



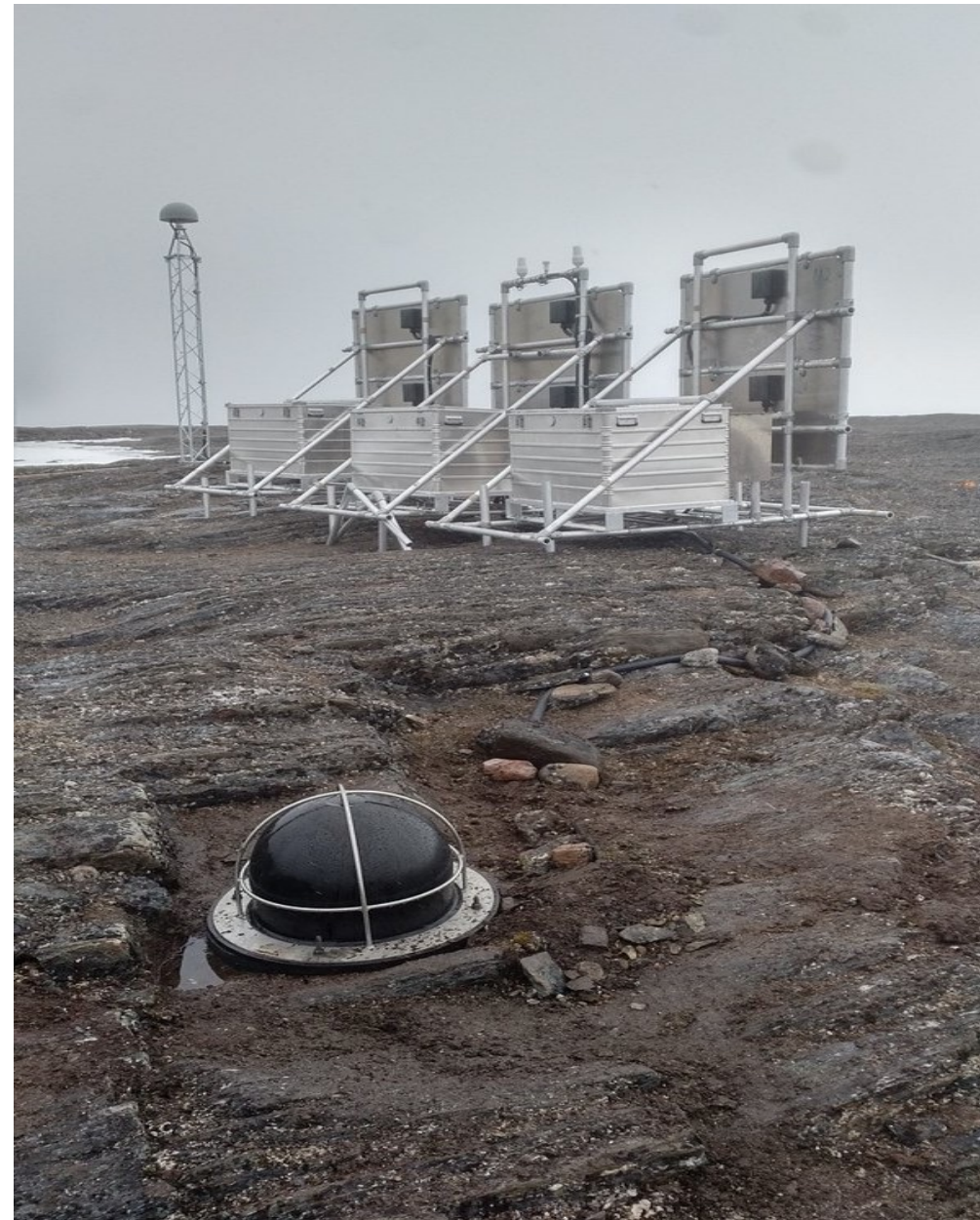
SEISMOLOGY

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Thematic Core Service



SEISMOLOGY





Overview

- Seismology is the study of **earthquakes and the propagation of seismic waves** through the Earth or through other planet-like bodies.
- Understanding the origin and the mechanics of earthquakes is crucial to **evaluate their hazards** and **mitigate the risks inherent to seismic events**.



Seismology TCS

- **EPOS Seismology Thematic Core Service (TCS)** coordinates the integration and access to various seismological and earthquake related data services.
- Seismology TCS gathers and provides data and scientific products coordinated by three prominent European infrastructures: **ORFEUS**, **EMSC**, and **EFEHR**.



Services

8 Community Portals

- ESMC Data Access)
- EDSF (European Databases of Seismogenic Faults)
- AHEAD (European Archive of Historical Earthquake Data)
- ORFEUS (Observatories and Research Facilities for European Seismology)
- EMSC (European-Mediterranean Seismological Centre)
- EFEHR (European Facilities for Earthquake Hazard and Risk)
- Risk Platform | EFEHR
- Hazard Platform | EFEHR



Services

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

divided into 3 categories:

- Waveform Services
- Seismological Products
- Earthquake Hazard and Risk Products



Seismology TCS

Within the EPOS framework, the Seismology TCS:

- **collects seismic information** from national and regional observatories, **harmonises it** and **distributes it** to different societal groups;
- **fosters the use and sharing of data** from different disciplines of the solid Earth;
- **contributes to expand societal knowledge** of earthquakes and other physical and chemical manifestations of the Earth.



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Contacts

EPOS Seismology TCS mini-website

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

EPOS website

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

Email address

info@epos-eu.org

