

Session 3 ITRF 20xx and Other Combined Products

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Introduction



Discussion on TC concerns

- Comments received so far from IGS and IDS
- Comments/issues from ILRS and IDS are welcome here

Technique concerns: IGS

- 2nd reprocessing (repro2) is planned
- Timing - sometime during 2013
 - First plan of an ITRF2013
 - Users do not want to see a new ITRF realization very soon!
- Temporal resolution – proposal to IGS ACs to switch from weekly to daily!
- ITRF scale – IGS recommendation (I call it wish):
”fixing the future ITRF scale to ITRF2008 until a significant accuracy improvement is possible.”
- Post-ITRF evaluation: well defined plan is needed

Technique concerns: IVS

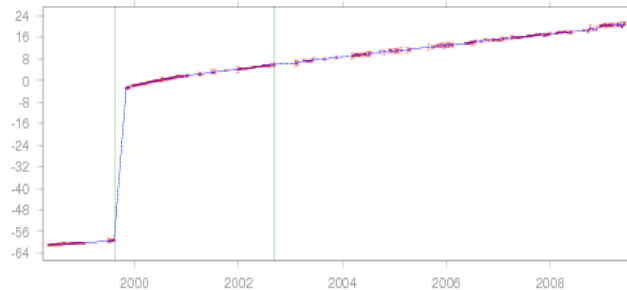
- **Continuity of piece-wise linear segments ?**
- **My brief answer: “we are working on that”. But**
 - Which parameters ?
 - Done for velocities before and after events, except EQs
 - For EQs, a more sophisticated approach is needed
 - It has no sense for positions if the breaks/offsets are significant

Example of non-linear motion

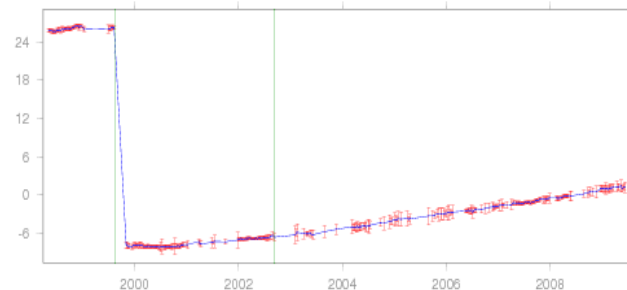
TUBI (Turkey) GPS station

20806M001 TUBI

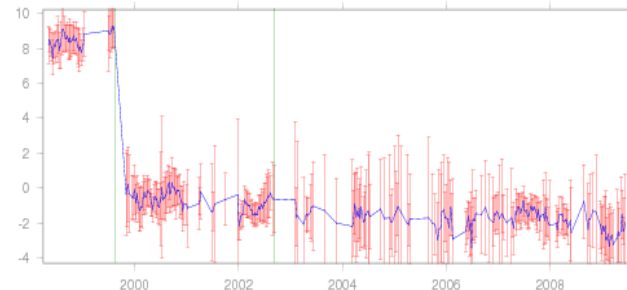
EAST cm



North cm

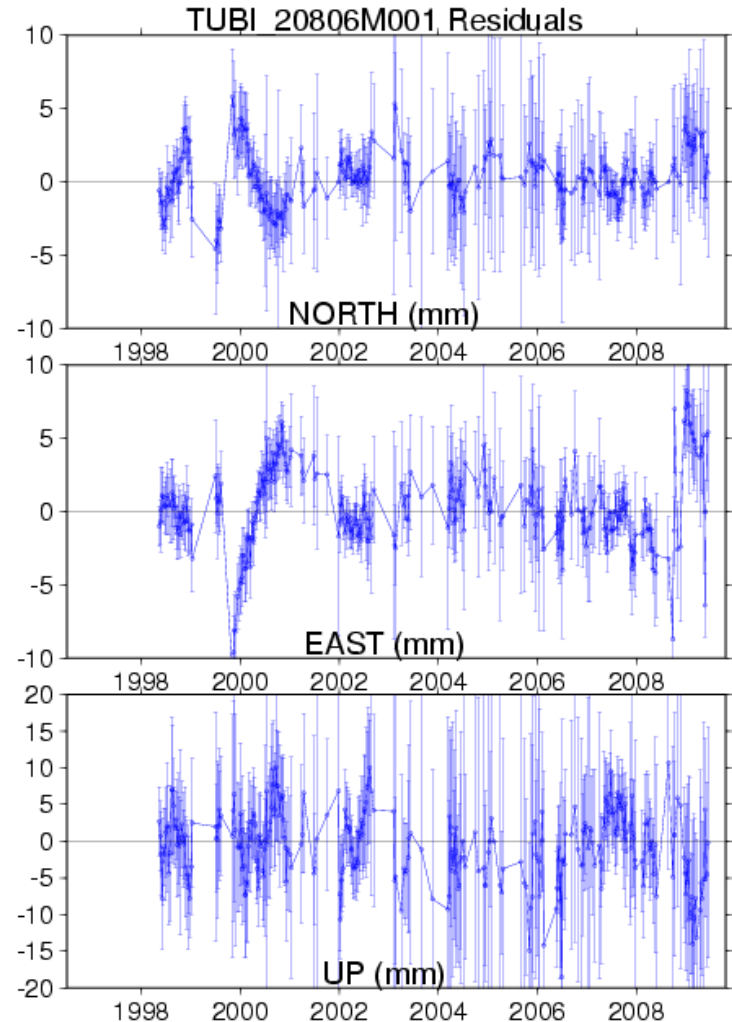


UP cm



Reference Position :

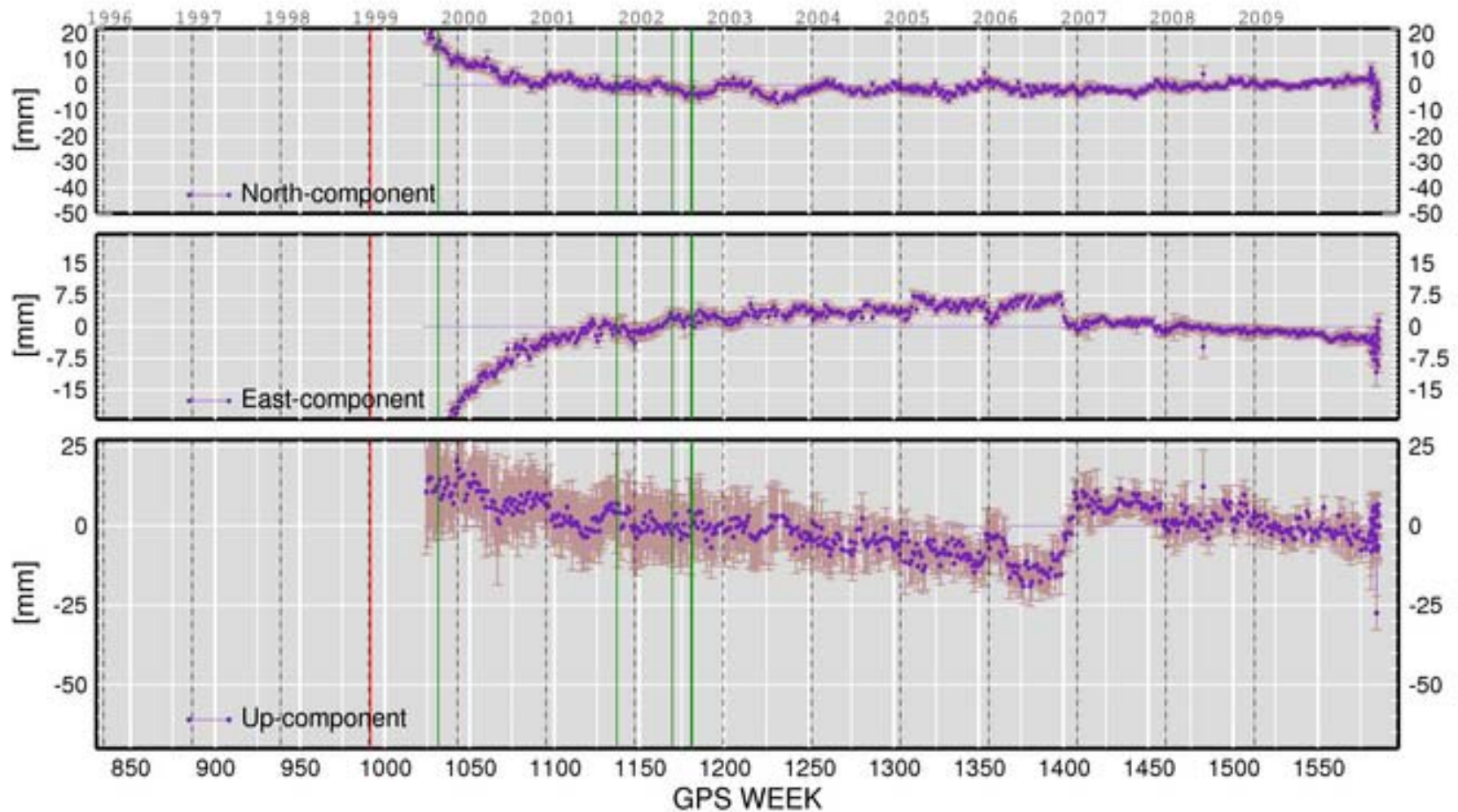
X = 4211317.396 m Y = 2377865.803 m Z = 4144663.322 m



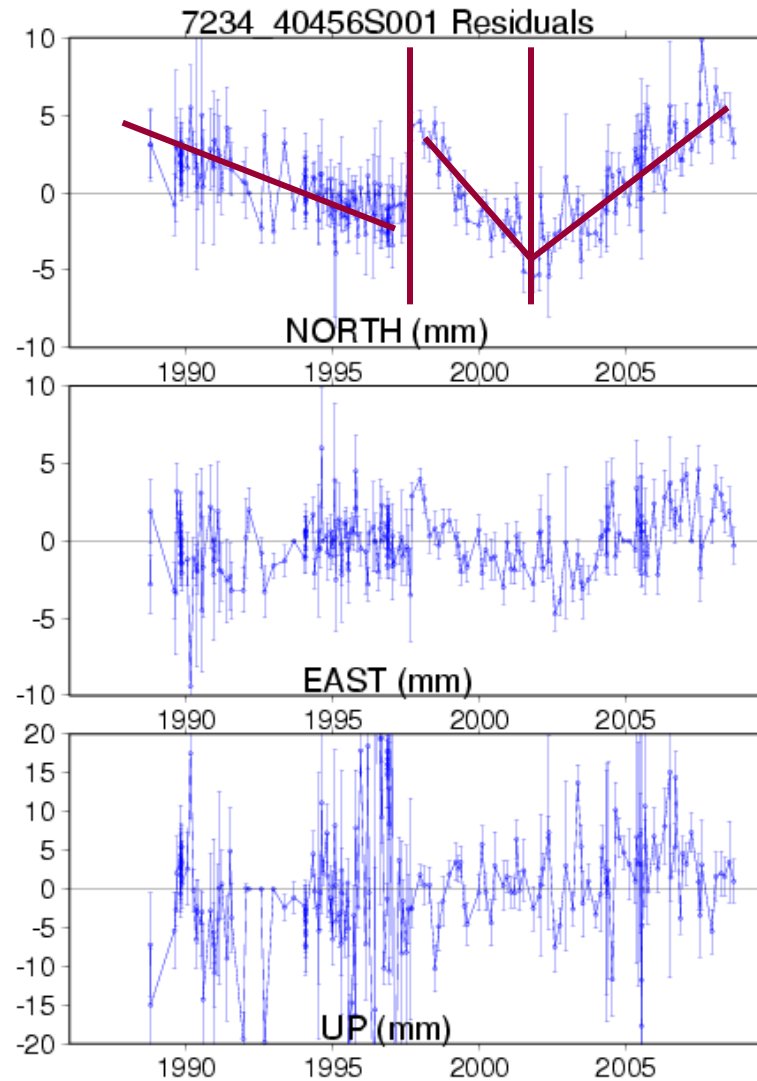
Example of non-linear motion

TUBI (Turkey) GPS station

TUBI_20806M001 (RAW)



VLBI antenna motion: Pie Town Residuals



Any concerns for ILRS, IDS or others ?