

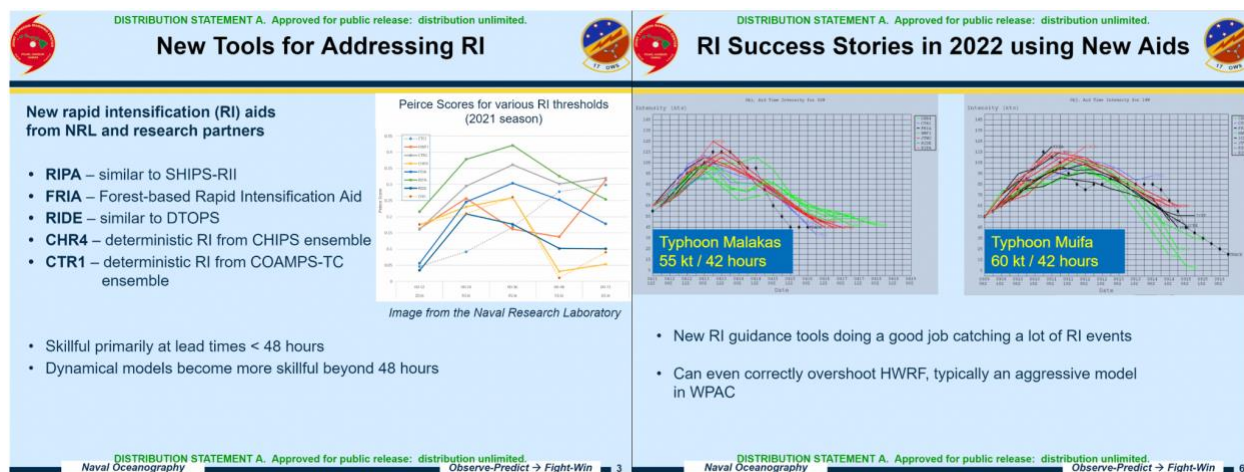
## Weekly Report

RAMMB / CIRA  
Cooperative Research Program Division (CoRP)  
STAR/NESDIS  
National Oceanic and Atmospheric Administration (NOAA)

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Prepared by: RAMMB/CIRA contributors  
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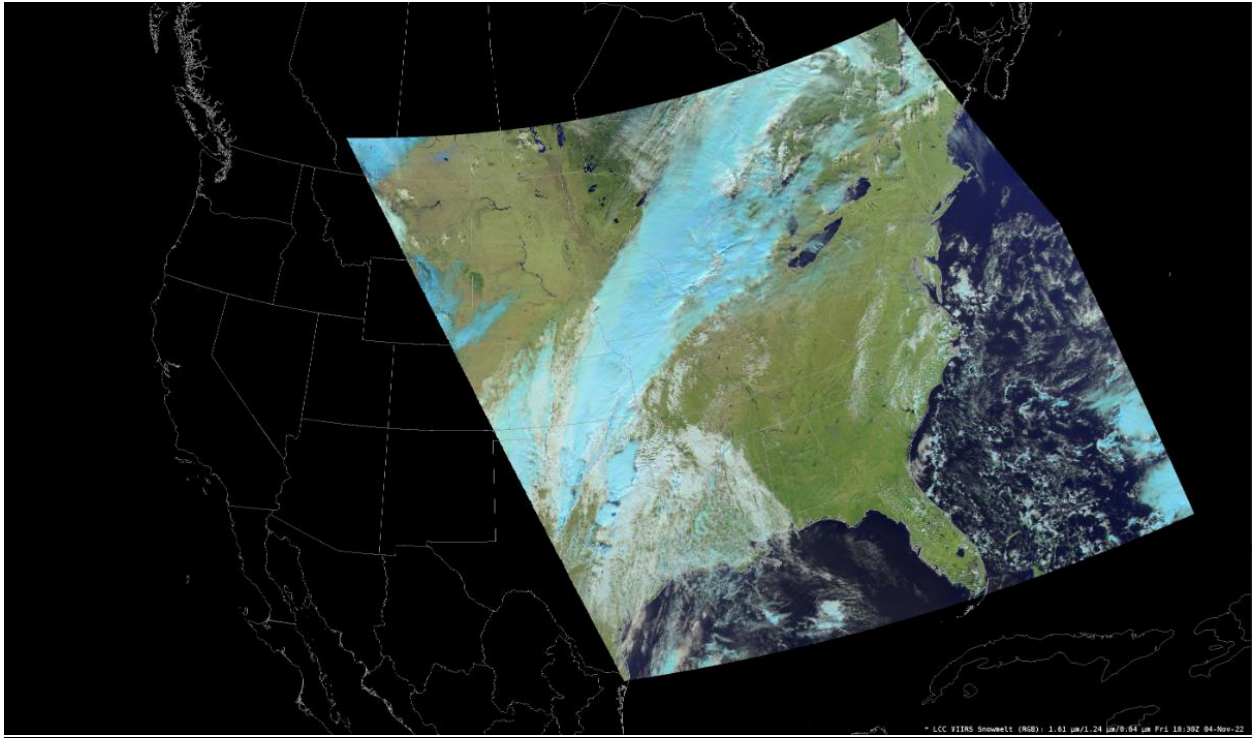
### Products and Applications

**Rapid Intensification Aids Highlighted:** The DoD Joint Typhoon Warning Center (JTWC) highlighted both the Rapid Intensification Prediction Aid (RIPA), Rapid Intensification Deterministic Ensemble (RIDE), and Forest-based Rapid Intensification Aid (FRIA) as skillful rapid intensification guidance available to JTWC during the NOAA Hurricane Forecast Improvement Program Annual Meeting. These models were developed by STAR/RAMMB scientists: J. Knaff developed and maintains RIPA and RIDE, and C. Slocum created FRIA. (POC: Chris Slocum, STAR, 970-491-2409, Christopher.Slocum@noaa.gov, Funding: PDRA)



*Caption: Slides from the Joint Typhoon Warning Center showing skill and performance for rapid intensification guidance. The skill and forecasts highlight the STAR/RAMMB Rapid Intensification Prediction Aid (RIPA), Rapid Intensification Deterministic Ensemble (RIDE), and Forest-based Rapid Intensification Aid (FRIA).*

**VIIRS Imagery at NWS/FDTD:** Bill Line (STAR) helped the NWS/Forecast Decision Training Division to install real-time CONUS-sector VIIRS Imagery and Imagery RGBs in the FDTD Cloud AWIPS. The VIIRS imagery originates from UW/SSEC Direct Broadcast, and is reprocessed and delivered by CIRA for display in AWIPS as single-band and multispectral imagery. The VIIRS RGB recipes were developed at CIRA. (POC: B. Line, CoRP/RAMMB, J. Torres and C. Seaman, CIRA, B. Motta and J. Jordan, NWS, [bill.line@noaa.gov](mailto:bill.line@noaa.gov)) Funding: PDRA



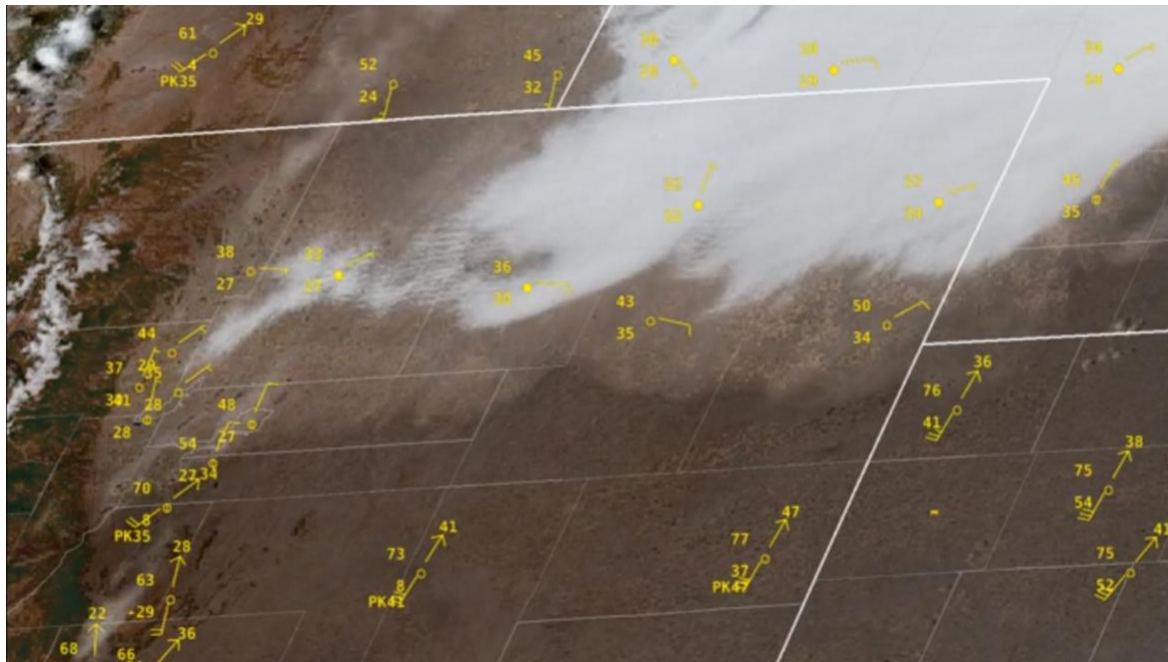
*Figure: VIIRS Snowmelt RGB viewed from the NWS/FDTD Cloud AWIPS.*

### **Awards and Recognition**

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

### **Blog Posts and Social Media**

**New Satellite Liaison Blog Post:** Bill Line (STAR) published a blog post titled “Colorado Cold Front”. The post provides strategies for leveraging satellite imagery in AWIPS to visualize fronts. See Figure below. The link to the post can be found [here](#). (POC: B. Line, CoRP/RAMMB, [bill.line@noaa.gov](mailto:bill.line@noaa.gov)) Funding: PDRA



*Figure: GOES-East Geocolor+IR blended imagery (from AWIPS) captures clouds, aerosols, and the position of an W-E oriented cold front across eastern Colorado.*

### **Travel, Workshops, Conferences, and Meeting Reports**

**Hurricane and Ocean Testbed technical hackathon:** Alan Brammer and Jonathon Martinez participated in the first in-person Hurricane and Ocean Testbed hackathon at the National Hurricane Center (NHC), Miami. Research Scientists and NHC forecasters collaborated in the William Lapenta Lab at NHC during a real-time P-3 research flight into Hurricane Lisa. New ways to visualize the real-time data from the aircraft in AWIPs2 were demonstrated and prototyped, with collaborative interactions between forecasters and scientists. (POC: A. Brammer, alan.brammer@colostate.edu Funding: HFIP)

### **Training and Education activities**

**Satellite Book Club Seminar:** Bill Line (STAR) presented “Applications of Satellite Imagery During Winter Weather Scenarios” for this week’s Satellite Book Club (SBC) Seminar Series. The presentation shared best practices for leveraging GOES and JPSS imagery and products in operations during the winter. The SBC convenes weekly to provide an opportunity for scientists throughout the NOAA satellite domain to share a topic of interest, followed by an open discussion. There were over 70 entities in attendance. A recording for the webinar can be found [here](#). (POC: B. Line, CoRP/RAMMB, [bill.line@noaa.gov](mailto:bill.line@noaa.gov)) Funding: PDRA

