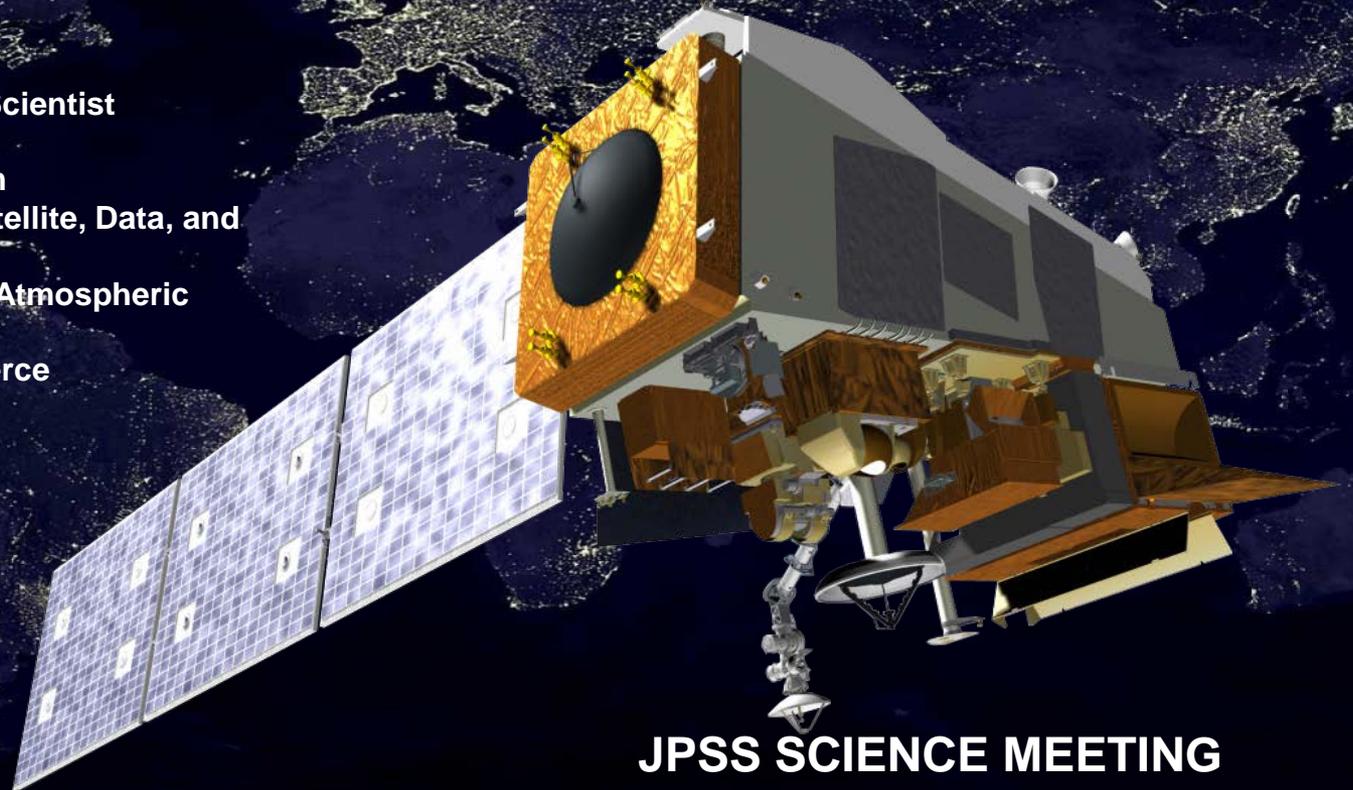


Joint Polar Satellite System (JPSS)

Soundings and Applications

Mitch Goldberg, Program Scientist

Joint Polar Satellite System
National Environmental Satellite, Data, and
Information Service
U.S. National Oceanic and Atmospheric
Administration
U.S. Department of Commerce

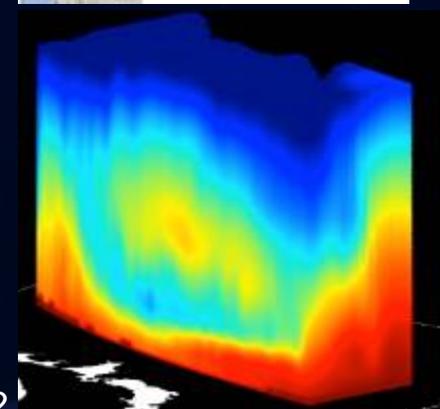
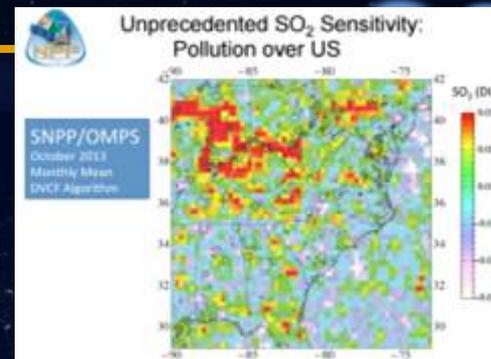
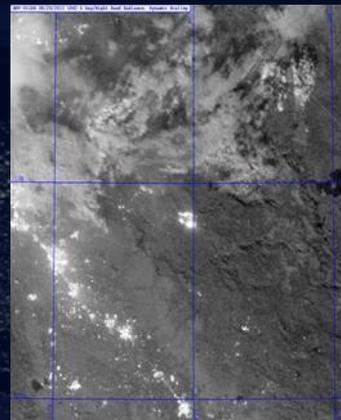
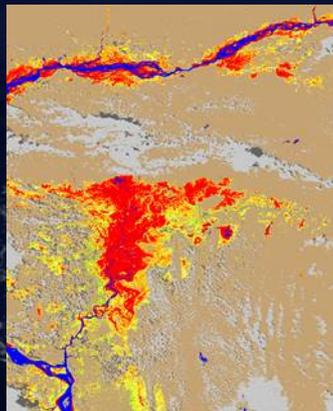


JPSS SCIENCE MEETING
August 2016

www.jpss.noaa.gov



From Photons to Applications to Decisions



Decisions

Warnings

Impact Assessments

Specialty Forecasts – e.g.,
floods

Weather Forecasts e.g., 3-5 days

Baseline of Robust and Accurate
Observations

Addressing Needs Across NOAA

WEATHER READY NATION

1. Aviation Weather and Volcanic Ash
2. Fire Weather
3. Hydrology and Water Resources
4. Marine Weather and Coastal Events
5. Hurricane/Tropical Storms
6. Routine Weather
7. Severe Weather
8. Space Weather
9. Tsunami
10. Winter Weather
11. Environmental Modeling Prediction

National Weather Service

HEALTHY OCEANS

1. Ecosystem Monitoring, Assessment and Forecast
2. Fisheries Monitoring, Assessment and Forecast
3. Habitat Monitoring and Assessment
4. Protected Species Monitoring

National Marine Fisheries Service

RESILIENT COASTS

1. Coastal Water Quality
2. Marine Transportation
3. Planning and Management
4. Resilience to Coastal Hazards and Climate Change

National Ocean Service

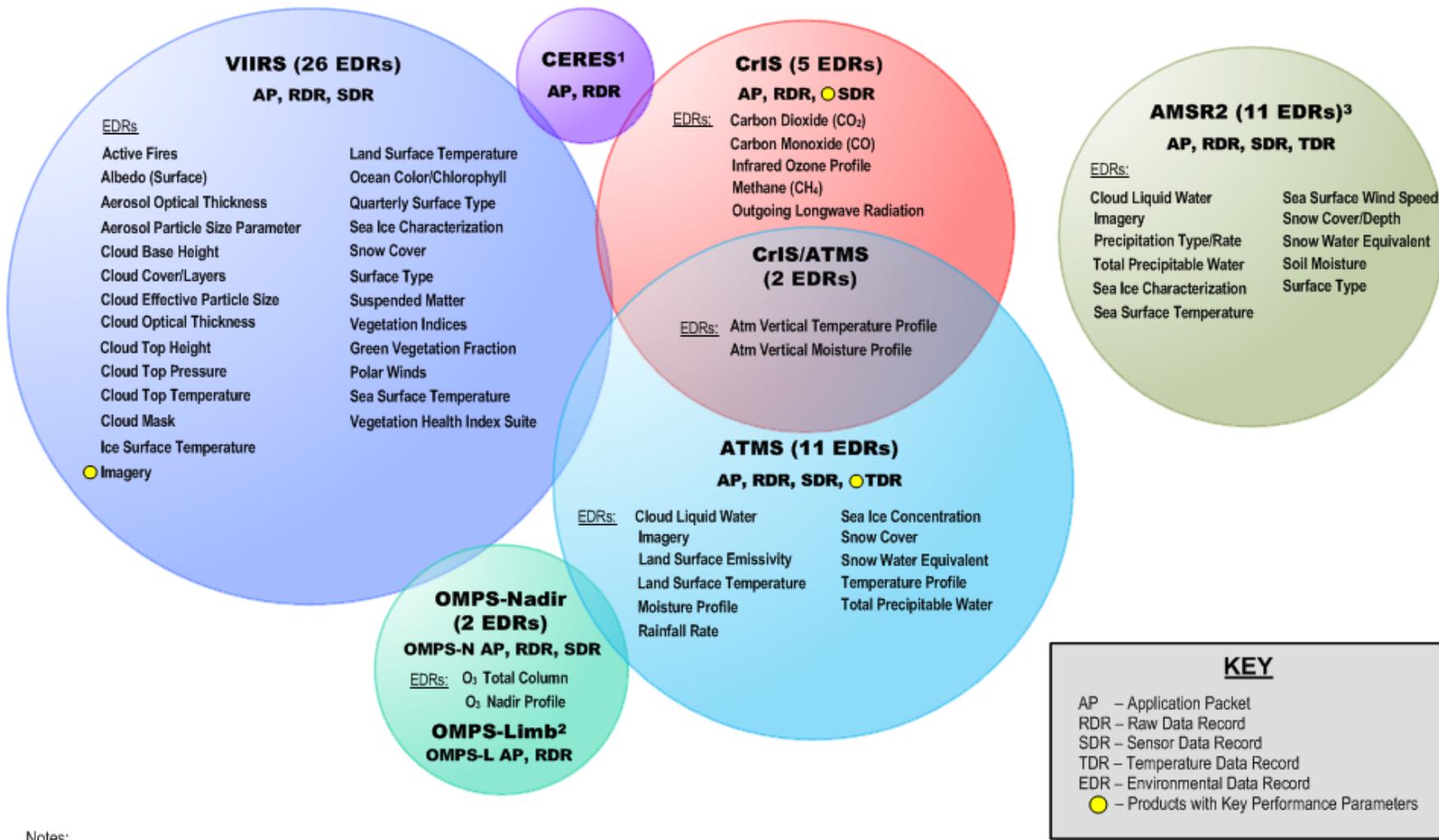
CLIMATE

1. Assessments of Climate Changes and Its Impacts
2. Climate Mitigation and Adaptation Strategies
3. Climate Science and Improved Understanding
4. Climate Prediction and Projections

Office of Oceanic and Atmospheric Research

JPSS Program Data Products

JPSS Level 1 Requirements Document, v1.8



Notes:

¹AP and RDR for the JPSS-2 Mission are contingent on NASA manifest of the Radiation Budget Instrument (RBI)

²Not applicable to JPSS-1; AP and RDR contingent on NASA manifest of OMPS-Limb on the JPSS-2 Mission

³All products dependent on the Global Change Observation Mission (GCOM) provided by the Japan Aerospace Exploration Agency

The JPSS Program includes Ground System Support for the Metop, DMSP, and GCOM missions

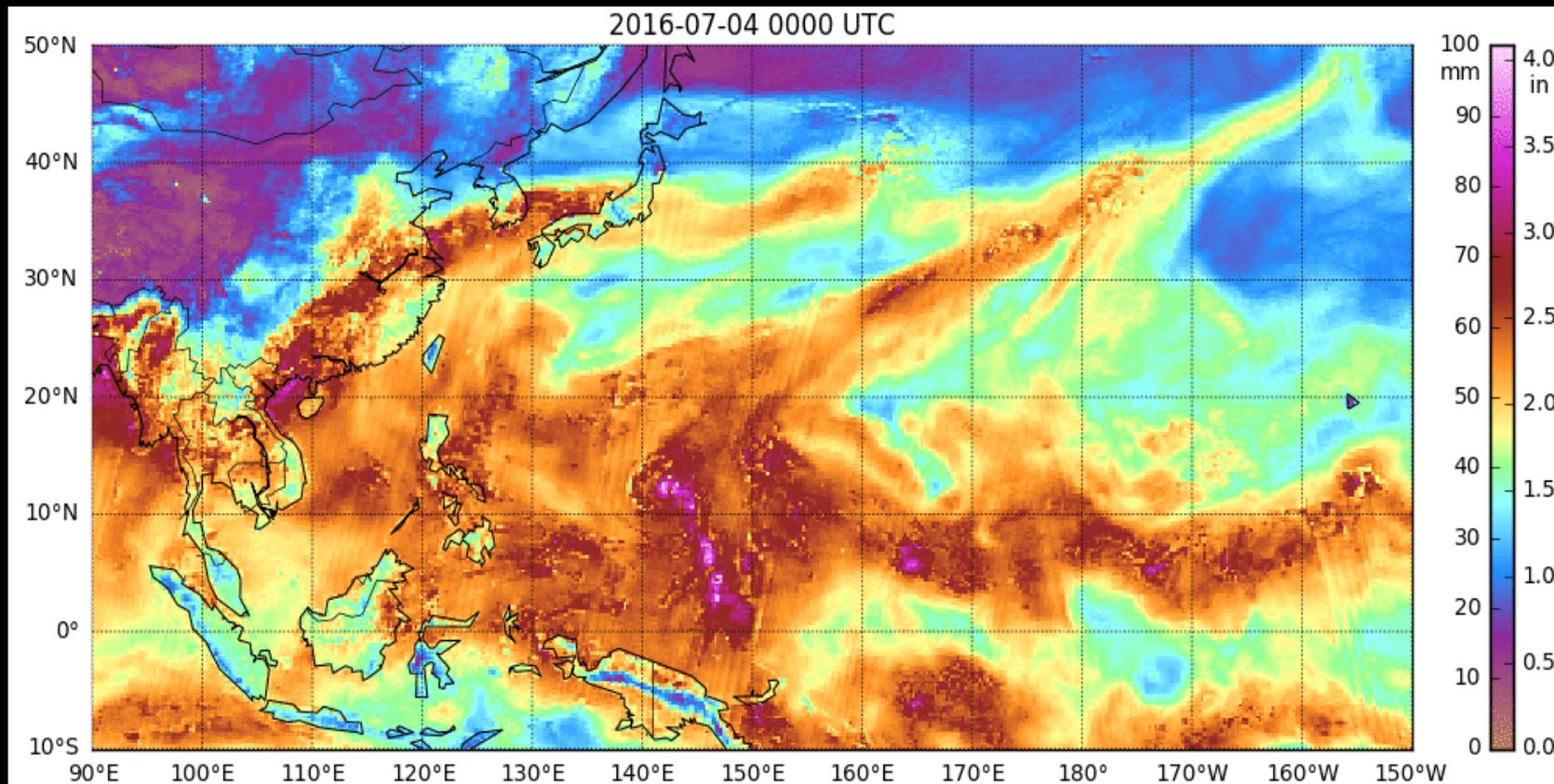
April 3, 2015

This chart is controlled by JPSS Program Systems Engineering

JPSS-P
Rev C.1



Temporal merging of MIRS TPW from 5 microwave sounders including ATMS





Words of wisdom



Cal/Val and periodic assessments of performance, and understanding issues and addressing them continues to be important.

End of the day, it's the applications. But the applications will depend on the performance. Think about the applications, talk to the users, and talk to Program Science – where we can verify the priority and help with the coordination.