



## **Determination and Maintenance of the Galileo Terrestrial Reference Frame**

Mathias Fritsche and the GGSP consortium\* and Galileo project team\* Team

Deutsches GeoForschungsZentrum GFZ, Potsdam, Germany (mathias.fritsche@gfz-potsdam.de)

A highly precise and stable Galileo Terrestrial Reference Frame (GTRF) is a crucial prerequisite for the provision of precise Galileo products and related services. The GTRF determination shall be compatible with the latest International Terrestrial Reference Frame (ITRF) providing the same level of accuracy, long-term stability, and reliability to the maximum extent possible. The connection to ITRF is realized and validated by stations of the International GNSS Service (IGS) and by geodetic local ties to stations equipped with other geodetic techniques. Primary GTRF input data are provided by the Orbit Validation Facility (OVF) including precise satellite orbit and clocks, ground tracking station coordinates and Earth rotation parameters. The OVF service is delivered by the GGSP consortium, a group of five European institutes having a strong geodetic background. In this presentation, we provide an up-to-date overview on the latest GTRF release and the current OVF status.