

ALTIMETRY FOR OCEANS AND HYDROLOGY

18-22 October 2010 - Lisbon - PORTUGAL



OSTST Meeting

Ocean and hydrology applications workshop

IDS workshop



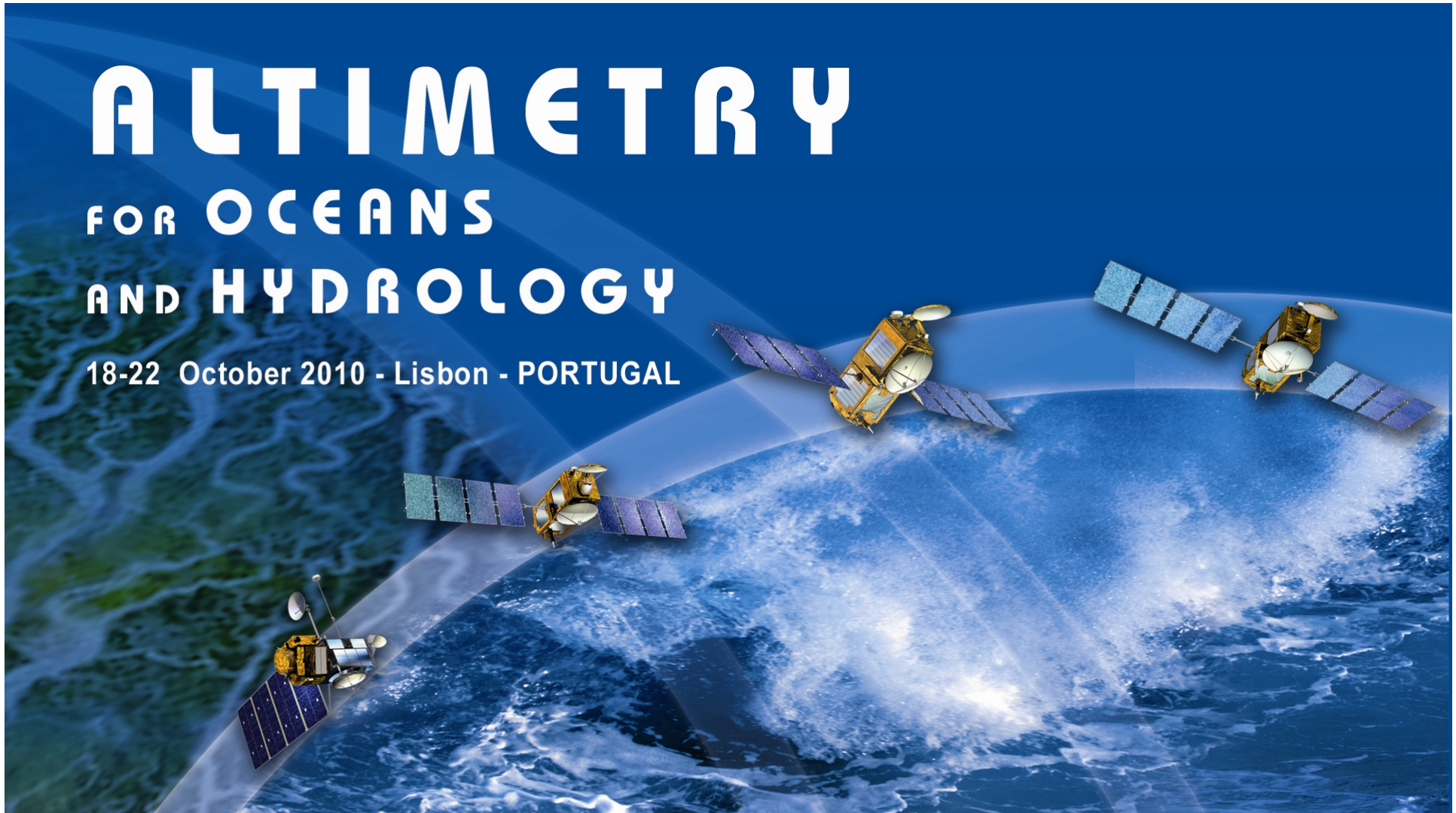
JPL



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Introduction to the Splinter Sessions

Discussions on Present & Future nadir altimeter missions



Splinter sessions & chairs

Local calibration/validation:

Chairs : P. BONNEFOND (GeoAzur), B. HAINES (JPL), S. NEREM (University of Colorado)

Global calibration/validation: focusing on corrections quality assessment and error budget assessment

Chairs : S. DESAI (JPL), N. PICOT (CNES)

Instrument processing

Chairs : P. CALLAHAN (JPL), S. BROWN (JPL), E. BRONNER (CNES)

Geoid and mean sea surface products & impact on altimetry SLA analyses

Chairs : O. ANDERSEN (DTU Space), Y. FAUGÈRE (CLS)

Near real-time product validation and application

Chairs : H. BONEKAMP (EUMETSAT), J. LILLIBRIDGE (NOAA), G. JACOBS (NRL)

Precision orbit determination

Chairs : L. CERRI (CNES), F. LEMOINE (NASA Goddard Space Flight Center)

Tides, internal tides, and high-frequency splinter

Chairs : R. RAY (NASA Goddard Space Flight Center), F. LYARD (LEGOS), R. PONTE (Atmospheric and Environmental Research, Inc.)

60-day variations in J1 & J2

Chairs : N. PICOT (CNES), R. SCHARROO (Altimetrics LLC)

Outreach, education, and altimetric data products and services

Chairs: M. SRINIVASAN (JPL), V. ROSMORDUC (CLS)

Science results and mean sea level studies

Chairs: R. MORROW (LEGOS), J. WILLIS (NASA), L. FU (JPL)

Poster session

OSTST Poster session
Monday 17:00 – 18:30

Followed by the Ice breaker cocktail

Posters may be left up until Wednesday 18h

Certain OSTST posters are also relevant to the High-resolution Workshop on Thursday-Friday

- Authors have been notified
- Selected OSTST Posters are listed in the Workshop poster programme
- If you are staying for the Workshop, and your poster has been selected, you may need to **MOVE** your OSTST poster to its new location for the Workshop on Wednesday evening
- For help : see the secretariat and poster organisers

Session IV.2 - Oceano: What we have learned from in-situ observations

SIV.2-60 16 - **Glider and altimetric data assimilation in the Solomon Sea**
MELET Angélique (LEGI/CNRS)

SIV.2-61 41 - **Localization and vertical structure estimation of an Agulhas Ring based on altimetry and argo floats data**
SOUZA Joao Marcos (IFREMER)

SIV.2-62 **OSTST 147** - **Mesoscale characterization using coastal altimetry and glider: methodology and error budget assessment**
BOUFFARD Jerome (IMEDEA)



Posters on the web

- A complete overview of what was shown during this meeting
- An archive of past OSTST meetings (from 1998)
- Send them in pdf to aviso@oceanobs.com
- Your posters available online at:

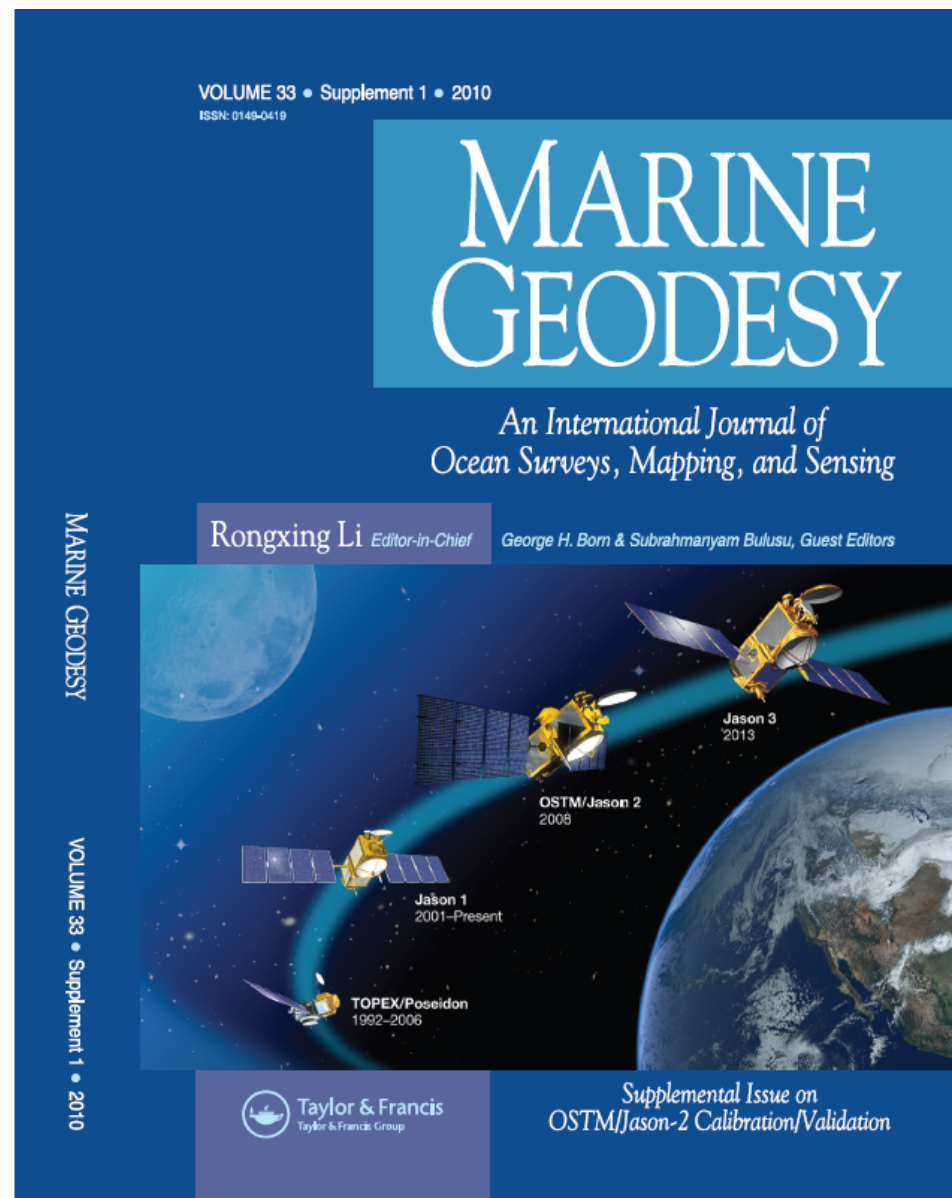
<http://www.aviso.oceanobs.com/ostst/>



OSTM/Jason2 Special Issue

Volume 1 : 25 papers just published

- Dedicated to Yves Menard
- Copies are being sent out to authors





OSTM/Jason2 Special Issue

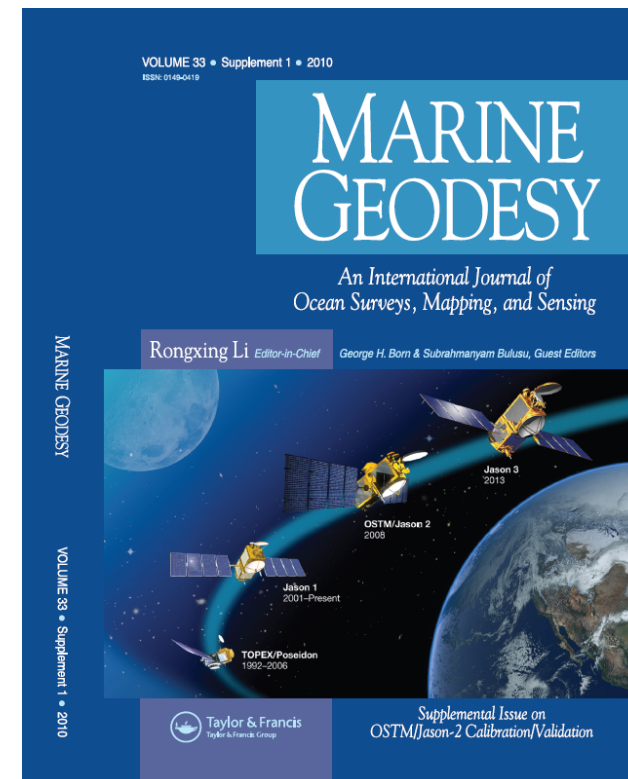
Volume 2 : 28 letters of intention received

- George Born : Guest-Editor
- Deadline for submitting papers :

November 15, 2010

Due to popular demand, **Volume 3** is also being planned, with a deadline next year.

Additional results on OSTM / Jason-2 ???



Discussions : Present & Future altimeter missions

- 1) The first issue concerns a **possible change of orbit for Jason-1**
(Wednesday 8:30)
- 2) The second concerns a **possible change of orbit** for the upcoming **Jason-CS** mission.
(Wednesday 9:30)
- 3) The third issue concerns how to maintain a 1 mm/yr **drift accuracy for the Jason series**, particularly in preparation for Jason-3.
(Wednesday 14:00)

This is a unique opportunity for the scientific community to advise the agencies on what we need as reference missions in the Jason series, and it is important that the OSTST is actively involved in this decision-making.

Jason-1 End-Of-Life Discussion

- G. Shirtliffe introduced the background on the J1-EOL discussion
- Jason-1 continues to meet and exceed all Level-1 science requirements and is providing valuable science returns
- Within the CNES/NASA Jason-1 EOL Joint Working Group, a Science Subgroup was established with the following goals:
 - To summarize the scientific value of Jason-1 in the current tandem orbit
 - To solicit US and French agency assessments of the science and operational value of the current tandem orbit
 - To investigate alternate mesoscale and geodetic ocean science orbit options and limitations within the range of possible Jason-1 orbit change (1336 ± 180 km) (now limited to : 1336 ± 50 km)
 - To provide science recommendations on the timing and duration of future mission activities

Splinter session discussions on J1-EOL

- Main findings of the Science subgroup have been presented to the OSTST and splinter session chairs by email
- Splinter chairs will lead discussion on these findings for each splinter (impact on tides, orbit, CalVal, MSL, NRT applications, etc) of
 - the scientific value of Jason-1 in the current tandem orbit
 - alternate orbit options and limitations
 - timing and duration of future orbit changes
- **Presentation of the Science Working Group findings and recommendations with discussion in Plenary session on Wednesday at 8:30 am.**

Splinter session discussions on Jason-CS

- **Continuity of Service program over a 15-to 20-year time span**
 - More than one mission needed
 - Based on heritage from previous missions - Proven concepts
 - Use of platform of the successfully launched ESA Cryosat-2 mission.
- **Do we stay in the current Jason 10-day repeat orbit?**
- **Can we consider a lower altitude orbit for the Jason-CS series without detrimental effects on the key applications for this reference mission?**
 - Two studies have been completed in this context.
- **Splinter Session chairs will lead discussion on the proposed Jason-CS orbit changes**
- **How would we do the cross-calibration if J-CS on a different orbit?**
- **Town Hall style meeting on Tuesday at 6:20 pm** to discuss the science requirements for Jason-CS reference mission.
- **Presentation and discussion in Plenary session on Wednesday at 9:30 am.**

Splinter session discussions Jason-3 drift requirements

Proposed goal for accuracy of global mean sea level for Jason-3

Goal : Jason 3 shall measure globally averaged sea level relative to levels established during the cal/val phase with zero bias ± 1 mm (standard error) averaged over any one year period.

- Splinter chairs from Instrument Processing and MSL will discuss this
- Presentation and discussion in Plenary session on **Wednesday at 2 pm.**