

Hands on web databases

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INTERNATIONAL SCHOOL OF SPACE SCIENCE
L'Aquila - ITALY



THE POLAR UPPER ATMOSPHERE: FROM SCIENCE TO OPERATIONAL ISSUES

17-21 September 2018, L'Aquila (Italy)

SPDF - Coordinated Data Analysis Web

https://cdaweb.sci.gsfc.nasa.gov/index.html/

Hub (Preferiti, Elenco di lettura, cronologia e download)

Zimbra: In arrivo | Structure | INFN Rom | Dictionary.com | Mea | WhatsApp | Geo-electric measure | Plotting service - Gec

GODDARD SPACE FLIGHT CENTER
Space Physics Data Facility

+ Goddard Home
+ Visit NASA.gov

+ SPDF HOME

+ DATA & ORBITS

+ MODELS at CCMC

+ SCIENCE ENABLED

+ AND MORE

CDAWeb

+ CDAWEB HOME

+ FEEDBACK

+ ABOUT CDAWEB

CDAWeb Mirror Site

+ RAL/UK

Guides and Tutorials

+ CDAWeb help

+ Internet browser help

Direct Access to Data

+ Direct FTP to Data

+ Direct HTTP(S) to Data

Additional Services

+ CDAWeb Inside IDL

+ Overview of Alternative Data Access Methods

+ Autoplot.org (non-NASA) interface to public CDAWeb database

+ Pre-generated Data and Orbit plots via SPDFs GIFWALK

Additional Resources

+ Usage Statistics

+ Space Physics Use of CDF

Coordinated Data Analysis Web (CDAWeb)

Public data from current and past space physics missions

NEW

July 25, 2018: Per a US Government directive, the SPDF web sites and web services (CDAWeb, SSCWeb, OMNIWeb, etc.) are now using the HTTPS protocol, with only TLS 1.1 and TLS 1.2 connections allowed. Some web service clients (IDL 7, Java 6, etc.) will no longer be able to connect. FTP services will be changing to only allow TLS-based connections (FTPS, FTP-SSL) in the near future.

PRIOR DATA & SOFTWARE UPDATES ...

Select zero OR more Sources
(default = All Sources if >=1 Instrument Type is selected)

Select zero OR more Instrument Types
(default = All Instrument Types if >=1 Source is selected)

☐ ACE

☐ AMPTE

☐ Activity Indices

☐ Electric Fields (space)

NASA Website for Space Missions

<https://cdaweb.sci.gsfc.nasa.gov/index.html/>

INTERMAGNET

www.intermagnet.org/index-eng.php

Zimbra: In arrivo | Structure | INFN Rom | Dictionary.com | Mea | WhatsApp | Geo-electric measure | Plotting service - Gec

Français English

INTERMAGNET

INTERMAGNET ▾ Data ▾ Observatories (IMOs) ▾ Participating Institutes Publications/Softwares ▾ How to Reach Us

History
Vision and Mission
Principles, Conditions, and Policies
Organizational Structure
Geomagnetic Information Nodes (GINs)
Geomagnetic Activity Map
FAQ

INTERMAGNET

International Real-time Magnetic Observatory Network

Welcome to **INTERMAGNET** - the global network of observatories, monitoring the Earth's magnetic field. At this site you can find [data](#) and information from [geomagnetic observatories](#) around the world.

The INTERMAGNET programme exists to establish a global network of cooperating digital magnetic observatories, adopting modern standard specifications for measuring and recording equipment, in order to facilitate data exchanges and the production of geomagnetic products in close to real time.

Where local support is lacking it is a further goal of INTERMAGNET to aid in the establishment of new observatories or to provide assistance with the upgrade and maintenance of existing facilities. Supplemental to this aim is the promotion of modern standards for measuring and recording the Earth's magnetic field. [INTERMAGNET is constituted from existing groups](#) whose primary task is one of geomagnetic measurement.

Member: **Associated:**

Date modified: 2018-06-18

Website for geomagnetic world data

<http://www.intermagnet.org/index-eng.php>

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14.55
17/09/2018

TEC and GNSS related DB

Madrigal CEDAR Database

- Upper atmospheric science DB
- Experiments and instruments driven
- Distributed architecture
- Accessible via web, FTP or API's

<http://cedar.openmadrigal.org/>



Ionosphere Prediction Service (IPS) webportal

- Solar, Ionospheric and GNSS performance products
- GNSS users oriented
- Real-time and archive data and products
- Customization of products and alerts allowed

<https://ips.telespazio.com/>



IPS Prototype Service Presentation

Welcome to the Ionosphere Prediction Service Web Portal!

The Ionosphere Prediction Service (IPS) is an initiative of the European Commission in the framework of the Galileo Programme.

IPS is a prototype of a service for the monitoring and prediction of the Ionosphere effects on the GNSS user. It is able to translate the observations of the sun and of the ionospheric activity into a prediction of the performance of the GNSS solution at user level.

The IPS service offers dedicated products for a set of identified GNSS User Communities, like Mass Market, Aviation, High Accuracy and Scientific Communities.

You can find a description of the IPS architecture at the "IPS Project" page of this web site and an overview of the available products in the "IPS products" section of this portal.

Upon request (using the "registration" form of the web portal) access can be granted to the GNSS users willing to test this service.

The "How to" section of this portal can provide users with a guide for the correct use of the features of the IPS service prototype provided by the IPS web portal.

For any question regarding registration or the web portal features, please send an email to IPS-helpdesk@telespazio.com

Special Announcements

IPS web site under construction

Current Space Weather Condition

PLL Tracking Error Long Term Forecasting at Global level
 22-May-2018 12:00:00 UT


 IPS (Ionospheric Prediction Service, 2018)

TEC and GNSS related DB

RINEX files repositories

- International GNSS service (IGS)
- UNAVCO
- EUREF
- RING

<http://www.igs.org/>

<http://www.unavco.org/>

<http://www.epncb.oma.be/>

<http://ring.gm.ingv.it/>

TEC and related products DB

- International GNSS service (IGS)
- ESA SSA-SWE
- DLR IMPC
- ROB
- IONORING

<http://www.igs.org/>

<http://swe.ssa.esa.int/>

<https://impc.dlr.de/>

<http://gnss.be/>

<http://ionos.ingv.it/ionoring/ionoring.htm>

and many many others...

Ionospheric scintillation and ionosonde data



electronic Space Weather
upper atmosphere

istituto nazionale di geofisica e vulcanologia

electronic Space Weather upper atmosphere

Ionospheric monitoring

Welcome!

Italy

Mediterranean Area

Antarctica

Equatorial Area

Host

Scintillation monitoring

Arctic

Antarctica

Mediterranean Area

New Monitoring Tools

Equatorial Area

Host

Riometer monitoring

Antarctica

Miscellanea

Available Data Statistics

Real-Time Ionospheric Monitoring

Login

User: luca.spogli@in...
Status: Active
IP Address: 192.135.27.141
Download Interval
Start Interval: unlimited
End Interval: unlimited
Av. Stations: aism0
Admin Only
Database: Available Data
Statistics: General Stats
Users: Manage Users
Logout
Total Website Accesses
Today 0
This Month 0
This Year 0
Monitoring Accesses
Scintillation 23301
Ionospheric 13707
Downloads 4820
User: luca.spogli@ingv.it - Feedback - Logout

The aim of the electronic Space Weather upper atmosphere project is to organize and standardize different kind of historical and real-time measurements acquired by the instruments installed by the upper atmosphere physics group of the Istituto Nazionale di Geofisica e Vulcanologia - Rome, Italy.

The INGV monitoring activities are focused on "Ionospheric monitoring", "Scintillation monitoring" and "Riometer monitoring".

electronic Space Weather upper atmosphere © Istituto Nazionale di Geofisica e Vulcanologia - Rome

electronic SPACE WEATHER upper atmosphere

HOME

ITALY

EUROPE

ARCTIC

ANTARCTICA

MEDITERRANEAN

SOUTH AMERICA

The electronic Space Weather upper atmosphere site is based on measurements performed by all the instruments installed by the "upper atmosphere physics group" of the Istituto Nazionale di Geofisica e Vulcanologia, Italy, and on all the related studies. The aim of the eSWua project is the realization of a hardware-software system to standardize historical and real-time observations for different instruments.

ISACCO Nyalesund OP [LAT: 78.92; LONG: 11.93] 2018-09-04T11:00:00+02:00

Geomagnet

Quiet

Solar

Minor

Ionosphere

Moderate

Scintillation

Quiet

WARNINGS OVER ITALY

The electronic Space Weather upper atmosphere site is based on measurements performed by all the instruments installed by the "upper atmosphere physics group" of the Istituto Nazionale di Geofisica e Vulcanologia, Italy, and on all the related studies. The aim of the eSWua project is the realization of a hardware-software system to standardize historical and real-time observations for different instruments.

Register

User Management

Statistics

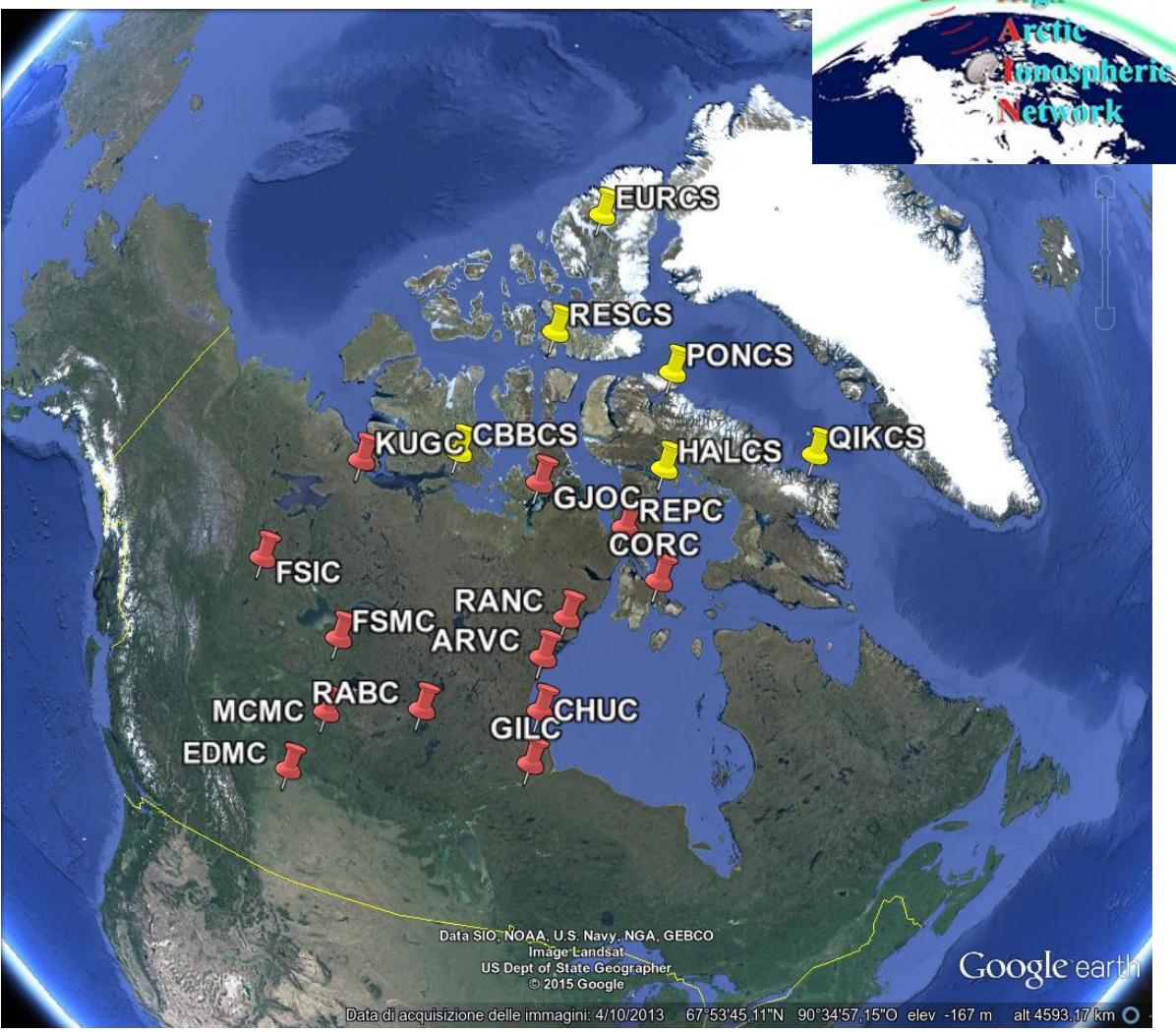
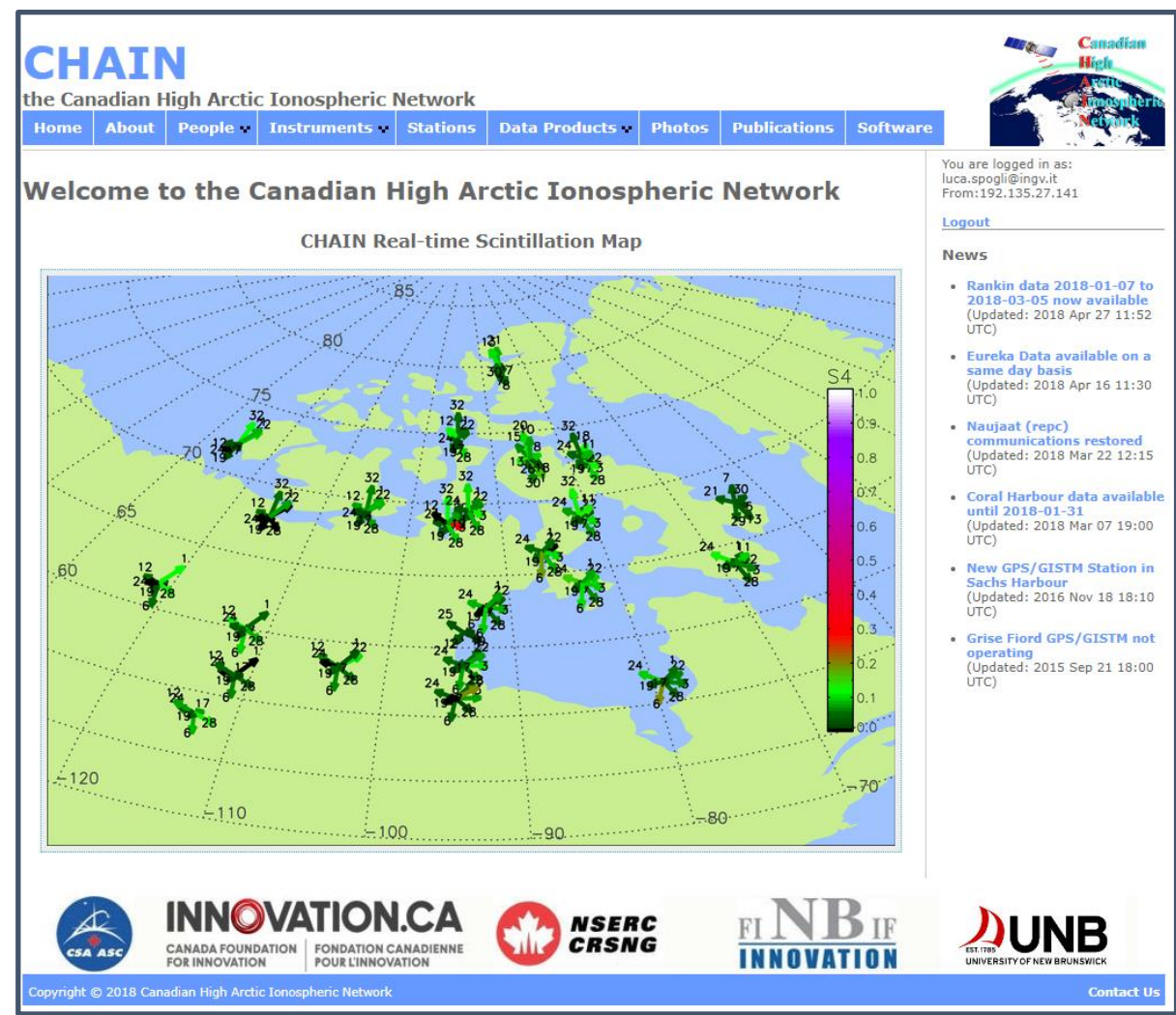
Contacts

eSWua © 2017. All Rights Reserved

ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

www.spaceweather.it
<http://www.eswua.ingv.it>

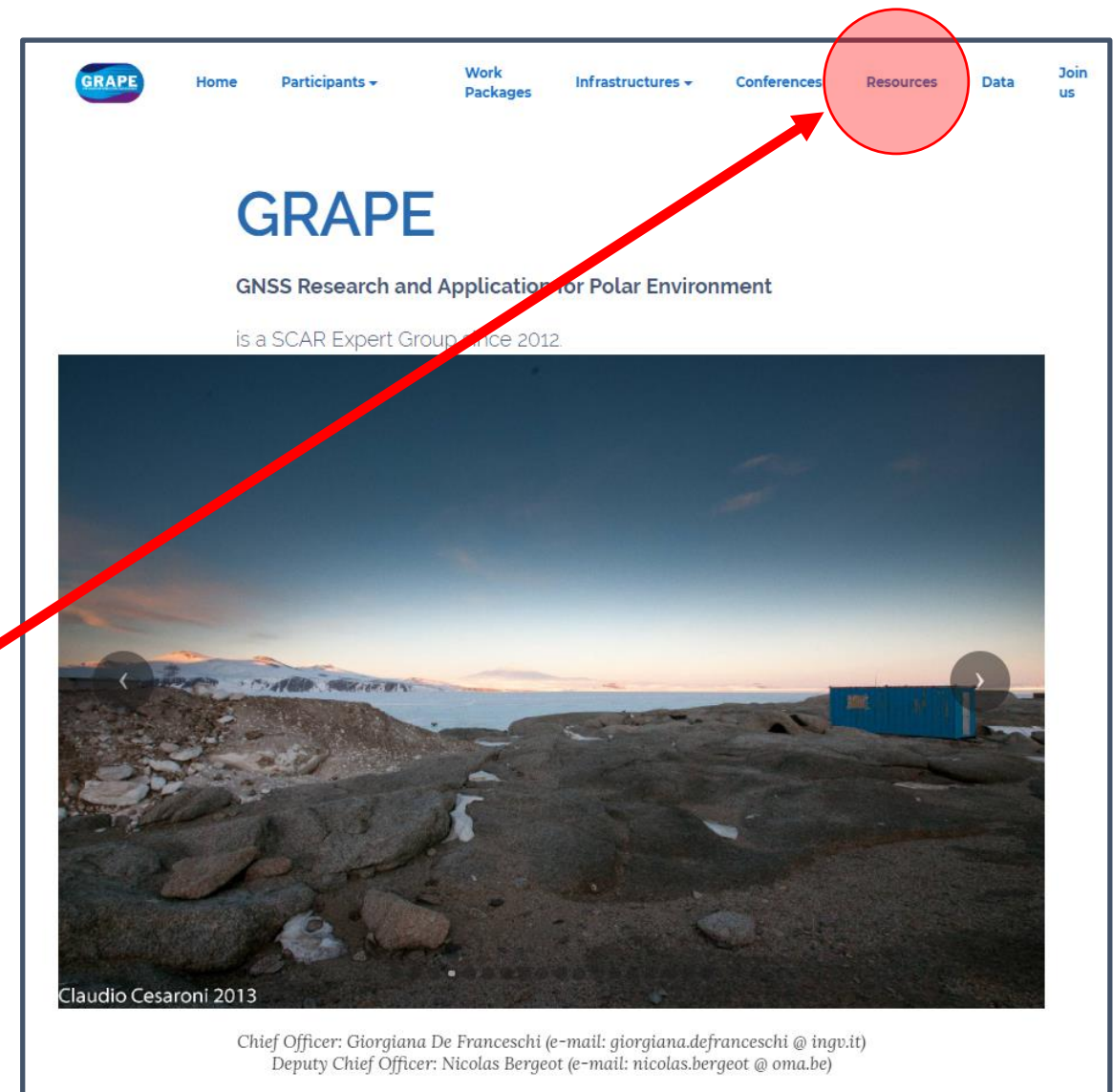
Ionospheric scintillation and ionosonde data



<http://chain.physics.unb.ca>

Ionospheric scintillation

More on scintillation data repositories in...



<http://grape.scar.org>

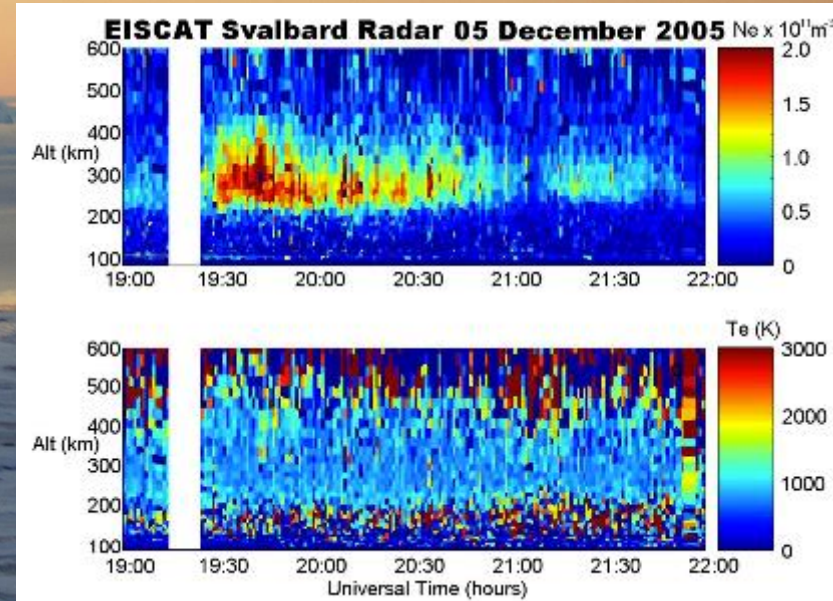
EISCAT

Radars at polar and high latitudes

Archive available at www.eiscat.se (click on Science, then schedule)

All Special Programme data is available after one year

All Common Programme data is available at once



EISCAT Scientific Association includes Norway, Sweden, Finland, China, Japan and UK

200 hours of observing time available for researchers based outside of these countries <https://www.eiscat.se/blog/2018/04/05/eiscat-peer-reviewed-program-experiments-2/>

EISCAT Radar Summer School 12th – 17th August 2019

<https://blog.sgo.fi/2018/06/eiscat-symposium-and-radar-school-2019.html>