

Surveying, Mapping and Geosciences Session

Monday 8 September 1400-1730h EDT

- 1400h: CORS Status - **Giovanni Sella and Francine Coloma** - NOAA-NGS
- 1415h: OPUS Updates and Future Geometric Datum - **Joe Evjen** - NOAA-NGS
- 1435h: The eGPS RTN History and Lessons Learned - **Lonnie Sears** - eGPS
- 1455h: Florida Permanent Reference Network (FPRN): State of the Network - **Ron Hanson** - Florida Department of Transportation
- 1520h: BREAK
- 1540h: Gulf Coast Subsidence and Greenland Melting: The Role of Satellite Geodesy in Sea Level Rise Studies - **Tim Dixon** - University of South Florida
- 1600h: Earthquake cycle in Nicoya peninsula Costa Rica - **Nich Voss and Rocco Malservisi** - University of South Florida - University of South Florida
- 1620h: NRCANs' Precise Point Positioning (PPP) Service - **Ken MacLeod** - NRCAN
- 1700h: General Questions

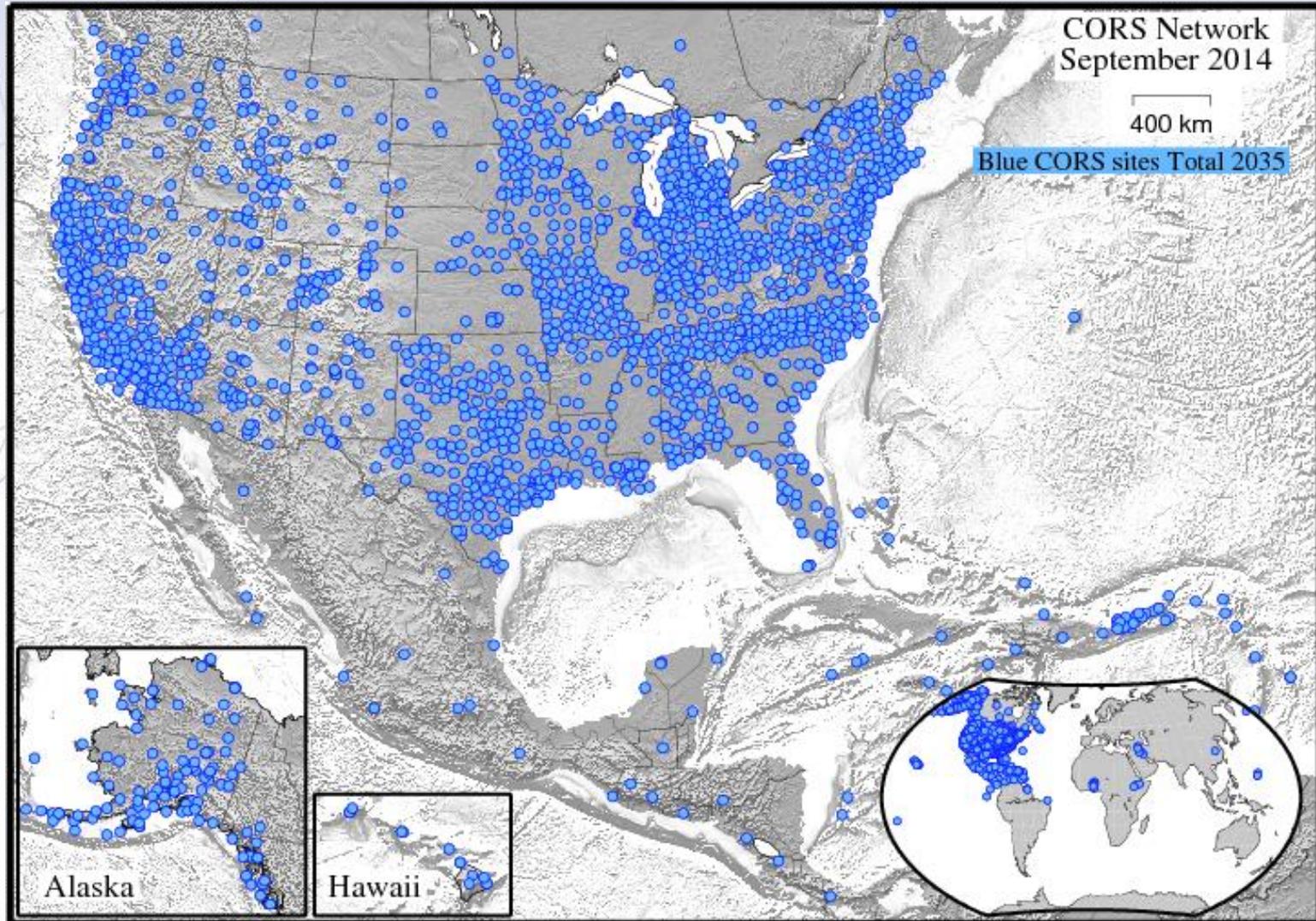
CORS Status September 2014

Giovanni Sella

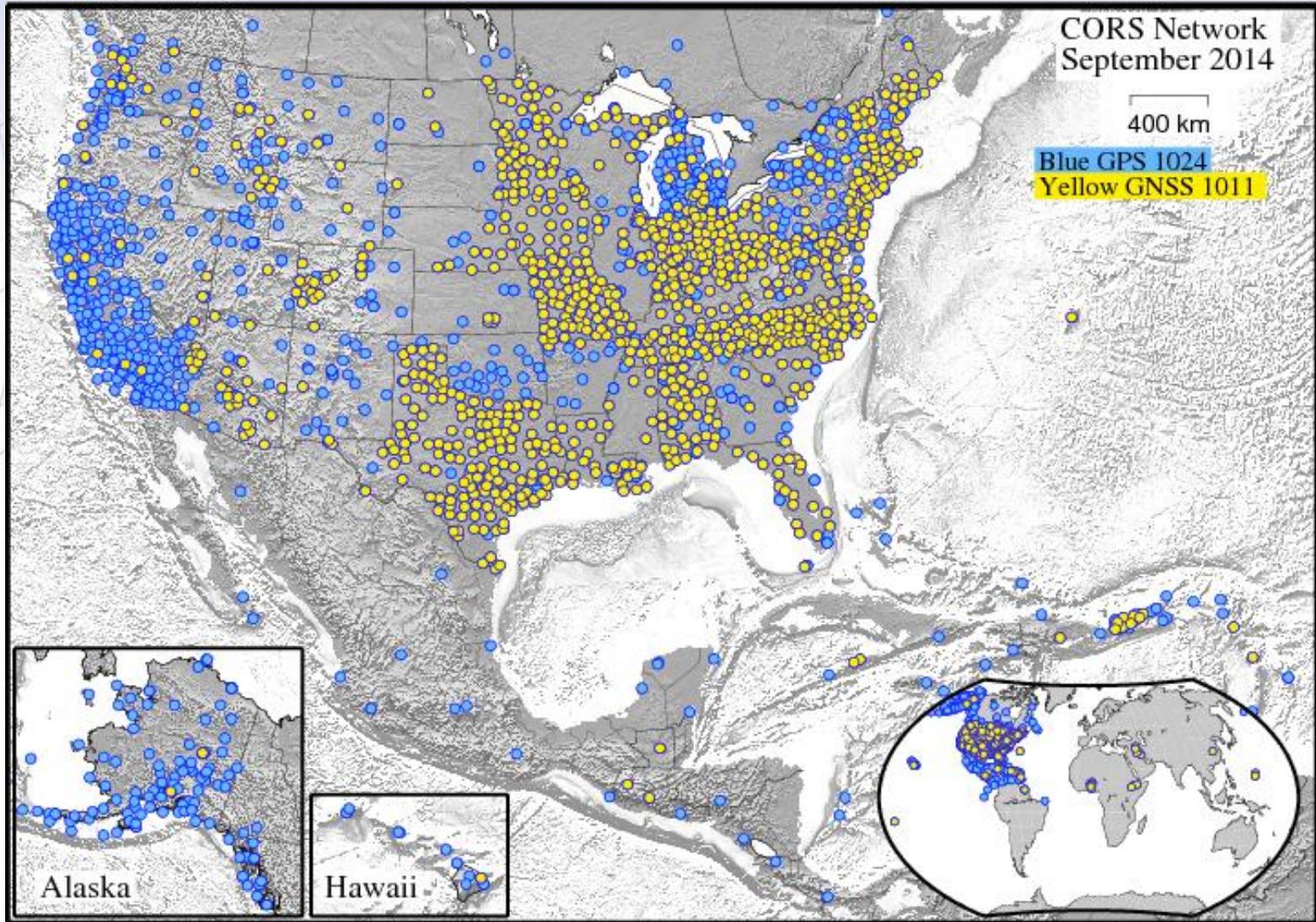
CORS Program Manager
giovanni.sella@noaa.gov

2014-September 08, CGSIC/ION, Tampa, FL

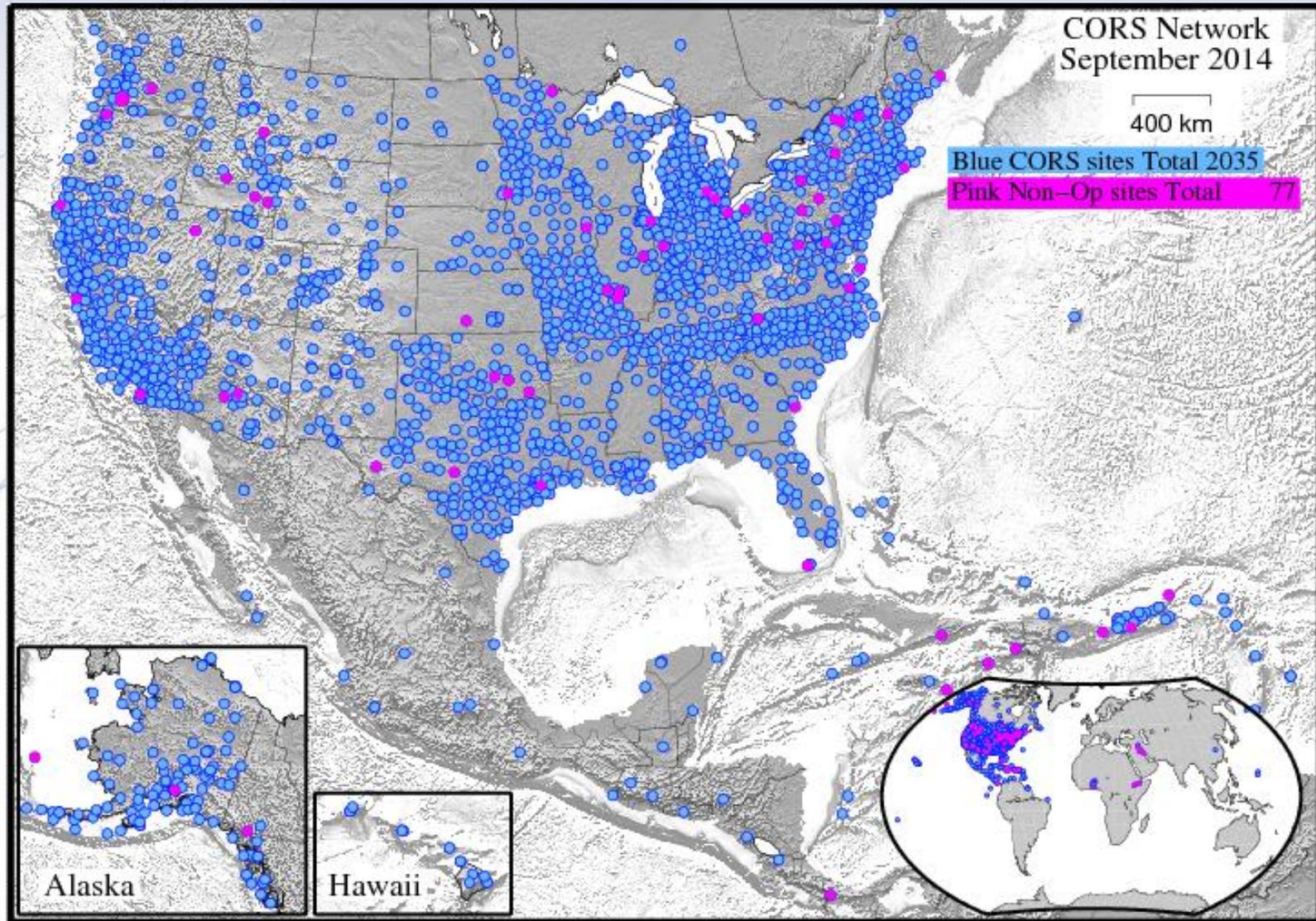
CORS Network



GPS vs GPS+GLONASS



Operational vs 30 days no data



Updates

- > 2014-Feb-03: Started release of GNSS data and updated UFCORS to 4.0
- > 2014-Apr-08: Completed release of all GNSS from 2007-250-present
- > 2014-Apr-11: Updated UFCORS for GPS only users who have software that cannot read L2C and L5

- > Guidelines Updated 1 Jan 2013
min 70km (total sites added FY14 ~90)

NGS CORS data archive of “at sampling data” hosted by National Geophysical Data Center/CLASS

Francine Coloma

NOAA affiliate,

University of CO/Cooperative Institute for Research in
Environmental Sciences (CIRES)

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CORS archive holdings

- CORS data from 1994 – 30 days before current day
- At-sampling data of RINEX files (where available) starting 2004
- Binary data for select CORS sites (FAA, USCG, NOAA)
- GNSS holdings starting 2014 January 01
- Now accessible online from NOAA's CLASS interface
 - Extraction from tape library – delivery can take a week or more

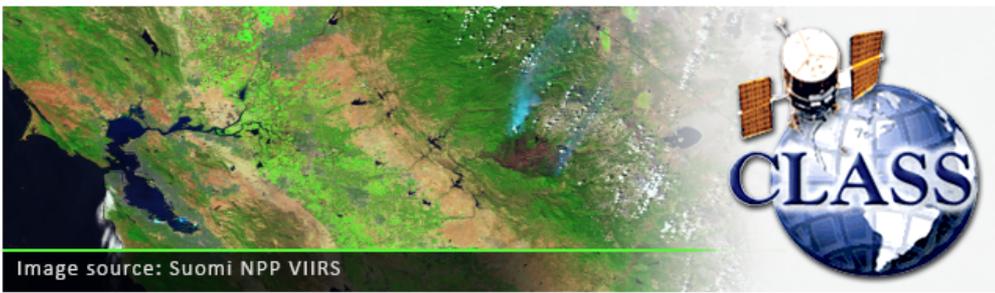
NOAA COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM (CLASS)

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NEWS

Update#3: Attention CLASS Users (09/04/14):
 The backlog of S-NPP ad hoc orders and some subscription orders should return to normal by September 5. Please refrain from re-ordering the same files which will only add to the backlog. We appreciate your continued patience while we get caught up. If you have any questions please email [CLASS Help Desk](#).

Save the Date! April 27 - May 1, 2015: NOAA Satellite Conference:
 We are pleased to announce the National Oceanic and Atmospheric Administration (NOAA) Satellite Conference (NSC 2015) for Direct Readout, GOES/POES, and GOES-R/JPSS Users, which is being planned for April 27 - May 1, 2015 in Greenbelt, Maryland. The spotlight theme is "Preparing for the Future of Environmental Satellites." For more information and registration please go to <http://satelliteconferences.noaa.gov/2015/index.html>.

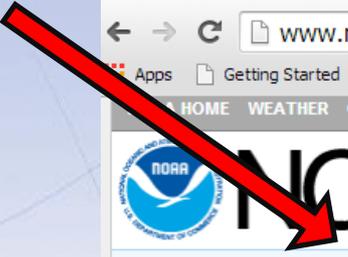
Attention S-NPP Users (08/05/14):
 Beginning on August 11-14, 2014, CLASS started receiving the majority of S-NPP data in gzip compressed format from JPSS for ATMS, CRIS, CRIMMS, OMP5 and VIIRS. All other data types will remain uncompressed. Please see the Notes section of a particular product to read additional details on the compression. The file names will remain the same. Other than the file size being smaller, users do not need to make any changes to their software to use the data. If you have any questions please email [CLASS Help Desk](#).

Attention CORS users (06/23/14):
 Starting January 1, 2014, the National Geodetic Survey's CORS data archived at CLASS now includes GPS+GLONASS data for stations with GNSS-capable equipment. The GLONASS broadcast navigation file (BRDC) is also available for users at the same starting date. (GLO navigation file name example: brdc1680.14g.gz)

CORS data collections include RINEX since 1994 and raw GPS from selected CORS sites since 2004. The original at-sampling rate was retained except where there was only the 30-second decimated rate data. For more info see the CORS CLASS search page.

- ### SEARCH FOR DATA
- Environmental Data from Polar-orbiting Satellites
 - Environmental Data from Geostationary Satellites
 - Defense Meteorological Satellite Program (DMSP)
 - Suomi National Polar-orbiting Partnership (NPP)
 - Sea Surface Temperature data (SST)
 - RADARSAT
 - Altimetry / Sea Surface Height Data (JASON-2)
 - Global Navigation Satellite Systems (GNSS)
 - Continuously Operating Reference Stations (CORS)
 - Global Navigation Satellite System Receiver for Atmospheric Sounding Level 1B (GRAS)
 - Other - Miscellaneous products in CLASS

SEARCH COLLECTION METADATA >>GO





NOAA COMPREHENSIVE LARGE ARRAY-DATA STEWARDSHIP SYSTEM (CLASS)

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Continuously Operating Reference Stations (CORS) >>GO

Search - CORS

Data Description

NOAA CLASS archive: Continuously Operating Reference Stations (CORS) - NOAA CLASS archive: Continuously Operating Reference Stations (CORS) - The National Geodetic Survey (NGS), an office of NOAA's National Ocean Service (NOS), coordinates a network of geodetic-quality CORS stations that provide Global Positioning System (GPS) carrier phase and code range measurements in support of 3-dimensional positioning activities throughout the United States and its territories. The positions of these CORS sites help define the National Spatial Reference System (NSRS). NGS defines and manages the NSRS - the framework for latitude, longitude, height, scale, gravity, orientation and shoreline throughout the U.S. The NSRS provides a consistent national coordinate system to support mapping, charting, navigation, boundary determination, property delineation, infrastructure development, resource evaluation surveys, and scientific applications. The CORS system enables positional accuracies that approach a few centimeters relative to the NSRS, both horizontally and vertically.

While every effort is made to retain data in the original at-sampling rate, there may be cases where only the 30-second decimated rate data exists. Data availability (note latency from present day) for RINEX data is archive start date on 1994:112 and current date at 32-days before present; for raw GPS data (selected sites) is archive start date on 2004:193 and current date at 5 days before present.

Notes

Dataset Name

Single or multiple file request, separated by comma

Dataset name format is:
 {ssss}{yyyy}{ddd}{.tgz|.dat|.gz} or {ssss}{ddd}{0.{YY}o|m|s|.gz} or brdc{ddd}{0.{yy}g|n|.gz} or {ssss}_{yyyy}{mm}{dd}.log or {ssss}{yy}{mm}.log where {ssss} site, {yyyy} year, {yy} year, {ddd} day of year, {dd} day, {hh} hour, {mm} month, extension is optional
 Examples:
 CORS Raw Data: abq52012195.tgz
 Daily GNSS Observational File Data: dsrcl330.10o.gz
 Daily GNSS Observational Summary File: gait1120.94S.gz
 Daily Global Navigational File: brdc0400.94n.gz
 Daily Meteorological Data File (RINEX MET): prmi0120.08m.gz
 Daily Site Log -- Current Format: 1lsu_20031206.log
 Daily Site Log -- Historical Format: grar0112.log

to place small order after reviewing inventory and granule metadata, including browse images when available.

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Notes

Temporal

(maximum range is 366 days)

Search by: Date Day of Year

Beginning Day of Year:
(format: YYYY-DDD)

Ending Day of Year:
(format: YYYY-DDD)

Advanced Search

Datatype

Station Specific - Select Stations As Necessary

- CORS Raw Data
- Daily GNSS Observational File Data
- Daily GNSS Observational Summary File
- Daily Global Navigational File
- Daily Meteorological Data File
- Daily Site Log -- Current Format
- Daily Site Log -- Historical Format

Station

- 1LSU , LOUISIANA STATE U , LA
- 1NSU , NORTHWESTERN S.U. , LA
- 1ULM , U OF LA AT MONROE , LA
- AB02 , NIKOLSKI AK2007 , AK
- AB04 , SAVOONGA AK2007 , AK
- AB06 , FALSEPASS AK2005 , AK
- AB07 , SANDPOINT AK2004 , AK
- AB08 , MEKORYUK AK2008 , AK
- AB09 , RAZONBACK AK2007 , AK
- AB11 , NOME ANVILAK2006 , AK

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