

Plans for an ITRF2008 Solution



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ITRF2008 Specifications (1/2)

- Similar to ITRF2005
- Time series of station positions and EOPs:
 - Polar Motion
 - Polar Motion Rate
 - LOD: Probably from VLBI only, but some tests should be done to evaluate the impact of Satellite LOD?
 - UT1: From VLBI only
- Completely free solutions:
 - Loosely constrained solutions, no continuity constraints on EOPs to avoid smoothing
 - With removable constraints
 - Normal Equation



ITRF2008 Specifications (2/2)

- Preferably combined TC solutions (IVS, IGS, ILRS and IDS
- Discontinuity handling:
 - Ideally only for geophysical events
 - Equipement Change
 - Preferably TC initial list
 - ITRF CC may add other discontinuities



ITRF2008 Solution? Conditions

- IGS reprocessing with a consistent IGS solution:
 - (1) PCV problems
 - (2) we need GPS to be able to tie SLR and VLBI
- A new, improved reanalysis solution from IVS (almost done)
- A new, improved and *much longer* (including all SLR data) reanalysis solution from ILRS
- New reprocessed IDS solution(s)



Current Status: Waiting for test solutions

- IERS TC were requested to submit <u>test</u> solutions for evaluation
- IGS:
 - Combined weekly solutions are not expected before 2 yrs
 - Individual AC solutions for test purpose would be available:
 - Dresden Group will submit partial weekly reprocessed solutions (2000-2005)
 - ESOC might contribute
 - MIT (?)
- ILRS: Still waiting (?)
- IVS: already done

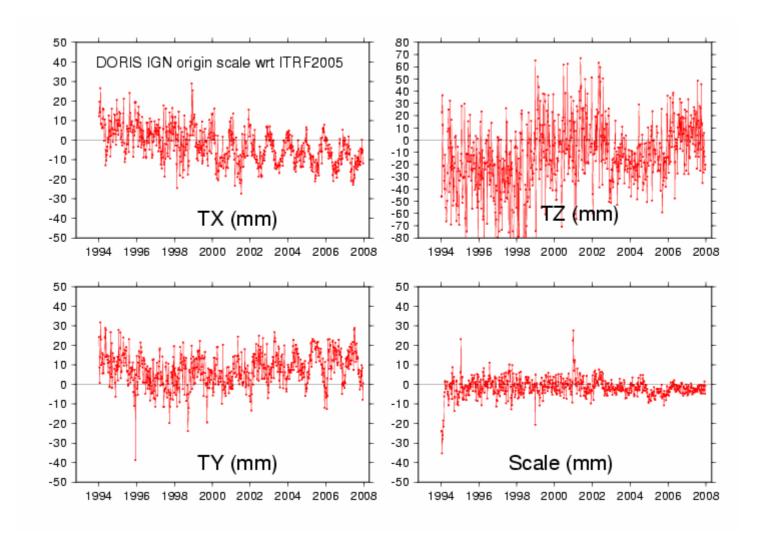


IDS Contribution to ITRF2008

- IGN reprocessed test solution ready (see next)
- Other AC solutions before the EGU?
- Would a combined IDS solution be ready, end 2008?
- In case of individual AC solutions:
 - They should follow the ITRF2008 specifications
 - ITRF CCs will need more time to analyse the solutions
 - Need more time for interaction between the ITRF PC and the ACs: Discontinuities, disagreements, etc.



New DORIS Solution (IGN) Origin & Scale wrt ITRF2005





New DORIS Solution (IGN): WRMS

