

Minutes

of the

Annual SNC-IUGG Committee Meeting

23 November 2019, 12:30 – 13:30

University of Fribourg, Site Pérolles, room B205

Committee members present

Prof. Dr Jan Seibert,	President, IAHS
Dr Charles Fierz,	Secretary and treasurer, IACS
IACS	Dr Andreas Bauder
IAG	Dr Elmar Brockmann
IAMAS	Dr Christopher Hoyle
IAVCEI	Prof. Dr Peter Ulmer

Committee members absent with regrets

IAGA	Prof. Dr Alexey Kuvshinov
IAPSEI	Dr John Clinton
IPA	Dr Marcia Phillips

Guest

Prof. Dr Luca Caricchi (IAVCEI nominee)

President J. Seibert opens the meeting and welcomes the committee members present as well as Prof. Dr L. Caricchi, nominee as IAVCEI representative, and notes that the quorum required by our bylaws is attained. Dr J. Clinton, Prof. Dr Alexey Kuvshinov, and Dr M. Phillips excused themselves for various reasons.

1 Acceptance of the agenda

No additions or amendments are requested by the members present.

2 Approval of the minutes of the 2018 meeting in Zürich

The minutes are accepted as is with thanks to SNC-IUGG secretary C. Fierz.

President: Prof. Dr Jan Seibert, UZH Zurich

Secretary: Dr Charles Fierz

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3 Nominations of new committee members for approval by PF Geosciences

President J. Seibert thanks the outgoing members P. Ulmer, C. Hoyle, and M. Phillips for their work and support of the NC-IUGG.

Prof. Dr Luca Caricchi (IAVCEI), Dr Zamin Kanji (IAMAS), and Dr Jeannette Nötzli (IPA) are nominated in *globo* by the members present to be elected as correspondents for their respective Associations. Secretary C. Fierz to convey this decision to PF Geosciences. P. Ulmer announces that the Geotechnical Commission has been disbanded. However, there are ideas to found a new Commission for Petrology and Volcanology within SCNAT. P. Ulmer and L. Caricchi will follow up. This would then be the perfect supporting body for IAVCEI.

C. Fierz is elected until 2021-12-31 and will step down by then. A. Bauder will start taking over IACS matters step by step. In addition, it would be wise to think of a successor for the position as Secretary of the NC-IUGG committee, best to be elected at next year's meeting to allow for a 'backup' by C. Fierz in 2021.

4 Treasurer's report

The treasurer tables his report for 2018. The report displays an income of **CHF 7 400.00** and an expenditure of **CHF 1 320.00**. The bank account balance on 31 December 2018 amounted to **CHF 6 023.40**. The report is accepted unanimously by the members present.

The treasurer notes that CHF 2 400.00 for travel support to IAG and IPA in 2018 were not paid before early 2019. After returning a surplus of CHF 400 to SCNAT, the committee could use a 2018 left-over of CHF 3 200.00 to increase the travel support for attending the IUGG GA in 2019.

5 Budget 2020

2020

IACS, IAG, IAGA, IAMAS and IASPEI requested each CHF 1 000.00 as travel support to attend IUGG related meetings in 2020; in addition, CHF 1 000.00 were requested to support the Union Lecturer at SGM 2020 (see also [Agenda Item 7](#)). The 2020 budget is pending acceptance first by the PF Geoscience and then by the Executive Council of SCNAT.

Note: Full request (CHF 6 000.-) approved by SCNAT as of 12 December 2019.

6 IUGG General Assembly 2019

6.1 Reports from the members

- In his annual report, E. Brockmann provides a nice wrap up of the General Assembly (see Annex 1). Elmar attended all 3 Council meetings as Swiss Council Delegate, and consequently the full 9 days of the IUGG General Assembly.
- C. Fierz is chair of the IUGG Statutes and By-Laws (S&BL) Committee. New Statutes, that is a reformatting of the existing ones, should have been presented to the IUGG Council in Montréal. However, the S&BL Committee found that the text proposed was not ready yet and a major re-write was necessary before submitting it to the IUGG Council. It is planned to send the revised version early 2020.
- The members present all agreed that the scientific part of the IUGG GA is too long (currently 9 days); C. Fierz to connect with IACS Bureau first and then draft a letter to the IUGG Bureau on this regard.

6.2 Geneva Bid

- New ideas like live streaming of sessions and participation in scientific content (overarching theme) were not well received; the Geneva LOC should have made them

known to the IUGG Council Delegates and the Site Comparison Committee in advance of the General Assembly.

Nevertheless, L. Caricchi is interested to bid with Italian, French and German colleagues for an IAVCEI Scientific Assembly 2025 in Geneva.

7 Union Lecture

The Union Lecturer 2019 is Bernard Haszeldine, Edinburgh, UK, sponsored as usual by both NC-IUGG and NC-IUGS. The title of his keynote is, "CO₂ geological storage for climate protection: the age of injection".

C. Fierz asks the members present whether NC-IUGG should continue to support the Union Lecture. P. Ulmer notes that he already looked for an IUGG-related 'star'-lecturer for SGM 2020. This worked because Peter is part of the SGM 2020 organization committee. The members present suggest that we contact Pierre Dèzes to ask to be informed at an early stage of the SGM Theme such that NC-IUGG can actively participate in the search for lecturers.

8 Communications

Short reports about additional activities or issues in 2019

IACS (by A. Bauder)

- The agreement between BAFU/MeteoCH/SCNAT and VAW regarding Glacier Monitoring in Switzerland (GLAMOS) was prolonged for 4 years in 2019;
- The Swiss snow, ice and permafrost society (SIP) organises excursions, supports Early Career Scientist to attend scientific events, for example the IUGG GA.

IAG (by E. Brockman, see Annex 1 for further info)

- *ETHZ and 4 organisations including swisstopo want to improve their collaboration;*
- *SCNAT is mandated to provide SERI with a road map for Large Infrastructures in Geosciences.*

IAGA (by A. Kuvshinov)

- Conferences, which scientists from ETH Zurich attended:
 - AGU Fall Meeting, New Orleans, USA, December, 2018
 - EGU General Assembly, Vienna, Austria, April, 2019
 - IUGG General Assembly, Montréal, Canada, July, 2019
 - European Space Weather Week, Liège, Belgium, November, 2019
 - Swarm Data Quality Workshop, Prague, Czech Republic, September, 2019;
- Activity on geomagnetic observatories supported by ETH Zurich:
Installation of new fluxgate magnetometer at ETH geomagnetic observatory, Gan, Maldives, Indian Ocean, March 2019;
- Magnetotelluric (MT) studies led by scientists from ETH Zurich:
Reconnaissance trip to Mongolia (August 2019);
- ESA-related activities led by scientists from ETH Zurich:
Work on ESA/DISC/ETH project "Studying mantle electrical conductivity with Swarm satellite data" (2018-2020);
- Activities led by scientists from ETH Zurich on analysis of magnetic data from NASA Martian Insight mission:

- ETH grant "Probing Martian mantle with satellite and ground-based magnetic field data" (2019-2022);
- Preparation and submission of ERC Starting Grant: "EMTERRA: unravelling mantle conductivity from space and ground" (PI: Alexander Grayver; ETHZ).

IAHS (by J. Seibert)

- The IAHS Tyson award went to two young scientists working in Switzerland (see [here](#));

IAMAS (by C. Hoyle)

- None.

IAPSO

No correspondent.

IASPEI (by J. Clinton)

- None

IAVCEI (by P. Ulmer)

- None

IPA (by M. Phillips)

- The PERMOS agreement between BAFU/MeteoCH/ScNat and 6 Partner institutions was prolonged for 4 years in 2019;
- PERMOS has two new observation elements: meteo and permanent GPS (to complement the borehole temperature measurements and the yearly kinematic monitoring);
- PERMOS will be represented at SouthCOP (8-11 December 2019, Queenstown, NZ) by Cécile Pellet (PERMOS Office Fribourg);
- The IPA rock glacier working group founded in 2018 held a first very successful workshop in Evolène, VS, in September 2019, with international participation;
- I have decided to withdraw from the IUGG-CH committee and would like to nominate Jeannette Nötzli (Head of PERMOS Office; member of EKK and of GTN-P Steering committee) as my replacement. Thanks to all of you for the fruitful collaboration, to Charles for all his hard work and to the SED for constantly keeping us in the loop about rock fall events in the mountains (please continue to do so!).

9 Varia

The members present agree to come up for C. Hoyle's expenses to attend the annual meeting.

10 Next Meeting of the committee

The SGM 2020 will take place 6-7 November 2020 in Zürich. We will meet on 6 November 2020 in Zurich prior to the Plenaries, ETH-Zentrum (NO), 11-12 hours, room to be announced (booking by P. Ulmer).

2019-11-03 / C. Fierz



IUGG 2019 (International Union of Geodesy and Geophysics)

Montreal, 8.-18.Juli 2019

Ca. 4500 Teilnehmer aus mehr als 100 Ländern

Stand im Zeichen von 100 Jahren IUGG. Deshalb viele allgemeine Vorträge mit geschichtlichem Hintergrund der einzelnen Mitglieder-Organisationen.

Darunter: 100 Jahre IAG von Hermann Drewes. Buch der IUGG zum 100Jahr-Jubiläum ist in Zirkulation.

Web: <http://iugg2019montreal.com/>

Eine sehr gute App stand bereit, um für sich sein Konferenzprogramm zusammenstellen zu können.

Resolutionen:

IAG (International Association of Geodesy)

1. ITRF als Standard Terrestrial Reference Frame für Positioning, Navigation und Erdwissenschaften. ITRF als Grundlage für nationale und regionale Bezugsrahmen
2. ICRF Version 3 als Standard für den Celestial reference Frame für alle geodätischen und astrometrischen Anwendungen. Höchstmögliche Konsistenz zwischen ICRF, ITRF und den Erdrotationsparametern muss angestrebt werden.
3. Einführung des Welthöhensystems IHRF. Installation von Referenzstation in allen Ländern wird angestrebt. Nötige Gravimetriemessungen sollen durchgeführt werden. Open Access für alle Höhen- und Schweredaten wird angestrebt.
4. Einrichtung von Stationen für das globale gravimetrische Referenzsystem IGRF auf nationaler Ebene und wiederholte Absolutmessungen durchführen. Teilnahme an den internationalen Vergleichskampagnen. Daten und Resultate Open Access.
5. Verbesserung der Theorie und der Modelle der Erdrotation.

IUGG:

1. Reduktion des CO₂-Fussabdrucks durch die Forschungsgemeinschaft. IUGG soll einen aktiven Beitrag zur Reduktion des CO₂-Ausstosses leisten.
2. ITRF: (identisch zu IAG-Resolution Nr. 1)
3. Die übliche Danksagung an die Organisatoren

Wahl nächste Austragungsorte:

IAG 2021: Peking

IUGG 2023: Berlin (Genf war als Kandidat unterlegen, ebenso Athen und Mexiko, zurückgezogen hatte sich die Türkei)

6 Geodäsie-Symposien

1. Reference Systems and Frames
2. Static Gravity Field and Height Systems
3. Time-Variabile Gravity Field
4. Earth Rotation and Geodynamics
5. Multi-Signal Positioning, Remote Sensing and Applications
6. Monitoring and Understanding the Dynamic Earth with Geodetic Observations (GGOS)

Einige gemeinsame Symposien mit anderen Assoziationen unter Führung der IAG:

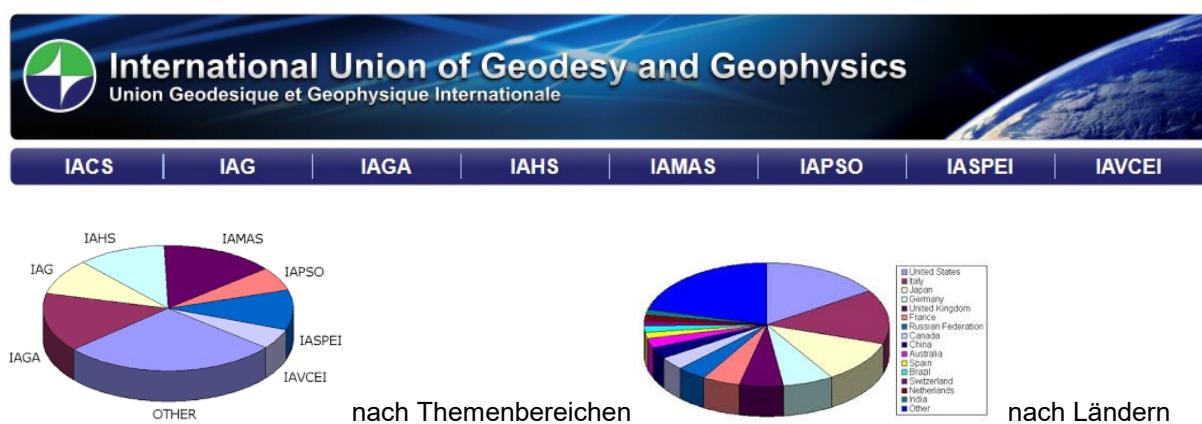
- Interaktion Erde, Eis, Ozeane
- Near-Real-Time Monitoring von Änderung von Wassermassen regional und global
- Atmosphärische und hydrosphärische Klimaforschung
- Remote Sensing und Modellierung der Atmosphäre
- Monitoring von Meeresspiegelveränderungen
- Monitoring und Kartierung von Vulkangürteln

Erfreulicherweise waren 25% aller Sessionen mit anderen Fachbereichen kombiniert. Das Programm der IAG war dasjenige, welches sich über den gesamten Konferenzzeitraum von 9 Tagen erstreckt hat. Auch gab es 3 Sessionen, an denen keine weiteren parallelen Sessionen stattfanden, sodass die jeweiligen Fachbereiche ihre Themen einem breiteren Publikum vorstellen konnten. Ein weiteres Highlight waren «young researcher talks», die ebenfalls sehr engagiert an ein breites Publikum gerichtet waren.

Eine Union Lecture wurde gehalten von David Grimes (Präsident WMO). Eine andere Union Lecture «Geodesy sharpens you up» von Kosuke Heki.

Gold Medal Lecture gab Prof. Peltier über seine bekannten Eisauflastmodelle und Eiszeitklimaentwicklungen.

Eine Ehrenmitgliedschaft wurde Prinz Albert II von Monaco vergeben, auch im Andenken an seinen Ur-Ur-Grossvater Albert I, der ein Pionier der Ozeanografie war und 1906 von Spitzbergen die auf einer von 4 Expeditionen die Arktis erforschte.



E. Brockmann war dieses Jahr schweizerischer Vertreter bei der IAG und auch Vertreter für die IUGG (Vertretung aller Fachrichtungen). Damit verbunden waren 6 Business Meetings von 2-4 Stunden Dauer.



Auf IUGG Level wurden neue Personen gewählt.

President: Kathryn WHALER (UK)

President-Elect: Chris RIZOS (AUSTRALIA)

Secretary General: Alexander RUDLOFF (GERMANY)

Treasurer: Niels Andersen (DENMARK)

Bureau Members: Stephen McNUTT (USA), Eduard PETROVSKY (CZECH REPUBLIC), Jun XIA (CHINA)

IAG Auszeichnungen: C. Reigber (Germany) Levallois Medal, Michal Šprlák (Slovakia, Czech Republic, Australia) Guy Bomford Prize, Minghui Xu (China) und Athina Peidou (Greece, Canada) als Young Author Award 2017 und 2018.

Auf IUGG-Level gab es ebenfalls einige Auszeichnungen, die hier zu finden sind:

<http://www.iugg.org/publications/ejournals/IUGGej1907.pdf>

Die IAG ist ebenfalls mit neuen verantwortlichen Personen für die nächsten 4 Jahre unterwegs:

President	Zuheir Altamimi (France)
Vice President	Richard Gross (USA)
Commission 1	Christopher Kotsakis (Greece)
Commission 2	Adrian Jäggi (Switzerland)
Commission 3	Janusz Bogusz (Poland)
Commission 4	Allison Kealy (Australia)
Service Representative 1	Johannes Böhm (IVS)
Service Representative 2	Tom Herring (IERS)
Service Representative 3	Toshimichi Otsubo (ILRS)
Secretary General	Markku Poutanen (Finland)
President Communications & Outreach Branch	Szabolcs Rózsa (Hungary)

Die National Reports der IAG sind übrigens zu finden unter: <https://iag.dgfi.tum.de/en/iag-national-reports/>. So auch die schweizerischen 4-Jahresberichte:

National Reports 2019

- Brazil [\[PDF\]](#)
- China [\[PDF\]](#)
- Greece [\[PDF\]](#)
- Korea [\[PDF\]](#)
- Poland [\[PDF\]](#)
- Romania [\[PDF\]](#)
- Slovakia [\[PDF\]](#)
- Spain [\[PDF\]](#)
- Switzerland [\[PDF\]](#)
- United Kingdom [\[PDF\]](#)

Switzerland [1999 \[PDF\]](#) [2003 \[PDF\]](#) [2007 \[PDF\]](#) [2011 \[PDF\]](#) [2015 \[PDF\]](#) [2019 \[PDF\]](#)

Urs Marti hat an folgenden Sitzungen teilgenommen:

IAG Sub-Commission 2.1: Gravimetry and Gravity Networks

Working Group on the Establishment of EGM2020 (globales Schwerefeldmodell)

IGFS Advisory Board (International Gravity Field Service)

IAG Commission 2 (Gravity Field)

Working Group on the Establishment of the IHRF (International Height Reference Frame)

Working Group on Essential Geodetic Variables

GGOS Bureau of Products and Standards

GGOS Bureau of Networks and Observations

Urs Marti + Elmar Brockmann, 27.8.2019

IAGA related activity:

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From: fierz fierz@slf.ch
Subject: Fwd: DocumentsAnnual Meeting NC-IUGG at SGM 2019
Date: 23 November 2019 at 12:20
To:

F

Begin forwarded message:

From: phillips@slf.ch
Subject: Re: DocumentsAnnual Meeting NC-IUGG at SGM 2019
Date: 21 November 2019 at 10:59:01 CET
To: "fierz" <fierz@slf.ch>
Cc: jeannette.noetzli@slf.ch

Salut Charles,

could you please excuse me from tomorrow's meeting? I hope you'll understand that I can't yet travel very far and apologize in advance.

Here is some information for the meeting - regarding mountain permafrost:

- The PERMOS agreement between BAFU/MeteoCH/ScNat and 6 Partner institutions was prolonged for 4 years in 2019
- PERMOS has two new observation elements: meteo and permanent GPS (to complement the borehole temperature measurements and the yearly kinematic monitoring)
- PERMOS will be represented at SouthCOP (8-11 December 2019, Queenstown NZ) by Cécile Pellet (PERMOS Office Fribourg).
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- I have decided to withdraw from the IUGG-CH committee and would like to nominate Jeannette Nötzli (Head of PERMOS Office; member of EKK and of GTN-P Steering committee) as my replacement. Thanks to all of you for the fruitful collaboration, to Charles for all his hard work and to the SED for constantly keeping us in the loop about rock fall events in the mountains (please continue to do so)!

Have a good meeting and all the best
Marcia