



Goals and Issues

EUREF Analysis Centre Workshop

October 14-15, 2015

Bern Switzerland



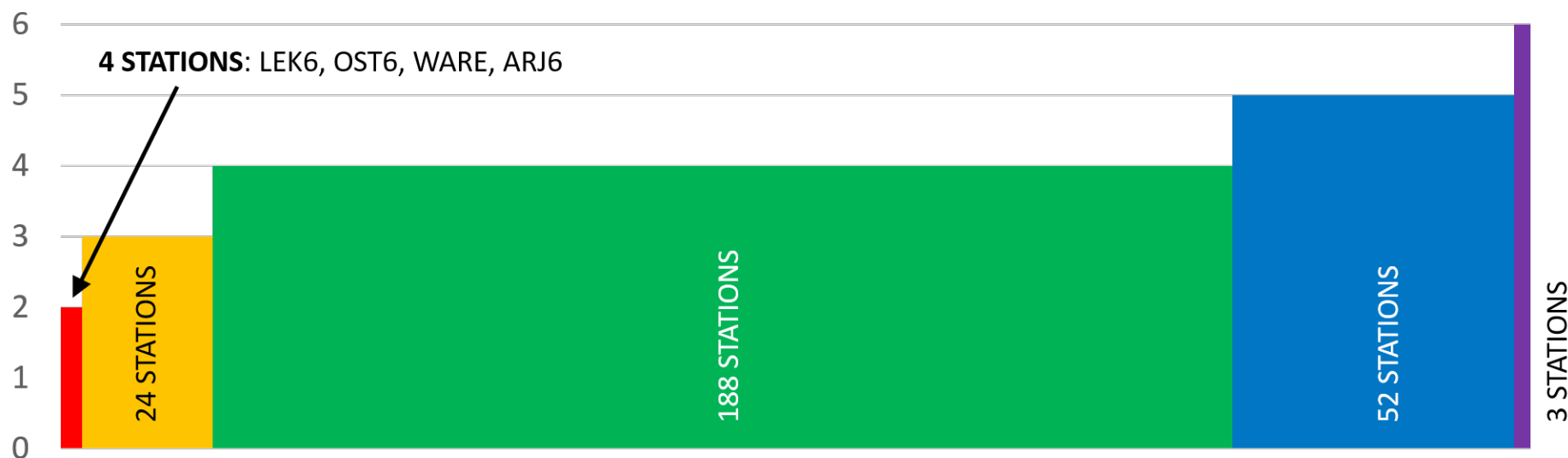
REPROCESSING 2

Solutions are diversified concerning software, extent and number of stations, type (PPP or network solution) and some models. Up to now first combination of full material has been done. There are however several issues that needs discussion/clarification:

- What **input solutions** should be used for the final combinations (positions and troposphere)?
- Use of **type mean and individual calibrations** (no consistency).
- Corrections of wrong values of eccentricities.
- Analysis of **solutions inconsistency** for each problematic station.
- Strategy of **outliers and discrepancies elimination**.
- Analysis regarding **CATREF software**.

COORDINATION OF THE EPN ACs

- *EPN Local Analysis Centres* replaced by **EPN Analysis Centres**.
- Within EPN we have ACs devoted to particular tasks e.g. routine analysis, reprocessing, densification...
- 16 routine ACs – possible reorientation.
- New stations: at least 3 ACs needed for routine processing.



STRATEGY OF PROCESSING

- Introduction of **atmospheric non tidal loading** (?). Currently it is recommended to apply atmospheric tidal loading corrections.
- **Individual vs type mean calibrations** (IGS uses type mean calibrations, EPN - individual (if available). Use of different approaches (repro2 case, but also some routine analysis) result in discrepancies).
- **Multi-GNSS** (use of GLONASS and Galileo).
- **Troposphere modelling** and **gradients estimation**.
- ...



GLOBAL REFERENCE FRAME UPDATE: ITRF2014

Presentation of Zuheir Altamimi: “Status of ITRF2014 analysis”.



INTRODUCTION OF RINEX 3

- **Guidelines for EPN stations and Operational Centres:**
“Stations tracking satellite systems in addition to GPS and GLONASS must submit data files in both the RINEX 2 (GPS and GLONASS only) and RINEX 3 format (GPS, GLONASS plus other GNSS, SBAS, etc.). Stations only tracking GPS (or GPS + GLONASS) should submit data in the RINEX 2 format.”
- BSW will be capable to process RINEX3 data soon.
- New stations naming convention:
4-characters names > **9-characters station ID**
(XXXXMRCXX, XXXX – existing station name, M – monument or marker number (0-9), R – receiver number (0-9), CCC – ISO Country code).