

Weekly Report

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

Submitted by: Maranda Hutson
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Prepared by: CIRA and STAR contributors

Products and Applications

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

Awards and Recognition

Media Interactions and Request

Blog Posts and Social Media

Imagery Production Team Satellite Imagery of Iceberg A23a featured by Media: As the formerly largest iceberg in the world begins to break apart, imagery made by the Imagery Production Team made available in the Satellite Library was featured in online media posts. More information and links can be found below. (POC: D. Smith, dakota.smith@colostate.edu CIRA) Funding: JPSS.

The Weather Channel: “Gone In November? World’s Biggest Iceberg Splinters, Melts”.
<https://weather.com/science/environment/video/gone-in-november-worlds-biggest-iceberg-splinters-melts>



Imagery Production Team content used in a video made by The Weather Channel.

Fox Weather: “World’s largest iceberg breaks apart over South Atlantic”,
<https://www.foxweather.com/earth-space/a23a-iceberg-breaks-apart-antarctic>

Travel, Workshops, Conferences, and Meeting Reports

Invited talk at the WMO Satellite Data Requirements Working Group Teleconference: Yoo-Jeong Noh gave a talk, titled “Satellite Cloud Cross-section Products for Aviation Users”, at the 36th WMO SDR-RA-III-IV Group Teleconference on 5 Sep 2025, attended by about 56 participants from South American countries, NOAA, and EUMETSAT. She presented CIRA’s research on satellite-based 3D cloud data, including applications in recent aircraft accident/incident investigations, and will continue further discussions to advance international collaborations. (POC: Y.J. Noh, yoo-jeong.noh@colostate.edu, CIRA) Funding: JPSS, GOES, ONR



CIRA Learning Journeys at UICFW25: The CIRA Learning Journey team presented a live demonstration of two sets of Learning Journey Jupyter Notebooks at the NOAA/EPIC Unifying Innovations in Forecasting Capabilities Workshop (UICFW25). These Python-based notebooks are part of an effort by the NOAA Center for Artificial Intelligence (NCAI) to provide interactive training materials showcasing Earth science data and artificial intelligence applications. The live demonstration covered two topics: i) predicting tropical cyclone rapid intensification using data from the Tropical Cyclone PRecipitation, Infrared, Microwave, and Environmental Dataset (TC PRIMED) and ii) predicting composite radar reflectivity from satellite data using the GOES Radar Estimation via Machine Learning to Inform NWP (GREMLIN) model. Like the Learning Journeys, both TC PRIMED and GREMLIN were developed at CIRA. To learn more about the Learning Journeys, see: <https://www.noaa.gov/resources/learning-journey-library> (POC: Naufal Razin, CIRA, Naufal.Razin@colostate.edu; Christopher Slocum, NOAA, Christopher.Slocum@noaa.gov; Kyle Hilburn, CIRA, Kyle.Hilburn@colostate.edu; Katherine Haynes, CIRA, Katherine.Haynes@colostate.edu; Funding: GOES-R, NCAI, IRA/IPG, PDRA)

GREMLIN at UIFCW25: K. Hilburn presented an overview of GREMLIN (GOES Radar Estimation via Machine Learning to Inform NWP) at the UIFCW25 (Unifying Innovations in Forecasting Capabilities) Workshop to support a hands-on training session for the GREMLIN Learning Journey developed by N. Razin and C. Slocum. (POC: Kyle Hilburn, CIRA, Kyle.Hilburn@colostate.edu; Naufal Razin, CIRA, Naufal.Razin@colostate.edu; Christopher Slocum, NOAA, Christopher.Slocum@noaa.gov; Funding: GOES-R).

Training and Education activities

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

Other