SUOMI NPP EDR Product Maturity Readiness Review for

VIIRS Cloud Mask, Imagery, Ice Surface
Temperature, Snow Mask, and Soundings
(Validated Stage 1);
Cloud Properties, Sea Surface Temperature,
Ocean Color, Surface Type (Provisional)
January 7-8 2014

NCWCP, College Park, MD

http://www.star.nesdis.noaa.gov/star/meeting_SNPPEDR2014.php

Dial-in Number: 1-866-564-4509; Passcode: 9632506

WebEx: https://star-nesdis-noaa.webex.com

Day 1 - Meeting Number: 730 972 731; Password: Password: EDRVal1!

Day 2 - Meeting Number: 736 236 811; Password: EDRVal1!

Scope of the meeting

- To provide a forum for discussion on the <u>readiness</u> of various EDR products to <u>achieve the next maturity</u> <u>level</u> according to the SNPP maturity schedule.
- Follows and builds on the outcome of the <u>SNPP Sensor</u> <u>Data Record (SDR) Science and Products Review</u> held on December 18-20, 2013
- The expected outcome is a <u>recommendation from the EDR review panel and EDR leads to the Algorithm</u>
 <u>Engineering Review Board (AERB)</u> that the current products are at the given maturity level, or scheduled changes already approved by the AERB will result in a provisional quality EDR data products.
- If the data product is determined to not yet be at the given maturity level, this meeting will identify the **path forward to achieve this level**.

Maturity criteria: EDR Provisional

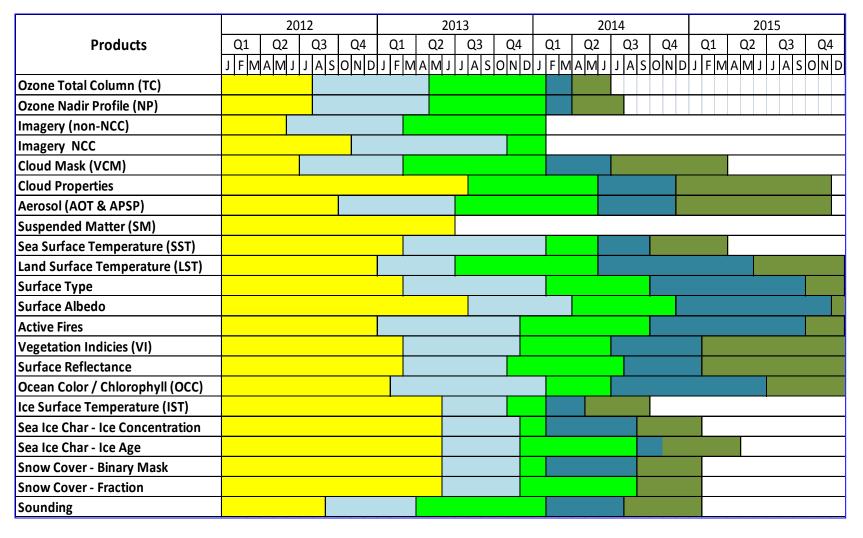
Provisional Definition	Artifacts (Deliverables)	
Product quality may not be optimal	None	
Product accuracy is determined for a broader (but still limited) set of conditions. No requirement to demonstrate compliance with specifications.	None	
Incremental product improvements are still occurring	Narrative, listing and discussing known errors. All DRs are identified and prioritized (1-5). Provisional readiness will address priorities 1-2. Pathway towards algorithm improvements to meet specifications is demonstrated.	
Version control is in effect	Description of the development environment, algorithm version (IDPS build number), and LUTs/PCTs versions used to generate the product validation materials. ATBDs are accurate, up-to-date and consistent with the product running.	
General research community is encouraged to participate	ADP STAR will request feedback from appropriate users	
in the QA and validation of the product, but need to be	for the product. The notification letter will include a	
aware that product validation and QA are ongoing	Provisional Maturity disclaimer. DPA will send request	
	to Project Science to post Provisional Maturity	
	disclaimer on CLASS. DPA will submit readme document to CLASS.	
Users are urged to consult the EDR product status	Warning of potential non-reproducibility of results due to	
document prior to use of the data in publications	continuing calibration and code changes. Identify known	
	deficiencies regarding product quality.	
Ready for operational evaluation	Key NOAA and non-NOAA end users are identified and	
	feedback requested.	

Maturity criteria: EDR Validated

Validated Definition	Artifacts (Deliverables)	
	All Applicable to Stages 1-4	
Validated Stage 1: Using a limited set of	The list of required artifacts supporting each stage of Validated Maturity	
samples, the algorithm output is shown to	are identical:	
meet the <u>threshold</u> performance attributes	Algorithm Assessment	
identified in the JPSS Level 1 Requirements	 Evaluation of algorithm performance to specification 	
Supplement with the exception of the S-NPP	requirements	
Performance Exclusions	 Evaluation of the effect of required algorithm inputs 	
Validated Stage 2: Using a moderate set of	o Error Budget	
samples, the algorithm output is shown to	 Quality Flag analysis/validation 	
meet the <u>threshold</u> performance attributes	o Input from key users	
identified in the JPSS Level 1 Requirements	Identification of the processing environment	
Supplement with the exception of the S-NPP	o IDPS Build Number and effectivity date	
Performance Exclusions	o Version of LUT(s) used	
Validated Stage 3: Using a large set of	o Version of PCT(s) used	
samples representing global conditions over	o Description of environment used to achieve particular stage of	
four seasons, the algorithm output is shown to	Validated	
meet the <u>threshold</u> performance attributes	Documentation	
identified in the JPSS Level 1 Requirements	Current or updated ATBD	
Supplement with the exception of the S-NPP	o Current or updated OAD (algorithm-related redline updates, if	
Performance Exclusions	applicable)	
Validated Stage 4: Using a large set of	o README file for CLASS	
samples representing global conditions over	o Product User's Guide (Recommended)	
four seasons, the algorithm output is shown to	User Precautions	
meet or exceed the <u>objective</u> performance	 Identification of known issues 	
attributes identified in the JPSS Level 1	o List of closed Discrepancy Reports between previous maturity	
Requirements Supplement with the		
exception of the S-NPP Performance	milestone and current maturity milestone.	
Exclusions	Assessment of outstanding Discrepancy Reports	

SNPP EDR Validation Schedule

http://www.star.nesdis.noaa.gov/jpss/Data.php



Agenda: January 7

Session 1	l: Open	ing
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8:30 – 8:45 Opening remarks and logistics Ivan Csiszar (STAR)

Session 2: VIIRS Cloud Mask Validated

8:45 – 10:00 VCM presentation Tom Kopp (Aerospace) / Andrew Heidinger (STAR)

Break

10:15 – 10:30 VCM Feedback: SST Alexander Ignatov (STAR)

10:30 – 10:45 VCM Feedback: Ocean Color Menghua Wang (STAR)

10:45 – 11:00 VCM Feedback: Aerosol Shobha Kondragunta / Istvan Laszlo (STAR)

11:00 – 11:15 VCM Evaluation: Land Eric Vermote (NASA)

11:15 – 11:30 VCM Evaluation: Cryosphere Jeff Key (STAR)

11:30 – 12:00 VCM discussion

Lunch

Session 3: Cloud Properties Provisional

1:00 – 2:00 Clouds presentation Andrew Heidinger (STAR)

2:00 – 2:15 Clouds User Feedback Jeff Cetola (AFWA)

2:15 – 2:45 Clouds Discussion

Break

Session 4: Imagery Validated

3:00 – 3:30 Imagery Presentation Don Hillger (STAR)

3:30 – 3:45 Imagery User Feedback Jeff Hawkins (NRL)

3:45 – 4:00 Imagery Discussion

Session 5: Surface Type Provisional

4:00 – 4:45 Surface Type Presentation Xiwu Zhan (STAR)

4:45 – 5:00 Surface Type User Feedback Mike Ek (NCEP)

5:00 – TBD Panel discussion as needed

Agenda: January 8

Session 6: Sea Surface Temperature Provisional

8:30 – 10:00 SST status and user readiness Alexander Ignatov (STAR)

10:00 – 10:15 SST Discussion

Break

Session 7: Ocean Color (OC) Provisional

10:30 – 12:00 OC status and user readiness Menghua Wang (STAR)

12:00 – 12:30 Ocean Color Discussion

Lunch

Session 8: Cryosphere Validated

1:30 – 2:30 IST /Snow Mask presentation Jeff Key (STAR)

2:30 – 2:45 Cryosphere discussion

Break

Session 9: Soundings Validated

3:00 – 4:00 Soundings Presentation Tony Reale (STAR)

4:00 – 4:15 Soundings User Evaluation Brian Gockel (NWS)

4:15 – 4:30 Soundings Discussion

4:30 – 5:00 Panel discussion

5:00 – 5:30 Panel report back

Review panel

- Mitch Goldberg (Chair)
- Jim Gleason
- Eric Gottschall
- Fuzhong Weng
- Jim Yoe
- Tom Schott
- Lihang Zhou
- Jeff Privette
- Mike Johnson
- Dave Benner

Participant feedback

- Use Request for Action (RFA) form
 - Electronic or hard copy
- Turn in ASAP after the session for the respective product
- E-mail forms to Ivan.Csiszar@noaa.gov with cc to Tom.Atkins@noaa.gov

Logistics

- Access to NCWPC only those with proper authorization
- Dial-in and webex information listed online
- Emergency follow the exit signs
- Restrooms near the exit from the conference center
- Lunch K-Kafe order / purchase or other arrangements on your own
- Coffee / refreshments outside. No food or drinks in the auditorium!
- Agenda updates e-mail(s) sent to registered participants and management
- Name tags please turn them in for re-use

Questions?

Review content: Ivan.Csiszar@noaa.gov

 Dial-in, webex, agenda etc.: Tom.Atkins@noaa.gov

Logistics (building access, food etc.):
 Danette.Warren@noaa.gov

MARK YOUR CALENDAR

STAR JPSS Annual Science
Conference
April 21-25 2014
NCWCP