Poster Presentations

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Gravity, Geoid and Earth Observation 2008

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Center of Mediterranean Architecture,
Old Venetian Harbor,
Chania, Crete,
Greece.

Posters can remain on display during their scheduled day from 8:00 in the morning till 19:00. Then they have to be removed. Time for discussions at the Posters will be available after the end of the oral session from 17:30-19:00 everyday except Wednesday. Refreshments will be served during that time.

As of 6 June 2008.

http://www.geomatlab.tuc.gr/GGEO2008

Session 1: Gravimetry (terrestrial, shipborne, airborne) and gravity networks.
Chairs: *Yoichi Fukuda (Japan), Leonid F. Vitushkin (France*)

S1-072	Spatio-temporal filters for use in high speed airborne gravimetry. ***Dru A. Smith, Vicki Childers, Dan R. Roman, Yan M Wang, Jarir Saleh, Xiopeng Li***
S1-134	Post-Newtonian Covariant Formulation for Gravity Determination by Differential Chronometry. ***P.Romero***
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S1-117	Realizing the national gravity system: an improved solution for the Estonian gravity network. ***T. Oja***
S1-214	The French combined geodetic and gravimetric network. ***F. Duquenne, H. Duquenne, J. Beilin***
S1-118	Test results of the LaCoste-Romberg G and Scintrex CG5 spring gravimeters from the repeated measurements of Estonian and Finnish calibration lines. ***T. Oja***
S1-198	Seasonal gravity variations at the Pecný station. ***Vojtech Pálinkás, Jakub Kostelecký***
S1-143	Robust and Efficient Weighted Least Squares Adjustment of Relative Gravity Data. ***F. Touati, S. Kahlouche, M. Idres***
S1-121	Readjusting the old gravity network in Iran using the recently measured gravities. ***A. Soltanpour, B. Sharifat, Y. Hatam, M. Sedighi, H. Cheraghi, R. Saadat***
S1-011	Preliminary results of a GPS/INS airborne gravimetry experiment over the German Alps. ***Ch. Gerlach, R. Dorobantu, N. Kjørsvik, Ch. Ackermann, G. Boedecker***
S1-175	Absolute gravimetry at BIPM, Sèvres (France), at the time of Akihiko Sakuma. ***M. Amalvict***
S1-258	A cold atom gravimeter based on atom interferometry. ***S. Merlet, J. Le Gouët, Q. Bodart, A. Landragin, F. Pereira Dos Santos***
S1-269	Gravity gradients above piers in absolute gravimetry: use remove-restore for the pier attraction. ***J. Mäkinen***
S1-112	Extension of the Croatian Fundamental gravity network to the north Adriatic islands. ***M. Repanic, B. Barisic, I. Grgic, M. Liker, M. Lucic T. Basic***
S1-218	Evaluating Handheld GPS Applications in the Environmental locations of Gully Erosion Sites in the Rural Communities of the Imo State of South East, Nigeria. ***M.N.Ono , J.I Igbokwe, J.D.Dodo***
S1-167	First experience with the portable MPG-2 absolute gravimeter. ***S Svitlov, Ch Rothleitner and L J Wang***
S1-259	Establishment of a New Working Group on Absolute Gravity. ***H. Wilmes, H. Wziontek, R. Falk , R. Forsberg , L. Vitushkin***
S1-261	Comparisons of six absolute gravimeters at four sites 2004–2007. ***J. Mäkinen, M. Bilker-Koivula, , H. Ruotsalainen, V. Kaftan, N. Gusev, N. Korolev, V. Yushkin, R. Falk, W. Hoppe, O. Gitlein***
S1-067	Observing Absolute Gravity Acceleration in the Fennoscandian Land Uplift Area. ***O. Gitlein, L. Timmen, J. Müller, H. Denker, J. Mäkinen, M. Bilker-Koivula, B.R. Pettersen, D.I. Lysaker, J.G.O. Gjevestad, K. Breili, H. Wilmes, R. Falk, A. Reinhold, W. Hoppe, H.-G. Scherneck, O.C.D. Omang, A. Engfeldt, M. Lilje, J. Ågren, M. Lidberg, G. Strykowski, R. Forsberg***
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S1-205	Correcting strapdown GPS/INS gravimetry estimates with GPS attitude data. ***B. Gunter, B. Alberts, A. Muis, P. Chu, L. Huisman, P. Buist, G. Giorgi, C. Tiberius, H. Lindenburg***
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S1-049	DESIRE – Dead Sea Rift Integrated Research Project: Technical approaches and GPS processing results of a helicopter-borne gravity survey over the Dead Sea Rift. ***C. Köhler, I. Heyde, U. Meyer, H.-J. Götze, S. Choi, G. Xu***
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Session 2: Space-borne gravimetry: Present and Future.

Chairs: *Roland Pail (Austria) and Pieter Visser (The Netherlands).*

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S2-105	External Calibration of SGG Observations on Accelerometer Level. ***R. Mayrhofer***
S2-108	Covariance propagation of latitude-dependent orbit errors within the energy integral approach. ***H. Goiginger, R. Pail***
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S2-292	The GOCE User Toolbox. ***Jérôme Benveniste, Per Knudsen and the GUTS Team***
S2-093	The study of the combination approaches in solving the polar gap problems. ***Jianqing Cai, Nico Sneeuw, Xiancai Zou and Oliver Baur***
S2-181	Gravity field determination at the AIUB based on GPS data. ***L. Prange, A. Jäggi, G. Beutler, R. Dach, L. Mervart***
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S2-264	Global Gravity Field Pattern Recognition on the Torus Using First Generation Wavelets. ***M.M. Elhabiby, C. Xu, M. Weigelt, M.G. Sideris.***
S2-208	Repeat orbit design using genetic algorithms. ***M.A. Sharifi, N.J. Sneeuw, T. Reubelt, O. Baur***
S2-106	Gravity field simulator for the evaluation of future gravity field mission concepts. ***R. Pail, R. Mayrhofer***
S2-153	Determination of precise baselines of the FORMOSAT-3/COSMIC tandem satellites using GPS data. ***Tzupang Tseng and Cheinway Hwang***
S2-010	Designing Earth gravity field missions for the future: the role of modeling errors. ***P.N.A.M. Visser***

S2-256	DEOS approach to gravity field modeling from KBR data acquired by the GRACE satellite mission. ***R.Klees, X. Liu, P.Ditmar, E.Revtova, Q. Zhao***
S2-188	Comprehensive modeling of orbital position noise in future satellite data intended for gravity field retrieval. ***J. Encarnação, X, Liu, P. Ditmar***
S2-125	Comparison of satellite formations for gravity field determination. ***J. Encarnação, X, Liu, P. Ditmar***
S2-144	Efficient Algorithm for Deriving Accelerations from Relative Kinematic Ephemerides of LEO GPS-SST. ***F. Touati, S. Kahlouche, M. Idres, N. Benaraba***
S2-294	Laser Interferometry for a future GRACE follow-on mission. ***M. Dehne, B. Sheard, G. Heinzel, K. Danzmann***
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Session 6: Global gravity field modelling & EGM08.
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S6-196	The global gravity field model EIGEN-GL05C – Improvements and Inter-Comparison. ***Christoph Förste, Frank Flechtner, Roland Schmidt, Richard Stubenvoll, Markus Rothacher, Jürgen Kusche, Hans Neumayer, Rolf König, Ulrich Meyer, Franz Barthelmes, Jean Claude Raimondo, Richard Biancale, Jean-Michel Lemoine, Sean Bruinsma***
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S6-138	PGM2007A evaluation for South America. ***Denizar Blitzkow, Ana Cristina Oliveira Cancoro de Matos***
S6-280	Evaluation of the EGM08 Gravity Field over the Arctic Ocean. ***McAdoo, D C, Farrell, S L, Wagner, C A, Laxon, S W, Ridout, A L***
S6-195	Evaluation of the Earth Gravitational Model EGM08 over the Baltic countries. ***A. Ellmann***
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S6-145	Evaluation Of Earth Geopotential Model 2008 In Turkey. ***Ali Kilicoglu, Mehmet Simav, Onur Lenk, Ahmet Direnc, Hasan Yildiz, Bahadir Aktug, Yasemin Uyuklu***
S6-002	Assessment of the preliminary Earth gravity model PGM2007A in Algeria. ***S. A. Benahmed Daho***
S6-298	EGM 08a: simulations for GOCE. ***Klokocnik J., P. Novak, I. Pesek, J. Kostelecky, C.A.Wagner***

Session 4: Geoid modeling and vertical datums.

Chairs: *Ambrus Kenyeres (Hungary) and William Kearsley (Australia).*

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S4-096	Using upward and downward continuation to resolve optimal flight parameters for the GRAV-D project. ***Yan M Wang, J. Saleh , V. Childers , D. Roman and D. Smith***
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S4-062	Detecting spirit-levelling errors in the Australian Height Datum: recent findings and some issues for any new Australian vertical datum. ***M.S. Filmer and W.E. Featherstone***
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S4-139	Grace and the geoid in South America ***Denizar Blitzkow, Ana Cristina Oliveira Cancoro de Matos, Maria Cristina Barboza Lobianco, Ilce de Oliveira Campos***
S4-007	Evaluation of the topographic effect using the various gravity reduction methods for precise geoid model in Korea. ***S .B. Lee, D .H. Lee***
S4-006	Development of Precise Geoid Model for Jeju Island in Korea. ***D. H. Lee, S. B. Lee, H. S. Yun***
S4-045	Determination Of Geoid In Saudi Arabia Using GPS/Benchmark Data And EGM96. ***Mohammad Al Rajhi, Ramazan Yanar, Ali Al Omar***
S4-180	Combination Schemes for Local Orthometric Height Determination from GPS Measurements and Gravity Data. ***A. Fotiou, V.N. Grigoriadis, C. Pikridas. D. Rossikopoulos, I.N. Tziavos, G.S. Vergos***
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S4-038	A New European Gravimetric Quasigeoid EGG2008. ***H. Denker, R. Barzaghi, D. Fairhead, R. Forsberg, J. Ihde, A. Kenyeres, U. Marti, M. Sarrailh, I.N. Tziavos***
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Session 5: Regional gravity field modeling.

Chairs: *Urs Marti (Switzerland) and Steve Kenyon (USA)*

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S5-054	Validation Of The PGM2007A Over Argentina. ***María Cristina Pacino and Claudia Tocho***
S5-104	The new Austrian geoid solution. ***R. Pail, N. Kühtreiber, B. Wiesenhofer, O. Steinbach, G. Of, N. Höggerl, C. Ullrich, D. Ruess***
S5-058	Smoothing effect of topographical corrections on various types of gravity anomalies. ***Hamayun, Tenzer Robert, Prutkin Ilya***
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S5-017	On modelling the regional distortions of the European Gravimetric Geoid EGG97 in Romania. ***Tenzer Robert, Prutkin Ilya, Klees Roland, Rus Tiberiu, Avramiuc Neculai***
S5-019	Long-wavelength part of the topography-generated gravitational field. ***Tenzer Robert , Novák Pavel***
S5-216	Inverse gravimetric problems for GOCE data. ***M. Reguzzoni, D. Sampietro, F. Sansò***
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S5-021	Gravitational field generated by the world ocean mass. ***Hamayun, Tenzer Robert***
S5-032	Further Improvements in the Determination of the Marine Geoid in Argentina by Employing Recent GGMs and Sea Surface Topography Models. ***C. Tocho, G.S. Vergos, M.G. Sideris***
S5-016	Far-zone effects in the direct gravity inversion. ***Tenzer Robert, Prutkin Ilya, Novák Pavel, Ellmann Artu, Vajda Peter***
S5-044	Evaluation Of Recent Global Geopotential Models In Argentina. ***Ayelen Pereira, María Cristina Pacino***
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S5-222	Computing gravity terrain corrections at global scale: An application for the World Gravity Map (WGM) project. ***G. Moreaux, G. Balmino, M. Sarrailh, S. Bonvalot, R. Biancale, A. Briais***
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S5-120	A new attempt to geoid modeling for Iran using the readjusted gravity data. ***A. Soltanpour, M. Sedighi, H. Cheraghi, Y. Hatam, R. Saadat, N. Azizian***

S5-047	A GOCE Regional Validation Experiment with Vertical Deflections in Germany. ***C. Voigt, H. Denker***
S5-005	A Geoid Solution for Airborne Gravity Data. ***Lars Sjöberg, M Eshagh***
S5-122	A fast computation of the vertical deflection components. ***E.A.Boyarsky, L.V.Afanasieva, V.N.Koneshov***
S5-252	The World Gravity Map (WGM) project: objectives and status. ***S. Bonvalot, M. Sarrailh, A. Briais, R. Biancale T. Fayard, G. Gabalda***
S5-158	The Geoid as a Transformation Surface. ***Norbert Kühtreiber and Hussein A. Abd-Elmotaal***
S5-267	Shape of the Solution Domain and the Optimization in Combining Terrestrial and Satellite Gravity Field Data. ***P. Holota***
S5-095	A New Approach for Evaluation of the Global Geopotential Models Using GPS-leveling Networks. ***M. A. Sharifi, M. Abbaszadeh, M. Nikkhoo, M. Najafi***
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S5-297	Interpretation of spatial data sets using two-dimensional least squares spectral analysis. ***Mehdi Nikkhoo, Mehdi Najafi Alamdari, Majid Naeimi***

Session 7: Temporal gravity changes and geodynamics.

Chairs: *Nico Sneeuw (Germany) and Juergen Kusche (Germany).*

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S7-068	Significance of secular trends of mass variations determined from GRACE monthly solutions. ***Jürgen Müller, Holger Steffen***
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S7-046	Quality assessment of non-periodic ocean mass anomalies as seen by various GRACE products. ***H. Dobslaw, and M. Thomas***
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S7-076	Mass Variations in the System Earth – Forward Simulation and Geoid Impact. ***Th. Gruber, L. Zenner, T. van Dam, M. Thomas, H. Dobslaw, P. Visser, B. Vermeersen, M.F.B. Bierkens, L.P.H. van Beek, J. Bamber, R. Gladstone***
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S7-253	Integration of water mass variation in the Mediterranean - Black Sea and watershed system. ***L. Fenoglio-Marc, R. Rietbroek, S. Grayek, M. Becker, J. Kusche, E. Stanev***
S7-183	Improving ocean tide models by a joint estimation using GRACE and altimetry data. ***T. Mayer-Gürr, R. Savcenko***
S7-078	Impact of Atmospheric & Oceanic Uncertainties on GRACE De-Aliasing Products. ***Lieselotte Zenner, Thomas Gruber***
S7-083	Ground-based gravimetry as a tool to monitor water storage in karst aquifers. ***T. Jacob, R. Bayer, J. Chery, N. Le Moigne, H. Jourde, J.-P. Boy, P. Brunet, J. Hinderer, B.Luck, F. Boudin***
S7-097	Greenland ice sheet mass loss from GRACE data. ***Louise Sandberg, Rene Forsberg***

S7-245	Gravity field variations and mass transport in 2003-2006. ***X. Liu, P.Ditmar, R.Klees, E.Revtova, Q. Zhao, C. Slobbe, B. Vermeersen, R.Riva***
S7-057	Glacial isostatic adjustment in Fennoscandia from GRACE data: A signal separation with the help of geodynamical and hydrological models. ***Holger Steffen, Jürgen Müller, Heiner Denker***
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Chairs: *Richard Gross (USA) and Hans-Peter Plag (USA).*

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Chairs: *Alexander Braun (Canada) and Rene Forsberg (Denmark).*

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Chairs: *Wolfgang Bosch (Germany), Masato Furuya (Japan), Roger Haagmans (ESA).*

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