

Business Meeting IAGA Division V

Mon, July 15th 2019 - 12:00-13:30 [MCC - Floor 5 @512BF]

at 27th IUGG General Assembly, Montreal, Quebec

Report by A. Chambodut and K. Arora

Agenda

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At 12:00, Welcome to the participants by Division V. Chair and co-Chair.

1. Acceptance of the agenda

Agenda was unanimously approved.

2. Report from Chair and Co-Chair

Report by A. Chambodut and K. Arora

The Division V Chair and Co-Chair do not have an important report to transmit except for the usual work of coordination, reminders and relaying information.

Main part of activities is spread in Working Groups and will be presented in the following.

3. Report from WG V-MOD

Business Meeting WG V-MOD (Fri, July 12th 2019)

Report by E. Thébault & P. Alken

- IGRF-13 plans
 - Plenty of scientific quality data available from Swarm and ground observatories
 - Lower quality space-based data available from numerous satellite missions (Cryosat, DMSP, e-POP, GOCE, etc)
 - 11 institutions involved in IGRF task force
 - 12 institutions plan to submit IGRF candidate models
- IGRF model uncertainties
 - Working group agreed that estimates of IGRF uncertainties (either on the model coefficients or global error maps) are of great importance to community
 - Working group plans to determine the best way forward on this issue in the coming years

- Elections
 - P. Alken elected to V-MOD working group Chair
 - C. Beggan elected to V-MOD working group co-Chair (will oversee IGRF-14)
- EPS Special Award
 - IGRF-12 paper has been awarded an **EPS Special Award** for “*its outstanding contribution to scientific research*”

International Geomagnetic Reference Field: the 12th generation,

Erwan Thébault, Christopher C Finlay, Ciarán D Beggan, Patrick Alken, Julien Aubert, Olivier Barrois, Francois Bertrand, Tatiana Bondar, Axel Boness, Laura Brocco, Elisabeth Canet, Aude Chambodut, Arnaud Chulliat, Pierdavide Coisson, François Civet, Aimin Du, Alexandre Fournier, Isabelle Fratter, Nicolas Gillet, Brian Hamilton, Mohamed Hamoudi, Gauthier Hulot, Thomas Jager, Monika Korte, Weijia Kuang, Xavier Lalanne, Benoit Langlais, Jean-Michel Léger, Vincent Lesur, Frank J Lowes, Susan Macmillan, Mioara Manda, Chandrasekharan Manoj, Stefan Maus, Nils Olsen, Valeriy Petrov, Victoria Ridley, Martin Rother, Terence J Sabaka, Diana Saturnino, Reyko Schachtschneider, Olivier Sirol, Andrew Tangborn, Alan Thomson, Lars Tøffner-Clausen, Pierre Vigneron, Ingo Wardinski and Tatiana Zvereva, Earth, Planets and Space (2015) 67:79, <https://doi.org/10.1186/s40623-015-0228-9>.

One question regarding discrepancies of timings between IGRF new generation (every 5 years) and WG Chair/co-Chair renewal.

4. Report from WG V-OBS

Business Meeting WG V-OBS (Sat, July 13th 2019)

Report by A. Chulliat & J. Matzka

Observatory Workshops

- XVIIIth Observatory Workshop successfully held in Conrad Observatory in June 2018
 - Report on the workshop presented by Roman Leonhardt
- XIXth Observatory Workshop to be held in Kazan, Russia, in July 2020
 - Status report presented by Anatoly Soloviev
- XXth Observatory Workshop (and Summer School) to be held in Vassouras/Tatuoca, Brazil, in September 2022
 - Proposal submitted by Katia Pinheiro (Observatório Nacional, Rio de Janeiro, Brazil), presented by Gabriel Soares
 - WG voted to accept the proposal

Other Business

- Table of observatories and IAGA codes (<https://www.bgs.ac.uk/iaga/vobs/>)
 - 5 new observatories since 2017
 - K=9 lower limits (from ISGI) to be added to observatory metadata in IAGA table
- Status of USGS observatories
- New WG leadership
 - Jürgen Matzka elected Chair
 - Katia Pinheiro elected Co-Chair

No question.

5. Report from WG V-DAT

Business Meeting WG V-DAT (Sun., July 14th 2019)

Report by M. Nosé & E. Clarke

Status of the IAGA indices

- Status of the IAGA-endorsed indices are reported:
 - aa, CK days, am
 - PCN, PCS

- Kp, Q/D days
- Dst, AE
- SC, SFE
- All indices are in good shape. (vigilance on PC operational aspects by WG V-DAT)
- Creative Commons license and DOI are introduced to some indices.

Election of new officers

- Chair: Ellen Clarke (British Geological Survey, United Kingdom)
- Co-Chair: Anna Willer (DTU, Denmark)

Data DOI Task Force

- TF made a survey about present status of data publication and data citation of geomagnetic data/indices.
- Survey results are compiled in a report that is available from the V-DAT homepage.

Resolution

- “Importance of the Rapid Magnetic Variation Service and the lists of Sudden Commencements and Solar Flare Effects” (see [Resolution proposal from Division V](#))

No question.

6. Resolution proposal from Division V

Business Meeting WG V-DAT (Sun., July 14th 2019)

Report by M. Nosé & E. Clarke

Resolution proposal:

Importance of the Rapid Magnetic Variation Service and the lists of Sudden Commencements and Solar Flare Effects

IAGA,

recognizing the outstanding importance of sudden commencements (SC) and solar flare effects (SFE) for geomagnetic, ionospheric, space weather, and space climate research,

and noting that, in accordance with IAGA Resolutions no 6 at the XVI IUGG General Assembly (1975), and no 8 at the 8th IAGA Scientific Assembly (1997), the institute of “Ebro Observatory” is responsible for the collection and preparation of SC and SFE lists as part of its Rapid Magnetic Variation Service,

expresses deep appreciation for the work performed by Ebro Observatory, **and recommends** that every possible effort be made to continue the production of SC and SFE lists for the Rapid Magnetic Variation Service.

Vote: Approved unanimously

7. Session proposals from Division V

- Exploring Earth’s magnetic field from space (**V-MOD**, Div. 1, Div. 2, Div. 3)
 - G. Hulot, C. Beggan, *somebody from China*
- Lithospheric field modelling and tectonic implications (**V-MOD**, IASPEI)
 - J. Dymant, IASPEI Convener, V. Lesur, IASPEI Convener
- Planetary magnetic fields and geomagnetic secular variation (**V-MOD**, **V-OBS**, Div.1, IUGG-SEDI)

- W. Brown, I. Wardinski, C. Finlay
- Current developments of Geomagnetic observatories and integration of ground and space-based measurements (**V-OBS**)
 - A. Morschhauser, K. Arora,
- Geomagnetic observations for space science, space weather and space climate applications (**V-OBS, V-DAT**, Div. 4 and ICSW)
 - P. Coisson, M. Torta, E. Clarke
- Remarkable geomagnetic events and indices: Derivation, history, and applications for space weather (**V-DAT, V-OBS**, Div. 4, ICH, ICSW)
 - J. J. Curto, A. Willer, H. Toh
- Geoscience data FAIR: life cycle inside repository: Licensing, data publication, and data citation (**V-DAT**, IASPEI, IUGG-UCDI)
 - S. Flower, M. Nosé

Sessions will be rearranged together with IASPEI. Div V new Chair and co-Chair should be vigilant in defending the proposed sessions and topics.

8. Election of new chair and co-chair

Candidate for Chair:

Masahito Nosé (Nagoya University, Japan)

Candidate for co-Chair:

Roman Leonhardt (ZAMG, Austria)

9. Any other business

No any other business.

At 12:45 p.m. the meeting was over and adjourned.

The Chair and Co-Chair thanked the participants and congratulated once again the new IAGA officers from Division V and the 3 Working Groups.