

Regional Reference and Observing Systems with Europe as Case Study

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SUMMARY

This paper will give an overview of the work done in Europe, as well as in Sweden, to adopt to the global reference system as well as try to describe the importance and the role of CORS in a regional and global sense. EUREF is the IAG Reference Frame Sub-Commission for Europe. EUREF deals with the definition, realization and maintenance of the European Reference Frame - the geodetic infrastructure for multinational projects requiring precise geo-referencing (e.g. three-dimensional and time dependent positioning, geodynamics, precise navigation, geo-information) - in close cooperation with the IAG components (Services, Commissions, and Inter-commission projects) and EuroGeographics, the consortium of the National Mapping Agencies (NMA) in Europe. EUREF has been developing a set of activities related to the establishment and maintenance of ETRS89 (European Terrestrial Reference System) and EVRS (European Vertical Reference System). The ETRS89 is accessed through the EUREF Permanent Network (EPN), a science-driven network of continuously operating GPS reference stations with precisely known coordinates in the ETRS89.

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