

## FOURTH & FINAL CIRCULAR

# THE 12TH JCSDA TECHNICAL REVIEW MEETING & SCIENCE WORKSHOP ON SATELLITE DATA ASSIMILATION

May 21-23, 2014

*will be held at the*

## **NOAA Center for Weather and Climate Prediction (NCWCP)**

5830 University Research Court  
College Park, Maryland 20740

*(Please note that although the conference center is located outside the secure zone and no building pass is required, photo ID may be required.)*

### **For further information about the meeting:**

<http://www.jcsda.noaa.gov/>

### **For Dining and accommodation options in College Park:**

<http://shopcollegepark.org>

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### **For Remote Participation**

#### **Teleconference number:**

**1-866-715-2479 (US)**

**1-517-345-5260 (Int'l)**

**Participant Code: 9457557**

**WebEx:** <https://star-nesdis-noaa.webex.com/star-nesdis-noaa>

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### **Introduction:**

The mission of the U.S. Joint Center for Satellite Data Assimilation (JCSDA) is to accelerate and improve the quantitative use of research and operational satellite data in weather, ocean, climate, and environmental analysis and prediction systems. To achieve this mission, the specific objectives of the JCSDA are:

- Optimize the utilization of current and future satellite data in environmental analysis and prediction (numerical weather, climate, oceanographic, and, in the future, space weather);
- Effect the transition of maturing research and development results into the operational environments;
- Reduce the average time required to implement the use of satellite data in operations following the launch of a new instrument;
- Assess the impacts of data from advanced satellite sensors and relevant in situ observing systems on operational analysis and prediction;
- Contribute to the planning of future observing systems and develop tools for effective integration of future satellite observations into environmental models, including performing Observing System Simulation Experiments;
- Adapt, implement, and develop the scientific algorithms needed to assimilate data from the advanced satellite sensors;
- Advance common numerical weather prediction models and data assimilation infrastructure;
- Develop and implement a community radiative transfer model for satellite data assimilation.

The following six areas have been identified by the JCSDA as the scientific priorities:

- Radiative Transfer Modeling (CRTM)
- Preparation for assimilation of data from new instruments
- Clouds and precipitation
- Assimilation of land surface observations
- Assimilation of ocean surface observations
- Atmospheric composition; chemistry and aerosol

### **Purpose of the Meeting:**

The JCSDA supports scientific development work in multiple areas via internal, directed, and external research projects with the purpose of accelerating and optimizing the assimilation of satellite data. External research is funded via grants and contracts awarded through a competitive process open to the broader scientific community. In addition, the JCSDA partners conduct their own internal projects, some of which are directly related to the JCSDA priorities. These projects are labeled internal or in-kind contributions to JCSDA. It is essential that all these efforts be complementary and coordinated. The JCSDA technical review meeting and science workshop aims at facilitating this coordination. At the meeting, JCSDA Principal Investigators of internal, directed and external projects and affiliated scientists are expected to report on progress and participate in discussions about future plans of the Joint Center.

The purpose of the annual JCSDA technical review meeting and science workshop is therefore to review the ongoing and planned scientific development sponsored by the NASA-NOAA-DOD Joint Center for Satellite Data Assimilation, and to coordinate these efforts, both internally and with the outside research community involved in the satellite data assimilation (especially those directly funded by the JCSDA through FFO and/or Roses programs). Two full and one half days will be devoted to the meeting with plenty of time for discussions, interactions, scientific exchanges and formal presentations, both among scientists from all JCSDA partners and with JCSDA managers. Formal recommendations from working groups discussions that take place during the meeting, are reviewed by the JCSDA management on an annual basis, and serve as one of the inputs when developing technical directions of the JCSDA future activities.

### **Organization of the Meeting:**

The JCSDA technical review meeting and science Workshop on satellite data assimilation will include both oral presentations (in a plenary session) and posters. No parallel sessions will be held. In order to allow for open discussion, plenty of time will be available to presenters to interact with the audience. Adequate visibility will be provided to contributions from all scientific priority areas as well as emerging ones. Externally funded scientists are expected to attend and should give a progress report and indicate what they plan to do over the next year. An oral presentation is expected from the externally funded scientists. Break-out sessions will be reserved for group discussions of the plans and progress for the science priority areas and how ongoing efforts can be better coordinated. The discussions are expected to lead to ideas for improved collaboration and development of multiuse software; these ideas will be presented during the final plenary session.

There will also be a dedicated poster session. Note that posters will be mounted on their panels the first morning of the meeting and will remain on display until the end of the meeting. This arrangement will allow scientists to discuss the content of the posters not only during the poster session but also during coffee breaks and lunch breaks.

### **Fee, Registration and deadlines:**

Participation in the meeting is free of charge. *Attendees may order food for breaks and lunches via [The Café](#) on the registration page.*

If you have any specific questions regarding the workshop, please contact [Rene.Brown@noaa.gov](mailto:Rene.Brown@noaa.gov) with CC to [James.G.Yoe@noaa.gov](mailto:James.G.Yoe@noaa.gov) and [Sid.boukabara@noaa.gov](mailto:Sid.boukabara@noaa.gov) .

**Location:**

The 12<sup>th</sup> JCSDA Technical Review Meeting & Science Workshop on Satellite Data Assimilation will be hosted in the NCWCP building in College Park, Maryland. This location offers convenient access to the *Metro* public transit system of the Washington, DC area (College Park/Univ. of Md Metro station, and the Metro bus). It is also within walking distance of downtown College Park, MD.

**Presentation uploading:**

Presenters (both oral and poster) are encouraged to submit their presentations ahead of time, by sending an email to [Erin.Jones@noaa.gov](mailto:Erin.Jones@noaa.gov), CC [Rene.Brown@noaa.gov](mailto:Rene.Brown@noaa.gov). The preferred format is pdf or PPT.

**Parking:**

For parking, participants are invited to park in the NCWCP parking. Note that a Government-issued ID may be required.

**Addition Useful Information for presenters:****Posters**

Please provide your poster in portrait format. You can mount your poster with tape or pushpins.

- Place the title at the top center of the poster.
- Use 72 point letters.
- Avoid hand drawn materials.
- Keep it simple.
- Do not post the pages of your paper.
- Make sure it has a logical flow.
- Use color, graphics, charts, and photos.
- Key points should be in large type.
- Do not try to tell the entire story on the panel.
- Save some key points for the one-on-one discussion.
- Check the program for the set up and presentation time for your session.

**Oral Presentations**

Please refer to the program for your session date and time. **(Registration is closed)**

**Science & Program Committee (JCSDA Executive Team):**

S.-A. Boukabara,	NOAA/NESDIS
J. Yoe,	NOAA/NWS
R. Gelaro,	NASA/GSFC
J. Zapotocny,	Air Force, AFWA
S. Benjamin,	NOAA/OAR
W. Lapenta,	NOAA/NWS

**Local Organizing Committee:**

R. Brown  
A. Carrion  
K. Garrett  
E. Jones