

Joint CHAMP/GRACE Science Meeting, GFZ, July 5-8, 2004

Ocean / Ice / Hydrology (OIH) - Session Overview

last update: June 29, 2004

	Talks	Posters
OIH 1: Ocean	1 - 11 Wed, Jul 7, 10:30 – 11:45 12:00 – 13:30	P 1 – P 6
OIH 2: Ice	12 - 15 Wed, Jul 7, 14:30 – 15:30	Wed, Jul 7, 17:45 – 18:30
OIH 3: Hydrology and Temporal Variations in General	16 - 23 Wed, Jul 7, 15:45 – 17:45	P 7 – P 11

OIH 1: Ocean		Wed, Jul 7, 10:30 – 11:45 and 12:00 – 13:30
<u>Session Chair:</u> Rui M. Ponte		
1.	Ocean generated magnetic field and their temporal variations	Manoj, C., Kuvshinov, A., Maus, S. and Lühr, H.
2.	Ocean Bottom Pressure Ground-truth Site for GRACE Validation	T. Kanzow, F. Flechtner, R. Schmidt, H. Miller, Ch. Reigber
3.	Representation of Ocean-Bottom Pressure and Sea-Surface Height in a Global Topography-Following Non-Boussinesq Ocean Model	Y. Tony Song, Victor Zlotnicki, Xiaochun Wang
4.	On the impact of baroclinic ocean dynamics on the Earth's gravity field	Maik Thomas
5.	Bottom Pressure Signals in the Antarctic Circumpolar Current	V. Zlotnicki, L.-L. Fu, D.-N. Yuan and J. Wahr
6.	The ocean general circulation determined from the GRACE fine resolution geoid	Manfred Wenzel, Verena Seufer, Bernadette Fritzsich and Jens Schröter
7.	Mass movements in the ocean: Observed and predicted signals	Chris W. Hughes, Rory J. Bingham and Vladimir N. Stepanov
8.	Preliminary Observations of Global Ocean Mass Variations with GRACE	Don P. Chambers, John Wahr and R. Steven Nerem
9.	Assessing Observed GRACE Oceanic Mass Variations with a Focus on Southern Ocean	Chung-yen Kuo, Alexander Braun, Shin-Chan Han, C. K. Shum, Yuchan Yi

10.	Recent J2 Changes: Results and Implications	Jean O. Dickey, Steven L. Marcus, Katherine J. Quinn, Olivier de Viron, and Ichiro Fukumori
11.	Operational oceanic de-aliasing products simulated with a baroclinic global ocean model	Henryk Dobslaw
OIH 1: Ocean – Posters		Wed, Jul 7, 17:30 – 18:30
P 1	A method to study the sensitivity of simulated ocean circulation to the geoid	Femke C. Vossepoel, Peter Jan van Leeuwen, Radboud Koop
P 2	Verification of an ocean general circulation model with time varying GRACE geoid data	Manfred Wenzel, Frank Flechtner, Roland Schmidt, Christoph Reigber, Verena Seufer, Bernadette Fritzsich and Jens Schröter
P 3	An inverse ocean model for the North Atlantic circulation using the GRACE geoid	Dmitri Sidorenko, Genady Kivman, Sergey Danilov and Jens Schröter
P 4	Improving S2 ocean tides using GRACE gravimetry	Per Knudsen and Ole Andersen
P 5	Evaluating mean dynamic topography models within the GOCINA project	P. Knudsen, A. L. Vest, and O. B. Andersen
P 6	Altimetry and Reflectometry with CHAMP using coherent GPS signal reflections: A feasibility study	G. Beyerle, A. Helm, M. Nitschke, P. Hartl and Ch. Reigber
OIH 2: Ice		Wed, Jul 7, 14:30 – 15:30
<u>Session Chair:</u> Heinz Miller		
12.	Ice loss in Antarctica and lower mantle viscosity from the inversion of SLR time dependent, zonal geopotential components	N. Tosi, R. Sabadini, A.M. Marotta and L.L.A. Vermeersen
13.	Ice mass imbalance and time variable accumulation from GRACE data	Isabella Velicogna, John Wahr
14.	Expected GRACE secular change signal from Greenland ice sheet warming	R. Forsberg and N. Reeh
15.	Regional Glacial Isostatic Adjustment Studies with GRACE and GPS	James L. Davis, Jerry X. Mitrovica and Mark Tamisiea
OIH 3: Hydrology and Temporal Variations in General		Wed, Jul 7, 15:45 – 17:45
<u>Session Chair:</u> Byron Tapley		
16.	Initial time-variable gravity results from GRACE	John Wahr, Sean Swenson, Isabella Velicogna and Victor Zlotnicki
17.	Temporal Variability in the Earth's Gravity Field: Inferences and Comparisons from SLR tracking to Five Geodetic Satellites, CHAMP, GRACE and Geophysical Data.	P Moore, Q Zhang and A Alothman
18.	Time-Variable Gravity from GRACE and Hydrology	R. Schmidt, F. Flechtner, A. Güntner, R. König, Ul. Meyer, K.-H. Neumayer, S. Petrovic, Ch. Reigber, P. Schwintzer, S.-Y. Zhu

19.	Time changes of the European gravity field from GRACE: a comparison with ground measurements from superconducting gravimeters and with hydrology model predictions	J. Hinderer, F. Lemoine, D. Crossley, & J.-P. Boy
20.	Water storage variations in large river basins – comparing results from GRACE and hydrological models	A. Güntner, R. Schmidt, Ch. Reigber, S. Petrovic, F. Flechtner, J. Wunsch, P. Döll
21.	Terrestrial Water Storage Variations from GRACE	J. Famiglietti, J. Chen, S. Holl, M. Rodell, K. Seo, T. Syed and C. Wilson
22.	Degree-2 Harmonics of the Earth's Mass Load Estimated from GRACE, GPS and Earth Rotation Data	Richard S. Gross, Geoffrey Blewitt, Peter J. Clarke, and David Lavallée
23.	Time variable gravity and polar motion: assessing the degree 2, order 1 geopotential coefficients from GRACE	R. M. Ponte, D. Stammer and C. Wunsch
OIH 3: Hydrology and Temporal Variations in General – Posters		Wed, Jul 7, 17:45 – 18:30
P 7	Time variations in the GRACE gravity field: Constraints on global hydrologic mass flux	Carl Wagner, David McAdoo
P 8	Gravity field variation from GRACE on annual scales	Ole B. Andersen
P 9	Time-Variable Gravity Signal from China's Three-Gorges Reservoir	B. F. CHAO and A. Y. Au
P 10	Measurements and Modeling of Surface Water Fluxes in the Amazon Basin	Doug Alsdorf, Ed Beighley, Tom Dunne, John Melack
P 11	Detectability of geoid displacements arising from changes in global ice volumes by the GRACE gravity space mission	K. Fleming, Z. Martinec, D. Wolf and I. Sasgen