

# Weekly Report

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

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Submitted by: Maranda Hutson  
Date of Submission: 16 Feb 2024  
Prepared by: CIRA and STAR contributors

## **Products and Applications**

**Updated statistical tropical cyclone forecast models delivered to the National Hurricane Center (NHC):** In preparation for the 2024 Hurricane Season, updated statistical and statistical-dynamical forecast models were delivered to NHC. The new programs were due to NHC by Feb 12 so they can be tested and implemented on the operational WCOSS computer by NCEP/NCO by May 15th, which is the start of the east Pacific Hurricane Season. Updates include retraining statistical-dynamical intensity models with expanded GOES, ocean and GFS analysis databases, a new consensus model for rapid intensification forecasting, and adding 2023 error statistics to NHC's wind speed probability model. (POCs: Mark DeMaria, Kate Musgrave, Alan Brammer, Jon Martinez, CIRA, [Mark.DeMaria@colostate.edu](mailto:Mark.DeMaria@colostate.edu), [Kate.Musgrave@colostate.edu](mailto:Kate.Musgrave@colostate.edu), [Alan.Brammer@colostate.edu](mailto:Alan.Brammer@colostate.edu), [Jon.Martinez@noaa.gov](mailto:Jon.Martinez@noaa.gov), funding: GOES, HFIP)

**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**

## **Training and Education activities**

**CIRA visit to NWS Cheyenne, WY:** Dan Bikos (CIRA), Jorel Torres (CIRA), and Bill Line (SMCD/APDB) visited the National Weather Service Weather Forecast Office in Cheyenne, WY on 15 Feb 2024. During the visit, they shared new and upcoming satellite products, tools and training resources being developed at CIRA. They also had a discussion with forecasters regarding their use of satellite information in operations, and their forecast challenges. (POCs: Dan Bikos and Jorel Torres, CIRA, Bill Line, STAR, [Dan.Bikos@colostate.edu](mailto:Dan.Bikos@colostate.edu),

[Jorel.Torres@colostate.edu](mailto:Jorel.Torres@colostate.edu), [bill.line@noaa.gov](mailto:bill.line@noaa.gov), funding: PDRA, JPSS, VISIT/SHyMet (submitted to SMCD report)

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

**Other**