

Using JPSS Products for Earth System Data Assimilation
(JPSS–CPO Technical Interchange Meeting 2)

Jan 30 2017, 9:00 AM – 12:30 PM EST
NCWCP Room 2554-2555

Call in: 866-631-7603, passcode: 6256206

WebEx: <https://star-nesdis-noaa.webex.com/star-nesdis-noaa/onstage/g.php?MTID=e62d8e9ab5f635162e6211f089edb84b0>

Event number: 992 519 170

Event password: STAR

Meeting Background and Purpose

NOAA/NESDIS/JPSS (Joint Polar Satellite System) and NOAA/OAR/CPO (Climate Program Office) had a kick-off JPSS-CPO meeting on September 12, 2016. The goal of the meeting was to enhance future partnership and collaborations on applications of JPSS products for climate applications. Several common interest areas for JPSS–CPO collaborations were identified in the kick-off meeting. Both JPSS and CPO programs (Arctic, MAPP, AC4) expressed interest in follow-on Technical Interchange Meetings (TIMs) to:

- Communicate info about JPSS products (e.g., data variables, length, resolution, quality)
- Communicate info about corresponding CPO programs
- Understand users' needs - for this meeting, to understand the needs for data assimilation and earth system modeling for research and operational prediction
- Learn the current state of services/applications, what improvements are still needed, and how satellite data can help
- Explore potential applications and products
- Discuss collaboration mechanisms and costs

AGENDA

Part 1: Overview of programs, operational and research needs

- 9:00 Mitch Goldberg (JPSS Program Scientist): JPSS Overview (10 min)
- 9:10 Lihang Zhou (JPSS STAR Program Manager): JSTAR Overview (10 min)
- 9:20 Mike Farrar (EMC Director): NCEP Strategic Plans for Earth System Modeling and Data Assimilation (20 min)
- 9:40 Heather Archambault (CPO MAPP Program Manager): MAPP Program Overview (10 min)
- 9:50 David Legler (CPO OOMD Chief): CPO OOMD Overview (10 min)
- 10:00 Xiasong Yang (GFDL - via telecon): The roles of atmosphere and land initial conditions in predicting the western United States precipitation during 2015/16 winter (15 min)

10:15 Mitch Bushuk (GFDL - via telecon): Arctic sea ice prediction in the GFDL seasonal forecast system (15 min)

10:30 Break (10 min)

Part 2: Thematic discussions

10:40 **Theme 1. Advancing ocean data assimilation** (inclusive of sea-level, salinity, and carbon/color data)

- o JPSS Ocean Products (5 min) (Paul DiGiacomo)
- o Discussion (20 min)

11:05 **Theme 2. Advancing land-surface data assimilation for drought and other applications**

- o JPSS Land Products (5 min) (Ivan Csiszar)
- o JPSS Hydrology Products (5 min) (Ralph Ferraro)
- o Discussion (20 min)

11:35 **Theme 3. Advancing data assimilation for sea ice and other Arctic needs**

- o JPSS Cryosphere (Snow and Ice) Products (5 min) (Jeff Key)
- o Discussion (20 min)

12:00 **Theme 4. Data assimilation for air quality**

- o JPSS Atmospheric Products/Reprocessed Data (5 min) (Fuzhong Weng)
- o JPSS Aerosol Products (5 min) (Shobha Kondragunta)
- o Discussion (20 min)

12:30 Adjourn

Participants

- STAR JPSS Product Leads - Land: Ivan Csiszar (Fire), Marco Vargas (Vegetation Index, Vegetation Fraction), Bob Yu (LST/LSA) , Felix Kogan (Vegetation Health/Drought), Jerry Zhan (Surface Type, Soil Moisture, Flood); Hydrology: Ralph Ferraro/Huan Meng (Hydrology, Precip, Snowfall); Ocean: Paul DiGiacomo; Cryosphere: Jeff Key; Atmosphere: Fuzhong Weng; Aerosol: Shobha Kondragunta; Lihang Zhou
- JPSS Program/AMP: Mitch Goldberg, Arron Layns, Sreela Nandi
- CPO: Annarita Mariotti, Dan Barrie, Heather Archambault (MAPP) and Jin Huang, Monika Kopacz and Ken Mooney (AC4), Sandy Starkweather (Arctic Research Program of OOM), David Legler (OOM director), Jim Todd (OOM Program Manager)
- NWS:
 - EMC: Mike Farrar, Mike Ek, Sarah Lu
 - CPC: Craig Long
 - National Water Center: Brian Cosgrove
- GFDL: Mitch Bushuk (Mitchell.Bushuk@noaa.gov), Xiasong Yang (Xiasong.Yang@noaa.gov)
- JCSDA: Thomas Auligne, Jim Yoe