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
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
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

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
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
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\textsuperscript{nd} source of data, help fill gaps (e.g. Terra near HI)
- Working on data flow and processing, product list (potential Hybrid and RGBs)
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