International Symposium
Gravity, Geoid and Height Systems 2
Practical information and program

Arranged and sponsored by

DTU Space
National Space Institute

International Association of Geodesy
International Gravity Field Service
Welcome to Copenhagen and GGHS2018

The meeting is held at the “Black Diamond”, the new building of the Royal Library. There is code-free access to internet across the building, and many corners with chairs for informal discussions and a café.

Please note that the whole building is a public area – refreshments will be served in front of the main hall – “Dronningesalen”, or in the poster area. Please wear your badge at all times. The Friday meeting will be in the room “Bli xen” on the 2nd floor.

Registration

The Registration desk is located in front of the meeting venue. Please make sure you have paid your registration online, see www.space.dtu.dk/gghs2018, or have got confirmation for special arrangements.

Oral presentations

Please submit your oral presentation as .ppt, .pptx or .pdf file, absolute latest in the break before your session (but preferably the day before). DTU students will be available to help you with upload.

Poster sessions

Posters (A0 portrait) can be up from Monday noon, until Thursday evening. Please remove your posters after the Thursday evening poster session, as the KB staff will put in chairs for the next day’s sessions.

Social Events

There will be an icebreaker in the “Chr IV Bryghus”, Frederiksholms Kanal 29, at the “Stone Loft”, immediately after the Monday sessions (Icebreaker reception start at 17:30). The location is across the street along the canal just west of the Black Diamond, follow the signs. You will have drinks tickets in your registration kit. Extra tickets can in special cases be made available from the organizers.

The Wednesday symposia dinner will be held at “Spiseloppen”, in Christiania, Bådsmandsstræde 43 (2nd floor of old military building), starting from 19:00. This event is free, and open for all registered persons.

Registered associate persons are welcome at both events, as well as the opening sessions. A special excursion will be arranged on Tuesday am for the associates, more information at the registration Monday.
Program - Gravity, Geoid and Height Systems, Copenhagen, Sept 2018

Monday SEP17

1000- Registration, Black Diamond Foyer

ORAL presentation schedule

Opening session

1030 Op-1 Srinivas Bettadpur, University of Texas

Welcome and practicalities - DTU Space (Rene Forsberg, Kristian Pedersen/director)
The Black Diamond location and the Royal Library (Pernille Drost/vice-director)

1045 Op-2 Nassim Zahzam, Alexandre Bresson, ONERA

From GRACE to GRACE Follow-on

1100 Op-3 Laura Sanchez, J Agren, J Huang, M Véronneau, W Yang, D Roman, G Vergos

Cold atom interferometry: from ground to space


Advances in the establishment of the International Height Reference Frame (IHRF)

1200 Op-4 Niraj Manandhar, Survey Dept. of Nepal

Role of gravimetric geoid in redetermining the height of Mount Sagarmatha (Everest)

Session 1: Current and future satellite gravity missions (convenors: T Gruber, D Wiese)

1400 S1-O1 Felix Landerer, Frank Flechtner, Frank Webb, Phil Morton, Michael Watkins, Himanshu Save, Christoph Dahle, Srinivas Bettadpur

GRACE Follow-On: The next chapter of time-variable gravity observations from space

1415 S1-O2 B. Christophe, B. Foulon, F. Liorzou, J. Bergé, E. Hardy, P-A. Huynh

GRACE-FO accelerometers behavior after 4 months in orbit

1430 S1-O3 Michael Murböck, Christoph Dahle, Grzegorz Michalak, Hans Neumayer, Frank Flechtner, Oleh Abrykosov, Anton Reinhold, Rolf König, Henryk Dobslaw, Liangjing Zhang, Ingo Sasgen, Andreas Groh, Volker Klemann

Overview of current GRACE/GRACE-FO Level 2 and Level 3 processing at GFZ

1445 S1-O4 Bryant D Loomis, Terry J Sabaka, Scott B Luthcke, Michael J Croteau, Boulder

Quantifying the spatiotemporal tradeoffs of GRACE mascons: Daily, monthly, and trends

1500 S1-O5 Torsten Mayer-Gürr, Saniya Behzadpour, Matthias Ellmer, Beate Klinger, Andreas Kvas, Sebastian Strasser, and Norbert Zehentner

ITSG-Grace2018: The new GRACE time series from TU Graz

Coffee break


Observing Earth’s mass transport processes with the Swarm satellites
1600 S1-O7 Ulrich Meyer, Christoph Dahle, Frank Flechtner, Himanshu Save, Srinivas Bettadpur, Felix Landerer, Carmen Boening, Andreas Kvas, Torsten Mayer-Gürr, Jean-Michel Lemoine, Sean Bruinsma, Adrian Jäggi

COST-G: The new International Combination Service for Time-variable Gravity Field Solutions of the IAG/IGFS

1615 S1-O8 David N. Wiese, Christopher M. McCullough, Dah-Ning Yuan, Felix W. Landerer, Carmen Boening, Jet Propulsion Laboratory, California Institute of Technology

The JPL RL06 GRACE Gravity Solutions

1630 S1-O9 Jan Martin Brockmann, Till Schubert, Wolf-Dieter Schuh, University of Bonn, Institute of Geodesy and Geoinformation, Theoretical Geodesy Group

Towards the 6th release of the time-wise GOCE models: processing status and preliminary results

1645 S1-O10 Wolf Dieter Schuh, Till Schubert, Ina Loth, Jan Martin Brockmann, Boris Kargoll, Leibniz University Hannover, Geodetic Institute, Hannover, Germany

Advanced time series analysis to estimate tailored stochastic models for the global gravity field processing.

Tuesday SEP 18

900 S1-O11 P. Knudsen, O. Andersen, N. Maximenko

A combined mean dynamic topography model – DTU17cMDT.

915 S1-O12 Roland Pail and European Gravity Science Team

Mass variation observing system by high-Low inter-satellite links (MOBILE) – a mission proposal in response to ESA’s Earth Explorer 10 call

930 S1-O13 Markus Hauk, Roland Pail

Gravity field recovery by high-precision high-low inter-satellite links

945 S1-O14 Jürgen Müller, Hu Wu

Using optical clocks and quantum gradiometers onboard satellites for determining the Earth’s gravity field

1000 S1-O15 W. Liu, N. Sneeuw

A triple-pair tandem constellation mitigating ocean tide aliasing

1015 S1-O16 Roland Pail, Hsien-Chi Yeh, Sino-European Study Team

Joint Sino-European study on the next-generation gravity field missions based on double- and multi-pair constellations

Coffee break

1100 S1-O17 Petro Abrykosov, Roland Pail, Thomas Gruber, Nassim Zahzam, Alexandre Bresson, Bruno Christophe, Emilie Hardy

A novel hybrid accelerometer and its impact of the performance of gravity field determination

1115 S1-O18 Federica Migliaccio, Mirko Reguzzoni, Khulan Batsukh, Guglielmo Tino, Gabriele Rosi, Fiodor Sorrentino, Carla Braitenberg, Tommaso Pivetta, Dora Francesca Barbolla, Simona Zoffoli

GOCE mission follow-on by cold atom technology: the MOCASS study

Session 2: Global gravity Field Modelling (D Roman, S Jin)

1130 S2-O1 Daniel Barnes, Sarah Ingalls, Clif Minter, Manny Presicci, Jim Beale

2017/8 Updates: Earth Gravitational Model 2020

1145 S2-O2 Ole B. Andersen, P Knudsen, W Smith, D Sandwell, D McAdoo, K Marks

Marine Gravity Field Mapping from Altimetry – Advancement with 2nd Generation altimeters.
High resolution gravity field modelling using SAR altimetry. First results from the Arctic and Northeast Atlantic Ocean.

GOCE based gravity field models – Signal and error assessment

Improved L1b and L2 products from the GOCE re-processing campaign

High-resolution combined global gravity field modelling - Next generation XGM Models

Assessment of recent gravity filed models in the context of understanding deep Earth’s structure

The AFRGDB_V2.2 Updated Gravity Database for Africa

Status of the FAMOS collaboration to improve the Baltic Sea gravity data and geoid model

Geoid and DOT in the Mediterranean area: the Geomed2 project

Validation of terrestrial and airborne gravity data over Antarctica – A generic approach

Wednesday SEP 19

NGS Geoid computation experiment in Colorado

Report on Colorado geoid comparisons

A least-squares quasi-geoid model for the Netherlands, Belgium, and the Dutch Continental Shelf

Validation of geoid models in the Baltic Sea using marine GNSS observations in the FAMOS project

Spectral considerations of MIMOS theory in gravity and geoid modelling through the assimilation of satellite-based geopotential models
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<td>The impact of noise in a GRACE/GOCE global gravity model on a regional quasi-geoid</td>
<td>D.C. Slobbe, R Klees, H.H. Farahani</td>
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<td>Evaluating the performances of an operational Absolute Quantum Gravimeter</td>
<td>P. Vermeulen, N. Lemoigne, V. Ménoret, C. Busquet, B. Desruelle, J. Lautier-Gaud, S. Merlet, A. Landragin, A. K. Cook, S. Bonvalot</td>
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<td>Simultaneous gravity measurements of absolute and superconducting gravimeters between 1995 and 2018 at Metsähovi, Finland, and comparisons with environmental loading effects</td>
<td>H. Virtanen, M. Bilker-Koivula, A. Raja-Halli, J. Näränen, H. Ruotsalainen, J. Mäkinen</td>
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Improving Land Vehicle Gravimetry with SINS/GNSS/VEL Federated Filtering Method

Shipborne Gravimetry Data Processing using GNSS-derived kinematic vertical accelerations

Status of the International Absolute Gravity Reference System

Absolute gravity network in South America - Comparisons

Gravity changes due to the 2016 Kaikoura earthquake

Vertical datum unification for the International Height Reference System (IHRS)

The permanent tide in the International Height Reference System (IHRS)

Geodetic reference system consistent with the IHRF $W_0$ value

The current status and future plans of the height reference system in Japan

Investigation of Tropical Hydrology Effects in the Development of the Philippine Height System

An Update to Dynamic Heights Estimation on the Great Lakes

geo-Q – Relativistic Geodesy and Gravimetry with Quantum Sensors

On the status and perspectives of chronometric levelling and classical geodetic techniques

Potential determination at coastal stations from the synergy of SAR/SARin altimetry and local gravity data towards the IHRS
1415  **S5-O10**  O. Andersen, P. Knudsen, K. Nilsen, C. Hughes, S. Williams, P. L. Woodworth, R. Bingham, M. Gravelle, L. Fenoglio-Marc, S. Williams, M. Kern  
Dynamical Coastal Topography and tide gauge unification using altimetry and GOCE. Summation of findings and progress on GNSS reflectometry for Coastal sea level.

1400  **S5-O11**  D.C. Slobbe, R. Klees, M. Verlaan, F. Zijl, and H.H. Farahani  
Height system connection between island and mainland using a hydrodynamic model: a case study connecting the Dutch Wadden islands to the Amsterdam ordnance datum (NAP)

1445  **S5-O12**  Thomas Gruber, Martin Willberg, Nikolas Pfaffenzeller  
Geodetic Space Sensors for Height System Unification and Absolute Sea Level Determination

**Session 6: Satellite altimetry and applications (O Andersen, X Deng)**

1500  **S6-O1**  R. S. Nerem, M. Croteau, J. Fasullo, B. Hamlington  
Using Satellite Gravity Measurements to Unravel the Satellite Altimeter Record of Sea Level Change

1515  **S6-O2**  Marcel Kleinherenbrink, Remko Scharroo, and Riccardo Riva  
Is there an acceleration in the global mean sea level record? Revisiting TOPEX calibrations using ERS1&2 crossovers and tie gauges.

1530  **S6-O3**  Ole Andersen, Lars Stenseng and Per Knudsen  
A new DTU18 MSS Mean Sea Surface – improvement from SAR altimetry.

**Poster Session II (S4-S7) with refreshments**  
See poster titles below

**Friday SEP 21 - Session 6 (continued)**

900  **S6-O4**  Nikolaos K. Pavlis, Marvin B. May, David C. LeDoux, Booz Allen Hamilton  
A Dynamic Ocean Topography Model Implied by HYCOM

915  **S6-O5**  Vassilios D. Andritsanos and Ilias N. Tziavos  
Central Mediterranean DOT estimation through spectral combination of altimetric, surface and satellite gravity data.

930  **S6-O6**  T. Nikolaidou, M. Santos, F. Nievinski  
Tropospheric delays in ground-based GNSS reflectometry – Assessment of ad-hoc models against ray-tracing simulations

945  **S6-O7**  Marijan Grgić, Matej Varga, Tomislav Bašić, Robert Steven Nerem  
The application of coastal and standard altimeter data for the study of the impact of sea level rise

1000  **S6-O8**  Adili Abulaitijiang, David Sandwell, Ole Andersen, Mathilde Cancet, Jerome Benveninte, David Cotton  
The contribution of DTU17 marine gravity for the Arctic bathymetry prediction

**Session 7: Mass transport and climate-relevant processes (C Boening, A Eicker)**

1015  **S7-O1**  Minkang Cheng  
Variations in the Earth’s dynamic oblateness and equatorial ellipticity from SLR and GRACE

**Coffee break**

1100  **S7-O2**  Henryk Dobslaw, Liangjiong Zhang, Meike Bagge, Volker Klemann, Maik Thomas  
Separating GRACE-based ocean bottom pressure estimates into spatially variable sea-level and ocean circulation components

1115  **S7-O3**  Gonca Okay Ahi, Shuanggen Jin  
Extreme drought conditions in Turkey observed by satellite gravity measurements
### S7-O4
Laura Jensen, Annette Eicker, Vincent Humphrey

Soil moisture memory in climate models compared to observations from GRACE and precipitation data

### S7-O5
Anna Purkhauser, Roland Pail and Markus Hauk

NGGM Near-Real Time Gravity Data Applicability Regarding Extreme Weather Phenomes: First Results. How to optimize the spatial resolution of GRACE data for studying mass anomaly trends of the Greenland and Antarctic Ice Sheets?

### S7-O6
Pavel Ditmar, Olga Engels, Roland Klees

How to optimize the spatial resolution of GRACE data for studying mass anomaly trends of the Greenland and Antarctic Ice Sheets?

### S7-O7
Ingo Sasgen, Shafqat Abbas Khan, Bert Wouters, Sarah Woodroffe

A new glacial-isostatic adjustment model for Greenland constrained by GPS uplift rates and relative sea-level data

### S7-O8
Akbar Shabanloui, Victoria Kroeger and Jakob Flury

Integrated gravimetrical and geometrical mass variations in Greenland

### Q&A - Closing event, IAG/IGFS

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**POSTER presentations**

**POSTERS CAN BE UP FROM MONDAY PM TO THURSDAY PM - Format A0 portrait**

**Tues S1-P1**
Benahmed daho Sid Ahmed, Meslem Aissa Mohamed

External assessment of GRACE/GOCE based geopotential models over Algeria by using collocated GPS/Levelling observations and new gravity anomalies data

**Tues S1-P2**
Markus Hauk, Roland Pail, Anna Purkhauser, Thomas Gruber

Constellations of Next Generation Gravity Missions: Simulations regarding optimal orbits and mitigation of aliasing errors

**Tues S1-P3**
Karim Douch, Annike Knabe, Hu Wu, Jürgen Müller, Gerhard Heinzel

What is required to recover the time-variable gravitational field using satellite gradiometry?

**Tues S1-P4**
Per Knudsen, O. Andersen, T. Fecher T. Gruber, N. Maximenko

A new OGMOC mean dynamic topography model – DTU17MDT.

**Tues S1-P5**
Per Knudsen, Jerome Benveniste and GUT Team

GOCE User Toolbox and Tutorial

**Tues S1-P6**
Michal Kollár, Róbert Čunderlík, Karol Mikula

Nonlinear reaction-diffusion filtering of the GOCE gravity gradients.

**Tues S1-P7**
Mirko Reguzzoni, Federica Migliaccio, Khulan Batsukh, Andrea Gatti

Improvements of the space-wise products from the GOCE data reprocessing

**Tues S1-P8**
Christian Siemes, Luca Massotti, Olivier Carraz, Roger Haagmans, Pierluigi Silvestrin

ESA’s Studies of Next Generation Gravity Mission Concepts

**Tues S1-P9**
Christian Siemes, Moritz Rexer, Anja Schlicht, Roger Haagmans

The calibration of the GOCE gravity gradiometer

**Tues S2-P1**
Th. Gruber & The OGMOC Team

Optimal Ocean Geoid as Reference Surface for Mean Ocean Circulation and Height Systems

**Tues S2-P2**
Elmas Sinem Ince, Franz Barthelmes, and Sven Reissland

New features of the International Centre for Global Earth Models (ICGEM)

**Tues S2-P3**
Rezene Mahatsente

Plate Locking Mechanism of the Central Andes Subduction: Combined Modelling of Satellite and Terrestrial Gravity Data
<p>| Tues S3-P1 | Adili Abulaitijiang, Will Featherstone, Ole Baltazar Andersen and Per Knudsen | Coastal marine gravity improvement from recent satellite altimetry |
| Tues S3-P2 | Kevin Ahlgren, Yan Ming Wang, Xiaopeng Li, Jordan Krcmaric | Experimental Geoid Models for American Samoa and Guam/Central Northern Mariana Islands: xGEOID18S and xGEOID18G |
| Tues S3-P3 | Fernando Sansò, Riccardo Barzaghi, Mirko Reguzzoni | The reason why the GNSS levelling equation cannot be used to evaluate the geoid at 1 cm accuracy level |
| Tues S3-P4 | Bihter Erol, M. Serkan Işık | Methodology Assessment of High Resolution Geoid Modeling Using The GRAV-D Data Over Colorado |
| Tues S3-P5 | Claudio Brunini, Laura Sánchez, Hermann Drewes, Romina Galván, Mauricio Gende | Modelling non-tidal loading signals by the combination of GNSS and GRACE data at the normal equation level |
| Tues S3-P6 | Martina Capponi, Mirko Reguzzoni, Fernando Sansò | Geoid estimation by Bayesian approach: experiments on simulated and real data |
| Tues S3-P7 | Dongming Zhao, Hongzhou Chai, Rongqin Lan, Zuoping Gong | The Surface Layer Integral Method for the Modelling of the Gravity Gradient Tensor over Sea Surface |
| Tues S3-P8 | Serdar Erol, Bihter Erol, M. Serkan Işık | Data Quality Assessments for High-frequency Geoid Modeling in Turkey |
| Tues S3-P9 | V.N. Grigoriadis, G.S. Vergos, R. Barzaghi, D. Carrion | The IGFS metadata for geoid. Structure, build-up and application module. |
| Tues S3-P10 | V.N. Grigoriadis, G.S. Vergos, D.A. Natsiopoulos | Geoid/Quasi-geoid modeling based on the remove-restore approach with the JWG2.2.2 Colorado dataset and contributions to the IHRF |
| Tues S3-P11 | Vlassilos N. Grigoriadis, Stavros G. Kampourakis, Malamati-Dimitra S. Bantola | Using in-situ depth measurements for the assessment of errors induced in gravity field modeling from Global Bathymetry Models: Preliminary results |
| Tues S3-P12 | Kristian Keller, Aslak Meister | Investigations and Development of a Danish 5 mm geoid |
| Tues S3-P13 | Katerina Morozova, Janis Balodis, Gunars Silabriedis, Ansis Zariņš, Reiner Jäger | Preliminary results on Quasi-geoid of Latvia using vertical deflection observations |
| Tues S3-P14 | E L Nicacio, A G Santacruz, S R C de Freitas, R Dalazoana | Evaluation of GGMs spectral completion technique enhanced by terrain effect correction for modelling height anomalies in Brazil |
| Tues S3-P15 | Martin Pitoňák, Pavel Novák, Michal Šprlák, Mehdi Eshagh, Hogsoklan Vast | Local spectral downward continuation of the first-, second- and third-order radial derivatives of the gravitational potential onto gravity disturbances on the Earth surface |
| Tues S3-P16 | Fatima Feyza Sakil, Serdar Erol, M. Serkan Işık, Bihter Erol, Artu Ellmann | Comparison of Least Squares Modifications of Stokes’s and Hotine’s Formula Using Point-wise and Gridded Gravity Data |
| Tues S3-P17 | Martina Capponi, Daniele Sampietro, Ahmed Mansi | A new software for airborne gravimetry survey simulation |
| Tues S3-P18 | Hezi Sarid, Yan Ming Wang, Sagi Dalyot | Hybrid Geoid Model for Israel |
| Tues S3-P19 | Joachim Schwabe, Uwe Schirmer, Gunter Liebsch, Christoph Förste, Franz Barthelmes, Hartmut Pflug, Elmas Sinem Ince | Shipborne gravity campaigns and regional geoid modeling in the Baltic Sea in the framework of the FAMOS project |</p>
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<td>Variation in subsurface water storage resolved from repeated relative gravity measurements between surface and underground stations</td>
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<td>Thurs</td>
<td>S4-P11</td>
<td>D. Markovinović, O. Bjetotomić Oršulić, T. Bašić</td>
<td>Gravity measurements in investigations of caves - case study tunnel „Mala Kapela“ in Croatia</td>
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<tr>
<td>Thurs</td>
<td>S4-P12</td>
<td>Ilya Oshchepkov</td>
<td>A first look at GINEX: the Gravimeter Independent Exchange Format</td>
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<td>Thurs</td>
<td>S4-P13</td>
<td>Tommaso Pivetta, Dora Francesca Barbolla, Carla Braitenberg</td>
<td>Gravity change rate of tectonic signals of mountains</td>
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<tr>
<td>Thurs</td>
<td>S4-P14</td>
<td>P. Schack, P. Kümerle, R. Pail, D. Becker, T. Jensen</td>
<td>Performance analyses of the pilot project GraviRied</td>
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<td>Thurs</td>
<td>S4-P15</td>
<td>Manuel Schilling, Annike Knabe, Ludger Timmen, Jürgen Müller, Étienne Wodey, Christian Meiners, Dorothee Tell, Christian Schubert, Wolfgang Ertmer, Dennis Schlippert, Ernst M. Rasel</td>
<td>Establishing an absolute gravimetric reference with a 10 m atom interferometer</td>
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<td>Thurs</td>
<td>S4-P16</td>
<td>Gabriel Strykowski, Arne V. Olesen, Jens Emil Nielsen, Tim Enzlerberger Jensen, René Forsberg</td>
<td>Automated collection and processing of marine gravimetric data in Denmark</td>
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<td>Thurs</td>
<td>S4-P17</td>
<td>Hartmut Wziontek, Ezequiel D. Antokoletz, Reinhard Falk, Claudia Tocho, Claudio Brunini</td>
<td>Determination of Scale Factor and Instrumental Drift of the Superconducting Gravimeter installed at the Argentinean-German Geodetic Observatory (AGGO)</td>
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<tr>
<td>Thurs  S4-P18</td>
<td>Peter Schack, C. Hirt, M. Hauk, W.E. Featherstone, T.J. Lyon, S. Guillaume</td>
<td>A high-precision digital astrogeodetic traverse in a coastal area of steep geoid gradients</td>
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<tr>
<td>Thurs  S5-P1</td>
<td>Denizar Blitzkow, Ana Cristina Oliveira Cancoro de Matos, Cleiton de Carvalho Carneiro, Sonia Maria Alves Costa</td>
<td>First efforts for the IHRF establishment in Brazil</td>
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<td>Thurs  S5-P2</td>
<td>Michal Buday, Viliam Vatrt, Lubomil Pospíšil</td>
<td>Computation of the quasigeoid-geoid separation for the territories of the Czech Republic and the Slovak Republic</td>
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<td>Thurs  S5-P3</td>
<td>Riccardo Barzaghi, José L. Carrión S., Sílvio R. Correia de Freitas</td>
<td>Geopotential computation on the Ecuadorian Vertical Datum</td>
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<td>Thurs  S5-P4</td>
<td>L. Sánchez, S. R. C. de Freitas, W. Martínez, M.V. Mackern, V.J. Cioce, R. Pérez-Rodino</td>
<td>Advances in the modernisation of the height reference systems in Latin America and their integration to the International Height Reference System (IHRS)</td>
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<tr>
<td>Thurs  S5-P5</td>
<td>Gabriel do Nascimento Guimarães, Valéria Cristina Silva</td>
<td>Estimating the geopotential value at Brazilian tide gauge using GOCE gravity fields models</td>
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<tr>
<td>Thurs  S5-P6</td>
<td>Gunter Liebsch, Joachim Schwabe, Martina Sacher, Uwe Schirmer</td>
<td>Germany’s unified geodetic reference 2016 – Development, implementation and future perspectives</td>
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<tr>
<td>Thurs  S5-P7</td>
<td>E L Nicacio, J L Carrión, S R C de Freitas, R Dalazoana, V G Ferreira</td>
<td>Strategy for calculating local potential values as IHRS coordinates – a case study on the Colorado empirical experiment</td>
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<td>Thurs  S5-P8</td>
<td>Tomasz Olszak, Dorota Marjańska, Dominik Piętka</td>
<td>Validation and fitting of European Gravimetric Geoid EGG08 in context of realisation of EVRS system in Poland</td>
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<td>Thurs  S5-P9</td>
<td>Martin Willberg, Philipp Zingerle, Roland Pail</td>
<td>Least squares collocation with global model information for height systems</td>
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<td>Thurs  S5-P10</td>
<td>Hu Wu, Jürgen Müller</td>
<td>Optical clock networks for height system unification</td>
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<tr>
<td>Thurs  S6-P1</td>
<td>Masume Akbari, Michael G. Sideris</td>
<td>Determination of lake and river level variations in Canada from satellite altimetry</td>
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<tr>
<td>Thurs  S6-P2</td>
<td>Elzbieta Birgiel, Artu Ellmann, Nicole Delpeche-Ellmann</td>
<td>Performance of Sentinel-3 and CryoSat-2 altimetry in the coastal regions of the Baltic Sea</td>
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<tr>
<td>Thurs  S6-P3</td>
<td>Armin Agha Karimi, Xiaoli Deng and Ole Baltazar Andersen</td>
<td>Sea level variation around Australia: consideration of significant periodic signals and the relation to climate indices</td>
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<tr>
<td>Thurs  S6-P4</td>
<td>Öykü Koç, Serdar Erol, M. Serkan Işık, Bihter Erol</td>
<td>Validation of Mediterranean Sea MSS and Marine Geoid using Recent Global and Regional Models, Local Tide Gauge and Coastal Altimetry Products</td>
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<tr>
<td>Thurs  S6-P5</td>
<td>D.A. Natsiopoulos, G.S. Vergos, I.N Tziavos</td>
<td>Selective filtering of DOT through spatial filtering and Wavelet Multiresolution Analysis</td>
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<tr>
<td>Thurs  S7-P1</td>
<td>Simon Deggim, Annette Eicker</td>
<td>The influence of small-scale mass variations on GRACE water storage estimates</td>
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<tr>
<td>Thurs  S7-P2</td>
<td>Vagner Ferreira, Thomas Grombein, Kurt Seitz, Bernhard Heck</td>
<td>On the equal-area spherical panels to estimate the continental water-mass variations from GRACE measurements</td>
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<tr>
<td>Thurs  S7-P3</td>
<td>Forsberg,R, L Sørensen, S Simonsen,V Barletta, J Dall, A Kusk, T Nagler, M Hetzenecker, K Hauglund, K Khvorostovsky, A Shepherd, S Andersen, C Hvidberg, M Howarth, M Engdahl</td>
<td>Two and a half decades of spaceborne measurements of Greenland ice sheet changes from GRACE, satellite altimetry and SAR velocities</td>
<td></td>
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</tbody>
</table>
Comparison of long-term absolute gravimeter observations with GRACE and global hydrology models

EOF and PCA analysis of GRACE induced EWT variations and early forecasting results based on stochastic Kalman filtering

Study of water storage variations at the Pantanal wetlands area from GRACE monthly mass grids

A combined land hydrology model for North America

Wavelet MRA as a tool for destriping GRACE extracted Equivalent Water Thickness variations

Assimilation of GRACE-induced EWT with a Global precipitation model to improve spatial resolution, trend and seasonal signal recovery through PCA and EOF analysis

Geocenter motion and Earth’s dynamic oblateness time-series derived from GRACE CSR RL06 solutions and geophysical models

SPLINTER MEETINGS

Tuesday (Main lecture hall / Dronningesalen):
15:45-17:00 EGM2020 Evaluation Working group – S Bettadpur [closed]

Wednesday (Holberg Room, 2nd floor):
13:00-14:00 NKG / NGA EGM2020 database meeting – J Agren [closed]
14:00-15:00 IGFS Steering board [open] – G Vergos, R Barzaghi [open]
15:30-17:00 IHRF + Colorado experiment splinter – L Sanchez and Y Wang [open]

Thursday (Holberg Room, 2nd floor):
13:00-14:00 IAG Commission 2 splinter meeting – R Pail [open]
14:00-15:00 JWG 2.1.1 Splinter meeting (gravity reference system/frame) – H Wziontek [open]
16:15-17:00 FAMOS Baltic Sea project meeting – J Agren [closed]

Questions?

Please contact the registration desk ... or any from the DTU Space GGHS team
Emergency mobile contacts: +45-6169-5504 (Maria Gleerup), +45-2540-2775 (Rene Forsberg)