Center for Satellite Applications and Research*

JPSS STAR Science Teams Annual Meeting: Objectives & Logistics

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JPSS STAR (JSTAR) Mission

- To develop, implement, and maintain science algorithms for the production of the Sensor Data Records (SDRs) and Environmental Data Records (EDRs) data products as well as their sustainment in the operational phase of the program, calibration, validation, long term monitoring, and product enhancements

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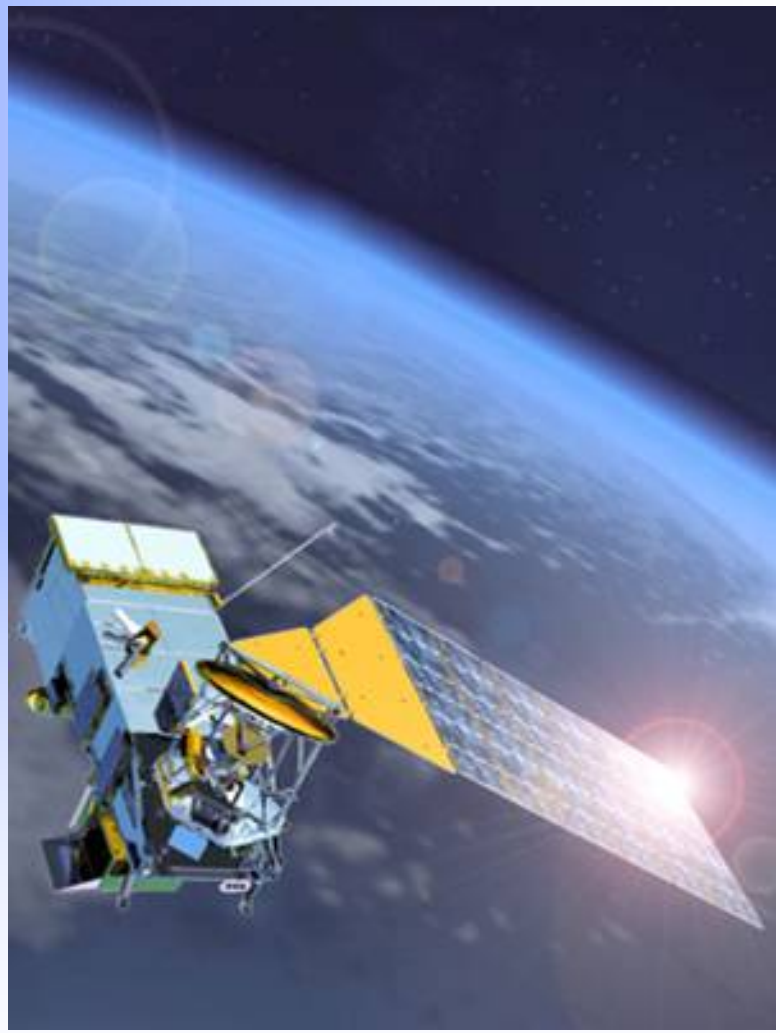
JSTAR Vision

- Develop consistent approaches for algorithm development and Cal Val
- Empower the user community with highly accurate products and associated error characteristics from the next generation of polar satellites, in a timely, cost effectively, and efficient manner



Meeting Objectives

- Review the progress of the JPSS STAR program over the past year and review objectives of the coming year.
- Present results/issues/science from the JPSS STAR science teams including: algorithm validation and maturity status, SNPP science results, plans for the coming year, and progress in preparing for JPSS-1.
- Hold individual meetings with the science teams and management to review the work plan, budget, and other management matters for the upcoming Fiscal Year.
- Hold user splinter meetings to develop plans for improved utilization of selected JPSS products.
- Inform the JPSS Program Office and NESDIS management on the status of the program

Science Team Assessment

- Overview
  - Brief Project Overview and Objectives
- SNPP Algorithms Evaluation:
  - Algorithm Description, Validation Approach and Datasets, Performance *vs.* Requirements, Quality Monitoring
  - Alternate Algorithms and Evaluation
  - Risks/Issues/Challenges, Recommendations
- Future Plans
  - Plan for JPSS-1 Algorithm Updates and Validation Strategies, Schedule and Milestones

Algorithm Maturity

DEFINITIONS	ARTIFACTS (DELIVERABLES)
1. Beta o Product is minimally validated, and may still contain significant identified and unidentified errors. o Information/data from validation efforts can be used to make initial qualitative or very limited quantitative assessments regarding product fitness-for-purpose. o Documentation of product performance and identified product performance anomalies, including recommended remediation strategies, exists.	**1. Beta** o Beta PowerPoint Presentation: o Performance Evaluation o Products Status and Error Matrix o Considerations/Know Risks o Summary of Findings and Recommendations o Readme Document for Data Users (goes to CLASS)
2. Provisional o Product performance has been demonstrated through analysis of a large, but still limited (i.e., not necessarily globally or seasonally representative) number of independent measurements obtained from selected locations, time periods, or field campaign efforts. o Product analyses are sufficient for qualitative, and limited quantitative, determination of product fitness-for-purpose. o Documentation of product performance, testing involving product fixes, identified product performance anomalies, including recommended remediation strategies, exists. o Product is recommended for operational use (user decision) and in scientific publications.	**2. Provisional** o Provisional PowerPoint Presentation o Performance Evaluation o Product status and accuracy assessment including error budget o Considerations/Know Risks (Closed DRs, and Assessment of any Open DRs) o Feedback from key users o Summary of Findings and Recommendations o Readme Document for Data Users (goes to CLASS) o ATBD o Users Manuals
3. Validated o Product performance has been demonstrated over a large and wide range of representative conditions (i.e., global, seasonal). o Comprehensive documentation of product performance exists that includes all known product anomalies and their recommended remediation strategies for a full range of retrieval conditions and severity level. o Product analyses are sufficient for full qualitative and quantitative determination of product fitness-for-purpose. o Product is ready for operational use based on documented validation findings and user feedback. o Product validation, quality assurance, and algorithm stewardship continue through the lifetime of the instrument.	**3. Validated** o Validated PowerPoint Presentation o Product Evaluation including Quality Flags analysis/validation o Product status and accuracy assessment including error budget o Identify know issues and assessment (Closed DRs, and Assessment of any Open DRs) o Feedback from key users o Summary of Findings and Recommendations o Readme Document for Data Users (goes to CLASS) o ATBD o Users Manuals

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Meeting Sessions: May 12-16, 2014

STAR/JPSS Annual Science Meeting (5/12-5/16)

5/12/2014	5/13/2014	5/14/2014	5/15/2014	5/16/2014
	Session 3: Plenary **8:30 – 12:00 Noon** **EDR Team Leads Reports/Overview** Aerosols Clouds Soundings Ozone (20 Minutes Each)	**Session 4: SDR Science Break-out Sessions** **8:30 – 12:00 PM (Contd..)** VIIRS 4a | ATMS/CrIS 4b | OMPS 4c	**Session 6: Plenary** **Non-NOAA Satellite Data** **8:30 – 12:00** GCOM Presentation Moderator-led Discussion on: Non-NOAA data Generation of Blended Products Reprocessing Climate Applications	**Session 9: Plenary** **SDR/EDR Team Leads Report Back** **8:30 – 12:00** Innovative Science Talks Short Presentations by SDR Team Leads (10 Minutes Each)
	Coffee Break: 9:50 – 10:20 AM	Coffee Break: 10:00 – 10:30 AM	Coffee Break: 10:00 – 10:30 AM	Coffee Break: 10:00 – 10:30 AM
	EDR Team Leads Reports/Overview contd.. Imagery Land Cryosphere SST Ocean Color (20 Minutes Each)	**Session 4: SDR Science Break-out Sessions Continued ...** VIIRS 4a | ATMS/CrIS 4b | OMPS 4c	**Session 7: User Breakouts** **10:30 – 12:00** Land/Cryo Data Assimilation Imagery /Cloud Applications CrIS Atm. Chem. (CO); OLR Microwave Precip; Ozone; VIIRS aerosol Assimilation Ocean color; SST	**Session 9: Plenary** **SDR/EDR Team Leads Report Back – Continued...** Short Presentations by EDR Team Leads (10 Minutes Each) Open Discussion Wrap-up
Meeting Begins 1:30 PM	Lunch Break 12:00 – 1:30 PM	Lunch Break 12:00 – 1:30 PM	Lunch Break 12:00 – 1:30 PM	Meeting Adjourns at Noon
Session 1: Plenary **1:30-2:45 PM** Welcome Opening Remarks Meeting Objectives	**Session 4: SDR Science Break-out Sessions** **1:30 – 5:00 PM** VIIRS 4a | ATMS/CrIS 4b | OMPS 4c	**Session 5 EDR Science Break-out Sessions** **1:30 – 5:00 PM** 5a | 5b | 5c | 5d | 5e (5a) VIIRS Land/Cryo;(5b) VIIRS Atm. (5c) VIIRS Ocean; (5d) Soundings (5e) Ozone	**Session 7: Plenary** **ALL User Feedback** **13:30 -14:30** **Session 8: Plenary** **Transition to Operations** **14:30 – 17:00** JPSS Algorithm Change Process NESDIS Unique Products (NUP)	
Coffe Break 2:45 – 3:00 PM	Coffe Break 3:00-3:30 PM	Coffe Break 3:00-3:30 PM	Coffe Break 3:00-3:30 PM	
Session 2: Plenary **3:00 – 5:00 PM** **SDR Team Leads Reports/Overview** ATMS CrIS VIIRS OMPS ICVS (20 Minutes Each)	**Session 4: SDR Science Break-out Sessions Continued ...** VIIRS 4a | ATMS/CrIS 4b | OMPS 4c	**Session 5 EDR Science Break-out Sessions Continued ...** 5a | 5b | 5c | 5d | 5e (5a) VIIRS Land/Cryo;(5b) VIIRS Atm (5c) VIIRS Ocean; (5d) Soundings (5e) Ozone	**Session 8: Plenary** **Transition to Operations Continued ...** JPSS & SPSRB Change Process AIT Capabilities AIT/NDE Integration SNPP/JPSS ESPC Operations	

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Logistics

EVACUATION ROUTING AND ASSEMBLY AREA

Attention: The no food and drink in the auditorium

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STAR JPSS Scientists Honored with 2014 Dept. of Commerce Bronze Medals

Congratulations to: **Ivan Csiszar, Larry Flynn, Andrew Heidinger, Don Hillger, Alexander Ignatov, Jeff Key, Shobha Kondragunta, Istvan Laszlo, Tony Reale, Marco Vargas, Menghua Wang, Yunyue Yu, and Xiwu Zhan**

"For timely creation and leadership of the team whose work increased the scientific value of Suomi NPP environmental data products to meet NOAA users' needs"

Thank You!