

Review of Actions in CAS-MG2

(submitted by the Secretariat)

Summary of Decisions

Excerpt from CAS-MG2 Report

Decision 1: CAS-MG2 welcomed the acceptance by Cg-XV of the final report of the WMO/IUGG assessment group entitled "Aerosol Pollution Impact on Precipitation: A Scientific Review". It extended its thanks to the co-editors Profs. Z. Levin and W. Cotton, G. Isaac (leader of the independent peer-review) and all authors and reviewers involved. It requested WMO to proceed to work with IUGG to publish the review as a book. **(Action: D/AREP)**

Decision 2: Consider including a WMO Air Quality Prediction System to the cross-cutting issues of Chapter 5 that links to the GAW GURME project. **(Action: OPAG-Chairs, D/AREP)**

Decision 3: Consider whether the symposium suggested for Nowcasting in Canada in 2009 by T. Keenan, Chair of the WWRP Nowcasting research working group, could be coordinated with IAMAS 2009 in Montreal **(Action: Chair OPAG-EPAC, CAS Pres.)**.

Decision 4: CAS-MG2 recommends that the need for WIS requirements from TIGGE is addressed through appointment of an appropriate CAS expert to the Inter-commission task force on WIS. **(Action: CAS Pres., D/AREP)**

Decision 5: CAS confirms that the name of the verification research group is the "Joint WWRP/WGNE Working Group on Forecast Verification Research". It was also recommended that this group addresses issues related to air quality verification.

Decision 6: CAS endorses the WCRP/WWRP "Climate and Weather Modelling Summit" hosted by ECMWF from 6-9 May 2008 with Chair OPAG-WWRP and Chair WGNE on the organizing committee.

Decision 7: Noting that the SERA WG has not been very active, CAS-MG2 requests that a solution is found. **(Action: Chair OPAG-WWRP, WMO Secretariat)**

Decision 8: CAS strongly recommends that the WMO Secretariat, in its restructuring, addresses the gap that exists in the research component of the WMO hydrology and water resource programme. In particular, it requests CAS, CBS & CHy President and corresponding directors to develop a plan. **(Action: CAS Pres., D/AREP)**

Decision 9: CAS-MG2 supports the "3rd International WWRP-THORPEX Science Symposium in 2009", and requests the THORPEX ICSC to work with the WMO Secretariat (D/WWRP) to finalize the date and venue and to include WWRP-THORPEX IPY activities in a session. This is the link to the TIGGE user workshop Action 8 in the ICSC report.

Decision 10: CAS decides to rename the Joint Scientific Steering Committee (JSSC) of OPAG EPAC to Joint Scientific Committee (JSC) of OPAG-EPAC in order to be consistent with the JSC of OPAG-WWRP.

Decision 11: Following the review of actions in the THORPEX ICSC report, CAS-MG2 notes that Actions 3 (D. Burridge) 10 & 11 (M. Béland) still need to be addressed.

Decision 12: Contact ECMWF to determine the status of their data. Are these data sets being provided to the archive centre and if not, when will they be submitted to the TIGGE archives? (**Action: D/AREP, L. Ucellini as CAS TIGGE representative, P. Bougeault**)

Decision 13: CAS-MG2 recommends for confirmation by WCRP that the "CAS/JSC WGNE" is renamed "CAS/WCRP WGNE". (**Action: D/AREP, D/WCRP**)

Decision 14: CAS-MG2 should confer with co-presidents of JCOMM to map out pros and cons of different options. (**Action: CAS Pres.**)

Decision 15: The CAS-MG2 approved the "WMO Statement on Weather Modification (including an Executive Summary)" and the "WMO Guidelines for the Planning of Weather Modification Activities" with no content changes but with slight editorial changes (see Attachment 5). The only change was to replace the second bulleted point under Precipitation Enhancement in the Executive Summary with a more explicit text copied from the Statement (paragraph 1 under the section "Orographic mixed-phase cloud systems") and to correct an error in the last sentence of paragraph 1 of the Guidelines regarding the approval process that was outdated. This acceptance and the slight editorial change will be communicated to the Members of the ET and the review team (Action D/AREP). CAS-MG2 agreed that the documents can now be posted on the web by the WMO Secretariat and made available for discussion at the 9th Scientific Conference on Weather Modification (**Action D/AREP**) and that the completion of these revisions can be announced in the President's report to EC-LX June 2008. (**Action: CAS Pres., D/AREP**)

Decision 16: CAS-MG2 approved the proposed terms of reference of the "WMO Weather Modification Research Trust Fund" having the purpose of:

- i. Encouraging research on weather modification, and provide guidance on available scientific knowledge about weather modification.
- ii. Assisting Member countries that request advice in practicing sound weather modification research.
- iii. Supporting the organization of the quadrennial WMO Scientific Conference on Weather Modification, encouraging especially participation of scientists from developing countries and scientists new in weather modification research.
- iv. Supporting activities of the WMO Expert Team on Weather Modification (Expert Team Terms of Reference defined in CAS-XIV).

It asked for completion of the terms of reference of the fund proposed including amendments to the administrative part of the proposed Trust Fund (document 4.4.2) to specify the role of the Expert Team on Weather Modification. (**Action: WMO Secretariat, A. Mokssit; Chair Expert Team on WM**)

Decision 17: CAS-MG2 recommended that at the 9th Scientific Conference on Weather Modification, the recommendations for future research developed in the Forum on the last day of the Conference are published in the Proceedings. It tasked the ET-WM to develop a CAS implementation plan for Weather Modification Research that can be presented to donors to the Trust Fund. (**Action: Chair ET-WM, A. Mokssit**)

Decision 18: CAS-MG2 approved the WIGOS GAW/GOS Pilot Project proposal for development of a pilot project as described in Attachment 6 with changes recommended to have the ad hoc group “assist CAS and CBS in implementing” but taking into account concerns of CBS MG expressed in the minutes including concern that costs are minimized. **(Action: D/AREP, AD/WWW et al)**

Decision 19: CAS-MG2 resolved to appoint a representative to the inter-commission group on WIS. **(Action: D/AREP)**

Decision 20: Ensure through communication with WMO management that appropriate scientific expertise from the numerical weather prediction community is represented in the planning and sessions of WCC-3. **(Action: D/AREP; CAS Pres.)**

Decision 21: CAS-MG2 recommends that CAeM increase the focus on the research into the global pollution effect of aircraft traffic. International aircraft emissions contribute to upper troposphere ozone formation, cirrus formation and to the water vapour in the lower stratosphere. Due to growth in international traffic, a more concentrated effort is needed on how to reduce emissions and R&D is a clue to reducing in a cost effective way.

Decision 22: To address the suggestions for collaboration by the President of CAeM (Attachment 7). **(Action: Chair OPAGs EPAC and WWRP Oystein and Gilbert)**

Decision 23: CAS President and Co-chair of IPY, commented that the IPY JC is too optimistic, that international coordination related to legacy will happen by itself at the next IPY JSC meeting in Quebec.

Decision 24: Recognizing the need for updating the GAW technical regulations and for a guide on GAW as a mandatory publication, CAS-MG2 endorsed an effort to plan and implement the production of such documents while minimizing the impact on resources and optimizes the impact on filling gaps in the global atmospheric chemistry network. **(Action: D/AREP & AD/WWW)**

Decision 25: It was requested that the Shanghai Multihazard Early Warning System (MHEWS) activities are presented to the WGNE group meeting in October 2007 in Shanghai. **(Action: D/AREP, Chair WGNE, CMA representative)**

Decision 26: CAS-MG2 noted the important research opportunity for WMO programmes at the 29 October meeting at ICSU on Natural and Human-Induced Environmental Hazards and Disasters and recommends that WMO research is represented.

Decision 27: CAS-MG2 recommends that the President and the WMO Secretariat work together to involve the technical commission in the implementation of 2008-2012 activities so as to ensure an effective delivery of scientific programmes for WMO Members. **(Action: CAS Pres., WMO Secretariat)**

Decision 28: Provide to CAS-MG2, as soon as possible, the list of core meetings to be covered in planning the AREP supported programmes in the 2008 to 2009 period. **(Action: D/AREP)**

Decision 29: Members were requested to forward suggestions for membership to the President. **(Action: CAS Pres., members CAS MG)**

Decision 30: Publish on the WMO AREP website the composition of the CAS MG, WGs, SAGs and ETs **(Action: D/AREP)**

Decision 31: The Management Group will be notified in 2008 as soon as a decision on the location and time is made. **(Action: CAS Pres.)**

Decision 32: Finalize the time and place of the next MG meeting before the end of 2007 and notify the management group (Action: **CAS Pres., D/AREP**)