



IGN Analysis Center Report

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SUMMARY

- Current DORIS/IGN data analysis strategy
- Recent reprocessing activities
- Short-term activities

Current IGN data processing strategy

Current free-network SINEX solution is **ignwd08**

Major aspects :

Constant SRP coefficients (**Gobinddass et al., JGeod, 2009**)

1hr drag reset (**Gobinddass et al., ASR, 2010**)

Done automatically (<24hr after last data is available at CCDIS)

Derived products :

weekly ITRF2005 SINEX time series (**ignwd09**)

geocenter, EOPs, STCD files (**ign09d01**)

cumulative position/velocity in free-network (**ign09d01**)

cumulative position/velocity in ITRF2005 (**ign09d02**)

Recent reprocessing activity

- Done and submitted:
 - March 2011 : resubmit all results after 2008.5 to include **Jason-2 and Cryosat-2 data** (SINEX + derived products)
 - Done but not submitted:
 - April 2011 : reprocess all data since 2002.5 to take care of **SPOT5/South Atlantic Anomaly** effect (Stepanek et al., ASR, 2010; Bock et al., ASR, 2010)
 - April – May 2011 : derive a new cumulative **position/velocity** solution (tf_110424a -> ign11d02) expressed in **ITRF2008** (this was mandatory for DPOD2008 realization)
 - May 2011 : create a new time series of **weekly solutions** (from ignwd08) expressed in **ITRF2008**
- NB: This will become SINEX = ignwd10 and STCD/EOP/GEOC = ign11d01

Future activities (short-term)

- May – June 2011 :
 - reprocess all data since 2008.5 to include the newly **redelivered Jason-2 and Cryosat-2 data** (currently in progress)
- July – Aug 2011 : **Moving toward ITRF2008**
 - deliver revised **ignwd08** weekly time series (free-network) from 2002.5 (start of SPOT5) with current derived products since 1993.0
 - deliver new SINEX **position/velocity** cumulative solution (free-network ignd01 and ignd02 expressed in ITRF2008 using geodetic local ties)
 - Deliver complete time series **ITRF2008 weekly SINEX** (ignwd10) and **derived results** (geocenter, EOP, STCD files and plots) BUT **stop delivering** ignwd09
 - Resume delivery of current **ignwd08** weekly time series (free-network)