Alaska Satellite Facility

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Alaska Satellite Facility

Located in the Geophysical Institute at the University of Alaska Fairbanks since 1991

- NASA EOSDIS Data Center: SAR Data Center
- NASA Ground Network (GN) Station
- Americas ALOS Data Node (AADN)
- GeoData Center, including map sales
ASF Services

- Receive and archive satellite data
  - SAR expertise
  - Optical imagery experience
- Process data products
  - Multiple data levels
  - Flexible processing options
- Distribute data to the science, education, and government communities
  - GeoData Center, including map sales
  - Information products
- Provide user tools for accessing data
  - Assistance and guidance for users
  - Development and sustaining of ASF tools
What can you see with ASF data?

- Geology
- Volcanoes
- Glaciers
- Hydrology
- Fires
- Seasons
- Human impact
- Habitat assessment
- Ice
- Open ocean

SAR images through clouds and at night

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SAR data applications

- Change detection
  - topology changes
  - velocities
- Digital Elevation Models
- Earthquake effects
- Subsidence
- Coastal Processes
- Ice margins, icebergs and ice tongues

Source: Lu, Z., Wright, T. and Wicks, C., 2003, EOS, Vol. 84, No. 41
Additional data applications

• Sea ice motion
• Antarctic Geology
• Antarctic Paleoclimate
• Grounding lines location
• Fusion products
• Winds on the ocean

• Reduction in field operation expenses
Near-Real-Time Products: Delivered 1-2 hours after acquisition

Hurricane Isabel

Imagery of Hurricane Isabel provided to:

• Researchers (members of the International Hurricane Watch Program)
• NOAA, USGS, and FEMA for disaster and flood monitoring
Come see us at ASF for data access