



IUGG



**International Association
of Geodesy**

Newsletter

June 2020

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Contents

Meeting Announcements	3
Meetings Calendar	3
IAG Sponsored Meetings	3
IGS Workshop "IGS 2020: Science from Earth to Space"	Error! Bookmark not defined.
43rd COSPAR Scientific Assembly.....	3
2nd International Symposium of Commission 4: Positioning and Applications	3
International Workshop on GNSS Ionosphere (IWGI2020).....	3
International DORIS Service Workshop.....	3
22nd International Workshop on Laser Ranging	3
EUREF 2021 Symposium.....	3
19th International Symposium on Geodynamics and Earth Tides (G-ET Symposium 2020)	3
IAG Scientific Assembly.....	3
IAG Related Meetings	3
AOGS2020 17th Annual Meeting.....	4
International Autumn School "NEROGRAV"	Error! Bookmark not defined.
International Symposium on Satellite Navigation (ISSN 2020)	3
22nd meeting of the Consultative Committee for Time and Frequency (CCTF).....	4
Reports	4
Report on the Symposium SIRGAS2019.....	4

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

Meeting Announcements

Meetings Calendar

IAG Sponsored Meetings

2nd International Symposium of Commission 4: Positioning and Applications

September 7 –11, 2020, Potsdam, Germany

URL: <https://www.iag-aig.org/events/17>

International Autumn School "NEROGRAV", October 5-9, 2020, BAd Neuenahr, Germany,

October 5-9, 2020, Bad Neuenahr, Germany

URL: <https://www.lrg.tum.de/iapg/nerograv/autumn-school/>

International Workshop on GNSS Ionosphere (IWGI2020)

October 19 –21, 2020, Shanghai, China

URL: <http://202.127.29.4/geodesy/iwgi2020/index.html>

International DORIS Service Workshop

October 19 –21, 2020, Virtual Symposium

URL: <http://ostst-altimetry-2020.com/home/>

22nd International Workshop on Laser Ranging

November 2 – 6, 2020, Kunming, China

URL: <http://22ndilrs2020.csp.escience.cn/dct/page/1>

43rd COSPAR Scientific Assembly

January 28 –February 4, 2021, Sydney, Australia

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

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 3, 2021, Beijing, China

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

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

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

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

IAG Related Meetings

International Symposium on Satellite Navigation (ISSN 2020)

October 21 – 24, 2020, Nanjing, China

URL: <http://issn2020.csp.escience.cn/dct/page/1>

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>

AOGS2021 18th Annual Meeting

August 1 – 6, 2021, Singapore

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

Reports

Report on the Symposium SIRGAS2019

The current activities, advances, and new challenges of SIRGAS are reported, discussed, and evaluated in the annual SIRGAS Symposia, which have been held since 1993. This year, thanks to the kind invitation extended by the Brazilian Institute of Geography and Statistics (IBGE) and the Rio de Janeiro State University (UERJ), the SIRGAS 2019 Symposium was held in Rio de Janeiro, Brazil, between November 11 to 14, 2019. It was organized with the support of the International Association of Geodesy (IAG) and the Pan-American Institute for Geography and History (PAIGH). In the frame of this Symposium, two additional activities were programmed:

- 1) “GGOS Days 2019” (Global Geodetic Observing System) was held simultaneously in the same venue (Fig. 1) and a joint session between the SIRGAS community and GGOS expert representatives was developed on November 12 (Fig. 1) and;
- 2) The 2nd SLR (Satellite Laser Ranging) Workshop in Latin America took place from November 6 to 8, 2019. The main objective was to continue the integration between SIRGAS community (professionals and scientists) with the group of SLR experts. This effort was the continuation of actions initiated during the 1st SLR SIRGAS workshop held in 2017 in Mendoza, Argentina; which aim was the promotion of the specialization in the SLR technique, as well as data processing and its combination with GNSS (Global Navigation Satellite System) in the Latin American and international geodetic community context.



Fig. 1. GGOS Days attendees 2019



Fig. 2. Participants of the SIRGAS Symposium 2019, IBGE, Rio de Janeiro, Brazil, November 11 to 14, 2019

The SIRGAS Symposium 2019 was attended by 164 participants (Fig. 2) from 16 countries (Argentina, Austria, Bolivia, Brazil, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, Germany, Mexico, Panama, Spain, United States, Uruguay and Venezuela). The main topics addressed during the symposium included SLR in Latin America, colocation techniques (4 presentations); Studies of the Atmosphere and analysis of the Earth System based on SIRGAS Infrastructure (18 presentations); SIRGAS-GGOS Session (18 presentations); the improvement and maintenance of the SIRGAS reference frame (12 presentations); practical applications aimed at the adoption of SIRGAS at the sub-regional and national level and Infrastructure SIRGAS in Real Time (12 presentations); advances in SIRGAS Unified Vertical Reference System (9 presentations); gravity and geoid (12 presentations); and general reports (4 presentations). In total, 75 oral contributions and 18 posters were presented.

During the meeting of Directing Council held on November 13, the results of the elections for president and vice president were reported, who formally assumed at the closing ceremony of the Symposium (Fig.3). Other issues discussed during this meeting will be available on the SIRGAS webpage, section “SIRGAS: Resolutions”.



Fig. 3. New Executive Committee: Sonia Costa from IBGE (Instituto Brasileiro de Geografia e Estatística), Brazil (president) and Diego Piñón from IGN (Instituto Geográfico Nacional), Argentina (vice president)

Report on the SIRGAS SLR Workshop 2019

The 2nd SLR Workshop in Latin America was attended by 25 participants (Fig. 4) from 8 countries (Argentina, Brazil, Colombia, Costa Rica, Ecuador, Perú, Uruguay and Venezuela). It was organized as an activity of the SIRGAS Working Group I. On this occasion, the instructor was Dr. Daniela Thaller from the BKG, Germany (Fig.5). The SIRGAS Executive Committee thanks the BKG for the possibility of Dr Daniela Thaller qualifying SIRGAS community in the SLR data processing and analysis.



Fig. 4. Participants of the 2nd SIRGAS SLR Workshop, IBGE, Rio de Janeiro, Brazil, November 6 to 8, 2019



Fig. 5. Dr. Daniela Thaller teaching SLR data processing with Bernese software.

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