

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

GOES-R Proving Ground Update

09 January, 2012

Contributions from:

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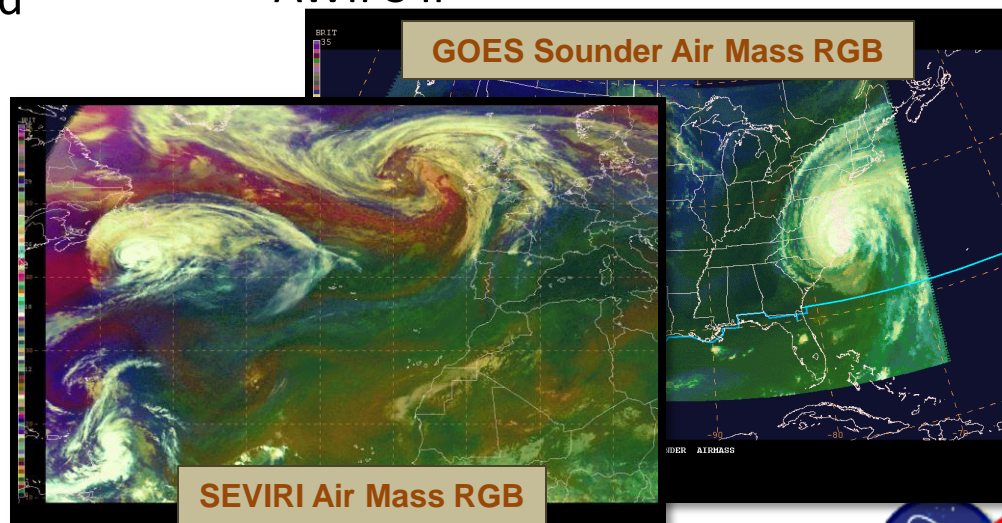


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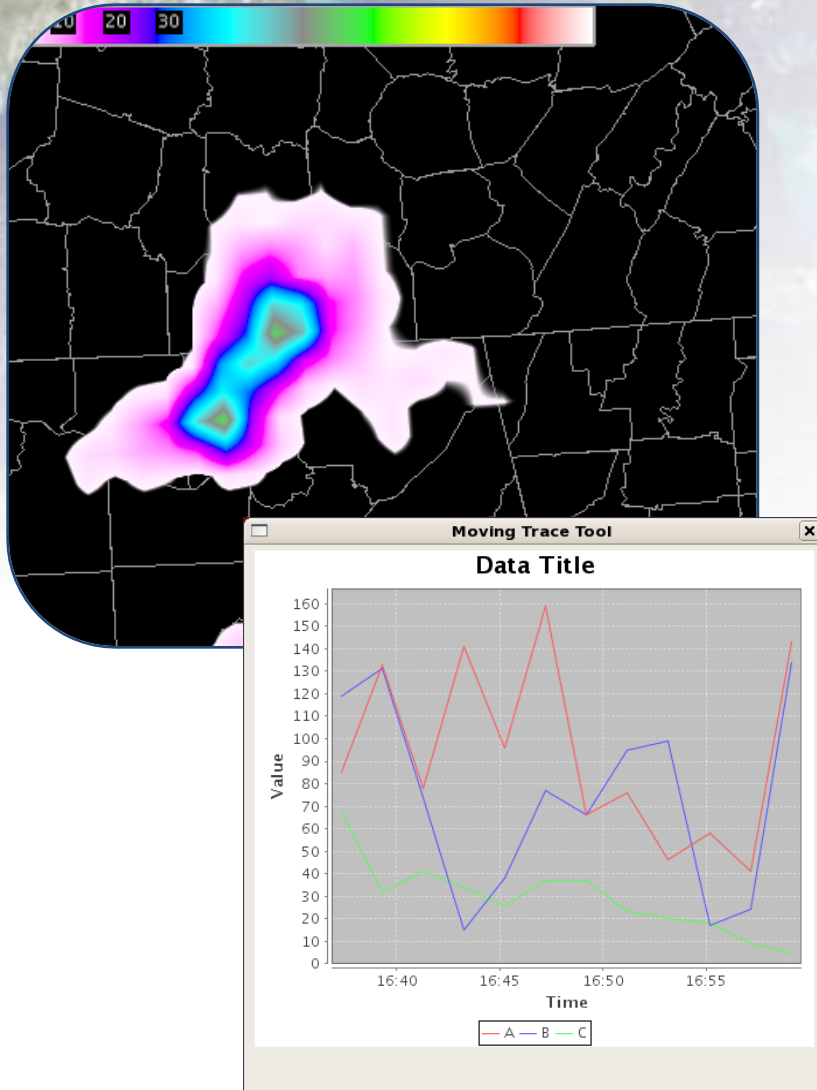
GOES-R PG Visiting Scientist Activities

- 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



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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

P-GLM - Updating Training

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

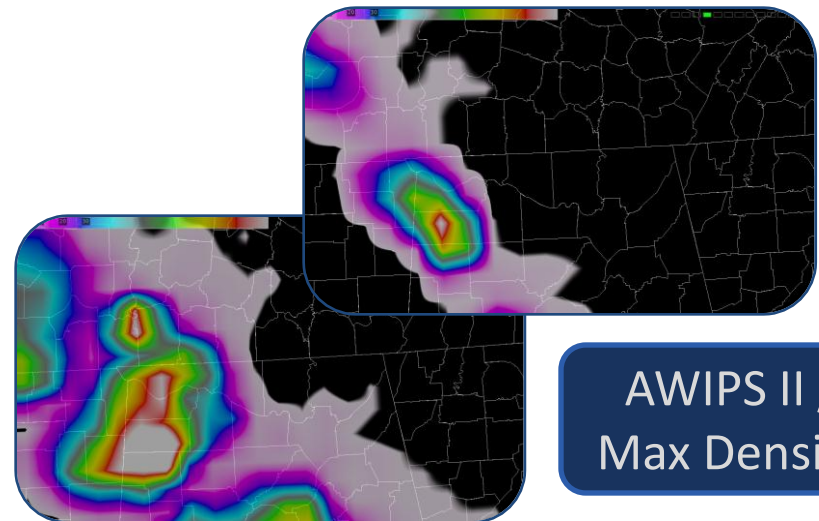
Old
graphics

New Products / Cases

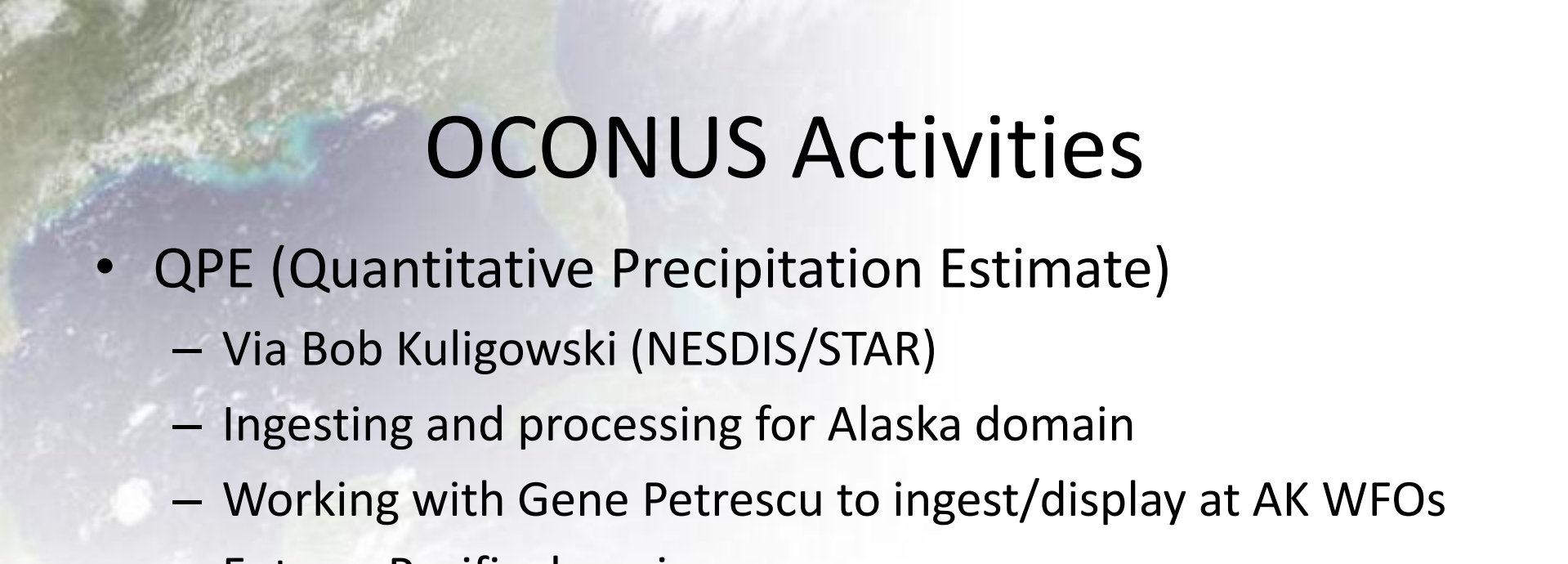
- Discuss flash initiation and max density
- Adding new events for review

AWIPS II

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

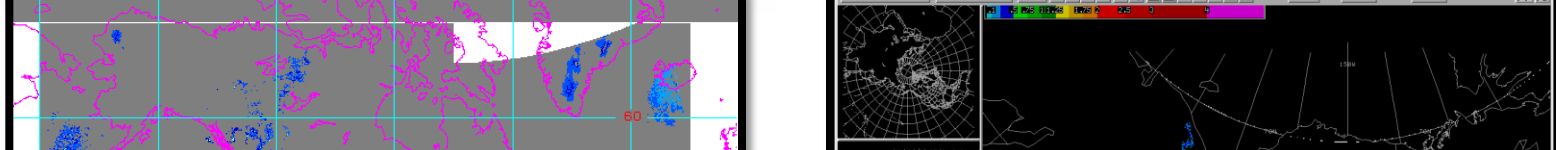


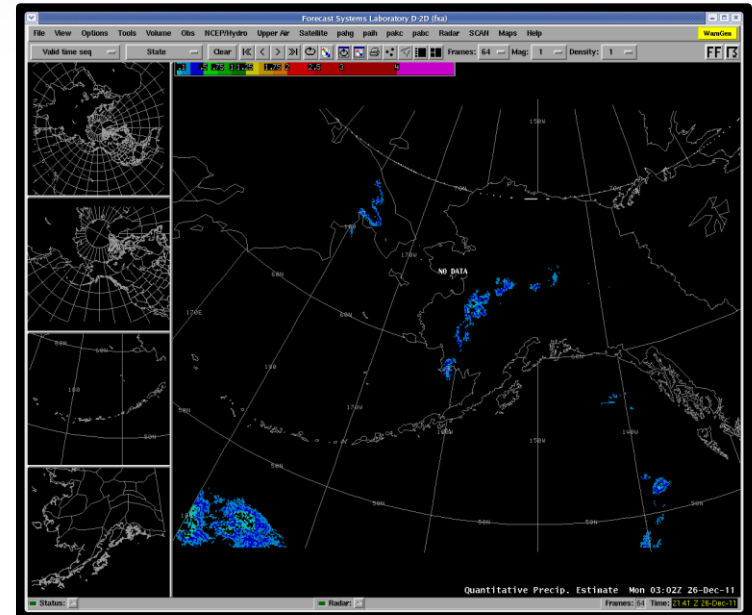
AWIPS II /
Max Density

A satellite image of Alaska and the surrounding Arctic region, showing land, ice, and water. The image is used as a background for the presentation slide.

OCNUS 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

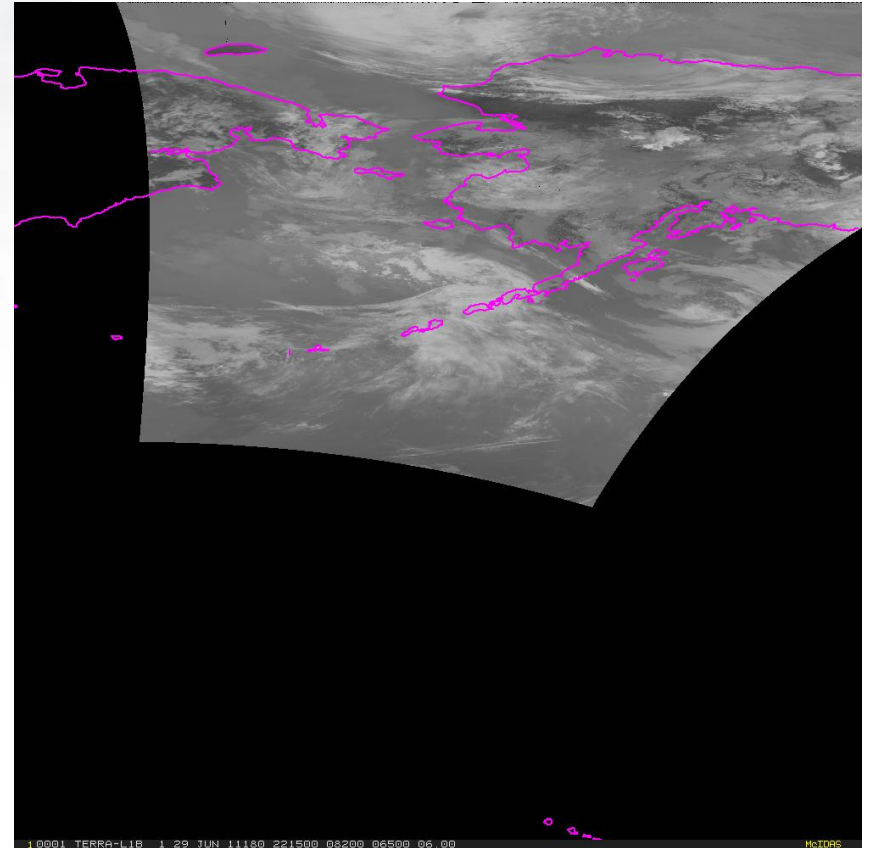
- Future: Pacific domain
- 
- The left screenshot displays a map of the Pacific domain with a grid overlay. The map shows various data points, including a large blue area in the central Pacific and a smaller blue area in the western Pacific. The grid lines are labeled with coordinates: 150, 120, 90, 60, 30, 0, and -30. The bottom of the map shows a status bar with the text: "10001 G-11 IMG 4 2 NOV 01306 201500 07047 07726 08 00 MCIDRS".
- The right screenshot shows a screenshot of the Forecast Systems Laboratory D-2D (fsl) software interface. The interface includes a menu bar (File, View, Options, Tools, Volume, Oles, NCEP/Hydro, Upper Air, Satellite, pubg, path, pabc, pubc, Radar, SCAN, Maps, Help) and a toolbar. The main display area shows a map of the Pacific domain with a grid overlay. The map shows various data points, including a large blue area in the central Pacific and a smaller blue area in the western Pacific. The bottom of the map shows a status bar with the text: "Quantitative Precip. Estimate Mon 03:02Z 26-Dec-11".



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: 2nd source of data, help fill gaps (e.g. Terra near HI)
- Working on data flow and processing, product list (potential **Hybrid** and **RGBs**)

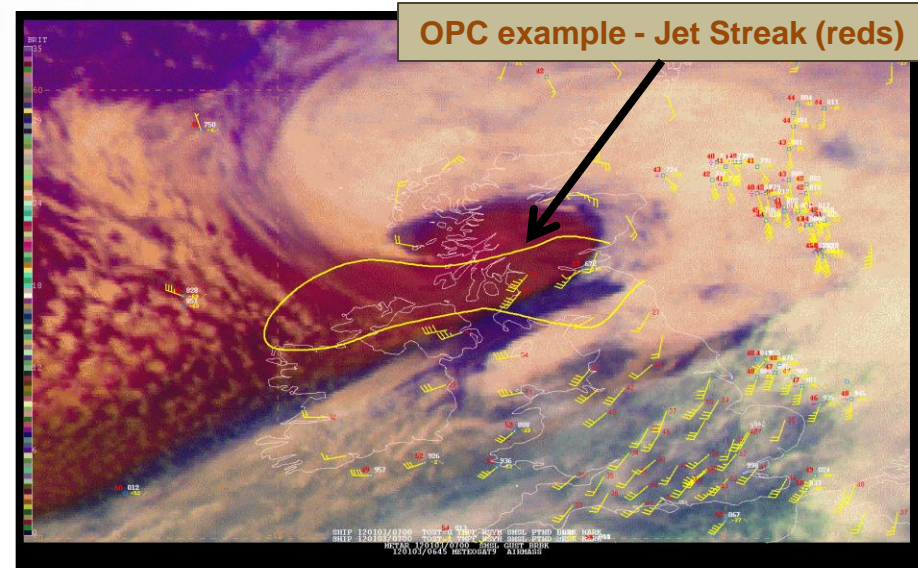
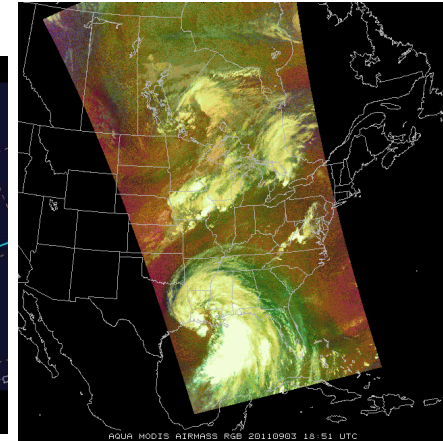
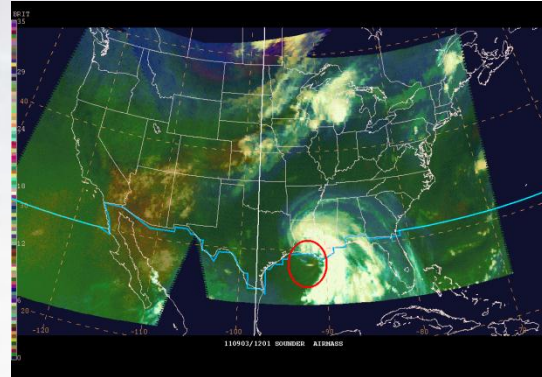


Terra swath over Alaska. It's been remapped for use in a KML/KMZ file (Rectilinear projection)

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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



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



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