



**International
Association of
Geodesy**
Newsletter

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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

ILRS News

The next International Workshop on Laser Ranging was previously scheduled to be held in Concepcion Chile in January 2011. Unfortunately, due to the devastation from the earthquake that occurred in February of this year, it is no longer possible to hold the workshop as previously planned in Concepcion. BKG has graciously offered to host the 17th workshop in Bad Kötzing, Germany, near the Wettzell Geodetic Observatory, from May 16-20, 2011. More information on the workshop program, etc. will be available in the coming weeks.

CAREY NOLL
ILRS CB

Meeting Announcements

2nd General Assembly of the IGFS

September 20-22, 2010, Fairbanks, Alaska, USA

The 2nd General Assembly of the IGFS - International Gravity Field Service will be held 20-22 September, in Fairbanks, Alaska, USA. Alaska has spectacular natural beauty, and exceptional geodetic and geophysical signals due to its active tectonics, volcanism, and rapid changes in the cryosphere. With the ability to measure gravity field changes by satellites (GRACE), as well as by superconducting and repeated absolute gravity, applications of gravity field information have spread from geodesy and geophysics into much broader application areas such as climate studies, glaciology and hydrology, and the meeting will pay special attention to these themes in addition to the geodetic science. Registration is open now via our website, as is abstract submission. More information is on our website, and please email the conference email if you have problems.

- The [preliminary program is now available for download in PDF format](#).
- The cutoff date for regular registration is **September 1**.

Website: <http://www.gps.alaska.edu/IGFS2/>

Email: igfs2@gi.alaska.edu

JEFFREY FREYMUELLER
for the LOC

First International School on “The KTH Approach to Modeling the Geoid”

September 20-24, 2010, Istanbul, Turkey

After the successful experiences in the determinations and evaluations of precise local geoid models in different countries, we plan to arrange the First International Geoid School based on the KTH approach. (KTH is a Swedish abbreviation for Royal Institute of Technology, Stockholm, Sweden.). The school takes place on September 20-24, 2010, at, and hosted by, the Department of Geomatic Engineering, Yildiz Technical University, Istanbul, Turkey. The geoid school is lead by

Prof. Lars E. Sjöberg
Royal Institute of Technology
Division of Geodesy
Stockholm, Sweden
Head of Geoid School

Prof. Serif Hekimoglu
Yildiz Technical University
Institute of Geomatic Engineering
Istanbul, Turkey
Head of L. O. C.

In case of with-drawal of registration after August 31, please contact H.O.C. There will be a registration desk at the meeting place on Monday September 20, 8-9 am. Detailed information and registration form can be downloaded from the following webpage: <http://www.infra.kth.se/geo/events/geoidschool.html>.

MOHAMMAD BAGHERBANDI
Division of Geodesy
Royal Institute of Technology (KTH)

International Doris Service Workshop 2010

October 21-22, 2010, Lisbon, Portugal

The next International DORIS Service (IDS) workshop will take place at the Lisbon International Fair in Portugal, from 21-22 October 2010.

The purpose of this workshop is to bring together representatives from all DORIS groups to share information about the network, data, products, and to perform inter-comparisons. Developments and scientific results in all aspects of the DORIS system will be highlighted. The meeting will be a forum for discussion and coordination of future activities.

The IDS workshop will be organised in conjunction with:

- The Ocean Surface Topography Science Team (OST-ST) meeting, 18-20 October 2010
- a special meeting: Towards higher resolution remote sensing of ocean dynamics and terrestrial surface waters, 21-22 October 2010

Structure of the meeting:

The IDS workshop will include thematic sessions and a splinter working session over a period of 2 days. The sessions will consist of oral presentations and posters. Among the topics to be discussed will be DORIS results with the new satellites (Jason-2 & Cryosat-2) and progress towards an operational IDS combination.

The workshop is organised by CNES and EUMETSAT.

Organising Committee:

EUMETSAT: Gabriele Kerrmann, Francois Parisot, Madeleine Pooley

CNES: Laurence Amen, Nicole Bellefond, Sophie Coutin-Faye, Pascale Ferrage (IDS)

The Scientific Committee will draw up a programme and an agenda at a later stage, according to the submitted abstracts.

Scientific Committee:

Frank G. Lemoine (chair), John Dow, Laurent Soudarin, Petr Stepanek, Pascal Willis.

Details regarding this IDS workshop as well as more general information on the two other associated meetings are posted on the conference web site <http://ostst-hydro-2010.com/>.

PASCALE FERRAGE

Observing and Understanding Earth Rotation

A Joint GGOS/IAU Science Workshop

October 25-28, 2010, Shanghai, China

The Earth's rotation, encompassing both the rate of rotation and the location of the rotation axis with respect to the Earth's crust, is not constant but changes on all observable time scales from subdaily to decadal and longer. The wide range of time scales on which the Earth's rotation changes reflects the wide variety of processes that are causing it to change, including external tidal forces, surficial fluid processes involving the atmosphere, oceans, and hydrosphere, and internal processes acting both within the solid Earth itself and between the fluid core and the solid Earth. Knowing the rotational response of the Earth to these global-scale processes allows Earth rotation measurements to be used to study them.

Measurements of the Earth's time varying rotation have been traditionally provided by optical astrometry and the space-geodetic techniques of satellite and lunar laser ranging (SLR and LLR), very long baseline

interferometry (VLBI), global navigation satellite systems (GNSS), and Doppler orbitography and radio positioning integrated by satellite (DORIS). However, the launch of the GRACE twin gravity satellites in March 2002 and the densification of the global GNSS ground receiver network afford new opportunities for studying the Earth's rotation. GRACE is directly observing the effect of mass redistribution on the Earth's rotation, and the global network of GNSS ground receivers can be used to infer changes in the load acting on the Earth's surface and its effect on the Earth's rotation from observations of changes in the Earth's shape. Combining independent observations of the Earth's rotation, gravity, and shape will enable greater insight into the common processes causing them to change.

The Global Geodetic Observing System (GGOS) of the International Association of Geodesy (IAG) provides the geodetic infrastructure necessary for monitoring the Earth system, including changes in its rotation, gravity, and shape. This joint Science Workshop, organized by both GGOS and the International Astronomical Union (IAU), on Observing and Understanding Earth Rotation will be a forum for assessing our current ability to observe the Earth's time varying rotation, for assessing our current understanding of the causes of the observed variations, for assessing the consistency of Earth rotation observations with global gravity and shape observations, for exploring methods of combining Earth rotation, gravity, and shape observations to gain greater understanding of the mass load acting on the surface of the solid Earth, and for identifying improvements in the global geodetic observing system needed to further our understanding of the Earth's variable rotation.

Please visit <http://GGOS-C19.shao.ac.cn/> for more information about this exciting workshop.

RICHARD GROSS

Contentious Issues In UNCLOS – Surely Not?

The Sixth ABLOS Conference: 25-27 October 2010

The Advisory Board on the Law of the Sea (ABLOS) is a subsidiary body of the International Association for Geodesy (IAG) and of the International Hydrographic Organization (IHO). One of its mandates is to organize regular conferences that explore and clarify the interface between marine law and science.

The Sixth ABLOS Conference is scheduled for October 25-27, 2010, at the International Hydrographic Bureau in Monaco. This meeting will again gather specialists from a variety of disciplines to discuss challenges that arise in the application of marine science and technology while taking into account the juridical requirements of the UN Convention on the Law of the Sea (UNCLOS). This year's Conference Proceedings will be added to the accumulation of 125 or so Web-accessible presentations that have been delivered at the five previous Conferences, and which address numerous aspects of state practice and jurisprudence in the Law of the Sea.

A registration form can be downloaded from <http://www.gmat.unsw.edu.au/ablos/ABLOS10Folder/ABLOS2010ConfRego.pdf>

A certain number of rooms have been pre-booked at hotels in and close to Monaco. A hotel booking form can be downloaded from <http://www.gmat.unsw.edu.au/ablos/ABLOS08Folder/ABLOS2010HotelForm.doc>

Conference Organizing Committee

Conference Chairman	Chris Rizos, University of New South Wales
COC Chairman	Ron Macnab, Geological Survey of Canada (Retired)
Programme coordinators	Chris Carleton and John Brown, UK Hydrographic Office
Advisor, Geodesy	Lars Sjoberg, Swedish Royal Institute of Technology
Advisor, Hydrography	Luiz Carlos Torres, Hydrographic Service of the Brazilian Navy
Secretariat services	Steve Shipman, International Hydrographic Bureau
Communications	Sunil Bisnath, York University, and Ron Macnab, Geological Survey of Canada (Retired)

CHRIS RIZOS



2011 IAG General Assembly
at IUGG2011: “Earth on the Edge: Science for a Sustainable Planet”
Melbourne Convention and Exhibition Centre, Australia
 28th June – 7th July, 2011

- Registrations opened 16th August, 2010
- Abstract submission period 16th August, 2010 – 17th January, 2011
- Conference website now open: <http://www.iugg2011.com>
- Scientific program of symposia, workshops, fieldtrips, symposia convenors, plenary and keynote speakers already available on website

The next IAG General Assembly will be held as part of the major IUGG2011 international conference at the new Melbourne Convention and Exhibition Centre from 28th June to 7th July, 2011. IUGG (or the International Union for Geodesy and Geophysics) is a collaborative grouping of eight scientific learned societies or associations, as follows:

- International Association of Geodesy (IAG)
- International Association for Cryospheric Sciences (IACS)
- International Association of Geomagnetism and Aeronomy (IAGA)
- International Association of Hydrological Sciences (IAHS)
- International Association of Meteorology and Atmospheric Sciences (IAMAS)
- International Association for the Physical Sciences of the Ocean (IAPSO)
- International Association of Seismology and Physics of the Earth’s Interior (IASPEI)
- International Association for Volcanology and Chemistry of the Earth’s Interior (IAVCEI)

Each association has organised its own comprehensive program of symposia, which is already available on the conference website. In addition, there will be many symposia organised by two or more associations on topical, inter-disciplinary themes, there is a conference plenary speakers program, and most symposia will have invited keynote.

The IAG Scientific Program consists of the following program of symposia:

IAG ONLY SYMPOSIA (see website www.iugg2011.com under Scientific Program for symposia descriptions, convenors names and Keynote Speakers)

- G01** Reference Frames from Regional to Global Scales
- G02** Monitoring and Modelling of Mass Displacements by Geodetic Methods
- G03** Monitoring and Modelling Earth Rotation
- G04** Multisensor Systems for Engineering Geodesy
- G05** Geodetic Imaging Techniques
- G06** Towards a Unified World Height System
- G07** High Precision GNSS

IAG - JOINT ASSOCIATION SYMPOSIA (see website www.iugg2011.com under Scientific Program for symposia descriptions, convenors names and Keynote Speakers)

- J-G01** Space Geodesy-based Atmospheric Remote Sensing as a Synergistic Link between Geodesy and Meteorology
- J-G02** Application of Geodetic Techniques in Cryospheric Studies
- J-G03** History of Geosciences from Terrestrial to Spaceborne Observations

J-G04 Structure and Deformation of Plate Interiors
J-G05 Integrated Earth Observing Systems
J-G06 Tectonic Geodesy and Earthquakes

The theme for **the** IUGG2011 conference at large is “*Earth on the Edge: Science for a Sustainable Planet*”. IUGG2011 will be the largest multi-disciplinary geophysical meeting to be held in Australia, and in excess of 3,000 delegates are expected to attend. In addition to the IAG specific program outlined above, the scientific program will address many of the environmental, sustainability and hazard issues facing the Earth, including climate change, extreme weather events, melting glaciers and ice-caps, rising sea-levels, water in arid countries, earthquake hazards and tsunamis, and volcanic hazards, processes and natural resources. It should thus be a fantastically stimulating conference.

The conference website is now open at <http://www.iugg2011.com>, with information about the conference, the scientific program of symposia, workshops and fieldtrips, and listings of the symposia convenors and Keynote Speakers. On-line registration for the conference opened on the website on 16th August, as well as for fieldtrips, social touring, and accommodation.

The call for on-line abstract submission has also now opened, with the deadline for abstract submission being **17th January, 2011**.

The Organising Committee of IUGG2011 looks forward to welcoming the international volcanology and geoscience community to the 2011 IAG and IUGG General Assembly in Melbourne.

RAY CAS
Chair, Joint Australia and New Zealand Organising Committee IUGG2011

IAG Sponsored Meetings

15th General Assembly of WEGENER 2010

September 14-17, 2010, Bogazici University, Istanbul, Turkey

URL: www.koeri.boun.edu.tr/jeodezi/wegener2010/.

IGFS2 – 2009

September 20-22, 2010, Fairbanks, Alaska, USA

The 2nd General Assembly of the IGFS - International Gravity Field Service follows the 1st IGFS symposium in Istanbul, August 2006, and the Symposium on Gravity, Geoid and Earth Observation, held in Chania, Greece, 2008, and is organized under the auspices of the International Association of Geodesy (IAG). The webpage of the symposium is <http://www.gps.alaska.edu/IGFS2/>.

IAG Commission 1 Symposium 2010: Reference Frames for Applications in Geosciences (REFAG2010)

October 4-8, 2010, IGN, France

URL: <http://iag.ign.fr/index.php?id=140>

International Doris Service Workshop 2010

October 21-22, 2010, Lisbon, Portugal

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IAG Related Meetings

ESA International Summer School 2010

September 1-11, 2010, Slettestrand, Denmark

URL: <http://www.munich-satellite-navigation-summer-school.org/>

First International School on “The KTH Approach to Modeling the Geoid”

September 20-24, 2010, Istanbul, Turkey

First International Geoid School on the KTH Approach will take place on September 20-24, 2010, at Yildiz Technical University, Istanbul, Turkey. Detailed information and registration form can be found on the webpage of the conference <http://www.infra.kth.se/geo/events/geoidschool.html>.

7th International Symposium on LBS & TeleCartography

September 20-22, 2010, Guangzhou, China

The 7th International Symposium on LBS & TeleCartography will be held at Spatial Information Research Center (SIRC), in the campus of South China Normal University (SCNU) on 20th - 22nd Sept, 2010, Guangzhou, China. The symposium will bring together experts from around the world to present the latest research results and developments with focus on Location Based Services in the fields of Cartography, Geoinformation, Computer Sciences, Ubiquitous and Pervasive Computing, Telecommunication, Geodesy, and Geomedia Techniques. Official Web Site: <http://www.lbs2010.org/>.

ION GNSS 2010, 23rd International Technical Meeting

September 21-24, 2010, Portland, Oregon, USA

URL: <http://www.ion.org/meetings/gnss2010cfa.cfm>

Intergeo 2010

October 5-7, 2010, Köln, Germany

URL: <http://www.intergeo.de/>

IGCP 565 Workshop 3: Separating Hydrological and Tectonic Signals in Geodetic Observations

October 11-13, 2010, Reno, Nevada, USA

URL: http://www.igcp565.org/workshops/Reno_2010/introduction.php

UN-SPIDER Bonn Workshop

October 12-14, 2010, Bonn, Germany

URL: www.un-spider.org/workshop-bonn-2010

4th Coastal Altimetry Workshop

October 14-15, 2010, Porto, Portugal

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

Eurisy Conference

October 14-15, 2010, Rabat, Morocco

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

OSTST Annual Meeting

October 18-22, 2010, Lisbon, Portugal

URL: <http://www.aviso.oceanobs.com/>

GNSS-R 2010

October 21-22, 2010, Barcelona, Spain

The 2010 Workshop on GNSS Reflectometry (GNSS-R'10) will take place in Barcelona, Spain, during 21-22 October 2010. The primary objective of these GNSS-R workshops is to provide a forum for researchers working on the different aspects and applications of the GNSS Reflectometry where to review recent advances and to identify required improvements.

Please visit <http://congress.cimne.com/gnss-r10/> for more information on this GNSS-R'10 Workshop.

2010 ABLOS Conference

October 25-27, 2010, International Hydrographic Bureau, Monaco

An international conference on "Contentious Issues in UNCLOS - Surely Not?", will be organised by ABLOS, in Monaco, at the International Hydrographic Bureau, on 25-27 October 2010.

URL: <http://www.gmat.unsw.edu.au/ablos/index.html#ABLOS10>

ACM SIGSPATIAL GIS 2010

November 2-5, 2010, San Jose, CA, USA

The 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems provides a forum for original research contributions covering all conceptual, design, and implementation aspects of GIS ranging from applications, user interfaces, and visualization to storage management and indexing issues. This conference is the premier annual event of the ACM Special Interest Group on Spatial Information (ACM SIGSPATIAL). URL: <http://acmgis2010.cs.ucsb.edu/>.

IWGS 2010

November 2, 2010, San Jose, CA, USA

1st International Workshop on GeoStreaming (IWGS2010) is to be held in conjunction with the 18th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL GIS 2010).

URL: <http://infolab.usc.edu/iwgs10/>

5th International Workshop on 3D Geo Information

November 3-4, 2010, Berlin, Germany

URL: <http://www.3dgeoinfo.org/>

Second SIRGAS School on Reference Systems

November 8-10, 2010, Lima, Peru

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

SIRGAS 2010 General Assembly

November 11-12, 2010, Lima, Peru

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

AGU Fall Meeting

December 13-17, 2010, San Francisco, USA

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

17th International Workshop on Laser Ranging

January 17-22, 2011, Concepción, Chile

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

GEOProcessing 2011

February 23-28, 2011 - Gosier, Guadeloupe, France

The Third International Conference on Advanced Geographic Information Systems, Applications, and Services

URL: <http://www.iaria.org/conferences2011/GEOProcessing11.html>

EGU General Assembly 2011

April 3-8, 2011, Vienna, Austria

URL: <http://meetings.copernicus.org/>

JURSE 2011 - Joint Urban Remote Sensing Event (URBAN 2011 + URS 2011)

April 11-13, 2011, Munich, Germany

Contact: jurse2011@bv.tum.de

Third Conference on Earth Observation for Global Changes (EOGC2011)

April 13-15, 2011, Munich, Germany

URL: <http://www.pf.bv.tum.de/eogc2011/>

SPACOMM 2011

April 17-22, 2011, Budapest, Hungary

The Third International Conference on Advances in Satellite and Space Communications

URL: <http://www.iaria.org/conferences2011/SPACOMM11.html>

EUREF 2011 Symposium

May 25-28, 2011, Chisinau, Republic of Moldova

URL: <http://www.euref-iag.net/>

7th International Symposium on Mobile Mapping Technology

June 13-16, 2011, Krakow, Poland

The Symposium MMT' 2011 will be held on 13 – 16 June 2011, in the Sheraton hotel Cracow, Poland. We strongly invite and encourage all professionals, researchers and academics, business and industry partners, students to participate in this important event. Science Chair: Dorota Grejner-Brzezinska.

The MMT2011 web site is up and running: <http://www.mmtcracow2011.pl/>.

TransNav 2011

June 15-17, 2011, Gdynia, Poland

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

IAG Sister Societies' General Assemblies

XXV IUGG General Assembly

June 27 – July 8, 2011, Melbourne, Australia

URL: <http://www.iugg2011.com/>