



CODE's contribution to the IGS MGEX

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The Center for Orbit Determination in Europe (CODE) is contributing as a global analysis center to the International GNSS Service (IGS) since many years. The processing of GPS and GLONASS data is well established in CODE's ultra-rapid, rapid, and final product lines.

Since 2012 CODE contributes to the "Multi GNSS EXperiment" (MGEX), launched by the IGS as a testbed for the incorporation of new GNSS and their signals into the existing IGS processing chains and software packages. The focus of CODE's MGEX activities was on Galileo so far. Comparisons with other groups results proved the quality of CODE's Galileo orbit (based on a 3-day long-arc solution) and clock products.

The MGEX processing at CODE is currently extended to the BeiDou system, which will result in a fully consistent quadruple-system solution including GPS, GLONASS, Galileo, and BeiDou. We present the latest status of the CODE MGEX processing. The quality of the orbit and clock solutions will be evaluated. The characteristics and the impact of the contributing GNSS on the products will be assessed.

The CODE MGEX orbit and clock products are publicly available in the IGS MGEX products directory at the CDDIS data center: <ftp://cddis.gsfc.nasa.gov/gnss/products/mgex> (the solution ID "com" stands for CODE-MGEX).