

Status of EPN coordinate solutions provided by WUT-EUREF

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Status of the switch to IGS20 in EPN

- IGS switched from IGb14 to the IGS20 reference frame on 27 November 2022
- The switch to the IGS20 in EPN analysis in progress
 - details concerning processing strategy were finalized
 - presently 12 (of 17) AC provide solutions in IGS20
- The submission of combined solutions stopped until all ACs are ready to provide IGS20 solutions
- New EPN Analysis Centres at GeoForschungsZentrum, Potsdam (GFZ)
- Reprocessing of EPN data from years 1996-2022 to be started soon

Status of the switch to IGS20 in EPN

Characteristics of new processing standards:

- The usage of consistent 3 GNSS IGS AC products
- Adoption of the new EPN antenna model
 - based almost exclusively on igs20.atx
 - additional calibrations allowed (for antennas not included in the IGS model and not installed on IGS stations)
- Correction of ground antenna misorientations
- The usage of GPS receiver antenna phase center corrections for GLONASS or Galileo observations not allowed
- VMF3 for troposphere modelling
- New ocean tide loading model: FES2014b
- New IGS filename convention adopted for EPN products, e.g.:
 - Old name: eur22380.snx.Z
 - New name: EUR00PSSNX20223310000_01D_01D_SOL.SNX.gz