# The NASA Short-term Prediction Research and Transition (SPoRT) Center

## GOES-R Proving Ground Update

### 09 January, 2012

Contributions from:
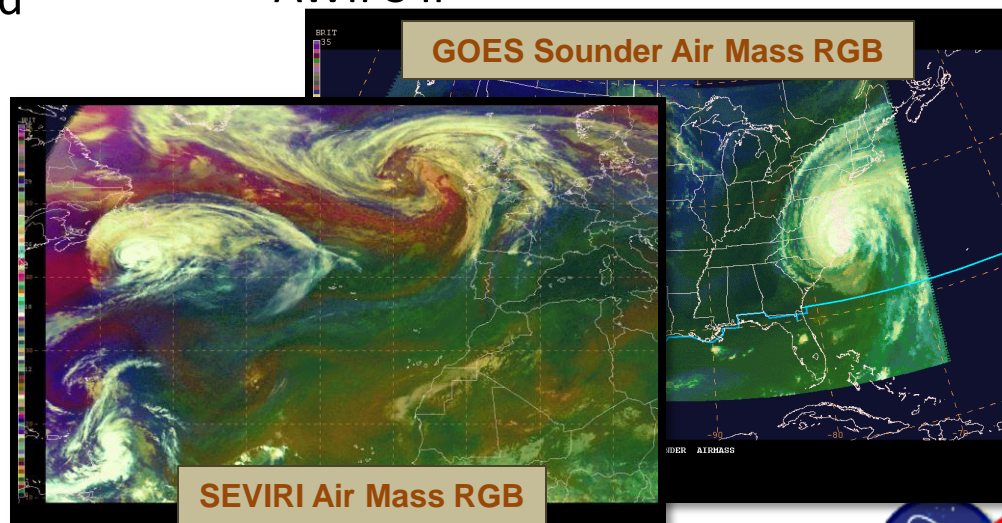Gary Jedlovec, Kevin Fuell, Geoffrey Stano, Matt Smith, Andrew Molthan

# SPoRT

**transitioning unique NASA data and research technologies to operations**
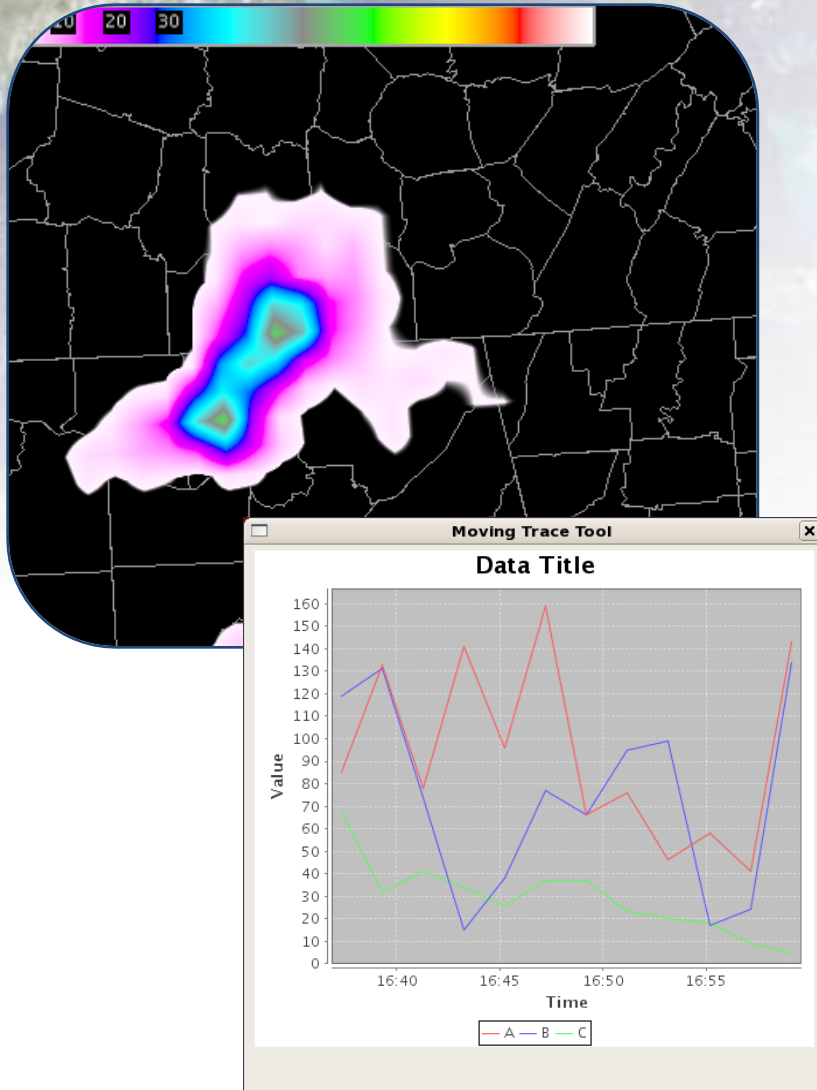
NASA

# GOES-R PG Visiting Scientist Activities

- Planned visits
  - To AWC and SPC:
    Total lightning in operations
  - To CIRA:
    AWIPS II plugins, PG product suite collaborations
  - To OPC/HPC/SAB:
    RGB applications, training, and display in AWIPS II
  - To NHC:
    RGB applications, integration, training, and sources
  - To EUMETSAT:
    RGB usage at high latitudes, workshop

- Planned host visits
  - From CIRA:
    Collaborations in Tropical Proving Ground, product fusion and plugins
  - From Michael Folmer:
    RGB module for OPC/HPC/SAB, AWIPS II



GOES Sounder Air Mass RGB

SEVIRI Air Mass RGB

# P-GLM Continued



## AWIPS II Development

### Continuing to improve utility
- Will be ready for 2012 Spring Program
- One plug-in for all products / networks

### New AWIPS II only feature
- Forecaster cell tracking tool
- Manual use
- Creates time series trend of lightning data
- Major request during forecaster evaluations

**transitioning unique NASA data and research technologies to operations**

# P-GLM - Updating Training



Old graphics

## Upgrading Graphics
- Original used GRADS – Early in PGLM development
- Upgrading all cases to use AWIPS II

## Accessibility
- Will replace current PGLM module
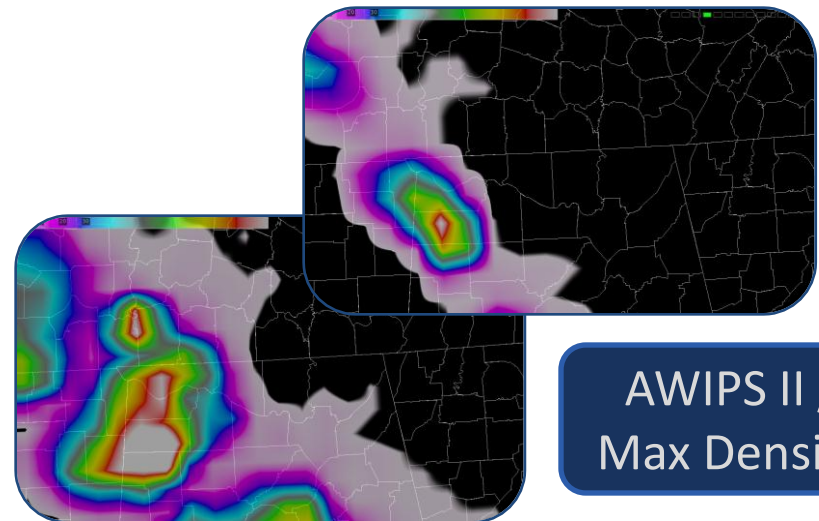- Will be available on Learning Management System
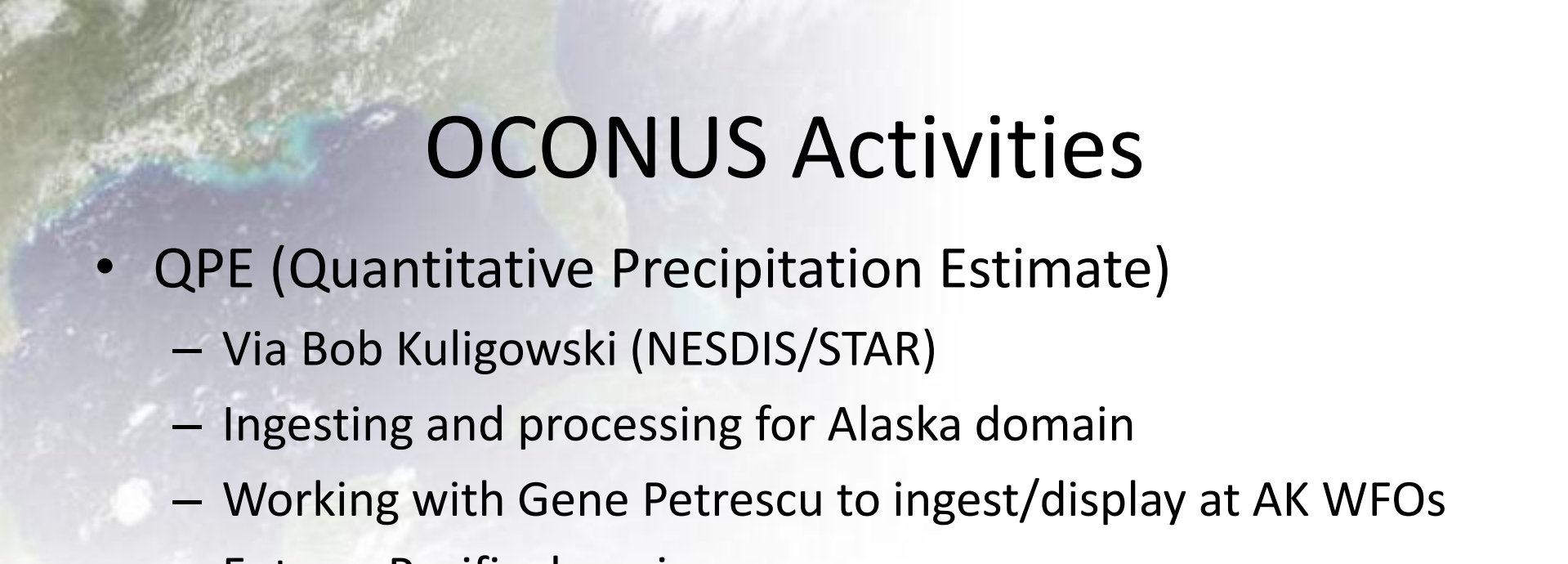
## New Products / Cases
- Discuss flash initiation and max density
- Adding new events for review

## AWIPS II
- Discuss available AWIPS II features
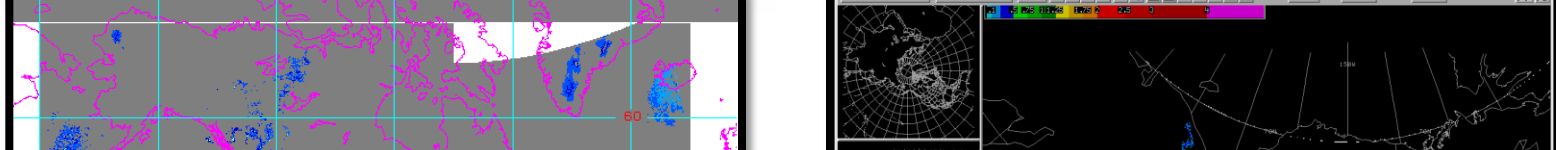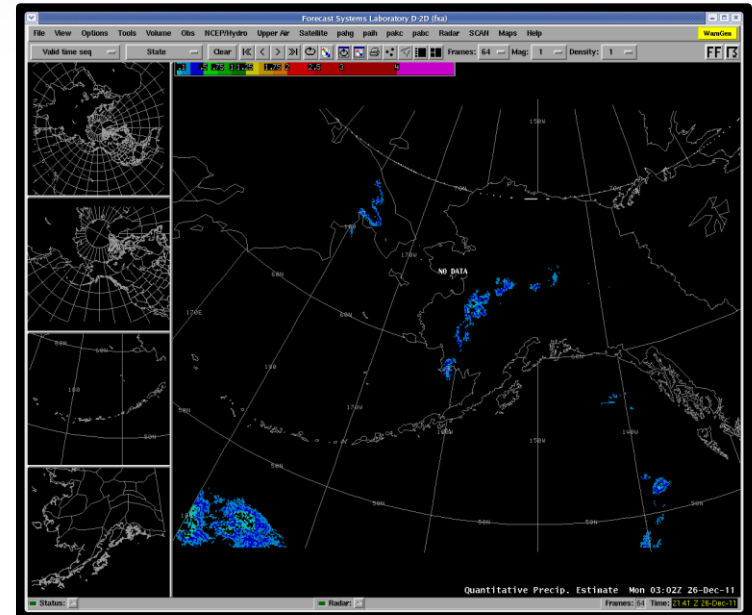- E.G. Tracking tool, interpolation toggling



AWIPS II / Max Density

# OCONUS Activities

- QPE (Quantitative Precipitation Estimate)
  - Via Bob Kuligowski (NESDIS/STAR)
  - Ingesting and processing for Alaska domain
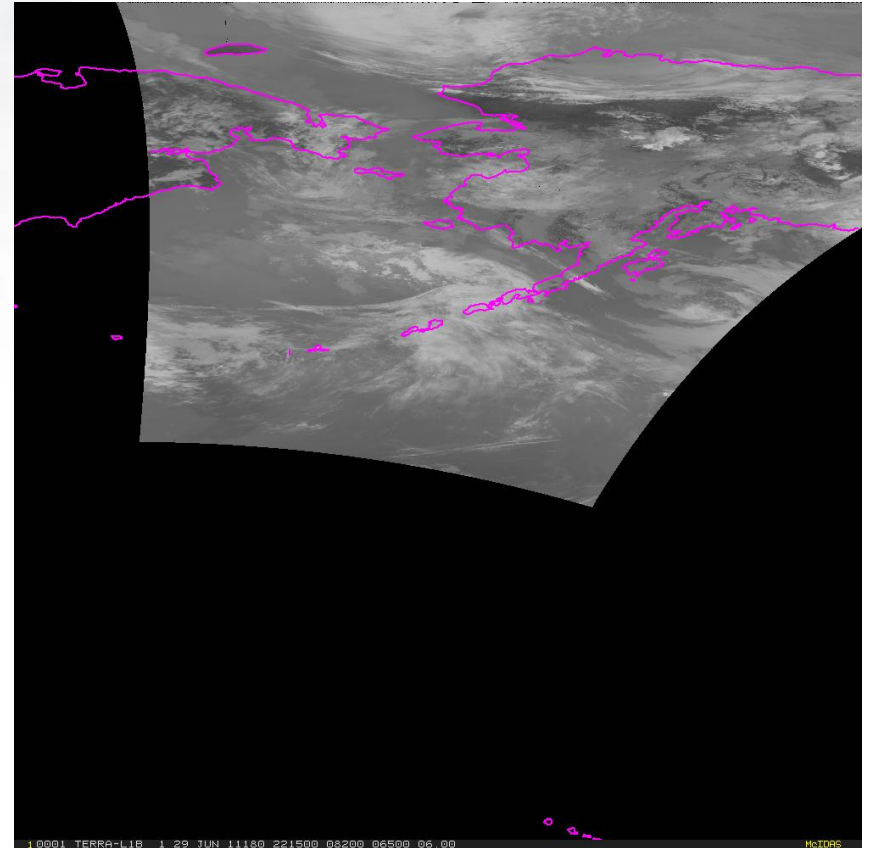  - Working with Gene Petrescu to ingest/display at AK WFOs
  - Future: Pacific domain

# OCONUS Activities

MODIS data access for AK and HI

- University of Alaska Fairbanks (GINA)
  - Gilmore Creek data source made accessible via ADDE server
  - Aqua: Global (~90 min. late)
  - Terra: Line of Sight only (NRT)
- NASA/LANCE: 2$^{nd}$ source of data, help fill gaps (e.g. Terra near HI)
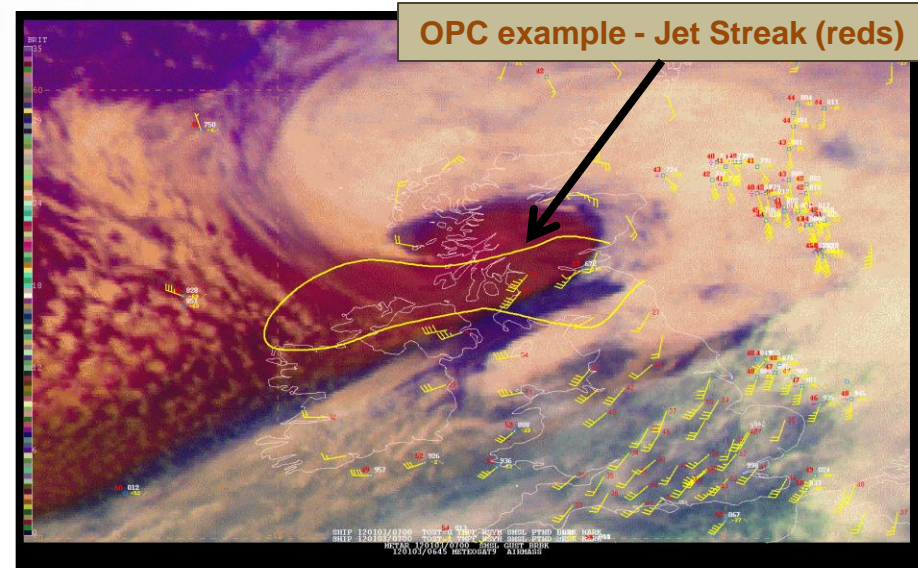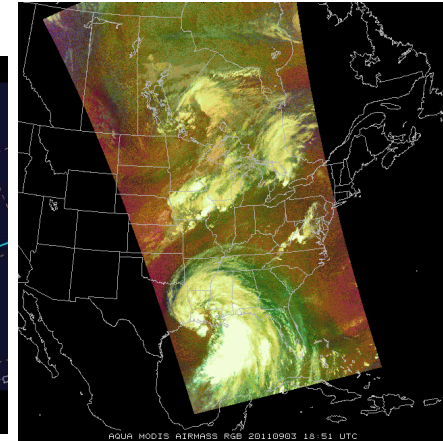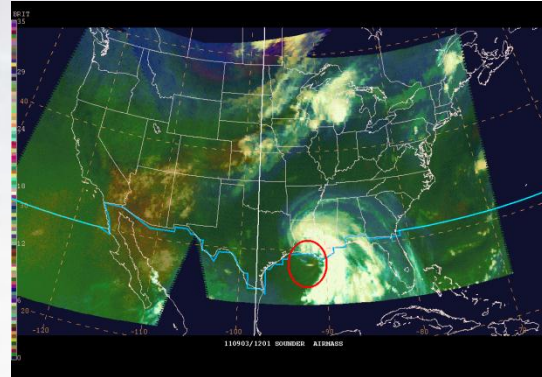- Working on data flow and processing, product list (potential **Hybrid** and **RGBs**)



Terra swath over Alaska. It's been remapped for use in a KML/KMZ file (Rectilinear projection)

# RGB Imagery

- NHC was able to display both the GOES Sounder and SEVIRI RGBs in N-AWIPS; looking to add MODIS





- Continued use at National Center From Folmer: OPC applied SEVIRI Air Mass RGB in high wind event over N. Atlantic ([see blog post](#))

  - Michael has moved from the ftp data feed to the LDM feed for SPoRT RGB products to improve latency



OPC example - Jet Streak (reds)

**transitioning unique NASA data and research technologies to operations**

# Looking Forward

- Continued development of total lightning training and AWIPS II tools

- Working with Folmer to provide AWG's CI product for use in OPC

- Additional PG products for NHC in collaboration with CIRA

- OCONUS delivery of QPE and MODIS products

**SP⊕RT**

**transitioning unique NASA data and research technologies to operations**