



Technical Workshop on
Satellite Altimetry Calibration & Deformation Monitoring with GNSS

20-21 January 2011
The Venetian Arsenal building
Center of Mediterranean Architecture,
Old Venetian Harbor,
Chania, Crete,
Greece.

Schedule of Presentations & Discussions
as of 18 January 2011

<http://www.geomatlab.tuc.gr/events-mainmenu-58/workshop-def-monit-a-satel-altim-calibration/objectives>



Under the framework of the FP7-REGPOT-2008-1: Project No. 229885 (SOFIA)

		Thursday, 20 January, 2010
7:30		Registration
9:00		Opening Remarks. <u>S. P. Mertikas</u> , Crete Workshop Convener. <u>Rector and/or Dept Chairman</u> , Technical University of Crete.
		Thursday, 20 January, 2010
		Session 1: Satellite Altimetry Calibration
		Chairs: <i>Pascal Bonnefond (OCA, France), Stelios Mertikas (Greece).</i>
		Objective: To summarize the highlights of satellite and coastal altimetry calibration. Partnering Organizations and Institutes will take active role in this Technical Workshop and will provide a presentation on their established methodologies for calibrating satellite altimetry missions. The objective of these presentations is to share lessons learnt in the calibration and validation of satellite altimeters, and work towards the collective improvement of the calibration process. The session seeks to prompt discussion on methods and common standards, to better facilitate inter-comparison of results and the generation of appropriate and realistic error budgets.. Approaches taken thus far for altimeter calibration, including the use of transponders, will be discussed with an emphasis on describing themajor technical decisions that have been made, together with their justification. Round-table discussion will follow the presentations in the afternoon.
9:30	S1-01	The Bass Strait calibration site in Australia: Methods applied and lessons learnt. <u>C. Watson, N.White, J.Church, R.Burgette, P.Tregoning, R.Coleman</u> , <i>University of Tasmania, Australia.</i>
10:00	S1-02	The Corsica Calibration site. <u>Pascal Bonnefond</u> , <i>Observatoire de la Cote d'Azur, France.</i>
		Coffee Break 10:30-11:00
11:00	S1-03	The Gavdos Calibration site. <u>Stelios Mertikas</u> , <i>Technical University of Crete, Greece</i>
11:30	S1-04	Global cross-calibration of satellite altimeters and possible synergies with absolute local calibrations. <u>Wolfgang Bosch</u> , <i>Deutsches Geodätisches Forschungsinstitut, Germany.</i>
12:00	S1-05	Coastal Altimetry: past, present and future. <u>Stefano Vignudelli</u> <i>and the COASTALT Team, Consiglio Nazionale delle Ricerche, Italy.</i>
12:30	S1-06	Satellite altimetry in coastal regions, tides and the mean sea surface/mean dynamic topography determination. <u>Ole Andersen</u> <i>Danish National Space Center, Denmark.</i>
		Lunch Break 13:00-14:30
14:30	S1-07	GPS-controlled tide gauges in Indonesia: The GITEWS network. <u>T. Schöne</u> , <i>Germany; C. Subarya, Kahfid, P. Manurung, J. Illigner, C. Zech, R. Galas.</i>
	S1-08	A review of the transponder calibration activities in the frame of the GAVDOS project. <u>Walter Hausleitner</u> , <i>Austria, J. Weingrill, J.-D. Desjonquere, N. Picot, S. Mertikas.</i>
		Session 1: Round-Table Discussions
		Chairs: <i>Pascal Bonnefond (OCA, France), Ole Andersen (Denmark)</i>
15:00		Objective: Synthesise from today's presentations appropriate tools, techniques and innovative ideas to develop future plans for achieving calibration and validation of new and different altimetry missions that involve measuring techniques and technology of interferometry, delay-Doppler and wide-swath altimetry..
		Coffee Break 16:00-16:30
17:30		Concluding remarks

Friday, 21 January, 2011

9:00		<p>Session 2: Deformation Monitoring with GNSS Chairs: <i>Ambrus Kenyeres (EUREF, Hungary)</i> & <i>Pascal Willis (France)</i>.</p> <p><u>Objective:</u> Deformation monitoring by continuous Global Navigation Satellite Systems (GNSS) will be addressed. The characteristics of the permanent GNSS networks in Europe, and elsewhere, as well as the models, reference systems and methods used for obtaining reliable horizontal as well as vertical coordinates will be described. Software packages for processing GNSS observations and their solutions will be analyzed. Finally, salient features present in the GNSS signals, used to detect the deformation, will be presented. Approaches to establish absolute height coordinates for calibrating satellite altimeters will also be addressed.</p>
9:00	S2-01	<p>Monitoring Deformation with the GAMIT/GLOBK Software. <u><i>Philippe Vernant, Université Montpellier II, France.</i></u></p>
9:30	S2-02	<p>DORIS monitoring of the Gavdos calibration site in Crete. <u><i>Pascal Willis, Institut Géographique National, France.</i></u></p>
10:00	S2-03	<p>EPN-based products and services in support of ground deformation monitoring. <u><i>Ambrus Kenyeres, C. Bruyninx, A. Caporali, G. Stangl, EUREF.</i></u></p>
Coffee Break 10:30-11:00		
11:00	S2-04	<p>The Hellenic Positioning Service Network of GNSS sites. <u><i>Michael Gianniou, Hellenic Cadastre, Greece.</i></u></p>
11:30	S2-05	<p>Real-time GPS and Hydromet network in Central Asia: The CAWA Project. <u><i>C. Zech; GFZ Germany, A. Zubovich, T. Schöne, H. Thoss, H. Ehtler, S. Barkalov, R. Galas</i></u></p>
12:00	S2-06	<p>The western Crete geodetic infrastructure and the detection of weak signals in the deformation. <u><i>Vasileios Tserolas, S. Mertikas, X. Frantzis and D. Andrikopoulos, TUC, Greece.</i></u></p>
Lunch Break 12:30-14:00		
14:00		<p>Session 2: Round-table discussions Chairs: <i>Pascal Willis (France)</i> and <i>Ambrus Kenyeres (Hungary)</i>.</p> <p><u>Objective:</u> To work together in close collaboration for understanding the salient but weak signals present in the deformation signals, the atmospheric delays, the absolute reference systems and their relation to satellite altimeter calibration.</p>
Coffee Break 15:00-15:30		
17:00		<p>Wrap up, Recommendations & Concluding remarks</p>