Weekly Report

CIRA
STAR/NESDIS
National Oceanic and Atmospheric Administration (NOAA)

Submitted by: Maranda Hutson
Date of Submission: 19 Jan 2024
Prepared by: CIRA and STAR contributors

Products and Applications

VIIRS Imagery Review: The VIIRS Imagery Team at CIRA downloaded and reviewed imagery and submitted a report for the IDPS Block 2.3 Mx9 I&T Review/Checkout. Based on the review, the team's recommendation was to proceed with the B2.3 Mx9 transition to operations. (POC: Bill Line, SMCD/APDB, Curtis Seaman, Steve Finley, CIRA, bill.line@noaa.gov) Funding: JSTAR (submitted to SMCD report)

GOES-19 DOE: CIRA participated in the GOES-19 Data Operations Exercise (DOE) by testing the GOES-19 simulated data files in local software. Specifically, CIRA generated Geocolor imagery, and processed and displayed Imagery in AWIPS. (POC: Bill Line, SMCD/APDB, Curtis Seaman, CIRA, bill.line@noaa.gov) Funding: GOES AWG (submitted to SMCD report)

Figure: Full Disk Geocolor Image generated from GOES-19 DOE files.

Publications (Citation: followed by a short **Summary:** (Why & so what)**, & detailed summary):**

Awards and Recognition

Media Interactions and Requests

Weather Imagery Featured in NOAA Social Media Posts: Satellite visuals created by the Imagery Production Team made available in CIRA's Satellite Library were used in several posts made by NOAA social media accounts. More information and links can be found below. (POC: D. Smith, dakota.smith@colostate.edu K. Erickson, kim.erickson@colostate.edu, J. Reiter, josh.reiter@colostate.edu, CIRA) Funding: GOES-R; JPSS

NOAA Satellites on Instagram, Facebook, & X (formerly Twitter): "Japan's Himawari-9 satellite has been monitoring a tropical low...". https://www.instagram.com/p/C2PktqwrYkF/;

https://fb.watch/pFNRVykYxY/;
https://twitter.com/NOAASatellites/status/1747972190501523599.

NOAA Satellites on Facebook, & X (formerly Twitter): "Yesterday, NOAA's JPSS Program polar-orbiting satellites captured high resolution...".
https://www.facebook.com/photo?fbid=769627108543047&set=a.301865681985861;
https://twitter.com/NOAASatellites/status/1747610409350148131.

NOAA Satellites on Instagram, Facebook, & X (formerly Twitter): "Check out this #TimelapseTuesday loop via Europe's #Meteosat9 showing..."
https://www.instagram.com/p/C2LGK_ixybg/; https://fb.watch/pFOe7Rp3eY/;
https://twitter.com/NOAASatellites/status/1747342038977105946.

Blog Posts and Social Media

New Satellite Liaison Blog Post: Bill Line published a blog post titled "Mid-Jan 2024 Northern US Plains Blowing Snow as Observed by GOES ABI and JPSS VIIRS Imagery". The post reviews GOES and VIIRS Imagery of blowing snow across the northern plains from 1/10 to 1/15, including how satellite imagery was leveraged by NWS offices during these events. See Figure below. The link to the post can be found here. (POC: B. Line, SMCD/APDB, bill.line@noaa.gov) Funding: PDRA and JSTAR (submitted to SMCD report)

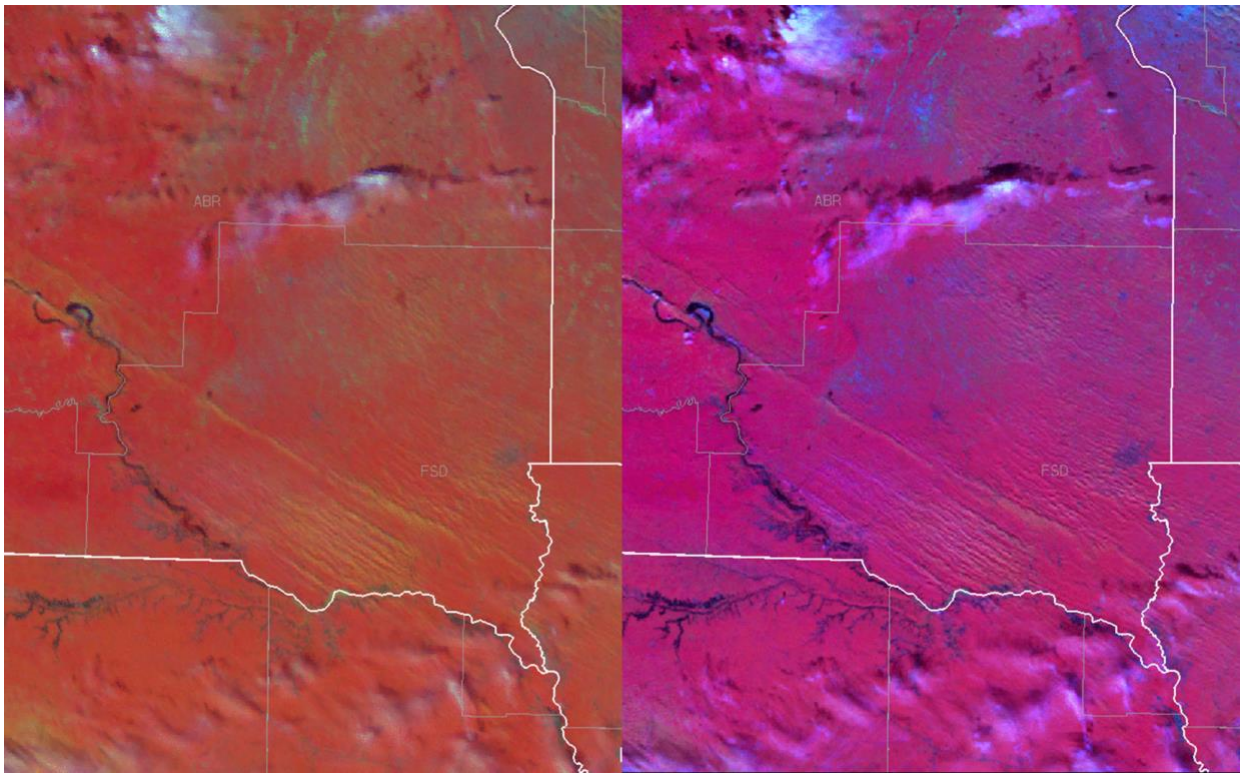

Figure: 15 Jan 2024 GOES-East (left) and VIIRS (right) experimental Blowing Snow RGB highlights Horizontal Convective Rolls (HCRs) with associated blowing snow across southwest South Dakota.

Travel, Workshops, Conferences, and Meeting Reports

Training and Education activities

New JPSS Quick Guide! A new JPSS Cross-track Infrared Sounder (CrIS) Imagery Quick Guide has been developed for users to view online via the *RAMMB CIRA CrIS Imagery webpage*. The reference material discusses the following CrIS Imagery attributes: the importance of the data, the imagery specifications, resolutions, latencies, primary applications and limitations, and the imagery (e.g., water vapor bands, RGBs, etc.) that are currently accessible within the JPSS Northern and Southern Hemisphere sectors on CIRA SLIDER. The guide can be accessed here: https://rammb2.cira.colostate.edu/research/cris-imagery/. The CrIS Imagery effort is a collaboration between the VIIRS Imagery team and the CrIS SDR team.

(POC: J. Torres, CIRA, B. Line, SMCD/APDB, B. Connell, CIRA, and E. Sanders, jorel.torres@colostate.edu, bill.line@noaa.gov). Funding: JPSS.

Future Meetings and Events (dates, meeting/event, location, staff involved)

Other