GOP analysis centre  Activity report

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AWG meeting, Paris 23-24 March
Weekly processing at GOP

1998-2007  delivered until end of February
1995-1997  delivered last week
2008       under processing, planned delivery 1\textsuperscript{st} April
1993-1994  planned delivery 15\textsuperscript{th} April

Missing solutions

Leap second ut1-utc
Day with missing data or maneuvers for all satellites
Basic characteristics of GOP solution 31

- Loose constrained, netw. 10m, pole 500 mas
- Two steps: single-satellite daily solutions and combination on NEQ level
- GPT troposphere model with dry GMF as apriori, wet GMF for estimation
- Orbit modeling based on empirical and stochastic s(along track) estimation

Comparison GOP vs IDS combined solution

- TRF parameters compared
- IDS comb. Plots from Zuheir Altamimi (RED) used as background
- BLUE graphs corresponds to GOP
Scale

In 2001-2007 closer to 0
End of Topex – significant change
Tx

Higher variations
Ty

Higher variations
Down and up behaviour
**Tx, Ty periodicity**

Significant semiannual periodicity at least from 2005 IDS combination and the other AC`s solutions - annual Visible on 8 weeks averages (black line)
Tz

‘up and down’ behavior stronger than in IDS combination
Pole comparison

IERS C04 as reference
RMS strongly decreased after Envisat and Spot-5 launch
RMS around 0.5 mas after 2002
Period September 2001-May 2002

Significantly lower quality of results
GOP solution as well as IDS combination
Reason of this effect?