



National Oceanography
Centre, Southampton



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→ 3rd COASTAL ALTIMETRY WORKSHOP

17th-18th September 2009 | Frascati (Rome), Italy

Preliminary Programme

(090910)

Programme - Third Coastal Altimetry Workshop, ESA/ESRIN, Frascati (Italy), 17-18 Sept 2009

Day 1, Thursday 17 September 2009

08:00	08:30	Registration and Poster Mounting	
08:30	08:50	Introduction and Objectives of the Workshop	J. Benveniste, P. Cipollini, L. Miller, S. Vignudelli
		Session 1: Coastal Waveforms and Re-tracking	Chairs: P. Callahan, L. Fenoglio-Marc
08:50	09:10	Coastal Altimetry: Case-Studies of Ocean Waveform Contamination	J. Gomez-Enri
09:10	09:30	Jason-2 Waveforms Processing in the PISTACH Project	P. Thibaut et al.
09:30	09:50	Retracking Satellite Radar Altimeter Jason-1 Waveforms in the Coastal Zone: a Case Study of Joint Analysis with Tide Gauges.	X. Deng
09:50	10:10	Automated Inversion and Repicking of Multiple Altimeter Waveforms Using Synthetic Waveform Matching Close to Shore.	D. Fairhead
10:10	10:30	Retracking Jason-1 Waveforms over Inland Waters	Y. Troitskaya
10:30	10:50	Application of a Modified Brown Model to Quasi-Specular Echoes	S. Dinardo
10:50	11:10	Round Table Discussion	
11:10	11:40	Coffee Break	
		Session 2: Improvement of corrections in the coastal zone	Chairs: F. Mercier, R. Scharroo
11:40	12:00	Altimeter Range Corrections and Mean Sea Surface Determination - Revisited	O. Andersen
12:00	12:20	Absolute Dynamic Ocean Topography Along the Brazilian Coast -Estimation, Validation, Application.	W. Bosch
12:20	12:40	GNSS-Derived Path Delay: A Method to Compute the Wet Tropospheric Correction for Coastal Altimetry	J. Fernandes

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12:40	13:00	Mapping Water Vapour at High Resolution: a Possible Support to Coastal Altimetry Tropospheric Corrections	N.Pierdicca
13:00	13:20	Sea Level Measurements and Tidal Analyses in Select Areas of Pacific Ocean, West Atlantic Ocean and Baltic Sea	J. Cherniawsky; Foreman, M.; Scharroo, R.
13:20	13:45	Round Table Discussion	
13:45	15:00	Lunch	
15:00	15:00	Session 2: Improvement of corrections in the coastal zone (cont.)	
15:00	15:20	Wavelet-Based Comparison of Coastal Altimetry Data and In-situ Tide Gauge Measurements Along the West Iberian Coast	S. Barbosa
15:20	15:40	Tide Model Comparison on the Patagonian Continental Shelf	M. Saraceno
15:40	16:00	Round Table Discussion	
		Session 3: Sea Level	Chairs: W. Bosch, G. Larnicol
16:00	16:20	Is Sea Level Rise Larger Near the Coast?	R. Scharroo
16:20	16:40	Vertical Crustal Movements from Comparative Analyses of Spaceborn and Local Sea Level Change Observations.	C. Braitenberg
16:40	16:50	Round Table Discussion	
16:50	17:20	Coffee Break	
		Session 4: Waves	Chairs: S. Labroue
17:20	17:40	Ocean Wave Modelling in the Coastal Zone	S. Abdalla
17:40	18:00	Round Table Discussion	

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Session 5: Future of coastal altimetry

Chair: C. Mavrocordatos

18:00	18:20	An Overview of the Future of Coastal Altimetry	K. Raney
18:20	18:30	Round Table Discussion	
18:30	19:50	Welcome Cocktail and Poster Session	
		Height Datum Connection and the Role of Coastal Altimetry	L. Bao
		GLOBWAVE: A New Generation of Satellite Wave Products	H. Snaith
		Coastal Altimetry Education: Case Studies and Lessons	V. Byfield
		New Tracking Methods for Radar Altimeters Based Bayesian Statistical Principles	P. Challenor
		Development of Coastal Altimetry on the COASTALT Project: A Summary	P. Cipollini
		A Tide Model for the Western Iberian Margin	H.Coelho
		Empirical Cotidal Chart Near Hawaii from 10 Years of TOPEX/Poseidon Altimetry	L. Fan
		Coastal Sea Surface Heights from Improved Altimeter Data and Effect of Local Coastal Characteristics.	L. Fenoglio
		Assessment of Envisat Coastal Altimetry Processor in the Gulf of Cadiz (SPAIN)	P. Lopez-Leon
		Analysis and Forecasting of the Environmental State of Coasts and the Status of Marine Ecosystems with Data Integration	A. Lo Tauro
		Sea Level Trends Observed from Satellite and In-Situ Data in the North Sea and the Baltic Sea	K. Madsen
		CGPS Implementation at the Ibiza, Estartit and Barcelona Harbours for Coastal Altimetry Studies	J. Martinez-Benjamin
		Recent Results for the Determination of the Absolute Altimeter Bias for Jason Satellites Using GAVDOS	S. Mertikas
		Evaluation of Tidal Error in Altimetry Data in the Asian Marginal Seas	A. Morimoto
		Contribution of Improved Altimetry to a Study of Coastal Ocean Dynamics in the Mediterranean Sea(Marina Project)	L. Roblou
		Extraction of M ₂ Internal Tide Near Hawaii Using 10 Years TOPEX/Poseidon Altimeter Data	B. Wang
		Variability of West India Coastal Current from Cross-track Analysis of Jason-1 Sea Level Anomalies - A Preliminary Look	S. Yenamandra
		Update on Web-based Altimeter Service	P.S. Callahan

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Day 2, Friday 18 September 2009

Session 6: New Projects

Chairs: K. Ichikawa, L. Bao

- 08:30 08:50 The PISTACH Project for Coastal Altimetry: Status, Products and Early Results. F. Mercier
08:50 09:00 Round Table Discussion

Session 7: Coastal Applications still using Traditional Altimetry

Chairs: F. Birol, D. Griffin

- 09:00 09:20 Along-Track Estimation of the Taiwan Warm Current by Altimeters, Surface Drifters and Ferry-mounted ADCP Observations K. Ichikawa
09:20 09:40 Coastal Circulation and Upwelling off the West Coast of Baja California, Mexico. A. Trasvina-Castro
09:40 10:00 Comparing Altimetry with Model Results off North and Northwest Iberia L. Garcia-Garcia
10:00 10:20 Assimilation of Alongtrack SSH Altimetry in a Coastal Ocean Circulation Model off Oregon A. Kurapov
10:20 10:40 Round Table: Expected improvements in these applications by using Coastal Altimetry
10:40 11:10 Coffee Break

Session 8: Applications using the new Coastal Altimetry Data

Chairs: J. Wilkin, T. Strub

- 11:10 11:30 Potential Synergy Between Glider and Coastal Altimetry: Case Study over the Balearic Sea J. Bouffard
11:30 11:50 Coastal Altimetry: Examples of Applications F. Birol
11:50 12:10 On the Navidad Events in 2002-2004 as seen by Satellite Altimetry, SST Data and a High Resolution Coastal Model G. Herbert
12:10 12:30 Validation of X-TRACK Coastal Altimetry on the West Florida Shelf Y. Liu

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12:30	12:50	Evaluation of Nearshore Alongtrack Altimeter SSH Data off Central Oregon	T. Strub
12:50	13:10	Altimetry For Coastal Oceanography in Australia - an Assessment of PISTACH	D. Griffin
13:10	13:30	Towards high resolution mean dynamic topography for regional and coastal applications	G. Larnicol et al
13:30	13:45	Round Table Discussion	
13:45	15:00	Lunch	
15:00	16:00	Round Table: Capacity building in Coastal Altimetry How to improve usage of new coastal altimetry data	
16:00	16:10	Workshop Summary and Conclusions	J. Benveniste, P. Cipollini, L. Miller, S. Vignudelli