**GSTM-2012 Program**

*Tuesday, Sep. 18*

**Session B3: Oceanography and Sea Level - part 1**

**Convener: J. Schroeter/V. Zlotnicki**

08:30 - 08:45 Roman Savcenko, Wolfgang Bosch, Daniel Rieser, Torsten Mayer-Gürr, Johann Wünsch, Christoph Dahle, Frank Flechtner

Empirical ocean tide modeling using altimetry and GRACE

08:45 - 09:00 Eifu Taguchi, Wilfried Zahel, Detlef Stammer

Dissipation of 11 major tidal constituents estimated using the data-assimilative HAMTIDE model

09:00 - 09:15 Bryan Killett, Shailen D. Desai, Dah-Ning Yuan, Michael M. Watkins, David Wiese, Victor Zlotnicki

Antarctic tides from GRACE satellite accelerations

09:15 - 09:30 Silvia Becker, Wolf-Dieter Schuh, Jan Martin Brockmann

Consistent Combination of Gravity Field, Altimetry and Hydrographic Data


Large scale surface loading signals from a GRACE, GPS and OBP combination

09:45 - 10:00 Chia-Wei Hsu, Isabella Velicogna, John Wahr, Eric Rignot

The contribution of ice sheets and land water mass to inter-annual sea level variation
Tuesday, Sep. 18

10:00 - 10:15  
L. Fenoglio-Marc, R. Rietbroek, S. Grayek, T. aus der Beek, M. Becker, J. Kusche, E. Stanev, L. Menzel  
Mass-induced sea level variation in the Mediterranean and Black Sea region

10:15 - 10:30  
Mark E. Tamisiea, Chris W. Hughes, Rory J. Bingham, Joanne Williams  
Weighing the Ocean: Monitoring the mass of the ocean with a single BPR deployment

10:30 - 11:00  
Coffee Break

Session B.3: Oceanography and Sea Level - part 2  
Convener: J. Schroeter/V. Zlotnicki

11:00 - 11:15  
S.-E. Brunnabend, R. Rietbroek, L. Jensen, J. Schröter, J. Kusche  
Sea level fingerprints caused by land ice mass loss

11:15 - 11:30  
Kazuo Shibuya, Hideaki Hayakawa, Yuichi Aoyama, Yoshifumi Nogi, Koichiro Doi  
Ocean bottom pressure variability in the Antarctic Divergence Zone off Lützow-Holm Bay, East Antarctica

11:30 - 11:45  
Don Chambers, Jessica Makowski  
Measuring Zonal Transport Variability of the Antarctic Circumpolar Current Using GRACE Ocean Bottom Pressure

11:45 - 12:00  
Inga Bergmann-Wolf, Henryk Doboslaw  
Wind-driven variations of the Antarctic Circumpolar Current observed by GRACE
**Tuesday, Sep. 18**

12:00 - 12:15  
Sea Surface Topography and Mass Transport of the Antarctic Circumpolar Current (GEOTOP)

12:15 - 12:30  
Grit Freiwald, Silvia Becker, Martin Losch, Wolf-Dieter Schuh  
Impact of Mean Dynamic Topography data from GOCE on an inverse ocean model

12:30 - 12:45  
Y. Tony Song, Frank Colberg  
Deep Ocean Warming Assessed from Altimeters, GRAC, and a Non-Boussinesq OGCM

12:45 - 13:00  
Discussion

13:00 - 14:30  
Lunch
Tuesday, Sep. 18

Session B.3: Oceanography and Sea Level - Poster

poster A. Termens, J.J. Martinez-Benjamin
Some suggestions about satellite and airborne gravimetry geoid determination in the Western Mediterranean sea

poster Daniel Rieser, Torsten Mayer-Gürr, Johann Wünsch, Roman Savcenko, Wolfgang Bosch
Accounting for minor ocean tides with admittance interpolation and nodal corrections – specific aspects within the project COTAGA

poster Grit Freiwald
Ambiguity of signal – error estimates from normal equations

poster Grit Freiwald, Martin Losch, Wolf-Dieter Schuh, Silvia Becker
Weighting of satellite Mean Dynamic Topography data in inverse ocean models

poster J. Virtanen, M. Bliker-Koivula, J. Mäkinen, M. Nordman, H. Virtanen
Baltic Sea mass variations as observed by GRACE

poster J. Wünsch, R. Savcenko, D. Rieser, T. Mayer-Gürr, W. Bosch, F. Flechtner, Ch. Dahle
Overview of the COTAGA project

poster L. Fenoglio-Marc, A. Mariotti, G. Sannino, B. Meyssignac, A. Carillo, M.V. Struglia
Decadal Variability of Net Water Flux at the Mediterranean Sea Gibraltar Strait

poster L. Jensen, R. Rietbroek, J. Kusche
Quantifying land water contributions to sea level change using GRACE and Jason-1 data
Tuesday, Sep. 18

poster  Madlen Gebler, Roelof Rietbroek, Jürgen Kusche, Jens Schröter, Jörg-Olaf Wolff
A joint inversion of GRACE, GPS, modelled and in-situ ocean bottom pressure.

poster  Mark E. Tamisiea, Angela Hibbert, Chris W. Hughes, Andy Matthews
Ocean Bottom Pressure Records at the PSMSL

poster  R.D. Ray, S.B. Luthcke, T. van Dam
GRACE Provides Crustal Loading Corrections for Satellite Altimetry

poster  S. Grayek, T. aus der Beek, L. Fenoglio-Marc, R. Rietbroek, E. V. Stanev, L. Menzel, M. Becker, J. Kusche
Influence of two different river forcing configurations on the thermo-haline characteristics in the Black Sea (2002-2010)

poster  Silvia Becker, Grit Freiwald, Wolf-Dieter Schuh, Martin Losch
Rigorous Fusion of Gravity Field into Stationary Ocean Models (RIFUGIO)

poster  Tijana Janjic, A. Albertella, J. Schröter, R. Savcenko, R. Rummel, W. Bosch
Impact of assimilation of dynamical ocean topography on Southern Ocean circulation estimates

poster  Wolfgang Bosch, Roman Savcenko
Instantaneous Profiles of Dynamic Ocean Topography (iDOT) – here: Investigations on Error Propagation
Session A.3: GRACE GOCE

Convener: T. Gruber

14:30 - 14:45
Thomas Gruber, Rune Floberghagen, Michael Fehringer, Reiner Rummel
The GOCE Mission and its Gravity Field Models – Status and Outlook

14:45 - 15:00
Roland Pail, Thomas Fecher, Michael Murböck, Moritz Rexer, Monika Stetter, Thomas Gruber, Claudia Stummer
Impact of GOCE Level 1b data reprocessing on combined GRACE+GOCE models

15:00 - 15:15
Majid Naeimi, Jakob Flury
Regional gravity field modeling based on the combination of GRACE SST and GOCE SGG data

poster
A. Albertella, R. Savcenko, T. Janjic, R. Rummel, W. Bosch, J. Schröter
MDT from GOCE

poster
Joachim Schwabe, Mirko Scheinert, Heiko Ewert, Reinhard Dietrich
Precise Geoid Modelling for the Determination of the mean Dynamic Ocean Topography in the Region of Weddell Sea, Antarctica

15:15 - 15:45
Coffee Break

15:45 - 18:00
Poster Session