

Theme 6: Constellation Optimization Workshop



- ⌘ Start May 2003, ending August 2003
- ⌘ Participants CNES, SOS, DUT, SOC, CLS, ALCATEL, CETP, SHOM, LEGOS, SSTL LEGI, NERSC
- ⌘ Expected contribution from Meteo-France
- ⌘ Outputs:
 - ☒ Recommendations for GAMBLE multi-satellite scenarios (including recoms on Altika, SWIMSAT, Gander project design)
 - ☒ In terms of orbit phasing, maintenance and tracking, satellite and payload specifications, ground operations, versus number of satellite
 - ☒ In order to fulfil at the best Sea Surface Topography **and** Sea State objectives and requirements

Theme 6: Constellation Optimization Workshop (cont 'd)

⌘ Inputs:

- ☒ Objectives and mission requirements (theme 1 and 2) in terms of sampling, orbit stability/accuracy, error budget
- ☒ Orbit error budget and recommendations (theme 3)
- ☒ Operational/End-user requirements (theme 4)
- ☒ Instrumental specifications and associated error budget
- ☒ Existing statistical and dynamical (assimilation into models) simulations
- ☒ Recommendations from previous working groups
- ☒ On-going multi-satellite analysis (T/P, ERS2, GFO, Jason-1, ENVISAT)
- ☒ Decided mission design (e.g. Jason-2 and NPOESS TBD in 2002)
- ☒ Performance/cost ratios

Theme 6: Constellation Optimization Workshop (cont 'd)



⌘ Achievement through:

- ☒ Reports/Recoms from theme 1, 2 based on simulations and real-multi-satellite data analysis conducted by Gamble members (March 2003)
- ☒ Reports/Recoms from theme 3 (end of 2002)
- ☒ Report/Recoms from theme 4 (end of 2002)
- ☒ Report on instrument specs and error budgets by ASPI and CNES (end of 2002)
- ☒ Presentations/Discussions to the workshop (May 2003 at EGS/AGU ?)
- ☒ Synthesis prepared and approved by the Gamble team (June 2003)
- ☒ Final report to be delivered on September 2003