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Geodetic Activities at CERN for Current and Future Projects

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A number of geodetic activities are in progress to provide the necessary infrastructure for the High Luminosity LHC (HL-LHC) project. The results from these activities will also provide the opportunity to investigate and resolve known anomalies identified in the CERN geodetic reference systems, and related parameters, which would benefit this and future projects.

A new high precision GNSS measurement of 15 pillars of the surface geodetic reference network has been integrated into the network, and the Gyromat-2000 and Mekometer ME5000 instruments have been put back into service. Work to control and establish reference azimuths for the HL-LHC, at two points around the LHC ring for the new civil engineering works, are in progress, and our long distance geodetic baseline has also been re-measured with the Mekometer ME5000, for the use of the civil engineering teams. These activities, together with the ongoing and planned future work, are presented.

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