



Activities of the EUREF Governing Board

Wolfgang Söhne



### Overview



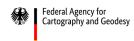
- EUREF Governance
  - GB meetings
  - Cooperations
- **EUREF Components** 
  - EPN / EPN CB
  - EPN Coordinators
  - EUREF Working Groups
  - Reference Frames







- GB meetings 2023/2024
  - Fall 2023 meeting (GB93a+b): online 21.10.2023 + 04.11.2023
  - Spring 2024 meeting (GB94): hybrid 06.+07.02.2024 (in-person in Brussels)
  - Summer 2024 meeting (GB95a+b): online 13.05.2024 and hybrid 04.06.2024 (in-person in Barcelona)

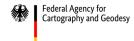






#### Cooperations

- United Nations Committee of Experts on Global Spatial Information System (UN-GGIM): Europe
  - One of six Working Groups is "Geodetic Reference Frames in Europe" (GRF)
  - Chair of WG GRF, Jeffrey Verbeurgt (belgium), at GB95a meeting
  - Representation of GRFs on a political (and legal) level
  - 11th Plenary Meeting of UN-GGIM: Europe June 19-20 in Geneva, Switzerland
- Global Geodetic Center of Excellence (GGCE)
  - Head of GGCE is Nicholas Brown (Australia)
  - Digital meetings with many groups and organisations worldwide, e.g. EUREF







#### Cooperations

- European Plate Observing System (EPOS)
  - MoU between EUREF and EPOS ERIC
  - Several relations between EUREF and EPOS Thematic Core Service (TCS) "GNSS Data and Products"
  - EUREF presentation by J. Legrand at EPOS Days in March 2024
  - Participation of M. Manunta of TCS "Satellite Data" at GB95a
  - Mainly working with InSAR data from Copernicus satellites
  - Need geodetic reference so far from outside EPOS
  - EUREF-EPOS Workplan 2024-2025 presented at GB94 meeting and signed by both partners
  - → presentation by C. Bruyninx on Thursday, 13:30

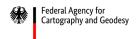






#### Cooperations

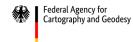
- Copernicus Climate Change Service (C3S)
  - Goal: increasing the number of datasets -> implementation of a global GNSS data repository for climate studies
  - Request for "your collaboration for negotiating the access of the GNSS RINEX files from EUREF archive for this Copernicus activity over long term"
  - Similar request to the International GNSS Service (IGS)
  - Meeting of EUREF GB members with C3S members on May, 14
  - Aspects to consider
    - Usage of EPN data and products (e.g. EPN repro) is appreciated
    - Duplicating archives seems not to be the optimal way forward use web services instead
    - Licensing aspects
    - Visibility and usage of EUREF components important for our justification
  - → poster presentation by J. Jones







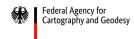
- Cooperations
  - Central European GNSS Research Network (CEGRN)
    - CEGRN Consortium established in 2001
    - MoU between EUREF and CEGRN
    - New partners and new members (Bulgaria, Romania, Poland, Serbia)
    - Effort in "horizontal" and "vertical" cumulative solutions and time series analysis
    - → presentation by J. Zurutuza on Thursday, 13:45







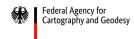
- > EPN / EPN CB
  - Resolution no. 1 of 2023
    - Delivering "old" data done
    - Usage of M3G tool
    - → presentation by C. Bruyninx on Thursday, 09:55
  - Usage of and inconsistencies in using long product filenames
    - Ref.: "Guidelines for long product filenames in the IGS", v2.1 (April 2024)
      AAAVPPPTTT\_YYYYDDDHHMM\_LEN\_SMP\_CNT.FMT
    - EUROOPEFIN -> EUROOPSFIN
    - ???00PSFIN -> ???0EPNFIN
    - Identical renaming by BEV and BKG RDCs end of May
    - How to use the long product filenames in case of different frame realizations?
  - → presentation of C. Bruyninx on Wednesday, 11:10







- EPN Coordinators
  - Analysis Center Coordinator
    - Intensive combination tests following GPSweek 2238
    - Contributions of all 17 ACs available soon
    - → presentation by T. Liwosz on Wednesday, 13:30
  - Troposphere Coordinator
    - Resuming combination after GPSweek 2238
    - Development of rapid combination
    - → presentation by R. Pacione on Wednesday, 14:10
  - Reference Frame Coordinator
    - First cumulative solution after GPSweek 2238 for testing
    - C2295 as "hybrid" solution
    - → presentation by J. Legrand on Wednesday, 13:50







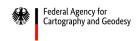
- EUREF Working Groups
  - EPN Reprocessing WG
    - Resolution no. 3 in 2023
    - EPN Repro3 is in delay, but ongoing
    - 16 of 17 Analysis Centres are actively contributing
    - Depending very much on processing power
    - Some ACs already finalized
    - Some re-reprocessing necessary
    - → presentation by T. Liwosz on Wednesday, 13:30
  - WG on EPN Densification
    - Most recent solution is D2200
    - Waiting for the finalization of EPN repro3
    - Benchmark test in between?
  - WG on Deformation Models







- EUREF Working Groups
  - WG on European Height Reference Surface
    - Several new data included
    - Working on a new CRS-EUv2 database
    - → presentation by J. Schwabe on Thursday, 09:00

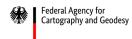




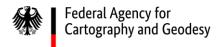
#### Reference Frame



- > EVRS/UELN
  - New data from Moldova, new border connections
  - Investigations on the use of hydrodynamic leveling
  - $\rightarrow$  presentation by M. Sacher on Thursday, 09:20
- > ETRS89
  - Derivation of ETRF2020
  - Resolution no. 1 of 2023
    - → Update of EUREF Technical Note no. 1 done
  - Resolution no. 2 of 2023
    - First online meeting for volunteers this spring
    - → presentation by M. Lidberg on Wednesday, 10:30
  - Update of ITRF2020
    - → presentation by Z. Altamimi on Wednesday, 10:50









# Thank you for your kind attention!

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