VOLCANO OBSERVATIONS

Thematic Core Service
Overview

• Volcanology deals with the study of volcanoes and volcanism, which concerns the **geological, geophysical and geochemical** phenomena characterizing volcanic activity.

• Volcanic activity can impact climate changes and ecosystems. Thus, **scientific investigations and real-time monitoring of volcanoes are essential** to mitigate the associated risk of volcanism and forecast eruptions.
Volcano Observations TCS

The Volcano Observations Thematic Core Service:

• integrates **seismic, geodetic, electromagnetic, geochemical, and environmental** data, collected by thousands of operating stations located around European volcanoes;

• consolidates **multidisciplinary data**, and

• offers access to a **portfolio of data, products and services** to improve the knowledge of volcanic processes.
Services

3 Community Portals
- FUTUREVOLC
- MEDSUV
- EUROVOLC

45 DDSS (Data, Data Products, Software and Services)
divided into 7 categories:
- Seismological data
- Geodetic data
- Geochemical data
- Satellite data
- Ground-based remote sensing data
- Volcanological / Petrological data
- Geohazards products
Volcano Observations TCS

• The Volcano Observations community integrates the experience of the main European Volcano Observatories and Research Institutions.

• Volcano Observations TCS broadens the current understanding of the physical and chemical processes of volcanoes.

• Society can benefit from the knowledge and tools to monitor volcanic activity and to assess volcanological hazard.
Contacts

EPOS Volcano Observations TCS mini-website
https://www.epos-eu.org/tcs/volcano-observations

EPOS website
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