



# JPSS Proving Ground and Risk Reduction Update 12 Jan 2015



# Important Topics

- JPSS Program Status
- SNPP Initiatives of Interest
- JPSS Science Seminars
- Conferences and Meetings



# JPSS Program Status

- Program Review
  - JPSS Ground Segment Integration Review II (GSIR II) – Jan 14-15, 2015
  - JPSS-1 System Integration Review (SIR) – Feb 25-27, 2015
  - JPSS-1 Key Decision Point – D (KDP-D) – March 2015
  - JPSS-1 Mission Operations Review (MOR) – March/April 2015
- Instrument Status
  - CERES integration with the JPSS-1 Spacecraft has been successfully completed
  - OMPS integration on to the JPSS-1 spacecraft has started with the Main Electronic Box (MEB) that has been mechanically integrated with the Spacecraft
  - The JPSS Data Products Engineering and Services (DPES) System Engineering Integration and Test (SEI&T) Team completed formal acceptance testing of Government Resource for Algorithm Verification, Independent Testing and Evaluation (GRAVITE) Version 3.1 (GV3.1)



# JPSS PGRR Project Accomplishments

- **River Ice and Flooding Product, Fire and Smoke, and NUCAPS Initiatives continue with monthly telecons**
- **4CY2014 Quarterly Reports are being received**
- **JPSS PGRR Call for Proposals**
  - **Call is focused on specific initiatives**
  - **Letters of Intent for latest due on 13 Jan**
  - **Will identify projects that will provide a full proposal**
  - **Will fund selected projects**



# Conferences/Workshops

- **American Meteorological Society Conference in Phoenix AZ (5-8 Jan 2015)**
  - JPSS sponsored the 11<sup>th</sup> Annual Symposium on New Generation Operational Environmental Satellite Systems
  - A lot of PGRR Projects gave oral or poster presentations
- **February 23-27, 2015:** Science Week, Boulder, CO
- **March 10-11, 2015:** EUMETSAT Science and Technology Working Group, Darmstadt Germany
- **April 14-16, 2015:** CSPP/IMAPP, Darmstadt, Germany. Call-for-Papers went out on 18 Dec
- **April 14-16, 2015:** 6th NOAA Testbed Workshop, Boulder CO
- **April 27 - May 1, 2015:** NOAA Satellite Conference, Greenbelt, MD
- **May 11-15, 2015:** OCONUS Meeting, Anchorage, AK
- **May 18-23, 2015:** CGMS, Boulder CO
- **June 15-19, 2015:** PG/User Readiness, Kansas City
- **July 26-31, 2015:** IGARSS, Milan, Italy
- **August 24-28, 2015:** STAR JPSS Annual Science Team Meeting, NCWCP, College Park, MD
- **September 21-25, 2015:** EUMETSAT Users' Conference, Toulouse, France



# JPSS Science Seminars - Past

Date	Presenters	Topic
November 18, 2013	Mark DeMaria	Joint JPSS-GOES-R Tropical Cyclone Satellite Data Assimilation Discussion
December 16, 2013	Arunas Kuciauskas and Jeff Hawkins	NexSat JPSS Demonstration Project NRL-MRY VIIRS Data and Cal-Val Work
January 27, 2014	Cara Wilson	Facilitating NOS/NMFS End-User Access to VIIRS data
February 24, 2014	Walter Wolf	Uniform Multi-Sensor Algorithms for Consistent Products
March 21, 2014	Alex Gilerson	Development of algorithms for retrieval of chlorophyll-a in the Chesapeake Bay and other coastal waters based on JPSS-VIIRS bands
April 21, 2014	Active Fire Team	JPSS and GOES-R Activities Supporting 2013 Fire Outbreaks
May 19, 2014	Amy Huff Shobha Kondragunta	VIIRS Aerosol Products for Air Quality Applications
June 23, 2014	Dan Pisut	Visualization of Suomi NPP Data
July 21, 2014	Daisuke Hotta Eugenia Kalnay	Application of EFSO to Proactive Quality Control, and Efficient Testing of Forecast Impact of New Instruments
August 18, 2014	Training Team	Introduction to Satellite Training Program and Opportunities
September 29, 2014	Pingping Xie	Infusing JPSS PMW Retrievals to CMORPH Precipitation Estimates for Improved Weather, Climate, and Water Applications
October 20, 2014	Jerry Zhan	Enhance Agricultural Drought Monitoring Using NPP/JPSS Land EDRs For NIDIS



# JPSS Science Seminars

## Future

Date	Presenters	Topic
December 1, 2014	SPORT, Mike Pavolonis	Joint JPSS/GOES-R Low Cloud and Fog
December 15, 2014	Jeff Key	The Cold and The Dark: JPSS and The Cryosphere
January 26, 2015	Mark Eakin	Pushing the Limits: Increasing Resolution of Satellite-Derived Coral Bleaching Products using VIIRS and Geo-Polar Blended SSTs
February 18, 2015	Gary Jedlovec	SPoRT Product Assessments for JPSS
March 23, 2015	Huan Meng	ATMS-Derived Snowfall Rate Product and its Applications in Weather Forecasting and Hydrology
April 20, 2015	Danny Satterfield	Broadcast Meteorology use of Satellites
May 18, 2015	Felix Kogan	SNPP Drought & Products Portal
June 22, 2015		
July 20, 2015		
August 17, 2015		
September 21, 2015	Julie Price	
October 19, 2015		
November 17, 2015		
December 14, 2015		
January 11, 2016		
February 22, 2016		
March 21, 2016		



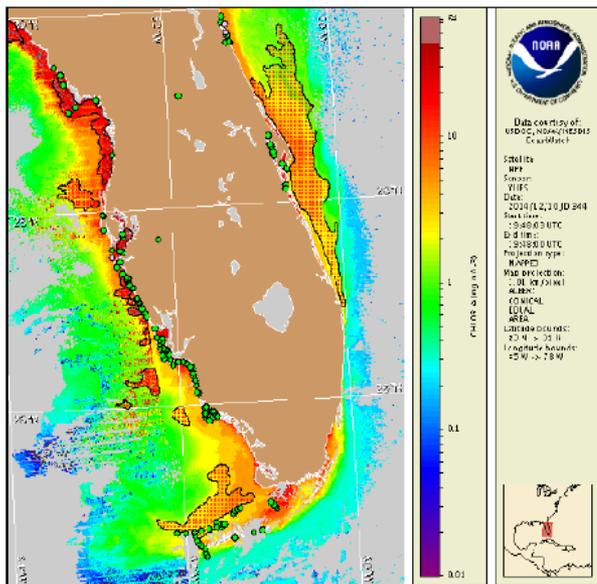
This image from the Suomi NPP satellite's Day/Night Band shows the eastern part of the U.S. clearly for the most part, highlighting the snow on the ground from the latest storms. Cold air moving over the Great Lakes and upper-level energy will aid in producing lake effect snow downwind from the Great Lakes on Thursday morning while a developing clipper system will move eastward from the Northern Plains to the Great Lakes by early Friday morning and then northeastward to Eastern Canada by Friday evening.

# Gulf of Mexico HAB – 12 Jan 2015



## Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Southwest Florida  
 Friday, 12 December 2014  
 NOAA National Ocean Service  
 NOAA Satellite and Information Service  
 NOAA National Weather Service  
 Last bulletin: Tuesday, May 27, 2014



Satellite chlorophyll image with possible *L. brevis* HAB areas shown by red polygon(s), when applicable. Points represent cell concentration sampling data from December 2 to 11: red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). Cell count data are provided by Florida Fish and Wildlife Conservation Commission (FWC) Fish and Wildlife Research Institute. For a list of sample providers and a key to the cell concentration categories, please see the HAB-OFS bulletin guide:

[http://tidesandcurrents.noaa.gov/hab/habfs\\_bulletin\\_guide.pdf](http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf)

Detailed sample information can be obtained through FWC Fish and Wildlife Research Institute at: <http://myfwc.com/reddestatus>

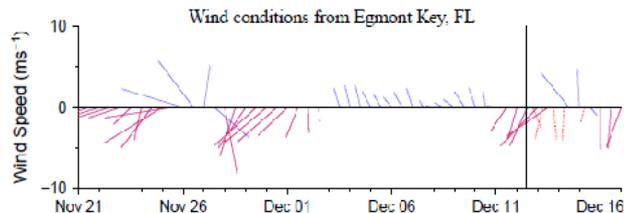
To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit at: <http://tidesandcurrents.noaa.gov/hab/bulletins.html>

## Conditions Report

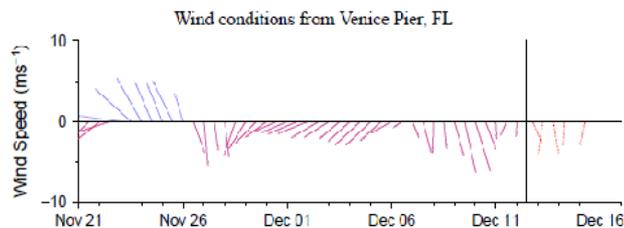
Does the image look good to you?

## Analysis

Blah blah blah



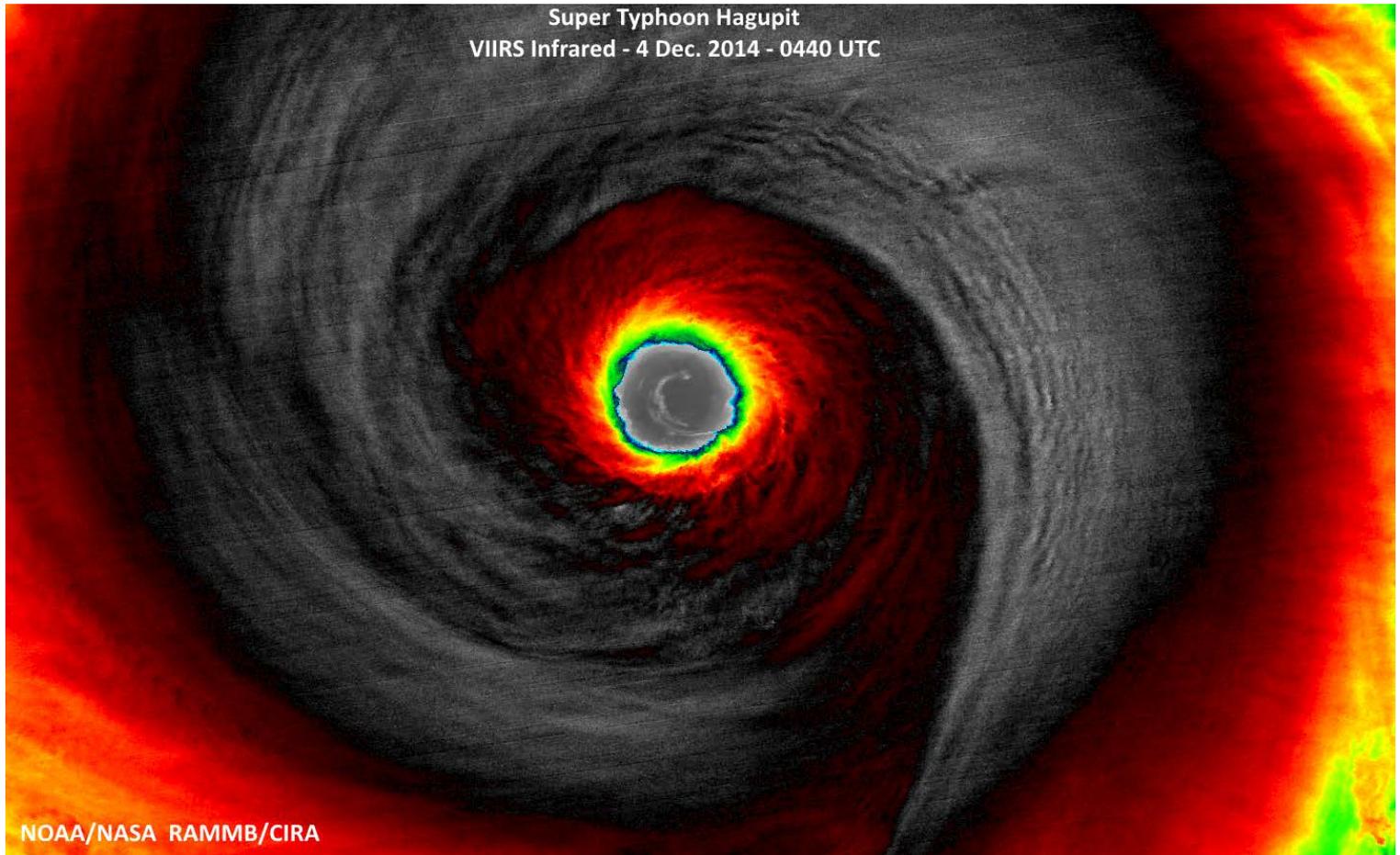
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).



## Wind Analysis

Test for VIIRS products

# Super Typhoon Hagupit



Zooming in further, displayed is the infrared from the same VIIRS overpass. The eye is clear down to the ocean surface and both the eye and eyewall display highly symmetric features.