

IGN Analysis Center Report

Current processing and future plans (and questions)

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Current activity

- ignwd08 time series
 - Major aspects:
 - Constant SRP coefficients (Gobinddass et al., 2009)
 - 1hr drag reset (Gobinddass et al., 2010)
 - Done automatically (<24hr after last data)
 - Available both in free-network (ignwd08) and in ITRF2005 (ignwd09)
 - Future improvements:
 - Available also in ITRF2008 (ignwd10): (September 2010)
 - Adding Jason-2 data (September 2010)
 - Adding Cryosat-2 data (November 2010)
 - NB: same name of new time series (when adding satellites in a backward processing mode)?

Plans for the future

Open issues

- Gravity field
 - Use EIGEN-GL04S1? Or GOCE-derived?
 - Use Time Varying Gravity? Effect on estimated geocenter?
- Troposphere
 - Use VMF-1 instead of GMF-1
 - Use horizontal tropospheric gradients (1/day)?
 - Lower cutoff angle (5-7 degrees?)
- SAA-effects on SPOT-5 (see Stepanek et al., 2010)
- Time tagging (where to get this info?) (Zelensky et al., 2006)
- Data weighting
 - Use info on interval count? (see Stepanek et al., 2010)
 - Downweight data at low elevation? (not done anymore by JPL/GPS)
- Common IDS list for discontinuities?