

High Latitude Proving Ground GINA Update Summary of Activities Roadmap for the Future

Proving Ground All-Hands Meeting
November 4th, 2013



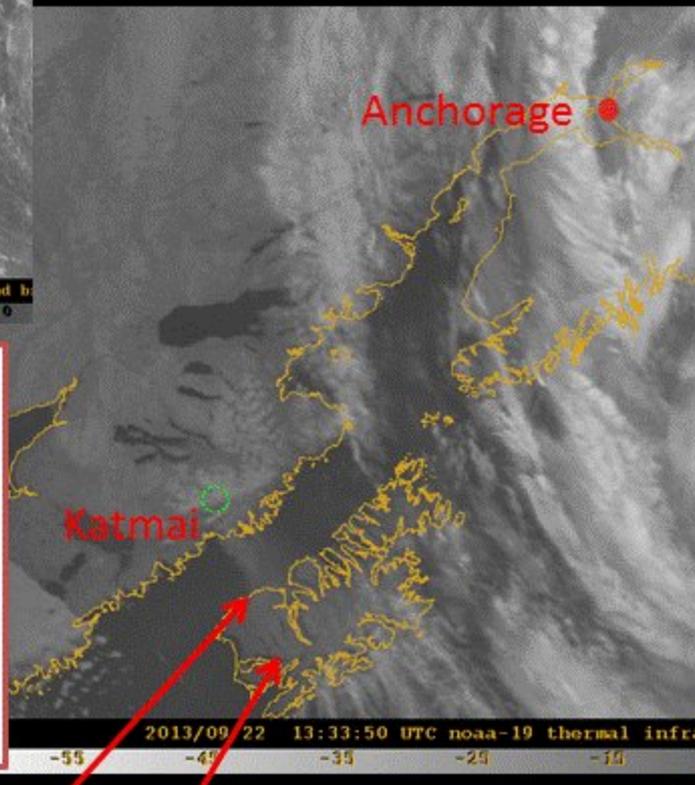
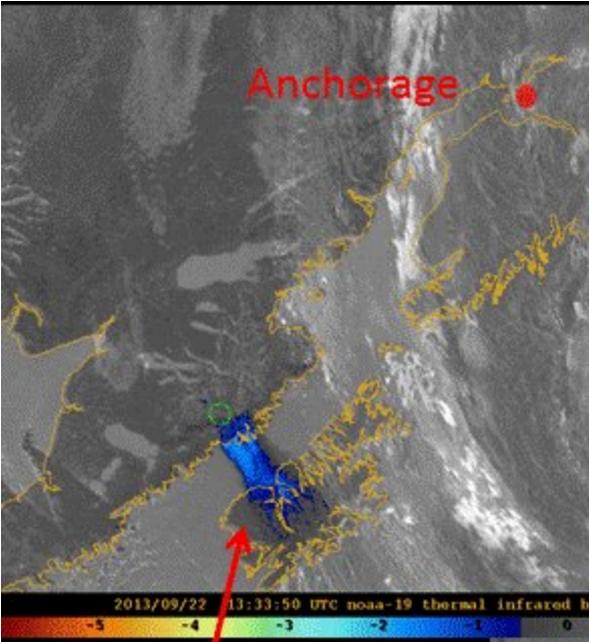
High-Latitude Proving Ground IT Developments

- Two Virtual Machines up and processing in support of NASA SPoRT.
 - Used for production of Hybrid and RGB imagery to be delivered to NWS Alaska via LDM
 - Goal is reduced latency

High-Latitude Proving Ground IT Developments

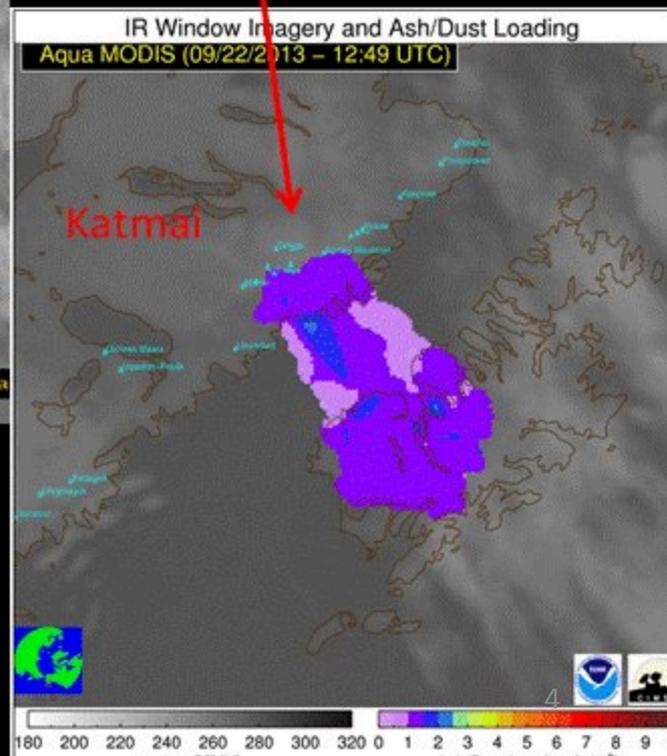
- CSPP multi-core processing
 - GINA now taking advantage of this capacity of CSPP code
 - Now processing two granules at a time; represents a doubling in processing efficiency
 - Further improvement in performance limited by need for better hardware

Eyes in the Sky - Viewing Katmai Resuspended Volcanic Ash



A research and development group called the GOES-R Proving Ground has developed this new satellite processing method depicting the location and amount of ash in the air.

AVO developed satellite processing shows volcanic ash in blue. Meteorological clouds are suppressed. The location of the volcanic ash is easy to see.



Satellite imagery designed to show temperature of clouds. Colder and higher topped clouds are shown in whiter colors. Warm temperatures are darker grey or black. You can faintly see the location of the grey colored ash in this image.

Klyuchevskoy Volcano Continues to Send Ash Toward Alaska



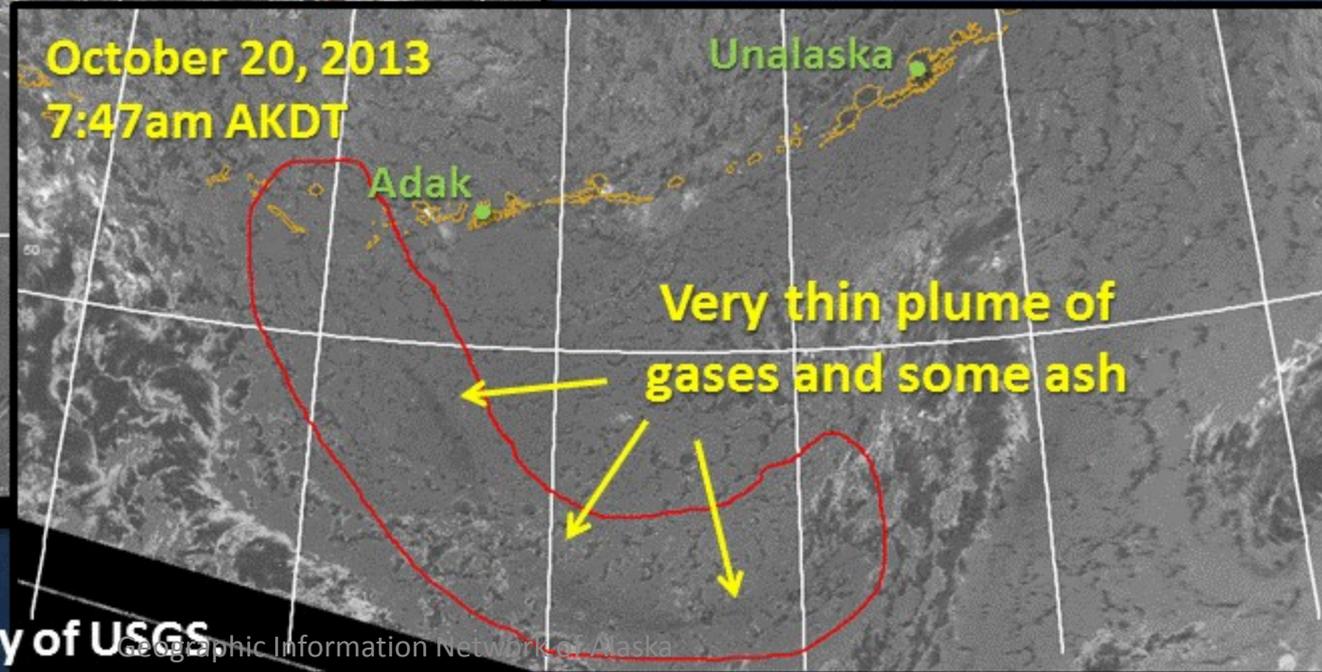
Alaska

October 20, 2013
9:52am AKDT



Visit <http://aawu.arh.noaa.gov/>
and <http://vaac.arh.noaa.gov/>
for the latest forecasts and
warnings issued by the NWS for
this event.

October 20, 2013
7:47am AKDT



High-Latitude Proving Ground

Current and Future Activities

- NOHRSC, UAF ongoing bi-monthly telecons on modeling coordination. SPoRT Recently joined.
- NASA SPoRT RGB imagery for aviation and cloud analysis
 - Evaluation period December through January at NWS Alaska Region WFOs
- GINA plans to install CSPP software component in the near future to process hyperspectral CrIS data

High-Latitude Proving Ground

Future Workshops

- Workshops
 - Satellite Liaisons workshop at NASA SPoRT, November 12-14
 - SNPP SDR Science Review and Validated Product Maturity Workshop, December 18-20
 - American Meteorological Society Annual Meeting in February
 - Jiang Zhu poster presentation on using CrIS and AIRS data in NWP modeling for Alaska