



IUGG



International Association
of Geodesy

Newsletter

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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

IGAG Scientific Assembly in Beijing on June 28–July 2, 2021, to be held as a hybrid meeting

The IAG Scientific Assembly will be held in Beijing on June 28–July 2, 2021. The Scientific Assembly is a quadrennial event, in the middle of the periods of the IAG General Assembly. Due to the ongoing COVID-19 pandemic, the Assembly will be organized as a hybrid meeting.

The LOC has made a reservation of a number of conference rooms, but due to current situation with travel restrictions, the main way for the foreign scientists to participate will be the virtual meeting. We will make our best to offer the full programme and experience of the Scientific Assembly to everyone, regardless of the way they will participate. The Assembly papers will be published in the renowned peer-reviewed book series, International Association of Geodesy Symposia. All papers will be open access, and publishing will be free of charge.

There will be eight Symposia, with topics covering the activities of IAG Commissions, Services, Inter-Commission Committees and a timely topic on Geohazards.

The official web site of the Assembly, www.iag2021.com, will be available by March with all details and instructions of deadlines, schedule, programme, abstract submission and registration. Please follow also the IAG web site <https://www.iag-aig.org/> for news and latest information. In case of questions, please contact the IAG Secretary General IAG.OFFICE@nls.fi or the LOC, the address of which will be given on the Assembly web site. The first circular with more details will be sent at the time the web site is opened and it will be posted also on the IAG web site.

Further information: Prof. Markku Poutanen
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SIRGAS News

Capacity building within SIRGAS

In July 2021 the SIRGAS Working Group 2 was planning an in-person workshop on GAMIT-GLOBK at the *Escuela de Ingeniería y Topografía, University of Costa Rica*. Unfortunately, due to the COVID19 pandemic, the in-person workshop has been postponed for 2022. We are therefore working with the University of Costa Rica on two possible webinars related to geodetic reference frames that will be announced in the following weeks.

The SIRGAS community has also been working with the National Geographic Institute of the Dominican Republic (IGN) to assess the GNSS geodetic infrastructure of the country. The goal of the assessment is to provide recommendations and training in the following months to consolidate a continuous GNSS network within the country and incorporate these stations to the SIRGAS-CON network. As a long term goal, the IGN plans to implement the SIRGAS-CON reference frame within the Dominican Republic during 2021-2022.

UNGGIM questionnaire on member state's geodetic capacity

The SIRGAS Working Group 2 is working with the UNGGIM Education Training and Capacity Build (ETCB) Working Group to update and implement a questionnaire to understand the current capacity level of the UNGGIM member states. The goal of this questionnaire, which will be distributed in the following months, is to understand the current situation and future prospects of the world geodesy.

ANALYSIS CENTERS

In November 2020, a new experimental center is put into operation at the Military Geographical Institute of Peru with the following characteristics:

Name: Instituto Geográfico Nacional de Perú
Acronym: PER

Software: GAMIT GLOBK 10.71

Process Stations: AACR ABMF ABPW AM04 AMTE AN02 ANDS AP01 AQ01 ARCA AREQ AY02 BECE BEJA BNGA BOGT BRMU CHEP CHET CIQE CJ01 CN19 CN30 COL2 CRLP CRO1 CS01 CULC DARI FQNE GLPS GODE GOL2 GOLD GRE1 GUA HC03 HV01 IC01 ICAM ICEP IDGO INEG IPAZ JU03 LB01 LI01 LIMN LR01 MANA MD01 MDO1 MEDE MERI MEXI MTY2 NAS0 NEIL OAX2 PASM PI01 PIE1 PU02 RDSO RIDC SAGE SCUB SM01 STJO TAMP TC01 TEG2 TOL2 UC01 UCRI UGTO USNO VIL2 VNDP ZARZ

Further, the School of Topography, Cadastre, and Geodesy of the University in Costa Rica is taking the necessary steps to restart its activities as an official SIRGAS processing center.

Finally, approximately 40 stations belonging to NGS and NRCAN were designated to extend the SIRGAS-CON network into North America. We expect to start processing these stations during the first half of 2021. Some of these stations are already being processed within the IGS polyhedron which conform the SIRGAS weekly solution. Additionally, the reprocessing of the 2000-2020 period by IGS RNACC-SIR has been completed.

TRANSFORMATION PARAMETERS

We have completed the calculation of three static transformation grids (in NTV2 format) to transform between the SIRGAS95-SIRGAS2000 and SIR17P01 reference frames. We are also working on the generation of a deformation model to transform between SIRGAS' solutions. This model is expected to be completed by the end of 2021.

SCIENTIFIC PROJECT - Contributions of high-resolution gravity models in South America

The SIRGAS Working Group 3 is involved with the Technical University of Munich, in Germany, in a scientific project entitled "Contributions of high-resolution gravity models in South America". The project has two objectives: to evaluate the geoid models and GNSS/leveling stations available in South America using high-resolution gravity field models and to combine satellite and ground data to contribute to the computation of the potential at the IHRF (International Height Reference Frame) stations. It is expected that the results obtained will contribute to the study of the unified height system in South America. The project period is July 2020 to October 2021.

SONIA COSTA

Global Surveyors' Day

The first Global Surveyors' Day as an initiative of the the CLGE (the Council of European Surveyors) and the NSPS (National Society of Professional Surveyors of the US) with the endorsement of FIG (International Federation of Surveyors) was celebrated on March 21, 2018. This year it is going to be held on March, 23. This time the Surveyor of the Year is Carl Friedrich Gauss, the German Mathematician, Astronomer, Physician, Surveyor and Geodesist.

More information is available on the CLGE homepage at <https://clge.eu> and on the website of the Global Surveyors' Day at <http://surveyorsday.com> .

SZABOLCS RÓZSA

Meeting Announcements

Meetings Calendar

IAG Sponsored Meetings

1. ICCG Workshop

March 29 - 31, 2021, Germany - online

URL: <https://iccc.iag-aig.org/iccc-workshops/ws21>

EUREF 2021 Symposium

May 26 –28, 2021, Ljubljana, Slovenia

URL: <https://euref2020.si/>

19th International Symposium on Geodynamics and Earth Tides (G-ET Symposium 2020)

June 22 –26, 2021, Wuhan, China

URL: <http://get2020.csp.escience.cn/>

IAG Scientific Assembly

June 28 – July 2, 2021, Beijing, China

URL: <http://www.iugg.org/meetings/assemblies.php>

The 6th Satellite Soil Moisture Validation and Application Workshop

September 14 – 16, 2021, Perugia, Italy

URL: <http://venti-eventi.com/>

IGS Workshop "IGS 2021: Science from Earth to Space"

September 27 – October 1, 2021, Boulder, CO, USA

URL: <https://www.igscb.org/workshop2021/>

20th Assembly of Wegener

October 25 – 29, 2022, Marrakech, Morocco

URL: <https://wegener2021.sciencesconf.org/>

2nd International Symposium of Commission 4: Positioning and Applications

September 5 – September 9, 2022, Potsdam, Germany

URL: <https://www.iag-commission4-symposium2022.net/>

IAG Related Meetings

AOGS Annual 18th Meeting

August 1-6, 2021, Singapore

URL: http://www.asiaoceania.org/society/public.asp?view=up_coming