



## NOAA JPSS Monthly Program Office

# AMP/STAR FY22 TTA

Lihang Zhou, DPMS Deputy  
Bonnie Reed, Algorithm Sustainment Lead  
Alisa Young, AMP Deputy for Science  
& JPSS STAR Program Manager

Oct, 2022

# Highlights from the Science Teams (September)

## 6<sup>th</sup> International Symposium of Recent Advances In Quantitative Remote Sensing



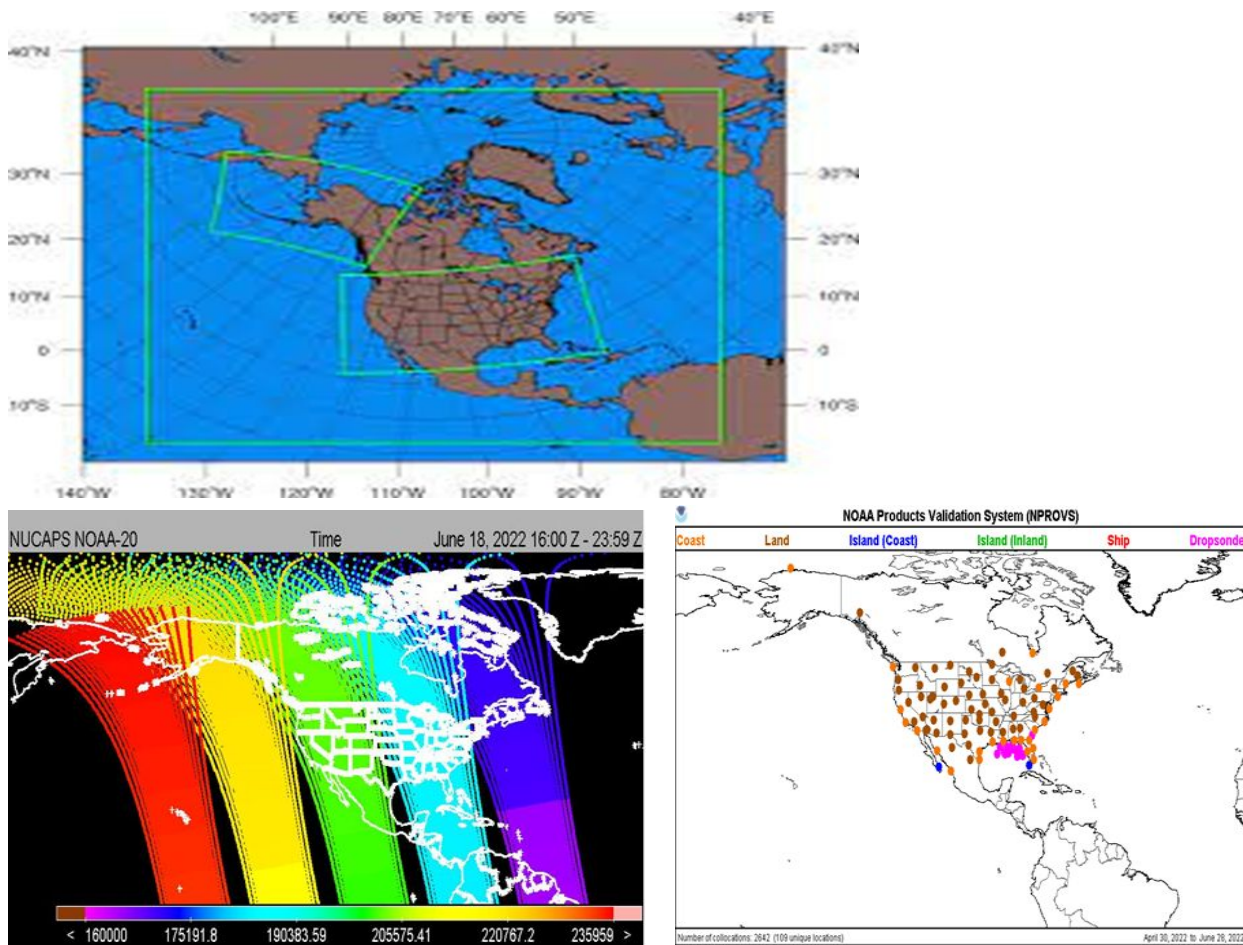
Top: A panel presentation at the meeting and bottom: a photograph of the meeting attendees.

Dr. Yunyue Yu attended the RAQRS2022 meeting in the week of September 19, 2022, in Valencia, Spain. This meeting occurs every 2-3 years attracting satellite remote sensing data developers worldwide sharing their latest accomplishments in algorithms and applications. Dr. Yu is one of the RAQRS scientific committee members since 2010, he gave an oral presentation entitled “Monitoring and Reporting Global Land Surface Temperature Anomaly from JPSS Satellites”.

During the discussion period, he also introduced other STAR satellite land products. We expect that our LST monitoring website will be visited more frequently after this. Due to contacts made during this meeting, the STAR LST team may propose a joint session to the EUMESTAT annual meeting in 2023.

# Highlights from the Science Teams (September)

## Integrate NWS HRRR Regional Forecast Model Data into the NPROVS



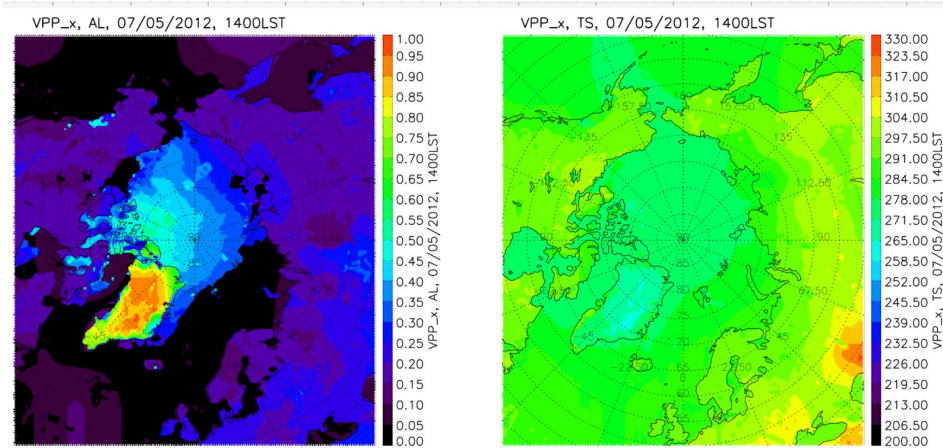
The geographic domains of the HRRR model (top), locations of N20 NUCAPS retrievals (bottom left), and collocated radiosonde locations (bottom right).

NWS forecasters typically overlay atmospheric temperature and moisture profiles from satellite-based NOAA Unique Combined Atmospheric Processing System (NUCAPS), available ground truth Radiosonde observations and hourly HRRR regional forecast model data to help identify potential severe weather events in the continental US (CONUS) and issue warnings to the public.

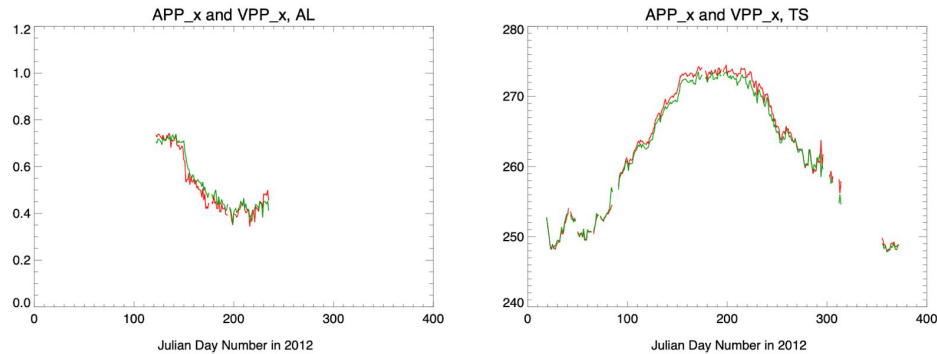
The inclusion of HRRR model data in NPROVS creates opportunities for “*enterprise assessment of Radiosonde (low right), NUCAPS (low left) and HRRR (upper) forecasts*” across CONUS, providing independent estimates of their respective error characteristics (uncertainty). Such information can assist forecasters to optimally integrate these 3 sources of ambient weather data for improved short-term weather prediction.

# Highlights from the Science Teams (September)

## The VIIRS Polar Pathfinder Climate Data Records



Surface broadband albedo (left) and surface skin temperature (right) from VPP-x at a local solar time of 14:00 over the Arctic on July 5, 2012.

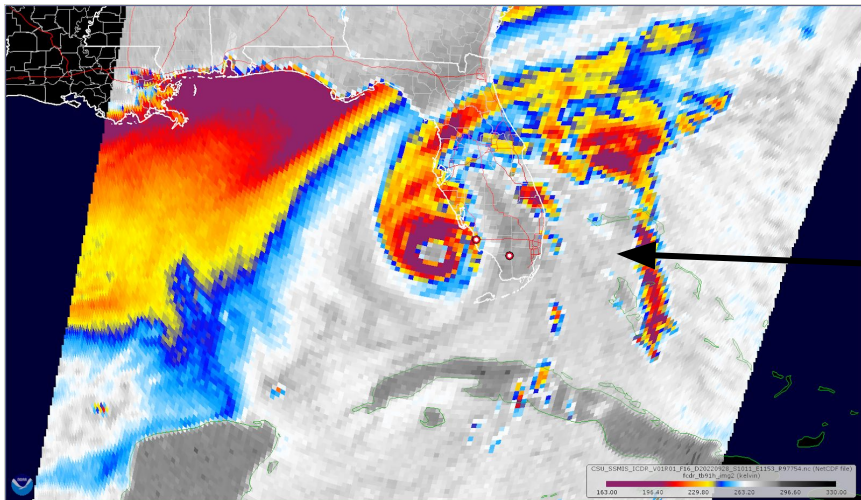


Time series of surface broadband albedo (left) and surface skin temperature (right) for ice and snow surfaces at a local solar time of 14:00 over the Arctic area north of 60°N through the year of 2012 from APP-x (red curve) and VPP-x (green curve).

NOAA and CIMSS have begun testing the extension in time of the AVHRR Polar Pathfinder and the Extended AVHRR Polar Pathfinder climate data records using a VIIRS data product that is similar to the AVHRR Global Area Coverage data upon which APP is based. The VIIRS product, called VGAC, will be used in place of the AVHRR GAC going forward. This is particularly important given the substantial orbital drift of NOAA-19 and the limited future of the AVHRR. APP is a fundamental climate data record (FCDR) with level-1 information. APP-x, a thematic climate data record (TCDR), is a suite of 20 higher-level products including surface temperature and albedo, sea ice thickness, cloud properties, and radiative fluxes. APP and APP-x are updated daily and delivered to NCEI for distribution. The extension of the AVHRR CDRs with VIIRS data is supported by the JPSS Program.

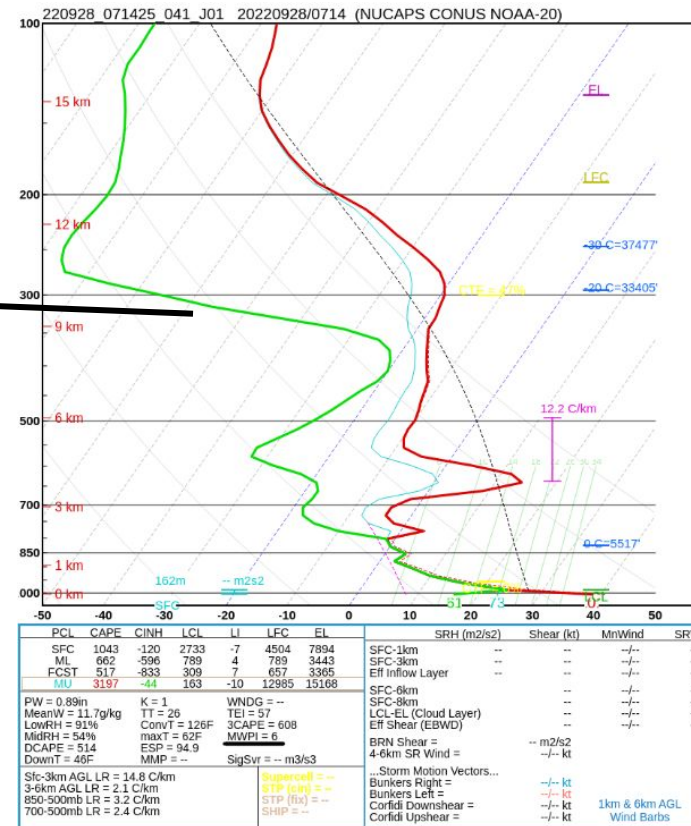
# Highlights from the Science Teams (September)

## Extremely unstable air supercharges Hurricane Ian



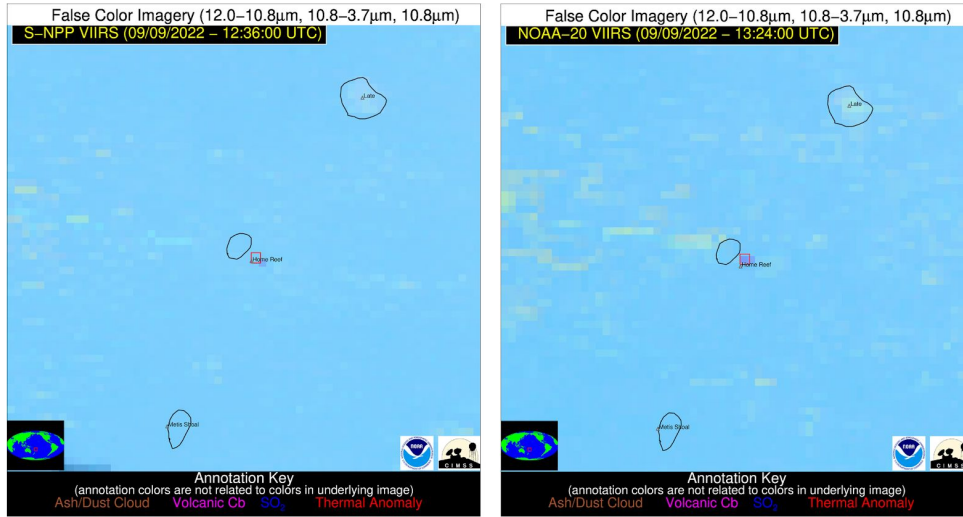
A NOAA-20 NUCAPS sounding profile was captured in a dry slot on the eastern periphery of the eye wall of Hurricane Ian during the morning of September 28, 2022.

NUCAPS captured several retrievals along the track of Hurricane Ian from prior to landfall over southwestern Florida to its second landfall on the South Carolina coast. In general, NUCAPS accurately indicated a very convectively unstable atmosphere with low-level saturation and dry air aloft and a possible stratospheric intrusion that favored strong downburst winds.



Sounding profile for indicated regions shows large potential instability and the favorability of strong downburst winds over south Florida.

## Utility of JPSS-based Thermal Anomaly Detections

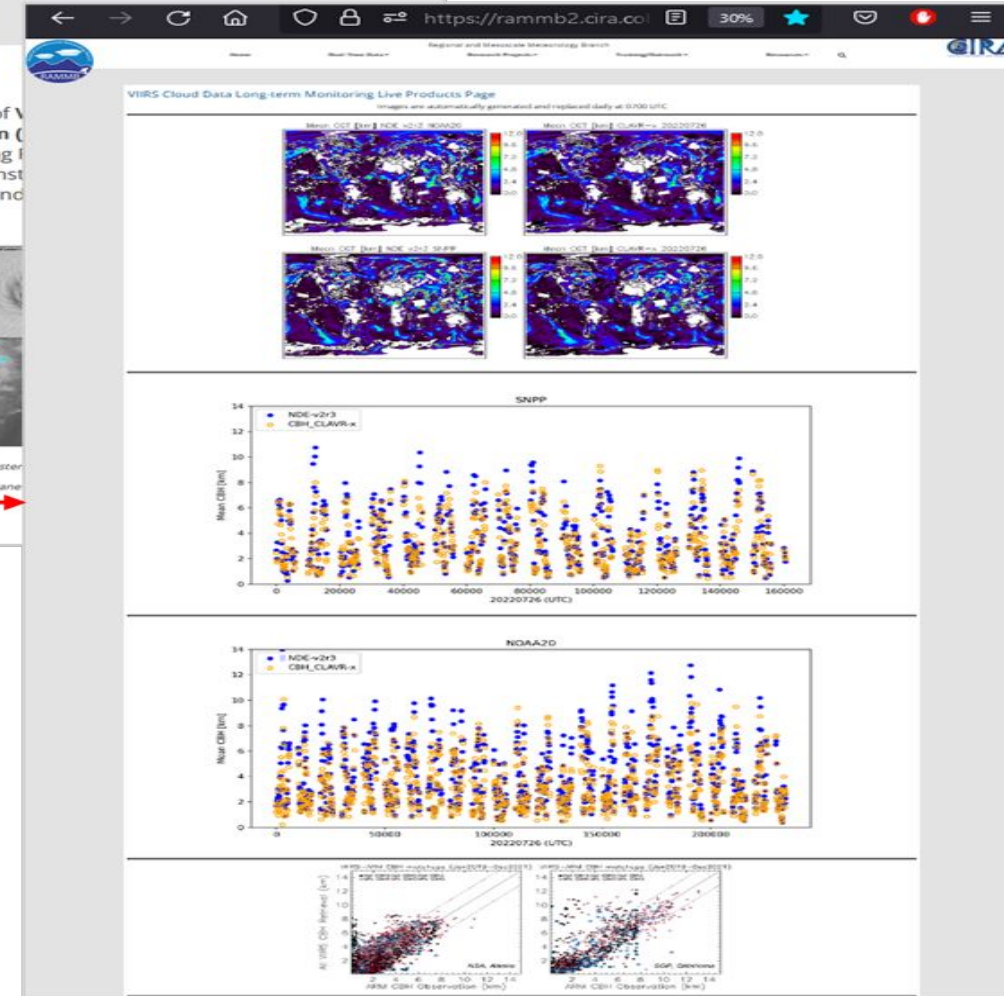


VOLCAT based imagery of thermal anomalies in Tonga, indicating new volcanic activity.

Two JPSS-based (S-NPP VIIRS and NOAA-20 VIIRS) VOLCAT thermal anomaly alerts identified new volcanic activity at Home Reef located in Tonga (there was no known recent volcanic activity at Home Reef prior to these alerts). The alert information was relayed from NOAA and USGS representatives to the Tonga Geological Service (TGS). The TGS has continued to utilize the VOLCAT thermal monitoring dashboard and VOLCAT imagery to create frequent advisories on the ongoing volcanic activity at Home Reef.

Public notice from Tongan government utilizing JPSS thermal anomaly detection.

## Utility of JPSS-based Thermal Anomaly Detections



Screen capture of the new CIRA cloud product validation page.

CIRA's new website for long-term monitoring and evaluation of JPSS VIIRS Cloud Base Height and Geometric Thickness products is publicly available as part of JPSS VIIRS Cal/Val research

(<https://rammb2.cira.colostate.edu/research/cloud-calibration-validation/>). Global mean distributions of the NDE operational products from S-NPP/-20 VIIRS and local CLAVR-x output, and time-series are daily updated. Comparisons with surface measurements from ARM sites are also displayed.

# Accomplishments

- Delivery Algorithm Packages (DAPs) – Mission Unique Products:
  - **08/31/2022** VIIRS team delivered DAP (ADR-8823/CCR-6123, JPSS-2 VIIRS Mounting Matrix in Geo LUTs Update) to ASSIST team.  
**09/07/2022** ASSISTT delivered the DAP to DPMS. Delivered to RTN on **09/14/2022**.  
List of changes (3 LUTs, LUT update only): VIIRS-SDR-GEO-IMG-PARAM-V2-LUT\_j02; VIIRS-SDR-GEO-MOD-PARAM-V2-LUT\_j02; VIIRS-SDR-GEO-DNB-PARAM-V2-LUT\_j02
  - **09/07/2022** ATMS team delivered DAP (ADR-10041/CCR-6126, JPSS-2 ATMS Post TVAC Sensor Mounting Matrix PCT (v004) Update) to ASSISTT team. **09/09/2022** ATMS team re-delivered the package to ASSISTT (a minor update to be fully compatible with the CAL data book).  
**09/14/2022** ASSISTT delivered the DAP to DPMS. Delivered to RTN on **09/21/2022**.  
List of changes (PCT update only): ATMS-SDR-CC\_j02, for both SIDE-A and SIDE-B (two tables)
  - **09/08/2022** CrIS team delivered DAP (ADR-10042/CCR-6127, JPSS-2 CrIS Post TVAC Sensor Mounting Matrix PCT Update) to ASSIST team.  
**09/13/2022** ASSISTT delivered the DAP to DPMS. Delivered to RTN on **09/21/2022**.  
List of changes (PCT update only): CrIS-FS-SDR-CC\_j02
  - **09/09/2022** OMPS team delivered DAP (ADR-10044/CCR-6135, JPSS-2 OMPS Mounting Matrix Coefficients update) to ASSISTT team.  
**09/14/2022** OMPS team re-delivered the package to ASSISTT (regenerated the LUTs. Need define the constants as double precision).  
**09/16/2022** ASSISTT delivered the DAP to DPMS. Delivered to RTN on **09/26/2022**.  
List of changes (2 LUTs: one for the OMPS-TC and one for OMPS-NP. LUT update only): OMPS-NP-SDR-CC\_j02; OMPS-TC-SDR-CC\_j02
  - **09/12/2022** ATMS team delivered updated ATBD (Rev. B) to JSTAR  
List of files: D0001-M01-S01-001\_JPSS\_ATBD\_ATMS-SDR\_B



# Accomplishments

- **Delivery Algorithm Packages (DAPs) – Enterprise Products:**
  - **09/01/2022** VFM team provided JPSS-2 VFM Cal/Val timeline for Beta/Provisional/Validated maturity
  - **09/01/2022** STAR delivered JPSS Clouds Preliminary CCAP (v1.0) to NCCF/OSPO (This is an initial delivery of JPSS Clouds for software code review by OSPO. No scientific changes since the VIIRS “Super DAP” v3r2 delivery to NDE. The only new code in this delivery is the Python wrapper scripts for the CCAP)
  - **09/08/2022** STAR delivered MiRS v11.8 Final CCAP (MiRS version number: 11.8; CCAP version number: 2.0) to NCCF (This delivery is a final Enterprise CCAP delivery to NCCF for NDE Migration)  
Changes: (1). Added new python script to produce the final MIRS-MONITORING text file; (2). Added functionality for JPSS satellites; (3). Updated Python scripts to accommodate processing the new satellites; (4). Updated docker configuration to match current team standards
  - **09/08/2022** STAR delivered VIIRS Flood Mapping Patch CCAP (v1r1) to NCCF (This is a patch delivery of the VFM CCAP to NCCF as part of the JPSS reprocessing efforts. This patch prevents output files from having a creation time of 60.0 seconds and allows for partial processing of near-polar granules (allow data that lies below 80 degrees to be processed); Minor updates to netCDF attributes, and to the build scripts)
  - **09/09/2022** STAR delivered VIIRS Flood Mapping (v1r0) to CSPP (This is the first VFM delivery to CSPP LEO)
  - **09/13/2022** STAR delivered OMPS V8Pro (V4r2, final DAP for NOAA-21 and maintenance DAP for NOAA-20 and NPP) to CSPP  
Changes: (1). Modified scripts and codes for adding more source info into the metadata; (2). Updated soft-calibration adjustments for both S-NPP and N20 (set J02 soft-calibrations to be zero for later adjustments); (3). New-added/Modified metadata variables
  - **09/16/2022** STAR delivered BUFR Toolkit v5.4 Patch to NDE (for G18 DMW and CSR/ASR. The newer version g2lib-3.2.0 was used)
  - **09/20/2022** STAR delivered Blended Hydro Patch DAP to NDE (One file patch to Blended Hydro to update snow cover/sea ice)
  - **09/20/2022** STAR delivered M-Band Active Fires Patch DAP to NDE (to fix Fire Radiative Power coefficient for J2)
  - **09/21/2022** STAR delivered Patch DAP for VPW SuperDAP to NDE (to fix granule filtering of +/- 50 deg, single file update)
  - **09/27/2022** MiRS v11.8 CCAP Patch Delivery Update to NCCF (Changes: Config files were updated to enable multi-threading and lower processing time; Python scripts received a full rewrite to accommodate processing the new satellites)
  - **10/06/2022** BUFR Toolkit Patch CCAP Delivery to the Cloud (BUFR Toolkit CCAP v5.3.1, Final CCAP Patch for BUFR Toolkit)
  - **10/08/2022** STAR LSA team delivered the VIIRS climatology files to OSPO/NDE/ASSISTT to replace the one used in the latest J2 DAP package (v2r2, No code change related during this replacement)
  - **10/14/2022** GBBEPx Patch CCAP v1r1 Delivery to the Cloud (to address potential stripe-line false alarms in VIIRS M-band fire observations)
  - **10/17/2022** Preliminary CCAP Delivery for MiRS v11r9 to OSPO for SCR (software code review)  
Changes: (1). Updates to the snowfall rate (SFR) algorithm; (2). Implementation of a new and up to date higher-resolution (0.05 degree lat/lon) land/water surface type database derived from global VIIRS data; (3). AIM interface was incorporated (run GFS/EDR units independently or both)

# Accomplishments

- JPSS-2 Pre-Launch Testing events:
  - JCT2a-DSE (8/24/2021): 10/06/2021 JSTAR submitted review/checkout [summary report](#)
  - JCT3-AMB DSE part2 (OMPS Science RDRs Not Timeshifted)
    - 5/04/2022 OMPS SDR team provided review/checkout report (no problem, as expected)
  - JCT3-TVAC Segment 1 (5/10-5/13, 72hr): 5/15/2022 JSTAR submitted review/checkout [summary report](#)
  - JCT3-TVAC Segment 2 (5/17–5/19, 39hr): 5/23/2022 JSTAR submitted review/checkout [summary report](#)
  - JCT3-TVAC Segment 3 (5/25-5/26, 33hr): 5/27/2022 JSTAR submitted review/checkout [summary report](#)
  - JCT3-TVAC SDR teams reports: 06/22/2022 [CrIS](#); 07/06/2022 [VIIRS](#); 05/23/2022 [OMPS](#)
  - JCT4 (7/11-12/2022) SDR teams reports: 07/14/2022 [ATMS](#); 07/14/2022 [CrIS](#); 08/04/2022 [JSTAR report](#) (data files STAR received during JCT4)
  - ICVS beta run through J2 pre-launch testing JCT3-TVAC S1/S2/S3, JCT4 data, figures are available at [ICVS-beta](#) website
  - One-Orbit JPSS-2 Proxy data
    - STAR teams checked/run the one-orbit data, provided [summary report](#) on 5/12/2022
  - Three-Orbit JPSS-2 Proxy data
    - 7/14/2022 STAR downloaded the three-orbit J2 proxy data, and posted on STAR FTP for OSPO/NDE to download for J2 EDR test runs
    - **Oct-2022 STAR teams review/checkout NDE 3-orbit run:**
      - **10/04/2022 OMPS Ozone team provided checkout results (V8TOz, V8Pro)**
      - **10/07/2022 Aerosol team provided ADP checkout results**
      - **10/12/2022 Aerosol team provided AOD checkout results**
      - **10/13/2022 Volcanic Ash provided checkout results**
      - **10/13/2022 Surface Albedo team provided LSA checkout results**
      - **10/14/2022 Cryosphere team provided checkout results (Sea Ice, Snow)**

- **VIIRS Global Annual Surface Type (AST-2021)**

**09/16/2022:** The new VIIRS Annual Surface Type 2021 product (AST-2021, spatial resolution: 1km) based on 2021 whole year surface reflectance data is ready for users to download at STAR FTP sites (see <https://www.star.nesdis.noaa.gov/jpss/index.php> for details).

**NetCDF version:**

- [VIIRS-AST-EMC20-GEO](#)
- [VIIRS-AST-IGBP17-GEO](#)
- [VIIRS-AST-IGBP17-SIN](#)

**Zip version:**

- [VIIRS-AST-EMC20-GEO](#)
- [VIIRS-AST-IGBP17-GEO](#)
- [VIIRS-AST-IGBP17-SIN](#)

Science team also delivered updated ATBD (v2.1, updates for AST-2021):

- [VIIRS Surface Type AST-2021 ATBD](#)

# Accomplishments – JPSS Cal Val Supports

- NOAA-20/S-NPP Operational Calibration Support:

S-NPP	Weekly OMPS TC/NP Dark Table Updates	09/06/22, 09/13/22, 09/20/22, 09/27/22, 10/04/22, 10/12/22, 10/19/22
NOAA-20	Weekly OMPS TC/NP Dark Table Updates	09/06/22, 09/13/22, 09/20/22, 09/27/22, 10/04/22, 10/12/22, 10/19/22
S-NPP	Bi-Weekly OMPS NP Wavelength & Solar Flux Update	09/13/22, 09/27/22, 10/12/22
NOAA-20	Bi-Weekly OMPS NP Wavelength & Solar Flux Update	09/06/22, 09/20/22, 10/04/22, 10/19/22
S-NPP	Monthly VIIRS LUT Update of DNB Offsets and Gains	09/06/22, 10/04/22
NOAA-20	Monthly VIIRS LUT Update of DNB Offsets and Gains	09/06/22, 10/04/22

- Transition of the reprocessed SDRs to CLASS/NCEI:

- The official transition of the reprocessed SNPP SDRs to CLASS/NCEI started on December 1, 2021
- The transition of the reprocessed SNPP ATMS, CrIS, and OMPS data was completed. These data are available at CLASS website now
- The transition of the reprocessed SNPP VIIRS started on March 15, 2022
- The reprocessed SNPP VIIRS SDR data from 1/2/2012 to 1/26/2015 (**585.82T, 36.27%** of total) has been completed as of **September 30, 2022**
- It's expected that the VIIRS data transition will complete in October, 2023

- Recent VIIRS Imagery Social Media/Blog Posts

- 09/12/2022 [Mid-Sep 2022 Western US Fires](#)
- 09/28/2022 [Hurricane Ian](#)
- 09/14/2022 [VIIRS NCC captures smoke from Mosquito wildfire](#)
- 09/28/2022 [VIIRS NCC imagery of Hurricane Ian morning before FL landfall](#)

- **November, 2022 Maturity Review (11/17/2022):**
  - ATMS TDR/SDR (Beta Maturity)
  
- **December, 2022 Maturity Review:**
  - ATMS TDR/SDR (Provisional Maturity)
  - VIIRS SDR (Beta Maturity)
  - VIIRS KPP Imagery EDRs (Beta Maturity)
  
- **January, 2023 Maturity Review:**
  - CrIS SDR (Beta Maturity)
  - OMPS SDR (OMPS-NP & OMPS-TC, Beta Maturity)
  
- **February, 2023 Maturity Review:**
  - VIIRS SDR ((Provisional Maturity)
  - CrIS SDR ((Provisional Maturity)
  - OMPS SDR (OMPS-NP & OMPS-TC, (Provisional Maturity)
  - VIIRS KPP Imagery EDRs ((Provisional Maturity)
  - VIIRS non-KPP Imagery EDRs (Beta Maturity)
  - OMPS Ozone EDR (V8Pro & V8TOz, Beta Maturity)

- JSTAR Code/LUT/Product Deliveries:

DAP to DPMS:

NOAA-20/JPSS-2 Algorithm DAP to NCCF:

- Nov-22: J2-ready OMPS LP DAP to ASSISTT (Oct-22: L1 code; Nov-22: L1 & L2 code package)
- Mar-23: J2-ready Ocean Color DAP to NCCF (ASSISTT  NCCF)



# FY22 STAR JPSS Milestones

Milestones	Original Date	Forecast Date	Actual Completion Date	Variance Explanation
<b>Algorithm Updates DAPs</b>				
Final launch-ready JPSS-2 ATMS PCT/MM-coef DAP	Aug-22	Aug-22	Post-TVAC: 09/14/22	Pre-dynamic: 03/08/22
Final launch-ready JPSS-2 CrIS PCT/MM-coef DAP	Aug-22	Aug-22	Post-TVAC: 09/13/22	Pre-dynamic: 03/11/22
Final launch-ready JPSS-2 VIIRS LUTs/MM-coef DAP	Aug-22	Aug-22	Post-TVAC: 09/07/22	Pre-dynamic: 02/24/22
Final launch-ready JPSS-2 OMPS LUTs/MM-coef DAP	Aug-22	Aug-22	Post-TVAC: 09/16/22	Pre-dynamic: 03/08/22
Final J2 ready Super DAP (include NPP/N20 updates), Clouds/Aerosol/VolcanicAsh/Cryosphere/LST/LSA/VPW	Mar-22	May-22	12/06/21 v3.1 patch DAP 02/24/22 XML cnf file to NDE 05/17/22 v3.2 final DAP 07/13/22 patch DAP	
Final J2 ready Active Fires DAP (include NPP/N20 updates, I-Band)	Mar-22	Mar-22	03/17/22	
Surface Reflectance: Final J2 ready DAP	Oct-21	Oct-21	10/07/21 02/02/22 (patch DAP)	
NVPS (VI & GVF): Final J2 ready DAP	Mar-22	Mar-22	03/29/22 (code & docs) 04/08/22 data only	
Vegetation Health: Initial/Final (combined) J2 ready DAP	Dec-21	Dec-21	12/20/21	
SST: Final J2 ready DAP (ACSPO 2.80)	Dec-21	Dec-21	Initial/Final DAP: 09/16/21 EUM & SMM doc: 12/15/21	
NUCAPS: Final J2 ready DAP	Mar-22	Mar-22	04/08/22	
MiRS & SFR: Final J2 ready DAP	Mar-22	Mar-22	03/31/22	12/30/21 v11.6 patch
OMPS Ozone V8Pro: Final J2 ready DAP	Mar-22	Jun-22	07/08/22	02/17/22 to ASSISTT
OMPS Ozone V8TOz: Final J2 ready DAP	Jan-22	Jan-22	02/03/22 V8TOZ: v4r2; V8TOS: v5r0	11/26/21 to ASSISTT
L3 Global Gridded LST/LSA (J2 DAP)	Mar-22	May-22	12/30/21 Prelim J2 DAP 05/13/22 Final J2 DAP	
Reformatting Toolkit	Mar-22	May-22	05/25/22	
AMSR-3 ready DAP (include AMSR-2 updates)	Sep-22	FY23		NCCF schedule

# FY22 STAR JPSS Milestones

Milestones	Original Date	Forecast Date	Actual Date	Variance Explanation
<b>Algorithm Cal/Val/LTM</b>				
FY21 End of Year Science Team Presentations (all teams)	Oct-21	Oct-21	Oct/Nov-2021	
FY23 Program Management Review (all teams)	Jun-22	Jun-22	May/June-2022	
Enterprise Cal/Val plan for J2 OMPS LP SDR & EDR	Dec-21	Dec-21	12/09/21	
GCOM: AMSR-3/Enterprise Cal/Val Plan - draft delivery	Jan-22	Jan-22	Jan-22	
GCOM: AMSR-3/Enterprise Cal/Val Plan - final delivery	Jun-22	Jun-22	06/30/22	
AST-2021 (VIIRS Annual Surface Type)	Sep-22	Sep-22	09/16/22	
Support Alaska Demo (JPSS Aviation Initiative)	Sep-22	Sep-22	Sep-22	Ongoing work
JPSS-3 pre-launch test data review/analyze (SDR teams)	Sep-22	Sep-22	Sep-22	
Update J2-ICVS prototype to support J2 ICVS readiness (for JCT-3 test)	Sep-22	Sep-22	Oct-21: JCT2a-DSE Feb-22: one-orbit J2 data May-22: JCT3-TVAC S1/2/3 Jul-22: JCT-4	
Maintain / expand existing EDR LTM web pages and JSTAR Mappers	Sep-22	Sep-22	Sep-22	Ongoing work
Images of the Month	Monthly	Monthly	Sep-22	Ongoing work





# FY22 STAR JPSS Milestones

Milestones	Original Date	Forecast Date	Actual Completion Date
<b>Operational/Program Support</b>			
S-NPP: Weekly OMPS TC/NP Dark Table Updates	Weekly	Weekly	10/05/21, 10/13/21, 10/19/21, 10/26/21, 11/02/21, 11/09/21, 11/16/21, 11/23/21, 11/30/21, 12/07/21, 12/14/21, 12/21/21, 01/04/22, 01/11/22, 01/18/22, 01/25/22, 02/01/22, 02/08/22, 02/15/22, 02/22/22, 03/01/22, 03/08/22, 03/15/22, 03/22/22, 03/29/22, 04/06/22, 04/12/22, 04/19/22, 04/26/22, 05/03/22, 05/10/22, 05/17/22, 05/24/22, 05/31/22, 06/07/22, 06/14/22, 06/22/22, 06/28/22, 07/06/22, 07/12/22, 07/19/22, 07/26/22, 08/16/22, 08/23/22, 08/30/22, <b>09/06/22, 09/13/22, 09/20/22, 09/27/22, 10/04/22, 10/12/22, 10/19/22</b>
S-NPP: Bi-Weekly OMPS NP Wavelength & Solar Flux	Bi-Weekly	Bi-Weekly	10/13/21, 10/26/21, 11/09/21, 11/23/21, 12/07/21, 12/21/21, 01/04/22, 01/18/22, 02/01/22, 02/15/22, 03/01/22, 03/15/22, 03/29/22, 04/12/22, 04/26/22, 05/10/22, 05/24/22, 06/07/22, 06/22/22, 07/06/22, 07/19/22, 08/02/22, 08/16/22, 08/23/22, 08/30/22, <b>09/13/22, 09/27/22, 10/12/22</b>
S-NPP: Monthly VIIRS LUT update of DNB Offsets and Gains	Monthly	Monthly	10/12/21, 11/09/21, 12/14/21, 01/11/22, 02/08/22, 03/08/22, 04/06/22, 05/04/22, 06/07/22, 07/05/22, <b>09/06/22, 10/04/22</b>
NOAA-20: Weekly OMPS TC/NP Dark Table Updates	Weekly	Weekly	10/05/21, 10/13/21, 10/19/21, 10/26/21, 11/02/21, 11/09/21, 11/16/21, 11/23/21, 11/30/21, 12/07/21, 12/14/21, 12/21/21, 01/04/22, 01/11/22, 01/18/22, 01/25/22, 02/01/22, 02/08/22, 02/15/22, 02/22/22, 03/01/22, 03/08/22, 03/15/22, 03/22/22, 03/29/22, 04/06/22, 04/12/22, 04/19/22, 04/26/22, 05/03/22, 05/10/22, 05/17/22, 05/24/22, 05/31/22, 06/07/22, 06/15/22, 06/22/22, 06/28/22, 07/06/22, 07/12/22, 07/19/22, 07/26/22, 08/02/22, 08/09/22, 08/16/22, 08/23/22, 08/30/22, <b>09/06/22, 09/13/22, 09/20/22, 09/27/22, 10/04/22, 10/12/22, 10/19/22</b>
NOAA-20: Bi-Weekly OMPS NP Wavelength & Solar Flux	Bi-Weekly	Bi-Weekly	10/05/21, 10/19/21, 11/02/21, 11/16/21, 11/30/21, 12/14/21, 01/04/22, 01/11/22, 01/25/22, 02/08/22, 02/22/22, 03/08/22, 03/22/22, 04/06/22, 04/19/22, 05/03/22, 05/17/22, 05/31/22, 06/14/22, 06/28/22, 07/12/22, 07/26/22, 08/09/22, 08/23/22, <b>09/06/22, 09/20/22, 10/04/22, 10/19/22</b>
NOAA-20: Monthly VIIRS LUT update of DNB Offsets and Gains	Monthly	Monthly	10/12/21, 11/09/21, 12/14/21, 01/11/22, 02/08/22, 03/08/22, 04/06/22, 05/04/22, 06/07/22, 07/05/22, 08/02/22, <b>09/06/22, 10/04/22</b>
Block 2.3 Mx builds deploy regression review/checkout (Jan-22 Mx5; Mar-22 Mx6; Jun-22 Mx7 SDRs and VIIRS Imagery teams)	Sep-22	Sep-22	<b>Mx5 SOL: 11/23/21; Mx5 I&amp;T: 01/06/22</b> <b>Mx6 I&amp;T: 03/22/22</b> <b>Mx7 SOL: 05/26/22; Mx7 I&amp;T: 06/23/22</b>
Participant/support JPSS-2 pre-launch testing events (Mar-22 JCT3-Ambient; May-22 JCT3-TVAC; Jul-22 JCT4)	Sep-22	Sep-22	<b>10/06/21: JCT2a-DSE ; 03/01/22: JCT3-Ambient (OMPS J2 RDRs)</b> <b>JCT3-TVAC: Segment 1 5/10-13 ; Segment 2 5/17-19 ; Segment 3 5/25-26</b> <b>SDR teams reports: 06/22/22 ; 07/06/22 ; 05/23/22</b> <b>07/11-12/22 JCT4: 07/14/22 team reports: ; ; 08/04/22: JSTAR Report</b>

## STAR JPSS Schedule: TTA Milestones

