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

Tropical Cyclone Formation Probability (TCFP) Product: The TCFP displays the probability of tropical cyclone formation out to 48 hours over all ocean basins. The experimental version run at CIRA is now available for use and can be found at https://rammb-data.cira.colostate.edu/tcfp/. The operational version is located at https://www.ospo.noaa.gov/products/ocean/tropical/tcfp/. Future updates to the product include using additional predictors and extending the forecast out to 5-7 days.

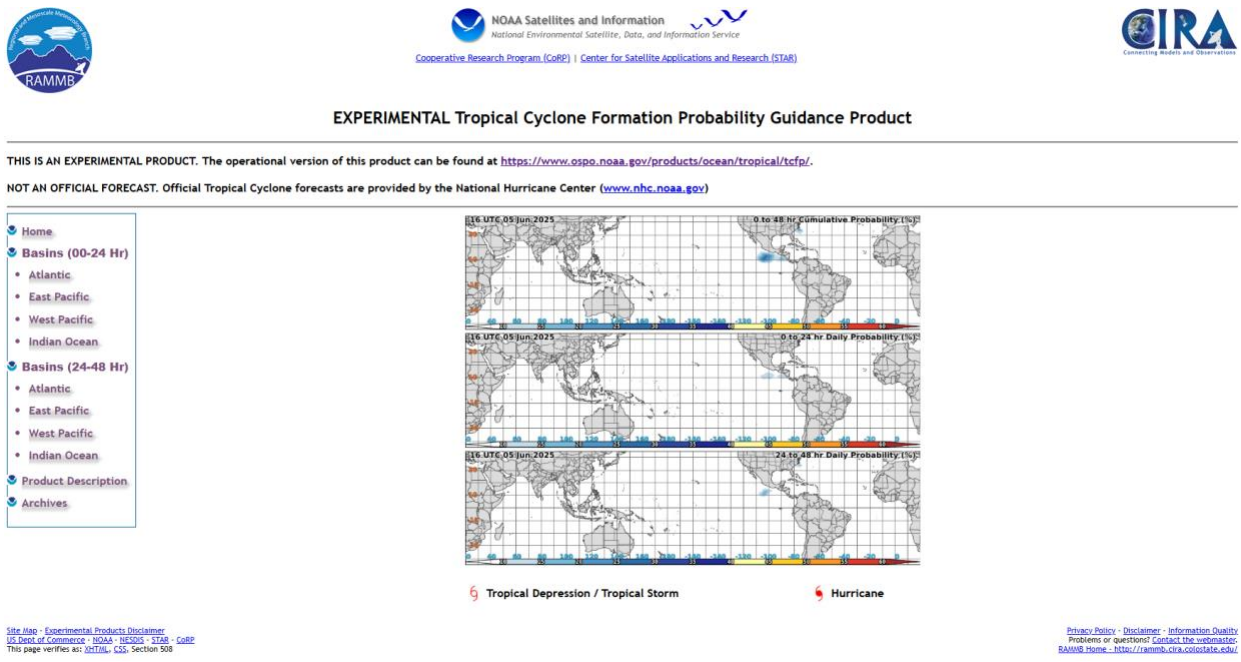


Figure: Homepage of CIRA's experimental Tropical Cyclone Formation Probability Product.

(POC: J. Dostalek, CIRA, Jack.Dostalek@colostate.edu C. Slocum NOAA STAR, Christopher.slocum@noaa.gov, Funding: DACS)

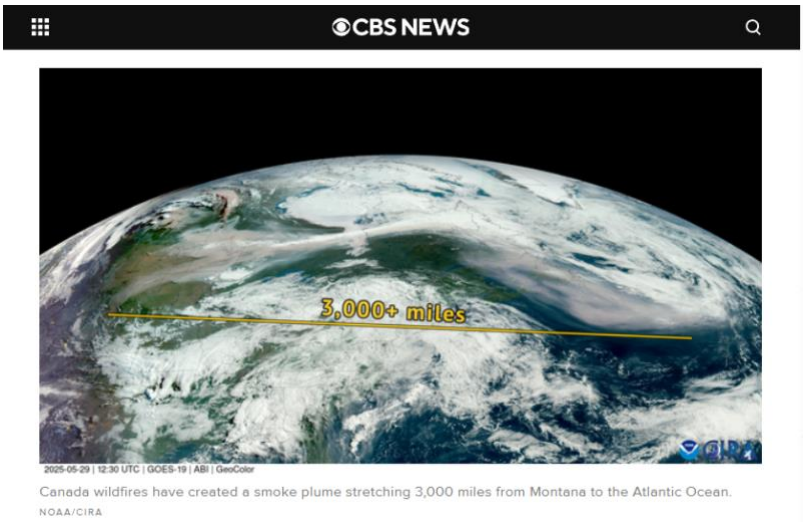
Publications (Citation: followed by a short **Summary:** (Why & so what)**, & detailed summary):**

Awards and Recognition

Media Interactions and Request

Imagery Production Team Imagery of Wildfires Smoke and Dust Featured in News Publications: In early June, wildfires in Canada continued to produce vast plumes of smoke while Saharan dust travels from the west coast of Africa. Satellite visuals created by the Imagery Production Team made available in CIRA's Satellite Library were used by several high-profile media outlets to highlight the wildfires and smoke. 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.

CBS News: "Maps show Canada wildfire smoke forecast for U.S. as dozens of blazes burn out of control". https://www.cbsnews.com/news/canada-wildfire-smoke-us-midwest-forecast-evacuations/



Fox Weather: "Saharan Dust muddies Florida skies before eyeing Gulf Coast, Texas". https://www.foxweather.com/weather-news/saharan-dust-florida-texas-gulf-coast-sky-air-quality

NOAA/NESDIS: "NOAA's Satellites Track Saharan Dust Blowing Across the Atlantic". https://www.nesdis.noaa.gov/news/noaas-satellites-track-saharan-dust-blowing-across-the-atlantic

Blog Posts and Social Media

Travel, Workshops, Conferences, and Meeting Reports

53rd Plenary of the Coordination Group for Meteorological Satellites (CGMS-53): As Co-Chair of the World Meteorological Organization (WMO)/CGMS Virtual Laboratory (VLab) for Education and Training in Satellite Meteorology, B. Connell virtually presented a report on previous year member activities at CGMS-53. The meeting occurred 3-5 June 2025 in Evian, France with hybrid options. In 2024, VLab partners organized over 100 training events that attracted more than 7,200 learners from all six WMO Regional Associations. Much of the training focused on the Early Warning for all training initiative and required collaborations across many organizations, programs, and training centers. Other topics presented included the use of AI in training and the use of Jupyter Notebooks to enhance display and manipulation of GEO and LEO data. We have an extensive reach that provides formal and informal education and continuing professional development opportunities for users of satellite imagery and products. (POC: B. Connell, CIRA, bernie.connell@colostate.edu, Funding: GOES-R and JPSS)

Training and Education activities

WMO-CGMS VLab/CIRA/NOAA Regional Focus Group: The WMO-CGMS VLab/CIRA/NOAA Regional Focus Group (RFG) of the Americas and the Caribbean meets virtually for monthly weather briefings. These sessions are coordinated by CIRA, the WPC International Desks, and the WMO Centers of Excellence in Barbados, Costa Rica, Brazil, and Argentina. The May session occurred on the 28th and the topics included a synoptic analysis of the Americas and the Caribbean, an update on SST, ENSO, MJO, precipitation, winds, & TPW, a Saharan dust plume crossing the Caribbean, potential for severe weather in northeast Mexico, and other satellite applications. There were 51 participants representing 20 countries. RFG sessions are recorded and can be viewed here: **https://rammb2.cira.colostate.edu/training/rmtc/focusgroup/**

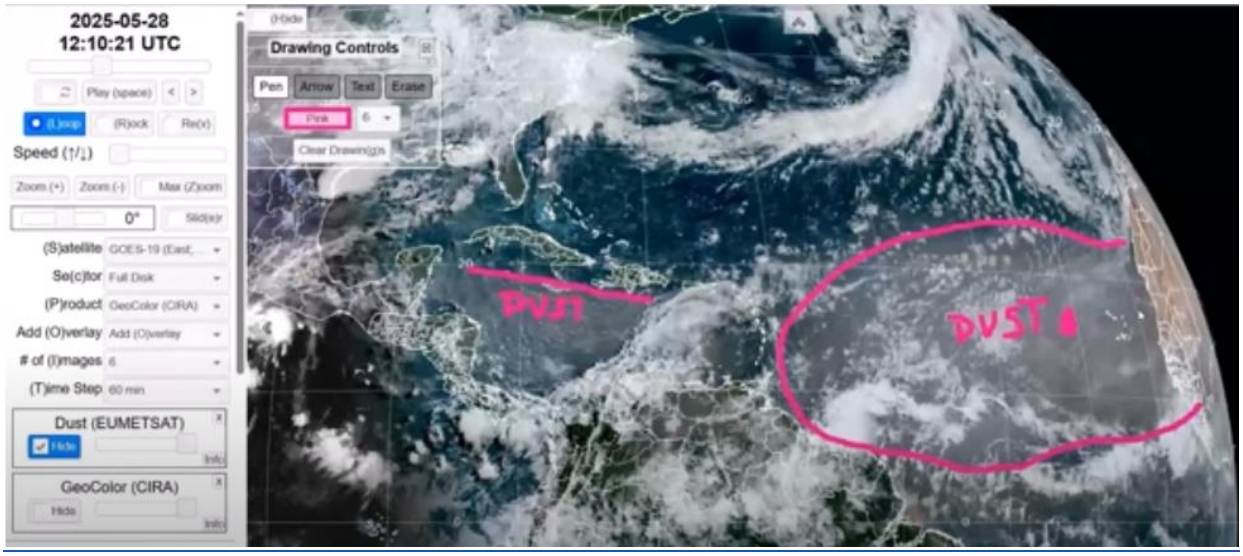


Figure: Screen grab from the May RFG session showing areas of dust in the Atlantic and the Caribbean on the GeoColor product.

(POC: B. Connell, E. Sanders, J. Galvez, CIRA, Bernie.Connell@colostate.edu, Funding: GOES, JPSS)

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

Other