

Weekly Report

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

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Products and Applications

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

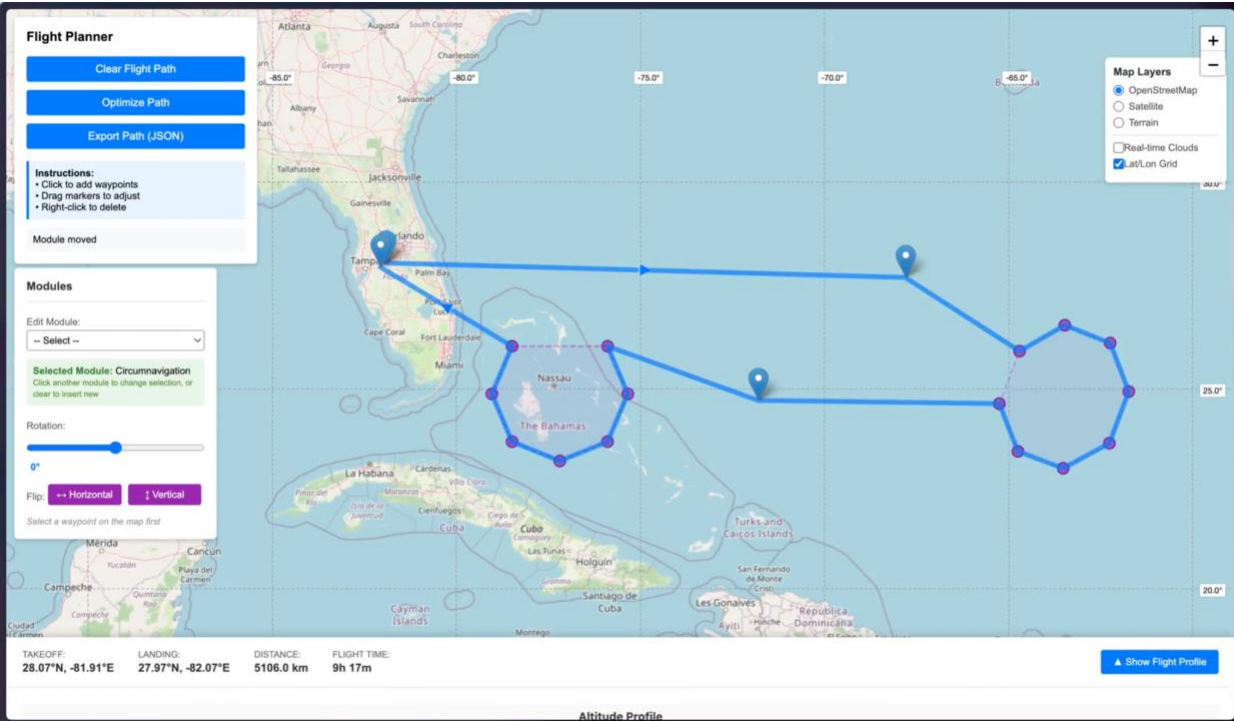
Awards and Recognition

Media Interactions and Request

Blog Posts and Social Media

Travel, Workshops, Conferences, and Meeting Reports

NOAA Testbeds semiannual review: A. Brammer and K. Musgrave presented at the semiannual review for the WPO Testbeds projects on March 16th. A. Brammer demonstrated a prototype flight planning tool for “Modernizing Flight Planning Software for Hurricane Reconnaissance Missions”, while K. Musgrave presented on “Artificial Intelligence Weather Prediction Models for Operational Tropical Cyclone Forecasting”. Both are active projects in the Hurricanes and Ocean Testbed (HOT).



Screenshot of the prototype flight planning tool being developed under WPO funding, highlighting the interactive interface and the ability to target multiple storms easily.

(POC: A. Brammer and K. Musgrave, CIRA, Alan.Brammer@colostate.edu, Kate.Musgrave@colostate.edu, Funding: WPO)

Satellite Book Club (SBC) Seminar: Y.J. Noh presented on ‘Enhancing Satellite Cloud Vertical Structure Data for Aviation’ at the SBC Seminar Series on 19 March 2026. The talk highlighted CIRA’s research to develop 3D satellite-derived cloud data using both traditional methods and AI/machine learning to enhance aviation weather awareness and flight safety, particularly in data-sparse regions such as Alaska. It also included case studies on aviation icing hazards.

(POC: Y.J. Noh, J. Haynes, C. White, C. Johnson, B. Daub, CIRA, yoo-jeong.noh@colostate.edu, Funding: JPSS and GOES)

Training and Education Activities

JPSS Teletraining this week: J. Torres (CIRA) led a VIIRS Flood Map teletraining session on 17 March 2026; five forecasters from NWS WFO - San Juan, PR, attended the session. (POC: Jorel Torres, CIRA, Jorel.Torres@colostate.edu, Funding: JPSS)

Updated JPSS Quick Guide: CIRA in collaboration with GINA and NOAA/NESDIS updated the *VIIRS Near-Constant Contrast (NCC) Quick Guide*. The reference material consists of new content that includes updated nighttime visible imagery case events and the latest resource links for users to access online. The guide has been republished online via CIRA VISIT webpage: <https://rammb2.cira.colostate.edu/guides/viirs-near-constant-contrast/>. (POC: Jorel Torres, CIRA, Jorel.Torres@colostate.edu, Funding: JPSS)

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

Other

K. Musgrave reviewed a manuscript for the *Bulletin of the American Meteorological Society*. (POC: K. Musgrave, CIRA, Kate.Musgrave@colostate.edu)