

Report about the TIGA-PP related activities since the 22nd GB meeting

Status of the TIGA observing stations:

Status of the TAC centers:

At the moment TIGA has solutions of 6 individual centers:

1. *EUREF (TAC-III)*: Solutions for Europe available since week 1181 (now 1236) in a regular basis. This primarily will server European users with short-latency requirements.
2. *CTA (TAC)*: Updated solution. The already uploaded period of (weeks 0938-1199) will be extended.
3. *DGFI (TAC-I)*: 19 randomly distributed solutions, updated data set with different weighting
4. *GeoScience Australia (TAC-I)*: provided a extended period for weeks 1108-1200
5. *GFZ (TAC-I)*: Global solutions are available since week 1112 (now 1180), the period will be extended
6. *ULR/IGN (TAC-I)*: Global solutions are available since week 1112 (now 1172), additional a period backward to week 1098.

Status of the analysis of individual solutions and combination:

- GFZ recently started to analyze the different TIGA solutions and the potential of the new TIGA solution. Comparisons ongoing between the GFZ-AC solution and the GFZ-TIGA solution. Also individual station solutions are analyzed to find outliers and seasonal or other environmental effects on the station coordinates.
- ULR/IGN has made extensive tests to find a set of core stations which may server as the reference data set for the reference frame. Analyses are ongoing.
- At the moment no combination solution is available. Manpower restrictions have prevented a more in-depth analysis and combination

The potential of TIGA:

IGS and TIGA are now well established in the Geodetic community and may again set standards. However, at the moment only a very few downloads of individual TAC solutions. The main request are from the other TAC/TAAC centers. This indicates that the users want “final” and “official” coordinates which can be used for research and publications. This creates some pressure on TIGA to analyze and improved our solutions and to provide a combined (and therefore more official) solution. Since it was agreed that only coordinates will be published for sites labeled as TOS, this may create even more pressure to the sea level community to provide the information. A good occasion could be the presentation of TIGA during the IUGG in Sapporo.



