TECHNISCHE UNIVERSITÄT WIEN

VIEVS DAYS 2026

ADDING A NEW STATION

Helene Wolf | TU Wien

Superstation file

- Binary (.mat) file containing all static station-dependent data: *VLBI/TRF/superstation.mat*
- TRF, time-independent corrections and coefficients of periodic time dependencies
- The input files are stored in: *VLBI/TRF/data/*
  - TRF catalogues
  - antenna information, eccentricities
  - tidal ocean loading parameters (phase + amplitude)
  - tidal atmosphere loading (with cosine and sine components of the deformation)
  - ocean pole tide loading (real and imaginary part of the tide coefficients)

Reference frames

- The following frames can be chosen in VieVS-VLBI 4.0
  - ITRF2014
  - DTRF2014
  - VTRF2014
  - ivsTrf2014b
  - JTRF2020
  - DTRF2020
  - ITRF2020
  - ITRF2020_u2023
  - ITRF2020_u2024
  - vievsTrf (= backup) → *file for providing coordinates of new stations (VIE2023)*

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Exercise: Adding new station in VieVS-VLBI

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VIEVS DAYS 2026

ADDING A NEW RADIO SOURCE

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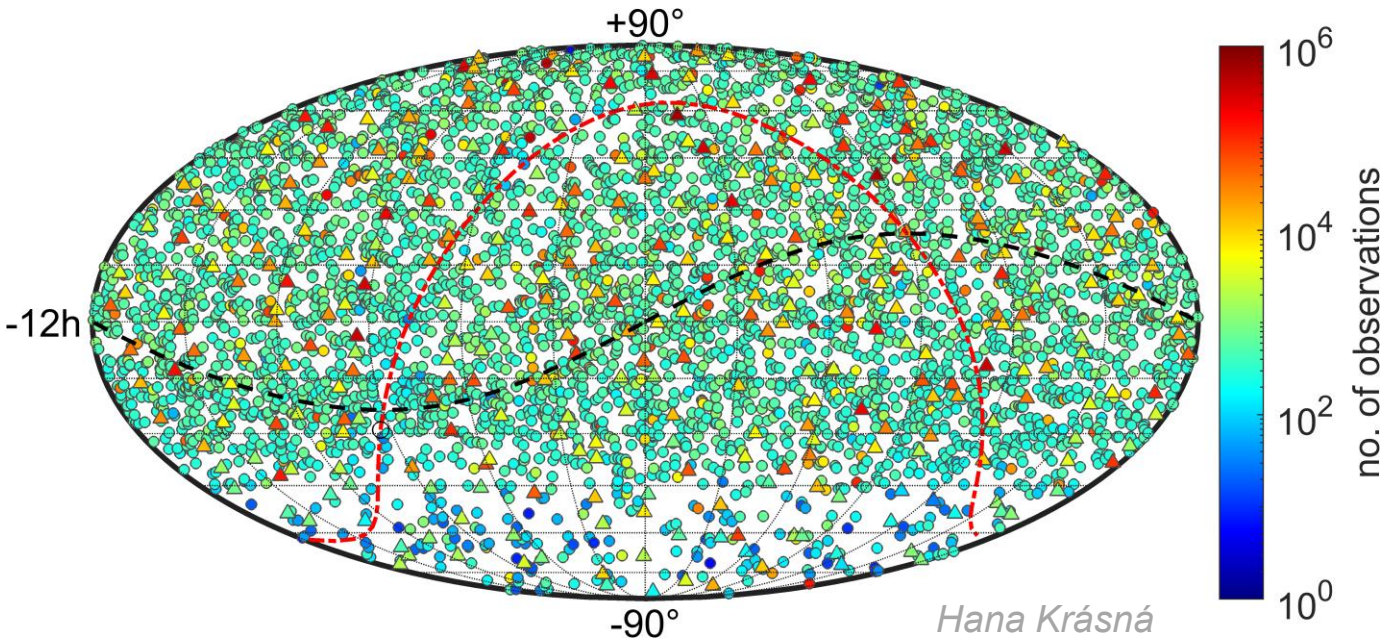
Supersource file

- Binary (.mat) file containing the source information: *VLBI/CRF/supersource.mat*
- The input files are stored in: *VLBI/CRF/data/*
  - CRF catalogues
  - Name tables (IERS ↔ IVS)



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Exercise: Adding new source in VieVS-VLBI