

Final Agenda

SUOMI NPP SDR Science and Validated Product Maturity Review



December 18-20, 2013

NOAA Center for Weather and Climate Prediction Auditorium

5830 University Research Court, College Park, MD 20740

Purpose and Goals:

The purposes of this review are to discuss the science results and progress of Suomi NPP cal/val tasks, review SNPP products in meeting the requirements of the SNPP validated maturity level, JPSS L1RD, and demonstrate product impacts on the user community. Cal/Val team members will present progress on their specific tasks and users will offer their independent assessments of SDR product quality. The expected outcome is a recommendation from the JPSS Product Review Panel (JPSRP) and SDR leads to the AERB that the current products are at the validated level, or scheduled changes already approved by the AERB will result in a validated quality SDR data product. If the data product is determined to not yet be at the validated level, this meeting will identify the path forward to achieve this level.

Through interaction with the data product operational users, the SDR chair and team will collect feedback on recommended SDR product improvements. The discussion will provide an overview of the overall performance of CrIS, ATMS, VIIRS and OMPS instruments and algorithms as known at this time.

Outline:

- Overview the progress of SNPP SDR cal/val tasks and the instrument characterization
- Acquire user, including EDR team, feedbacks on product quality
- Provide planned improvements of SDR products
- Identify necessary actions for achieving validated status, if necessary

Review Panel: Mitch Goldberg (Chair), Fuzhong Weng, Jim Gleason, Eric Gottshall, Lihang Zhou, David Benner, Jim Yoe, Tom Schott, Rick Stumpf, Mike Ford, Jeff Privette, Gary Wick, Mike Johnson

Review Materials Required from JPSS SDR Teams

1. ATMS, CrIS, VIIRS and OMPS SDR team leads need to submit to JPSS SDR Science Chair the following materials prior to the review:

- Algorithm Theoretical Basis Document (ATBD)
- SDR data user manuals (Optional)
- Operational algorithm document, OAD (Optional)
- Team member presentations

2. ATMS, CrIS, VIIRS and OMPS SDR team lead presentations should cover:

- List peer-reviewed publications that justify products
- Criteria for validated maturity status
- SDR specifications (e.g., NEDT, NEDN) consistent with JPSS L1RD
- On-orbit performance results (e.g., NEDT/NEDN, Stability)
- Data quality, including long-term performance trending metrics from ICVS
- Status of completion of all cal/val tasks from OPSCON
- Remaining cal/val tasks from provisional reviews
- Challenges and remaining issues (e.g. critical DRs, required waivers)
- Path Forward

3. Team member individual presentations:

- Highlights of cal/val task results assigned to individual investigators
- Innovative cal/val science and impacts
- Challenges and remaining issues
- Path forward (include how lessons learned from NPP are integrated into J1 planned activities)

Agenda

Day 1 – Wednesday, December 18

Session 1: Welcome and Opening Remarks

8:30 – 8:40	Welcome	Al Powell, STAR Director
8:40 – 8:50	Opening Remarks	Mary Kicza, NESDIS AA
8:50 – 9:00	Opening Remarks	Ajay Mehta, NJO Deputy Director
9:00 – 9:10	Opening Remarks	Eric Gottshall, DPA Lead
9:10 – 9:20	Introduce Review Panel	Mitch Goldberg, JPSS Chief Scientist
9:20 – 9:30	Highlights on SDR Products	Fuzhong Weng, JPSS SDR Lead

Break for Group Photo

Session 2: ATMS SDR Product Review

Chairs: Ninghai Sun and Vince Leslie

9:40 – 10:00	ATMS Cal/Val Task overview	Fuzhong Weng, STAR
10:00 – 10:20	ATMS TDR to SDR algorithm	Vince Leslie, MIT/LL
10:20 – 10:40	ATMS/AMSU Cross correction	Xiaolei Zou, FSU
10:40 – 11:00	ATMS Striping Analysis	Degui Gu, NGAS

Break

Session 2: ATMS SDR Product Review (Continued)

Chairs: Ninghai Sun and Vince Leslie

11:00 – 11:20	ATMS Lunar Correction	Tiger Yang, UMD
11:20 – 11:30	ATMS SDR Quality Assurance	Ninghai Sun, STAR
11:30 – 11:50	Assimilation of ATMS Data at NCEP	Andrew Collard, NCEP
11:50 – 12:10	Assimilation of ATMS Data at ECMWF	Niels Bormann, ECMWF
12:10 – 12:20	Assimilation of ATMS data at NRATMS	Ben Ruston, NRL
12:20 – 12:30	ATMS Scan Profile study	Otto Bruegman, NASA/JPSS

Lunch

Session 3: CRIS SDR Product Review

Chairs: Yong Han and Hank Revercomb

1:40 – 2:00	CrIS Cal/Val Task Overview	Yong Han, STAR
2:00 – 2:20	CrIS Radiometric Calibration: Uncertainty Estimates and Evaluations	Dave Tobin, UW
2:20 – 2:40	Noise Performance of the CrIS Instrument On-orbit	Vladimir Zavyalov, SDL
2:40 – 3:00	CrIS Spectral Calibration and Trending	Larrabee Strow, UMBC
3:00 – 3:20	CrIS SDR Geolocation Performance	Likun Wang, STAR

Break

Session 3: CRIS SDR Product Review (Continued)

Chairs: Yong Han and Hank Revercomb

3:40 – 4:00	Source and Effect of Ripple in CrIS Measurements	Dan Mooney, MIT/LL
4:00 – 4:20	CrIS SDR Quality Assurance	Xin Jin, STAR/ERT
4:20 – 4:40	Assimilation of CrIS Data at Metoffice	Bill Bell, UK Met Office
4:40 – 5:00	Assimilation of CrIS Data at NCEP	Andrew Collard, NCEP/EMC
5:00 – 5:20	Assimilation of CrIS Data at ECMWF	Reima Eresmaa, ECMWF
5:20 – 5:40	Government Caucus/Discussion	Review Panel Only

Adjourn

Day 2 – Thursday, December 19

Session 4: VIIRS SDR Product Review

Chairs: Changyong Cao and Frank DeLuccia

8:30 – 8:50	VIIRS Cal/Val Task Overview	Changyong Cao, STAR
8:50 – 9:10	VIIRS Reflective Solar Band (RSB) Performance & Uncertainty	Frank DeLuccia, Aerospace Corp
9:10 – 9:30	VIIRS RSB Validation: Autocal and intercomparison	Slawomir Blonski, STAR/CICS

9:30 – 9:50	VIIRS Thermal Emissive Bands performance and uncertainty estimates	Jack Xiong, NASA
9:50 – 10:10	VIIRS TEB Validation Update	Chris Moeller, U. Wisconsin
10:10 – 10:30	VIIRS Geolocation Performance Update	Robert Wolfe, NASA

Break

Session 4: VIIRS SDR Product Review (Continued)

Chairs: Changyong Cao and Frank DeLuccia

10:45 – 11:05	VIIRS SDR Day Night Band Performance and Uncertainty Estimates	Lushalan Liao, NGAS
11:05 – 11:25	VIIRS SDR Quality Assurance	Frank Padula, STAR
11:25 – 11:45	VIIRS in NWS/Alaska	Eric Stevens, University of Alaska
11:45 – 12:05	VIIRS for Land EDR	Ivan Csiszar, STAR
12:05 – 12:25	VIIRS for SST EDR	Alex Ignatov, STAR
12:25 – 12:45	VIIRS for Ocean Color EDR	Menghua Wang, STAR

Lunch

Session 5: OMPS EV SDR Product Review

Chairs: Fred Wu and Glen Jaross

2:00 – 2:20	OMPS Cal/Val Task Overview	Fred Wu, STAR
2:20 – 2:40	Instrument Performance	Chunhui Pan, STAR
2:40 – 3:00	Stray Light Correction	Glen Jaross, NASA
3:00 – 3:20	Wavelength Registration	Larry Flynn, STAR

Break

3:40 – 4:00	Cross Calibration	Fred Wu, STAR
4:00 – 4:20	OMPS Product Applications	Craig Long, NOAA/CPC
4:20 – 4:40	New SO2 Product from OMPS	Kai Yang, GSFC/NASA
4:40 – 5:00	Total Column Ozone EDR/Nadir Profile IP	Larry Flynn, STAR
5:00 – TBD	Government Caucus/discussion	Review Panel only

Adjourn

Day 3 – Friday, December 20

Session 6: SNPP and JPSS Overarching Issues

Chairs: Lihang Zhou and Eric Gottshall

8:30 – 8:50	STAR ICVS LTM	Ninghai Sun, STAR
8:50 – 9:10	STAR ICVS Demonstration	Lori Brown, STAR
9:10 – 9:30	Algorithm Transition Process	Walter Wolf, STAR
9:30 – 9:50	IDPS Implementation Process	Wael Ibrahim, Raytheon
9:50 – 10:10	STAR EDR LTM Plan	Lihang Zhou, STAR
10:10 – 10:30	NOAA Outreach for JPSS	Dan Pisut, NOAA

Break from 10:30 to 11:30 am for Meeting Participants

Session 7: Panel Review and Discussion in Conference Rooms

Chairs: Mitch Goldberg and Mike Johnson

10:45 –11:30	Panel Reviews	Panel Members Only
11:30– 12:00	Recommendations	All

Adjourn

Logistical Information

Remote Access

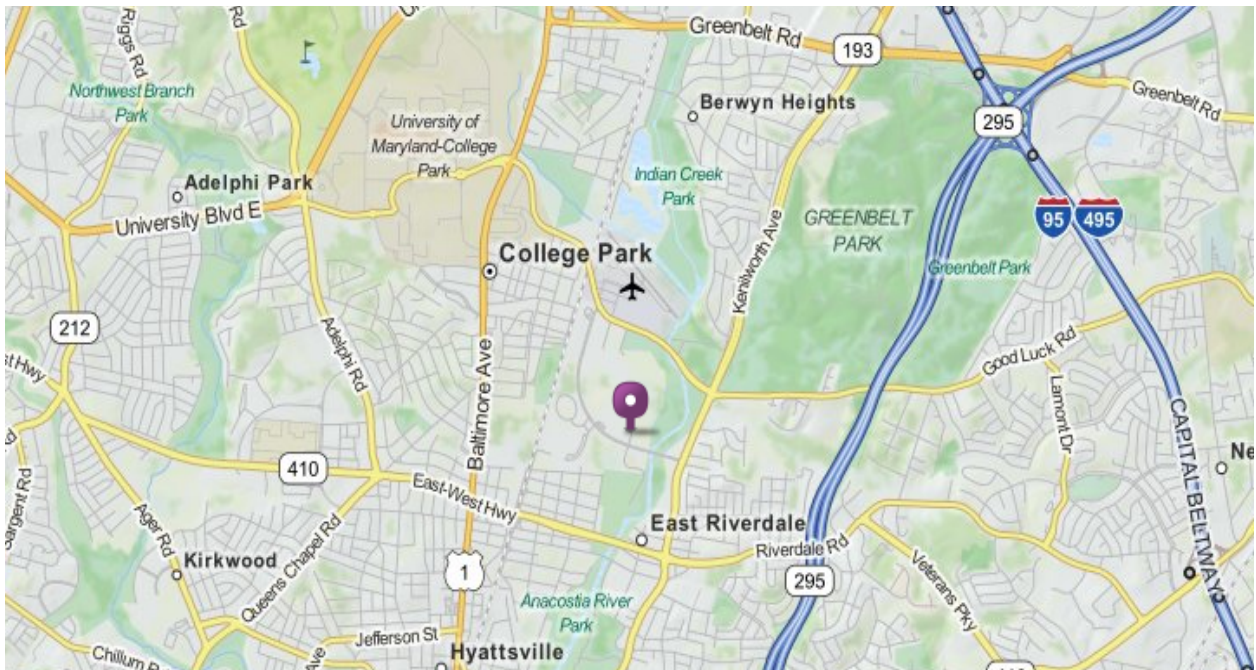
Teleconference number: 1-866-915-8960 Participant Code: 1938801
WebEx: <https://star-nesdis-noaa.webex.com> Password: ATMSsdr2013
STAR WEB SITE URL (REGISTRATION, ETC.):

Breaks

We have arranged with the NCWCP cafeteria (Kloud Café) to have a morning and afternoon break with coffee, tea, water and donuts (morning) or cookies (afternoon). However, you need to sign up at <https://kloudcafe.wufoo.com/forms/suomi-npp-sdr-science-review/> for these morning and afternoon breaks (you can order lunch too). Contact Danette Warren (Danette.Warren@noaa.gov) if you need more information.

Map and Directions

NOAA Center for Weather and Climate Prediction (NCWCP) Auditorium
5830 University Research Court, College Park, MD 20740



Driving Directions

From Maryland: Take I-495 East to exit 23A (Kenilworth Ave/MD-210 S). Stay on 210 South until you make a right onto River Rd. Take the 1st right onto University Research Ct. The NCWCP will be the building on the left.

From Virginia: Merge onto I-495 OUTERLOOP/Capital Beltway/ toward Alexandria. Take the I-295 N/National Harbor exit, EXIT 2A-B, toward Washington. Keep right to take DC-295 N toward US-50 E


(crossing into Maryland). Take the exit toward MD-410/Hyattsville/New Carrollton. Take left onto Riverdale Rd (Riverdale Rd becomes East-West Hwy/MD-410 W). Turn left onto River Rd. Take the 1st right onto University Research Ct. The NCWCP will be the building on the left.

From Washington DC: Take I-295 North to MD-410/Hyattsville/New Carrollton. Take left onto Riverdale Rd (Riverdale Rd becomes East-West Hwy/MD-410 W). Turn left onto River Rd. Take the 1st right onto University Research Ct. The NCWCP will be the building on the left.

The NCWCP is also accessible by taking the Green or Yellow Metrorail Line to the College Park/University of Maryland station. It is a 20-minute walk (to the east down River Road) from the station to the NCWCP.

Hotel Information

The following hotels are located close to the NCWCP.

	<p>Marriott Greenbelt</p> <p>6400 Ivy Ln, Greenbelt, Maryland 20770 Front Desk/Reservations: 1-800-676-5975 / 1-301-441-3700</p> <p>http://www.marriott.com/hotels/travel/wasgb-greenbelt-marriott/</p>
	<p>Hilton Garden Inn Washington DC/Greenbelt</p> <p>7810 Walker Dr, Greenbelt, Maryland 20770 Front Desk/Reservations: 1-301-474-7400</p> <p>http://hiltongardeninn3.hilton.com/en/hotels/maryland/hilton-garden-inn-washington-dc-greenbelt-DCAGBGI/index.html</p>