

EUREF's contribution to EPOS' GNSS Services

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Abstract. The European Plate Observing System (EPOS) is establishing a multidisciplinary research platform for Solid Earth sciences in Europe (<https://www.ics-c.epos-eu.org/>). The European Research Infrastructure Consortium (ERIC) has provided to EPOS a legal personality and capacity that is recognized in all European Union Member States. EPOS is currently in its Pilot Operational Phase, which is a 3-year transition period that started in 2020 in preparation of the Operational Phase of EPOS. The system gathers input from e.g., geology, seismology, satellite data, and GNSS. By linking hundreds of individual research infrastructures located in European countries, EPOS ERIC is providing open access to a large pool of integrated Solid Earth science data, data products, and facilities.

The GNSS component of EPOS (EPOS-GNSS) provides access to GNSS data, metadata, and products from as many as possible permanently tracking GNSS stations in Europe. These efforts are made together with the EUREF community from which many members helped to construct EPOS and contribute with data and pre-operational services to EPOS. Therefore, the partnership between EUREF and EPOS is crucial and it is formalized through a Memorandum of Understanding (MoU). In this MoU, EUREF and EPOS engage to use harmonized standards and guidelines, develop common components, inform each other on progress, projects or initiatives, and raise awareness of the complementarity of EUREF and EPOS.

We will show an overview of the status of EPOS' pre-operational GNSS services. In addition, we will illustrate how EUREF, with expertise in reference frames, and EPOS, aiming at supporting Earth science applications, are in practice collaborating towards the delivery of common services.