



**Geographic Information  
Network of Alaska**  
[www.gina.alaska.edu](http://www.gina.alaska.edu)

# High Latitude Proving Ground / GINA Update

Proving Ground All-Hands Meeting

July 1, 2013

Presented by Tom Heinrichs, GINA

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# OCONUS Meeting: June 17-21, 2013 in Alaska

## Logistics & Attendance

- Monday June 17 - Anchorage
  - Late afternoon gathering at WFO/AAWU/RFC
  - Reviewed NOAT directives
  - Discussion with SOOs
- Tuesday June 18 – Anchorage
  - Program updates
  - Alaska and Pacific Region experiences and needs
  - OCONUS products

# OCONUS Meeting: June 17-21, 2013 in Alaska

## Logistics & Attendance, continued 1

- Wednesday June 19 - Anchorage
  - Algorithm and products presentations
  - After lunch meeting at WFO/AAWU/RFC
  - Travel to Fairbanks in afternoon evening
- Thursday June 20 – Fairbanks
  - Fairbanks: local products and facilities
  - Fairbanks WFO presentations
  - Liaison presentations



# OCONUS Meeting: June 17-21, 2013 in Alaska

## Logistics & Attendance, continued 2

- Friday June 21 – Fairbanks
  - Fairbanks Command and Data Acquisition Station: FCDAS at Gilmore Creek
  - Army Corps of Engineers: permafrost tunnel



# OCONUS Meeting: June 17-21, 2013 in Alaska

## Action Items – Overview

- Broad-scale polar imagery, GOES + POES loops
  - SPoRT hybrid product
  - STAR/CIMSS polar mosaics
- Need for improved communications between PG and FOs
  - In general
  - Improved product feedback loops

# OCONUS Meeting: June 17-21, 2013 in Alaska

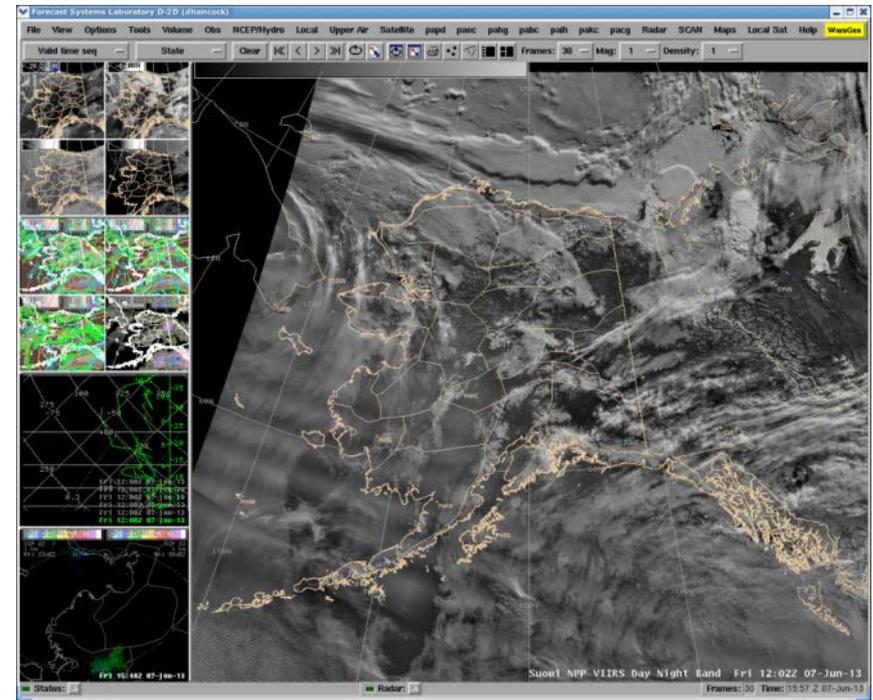
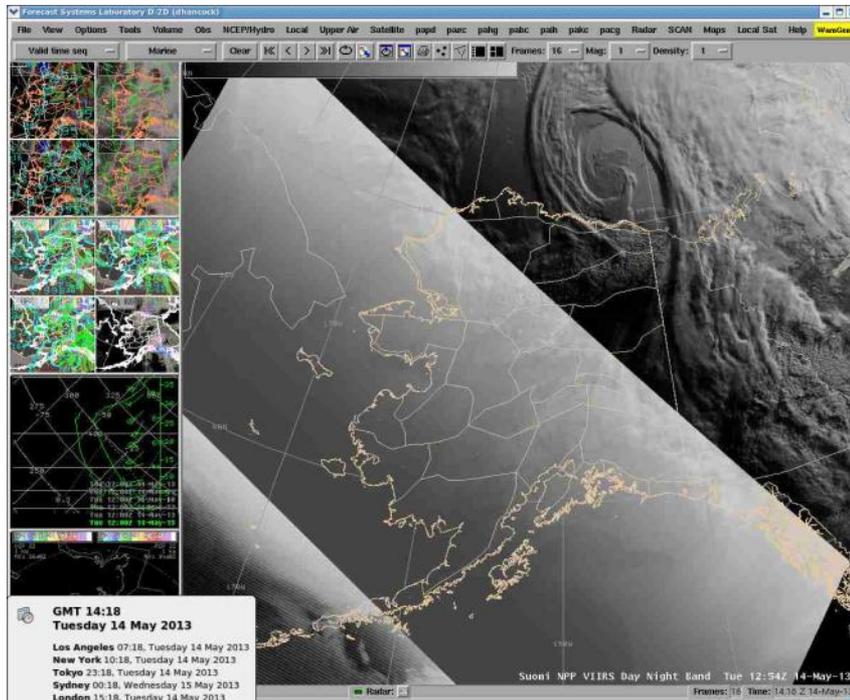
## Action Items – Overview, continued

- Specific product follow-ups
  - Hyperspectral / Sounders
  - VOG
  - Simulated imagery
  - Lightning
  - FLS & clouds
- Low latency access to satellite data
  - Himawari – Japanese GEO
  - SNPP direct readout, low latency, local processing

# An Ongoing, Iterative Process: Improvement to CSPP and VIIRS Day-Night Band

Before: May 14, 2013

After: June 7, 2013

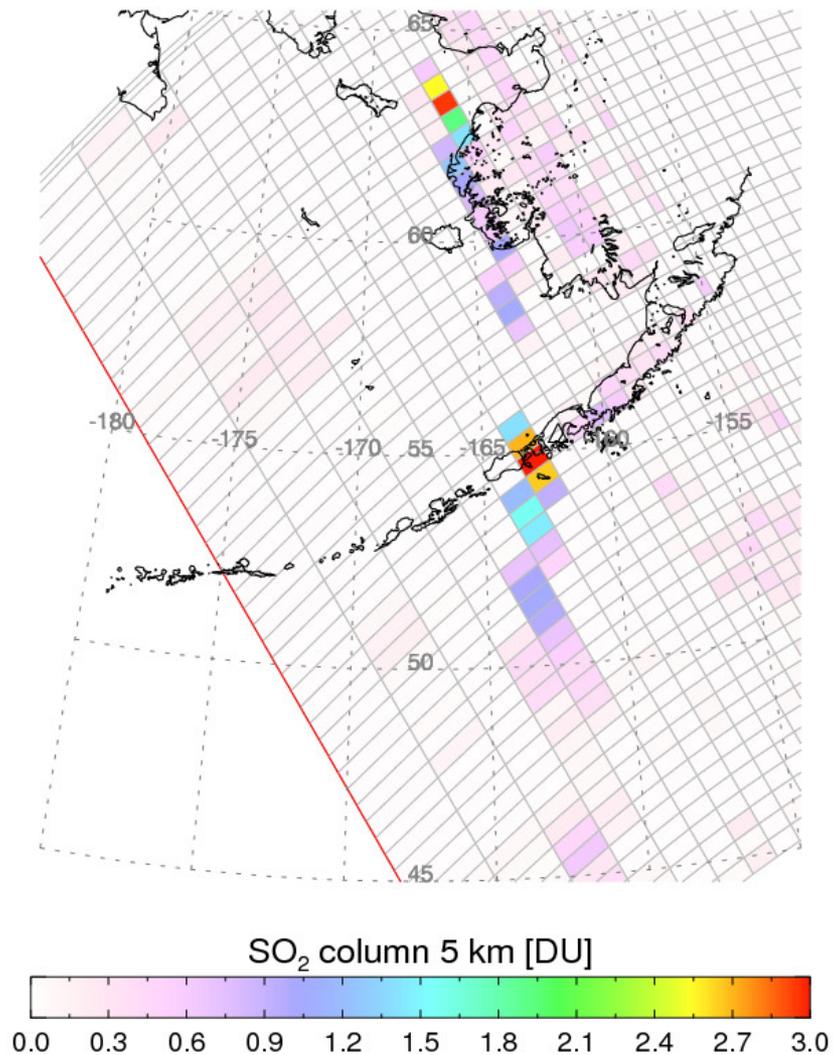


*“One can still see discontinuities in the processing, but they are not likely to be operationally significant. Personally, I'm delighted.” –NWS Meteorologist Dan Hancock, June 7, 2013*

NPP/OMPS - 06/27/2013 22:42-22:49 UT - Orbit 08620

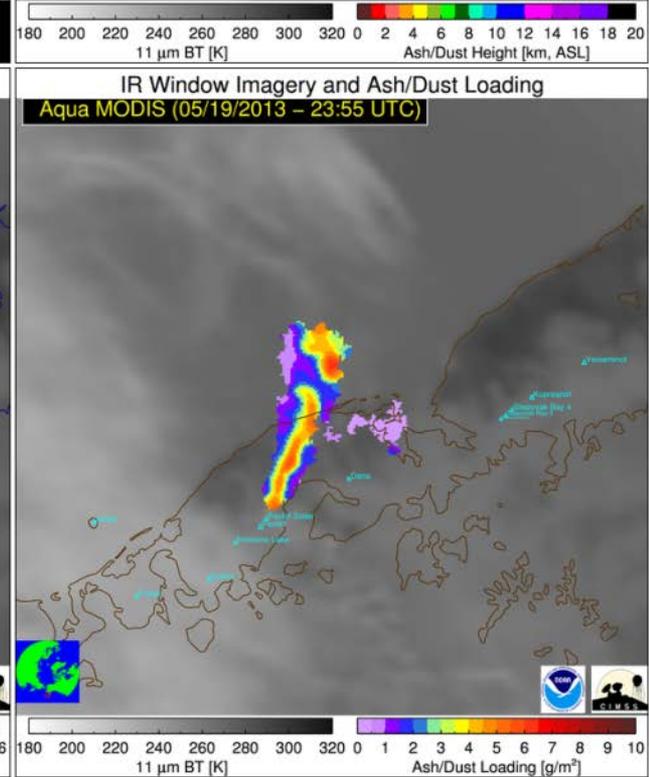
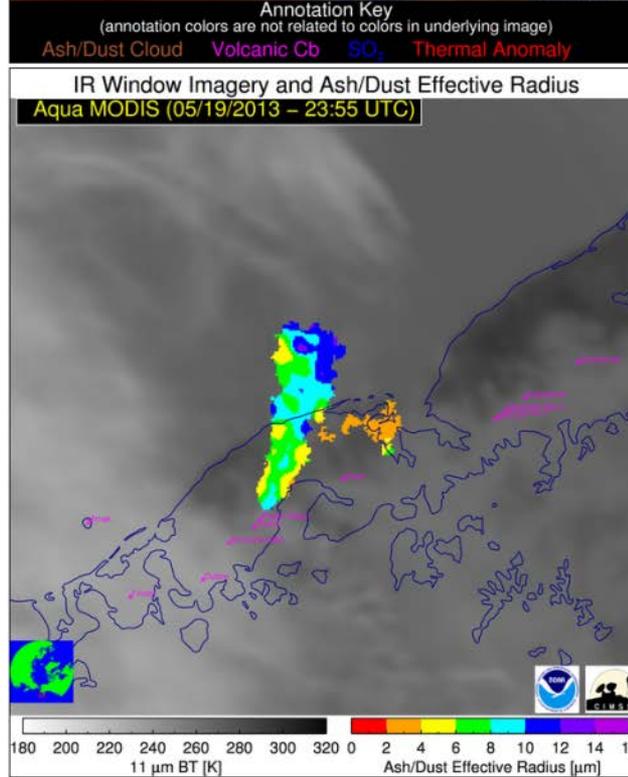
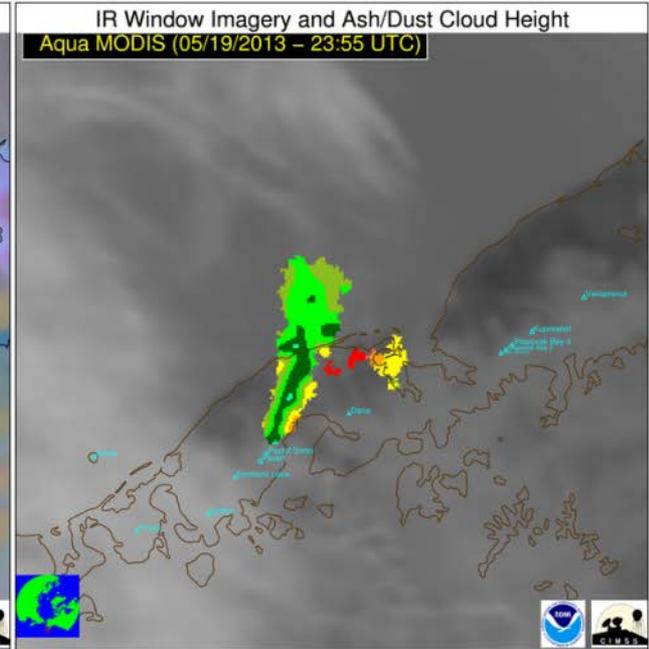
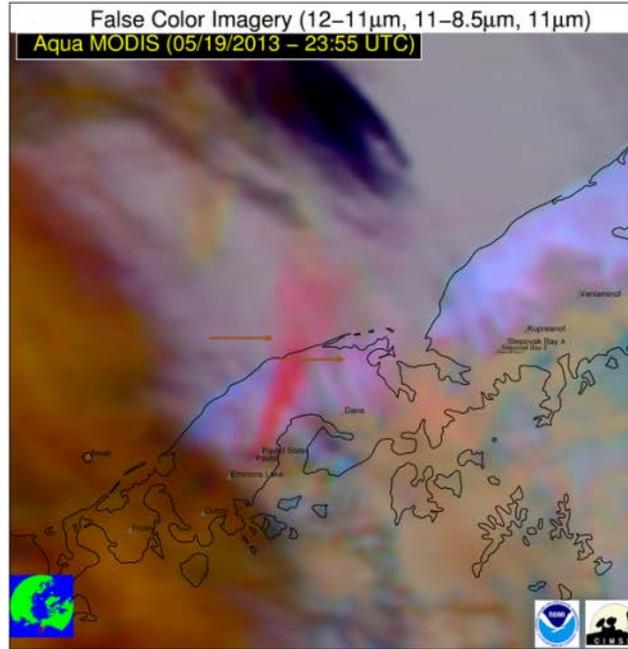
SO<sub>2</sub> mass: 0.000 kt; Area: 0 km<sup>2</sup>; SO<sub>2</sub> max: 5.16 DU at lon: -162.97 lat: 54.84 ; 22:45UTC

# Pavlof SO<sub>2</sub>



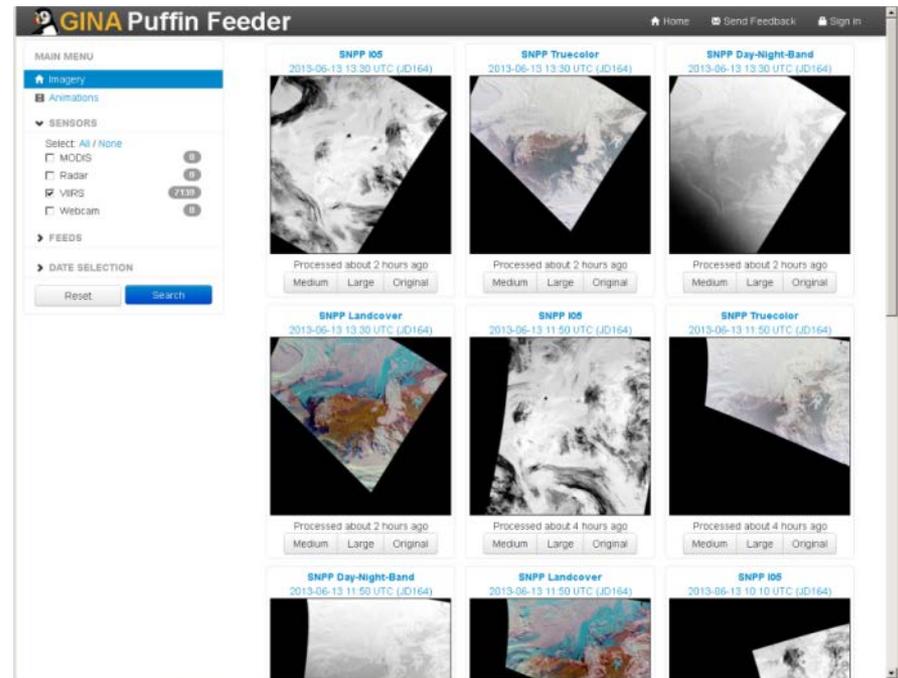
Courtesy: GINA - NASA Direct Readout Laboratory - NPP Ozone PEATE (slide from Nick Krotkov, NASA )

# Pavlof Ash Products



# Puffin Feeder Website

- Recently upgraded to allow user to sort by
  - Data platform / sensor
  - Range of dates
- “Archive is useful when doing case studies,”
  - Don Moore, MIC AAWU
- Can still be improved



[feeder.gina.alaska.edu](http://feeder.gina.alaska.edu)