

# CICS-MD Proving Ground & Training Center

Patrick Meyers, Scott Rudlosky,  
Mark Sannutti, Shenjian Su, Feng Zhang, and Partners



# Lab Overview - Facility



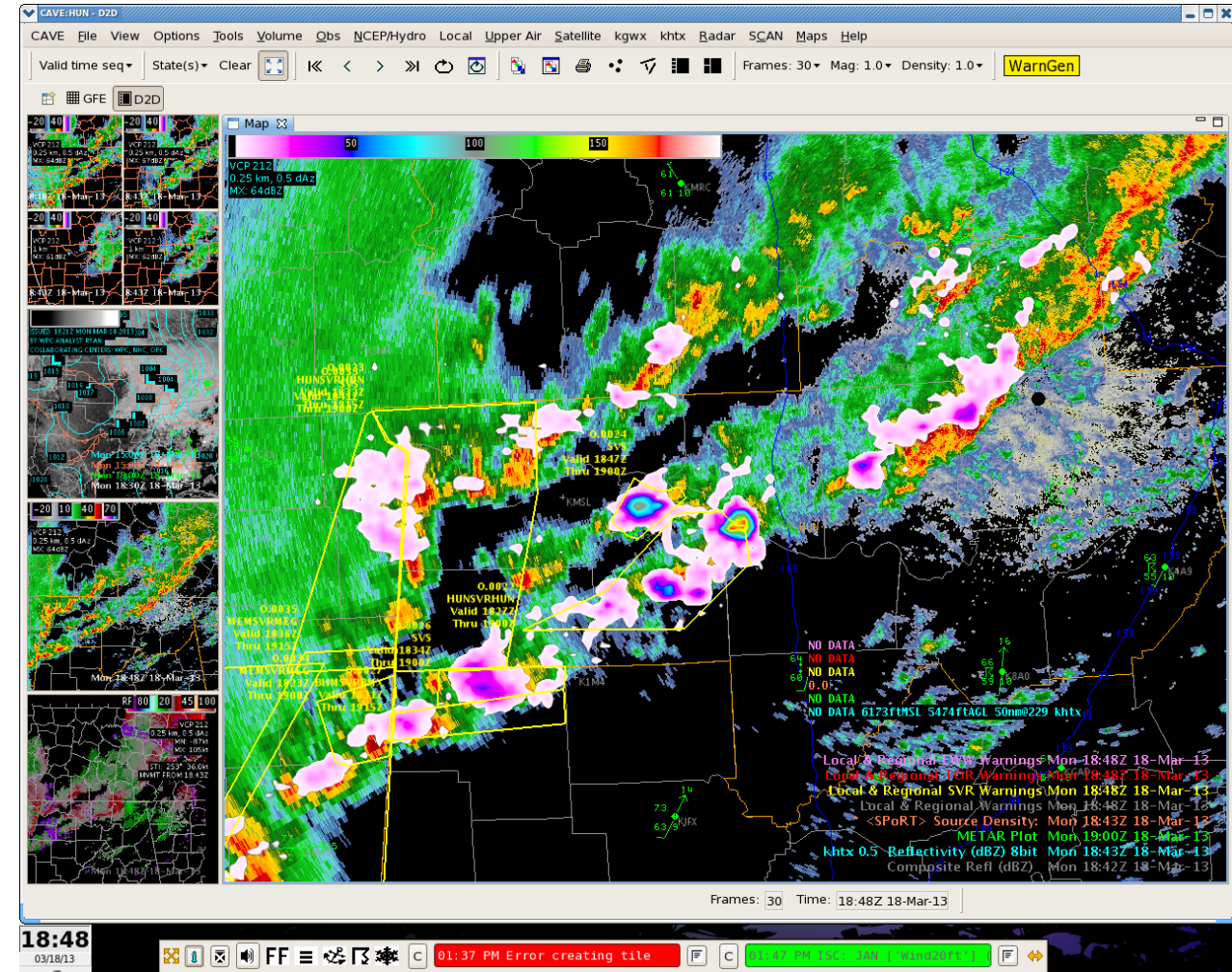
- 4 AWIPS Work Stations
  - Typically 1 release behind ops
- Roof-mounted SBN dish
- 2 dedicated servers
- Convenient access to NCWCP
  - Low Security!!
- Supported in-part by:
  - GOES-R / GLM
  - JPSS PGRR

# Lab Overview – Personnel

- Patrick Meyers
  - CICS Lead
- Scott Rudlosky
  - NOAA Lead
- Mark Sannutti
  - AWIPS management
- Shenjian Su
  - IT Infrastructure
- Feng Zhang
  - ISATSS

# Advanced Weather Interactive Processing System 2 (AWIPS)

- Primary software used by NWS Weather Forecast Offices
- Users can display satellite, ground observations, radar, NWP, etc.
- Customizable localization to view user-requested datasets
- Transition for National Centers (i.e. OPC, WPC, NHC, SPC) is ongoing in phased rollout



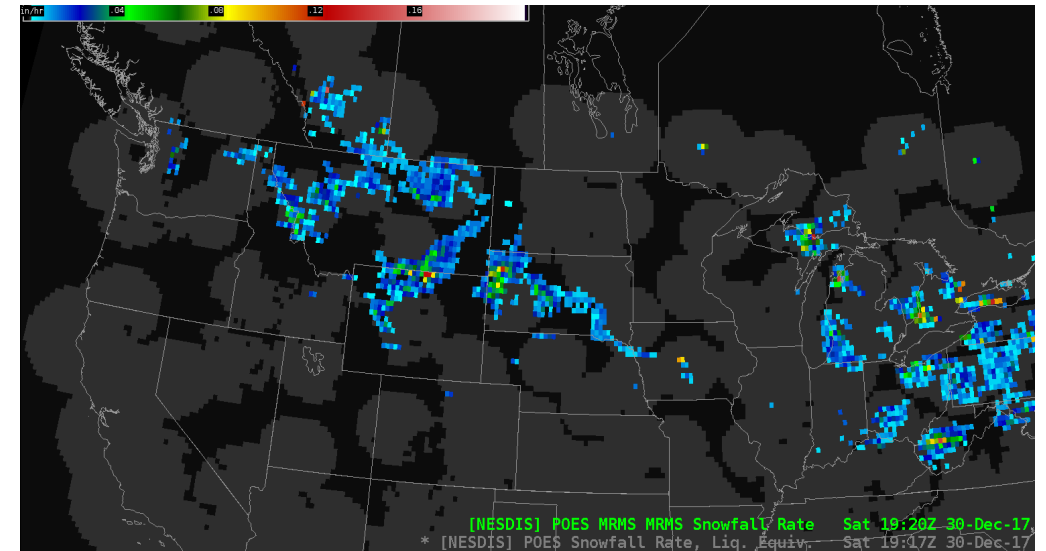
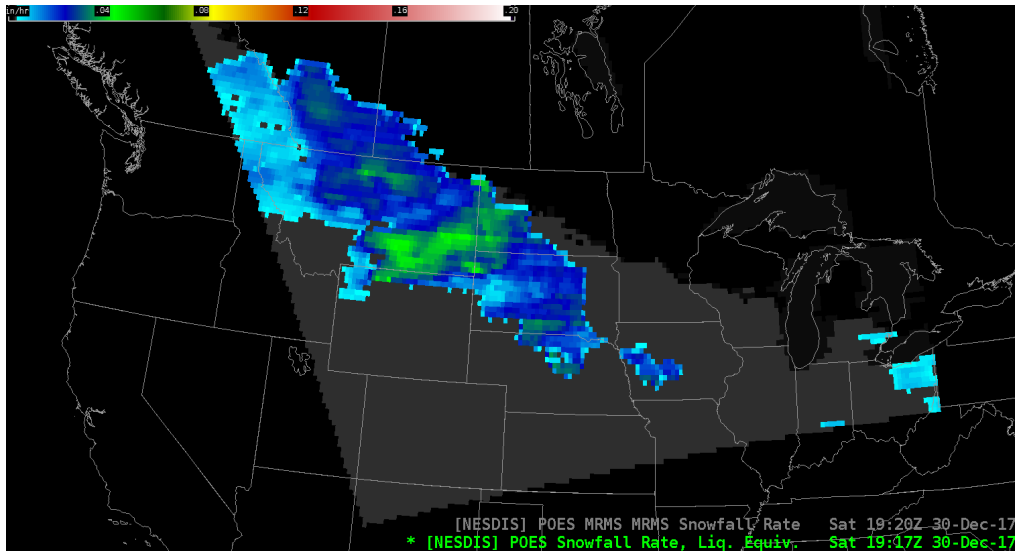


# PGTC Mission

- Provide product developers with a place to view their data in AWIPS
- Identify potential improvements for current satellite products
- Facilitate pathway of incorporating products into baseline AWIPS distribution (if users push for it)
- Training students to use NWS software prior to joining the workforce

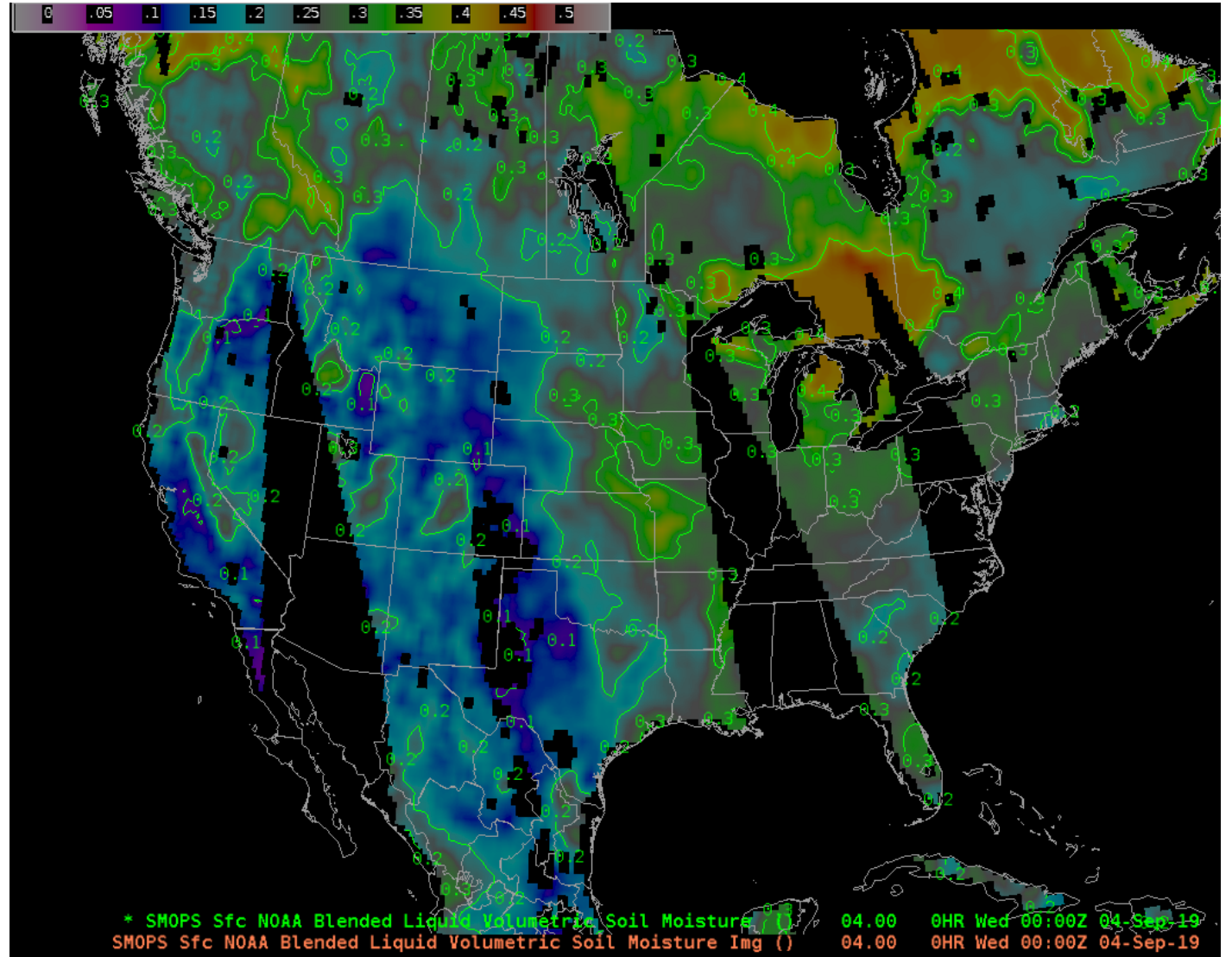
# Testing by Product Algorithm Developers

- Facility for algorithm scientists from NCWCP and DC Metro area to test display and functionality of their JPSS & GOES Products
- Examples of collaborations with SPoRT:
  - Dr. Huan Meng's JPSS Snowfall Rate Retrieval
  - NUCAPS Testing/Training for HWT

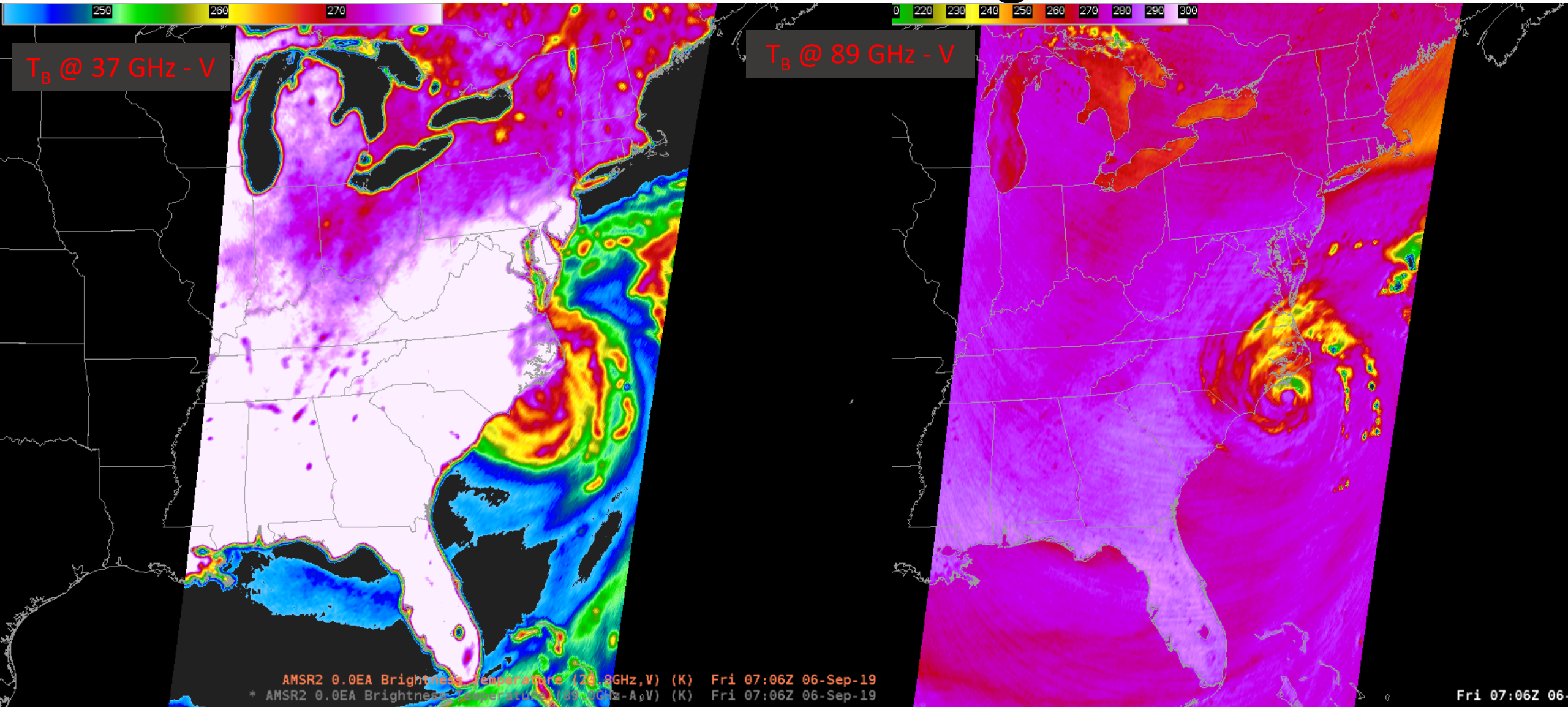


# Soil Moisture Product System (SMOPS)

- Work with science team to optimize display settings
  - Culling product suite
  - Time parameters
  - Colorbar / range

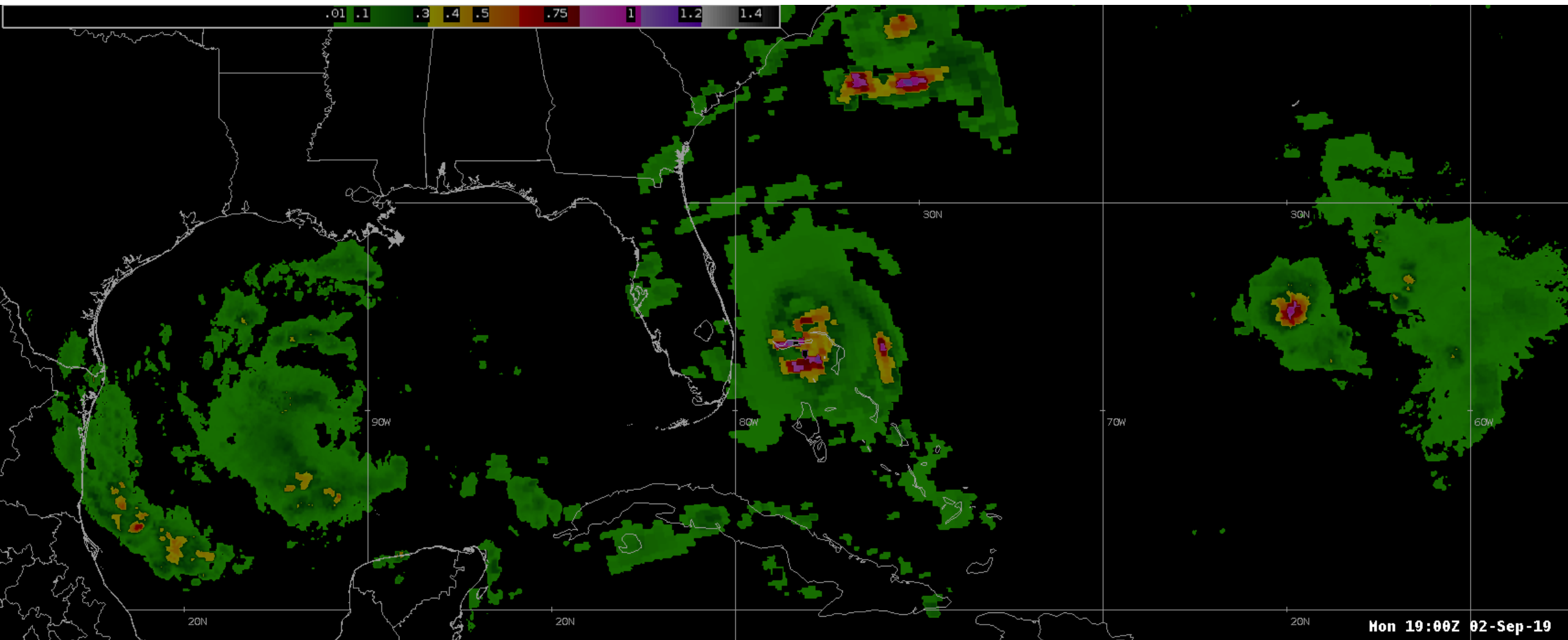


# Advanced Microwave Scanning Radiometer 2





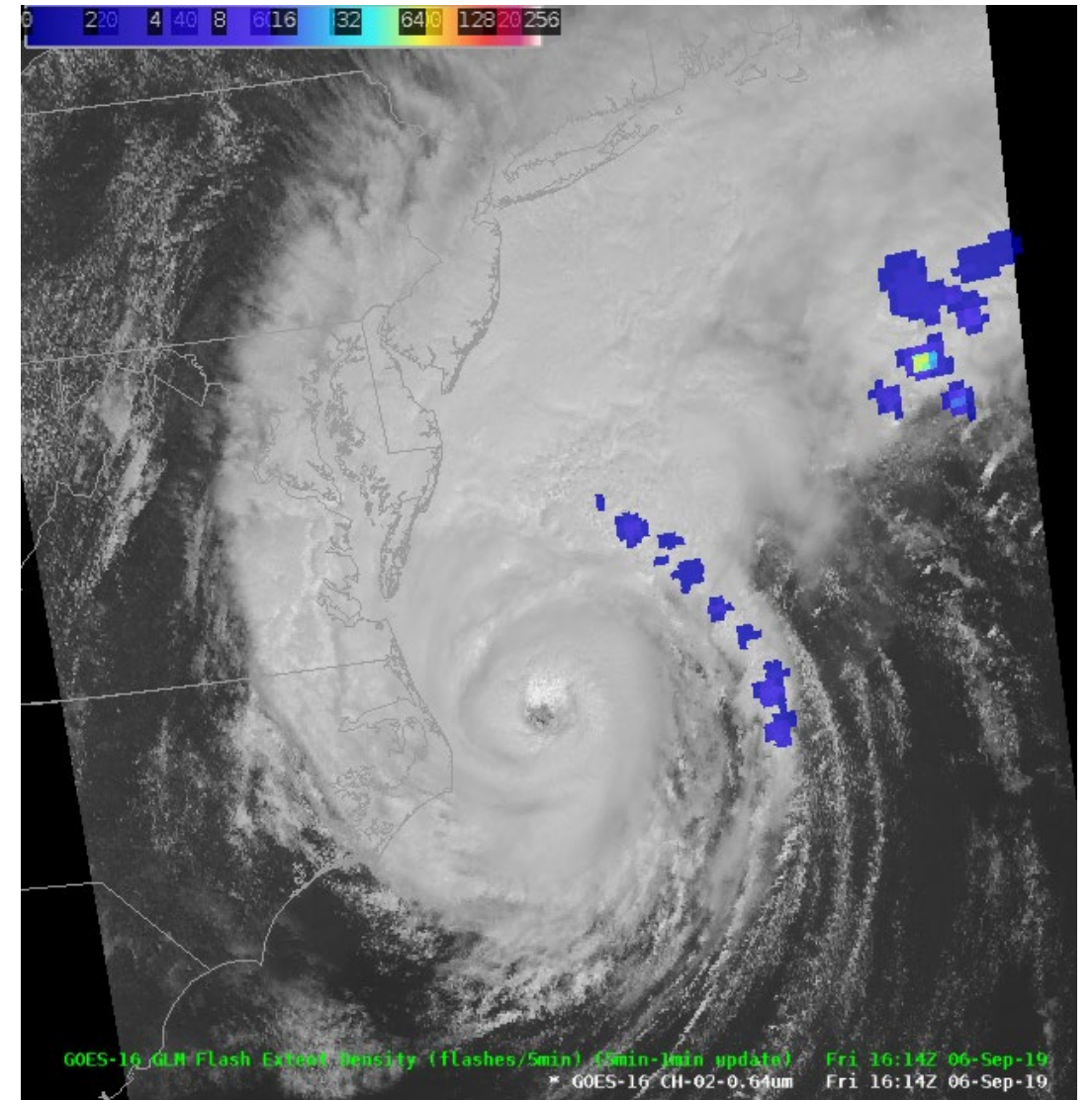
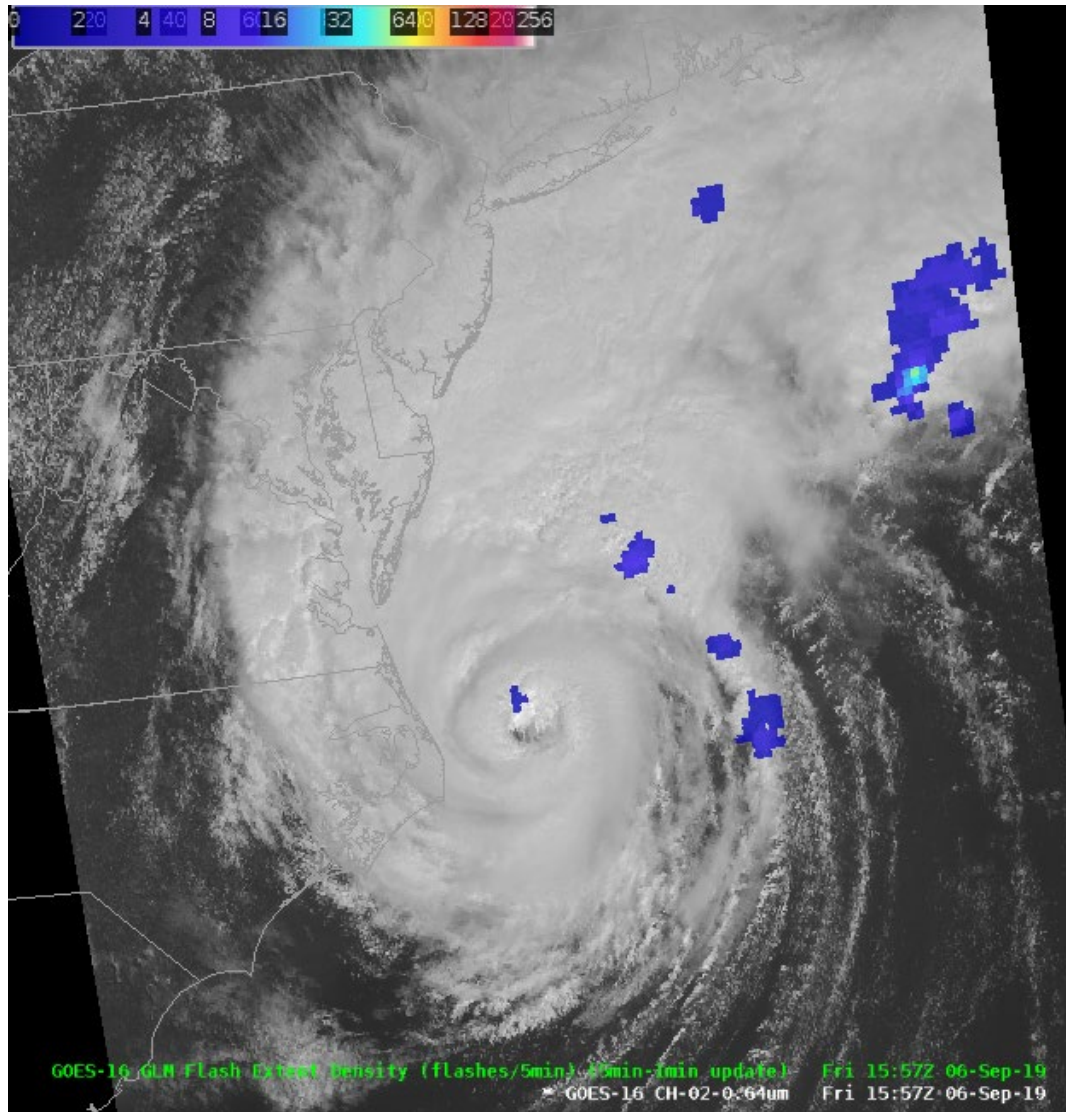
# CMORPH2 – Hurricane Dorian



# Geostationary Lightning Mapper

- Implement and test TOWR-S updates for gridded GLM products
- Provide feedback before AWIPS rollout
- Note: For GLM display of gridded products, please consider Eric Bruning's GLM-tools toolkit to create consistent products for:
  - Flash Extent Density
  - Total Optical Energy
  - Average Flash Area

# GLM Observations in Hurricane Dorian



# Looking to the future of the CISESS Proving Ground and Training Center

- Incorporate CISESS experimental products upon request
- Fire & Smoke scenario-based training for JPSS & GOES-R
- University of Maryland student teaching / training
- Expand distribution of CISESS products through NWS Regional offices
- Satellite Ingest & Display Evaluation (SIDE) Project action items
  - Meeting held with AWIPS developers, product developers, and national center representatives
  - Identified AWIPS bottlenecks & limitations
  - CISESS will help create a variable resolution fixed grid for LEO data



# Looking to the future of the CISESS Proving Ground and Training Center

