SEISMOLOGY

Thematic Core Service
Overview

• Seismology studies earthquakes and the propagation of seismic waves through the Earth or through other planet-like bodies.

• Investigating the origin and the mechanics of earthquakes is crucial to assess their hazards and mitigate the risks inherent to seismic events.
Seismology TCS

• The EPOS SEISMOLOGY TCS provides access to seismological and earthquake-related information through standardized services and APIs, and coordinates the integration of these services on the EPOS Data Portal.

• The EPOS SEISMOLOGY TCS is built on three well-established European infrastructures: ORFEUS, EMSC and EFEHR.
Services

• The services offered by EPOS SEISMOLOGY TCS encompass the community data access portals operated by:
  • ORFEUS (waveform data and related products and services)
  • EMSC and AHEAD (earthquake parameters and other seismological products)
  • EFEHR (seismic hazard and risk products and services).
Services

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

divided into 3 categories:

• Waveform Services
• Seismological Products
• Earthquake Hazard and Risk Products
Seismology TCS

- As part of EPOS, EPOS SEISMOLOGY TCS fosters the use and sharing of data from different disciplines of the solid Earth, contributing to expand societal knowledge not only of earthquakes but also of other physical phenomena of the Earth.
Contacts

EPOS Seismology TCS mini-website
https://www.epos-eu.org/tcs/seismology

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