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

GOES-R Proving Ground Update

9 July, 2012

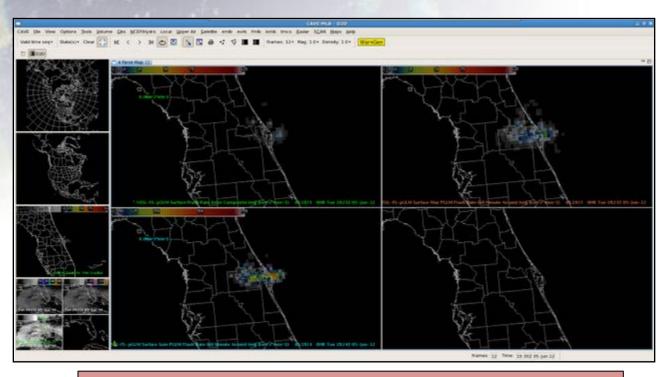
Contributions from:

Gary Jedlovec, Kevin Fuell, Geoffrey Stano, Matt Smith, Andrew Molthan





PGLM at the Spring Program



Sample imagery from the HWT's Spring Program from the Kennedy Space Center network

- 3rd year of use
- AWIPS II display
- Relatively quiet this year
- SPoRT's AWIPS II plug-in will address some feedback



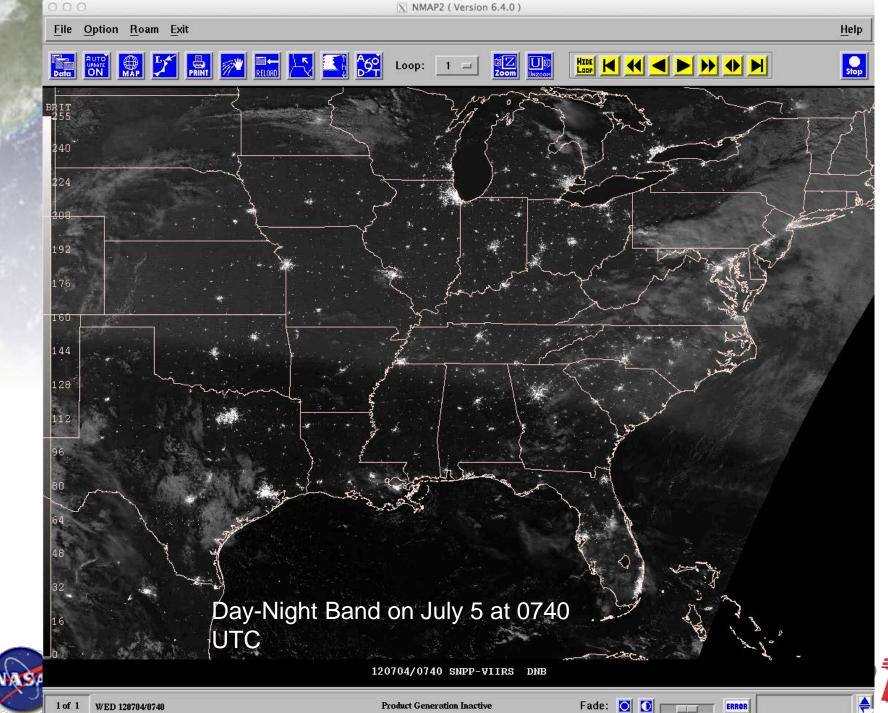


VIIRS Channels

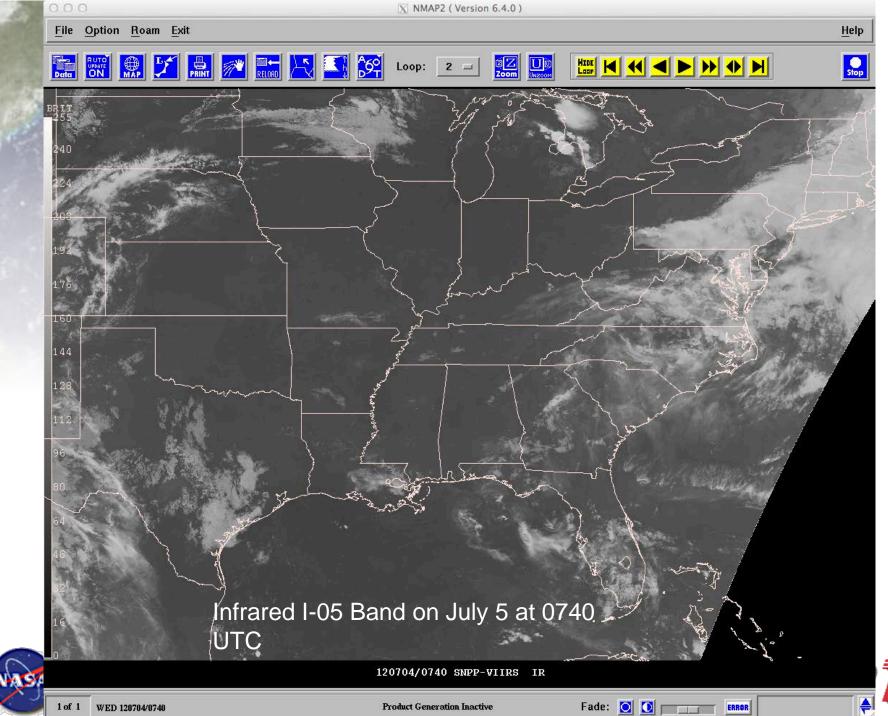
- SPoRT has obtained NRT access to VIIRS data and processed to make them available in McIDAS.
- Identifying collaborative NWS partners for the transition and evaluation of some products.
- Converting VIIRS data to N-AWIPS capable formats to support National Centers who have interest.
- Existing hybrid product to WFO partners will incorporate VIIRS along with MODIS (CONUS done, awaiting OCONUS data access)



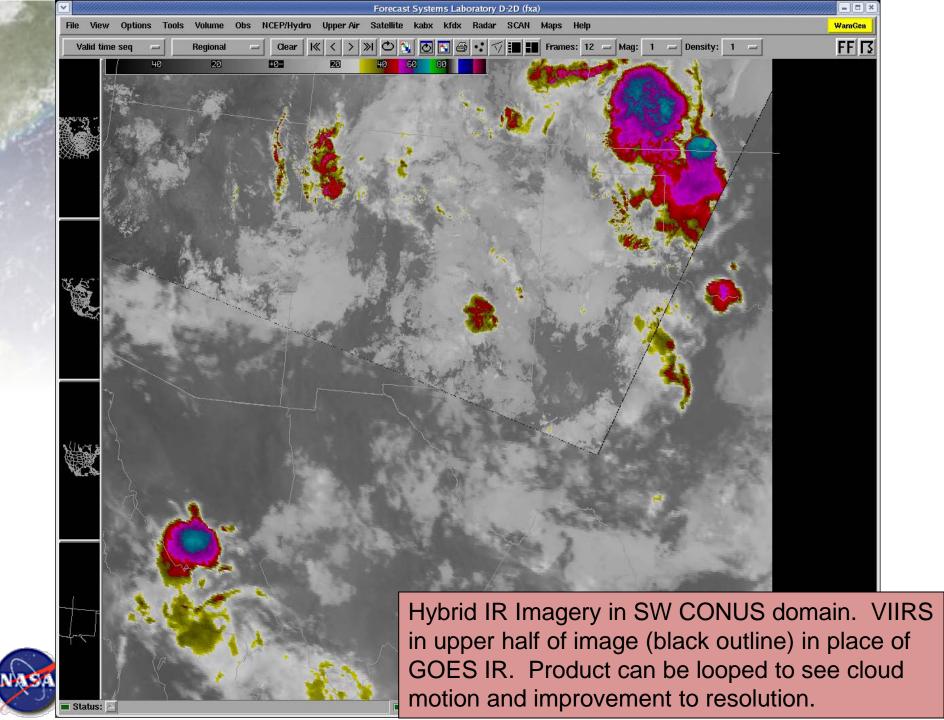




Product Generation Inactive



Product Generation Inactive

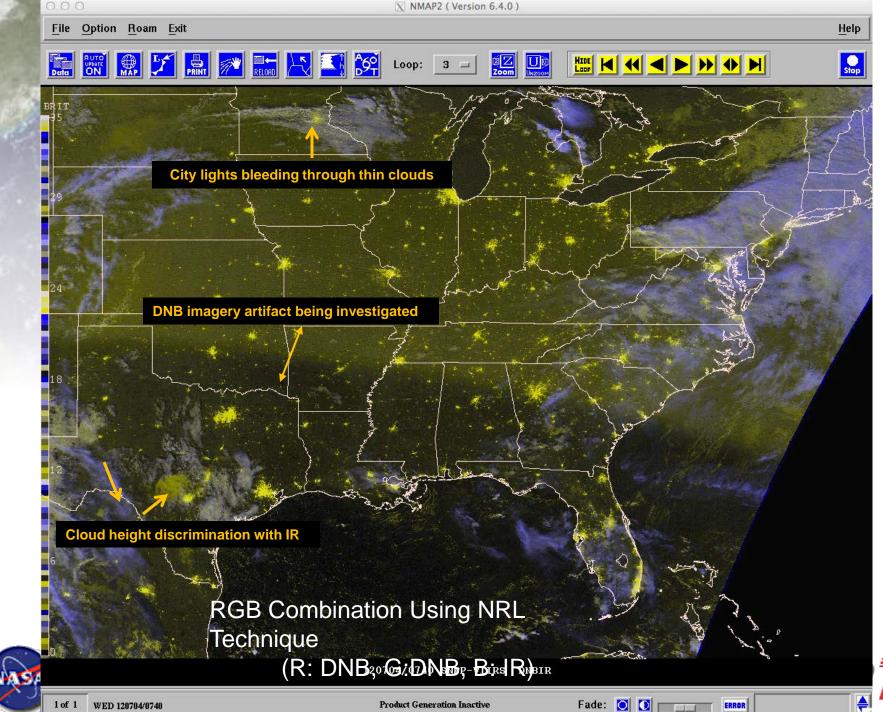


VIIRS RGB Applications

- In collaboration with NRL, adapting some of their NexSAT algorithms and techniques to produce RGB composites from the day-night band.
- Channels needed for standard RGB products have been made ready for processing via McIDAS. VIIRS RGBs for CONUS and OCONUS will be added to existing code for production and transition (OCONUS data access needed).



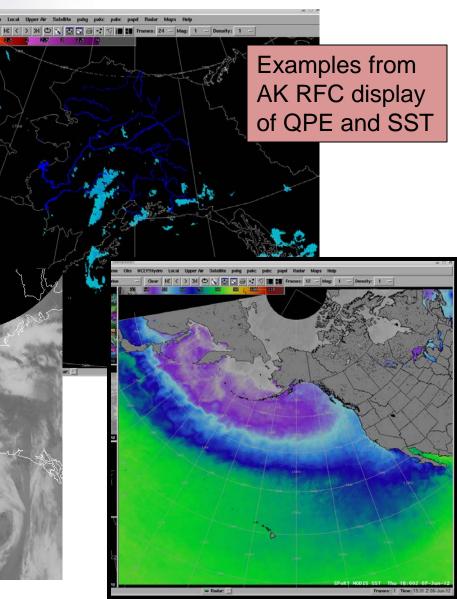


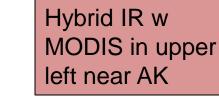


Product Generation Inactive

OCONUS Activities

- Have established LDM feeds from SPoRT to AK and Pacific Regions
- AK RFC has SST and QPE
 - AK WFOs to follow
- Initial suite: SST, QPE, Hybrid Imagery, RGBs
- Could use LANCE data; prefer DB data from GINA for MODIS and VIIRS



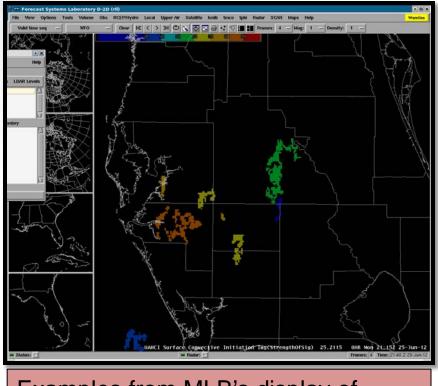




AWG Support

• QPE

- Transition to OCONUS continues as mentioned already.
- Future Plans to provide to National Centers in NAWIPS and evaluate
- UAHCI
 - Supporting use in AWIPS I/II
 - Training accessible for new version of product on SPoRT website
 - Evaluation with WFOs beginning July 10 (Huntsville, Melbourne, Miami, Albuquerque, possibly Charleston WV Pilot Project)
 - User feedback form online
 - Working on new format for quicker NAWIPS display
 - Transition to National Centers upon testing and completion



Examples from MLB's display of UAHCI product over FL





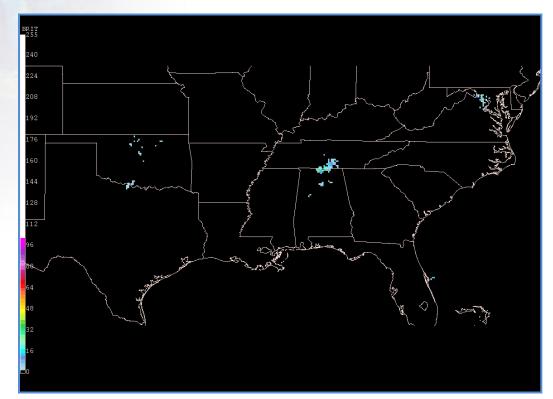
Visiting Scientist Program

Visiting Scientist Program

- Aviation Weather Center and Storm Prediction Center
- Training and methods for implementation
- Now in N-AWIPS and introduced to the AWC Summer Experiment
- Collaborating with respective satellite champions

Other Activities

 Discussing lightning safety evaluation with WFO Morristown, Tennessee



Near real-time pseudo-GLM mosaic in N-AWIPS from SPC





Visiting Scientist Program (cont.)

RGB Collaborations at HPC & SAB

- Michael Folmer visited SPoRT in early June and the following objectives were met:
 - Michael briefed SPoRT on ongoing activities.
 - SPoRT briefed Michael on ongoing AWIPS II development.
 - Michael and Andrew discussed several opportunities related to RGB efforts and applications.
 - SPoRT is supporting Michael in some research activities related to the "air mass" product, in addition to NASA students at Saint Louis University.
 - Michael spent a substantial amount of time with Kevin Fuell in the development of a new training module.
 - Andrew will visit Michael in the August-September time frame.

• RGB Applications for Tropical Analysis at NHC

- Training efforts for Air Mass RGB by Fuell and Folmer (above) will also apply as module examines use of RGBs in extratropical transition of cyclones
- Visit to NHC to discuss applications planned for end of July & Sept.
- AWIPS II and GOES-R3 Collaborations at SPoRT and CIRA
 - Deb Molenar visited SPoRT (March): Discussed AWIPS II plugins for CIRA products
 - SPoRT to visit CIRA (August/Sept): Continue discussions/work in AWIPS II, collaborate on product integration, joint support of products to partner WFOs



