

WORLD METEOROLOGICAL ORGANIZATION
COMMISSION FOR ATMOSPHERIC SCIENCES (CAS)

7th MEETING OF THE CAS MANAGEMENT GROUP

(via Teleconference, 5 September 2012)

**MEETING REPORT
ACTIONS AND RECOMMENDATIONS**

(2 October 2012)

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1. INTRODUCTION

The meeting was opened 15:00 on 5 September 2012 by the President of CAS, Dr Michel Béland. He welcomed members, especially Dr Hans Volkert, who has been appointed as Special Advisor to the CAS Management Group, and thanked all for the time they have set aside to participate in the meeting held via Teleconference.

1.2 Adoption of the Agenda

The final Agenda and the list of participants are appended (Annexes I and II). The documents and presentations made at the meeting have been posted to the WMO website <http://www.wmo.int/pages/prog/arep/cas/CAS-MG7.html>

2. EC-64 FEEDBACK

D/ARE provided a short overview of the WWRP and GAW documents that were discussed at EC-64 and the resolutions related to the joint WWRP-WCRP Sub-seasonal to Seasonal Prediction Project (S2S) and the WWRP Polar Prediction Project (PPP) – establishment of trust funds and International Project Offices to support each - as well as the decision regarding support for the newly established GURME and Megacity trust fund within the GAW Programme.

3. JSC-WWRP AND POST THORPEX LEGACY

Dr Gilbert Brunet and C/WWR summarized the activities within the WWRP and THORPEX and highlighted a number of new activities and progress on these which were discussed separately under Item 6. Dr Brunet also indicated that as THORPEX comes to an end in 2014, it also provides an opportunity to review WWRP, its structure and focus to ensure alignment between the Programme and the research needs and priorities as expressed by the Members and identified by CAS.

4. OPAG EPAC

Dr Øystein Hov gave an overview of the activities within the GAW Programme and emphasized the significant progress that has been made within the Greenhouse Gas and Aerosol SAGs and within GURME. He noted that GAW is more and more pulled into horizontal activities and initiatives, including GCOS, WIGOS, WIS, the WWRP Polar Prediction Project, SDS-WAS, volcanic ash and urban health-related services. GAW is included in the GFCS, although not very visibly and he noted the need to have a balanced approach between climate change adaptation and mitigation. He also noted that GAW is academic in many ways but also operational, with significance to predictions.

Dr Hov noted with concern the threats to the support for long-term measurements within the GAW Programme and recommended constructive interventions where appropriate.

5. DISCUSSION

Regarding the post THORPEX Legacy, Dr Alan Dickinson, Chair of the ICSC THORPEX indicated that an analysis of the feedback on post-THORPEX arrangements is being done with the aim to find a consensus view, facilitated by the discussions at the ICSC THORPEX from 3-5 October 2012.

CASMG07/ACTION 1: CAS MG agrees that more inputs are required on the post THORPEX follow-on programme from major operation centers and supported such requests by Dr Dickinson.

CASMG07/ACTION 2: Dr Volkert was invited to provide written input reflecting the IAMAS views on the post THORPEX follow-on to Dr Dickinson.

Dr Andy Brown, Co-Chair of WGNE, referred to the participation Dr Geog Grell representing GURME in the WGNE meeting on 5-9 November 2012 in Toulouse, France, following a previous recommendation by the CAS MG for closer cooperation between WGNE and GAW.

Mr Bhawoodien Parker mentioned South Africa's new research vessel, the Agulhas II, equipped for Greenhouse gas and other measurements and which will be used for routine voyages between South Africa and Antarctica as well as more comprehensive atmospheric composition measurements originating from South Africa.

The (mostly) informal linkages, facilitated by the participation of largely the same community of scientists, between GAW and the IGBP and in particular IGAC were discussed in context of emerging opportunities to recognize and support GAW activities, such as the ICSU Future Earth Initiative.

CASMG07/ACTION 3: Dr Hov and C/AER were requested to include a discussion at the OPAG EPAC meeting (April 2013) on how to optimise the linkages between GAW, IGBP, IGAC etc., in context of the ICSU Future Earth Initiative in the best interest of GAW.

6. NEW INITIATIVES

6.1 Sub-seasonal to Seasonal (S2S)

C/WWR provided an overview of progress with regards to the joint WCRP-WWRP S2S project, highlighting the developments since EC-64, which include the development of ToRs for the Trust Fund, Steering Group and International Coordination Office – a title that was found to reflect better the role of such an office. Informal correspondence was sent to the representatives at the 12 Global Producing Centres for Long Range Forecasts to encourage them to interact with the Permanent Representatives of their countries with WMO on the importance to support the S2S project.

Dr Mariane Diop-Kane mentioned a Red Cross project in Senegal that could be of importance to the S2S project while Dr Alice Grimm requested that a Madden-Julian Oscillation (MJO) related case study for South America be included in the planned activities of the S2S project.

CASMG07/ACTION 4: C/WWR to ensure that a case study on MJO influences on the sub-seasonal to seasonal time scale be included in the S2S project for South America.

6.2 Polar Prediction Project (PPP)

C/WWR provided an overview of progress with regards to the PPP, highlighting the developments since EC-64, which mirror that described for the S2S project. PPP is a WWRP project although with links to the WCRP Polar Climate Predictability Project under development. Informal correspondence requesting support was sent to members of EC-PORS.

CASMG07/ACTION 5: CAS MG understands that the Polar Prediction Project will merge with WCRP Polar Climate Predictability Initiative in future and would like to know the plan to merge. WMO Secretariat will report the status on this in the next MG meeting.

6.3 GHG Observation and Analyses System

Dr Jim Butler provided an overview of the Integrated Global Greenhouse Gas Information System (IGIS) and stressed the need for the development of an implementation plan in cooperation with partners – including the IAMAS structures through Dr Hans Volkert - as a next step. Such a plan has to clearly indicate the priorities, timelines and services envisaged.

CASMG07/ACTION 5: Dr Butler and C/AER to work towards a poster on the IGIS at the Extraordinary Congress on the GFCS and making handouts regarding this initiative available to Members.

6.4 Progress on La Plata Basin Initiative

Dr Alice Grimm reviewed the status of the La Plata Basin Initiative, one of the new RDPs in WWRP. She explained that the initiative had been presented at several meetings and currently the links between this initiative and CHUVA (<http://chuvaproject.cptec.inpe.br/portal/en/index.html>) are being enhanced. The CAS MG supported these developments.

6.5 New RDP/FDPs – Sochi-2014, South China Monsoon Precipitation Experiments etc

C/WWR presented an update on the new 4 RDP/FDPs, which were endorsed at the last WWRP JSC in April 2012, including FROST 2014 for Sochi Winter Olympics, South China Monsoon Precipitation Experiment in 2013, INCA-CE and La Plata Basin Initiative. The CAS MG supported these proposals.

6.6 Megacity and Urban Complexes

C/AER presented on new initiatives related to Megacities and Urban complexes and the emerging needs for improved environmental services in these settings. She also highlighted the new developments in the Republic of Korea on urban and rural meteorology and the planning meeting (Jeju, 27-29 August 2012) that she attended on behalf of the CAS President.

6.7 SDS-WAS Project

The CAS MG commented favourably on the establishment of a 3rd SDS-WAS node for the Americas at the Chapman University in the USA, with Dr Bill Sprigg in the lead. The CAS MG appreciates the proposal by Agencia Estatal de Meteorología (AEMET) of Spain to become a CBS Regional Specialised Meteorological Centre for Atmospheric Sand and Dust Forecasting (RSMC-ASDF) according to the requirements for such a centre as defined by CBS in cooperation with CAS. This initiative is seen as a good example of transferring mature research products and services from under the CAS umbrella to the operational framework of CBS.

6.8 Lake Victoria Nowcasting

The proposal for a nowcasting research initiative for Lake Victoria by Dr Paul Joe, Chair of the Working Group on Nowcasting Research, was noted with appreciation. CAS MG suggested that Dr Joe also investigates possible links between this initiative and WCRP GEWEX and noted that the further coordination among agencies will be required for implementing the project.

7. CAS ISSUES

7.1 CAS MG6 Action Items

The CAS MG6 action items were presented and specific reference was made to the statistics on the expert involvement in the various structures and activities of CAS as was indicated in an annex to the action item report (Document 7.1).

7.2 Cooperation between CAS and IAMAS

Dr Hans Volkert introduced IAMAS and explained its relation within the larger IUGG structures. He also gave an overview of the various disciplines represented within IAMAS through its ten International Commissions, many of which are of interest to the work of CAS. Dr Volkert also provided an overview of planned activities, relevant publications and where to find more information on IAMAS and its activities.

7.3 Link between CAS and Regional Associations

Dr Béland highlighted the initiatives between RAs and TCs to ensure better cooperation and alignment of the work of TCs to the needs of RAs and vice versa. Dr Béland also mentioned the letters that he sent, as the President of CAS, to the Presidents of RAs since the previous CAS MG meeting which encouraged the RA Presidents to interact with CAS MG members from their Regions to facilitate interaction.

Dr Béland stated that he is of the opinion that CAS is already responsive to the needs within regions through several RDPs aimed at addressing regional specific needs.

7.4 Strategic and Operational Planning

7.5 Technical Commission Alignment to Needs

Dr Béland and D/ARE mentioned the requirement within WMO to better align strategic and operational planning, the setting of targets and the alignment of budgets to ensure more objective performance monitoring and evaluation.

7.6 ICAO Lidar Ceilometer

Dr Béland referred to the letter received from ICAO on the lidar and ceilometer measurements that are of importance to dealing with the consequences of volcanic eruptions to aviation and the progress report received from Dr Werner Thomas who has been working with WMO on this matter.

CASMG07/ACTION 6: Dr Hov is requested to draft a response on behalf of the CAS President on the request received from ICAO related to the use of ceilometer and lidar measurements for volcanic ash advisories after consulting with the Aerosol SAG and Dr Werner Thomas.

8. DISCUSSION

The discussion on the above items took place under the respective agenda items.

9. UPCOMING EVENTS

9.1 WWRP Summer School 2013

C/WWR reported on the development of a Summer School proposal by Drs Mel Shapiro and Joe Tribia of NCAR to the NSF and WWRP. The proposal requests funding/support for establishing an International Summer School for Trans-disciplinary Prediction of the Earth System: Educating for Trans-disciplinary Careers. The School will convey the challenge, excitement and timely opportunity

for doctoral graduate students and early-career scientists to embark on a trans-disciplinary approach to the scientific challenges related to weather prediction and its socio-economic applications and extending these capabilities to seasonal prediction and services. This proposal is currently under review by the NSF and if favorably considered will lead to the setting up of a Steering Committee and the development of the detailed summer school programme by this committee.

The CAS MG expressed their appreciation to Drs Shapiro and Tribia for their input in drafting the proposal.

9.2 WWRP Open Science Conference (OSC), Montreal, August 2014

C/WWR reported that the OSC is scheduled for August 2014 at Palais des Congres de Montreal, Canada. CAS MG agreed with the appointment of Drs Michel Béland and Alan Thorpe as Co-chairs of the International Organizing Committee. The terms of reference in establishing the organizational structure, including the work of the Committee, will be finalized in due course.

CAS MG members expressed some concern with the planned dates for the OSC as that would coincide with the summer holidays in Europe, however, this issue was not seen as a major stumbling block.

Dr Hans Volkert recommended that the committees and organizational structures proposed for the OSC be simplified.

9.3 Extraordinary Congress, Geneva, 29-31 October 2012

D/ARE provided a short overview of the Extraordinary Congress on the Global Framework for Climate Services (GFCS) scheduled for 29-31 October 2012 during which two documents will be the focus of discussion: the GFCS Implementation Plan and, the GFCS Governance Structure. Mention was also made of the GFCS User Conference which will precede the Congress on 26 and 27 October 2012 in a form of a dialogue between the users and providers of climate services. More information on the Extraordinary Congress is available at:

<http://cq-ext-2012.wmo.int/> and <http://cq-ext-2012.wmo.int/gfcs-user-conference>

9.4 Eighth CAS Management Group Meeting, place and date (first half of 2013)

The 8th Meeting of the CAS-MG will be arranged in the first half of 2013, the date and place to be determined. It will be a face to face meeting focusing on the preparations for the 16th Session of CAS.

9.5 CAS 16th Session (CAS-16), November 2013

D/ARE reported that the Secretary-General has received a formal offer from the PR of Turkey with WMO to host the CAS-16 Session and that the dates have been agreed to be from 18 to 26 November 2013. This offer, for these dates, will in the near future be formally accepted.

10. CLOSURE

The President of CAS closed the meeting at 18:10 on 5 September 2012.

ANNEX I

AGENDA**1. ORGANIZATION OF THE MEETING**

- 1.1 Welcome and Introduction
- 1.2 Adoption of the Agenda

2. EC-64 FEEDBACK**3. JSC-WWRP AND POST THORPEX LEGACY****4. OPAG EPAC****5. DISCUSSION****6. NEW INITIATIVES**

- 6.1 Subseasonal to seasonal
- 6.2 Polar prediction
- 6.3 GHG Observation and Analyses System
- 6.4 Progress on La Plata Basin Initiative
- 6.5 New RDP/FDPs – Sochi-2014, South China Monsoon Precipitation Experiments etc
- 6.6 Megacity and Urban Complexes
- 6.7 SDS-WAS Project
- 6.8 Lake Victoria Nowcasting

7. CAS ISSUES

- 7.1 CAS MG6 Action Items
- 7.2 Cooperation between CAS and IAMAS
- 7.3 Link between CAS and Regional Associations
- 7.4 Strategic and Operation Planning
- 7.5 Technical Commission Alignment to Needs
- 7.6 ICAO Lidar Celiometer

8. DISCUSSION**9. UPCOMING EVENTS**

- 9.1 WWRP Summer School 2013
- 9.2 WWRP Open Science Conference, Montreal, August 2014
- 9.3 Extraordinary Congress, Geneva, 29-31 October 2012
- 9.4 Eight CAS Management Group Meeting, place and date (first half of 2013)
- 9.5 CAS 16th Session (November 2013)

10. CLOSURE

ANNEX II

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