




# New frontiers of altimetry



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## IGN Analysis Center Report: Current Status and Future Plans

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# OUTLINE

- Description of the latest IGN/DORIS solution
- Current operational problems
- Plans for the future
- Conclusions

# Latest IGN/DORIS solution

- Main features:
  - Gravity field EIGEN-6S2.extended.V2
  - Using all available satellites
    - Including SARAL/AlKa and HY2A
  - Phase center corrections (phase law)
    - Ground stations only (Starec and Alcatel)

# Current operational problems

- Availability of DORIS data
  - No data at CDDIS
  - No “satellite”.files built at CDDIS
- SPOT5 corrected files
  - Not available in standard form at CDDIS
- Availability of internal terrestrial reference frame (position/velocity)
- Availability of latest EIGEN-6S2 solution
  - Regular updates?

# Plans for the future

- Re-investigate a few issues
  - Tropo : horizontal tropospheric gradients, use GPT
  - Empirical accelerations (cross-track?)
  - Satellite models (discussion on HY2A)
- Need for a new solution?
- Data processing using RINEX files
  - Reader done
  - Preprocessing tested
- DORIS antenna PCV maps using RINEX files

# CONCLUSIONS

- DORIS/IGN solution submitted for IDS may not be optimum. Need for a new solution?
- Day-to-day data processing not resumed with new solution (operational issues)
- Ongoing research work (RINEX data, PCV maps)