



International Association of Geodesy

Newsletter

July 2012

Editor: Gyula Tóth

IAG Communication and Outreach Branch
MTA-BME Research Group for Phys. Geod. and Geodyn.
Department of Geodesy and Surveying
Budapest University of Technology and Economics
H-1521 Budapest, Hungary

Information Service of the International Association of Geodesy

<http://www.iag-aig.org>

newsletter@iag-aig.org

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The *IAG Newsletter* is under the editorial responsibility of the *Communication and Outreach Branch* (COB) of the IAG.

It is an open forum and contributors are welcome to send material (preferably in electronic form) to the IAG COB (newsletter@iag-aig.org). These contributions should complement information sent by IAG officials or by IAG symposia organizers (reports and announcements). The *IAG Newsletter* is published monthly. It is available in different formats from the IAG new internet site: <http://www.iag-aig.org>

Each *IAG Newsletter* includes several of the following topics:

- I. news from the Bureau Members
- II. general information
- III. reports of IAG symposia
- IV. reports by commissions, special commissions or study groups
- V. symposia announcements
- VI. book reviews
- VII. fast bibliography

Books for review are the responsibility of:

C.C Tscherning
University of Copenhagen
Dept. of Geophysics
Copenhagen, Denmark
Fax: +45 35365357
E-mail: cct@gfy.ku.dk

General Announcements

IAG monthly news for GIM – IAG page in the GIM International July 2012

The IAG become a partner with the magazine GIM International from the start of 2012. We would join sister geospatial organisations such as the FIG, ISPRS, ICA, GSDI & OGC in having a monthly page of news. The sixth article titled “*GGOS and the IAG*” for the *July 2012* issue of GIM is available from the webpage http://www.gim-international.com/issues/articles/id1897-GGOS_and_the_IAG.html.

CHRIS RIZOS
President of IAG

Invitation for proposals for changes to the IAG Statutes and Bylaws

Article 16 of IAG’s Statutes specifies that the Association shall review its Statutes and Bylaws to ensure an up-to-date structure of its scientific organization every eight years. The last time such a review was initiated was about eight years ago under the presidency of Gerard Beutler. It is now therefore time that we again take a fresh look at our Statutes and Bylaws. To achieve this goal, a Review Committee (traditionally called the Cassinis Committee) was appointed in the fall of 2011 by the IAG Executive. The committee is chaired by Michael Sideris and includes as members Harald Schuh, Ruth Neilan and Yoichi Fukuda. A proposal with all suggested revisions will be made by the Cassinis Committee for consideration by the IAG Executive and possibly the Council at the 2013 Scientific Assembly. In this way, we are hoping to get the Council’s reaction and input to the proposed changes before these are finalized and approved at the next IUGG General Assembly in 2015.

With this announcement, the Cassinis Committee is inviting proposals for changes of any article of the Statutes and Bylaws. Proposals can be submitted through the IAG website Forum (www.iag-aig.org/proposals). The actual Statutes and By-laws can be found on the IAG website. All proposals submitted **between March 1, 2012 and February 1, 2013** will be considered by the Cassinis Committee.

We are very much looking forward to receiving your contributions.

MICHAEL SIDERIS, HARALD SCHUH, RUTH NEILAN, YOICHI FUKUDA

Meeting Announcements

7th IHO-IAG ABLOS Conference

ABLOS is pleased to announce that planning continues for its Seventh Conference from *October 3rd to 5th 2012* at the *Salle du Ponant in Monaco*.

This year’s Conference theme is ‘UNCLOS in a Changing World’. Conference Chairman Chris Carleton and the Organizing Committee, in association with the Institut du Droit Économique de la Mer (INDEMER) of Monaco, invite presentations that discuss how the practice and application of the Law of the Sea are or may be affected by contemporary developments. The abstract deadline has been extended to **July 31st** in order to broaden the scope of the conference.

A Keynote Address will be delivered by Professor Robert C. Beckman, Director of the Centre for International Law at the National University of Singapore.

A notable departure from previous Conferences will be the concurrent scheduling of the Annual Meeting of the IOC-IHO General Bathymetric Chart of the Oceans (GEBCO). ABLOS Conference participants are invited to arrive a day early in Monaco in order to attend the GEBCO Science Day on October 2, at the International Hydrographic Bureau in Monaco.

More information concerning the ABLOS Conference is posted on the official website at http://www.iho.int/mtg_docs/com_wg/ABLOS/ABLOS_Conf7/ABLOS_Conf7.htm, where details can be

found regarding: hotel accommodations in Monaco; suggested session topics; procedures for registration; and submission of abstracts. Please note that the early registration fee applies only until July 31st.

Conference organizers look forward to welcoming you and your colleagues to this year's event.

SUNIL BISNATH
ABLOS Vice-Chair

Meetings Calendar

AOGS-AGU (WPGM) Joint Assembly

August 13-17, 2012, Singapore, Singapore

URL: <http://www.asiaoceania.org/aogs2012/>

International Symposium on Space Geodesy and Earth System (SGES2012)

August 19-20, 2012, Shanghai, China

URL: <http://www.shao.ac.cn/meetings>

ESC 2012

August 19-24, 2012, Moscow, Russia

European Seismological Commission 33rd General Assembly

URL: www.esc2012-moscow.org

International Astronomical Union General Assembly

August 20-31, 2012, Beijing, China

URL: <http://www.astronomy2012.org/>

International Summer School on Space Geodesy and Earth System

August 21-25, 2012, Shanghai, China

URL: <http://www.shao.ac.cn/schools>

IAU Joint Discussion (JD7): Space-time reference systems for future research

August 27-29, 2012, Beijing, China

URL: http://www.iau.org/science/meetings/future/joint_discussions/1058/

4th Digital Earth Summit 2012

September 2-4, 2012, Wellington, New Zealand

URL: <http://www.digitalearth12.org.nz/>

EUMETSAT Satellite Meteorology Conference

September 3-7, 2012, Sopot, Poland

URL: http://www.eumetsat.int/Home/Main/News/Conferences_and_Events/810062?l

Scientific Colloquium of the Leibniz Society

September 14, 2012, Berlin, Germany

Leibniz Society of Sciences at Berlin (www.leibniz-sozietaet.de) organizes a Scientific Colloquium on the topics of scientific geodesy and history of geodesy. Contact person: Heinz Kautzleben (kautzleben@t-online.de)

WEGENER 2012

September 17-20, 2012, Strasbourg, France

URL: <http://wegener2012.scienceconf.org>

GRACE Science Team Meeting 2012

September 17-20, 2012, Potsdam, Germany

URL: <http://www.gfz-potsdam.de>

6th Coastal Altimetry Workshop

September 20-21, 2012, Riva del Garda, Italy

URL: <http://www.coastalaltimetry.org/>

20 Years of Progress in Radar Altimetry

September 24-29, 2012, Venice, Italy

URL: <http://www.altimetry2012.org/>

IDS Workshop

September 25-26, 2012, Venice, Italy

URL: <http://ids-doris.org/report/meeting-presentations/ids-workshop-2012.html>

14th IAIN Congress

October 1-3, 2012, Cairo, Egypt

14th International Congress for the International Association of Institutes of Navigation

URL: <http://www.ainegypt.org/site/pages.php?ids=4>

7th ABLOS Conference

October 3-5, 2012, Salle du Ponant, Monaco

URL: http://www.iho.int/mtg_docs/com_wg/ABLOS/ABLOS_Conf7/ABLOS_Conf7.htm

Geodätische Woche 2012

October 9-11, 2012, Hannover, Germany

URL: <http://www.iapg.bv.tum.de/gw>

European VLBI Network (EVN) Symposium

October 9-12, 2012, Bordeaux, France

URL: <http://evn2012.obs.u-bordeaux1.fr/>

International Symposium on Gravity, Geoid and Height Systems GGHS 2012

October 9-12, 2012, Venice, Italy

URL: <http://www.gravityfield.org/>

Workshop on Reflectometry using GNSS and Other Signals

October 10-11, 2012, Prudue University, West Lafayette, IN, USA

URL: <http://www.gnssr2012.org/>

GOCE Solid Earth Workshop

October 16-17, 2012, Enschede, The Netherlands

URL: <http://www.itc.nl/gocesolidearth/>

SIRGAS Meeting 2012

October 20-31, 2012, Concepcion, Chile

URL: <http://www.sirgas.org>

25th CODATA General Assembly

October 26-27, 2012, Beijing, China

URL: <http://www.codata.org>

Pan Ocean Remote Sensing Conference (PORSEC-2012)

November 5-9, 2012, Kochi, Kerala, India

URL: <http://www.porsec2012.incois.gov.in/>

Satellite, Lunar, and Planetary Laser Ranging: Characterizing the Space Segment

November 5-9, 2012, Frascati, Italy

URL: <http://www.lnf.infn.it/conference/laser2012/>

Seventh Meeting of the International Committee on Global Navigation Satellite Systems (ICG)

November 5-9, 2012, Beijing, China

URL: <http://www.icg2012.cn/>

ACM SIGSPATIAL GIS 2012

November 6-9, 2012, Redondo Beach, California, USA

URL: <http://acmgis2012.cs.umd.edu/>

Workshop "Geodäsie und Geophysik auf fliegenden Plattformen (insbes. auf HALO)"

November 8-9, 2012, Potsdam, Germany

URL: <http://tpg.geo.tu-dresden.de/geohalo/>

SOMAP 2012

November 22-23, 2012, Vienna, Austria

URL: <http://somap.cartography.at/>

AGU 2012 Fall Meeting

December 3-7, 2012, San Francisco, USA

URL: <http://www.agu.org/meetings/>

FIG Commission 3 Workshop and Annual Meeting 2012

December 10-14, 2012, Athens, Greece

URL: http://bit.ly/FIG3_Athens2012

European Geosciences Union General Assembly 2013

April 7-12, 2013, Vienna, Austria

URL: <http://www.egu.eu/meetings/meeting-overview.html>

The European Navigation Conference ENC 2013

April 23-25, 2013, Vienna, Austria

URL: www.enc2013.org

International Symposium on Mobile Mapping Technology 2013

April 30 - May 2, 2013, Tainan, Taiwan

URL: <http://conf.ncku.edu.tw/mmt2013/wm02.htm>

TransNav 2013

June 19-21, 2013, Gdynia, Poland

URL: <http://transnav2013.am.gdynia.pl>

ICEO-SI 2013

June 23-25, 2013, Tainan City, Taiwan

URL: <http://www.iceo-si2012.com/> (announcement)

Joint IAMAS-IACS Assembly

July 8-12, 2013, Davos, Switzerland

Davos Atmosphere and Cryosphere Assembly 2013, Ice & Air – Process Interactions

URL: www.daca-13.org

Joint IAHS-IAPSO-IASPEI Scientific Assembly

July 22-26, 2013, Gothenburg, Sweden

URL: <http://www.iaspei.org/meetings/forthcoming.html#iaspei2013>

26th International Cartographic Conference

August 25-30, 2013, Dresden, Germany

URL: <http://www.icc2013.org/>

12th IAGA Scientific Assembly

August 26-31, 2013, Mérida, Mexico

URL: www.iaga2013.org.mx

IAG Scientific Assembly

September 1-6, 2013, Potsdam, Germany

URL: <http://www.iag2013.org>

TGSMM 2013

September 17-20, 2013, St Petersburg, Russian Federation

IAG Third Symposium "Terrestrial Gravimetry: Static and Mobile Measurements - TGSMM-2013

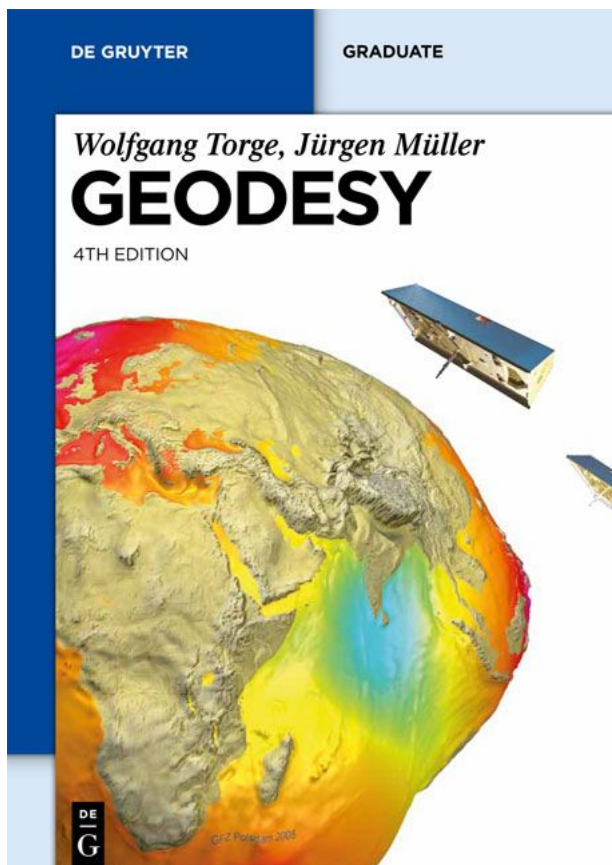
AGU 2013 Fall Meeting

December 9-13, 2013, San Francisco, USA

URL: <http://www.agu.org/cgi-bin/gycal?details=1&file=2013120900320182043&li>

Book Review

Wolfgang Torge, Jürgen Müller: *Geodesy (4th edition)*



Title: Geodesy (4th edition)
Authors: Wolfgang Torge, Jürgen Müller
Publisher: De Gruyter Incorporated, Walter
Series: de Gruyter Textbook
ISBN: 978-3-11-025000-8
Year: 2012
Price: 44.95 EUR, 63 USD

Pages: X, 434, 111 b/w, 80 color illustrations
Details: Paperback. Available as e-book

Finally the new edition of W.Torge's Geodesy is published. This time with he's successor as a professor in Hannover, Jürgen Müller as co-author. This reviewer has successfully used the earlier editions of "Geodesy" in teaching at the University of Copenhagen, and for sure this new edition will be as successful as the earlier version. It covers all of geodesy except "plane surveying", a subject covered by many other fine textbooks.

The book is thoroughly revised and extended with the important results achieved in the years since the last edition (2001). The section on Satellite Observations has been extended with descriptions of the current missions like GRACE and GOCE. Geodynamics is well treated in an extended chapter on "Structure and Dynamics of the Earth". The book contains an extensive bibliography with 500 references added since the edition of 2001. Look for your own name there. But what is extremely important is the index, which makes the book useful as a handbook for everyone. The book also includes many fine figures and illustrations, now also in color.

A few critical points for consideration for the 5th edition. The free-air gravity anomaly is introduced twice. At first as a quantity referring to the geoid and then later as a quantity referring to the telluroid following the definition of Molodensky. These two definitions should be found together on the same page.

Normal gravity at the ellipsoid is the basic quantity with a free-air contribution added to get normal gravity. However with calculations in space in mind the use of the expansion in Legendre polynomials (described in the text) is a much more consistent way to calculate normal gravity at ground or in space.

Least-squares collocation is to the great satisfaction of the reviewer treated in a separate section. Here is missing reference to the equivalent mathematical model of Reproducing Kernel Hilbert Spaces used when creating analytic models of the covariance function. It is also mentioned that the method is (was) restricted, because as many equations as the number of unknowns have to be solved. Here the situation has dramatically changed due to the use of multiprocessing and faster computers.

What is missing now is information on available software and data (some internet-links are given however). But maybe this information ought to be collected and updated by the Outreach Branch of the International Association of Geodesy. A set of (solved) exercises would also be very useful. The authors should be encouraged to create a web-site with such material.

It is a wonderful book with so much important information covering all of modern geodesy. The authors are to be congratulated for this important work.

C.C. TSCHERNING
University of Copenhagen