

## **International Commission on Dynamical Meteorology**

Minutes of the business meeting held in Prague Czech Republic 28 June 2015

Attendees: Richard Swinbank (President), Richard Grotjahn (Secretary), Craig Bishop, Vanda Grubišić, Nili Harnik, Pat Harr, Michael Kurgansky (no longer a member), Jianping Li, Igor Mokhov, Hisashi Nakamura, David Nolan, Thomas Spengler, Istvan Szunyogh, Tim Woollings

0. In addition to the current and former members of the ICDM, visitor Anthony Lupo (who expressed interest in being a member) was present for part of the meeting.

1. RS opened the meeting and welcomed the participants, especially new members of the commission. The attendees introduced one another.

2. The minutes from Davos (2013) were approved.

3. This being his last meeting as ICDM President, RS began his report with a review of some accomplishments which had been aimed at broadening the ICDM activities. A primary element was the Kunming China (2012) workshop and the associated Cambridge University Press book that grew out of that workshop. The discussion in Davos of another workshop came to fruition in 2015 with a workshop in Rosendal Norway (discussed more in item 5 below). He also referenced a blocking workshop being planned for Spring 2016 in Reading England (more in item 4 below).

4. TW presented a 2-page handout describing a 'Workshop on Atmospheric Blocking' being organized by Giacomo Masato, Olivia Martius, and TW. The workshop would occur on 6-8 April 2016, have a limit of 100 attendees, and discuss a series of topics: diagnostics (day 1), relation to extreme weather and trends (day 2) and improved modeling and simulation and response to forcings (day 3). Focus questions mentioned include: what is blocking? Are there trends in blocking? Any changes in impacts and variability? CMIP5 models 'did badly' at simulating blocks but better models now are starting to do a lot better.

Funding was discussed. TW mentioned sources from (UK) National Center for Atmospheric Science, an ELC grant, and the Univ. of Reading. RS mentioned that ICDM could endorse the meeting and thereby assist the organizers in obtaining IAMAS and/or IUGG funding. IUGG funding was estimated to be about 3k Euros, the amount being dependent upon whether there might be further requests from ICDM for support for meetings in the next 2 years. It was felt that requesting funds to support travel by early career scientists who are invited speakers would be particularly attractive to IAMAS and IUGG. The organizers have two candidates for invited speakers (not named) who recently attained their PhD degrees. PH indicated that there could also be funds available through a WMO project on subseasonal to seasonal (S2S) prediction.

5. Following the success of the Kunming meeting, some members at the Davos meeting proposed that ICDM organize a workshop focused on dynamical processes in polar regions. What grew out of that discussion was the successful meeting in Rosendal Norway earlier this year. TS provided a detailed report on the workshop. 'The Dynamics of Atmosphere-Ice-Ocean Interactions in High Latitudes' was held 23-27 March 2015 and jointly organized by TS (ICDM), John Cassano (ICPM), Ian Renfrew (PPP) and Paul Hezel. The workshop website is: <http://highlatdynamics.b.uib.no/> The workshop was well funded by seven sources, so there was no conference fee beyond the hotel costs for the 90 participants. Session topics were: polar predictability, coupled processes, extreme events, and large-scale circulation. The format included 16 invited talks, ~~many 18~~ early career scientists (18 of whom received travel support) among the 59 talks, 2 poster sessions, as well as 3 breakout sessions for in depth discussion. A workshop summary may appear in the Bulletin of the American Meteorological Society or elsewhere.

6. There was brief discussion about offsetting the AMS conference on Atmospheric and Oceanic Fluid Dynamics (AOFD) to be a different year than IAMAS sessions. This year the AOFD conference is the week after IUGG. NH is on the organizing committee and will investigate whether AOFD can move to the alternate year from IAMAS sessions benefitting both the IAMAS session and AOFD session attendance. RG reported that the proximity in time is why he has not participated in AOFD for the past decade. Others mentioned other conflicts that may be created or avoided, such as the AMS mountain meteorology conference (VG) and the middle atmosphere conference.

7. A status report on ICDM-sponsored session at IUGG-2015 was requested. Generally the meeting is very well run. ICDM sessions at Praha included the following. M02 talks were generally of high quality and the poster session well-attended, however, it would be preferred that it not be parallel with M12. In DACA-13 (Davos) parallel session conflict was avoided with a long 'train' of sessions. M02 might benefit from a broadening to be mountain meteorology, dropping the 'dynamics' from the name. However, there appeared to be more supporters of having a separate dynamics symposium from a mountain meteorology symposium in order to prompt observational presentations in the latter. Sessions M10, M11, and M12 went well in Praha, with 10 more tropical cyclone submissions in Praha than in Davos. Session M22, which almost didn't happen, was the second largest IAMAS session with nearly 100 submissions. It would be preferable to avoid conflict with parallel session M13 on a similar topic.

8. There was discussion of sessions to propose for Cape Town (joint conference of IAMAS with IAPSO and IAGA in 2017). IAMAS Symposium ideas (with initial leaders indicated, final convener and co-conveners to be decided) are noted below. Additional ideas may be forthcoming.

- a. Advances in Atmospheric Dynamics (TS to lead, NH as co-convener?, OM, NH, GR) include blocking?
- b. Mountain Meteorology (VG and MRotach to lead)
- c. High-Impact Weather and Climate Extremes (RG (tentatively) to lead, Xuebin Zhang, SNM?, Lisa A?, Julia K?, Brian Golding?, and RS may be co-conveners)

d. Tropical symposia – either separate or in a single sequence (a.k.a. a “train”) is to be decided.  
Separate symposia or two parts of a long train were discussed: 1) Monsoons (JL to lead); 2) a train including Tropical cyclones, ~~and~~ tropical dynamics, and intertropical convergence zone and equatorial dynamics. e.g. cyclones, equatorial waves, MJO, etc. (PH to lead, assistance from MReeder);

Joint sessions with other Associations (IAMAS, IAPSO, IAGA):

e. Data assimilation and ensemble forecasting? (medium range, sub-seasonal) including ensemble initialization? (CB to lead, WD, RS?)

f. Extratropical air-sea interaction Coupled session with IAPSO (HN and TW to lead)

g. Possible symposium linked to WMO themes: extremes, Polar Prediction Project (PPP), and Subseasonal to Seasonal Prediction (S2S) were discussed with leads not yet decided at the time of the meeting. ~~However RS and TS followed up TS to follow up. Similarly there could also be Frederic Vitart agreed to take the lead on a S2S symposium while an <> had agreed to lead a PPS2S symposium (RS to follow up).~~

## 9. Membership changes.

The President (RS) and Secretary (RG) both reached the ends of their terms. RG was elected the new President of ICDM and NH was elected the new Secretary.

ICDM thanks the following members whose service has ended: Past-President John Nielsen-Gammon and members Igor Mokhov and David Nolan. Special thanks to Richard Swinbank for his excellent service to ICDM, most recently as President. RS agreed to continue in the role of Past-President, supporting the new Secretary and President.

At the meeting several people were suggested as new members and the following were well-supported in the discussion:

Iracema Cavalcanti:

Center of Weather Forecast and Climate Studies, and Center of Earth Science System, National Institute for Space Research, São Paulo, Brazil.

Research interests: climate variability, teleconnections, climate dynamics and climate change.

Michael Reeder:

Professor of Meteorology, Earth, Atmosphere and Environment, Monash University.

Research interests: the science of weather producing systems.

Irina Repina:

Associate professor, Moscow Institute of Physics and Technology, department of Aerodynamics and Space Research, Moscow, Russia.

Research interests: experimental studies of atmosphere-ocean interaction and dynamic of atmospheric boundary layer.

Gwendal Rivière:

CNRS scientist position at Laboratoire de Météorologie Dynamique - Ecole Normale Supérieure, Paris, France.

Research interests: The life cycle of extratropical cyclones and extreme events, Rossby wave excitation / propagation and breaking, Low-frequency variability, weather regimes, Mid-latitude air-sea interactions. GFD instabilities, wave-mean flow interactions and predictability studies

POST MEETING UPDATE: Short CVs were obtained for each of these nominees and NH, the new Secretary, included them in an email ballot distributed shortly after the meeting. All four candidates were elected. Congratulations to them and we look forward to working with them.