20080919005400 20080919005659 D D U U U U U
Quit	2008 09 19 020 R 20080919005700 20080919005959 D D U U U U U
	2008 09 19 021 R 20080919010001 20080919010259 D D U U U U U
	2008 09 19 022 R 20080919010301 20080919010559 D D U U U U U U
	2008 09 19 023 R 20080919010600 20080919010858 D D U U U U U U
and the second	2008 09 19 024 R 20080919010900 20080919011158 D D U U U U U U
and the second	2008 09 19 025 R 20080919011200 20080919011458 D D U U U U U
	2008 09 19 026 R 20080919011500 20080919011758 D D U U U U U U
	2008 09 19 027 R 20080919011800 20080919012058 D D U U U U U
	2008 09 19 028 R 20080919012100 20080919012358 D D U U U U U
	2008 09 19 029 R 20080919012400 20080919012659 D D U U U U U
the second s	2008 09 19 030 R 20080919012700 20080919012959 D D U U U U U
	2008 09 19 031 R 20080919013001 20080919013259 D D U U U U U U 2008 09 19 032 R 20080919013301 20080919013559 D D U U U U U U U
	2008 09 19 052 K 20080919013301 20080919013559 0 0 0 0 0 0 0

- A Java based automatic monitoring tool for ASCAT winds
- Monitoring the process on 3-minute granule level
- Ability to display the status from data ingest, process and distribution

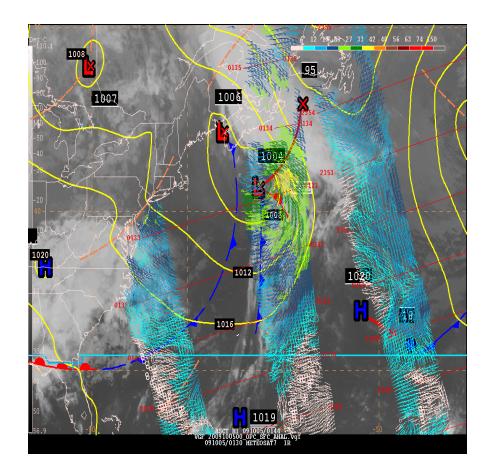


Operational ASCAT Winds Distribution

- ASCAT winds are distributed via DDS server
- Main NOAA users
 - National Hurricane Center (NHC)/Tropical
 Prediction Center (TPC)
 - Ocean Prediction Center
 - Alaska and Pacific Regions
 - Coastal Weather Forecast Offices
 - Great Lakes Weather Forecast Offices
 - Environmental Modeling Center (EMC)

Day to Day Uses of ASCAT at OPC

- Identify weather features
- Marine wind warnings
- Short term marine forecasts
- Real-time Verification





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- Operational ASCAT processes and products
- Update on Satellites, Products, and Systems

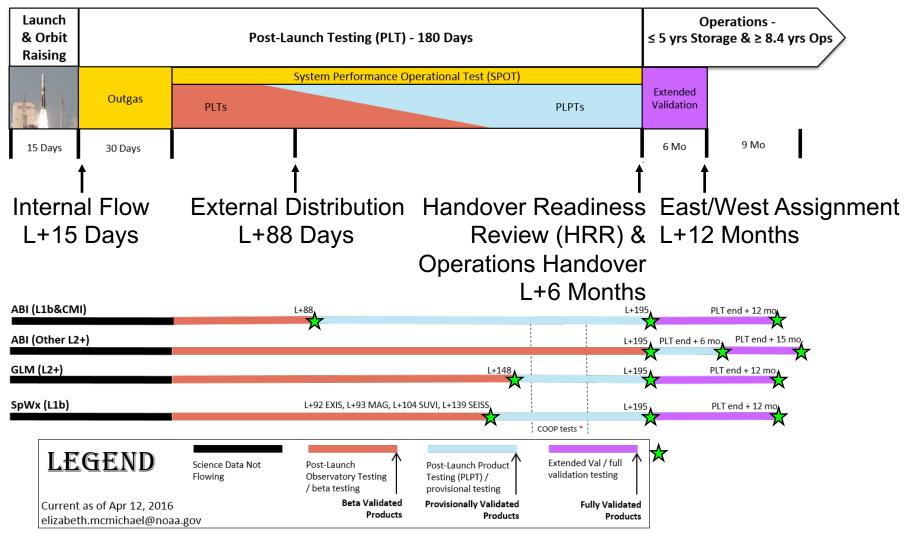


Update on GOES-R Satellite

- GOES-R Launch: Nov. 4, 2016 to 89.5 deg West
- Post-Launch Testing: Nov. 2016 Apr. 2017 at 89.5 deg West
- Extended Validation: Apr. 2017 Nov. 2017 at 89.5 deg West
- Positioned at GOES-East or West: Nov. 2017



Data Release & Product Validation Schedule



* Two one-day data blackout during this period due to COOP tests.

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PRUDUCT

UPERA



GOES-R Winds

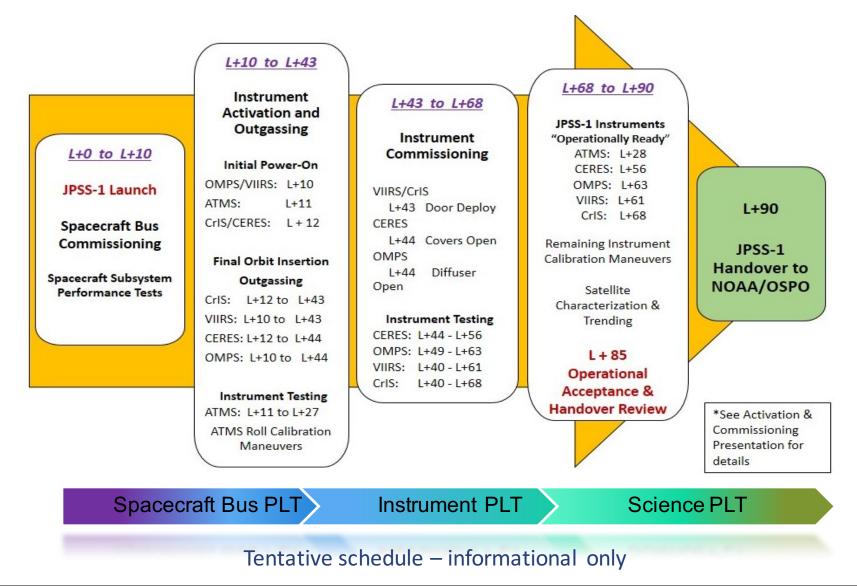
- Available in NETCDF format and BUFR formats with new BUFR table
- Begin to be distributed to users via PDA at Launch+6 months
- A provisional validation maturity status at Launch+1 year
- A full validation maturity status at Launch+21 months
- Plan to be disseminated via GTS

Update on JPSS-1 Satellites

- Proposed JPSS-1 Launch date is around Jan., 2017
- JPSS-1 Handover to OSPO at Launch+90 days



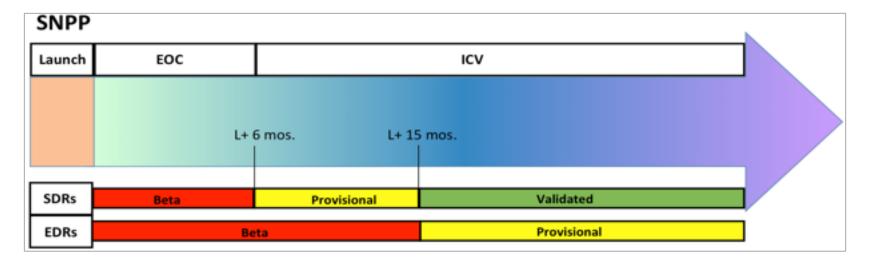
On-orbit Commissioning Timeline Overview (JPSS-1) Launch Readiness Date (LRD) - Jan 2017



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JPSS-1 Cal/Val Timeline (Draft Version)



JPSS-1

Launch	EOC	ICV			LTM		
	L+ 3	mos. L+ (6 mos.	L+ 1	8 mos.		
SDRs	Beta	Provisional	Validated		LTM		
EDRs	Bet	а	Provisional		Validated	LTM	

Early Orbit Checkout (EOC); Intensive Cal/Val (ICV); Long Term Maintenance (LTM) Note – this is an early draft timeline; a detailed schedule is to be available In summer 2016.



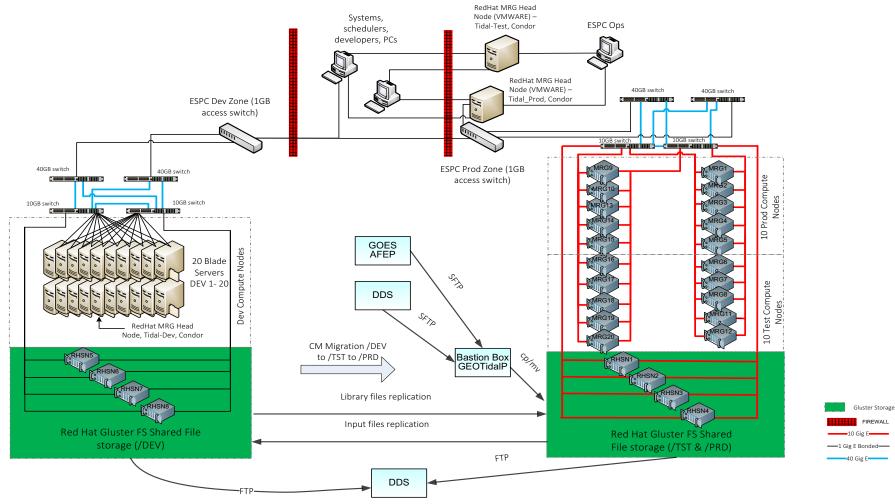
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JPSS-1 VIIRS Polar Winds

- Products will be in operation in June 2018
- Will be run on OSPO NDE system as S-NPP VPW
- Available in NETCDF format and BUFR formats with new BUFR table
- Will be distributed via PDA



CHOPS 2.0 Architecture Diagram



CHOPS 2.0 Architecture 03152016.vsd



Update on AMV Products

- New Improved GOES Winds (Expected to be available in Spring 2017)
 - Using GOES-R algorithm with current GOES data
 - Available in NetCDF4 format and BUFR format with new BUFR table
 - Will run on CHOPS 2.0
 - Plan to provide users the testing period in parallel with current GOES AMV products



Update on AMV Products

- MODIS/AVHRR Winds with GOES-R Algorithm (June, 2017)
 - Will be generated by the same GOES-R algorithm as S-NPP VIIRS Polar Winds
 - Avoid the different error characteristics from different algorithm
 - Will run on CHOPS 2.0



New Processing & Distribution

- PDA Product Distribution and Access System
- All near real time distribution will be done from PDA
 - GOES-R products
 - S-NPP and JPSS products
 - Other products from currently supported missions



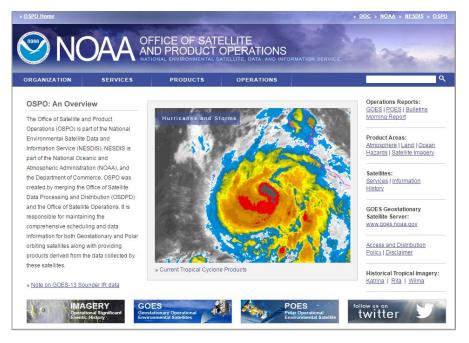
New Processing & Distribution

- Highly automated, user driven process
- User managed search and tailoring
- OSPO to manage and update international user subscriptions, same as current DDS
- Currently GOES-R data is expected to be the first products available on PDA



Data Access & Distribution Policy

Contact: NESDIS.data.access@noaa.gov



www.ospo.noaa.gov

- To consistently vet user requests for near real-time satellite data and products based on organizational affiliation or type of application
- To effectively manage data distribution resources to ensure effective system performance
- To be in compliance with policy, procedures and required interconnection agreements with NIST/DOC IT security regulations
- To factor ESPC IT system planning and future distribution resource availability and capacity needs into data access decisions



Contact Information for Operational Wind Products

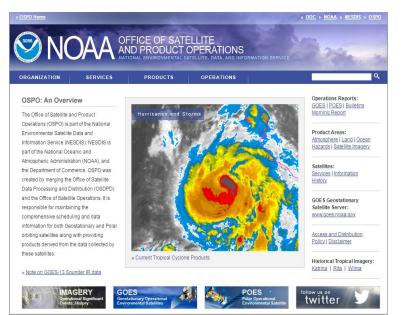
Hongming Qi

Winds PAL (Product Area Leader) At NESDIS/OSPO

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Contact Information





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Find us on Facebook	www.facebook.com/NOAANESDIS		
FOLLOW US ON Lwitter	www.twitter.com/usnoaagov_ospo		

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Comments and Questions





Dzieki Ačiū TACK! Þakka þér fyrir Takk Danke! Teşekkürler Salamat Mahalo Cam on ban 谢谢您 dhanayawad Grazie XвалаKiitosBedanktmultumeselCiacuboΣε ευχαριστώΞΑΤΕΙΥΑΔΥΤΕΙΥΑHvala THANK YOU! Go raibh maith agat ありがとうございました I LINIAN LOO Domo merci! Благодаря a dank! Toda הדות Paldies TANAN vďaka! Asante

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