IGN Analysis Center Status Report

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OUTLINE

- Recent investigations
- Regular data processing
- Conclusions and future work

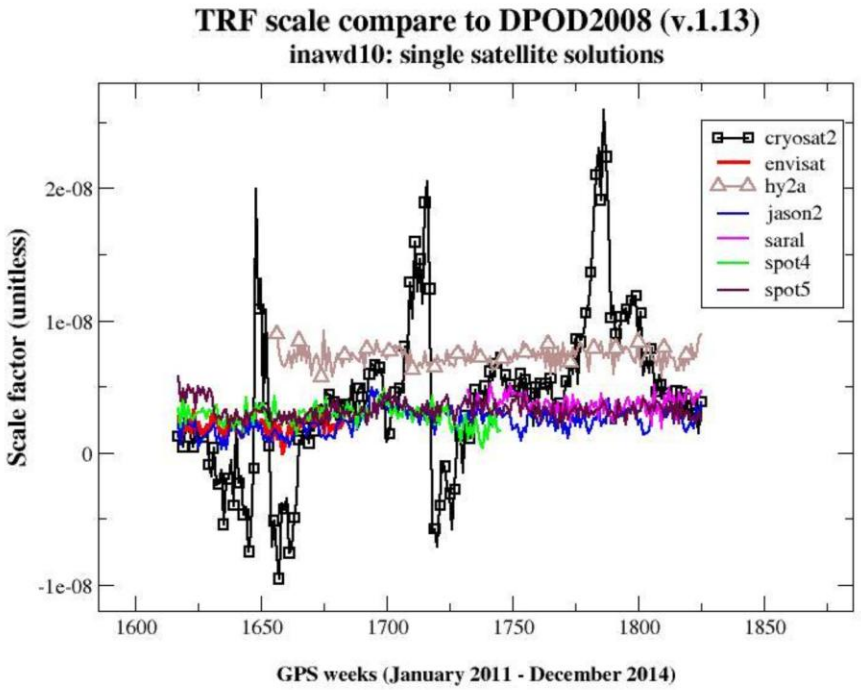
Recent investigations

- Cryosat2/TRF scale
  - following problems found by Sergey Kuzin – INASAN
- HY2A – radial offset
  - Following problems detected by other groups at the last AWG
- Saral – cross-track offset
  - Following problems detected by other groups at the last AWG

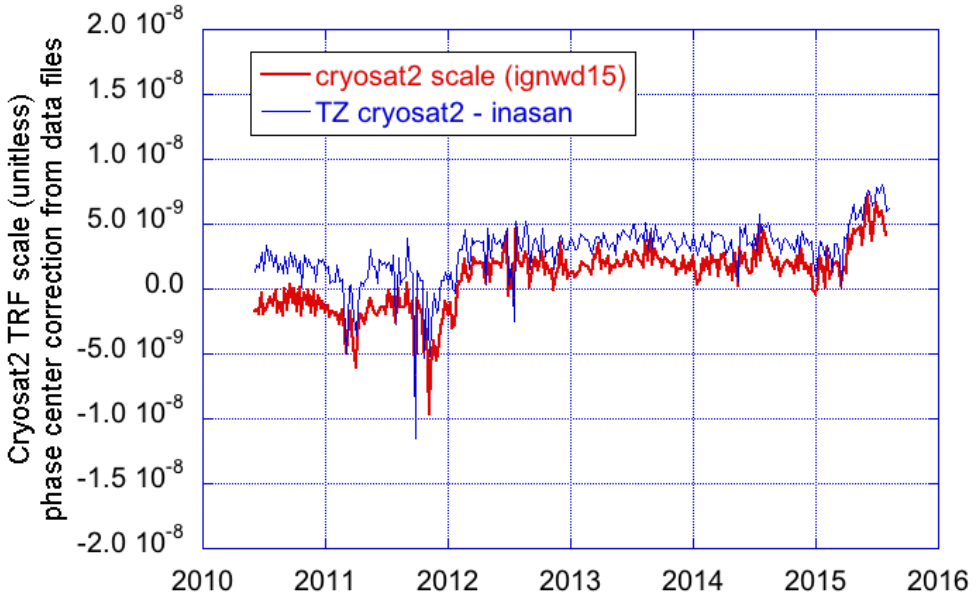
Cryosat2 – TRF/scale

Using phase center correction from CNES data files

Does not confirm earlier results from Sergey
who did not use proper GIPSY scripts



Results presented by Sergey Kuzin
Toulouse, AWG 2015



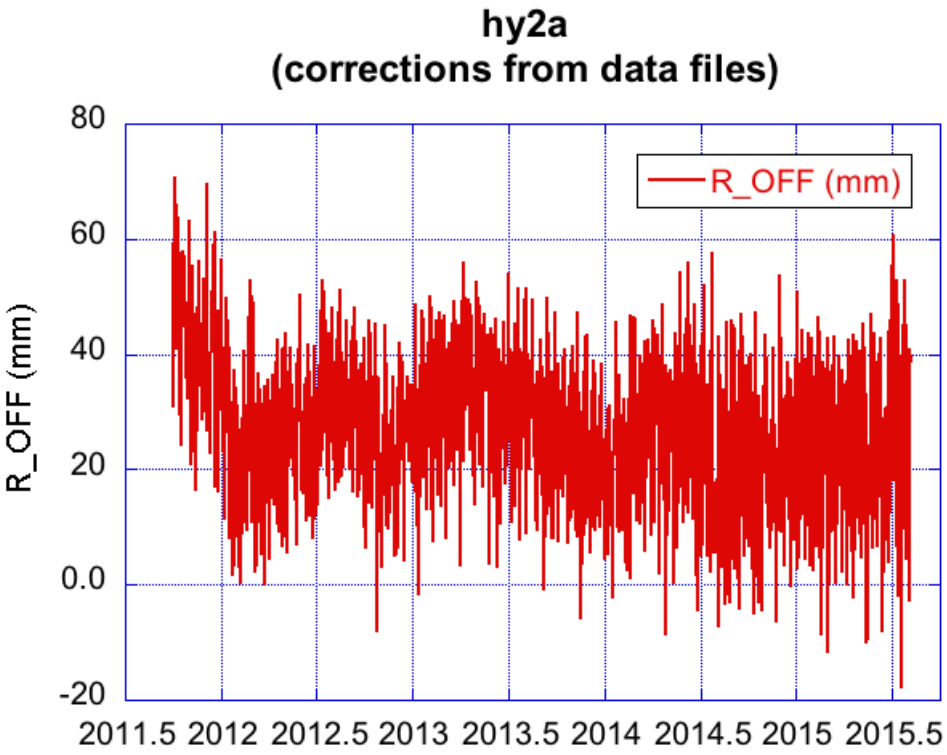
IGN computations using:

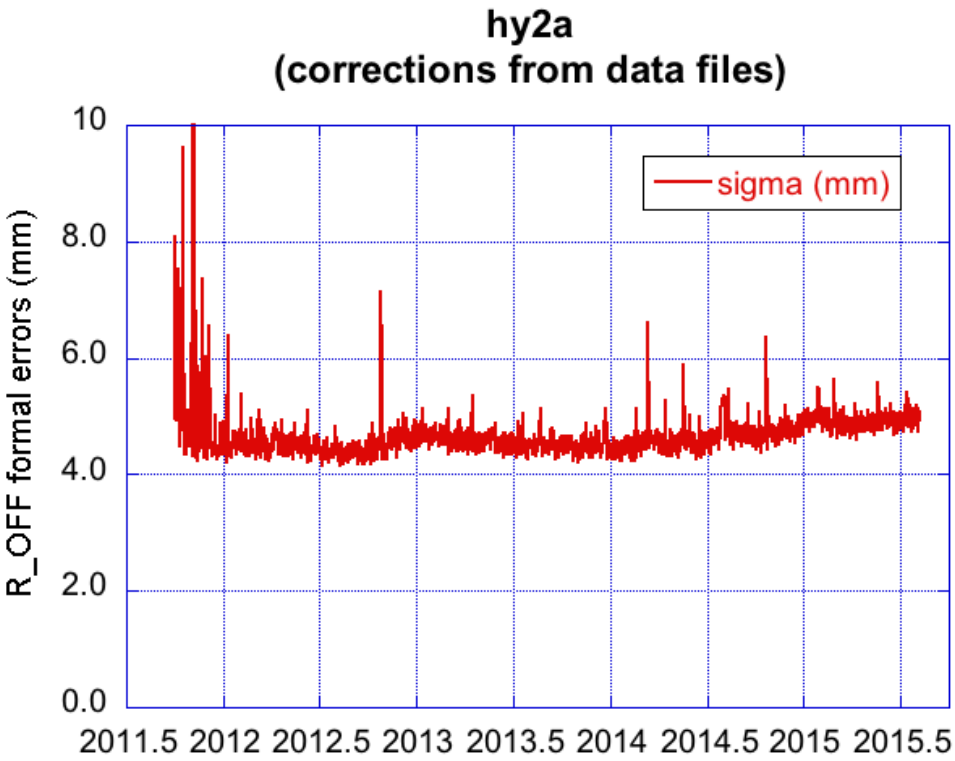
red = IGN namelists

blue = INASAN namelists

HY2A – radial offset

Using phase center correction from CNES data files



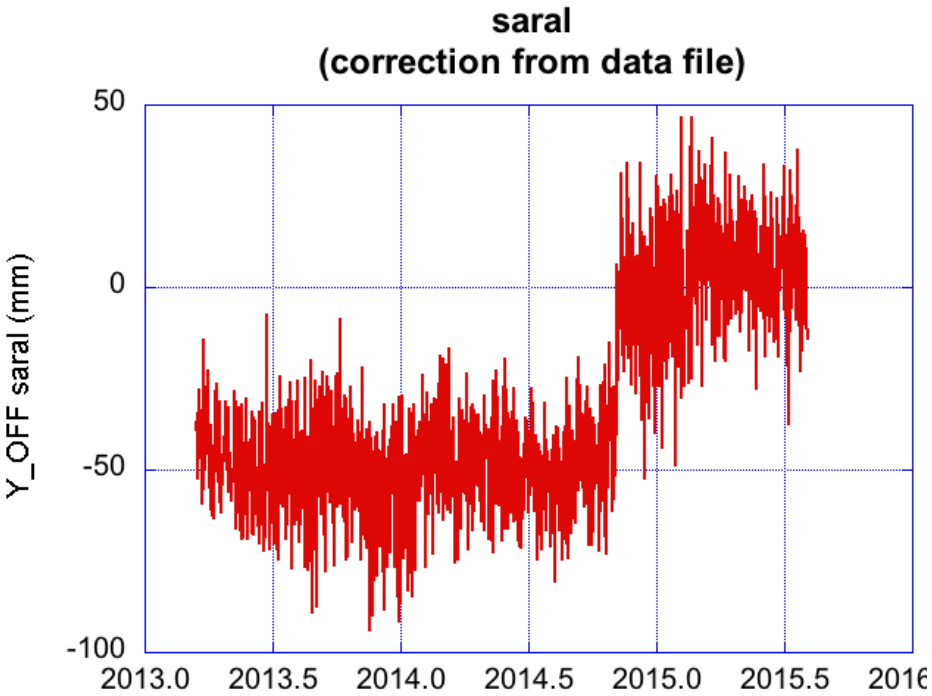


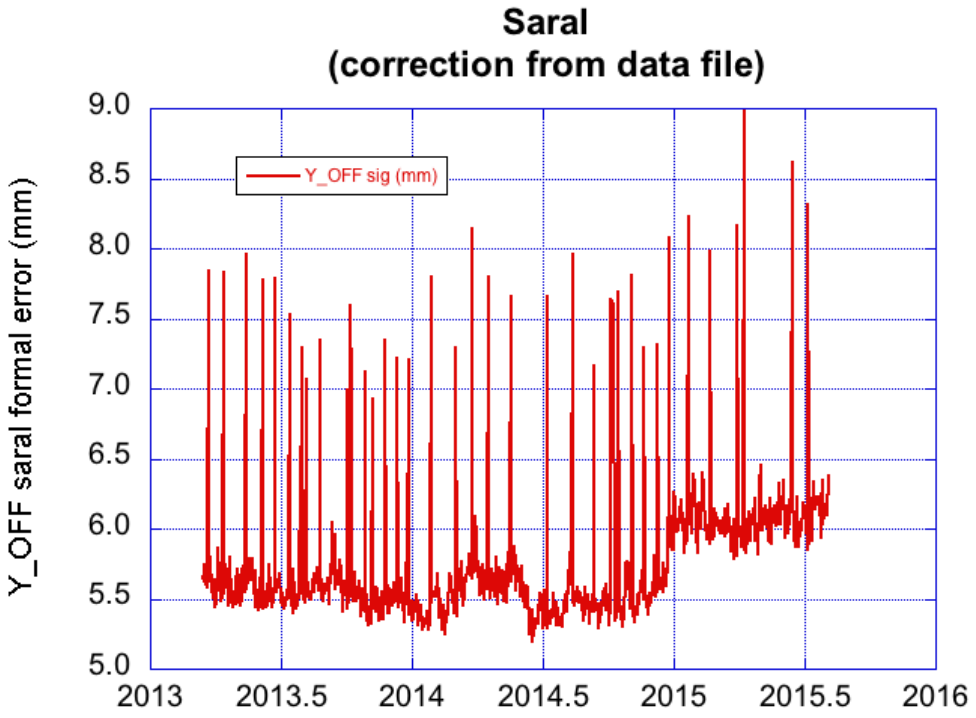
Significant offset – not yet corrected by CNES

Different formal errors at the beginning

Saral – cross-track offset

Using phase center correction from CNES data files





CNES corrected files after 04-NOV-2014

Spikes need to be investigated
Formal errors are higher after 04-NOV-2014

CONCLUSIONS AND FUTURE WORK

- Regular data processing:
  - Regular data submission is up-to-date
    - Main driver is availability of SPOT5 corrected files (and then AOD1B products). Can be done at weekly or daily basis.
  - Need to update all derived products and on-line documentation for these products at CDDIS and IGN.
  - Following recent problems (R_OFF, X_OFF), there might be a need for data reprocessing, as we are using phase center corrections from data files.

- Research activities
  - RINEX data processing has now highest priority. Work is started but too preliminary. Approach is different from other Acs (modelling clocks with GIPSY/OASIS).