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## **Permanent GNSS array in the Czech Republic benefits geodetic and geodynamical applications**

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A system of permanent GNSS operational stations in the Czech Republic has been in operation since 2005. This permanent observation system of a high density is used for the new implementation and maintenance of the ETRS on the national level, for its further densification using very extensive GPS measurements carried out by the National Mapping and Cadastre Agencies in 1995 - 2007 as well as for the rectification of the user geodetic reference system. Time series of GNSS permanent observations provide a frame for geodynamical interpretations, support meteorological investigations, and, in combination with observations related to gravity space, provide an important information collected by the global geodetic observation system. Methodologies used in different applications are briefly described and first results are presented.