



Activities of the EUREF Governing Board

Wolfgang Söhne



Overview



- EUREF Governance
 - GB Meetings
 - Cooperations
 - GB Membership
- Reference Frames
- EUREF Components
 - EPN / EPN CB
 - EPN Coordinators
 - EUREF Working Groups
- EUREF Campaigns







- ➤ GB meetings 2024/2025
 - Fall 2024 meeting (GB96 I and II): online 15.10.2024 + 12.11.2024
 - Spring 2025 meeting (GB97 I and II): online 12.02.2025 + 28.02.2025
 - Summer 2025 meeting (GB98 I, II and III): online 16.05.2025 + 18.06.2025, (short) in-person during the symposium (Wednesday, 17:00)
 - Fall 2025: extended in-person meeting?!







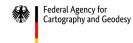
- United Nations Committee of Experts on Global Spatial Information System (UN-GGIM): Europe
 - One of six Working Groups is "Geodetic Reference Frames in Europe" (GRF)
 - Chair of WG GRF, Jeffrey Verbeurgt (Belgium)
 - Representation of GRFs on a political (and legal) level
- Global Geodetic Center of Excellence (GGCE)
 - Resolution no. 2/2024
 - Head of GGCE is Nicholas Brown (Australia)
 - "Geodesy Capacity Development Workshop for Europe on Transitioning to a Modern Geospatial Reference System" on February, 17-21, 2025 in Bonn
 - Structured in "Why What How Who"
 - Participants from 25 countries, several participants from EUREF community
 - Prolongation of (the financing of) the GGCE beyond 2025 underway







- Cooperations
 - European Plate Observing System (EPOS)
 - MoU of 2022 between EUREF and EPOS ERIC Update?
 - Several relations between EUREF/EPN and EPOS Thematic Core Service (TCS) "GNSS Data and Products"
 - EUREF-EPOS Workplan 2024-2025 presented at GB94 meeting and signed by both partners
 - EUREF GB is working on Workplan 2026-2027
 - Monitoring of the various products







- European Plate Observing System (EPOS)
 - MoU of 2022 between EUREF and EPOS ERIC Update?
 - Several relations between EUREF/EPN and EPOS Thematic Core Service (TCS) "GNSS Data and Products"
 - EUREF-EPOS Workplan 2024-2025 presented at GB94 meeting and signed by both partners
 - EUREF GB is working on Workplan 2026-2027
 - Monitoring of the various products
 - → presentations by Gael Janex and Enrico Seperloni on Tuesday
 - → keynote by Lilli Freda on Wednesday
 - → presentation by Rui Fernandes on Thursday
 - → presentation by Fernando Geraldes on Thursday







- EuroSDR European Spatial Data Research
 - "EuroSDR is a not-for-profit organisation linking National Mapping and Cadastral Agencies with Research Institutes, Universities and Companies in Europe for the purpose of applied research in spatial data provision, management and delivery"
 - (Joint?) Workshops "Georeferencing in the digital era" in Oktober 2024 and May 2025, in Norway
 - "How to Increase Use of Spatial Data & Sharing Data Across Borders Relating to Reference Frames"
 - Representing a (large?) community dealing with spatial data with a specific understanding of coordinate reference frames







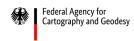
- EuroSDR European Spatial Data Research
 - "EuroSDR is a not-for-profit organisation linking National Mapping and Cadastral Agencies with Research Institutes, Universities and Companies in Europe for the purpose of applied research in spatial data provision, management and delivery"
 - (Joint?) Workshops "Georeferencing in the digital era" in Oktober 2024 and May 2025, in Norway
 - "How to Increase Use of Spatial Data & Sharing Data Across Borders Relating to Reference Frames"
 - Representing a (large?) community dealing with spatial data with a specific understanding of coordinate reference frames
 - → presentation by Roger Lott on Thursday







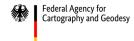
- GB Membership
 - Many Honorary Members and many members being honorable
 - Broad expertise and strong continuity







- GB Membership
 - Many Honorary Members and many members being honorable
 - Broad expertise and strong continuity
 - Scientific expertise and administrative experience are both important, should be in balance
 - Several positions/functions becoming vacant in the next two years
 - Some functions may be optimally continued with in-house expertise
 - Members elected out of the EUREF community (ongoing)
 - Switching Working Groups into Coordinators?
 - Potential candidates for exposed functions to be prepared on the medium-term





Reference Frames



- > ETRS89
 - Resolution no. 5 / 2024
 - First online meeting for volunteers spring 2024
 - Work mainly handed over to the Study Group
 - Update of ITRF2020





Reference Frames



- > ETRS89
 - Resolution no. 5 / 2024
 - First online meeting for volunteers spring 2024
 - Work mainly handed over to the Study Group
 - Update of ITRF2020
 - → presentation by Zuheir Altamimi on Thursday
- > EVRS/UELN
 - New data from several countries, e.g. from Serbia, Poland, new or planned border connections, e.g. from Serbia to neighboring countries, between Czech Republic and Germany
 - Continuing the investigations on the use of hydrodynamic leveling
 - Towards a new EVRS realization





Reference Frames



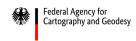
- > ETRS89
 - Resolution no. 5 / 2024
 - First online meeting for volunteers spring 2024
 - Work mainly handed over to the Study Group
 - Update of ITRF2020
 - → presentation by Zuheir Altamimi on Thursday
- > EVRS/UELN
 - New data from several countries, e.g. from Serbia, Poland, new or planned border connections, e.g. from Serbia to neighboring countries, between Czech Republic and Germany
 - Continuing the investigations on the use of hydrodynamic leveling
 - Towards a new EVRS realization
 - → presentation by Martina Sacher on Wednesday







- > EPN / EPN CB
 - Permanent activities, e.g. communication with station providers, getting proposed stations into the operational EPN, having the EPN web pages up-to-date, etc.
 - bookkeeping of national ETRS89 realizations
 - Resolution no. 1 / 2024 (DOIs)







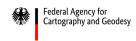
- > EPN / EPN CB
 - Permanent activities, e.g. communication with station providers, getting proposed stations into the operational EPN, having the EPN web pages up-to-date, etc.
 - bookkeeping of national ETRS89 realizations
 - Resolution no. 1 / 2024 (DOIs)
 - → presentation by Carine Bruyninx on Wednesday







- EPN Coordinators
 - Analysis Center Coordinator
 - Contributions of all 17 ACs now available
 - Resuming operational combination
 - Combination of Repro3 individual solutions







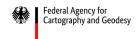
- EPN Coordinators
 - Analysis Center Coordinator
 - Contributions of all 17 ACs now available
 - Resuming operational combination
 - Combination of Repro3 individual solutions
 - → presentation by Tomasz Liwosz on Wednesday
 - Troposphere Coordinator
 - Resuming operational combination with all individual solutions
 - Repro3 solutions should comprise also the troposphere solutions







- EPN Coordinators
 - Analysis Center Coordinator
 - Contributions of all 17 ACs now available
 - Resuming operational combination
 - Combination of Repro3 individual solutions
 - → presentation by Tomasz Liwosz on Wednesday
 - Troposphere Coordinator
 - Resuming operational combination with all individual solutions
 - Repro3 solutions should comprise also the troposphere solutions
 - → presentation by Rosa Pacione on Wednesday
 - Reference Frame Coordinator
 - (Still) waiting for the final weekly combinations
 - C2355 as "hybrid" solution







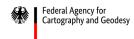
- EPN Coordinators
 - Analysis Center Coordinator
 - Contributions of all 17 ACs now available
 - Resuming operational combination
 - Combination of Repro3 individual solutions
 - → presentation by Tomasz Liwosz on Wednesday
 - Troposphere Coordinator
 - Resuming operational combination with all individual solutions
 - Repro3 solutions should comprise also the troposphere solutions
 - → presentation by Rosa Pacione on Wednesday
 - Reference Frame Coordinator
 - (Still) waiting for the final weekly combination
 - C2355 as "hybrid" solution







- EUREF Working Groups
 - EPN Reprocessing WG
 - Resolution no. 3 in 2023
 - EPN Repro3 processing is in delay, but approaching the end
 - 12 of 17 EPN Analysis Centres have been actively contributing
 - Progress was very much depending on processing power







- EUREF Working Groups
 - EPN Reprocessing WG
 - Resolution no. 3 in 2023
 - EPN Repro3 processing is in delay, but approaching the end
 - 12 of 17 EPN Analysis Centres have been actively contributing
 - Progress was very much depending on processing power
 - → presentations during the AC workshop on Tuesday
 - WG on EPN Densification
 - Most recent solution is D2237
 - Waiting for the finalization of EPN repro3
 - Resolution no. 3 / 2024
 - Benchmark test initiated in between for the EPN-D Analysis Centres
 - → presentation by Ambrus Kenyeres on Tuesday
 - WG on Deformation Models







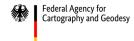
- EUREF Working Groups
 - WG on European Unified Height Reference
 - Several new data included
 - Considering a new EUREF product
 - Considering a Technical Note on transformation parameters
 - Collecting gravity data in Europe as a challenge







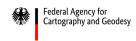
- EUREF Working Groups
 - WG on European Unified Height Reference
 - Several new data included
 - Considering a new EUREF product
 - Considering a Technical Note on transformation parameters
 - Collecting gravity data in Europe as a challenge
 - → presentations by Joachim Schwabe on Thursday







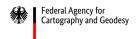
- EUREF Working Groups
 - Resolution no. 5 / 2024
 - Study Group on ETRS89 realization
 - Approx. 20 members to cover a wide range of interest and knowledge
 - Long list of questions and topics to discuss
 - Several online meetings so far
 - Presentations of use cases / case studies from European countries







- EUREF Working Groups
 - Resolution no. 5 / 2024
 - Study Group on ETRS89 realization
 - Approx. 20 members to cover a wide range of interest and knowledge
 - Long list of questions and topics to discuss
 - Several online meetings so far
 - Presentations of use cases / case studies from European countries
 - → presentation by Xavier Collilieux on Wednesday

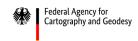




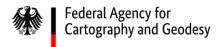
EUREF Campaigns



- EUREF GB asked for validation of
 - Romanian reference station upgrade campaign (ROMPOS)
 - EUREF Serbia 2023 campaign
 - → Poster presentations of both countries









Thank you for your kind attention!

Bundesamt für Kartographie und Geodäsie Section G2 Richard-Strauss-Allee 11 60598 Frankfurt am Main

wolfgang.soehne@bkg.bund.de www.bkg.bund.de Phone +49 69 6333 – 263