

Open Bureau Meeting (BM10-A, first session)

Thursday 10 July 2014, National Institute of Polar Research (NIPR), Tokyo, Japan

Minutes

Bureau members present: Charles Fierz (President; CF), Ian Allison (Immediate Past President; IA), Hiroyuki Enomoto (Head of Division III, HE), Olga Solomina (Vice President; OS), Ralf Greve (Head of Division V, RG).

Attending via videoconference: Andrew Mackintosh (Secretary General, AM), Xiao Cunde (Vice President, XC), Cecilie Rolstad-Denby (Head of Division II, CRD)

Apologies: Valérie Masson-Delmotte (Head of Division IV, VMD), Ethan Greene (Head of Division I, EG), Andrés Rivera (Vice President, AR).

Items covered:

1. Welcome and Opening Remarks:

HE, our host in Tokyo, and CF, IACS President, officially opened the meeting and welcomed attendees.

2. Additions:

The IUGG Union Commission Climatic and Environmental Change (UCCEC) was not listed in the agenda, but it will be discussed briefly during this meeting (within Item 4.3, see appBM10A-2)

3. Minutes of Davos IACS Bureau Meeting - BM09:

The minutes were accepted by BM attendees via email and are posted on the IACS website.

3.1. Archiving Bureau documents

The IUGG Secretariat is developing an Electronic Library to archive, present, and publish IUGG-related documents in one single platform. The value of these documents lies in their exclusivity - documents cannot be considered if they have already been officially published. We agree that IACS documents should be stored in this archive.

ACTIONS: - AM to contact the IUGG Secretariat (Franz Kuglitsch) to discuss how to proceed.
- CF to contact NSIDC to explain new situation and discuss options for existing hard copy archive at NSIDC.

3.2. Open action items from BM09:

a. Action items list for the bureau. CF started to prepare a Google document with a list of open points since BM09 (appBM10A-3.2). We agree that this is a useful way to itemise our action items and to involve the full bureau.

ACTION: CF to finish this document and send link to the IACS Bureau. Bureau members to be proactive and check this document so that we keep deadlines and finish the work that we are



each responsible for.

b. IACS National reports. We decided that sending a template to National Correspondents might encourage more responses. This report could be organised under IACS Division Headings. We also agreed that creating a single thematic report with contributions of each country might be a useful way of using this information. We will explore this option when we have more material to work with.

ACTIONS: - IA to create a draft template for National Reports and will seek feedback on this from the Executive Committee (EC) and Bureau.

- Webmaster CF to make a link to any 'IACS' national reports published in the International Glaciology Society (IGS) news bulletin 'ICE' from the IACS website.

c. We briefly discussed the idea of creating 'deputy' positions for Division Heads. We agreed that this could be done in an informal manner. The 'deputy' wouldn't form part of the Bureau. They would however, gain experience and could succeed bureau members.

NOTE: This item to be discussed further during the closed meeting (see BM10C, item 3).

4. Activities of the "Executive Committee" (EC) since Davos (July 2013)

4.1. Short report from the President (Charles Fierz).

CF provided a short description of his activity since BM09. CF and AM attended IUGG Executive Committee meeting during September 2013 in Prague, and the associated IUGG 2015 Scientific Programme Committee (SPC) meeting in Prague (2013), CF also attended the follow-up SPC meeting in Vienna (EGU, 2014). Additionally, CF attended several meetings of partner organizations that will be detailed later.

Additionally, the IACS EC carried out at least 9 telecons since BM09. We briefly discussed the idea of involving the Bureau in more telecons as required.

ACTION: The EC will advertise its telecon meetings in advance and will invite BMs when topics in their area come up (see also BM10C-4).

4.2. Short report from the Secretary General (Andrew Mackintosh).

AM provided an update on progress in putting together the scientific programme for IUGG Prague 2015. Union and Joint Symposia are now finalised. IACS Symposia are nearly ready. AM also mentioned that he will attend the ICSU General Assembly, to be held in Auckland, NZ, in early September 2014. AM will help to represent IUGG there but it is also an opportunity to promote IACS. AM discussed IACS News and the fact that we have not put together an issue for some time.

ACTION: CF to write the next IACS news, detailing developments since DACA-13. AM to follow this with an IACS newsletter about the IUGG Prague meeting.

4.3. Short report from the Immediate Past President (Ian Allison).

IA discussed the Prague 2015 programme, where he has been involved in the Union Lecture on Sea Level Change, and associated Union and Joint Symposia. He also described his involvement in the IUGG UCCEC, as he attended its recent meeting in Beijing. He mentioned that it is time to start thinking about the future of IACS and its Bureau (and this was considered further in closed meeting). IA will attend the SCAR delegates meeting in Auckland, NZ in early September, as the IUGG representative. This meeting will run at the same time and in the same location as the ICSU General Assembly, and there may be opportunity for IA and AM to cross over and work together at these meetings.

5. Awards

5.1. IUGG

5.1.1. Early Career Scientist. IACS received nominations from the Bureau, affiliated individuals and organizations (APECS) and five complete nomination packages were sent to the IUGG secretariat, namely for Drs Ruzica Dadic, Mathias Huss, Ben Marzeion, Hans Christian Steen-Larsen, and Allen Pope.

5.1.2. IUGG Fellowships. Nominations are sought for IUGG Fellowships, which are a tribute, awarded by the IUGG Bureau, to individuals who have made exceptional contributions to international cooperation in geodesy or geophysics and attained eminence in the field of Earth and space sciences. The terms are quite narrow (e.g. 10 years of service). The Bureau discussed two possible nominees for this award (not listed here for reasons of confidentiality).

ACTION: AM will contact the two individuals involved and seek their approval to nominate them. Nomination packages to be arranged by deadline of 22nd September 2014.

5.1.3. Gold medal. The Gold Medal is the highest honour of the International Union of Geodesy and Geophysics, established in 2013 to award Earth and space scientists for outstanding contributions to geodesy and geophysics and for unselfish international cooperation in research. We do not currently have a nominee in mind for this award.

ACTION: An individual was suggested (not listed here for reasons of confidentiality). AM to contact this individual to seek their approval. Nomination packages to be arranged by 22nd October 2014.

5.2. IACS Early Career Scientist Award. IA discussed the idea of establishing an 'early career scientist award' to promote IACS. The bureau agreed to establish this annual award, which would be based on an evaluation of the best cryospheric paper published in a calendar year (2014 will be the first year). The nomination process will be simple – we will request nominations on Cryolist (no self-nominations allowed) and these will be due by the end of January 2015. The nomination package will consist of a brief biographical sketch and a copy of the paper to be considered. A nomination panel will evaluate the applications, and will make a decision by end of March. The award will be announced at IUGG Prague 2015, and the winning paper will be highlighted via a link (subject to copyright) on the IACS website. In following years we will choose an IACS affiliated conference to announce the award. The prize will be 1000 Euro

ACTION: IA to put together a description of this award by the end of September 2014, which after being approved by the Bureau, will be posted on the IACS website and Cryolist by the end of October 2014. IA to take the lead in forming the evaluation committee.

6. Reports and/or statements from collaborators and partners

6.1. Scientific Committee on Antarctic Research (SCAR; Ian Allison). IA presented a powerpoint provided by Dr Mike Sparrow, SCAR Executive Director (appBM10A-6.1). An interesting recent activity by SCAR was its 'Horizon Scan' (<http://www.scar.org/horizonsscanning/>) survey and workshop. 80 questions, within seven overarching themes, that should be addressed by research in the southern polar region over the next two decades have been identified. The major outcomes from the workshop will be published as "Comments" in Nature on August 17, and the detailed questions will be published in Antarctic Science later in the year.

6.2. International Arctic Science Committee (IASC; Hiroyuki Enomoto) (see BM10C-5.1 for Action) IASC council and working group meetings were held at Helsinki, in April 2014. IACS was presented as a partner organization of IASC. As IASC is summarising future research priorities in the Arctic in the ICARP III meeting, IACS should use this opportunity to help prioritise

cryospheric research within the overall ICARPIII framework. The Cryospheric Working Group (CWG) of IASC introduced the idea of an “Albedo” study in the Arctic, and the Terrestrial Working Group (TWG) proposed a snow observation network within the InterAct program. IACS will help to improve these proposals by making contact with the WGs, or by attending the workshops planned in September, and November.

- 6.3. Association of Polar Early Career Scientists (APECS; Charles Fierz)
CF joined a Meeting of the current APECS Executive Committee and the newly appointed Executive Director Gerlis Fugmann on 18 January 2014 in Tromsø, Norway. Collaborations were discussed and CF offered APECS the possibility to seek and propose Early Career co-conveners for IACS sessions in Prague once our scientific programme is complete.
- 6.4. International Permafrost Association (IPA; Charles Fierz)
IPA invited IACS to attend its 24th Council meeting, 18 June 2014 in Evora, Portugal. CF participated on behalf of IACS in a lively discussion that touched on various common topics like membership, budget (71% used to support Executive Director, externally funded), participation in ICARP III activities, etc. CF shortly addressed our common activities: GAPHAZ, which at present has no firm status within IPA, activities in Global Cryosphere Watch (GCW), and the CryoOrganizations.
The IPA Executive Committee chose Hanne H. Christiansen as the senior Vice President to become IPA President in 2016. After the meeting, the IPA Executive Committee proposed to work on a MoU to strengthen the collaboration between our Associations. (see BM10C-5.4.1 for Action).
- 6.5. World Climate Research Program, Climate and Cryosphere (WCRP/CliC; Charles Fierz)
CF visited the Executive Director of Climate and Cryosphere (CliC) Jenny Baeseman 18 January 2014 in Tromsø, Norway. We discussed among others the possibility to organize a cryoOrganization Workshop (see appBM10A-6.5 for Action).
AM mentioned that he appreciated the CliC contributions to the IUGG/IACS scientific programme. IACS also acknowledges that our activities are now also included in the Cryosphere Community Calendar.
ACTIONS: - CF to contact Jenny about IACS representation in CliC.
- AM to contact Jenny regarding possible involvement in Joint IACS-IGS conference to be held in New Zealand in 2017 (see closed meeting minutes BM10C-10).
- 6.6. Global Cryosphere Watch (GCW; Charles Fierz)
CF participated in a CryoNet and the first GCW Steering Group meeting from 20-24 January 2014 in Reykjavik, Iceland. CF is now member of that Steering Group. WMO Executive Council recently drafted a report on the executive council panel of experts on polar observations, research and services (appBM10A-6.6a & b). The report proposes that WMO Congress approves GCW as a cross cutting activity of WMO. This will hopefully enhance the resources of GCW. CF also hosted from 11-13 June 2014 in Davos, Switzerland, the first GCW data portal workshop. The next GCW activity will be a South-American workshop organized by IACS Chilean correspondent Gino Casassa 27-29 October 2014 in Santiago, Chile. CF proposed several South-American IACS correspondents as potential participants.
ACTION: EC to decide which IACS representatives might attend the Santiago meeting. AM might be able to attend if he can schedule collaborative work with Chilean scientists to occur at the same time.

7. IACS Standing Groups

- 7.1. Report from World Glacier Monitoring Service (WGMS; Michael Zemp). Michael Zemp provided his apologies and submitted a report from WGMS.
- 7.2. Report from Global Terrestrial Network - Glaciers (GTN-G; Cecilie Rolstad Denby). CRD provided a report (BM10A-7.2) and attended via a telephone call. She attended the GTN-G steering committee meeting at EGU Vienna in 2014, and also made a trip to NSIDC in Boulder, USA on behalf of IACS.
- 7.3. Report from Glacier and Permafrost Hazards in Mountains (GAPHAZ; Olga Solomina). We noted that some communication from GAPHAZ to IACS comes via CF or AM, and that OS should be their primary contact. There will be a GAPHAZ workshop on 14th September, 2014 in Torino, Italy. GAPHAZ has also been active at the 15th Austrian Climate Days, 2-4 April 2014, Innsbruck, Austria (organized by the Climate Change Centre Austria), and at EGU 2014 in Vienna.
ACTION: EC to decide on IACS representation at forthcoming GAPHAZ meeting in Torino.
- 7.4. Report from joint Commission on Volcano Ice Interaction (CVII; Andrés Rivera). Andrés listened to part of this discussion, and in an email noted that he had not had any recent involvement in CVII. A quick scan of the CVII website shows that they have been active, and that CVII have hosted sessions at various conferences including EGU and IAVCEI 2013 (Japan).

8. IACS Working Groups

- 8.1. Reports from ongoing Working Groups
CF reported on progress of IACS WG 'From quantitative stratigraphy to microstructure-based modelling of snow'. CF noted that this WG was very active and are led by enthusiastic young scientists. They have carried out two workshops so far (in Grenoble 2013 and Davos 2014), and have a third coming up soon in Reading, UK, to discuss the results of the Davos Intercomparison Workshop.
Next year they have plans for a "European Snow Science School". In addition, the WG will participate in the Action "Snow" endorsed by the European Cooperation in Science and Technology (COST; appBM10A-8.1). The main goal of COST Actions is to coordinate ongoing work on a given topic; this is urgently needed for snow monitoring as many similar initiatives pop out.
- 8.2. Working Group on 'Flow law for polycrystalline ice'. RG who oversees this WG as Head of Division, reported this working group will finish its term at the end of 2014. The bureau agreed with this decision. Progress on the review paper led by Ilka Weikusat (WG Chair) has been slow, but we encourage this WG to finish this paper, even if this carries over into 2015. Also see reports by Ilka Weikusat (appBM10A-8.2) and RG on Division V (appBM10B-3.5).
ACTION: RG to communicate decision of the Bureau to Ilka Weikusat.
- 8.3. New Working Groups
The IACS bureau formally endorsed the two recently approved WGs '*Randolph Glacier Inventory and infrastructure for glacier monitoring*' and '*Glacier ice thickness estimation*'. These WGs now have a presence on our website, and both have planned sessions for IUGG Prague 2015. The bureau are excited about these new WGs, and commented that they should make effort to communicate and work together.
ACTIONS: CRD to make contact with these WGs, explaining her role as their primary contact as Head of Division II. CRD also to communicate our expectations in terms of funding requests (up to ~ 2000 Euro per WG per year). Also see item BM10B-4.3 in closed BM minutes.

8.4. Upcoming Working Groups

Ramesh Singh has previously indicated a willingness to set up a new WG on 'Dust and Black Carbon on Snow and Glaciers'. He is leading a session on this topic at IUGG 2015 Prague. We still agree that this is an important topic for a WG, and encourage Ramesh (and/or others) to submit a full proposal on this topic, perhaps following the Prague session.

8.5. Gino Casassa, IACS correspondent for Chile, first proposes to translate the main terms of the "Glossary of Glacier Mass Balance and Related Terms" in Spanish. The Bureau welcomes that initiative, which would have to be coordinated with UNESCO/IHP (appBM10A-8.5).

Second, Gino proposes to launch an IACS initiative to prepare a "Multilingual Cryospheric Glossary". The Bureau acknowledges the need for such a glossary but notes that this would be a gigantic task that IACS alone could not bring to an end. Thus IACS should rather seek to participate into other ongoing work, for example by Global Cryosphere Watch, IPCC, the International Permafrost Association, etc.

The Bureau finally proposes that the CryoOrganizations could tackle this initiative; IACS and CliC could be the leading organizations behind it.

ACTIONS: - CF to get back to Gino Casassa regarding the translation into Spanish of the mass balance terminology.

- CF to get back to CliC (or all CryoOrganizations) to propose an initiative to build up a common glossary.

9. Input from Vice President Cunde Xiao

XC joined by telecon, and provided an update on recent IACS-related activities in China. This involved a discussion of regional activity such as the WMO activities, 3rd Pole Initiative, activities of the IACS National Committee of China. XC noted that the IACS Glossary of Mass Balance terms will be published in Chinese in August (2014). Also, that a textbook on the Cryosphere (as part of a series) will be published in Chinese next year (2015). There will be a conference held in October in China with international participation to consider the transition from IGCP to Future Earth. The Chinese National Committee is also preparing itself for the IUGG Prague meeting.

10. Reports from National Committees and National correspondents

The Bureau shortly discussed how IACS could make better use of these reports both on the website and in the Newsletter.

10.1. Spain (Miguel Ramos)

Miguel Ramos sent a comprehensive yearly report of the activities in Spain (appBM10A-10.1).

10.2. Argentina (Sandra Barreira (by e-mail))

Sandra reports on the special session on cryospheric sciences held at the XIX Geological Congress of Argentina, 2-6 June 2014, Cordoba, Argentina that was organised by IACS Argentinian correspondent Dario Trombotto. IACS sponsored prizes for the two best presentations by Early Career Scientists.

In October and November 2014, two Open Days on glacier related presentations will be organized in Argentina for students, high school teachers, and journalists.

10.3. Slovenia (Polona Vreca)

Due to the late call by the President, Polona's comprehensive report (in Slovenian; appBM10A-10.3) reached us after the meeting.

How to improve on synthetic report from correspondents?

11. Invitation to attend IUGG 2015 (Charles Fierz)

12. Discussion with Japanese committee for IUGG/IACS

Tetsuo Ohata, member of the Japanese national committee for IACS, described some important Japanese activities in the field of cryospheric sciences, such as the GRENE Arctic Program running since 2011 or frozen ground operations with regard to the nuclear power plant disaster. Tetsuo also addressed issues of IACS visibility in Japan. Publications (the glossaries are IACS publications, but primarily attributed to UNESCO), awards to young scientists, and a better information flow from the IACS correspondent to the Japanese Society of Snow And Ice would increase that visibility as well as an active IACS participation at the Arctic Science Summit Week 2015 in Japan. Note, however, that IUGG is quite well known to Japanese scientists, and of course IGS, which will organize a Symposium on Cryosphere and Biosphere in Japan 2012.

13. Close