GNSS DATA AND PRODUCTS

Thematic Core Service
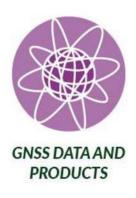
Overview

- **Global Navigation Satellite System** (GNSS) refers to a constellation of satellites providing signals from space.

- These signals **transmit positioning and timing data** to specific receivers, which use this data to determine location.

- GNSS data is widely used in the field of **geodesy**, the science of accurately measuring the geometric shape of the Earth, its orientation in space, and its gravity field.
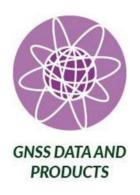
GNSS TCS

The GNSS Thematic Core Service (TCS):

- provides **access to GNSS data, products and services;**

- coordinates the **archiving of GNSS data, metadata and data products;**

- promotes best practices for **GNSS station operation, and data quality control and management**;

- maintains and develops **data products and open source software.**

Services

3 Community Portals

- M3G website
- GNSS Product Portal
- GNSS Data Gateway Portal

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

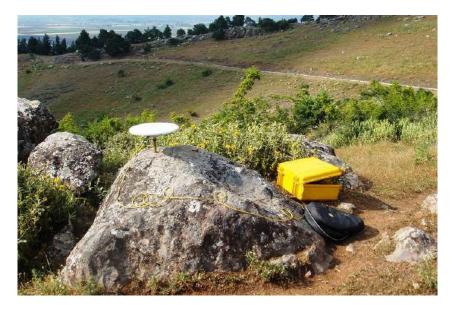*divided into 2 categories:*

- GNSS data
- GNSS data products

GNSS TCS

- The GNSS TCS provides access to a variety of European and regional geodetic data, metadata, products, and software, sustained by EUREF, an European organization, and regional GNSS networks

- Data and services (already existing or being implemented) will help the study of the Earth's surface motion in different timescales, such as the rapid shaking caused by an earthquake or the slowpaced movement of tectonic plates.

Contacts

EPOS TCS GNSS Data and Products mini-website

https://www.epos-eu.org/tcs/gnss-data-and-products

EPOS website

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