



Istituto Nazionale di
Geofisica e Vulcanologia

Introduction on the INGV activities

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EARTHQUAKES

VOLCANOES

ENVIRONMENT





Istituto Nazionale di Geofisica e Vulcanologia



INGV was founded in 2000 (Law n.381 of 29 Sep. 1999) through a process of merging, reorganizing and rationalizing the entire national research network that revolves around:

- the assessment and mitigation of seismic and volcanic risk,
- the investigation of geophysical, seismic and volcanic phenomena, and
- the understanding of the mechanisms that control the evolution our planet.



Mission

- Observation and monitoring of geophysical processes in both the solid and fluid components of planet Earth
- Study and modelling of natural geophysical and volcanological processes
- Surveillance of the seismicity and volcanic activity of the entire national territory through state-of-the-art instrumental networks
- Development of original methods to evaluate a variety of natural risks (earthquakes, tsunamis, volcanoes, climate...), particularly focused on the Italian region
- Innovative research in Earth Sciences, focused on global climatic change, national security and sustainable development

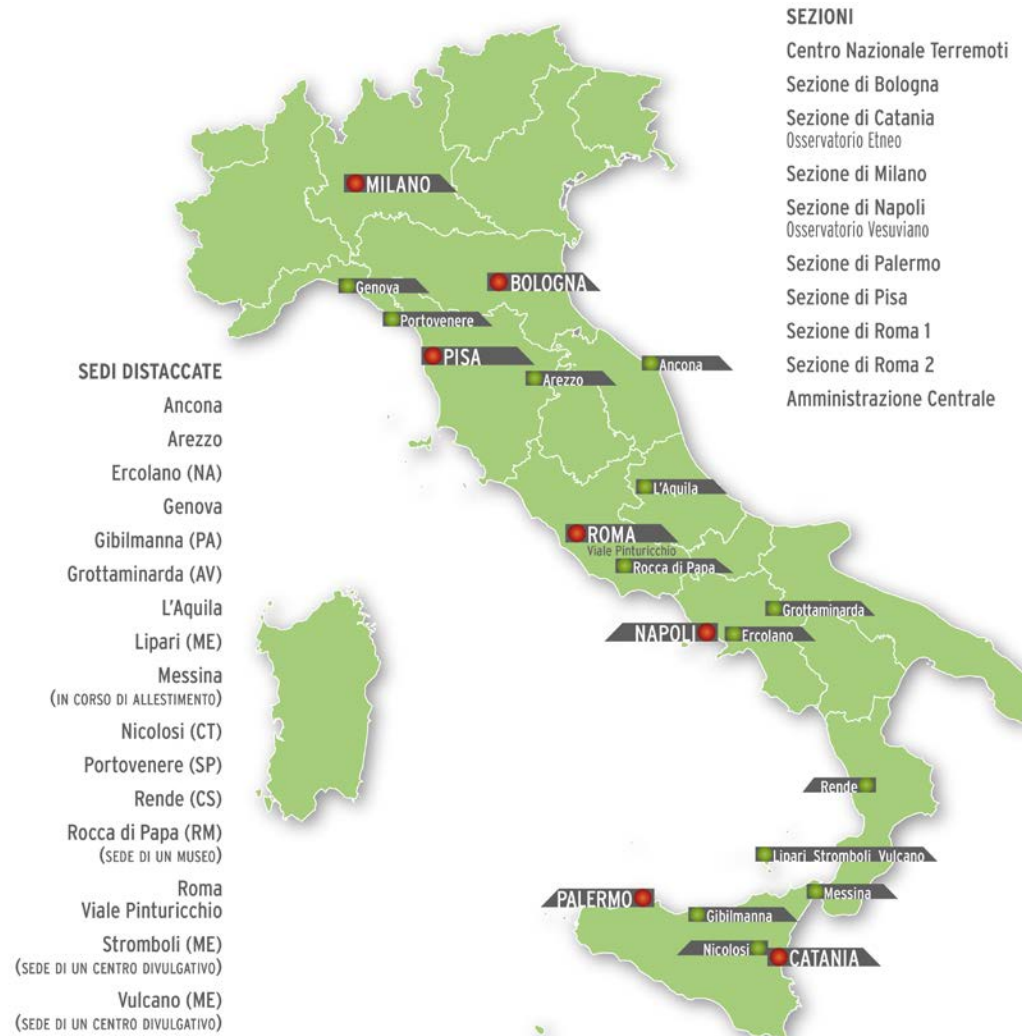


Seismic and volcanic surveillance

- INGV operates in close collaboration with the Ministry of Instruction, University and Research (MIUR) and has priority agreements with the Civil Protection Department (DPC) and with other authorities in charge of managing the emergencies, both on a national scale and on a local scale.
- INGV is in charge of the surveillance of the seismicity and volcanic activity of the entire national territory through state-of-the-art instrumental networks covering the national territory or concentrated around the active volcanoes. The incoming signals are transmitted in real-time to the operations rooms in Rome, Naples and Catania, where highly trained staff, present round-the-clock, analyze them to obtain the main parameters of the ongoing events and processes.



Divisions





Personnel

INGV is composed (as for March 2017) by:

658 personnel units with permanent contracts;

188 personnel units with temporary contracts;

+ 190 other units (research grants, collaborators and cooperating scientists).

Summing up to **1036 personnel units**
(scientists, technicians, administratives).





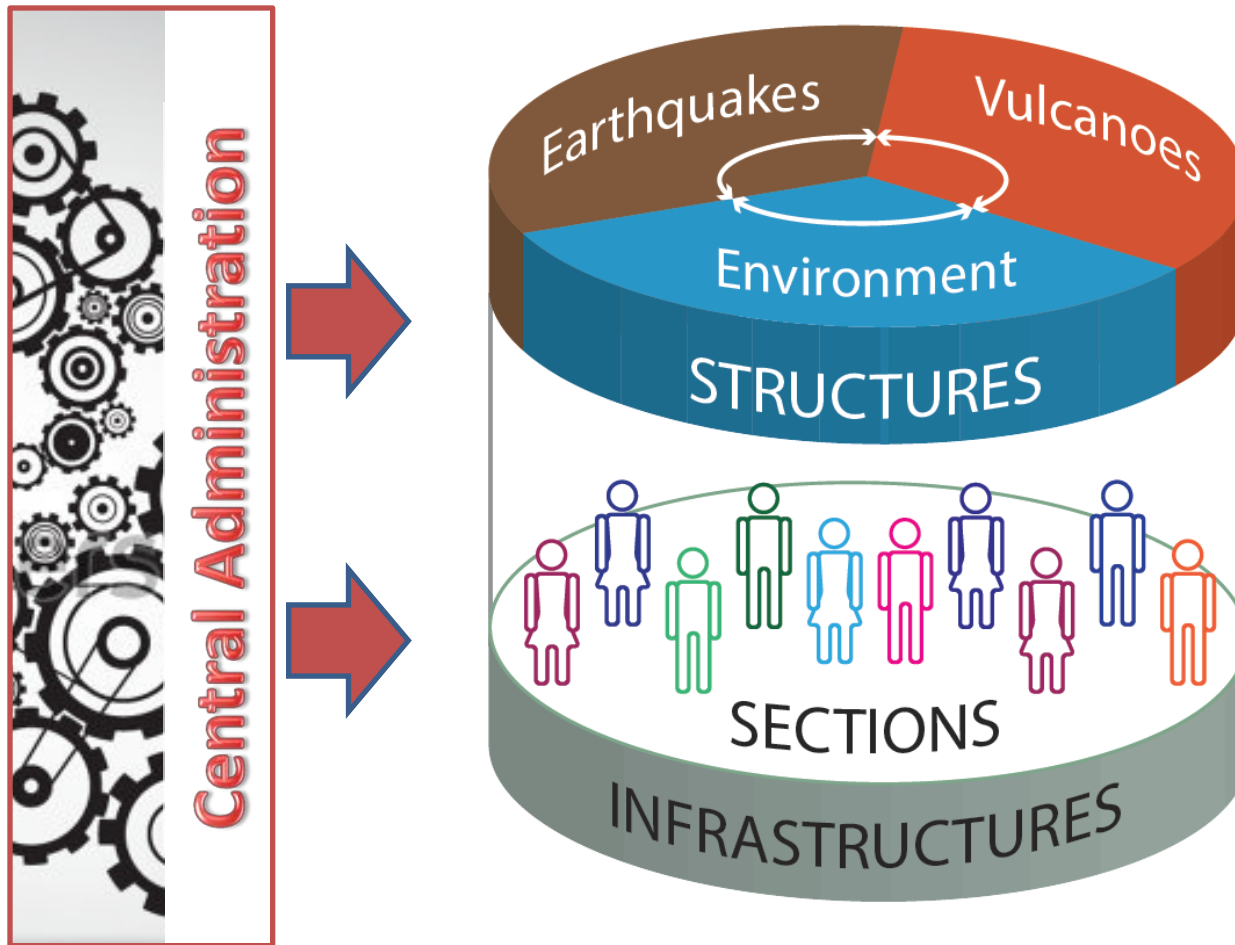
Departments

The Statute of INGV shows a research network based on three thematic **Departments**:

- Earthquakes
- Volcanoes
- Environment

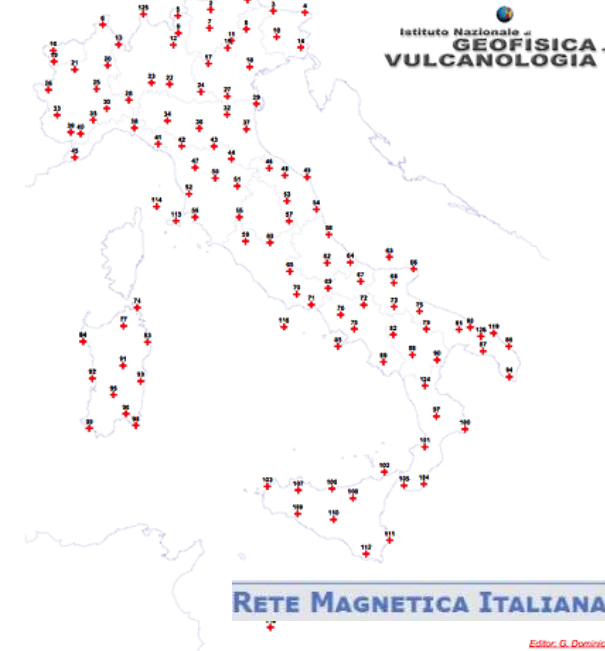
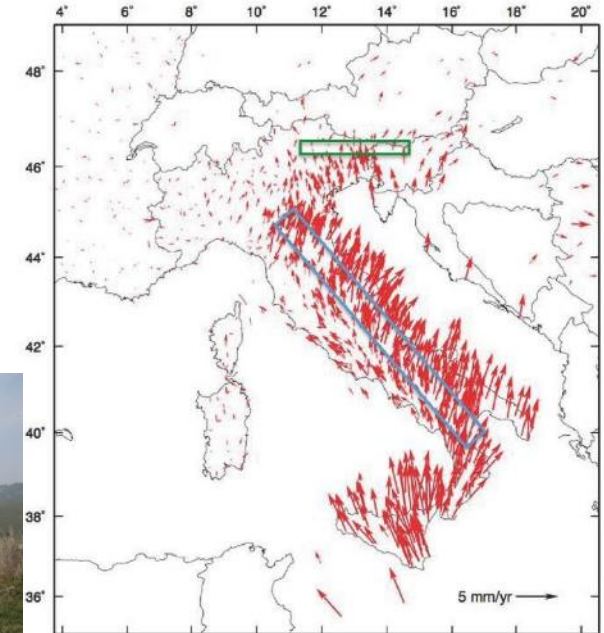


Scientific Organization





Monitoring networks





Observatories: geomagnetic field, ionosphere, volcanoes, marine processes...





Laboratories



Geochemistry



Petrology



HP-HT



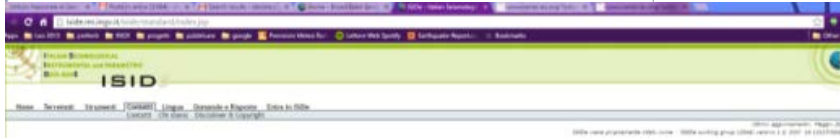
Paleomagnetism and Rock magnetism

Data Products (real-time data) and Software



INGV Istituto Nazionale di Geofisica e Vulcanologia
European Integrated Data Archive

Welcome to the Broad Band Network: Microseisms

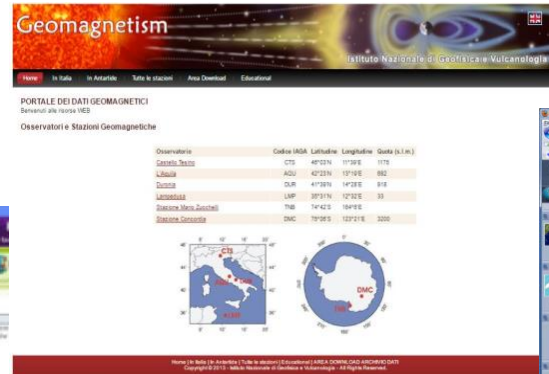


ISID

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Lista degli ultimi 20 eventi sismici registrati dalla Rete Sismica Nazionale
Questa lista si aggiorna ogni 10 secondi.

Ultimo aggiornamento (ora locale): 23/06/2016 12:00:03						
Orario (UTC)	M	Lat	Long	Prof (km)	Mca	Descrizione Evento
2016-06-23 08:40:48	4.0	42.8	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:39:49	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:38:50	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:37:51	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:36:52	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:35:53	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:34:54	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:33:55	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:32:56	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:31:57	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:30:58	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:29:59	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:28:59	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:27:59	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:26:59	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:25:59	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:24:59	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:23:59	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...
2016-06-23 08:22:59	4.0	43.0	13.2	10.0	M 4.0	ACQUEDOTTO SOTTO LA MONTAGNA DI S. MARINO ...



Geomagnetism

PORTALE DEI DATI GEOMAGNETICI
Borromini alla ricerca VES

Observatori e Stazioni Geomagnetiche

Observatorio	Codice IAGA	Latitudine	Longitudine	Quota (s.l.m.)
Castell. Dezza	CTS	48°02'N	10°58'E	1075
L'Aquila	AQU	42°52'N	13°19'E	850
Castel	CSR	41°20'N	14°23'E	310
L'Aquila	LAP	42°52'N	13°19'E	33
Stazione Mars. Borromini	TMB	14°42'N	16°45'E	3000
Stazione Campitelli	CMC	19°08'N	12°17'E	3000



electronic Space Weather upper atmosphere

Welcome!

The aim of the active project is the realization of a hardware software system to monitor the upper atmosphere in real time.

Register Your Account

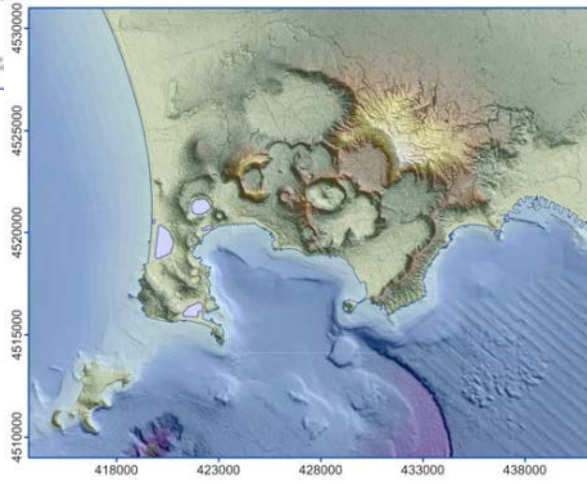
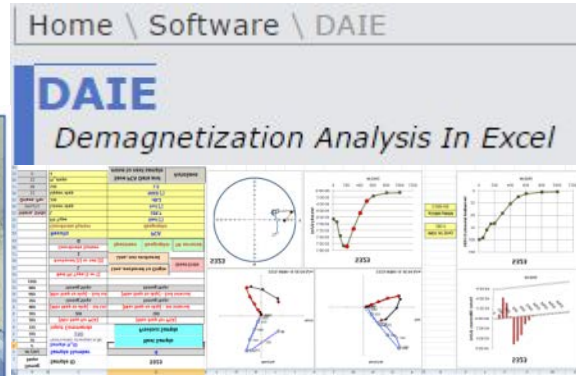


INGVCENTRONAZIONALETERREMOTI

Terremoto di magnitudo 2.7 del 09-09-2016 ore 21:22:07 (UTC) in provincia di Ascoli Piceno

Dati Evento: 09-09-2016 21:22:07 (UTC) 13 km, 4.5 magnitudo

Localizzazione: 42.86, 13.28

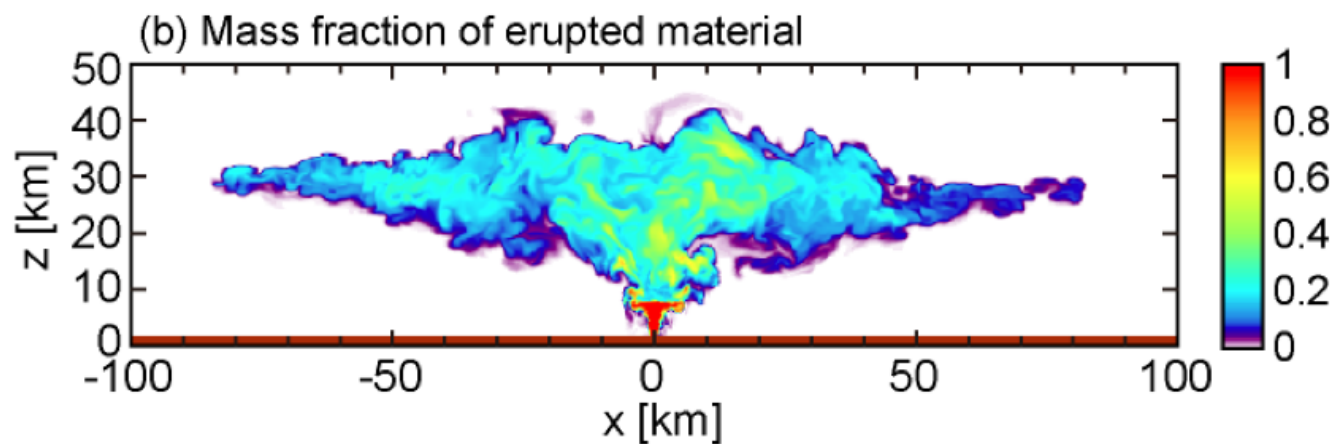
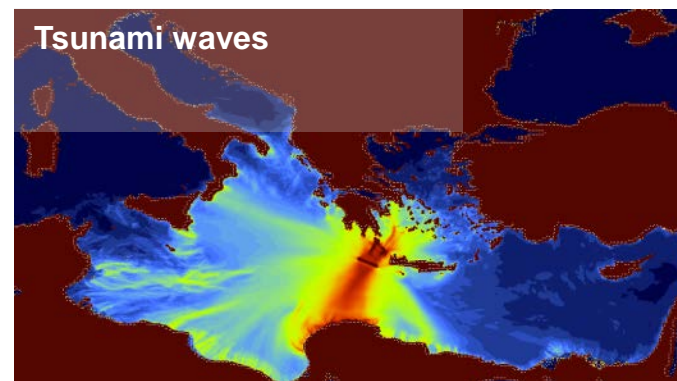
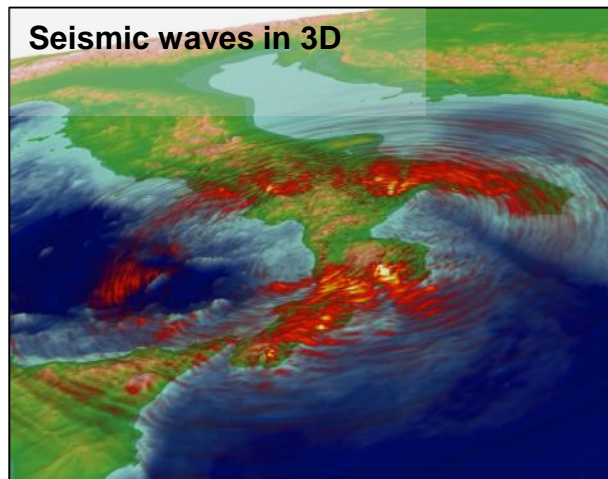
Home | Software | DAIE

DAIE
Demagnetization Analysis In Excel

Software interface for DAIE (Demagnetization Analysis In Excel). The interface displays a data table with columns for 'Year' and 'Value' and several graphs showing demagnetization curves and analysis results.



High-Performance Computing



Numerical modeling of volcanic eruptions

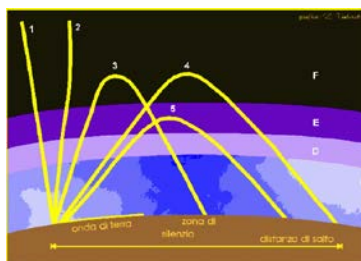
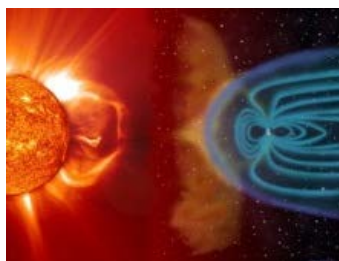


Environment Department

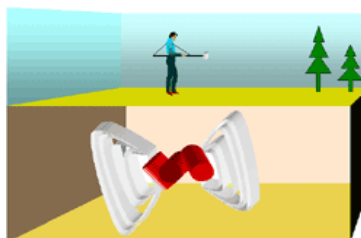
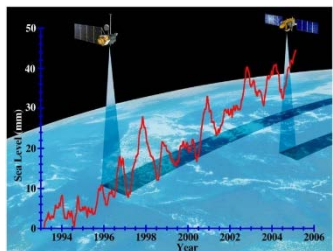




Environment | Research

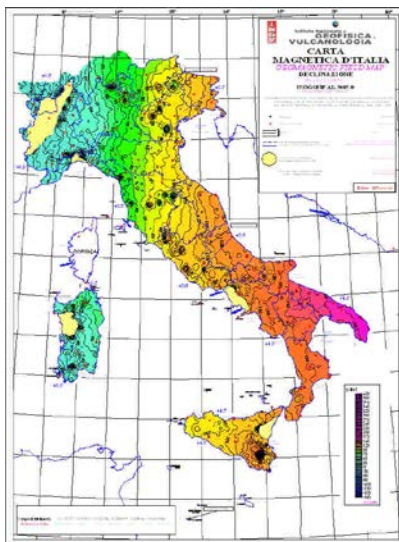
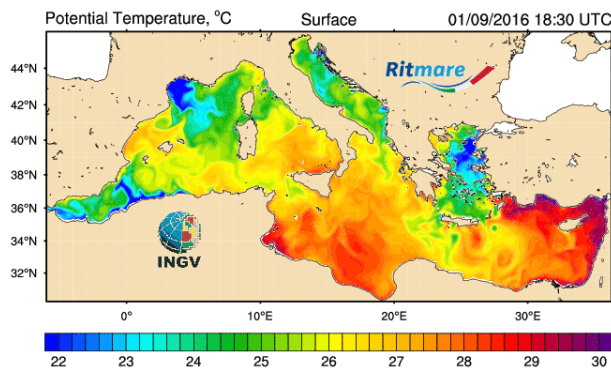


- Geomagnetism
- Paleomagnetism
- Upper atmosphere physics
- Operational Oceanography
- Climate
- Paleoclimate
- Polar research
- Fluid Geochemistry
- Exploration Geophysics





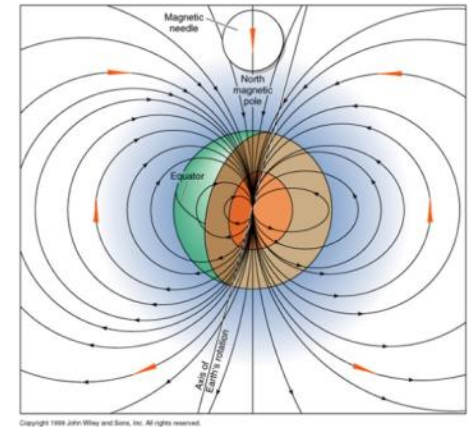
Environment | Services



- Bullettins
- Maps
- Real-timeData
- Databases
- Models
- Software
- Environmental monitoring
- Consulting
- Outreach



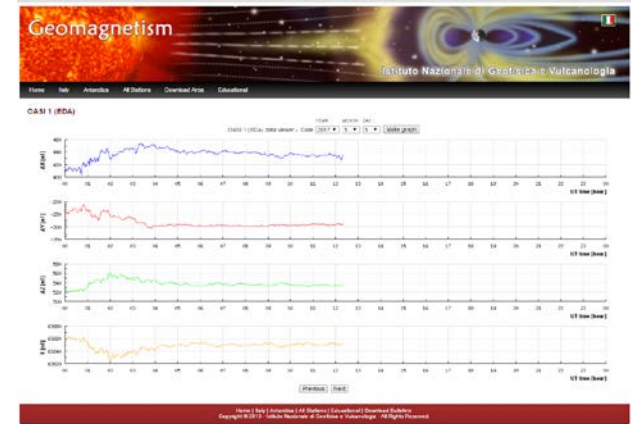
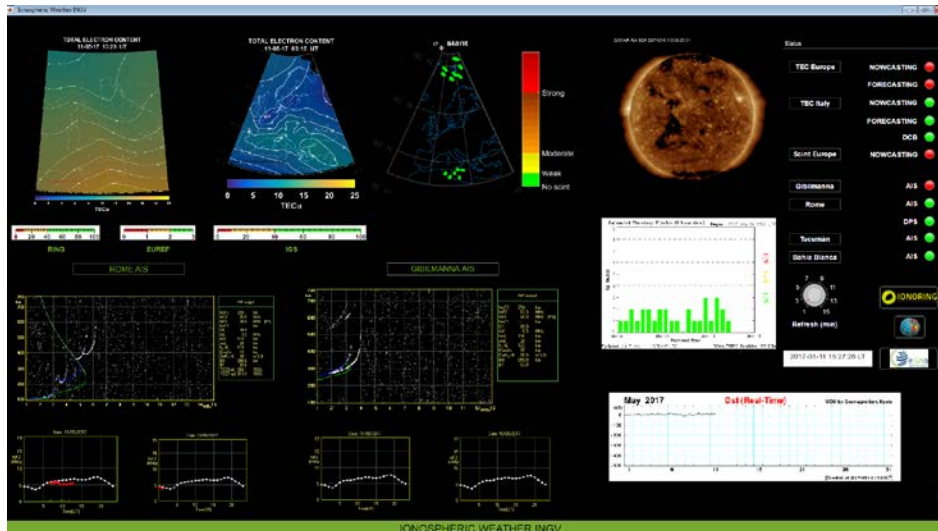
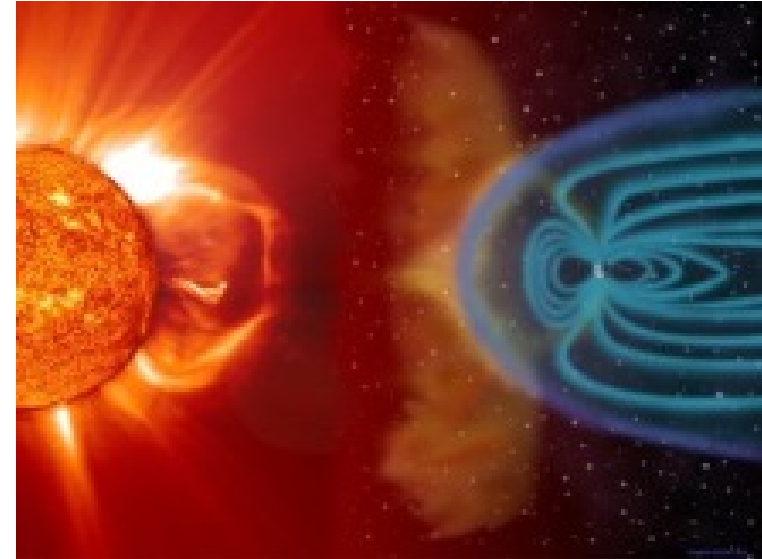
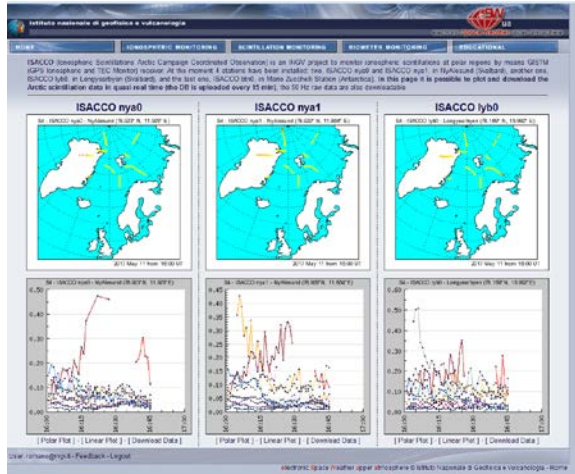
Geomagnetism and Paleomagnetism





Upper atmosphere physics

Space Weather and Sun-Earth interactions





Space Weather at INGV

- Monitoring Ionospheric and Geomagnetic parameters at mid, low and high latitudes
- Investigation on new models and indices
- Development of forecasting and alert tools
- Contribution to international initiatives
- Participation to international projects

*...ready to support a
National Space Weather Centre*

