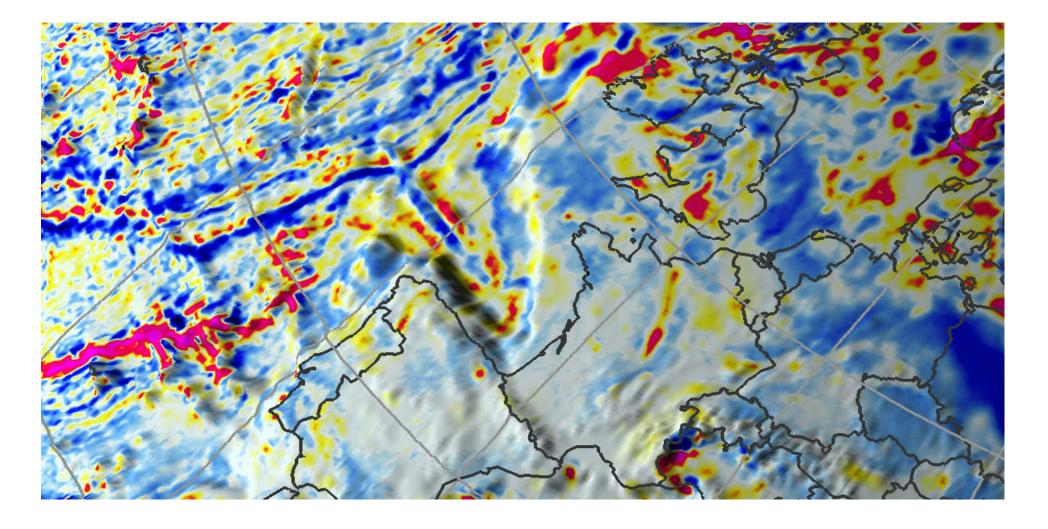


GEOMAGNETIC OBSERVATIONS

Thematic Core Service











Overview

- Geomagnetism deals with the **dynamics of the planet's magnetic field**, a powerful force that regulates many aspects of life.
- The planet's main magnetic field can occasionally be dominated by intense and rapid changes caused by processes on the Sun, known as geomagnetic storms.
- Geomagnetic observations are concerned with the study of these changes.





Geomagnetic Observations TCS

• The Geomagnetic Observation Thematic Core Service (TCS) uses high-resolution data and large datasets to strengthen the European collaboration on geomagnetic observations, which were made possible with the beginning of the digital era, to strengthen the European collaboration on geomagnetic observations.





Geomagnetic Observations TCS

 With the modernisation of geomagnetic data archival and distribution and the creation of new services for magnetotelluric data and geomagnetic models, the Geomagnetic Observations TCS aims to consolidate the geomagnetic community and break down barriers to data access.





Services

4 Community Portals

- INTERMAGNET
- IMAGE (International Monitor for Auroral Geomagnetic Effects)
- ISGI (International Service of Geomagnetic Indices)
- World Data Centre for Geomagnetism (Edinburgh)

19 DDSS (Data, Data Products, Software and Services)

divided into 4 categories:

- Geomagnetic data,
- Geomagnetic models,
- Geomagnetic indices and events,
- Magnetotelluric models and data.





Geomagnetic Observations TCS

- Accurate and integrated geomagnetic data is vital to the well-functioning of navigation systems, the interpretation of tectonic plates' movement, and the accuracy of mapping agencies, among other important applications.
- The Geomagnetic Observations TCS provides **usable and easy access data** within the EPOS infrastructure, thus establishing links with different disciplines in solid Earth Science.





Contacts

EPOS Geomagnetic Observations TCS mini-website

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