



*GEO Data providers workshop 20, 21 April 2017, Florence, Italy*



**Istituto Nazionale di  
Geofisica e Vulcanologia**

***Organisation:***

The Istituto Nazionale di Geofisica e Vulcanologia (INGV) was born in 1999 through a merger of the former Istituto Nazionale di Geofisica, Osservatorio Vesuviano and three other institutions: Istituto Internazionale di Vulcanologia, Istituto di Geochimica dei Fluidi and Istituto di Ricerca sul Rischio Sismico.

INGV cooperates with universities and other national public and private institutions, as well as with many research agencies worldwide.

The main mission of INGV is the monitoring of geophysical phenomena in both the solid and fluid components of the Earth. INGV is devoted to countrywide seismic surveillance, real-time volcanic monitoring, early warning and forecast activities. State-of-the-art networks of geophysical sensors deliver a continuous flow of observations to the acquisition centers of Rome, Naples and Catania, where the data are analyzed around the clock by specialized personnel. In addition to being analysed for research and civil defence purposes, the data supplied by numerous monitoring networks are regularly distributed to the public institutions concerned, to the scientific community and to the public.

INGV pays special attention to Education and Outreach through publications for schools, scientific exhibitions and dedicated Internet pages.

SpacEarth Technology (SET) is the spin-off of INGV. The SET company works on several fields: Marine Monitoring, Upper Atmosphere Physics, Space Weather, Satellite Navigation and Positioning, Environmental Geophysics, Remote Sensing and Training. Realising innovative products and services is the goal of SET, based on the knowledge and technological transfer from the excellence in research results. SET has designed and carried out the Advanced Ionospheric Sounder Ionosonde (to investigate Earth ionosphere) and devices for seafloor observatories.

***How do you contribute to the GEO Vision?***

The high latitudes ionosphere contains the footprints of processes that have their origin in the interplanetary space. Here perturbation phenomena due to solar events have a high occurrence percentage even during solar minimum activity and, propagating towards middle latitudes with both different time delay and spatial distribution, can seriously degrade technological systems useful for human life. Our observations are tools for understanding the present conditions of Earth systems.

***Type of organization: governmental- NGO- UN..etc.***

INGV is a governmental institution, SET is a spin-off of INGV.

***Type of data:***

Type of data: GNSS (Global Navigation Satellite Systems) high rate sampling (50 Hz) measurements for monitoring of bipolar TEC (Total Electron Content) and Ionospheric Scintillations, addressed to the study of the ionospheric plasma dynamics and its related interaction with the outer space.

***Data policy adopted by your organization:***

The data policy adopted by our organization is the following: datasets are free available when the researcher decides to allow this. It implies that datasets can be visible only whether researcher wants to expose them. Otherwise, the data downloader must contact researcher to obtain data

***Why you are interested to join GEO- GCI***

We are interested to join Geo because it is a useful tool for researchers to find out among several datasets a specific data by using unique searching portal.

***How GEO could benefit your organization***

Geo would give us visibility and opportunity to share data with a great number of users and Institution.