

DORIS/IGN Analysis Center Plans for delivery schedule

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OUTLINE

- What will be done (or not done)
- Schedule and next steps

DORIS data

- Envisat new data set.
- Spot-5 new data set. (minimum tests before)
- Jason-1 new data set. (will not be used)

DORIS models

- Gravity field (EIGEN-6S2) for IGN
- Gravity field (same as gscwd20) for INASAN
- Phase law correction. **Will do some more tests** (not sure if it will succeed)
- Use of GPT as a priori. **Will not be done**
- Satellite physical models using overlaps and once-per-revolution statistics. **More tests needed** (highest priority)

Other models

- Use quaternions or attitude models in multi-satellite solutions. **Will not be done**
- Troposphere: use VMF-1 (IGN) or GMF (INASAN)
- Atmospheric loading. **Will not be done**
- Ocean tide model: FES2012. **Some minimum tests will be done**
- 2nd order ionospheric correction. **Will not be done.**

Estimation strategy

- Horizontal tropospheric gradients (IGN only).
- Data weigh per satellite (IGN and INASAN)
- Down-weighting at lower elevation (IGN only)
- Estimating or not cross-track oprs? **To be tested. Probably, will not estimate cross-track opr**

Current problems

- Phase law correction: **difficult**
- Time variable gravity corrections: **difficult**
- Use of GPT as a priori: **may not be needed**

Planned schedule

- Until November 22: final tests before finalizing option (eg phase law, satellite models)
- On November 29: providing namelists to INASAN (and IGN)
- On December 20: IGN provide a few years of SINEX results for tests
- Mid February: IGN provides full data set
- NB: possible second submission envisioned if necessary (eg. Phase law or significant improvement foreseen)