

IGN Analysis Center Report

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OUTLINE

- Regular IDS activities
- On-going research activity and plans
- Conclusions

Regular IDS activities

- Regular submission of SINEX solutions (every 3 months) using exact same processing strategy
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- Current issues:
 - Need to update satellite models (Saral, HY2A)
 - Need to add new satellites (Jason-3, Sentinel)
 - See after DORIS/RINEX data processing
 - Data delivery issue
 - New method proposed by CDDIS

Research activities

- DORIS/RINEX data processing
 - Many thanks to Flavien Mercier, Kevin Miller, Willy Bertiger
 - Development made in parallel for GIPSY/OASIS and for new G-Core (JPL)
 - Small but regular progress
 - Prefit residuals obtained for phase and pseudo-range

Current issues/problems

- sign convention
- buffer overflow for 400MHz pseudo-range
- clock correction? For time stations (could be a big problem as noticed before for format 1.0 when processing multi-satellites simultaneously)

NB: processing phase and pseudorange together (GPS-like data processing)

Future plans

- (assuming DORIS/RINEX data processing is fully operational)
- Adding new satellites (Jason-3, Sentinel)
- Combining DORIS results (multi-satellite solution as before or summing up individual results)?
- Phase center correction (using long-term time series of phase residuals)

CONCLUSIONS

- Urgent actions:
 - Investigate new CDDIS delivery procedure (in progress)
 - Finalize DORIS/RINEX data processing for Jason-2 (preprocessing and filtering strategy in progress)