

OCONUS Direct Readout Activities

GOES-R OCONUS Workshop

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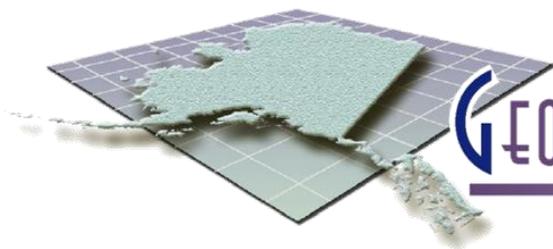
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GEOGRAPHIC INFORMATION NETWORK OF ALASKA

UNIVERSITY OF ALASKA

3.6-meter Antenna

SeaSpace X-band Ground Station

MODIS on NASA Terra and Aqua

1.2-meter Antenna

SeaSpace L-band Ground Station

AVHRR on NOAA polar orbiters

SeaWiFS



ASF2 (10m)



- ViaSat/SA 10m system
- X- and S-band downlink, with no uplink capability
- Currently supports ERS-2, SciSat and COSMIC1-6

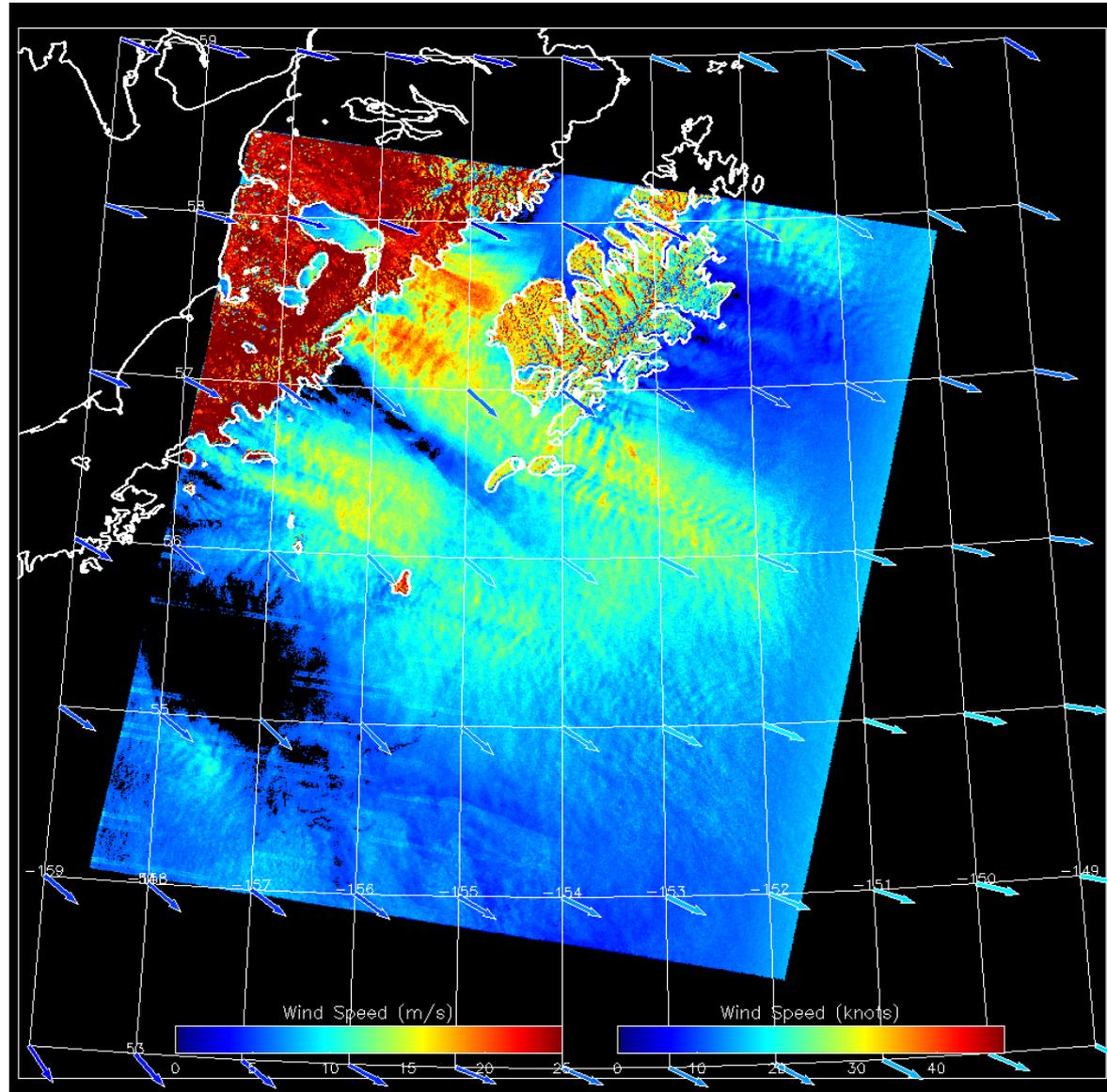
ASF1 (11m)

- 11.28m ViaSat system similar to WGS and SG-1 antenna systems
- Support for X- and S-band downlink and S-band uplink
- Currently supports
 - QuikSCAT, AIM, SAMPEX, ERS-2, SciSat, GRACE-1/-2, COSMIC1-6, FastSat, SAC-D



SAR-Derived Winds

- ASF has worked with NOAA and Johns Hopkins University to implement algorithms for wind retrieval from SAR data
- Wind speed derived from SAR backscatter and direction is retrieved from QuikSCAT data
- Operational products were delivered <4hours after collection when data were available



UAF capabilities

Left to Right: GINA 3.6- m X-band,
NWS NOAAport, ASF 10-m X- and S-band



ASF 11-m X- and S-band
(transmit and receive)



NOAA / NESDIS Fairbanks Command & Data Acquisition Station



NOAA Satellite and Information Service



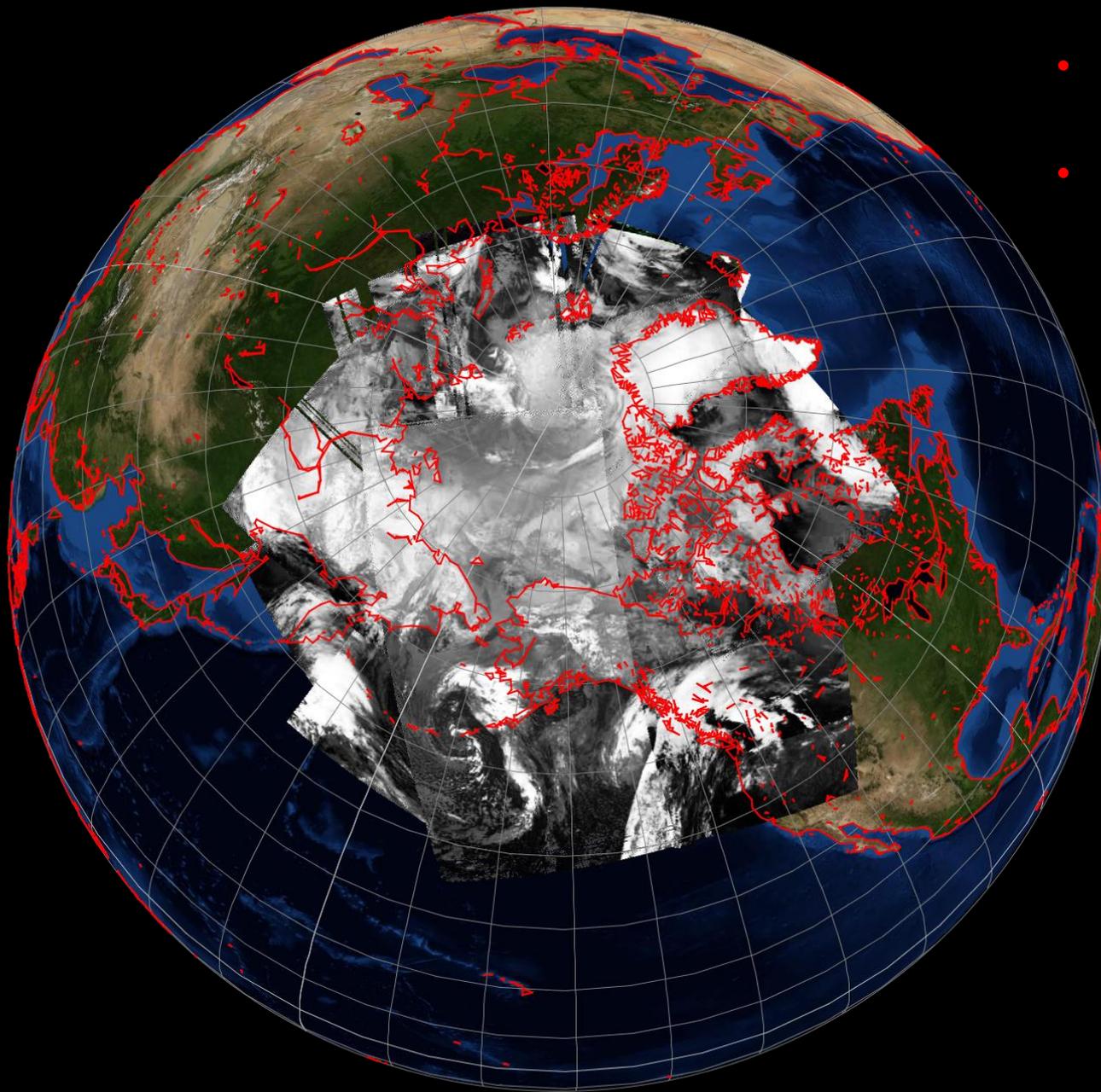
National Environmental Satellite, Data, and Information Service (NESDIS)



NOAA Satellite and Information Service

National Environmental Satellite, Data, and Information Service (NESDIS)





- UAF-GINA + NOAA-FCDAS
Barrow Station Mask
- Passes per day:
 - NOAA AVHRR: 50
 - NASA Terra/MODIS: 10
 - NASA Aqua/MODIS: 10
 - DoD DMSP: 20

DMSP – NWS, Air Force, FCDAS, GINA

From Air Force Out Brief:

- The Elmendorf AFB Mark IVB will be removed
 - This site is used by the 11th OWS, subordinate AF units, the NWS Alaska Region Headquarters (ARH), and subordinate NWS ARH WFO.
- The 11th & 17th OWS and NWS ARH require the DMSP RTD capability provided by the Mark IVB to persist current operations
- Multi-agency collaboration needed to achieve this solution



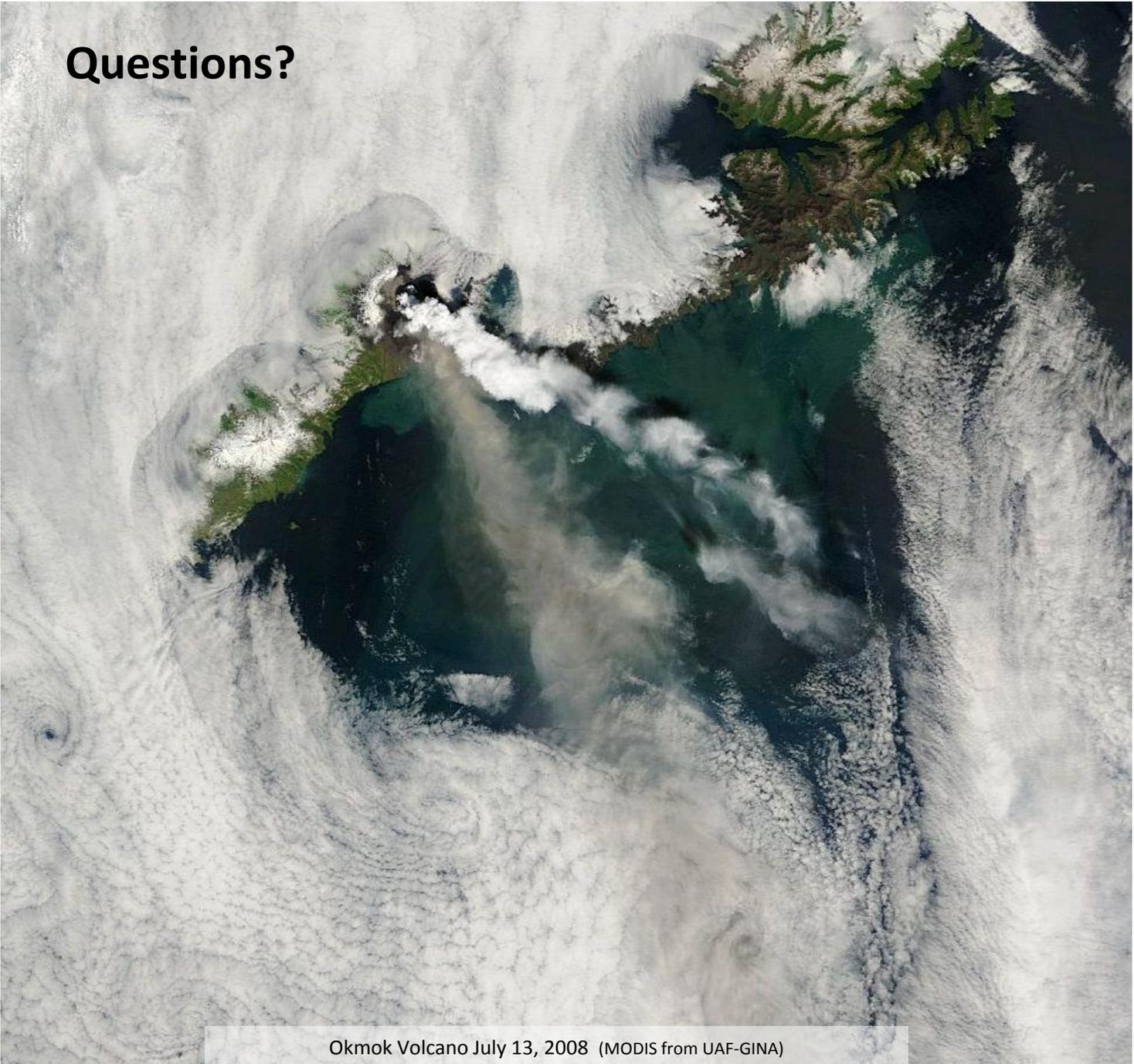
Alaska Region

- Fairbanks is a major center for satellite reception: NOAA, NASA, USGS, UAF, commercial satellites
- Custom products for Alaska Region NWS
- Work with UW SSEC on processing software
- Upgrade to capture NPP at UAF-GINA
 - VIIRS implementation of GOES-R PG products?
- Data to SPoRT, CIMSS, CIRA, & NWS Alaska
 - ftp/http, ADDE, LDM
- DMSP data to NWS and AFWA
- GINA can host VM processors at NESDIS Fairbanks CDAS to reduce latency and provide a .gov home
- GINA will be fully staffed by Sept 2011

Pacific Region

- Ewa Beach site in (partial) operations
- X-band in Hawaii deferred to future year (to be sited at Hawaii Community College)
- University of Hawaii has in-house X-band experience
- UAF-GINA and UW-Madison will work in support of UH, if requested
- NPP part of planned Hawaii station?
- GOES-R proving ground community stands ready to support UH: SPoRT, CIRA, STAR, CIMSS, GINA

Questions?



Okmok Volcano July 13, 2008 (MODIS from UAF-GINA)