



**GNSS DATA AND  
PRODUCTS**

# **GNSS DATA AND PRODUCTS**

**Thematic Core Service**





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# 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.



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# 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.**





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# 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



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# GNSS TCS

- The GNSS TCS **provides access to geodetic data, metadata, products, and software**, sustained by EUREF, an European organization, and regional GNSS networks.
- Data and services provided by the GNSS TCS will help the **study of the Earth's surface motion in different timescales**, such as the rapid shaking caused by an earthquake or the slow-paced movement of tectonic plates.





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# Contacts

## **EPOS TCS GNSS Data and Products mini-website**

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

## **EPOS website**

<https://www.epos-eu.org/>

## **Email address**

info@epos-eu.org

