OSTST10 Instrument Processing Splinter Introduction

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OSTST

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Overview

- Poster Introductions – 3 min
- Two Sessions, plus lots of posters
  - Retracking, SSB
  - Radiometer, OSTM Calibration

- Discussion Points
  - What is needed to maintain errors $<<\sim$ 1 mm/yr ? Over what time scales should drifts be assessed ?
  - Have we met the "no geographically correlated error" requirement ?
  - Are there any orbit choice-related processing issues ?
  - Specific reprocessing, new algorithms recommended ?
  - Discussion of GDR-C proposal
    - What should be done about intrinsic differences of Jason, TOPEX ?

Instrument Processing – Session I.2 Agenda
Monday, Oct 18, 1420 -1630

Time		TITLE	Submitted by
14:20		**Poster Introductions - 1 vugraf 2 min preview**	
14:45		Overview and Update of the Sea State Bias Corrections for the Jason-2, Jason-1 and TOPEX Missions	TRAN Ngan
14:55		Progress towards a wave model enhanced SSB correction for multiple satellite altimeter missions. Spline-based nonparametric estimation for the altimeter sea state bias correction	VANDEMARK Douglas
15:10		DESIGN OF A WIDE SWATH INTERFEROMETRIC ALTIMETER SIMULATOR FOR SEA STATE BIAS ESTIMATON	DUBOIS Pierre
		SEA SURFACE STATE MODELLING FOR SEA STATE BIAS EVALUATION UP TO KA-BAND	DUBOIS Pierre
15:25		KaRIn/SWOT performance analysis tool - Application to near nadir swath extension	MALLET Alain
15:35		High resolution imaging of the ocean surface backscatter by inversion of Altimeter waveforms	TOURNADRE Jean
15:45		Waveform Retracking Testbench OR Bayesian estimation of altimeter echo parameters	THIBAUT Pierre
15:55		Jason-2 GDR-C standards	Picot, Nicolas
16:05		**DISCUSSION: GDR-C standards. Correction drifts. Geographic Correlation of corrections.**	

Instrument Processing – Session III.2 Agenda
Tuesday, Oct 19, 1100 -1230

Time		TITLE	Submitted by
Tue Oct 19		**Splinter Session III.2 Instrument Processing 2**	
11:00		Monitoring Jason 2/AMR Stability using SNO Observations with MetOp/AMSU	CAO Changyong
11:10		TREND AND VARIABILITY OF THE ATMOSPHERIC WATER VAPOR: A MEAN SEA LEVEL ISSUE	OBLIGIS Estelle-Anne
11:20		ERROR STRUCTURES IN ALTIMETRY DATA FROM THE WET TROPOSPHERIC CORRECTION	BROWN Shannon
11:30		An improved wet tropospheric correction for the Cryosat mission over the ocean	STUM JACQUES
11:45		POSEIDON3 DIODE/DEM tracking mode performances and Transponder Calibration	DESJONQUERES Jean-Damien
12:00		**DISCUSSION: Correction drifts. Geographic Correlation of corrections.**	

Instrument Processing – Posters

RADAR ALTIMETRY WAVEFORM INVERSION : TOPOGRAPHY AND WATER BODIES	NIÑO Fernando
~~ANALYTICAL MODEL OF THE ELECTROMAGNETIC BIAS USING THE PHYSICAL OPTICS SCATTERING THEORY~~	~~NAENNA Praphun~~
THE HEIGHT OF ACCURACY: RECOVERING HEIGHT INFORMATION FROM BEFORE THE LEADING EDGE	QUARTLY Graham
Improved spatial resolution and range retrieval accuracy with SAR altimeters over the ocean and the coastal zone: a numerical study	GOMMENGINGER Christine
SIMULATION OF DOPPLER ALTIMETRY SIGNALS: APPLICATION TO THE DEVELOPMENT OF A RETRACKING METHOD FOR SENTINEL 3 SRAL INSTRUMENT	AMAROUCHE Laiba
SENTINEL-3 SURFACE TOPOGRAPHY MISSION SYSTEM PERFORMANCE SIMULATOR AND GROUND PROTOTYPE PROCESSOR AND TOPOGRAPHY EXPERTISE	AMAROUCHE Laiba
ICEBERGS DETECTION IN JASON-2 WAVEFORMS	MERCIER Franck
Waveform Retracking Test Bench OR Baysian Estimation	THIBAUT Pierre

Validation of Jason-2 altimeter data by waveform retracking over coastal ocean	LEE Hyongki
INTER-COMPARISON BETWEEN EXISTING WET TROPOSPHERIC CORRECTIONS FOR COASTAL ALTIMETRY	FERNANDES M. Joana
IMPROVEMENT OF COASTAL AND INLAND WATER AREAS HEIGHT ESTIMATION USING NEW RETRACKING TECHNIQUES	AMAROUCHE Laiba
VALIDATION OF JASON-2 RANGES RETRACKED BY THE PISTACH PROJECT OVER THE AMAZON BASIN WATERS	CALMANT Stephane

Discussion Points

- What is needed to maintain errors <<~ 1 mm/yr ? Over what time scales should drifts be assessed ?

- Have we met the "no geographically correlated error" requirement ?

- Are there any orbit choice-related processing issues ? [No]

- Specific reprocessing, new algorithms recommended ?

- Discussion of GDR-C proposal
  - What should be done about intrinsic differences of Jason, TOPEX ?