



**International Association
of Geodesy**

Newsletter

August 2019

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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

General Announcements

IUGG2019: Open Access IAG Symposia proceedings

Dear Colleagues,

From now on, all volumes in the IAG Symposia series will be Open Access, which means that the primary mode of publication will be online (individual papers, and an e-book once all papers are finished). It is possible to get copies of the book printed, although there is an extra cost for this.

What this means for the authors is that the papers will be online and fully Open Access shortly after each paper is accepted, so that they don't have to wait for the entire volume to be completed. All papers will eventually be searchable through the volume once the volume is finalised.

IAG will be paying the Open Access fees for volumes from the IAG Scientific Assemblies and General Assemblies. For other IAG-sponsored meetings, the organisers are expected to collect US \$50 per participant (or equivalent in some currency) registered for the meeting to cover the cost of the volume. In this way, if you are planning any IAG-supported meeting and are interesting on publishing the proceedings, please contact us to provide you with more details.

Now, we are inviting you to submit your contributions presented at the IUGG2019 General Assembly. Because IAG pays the fees, this is a free Open Access paper for the authors. In order to define the number of pages per paper and the list of Associate Editors for the "Montreal Volume", we kindly ask you to answer this e-mail as soon as possible with the title of the manuscript you plan to submit and the ID of the symposium where it was presented (please see list below). Paper submission deadline is September 15, 2019.

The IAG Symposia series is indexed in Web of Science (book by book) and in Scopus (as a series).

Kindest regards,

Jeff Freymueller, Laura Sánchez

- Montreal 2019 - G01 - Reference Systems and Frames
- Montreal 2019 - G02 - Static Gravity Field and Height Systems
- Montreal 2019 - G03 - Time-Variable Gravity Field
- Montreal 2019 - G04 - Earth Rotation and Geodynamics
- Montreal 2019 - G05 - Multi-Signal Positioning, Remote Sensing and Applications
- Montreal 2019 - G06 - Monitoring and Understanding the Dynamic Earth With Geodetic
- Montreal 2019 - JG01 - Interactions of Solid Earth, Ice Sheets And Oceans
- Montreal 2019 - JG02 - Theory and Methods of Potential Fields
- Montreal 2019 - JG03 - Near-Real Time Monitoring of Regional to Global Scale Water Mass Changes
- Montreal 2019 - JG04 - Geodesy for Atmospheric and Hydrospheric Climate Research
- Montreal 2019 - JG05 - Remote Sensing and Modelling of the Atmosphere
- Montreal 2019 - JG06 - Monitoring Sea Level Changes by Satellite and In-Situ Measurements
- Montreal 2019 - JG07 - Monitoring, Imaging and Mapping of Volcanic Belts
- Montreal 2019 - JG08 - Earth Systems Literacy: Geophysics in K-16 Class Rooms, Outreach Projects, and Citizen Science Research Projects
- Montreal 2019 - IAG-related papers from other Joint Symposia

New IAG Inter-Commission Committee on "Geodesy for Climate Research" (ICCC)

During the IUGG General Assembly in Montreal the IAG Executive Committee (EC) established a new IAG Inter-Commission Committee on "Geodesy for Climate Research" (ICCC) to enhance the use of geodetic observations for climate studies. The goal is to establish a systematic and comprehensive approach among the various geodetic communities, but also to establish and foster links to the climate science.

Specific goals of the ICCC are

- to deepen the understanding of the potential (and limitations) of geodetic measurements for the observation, analysis and identification of climate signals

- to advance the development of geodetic observing systems, analysis techniques and data products regarding their sensitivity to and impact on Essential Climate Variables
- to advance the improvement of numerical climate models, climate monitoring systems, and climate reanalysis efforts through incorporating geodetic observations
- to stimulate scientific exchange and collaboration between the geodetic and the climate science communities
- to make geodetic variables more user-friendly by sharing them publicly and explaining their usefulness

The activities of the ICC will primarily be carried out through its thematic working and study groups to be set up at the next IAG EC meeting in December. Furthermore, plans of the ICC comprise the organization of a workshop series to intensify the exchange between different geodetic communities and the climate monitoring and modeling communities, the organization of related sessions at international conferences, and the establishment of links to other climate science related bodies within IUGG and beyond.

Further information can be found on the IAG website: <http://iccc.iag-aig.org>

Would you like to contribute and/or have any ideas or comments? Please contact Annette Eicker (annette.eicker@hcu-hamburg.de).

ANNETTE EICKER

Meeting Announcements

Meetings Calendar

IAG Sponsored Meetings

Workshop for the Implementation of the GGRF in Latin America

September 16 – 20, 2019, Buenos Aires, Argentina

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

Munich Remote Sensing Symposium 2019 (MRSS19)

September 18 – 20, 2019, Munich, Germany

URL: www.pf.bgu.tum.de/isprs/mrss19/index.html

CODATA 2019

September 19 – 20, 2019, Beijing, China

Towards next-generation data-driven science: Policies, practices and platforms

URL: https://conference.codata.org/CODATA_2019/

DORIS Analysis Working Group meeting

September 30 – October 1, 2019, Paris, France

URL: <https://ids-doris.org/ids/reports-mails/meeting-presentations/ids-awg-09-2019.html>

ILRS Analysis Standing Committee (ASC) meeting

October 1, 2019, Paris, France

URL: <https://ilrs.cddis.eosdis.nasa.gov/science/awg/awgActivities/index.html>

5th IAG Symposium on Terrestrial Gravimetry: Static and Mobile Measurements

October 1 – 4, 2019, Saint Petersburg, Russia

URL: <http://www.elektrotribor.spb.ru/tgsmm2019/eindex>

GGOS/IERS Unified Analysis Workshop

October 2 – 4, 2019, Paris, France

URL: <https://www.iers.org/IERS/EN/NewsMeetings/ForthcomingMeetings/forthcoming.html>

Journées 2019: Astrometry, Earth Rotation and Reference

October 7 – 9, 2019, Paris, France

URL: <https://syrtel.obspm.fr/astro/journees2019/>

BIPM Workshop on Advanced Time and Frequency Transfer

October 10, 2019, Sèvres, France

URL: <https://www.bipm.org/en/conference-centre/bipm-workshops/advanced-time/>

2019 ILRS Technical Workshop

October 21 – 25, 2019, Stuttgart, Germany

URL: <http://www.dlr.de/ilrs2019>

GGOS Days 2019

November 11 – 14, 2019, Rio de Janeiro, Brazil

URL: <https://iag.dgfi.tum.de/en/meetings-calendar/>

SIRGAS Symposium 2019

November 11 – 14, 2019, Rio de Janeiro, Brazil

URL: <https://iag.dgfi.tum.de/en/meetings-calendar/>

11th IVS General Meeting

March 22 – 28, 2020, Annapolis, MD, USA

URL: <https://www.iers.org/IERS/EN/NewsMeetings/ForthcomingMeetings/forthcoming.html>

IGS Workshop "IGS 2020: Science from Earth to Space"

August 10 – 14, 2020, Boulder, CO, USA

URL: <https://www.iers.org/IERS/EN/NewsMeetings/ForthcomingMeetings/forthcoming.html>

43rd COSPAR Scientific Assembly

August 15 – 23, 2020, Sydney, Australia

URL: <http://www.cospar2020.org/>

22nd meeting of the Consultative Committee for Time and Frequency (CCTF)

October 26 – 30, 2020, Sèvres, France

URL: <https://www.iers.org/IERS/EN/NewsMeetings/ForthcomingMeetings/forthcoming.html>

IAG Related Meetings

First International School on "Geoid Modelling, Gravity Inversion and its Applications"

September 9-13, 2019, Gävle, Sweden

URL: <https://www.hig.se/4.6c77c68166435adf0b3d060.html>

4th Symposium of the Committee on Space Research (COSPAR)

November 4-8, 2019, Herzliya, Israel

URL: <http://www.cospar2019.org/>

Reports

IAG Participation in the Ninth Session of the United Nations Committee of Experts on Global Geospatial Information Management, United Nations Headquarters, New York, 7 - 9 August 2019

Also this year the meeting of the United Nations Committee of Experts on Global Geospatial Information Management UN-GGIM took place at the United Nations in New York from 7th to 9th August 2019. Besides the delegates of more than 100 UN member states, the IAG participated in "Observer Status". IAG was represented by the IAG Immediate Past President Harald Schuh, supported by the President of the IAG Zuheir Altamimi (as member of the French delegation), the GGOS Chair Richard Gross (as member of the US delegation), the IGS Director Allison Craddock, the IAG Secretary General Markku Poutanen (as member of the Finnish delegation), and the IGS Chair Gary Johnston (also Co-Chair of the UN-GGIM Subcommittee on Geodesy).

The program of the one-week session with its numerous side events can be viewed on the internet at http://ggim.un.org/meetings/GGIM-committee/9th-Session/side_events/calendar.cshtml as well as the various documents of the UN-GGIM session, see <http://ggim.un.org/meetings/GGIM-committee/9th-Session/documents/>.



UN plenary hall

At the main sessions of UN-GGIM, IAG issued two highly regarded interventions with the following wording:

GGIM Agenda Item 5: Integrated Geospatial Information Framework

The International Association of Geodesy applauds the ongoing development of the Integrated Geospatial Information Framework, noting its potential to translate high-level strategic geospatial information concepts into practical implementation guidance. We note the potential for this Framework to develop, strengthen, and modernize national geodetic infrastructure and capacity building, especially in developing Member States.

GGIM Agenda Item 6: Global Geodetic Reference Frame

The International Association of Geodesy commends the work done by the Subcommittee on Geodesy, and emphasizes that its ongoing work is essential to determining a sustainable Global Geodetic Reference Frame.

We note with appreciation the agreement on the adoption of the International Terrestrial Reference System – and its numerical realization, the International Terrestrial Reference Frame – for positioning and navigation applications, and as a reference for monitoring phenomena of global change. We also appreciate the ongoing development of an ISO International Standard for alignment to this Frame.

IAG encourages modernization of geodetic infrastructure, as well as development of Core Observatories, especially in developing regions.

We recognize that capacity building is an essential complement to infrastructural development, and applaud the efforts of the Subcommittee's Working Group on Education, Training, and Capacity Building at the global, regional, and national levels.

Given the essential nature of appropriate coordination and capacity building, IAG encourages continuing the discussion on the creation of a Global Geodetic Centre of Excellence, under the auspices of UN-GGIM.



Harald Schuh delivering the IAG intervention

An important result of the UN-GGIM session on the Global Geodetic Reference Frame (GGRF) is the recommendation to establish a Global Geodetic Center of Excellence "under UN-GGIM auspices", which - in cooperation with IAG, GGOS, the international services of IAG and other international associations - promotes the global expansion of geodetic infrastructure and carries out measures on the subject of "Geodetic education and training", particularly in developing and emerging countries. This was strongly advocated in almost 30 interventions by UN member states.

HARALD SCHUH



Harald Schuh in the UN plenary hall