



The role of CGS/ASI in the Mediterranean area

Giuseppe Bianco (1), Vincenza Luceri (2), and Rosa Pacione (2)

(1) Centro di Geodesia Spaziale “G. Colombo”, Agenzia Spaziale Italiana, 75100, Matera, Italy, (2) e-GEOS, Contrada Terlecchie, 75100, Matera, Italy

The Centro di Geodesia Spaziale “G. Colombo” (CGS), of the Italian Space Agency (ASI), plays an important role in the geodetic research and products devoted to the Terrestrial Reference Frame realization. Global and regional geodetic products, based on the three space geodesy techniques hosted by CGS (SLR, VLBI, GNSS) are regularly submitted to the geodetic international organizations (IERS, ILRS, IVS, IGS). Moreover, the CGS hosts and operates an absolute gravimeter.

Several space geodetic solutions are produced on a regular basis at the CGS geodetic data analysis center, such as daily GPS solutions of the station coordinates in the European area submitted to EUREF as well as daily and weekly estimates of the worldwide SLR network coordinates. In addition, the CGS produces multi-year VLBI and SLR solutions used as reference frame in the combination of multi-technique geodetic solutions.

ASI/CGS manages the Italian GNSS fiducial network and delivers GNSS data to the users through the EUREF local data center GeoDAF. The permanent Italian geodetic network is still increasing in size and in the near future it will provide a challenging insight of the kinematics of the central Mediterranean area.