



## **The contribution of the GGOS-PL network to EPOS**

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European Plate Observing System (EPOS) is a research infrastructure and e-science for data and observatories on earthquakes, volcanoes, surface dynamics and tectonics. The EPOS Working Group 4 “GNSS data and other geodetic data” (WG4) was established to set up the basis for the definition of a new geodetic e-infrastructure concept. The International Association of Geodesy (IAG) has organized all its observation activities under the umbrella of the Global Geodetic Observing System (GGOS) to provide the geodetic infrastructure necessary for monitoring the Earth system and for global change research.

In the framework of GGOS the geometric space techniques (SLR, GNSS, DORIS, InSAR, altimetry), gravimetric space and terrestrial techniques (orbit analysis, high-low satellite-to-satellite tracking, low-low satellite-to-satellite tracking, satellite gradiometry, terrestrial and airborne gravimetry), geodetic space techniques providing Earth rotation parameters (VLBI, LLR, SLR, GNSS as well as the relevant astrometric techniques and missions) and atmospheric sounding techniques (GNSS-to-LEO and GNSS to Earth) with respective models are integrated.

Polish research institutions providing geodetic observations in the framework of the IAG services (including GGOS) have signed in 2011 an agreement on the establishment of research network GGOS-PL integrating research activity of eight Polish observatories. The objective of GGOS-PL is to conduct coordinated joint research projects and joint activities to raise standards and services. GGOS-PL is open to cooperation with national and international research institutions involved in monitoring the Earth and its environment.

The paper presents the current state of activities of Polish research teams related to EPOS and future plans of GGOS-PL network concerning interdisciplinary research on Earth system processes.