

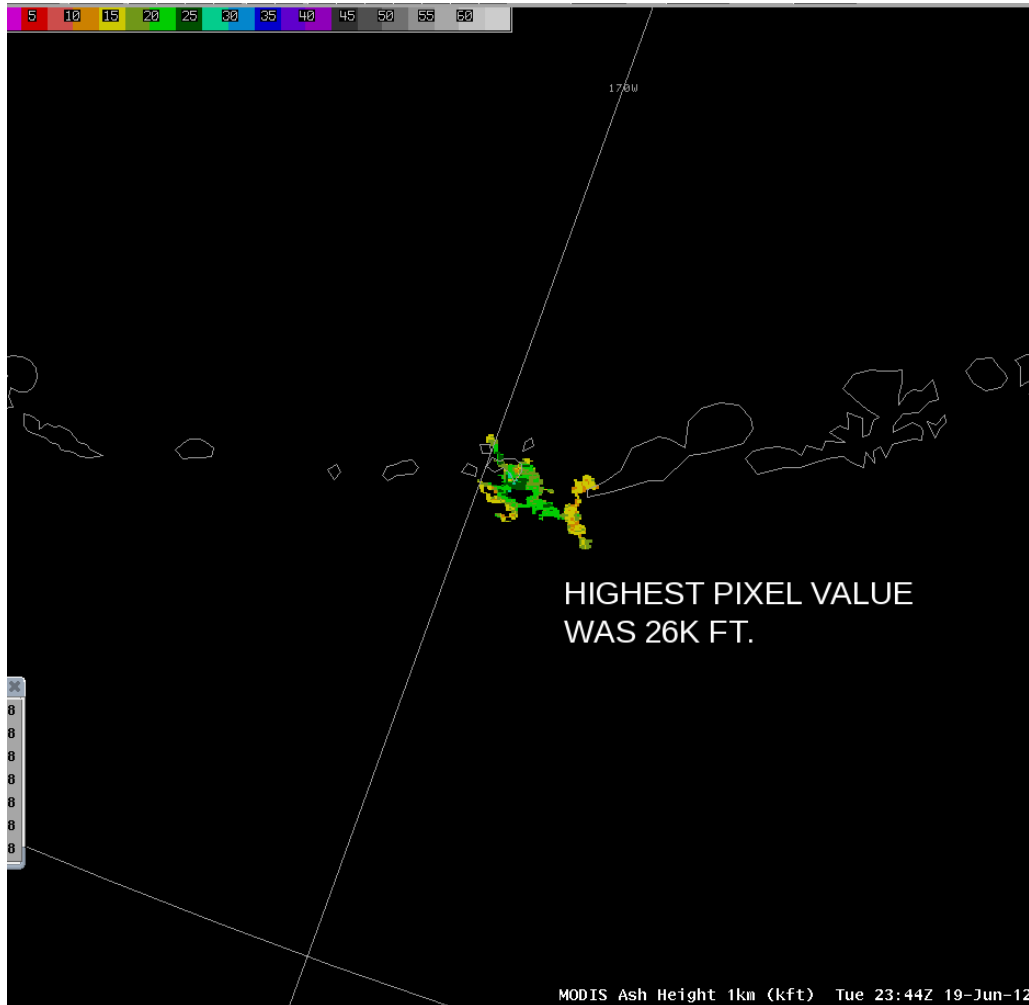
# High Latitude Proving Ground Update

Presented by  
Tom Heinrichs  
UAF GINA & CIFAR  
July 9, 2012

# Update

- Ongoing GOES-R product distribution
  - Improvements and solidification of data distribution network within Alaska NWS offices
  - Active use by WFOs, AAWU, and River Forecast Center
  - Working with CIMSS/STAR to adapt GOES-R algorithm work to VIIRS
- X-band upgraded to receive Suomi NPP
  - VIIRS data flows in place
  - Imagery going into AWIPS in Alaska WFOs, AAWU, and RFC

# Cleveland Volcano, Alaska



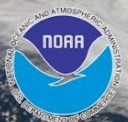
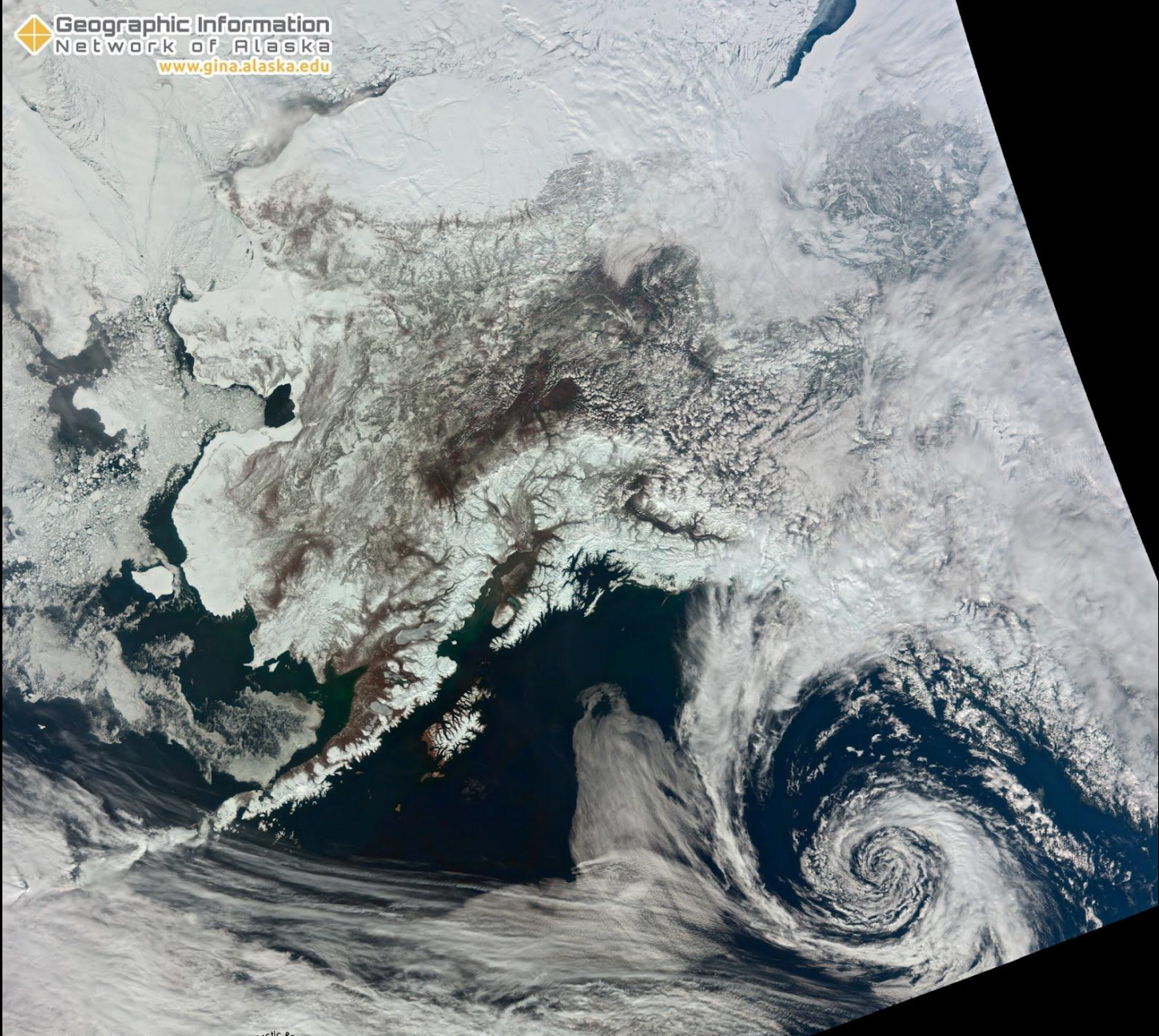
- 19-20 June 2012
- GOES-R algorithms put to good use
- Thanks to Nathan Eckstien, Alaska AWU SOO

# NOAA-JPSS Funded Upgrade to GINA's X-band Ground Receiving Station to Receive **NPP**

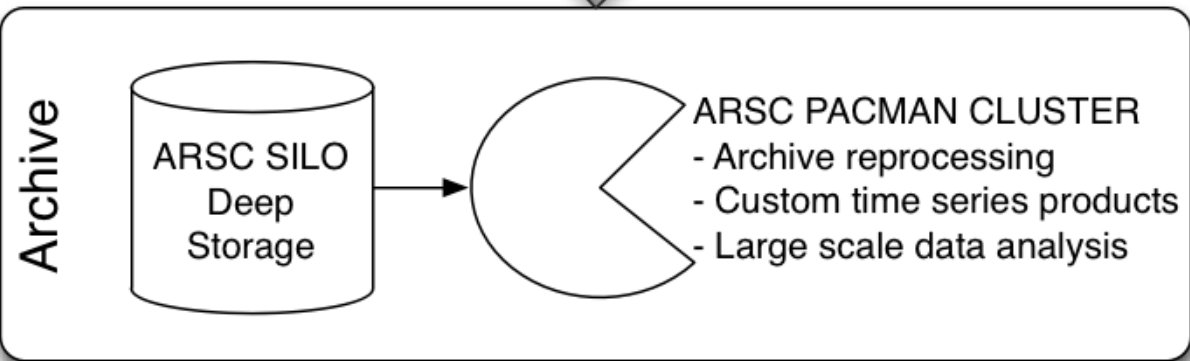
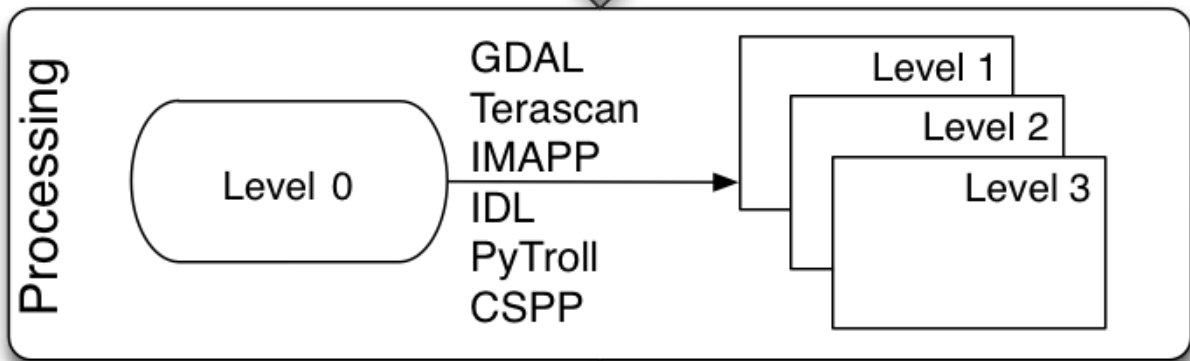
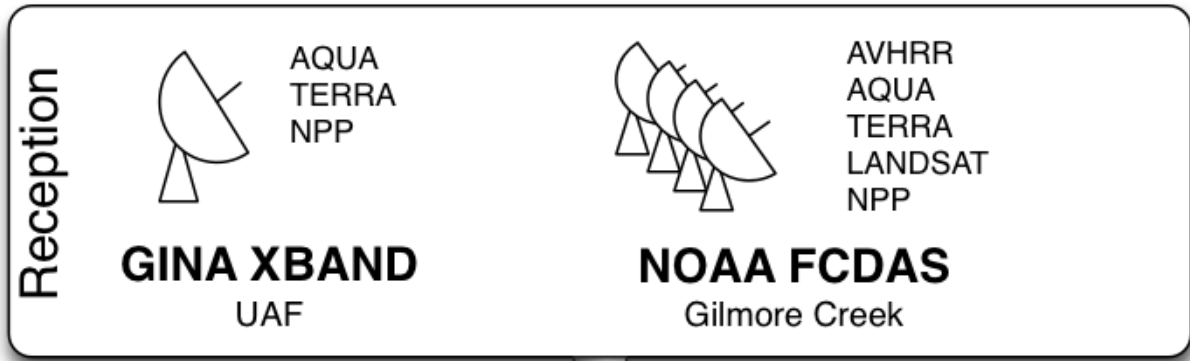
Suomi NPP, Aqua, Terra, Aura







Suomi NPP - VIIRS true color  
April 26th 2012  
NPP.12117.2228  
captured and processed by UAF-GINA



**Distribution**

Available Formats

- GeoTIFF
- KML (GoogleEarth)
- Map Tiles (Google Maps)
- ShapeFiles

Distribution Methods

WMS, WCS, WFS, HTTP, FTP, REST, LDM, ADDE

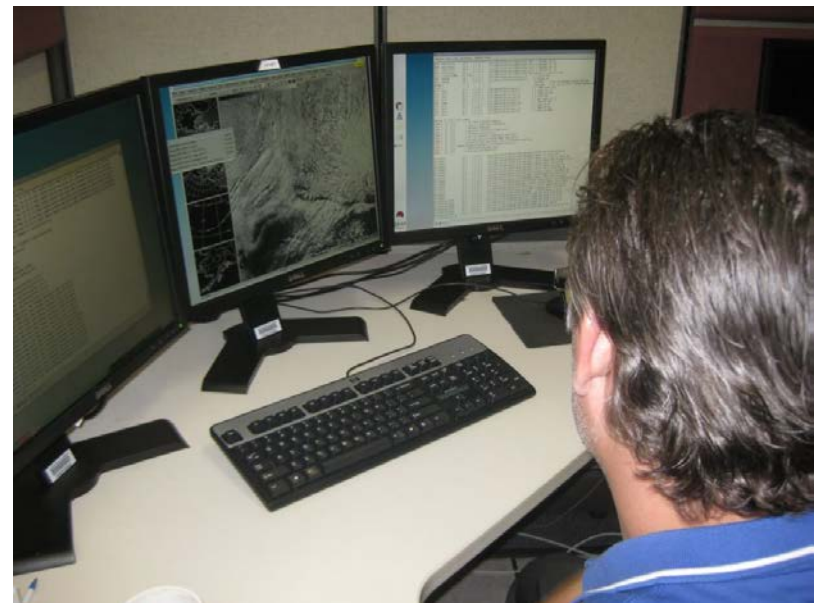
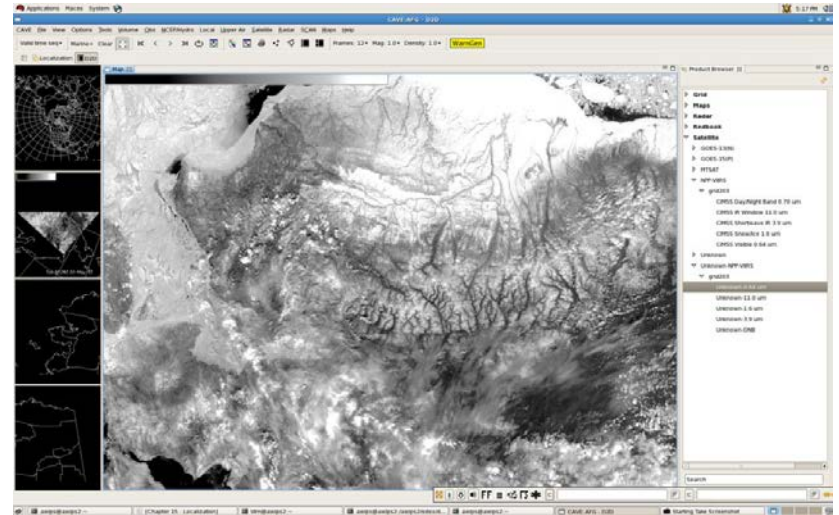
Users

- Alaska Volcano Observatory
- National Weather Service
- State & Federal Agencies
- Alaska Fire Service
- Airforce Weather Agency
- Department of Homeland Security
- Alaska Department of Natural Resources
- UAF Geophysical Institute
- CIRA
- CIMSS
- NASA SPoRT
- JAXA
- JAMSTEC



# Obligatory slide showing data in use in the WFO, up on the screen in AWIPS

- Data flow into Alaska NWS LDM network
- Thanks goes to Kathy Strabala and Jordan Gerth
- Shown: Jim Nelson (Anchorage WFO SOO)





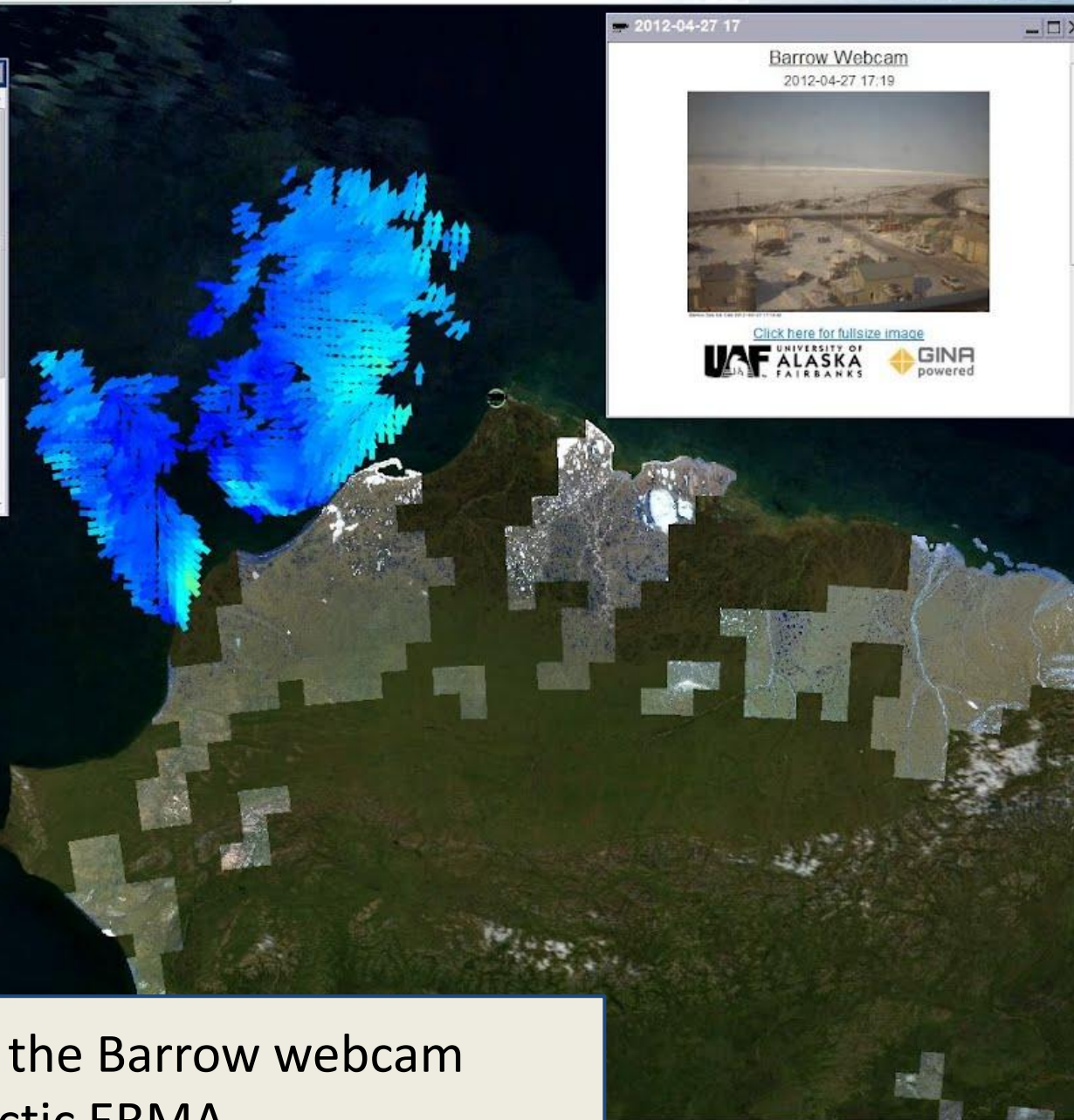
2012-04-27 15

**Barrow Radar**  
2012-04-27 15:54

Barrow Sea Ice Radar: 2012/04/27 15:54

[Click here for fullsize image](#)

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2012-04-27 17

**Barrow Webcam**  
2012-04-27 17:19

[Click here for fullsize image](#)

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FAIRBANKS

**GINA** powered

GeoRSS feed for the Barrow webcam  
consumed by Arctic ERMA



Helicopter Recon Flights

Ice Stations

Web-cams



# Near Future

- Continued work with Alaska NWS
  - Need to create new experiment/test product suite
- Support of NOAA (and others) for summer offshore drilling operations
- Grad students in Arctic hydrology
- New proving ground cooperative efforts in planning
  - SPoRT, CIMSS, CIRA, Air Quality