VIIR, MODIS Visible, IR

Retrieved from the GINA Alaska Direct Broadcast Satellite Data Portal
http://feeder.gina.alaska.edu/

GINA

The Geographic Information Network of Alaska (GINA) is the University of Alaska's mechanism for organizing and sharing its diverse data and technological capabilities among the Alaskan, arctic, and world communities.

Established in 2001 as an initiative of UAA's President. GINA unites and extends UAA's GIS and remote sensing activities through the use of internationally adopted standards and shared web portals. GINA collaborates with academic, Federal/State/local agencies, industry/consultants, NGOs/Foundations, and private sector organizations to serve geospatial data with special focus on covering the state of Alaska.

GINA provides a distributed data system for geospatial information and maintains an enterprise-level geographic information system (GIS) with online archiving, internet mapping, and metadata services. We offer training and assistance in satellite image processing, GIS, and visualization. GINA provides custom processing, server-side analysis, and visualization tools.

GINA holds an extensive inventory of satellite images and aerial photos taken largely over the state of Alaska. The majority of our data is available online and can be freely downloaded.

JPSS

The GINA Direct Broadcast Near Real-time processing system is supported by the Joint Polar Satellite System (JPSS), a collaborative program between the National Oceanic and Atmospheric Administration (NOAA) and its acquisition agent, National Aeronautics and Space Administration (NASA). Direct Broadcast (DB) data is processed using free open source science software through the Community Satellite Processing Package (CSPP).

JPSS polar satellites are the backbone of the global observing network, circling the Earth from pole-to-pole and providing full global coverage twice a day. Satellites in the JPSS constellation gather global measurements of atmospheric, terrestrial and oceanic conditions, including sea and land surface temperatures, vegetation, clouds, rainfall, snow and ice cover, fire locations and smoke plumes, atmospheric temperature, water vapor and ozone. JPSS delivers key observations for the Nation's essential products and services, including forecasting severe weather like hurricanes, tornadoes and blizzards days in advance, and assessing environmental hazards such as forest fires, smoke, volcanic ash, sea ice movement, and harmful floods.