SSALTO/CALVAL Jason-1 Performance assessment Jason-1 / TOPEX/Poseidon cross-calibration

J.Dorandeu, M. Ablain, Y. Faugère, B. Soussi - CLS. P. Vincent -N. Picot CNES.

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Most of these tools are routinely processed in the SSALTO/CMA Verification steps

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Suality assessment reports are produced on a one cycle basis and associated to the LCDR/CDR dissemination

Since the Jason-1 launch, SSALTO/CALVAL processing has been extensively used to carefully check the data and 26 cyclic reports have been produced on consolidated data

IGDR Update

In order to compare the Jason-1 and TOPEX performances and to perform the cross-calibration between the two types of data, both LGDRs have been updated as follows:

T/P I GDR updates

Jason-1 I GDR updates

* CNES MOE orbit * Jason-1 geophysical corrections (Got99 tide, Inverse Barometer, polar tide) * TOPEX non-parametric SSB (Gaspar

Assessment of algorithm performances and improvements

Cross-calibration of Jason-1, TOPEX/Poseidon, ENVISAT measurements

et al.). New Alt-B model also tested. * 15 mm added to TOPEX range. -15 mm added to Poseidon range (idem GDR-M)

* First non-parametric Jason-1 SSB (Labroue 2002) * Ku Sigma0 corrected for

the right atmospheric effect

* Wallops TOPEX Range calibration





Jason-1 cycle number

Jason-1 Performance Assessment Repeat-track analysis Jason-1 crossover variance at crossovers (DT<10 days) seems comparable to that of



The Jason-1 SLA variability map has 12,5 been computed over 12 more than 8 months of 11.5 data. It shows good 5 1 lason-1 performances for ocean studies. The cycle by cycle



SLA standard deviation exhibits 60-day variations for both Jason-1 and T/P, probably linked to the MOE orbit calculation.



Jason-1 Science Working Team Meeting

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Centre National d'Etudes Spatiales 18 avenue Edouard Belin 31401 Toulouse cedex 4 - France

