

CHy-15 decisions to be considered by the AWG in preparing its workplans

CHy-15 Resolution	Decision	Remarks
3/1 (CHy's response to Cg decisions)	To request the Secretariat, and DRR Programme in particular, to reflect adequately hydrological aspects in preparation of the International Conference on MHEWS in 2017 and dedicate a session of the conference on advances being made by National Hydrological Services in provision of early flood warnings and the role of NHSs in this regard for reducing loss of life and property;	
3/1	To request that the AWG engage the Satcom users' forum in a discussion of the WMO branded disaster alerting tariff and how best to establish a disaster alerting tariff test case on flood warnings, while encouraging the Satcom users' forum to establish good links with the WMO Disaster Risk Reduction programme, in order to share best practice and explore the wider requirements for such a tariff.	
3/1	To recommend that, in view of the complexity of the GCOS Implementation Plan, one or more OPACHE members explore what actions might be needed to help GCOS make better use of CHy observing capabilities, particularly WHOS, in its hydrology and water resources-related actions.	
3/1	To request its AWG to explore with the GCW Project Office possible joint activities and to propose a plan for collaboration that would allow the translation into practice of Resolutions 40 (Cg-17) and 43 (Cg-17) regarding high-latitude and high-altitude services, with a focus on observations and availability of data.	
3/1	To appoint a member of the OPACHE as a rapporteur on public-private partnership in hydrology to act on the requests of Resolution 67 from the CHy perspective.	
4.1(1)/1 (QMF-H and CHy's strategy on regulatory material)	<p>To engage in a review and update of the Technical Regulations, Volume III: Hydrology (WMO-No. 49) and related regulatory publications relevant to its mandate and responsibility by the time of Cg-18 in 2019, according to the following principles:</p> <p>(i) To adopt in CHy's Regulatory Material a more prescriptive language when suitable, to promote a culture of compliance, recognizing the specificity of hydrology;</p> <p>(ii) To address Technical Regulations and selected topics in the Guide to Hydrological Practices, Manuals on hydrology and water resources, and guidance material and technical documents);</p>	
4.1(1)/1	To establish a Task Team of experts, operating under the AWG, to review and assess CHy Regulatory Material, establish a detailed plan for updating it and	

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	overview its implementation, and prepare a revised text of Technical Regulations Vol. III to be submitted to the Executive Council in 2018 and consider the benefits and risks of aligning CHy's hierarchy and naming of regulatory material documents with WMO's general practice and terminology;	
4.1(1)/1	<p>Requests the Secretary-General to continue supporting the president of the Commission and the Advisory Working Group in:</p> <ol style="list-style-type: none"> (1) Providing training on QMS development during the next intersessional period to more effectively engage the NHSs in this priority; (2) Giving priority to the translation of the guidance material on QMS, including the QMS checklist and case studies, in other UN official languages, within the limits of available resources; (3) Maintaining and further developing the QMF-H dedicated website http://www.wmo.int/pages/prog/hwrp/qmf-h/index.php; (4) Finalizing the preparation and publish the Manuals on Water Resources Assessment and on Flood Risk Mapping; (5) Considering the preparation of a Manual on Sediment Measurement (bedload and suspended); (6) Finalizing the update of the <i>Guidelines on the Role, Operation and Management of National Hydrological Services</i> (WMO-No. 1003); (7) Continuing the cooperation with ISO, including identification of other material to be considered for adoption as common documents, and developing similar cooperation arrangements with other international and regional standard setting entities, when relevant; 	
4.1(1)/2 (Project X)	<p>Requests:</p> <ol style="list-style-type: none"> (1) The AWG, in its capacity as Steering Committee of the project, to approve the final workplan of the project for the next intersessional period 2017-2020 on the basis of the recommendations of the Management Committee and of the deliberations of the current CHy session; the workplan should include specific activities, deliverables, a timeline and an estimated budget; (2) The Secretariat to provide the necessary support to this important activity, in particular by activating the new composition of the Management Committee at the earliest and by providing the funds requested in the approved budget, within the limits of available financial resources; 	Chair position currently vacant

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	(3) The AWG to establish mechanisms to ensure close collaboration between the Project and the Global Hydrometry Support Facility in relation to best practice and innovation in flow measurement;	
4.1(2)/1 (Governance of GHSF)	<p>Approves the structure, terms of reference and membership of the GHSF Advisory Council. The GSHF Advisory Council replaces the WHYCOS International Advisory Group (WIAG), which therefore ceases to exist;</p> <p>Approves the terms of reference and membership of the Innovation Hub Committee (InnoC) and authorizes the Advisory Council to revise them if necessary;</p>	
4.1(3)/1 (Data operations and management)	<p>Approves the further implementation WHOS Phase I as well as the initial concept of WHOS Phase II, as described in paragraphs 4.1(3).4 to 4.1.(3).8, and requests the AWG, with the support of the WMO Secretariat, to develop an initial implementation plan, covering issues such as governance, architecture, relationships with the WIGOS and WIS centres, provision of metadata into OSCAR and a clear definition of the roles of CHy, the Secretariat, the global data centres, and the NMHSs, to be presented to EC-70 in 2018 for its endorsement;</p>	Propose to discuss at joint AWG/CHy – MG/CBS meeting
4.1(3)/1	<p>Requests the president of CHy:</p> <p>(1) To form a small task team in charge of preparing a report to the Executive Council with regard to the evolving role of the GRDC, IGRAC and HYDROLARE, and their relationship with WMO, with respect to the monitoring and measurement of the achievement of the SDGs, their contributions to GFCS and support to WHOS, GHSF and other CHy initiatives;</p> <p>(2) To liaise with the president of CCI to concur with CHy to include GPCC in the task team and in the review of its evolving role mentioned above, in a manner similar to the GRDC, IGRAC and HYDROLARE;</p> <p>(3) To continue ensuring an appropriate representation of the Commission</p>	Propose to discuss (3) at

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	in the Inter-Commission Coordination Group on the WMO Integrated Global Observing System (ICG-WIGOS) and in other relevant WIGOS and WIS;	joint AWG/CHy – MG/CBS meeting
4.1(3)/1	Requests the AWG to prepare a new version of the observational requirements and the Statement of Guidance for the Application Area « Hydrology », taking into consideration the implementation plan of WHOS Phase II, to be presented to IPET-OSDE in the second half of 2017 and made available to NHSs through the WHOS web page.	Propose to discuss at joint AWG/CHy – MG/CBS meeting
4.1(3)/1	Requests the AWG engage with the Commission for Basic Systems to ensure that Phase 2 of the WHOS is fully aligned with the WIS 2.0 Strategy.	Propose to discuss at joint AWG/CHy – MG/CBS meeting
4.1(3)/1	Requests the Secretary-General to continue promoting the development of free and open source software for hydrology (such as MCH), according to user requirements and make them available to all users.	
Recommendation 4.1(3)/1 (Water ML2.0)	Concurs with Recommendation 3.3(2)/1 (CBS-16) to the Executive Council, to adopt the draft Resolution — <i>Data representations for hydrological information</i> , contained in Annex 1 to this Recommendation, with the addition of the « Requests OGC » indicated therein and Annex 2 to that draft resolution	
	Requests OGC to revise the non-normative (informative) material on the basis of the comments to be provided by the CHy representatives in the Hydrology Domain Working Group (HDWG).	Tony Boston has prepared a first draft of the revision
4.2(1)/1 (CHy's contribution to the future GDPFS)	Requests the president of CHy or delegated AWG members: (1) To ensure that all hydrological aspects and specifics and in particular the needs and concerns of NHSs are properly reflected in the development of the new Seamless Data-processing and Forecasting System; (2) To consider reviewing the definitions of forecasting ranges in hydrology included in the Technical Regulations: Vol. III – Hydrology, and recommend to the Executive Council the necessary modifications to be more consistent with those used in meteorology, but retaining differences and including other definitions appropriate for hydrology;	Propose to discuss at joint AWG/CHy – MG/CBS meeting

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	<p>(3) To develop a proposal of a comprehensive structure for hydrology within the new Seamless Data-processing and Forecasting System that would encompass hydrological data, analysis and forecasting and could include new entities such as World, Regional, and National Hydrological Centres, with clearly defined roles and responsibilities;</p> <p>(4) To develop documentation describing the procedures for the designation, mandatory functions, and activities of new centers, taking into account the principle that World and Regional Centres shall respect the primary roles and responsibilities of NMHSs in the delivery of flood forecasting and warning services;</p> <p>(5) To interact with various global and regional forecasting initiatives making them aware of this ongoing process, in particular item (4) above;</p> <p>(6) To report on progress of the Seamless Data-processing and Forecasting System implementation to CHy-16;</p>	
4.2(1)/2 (FFI and CHy's contribution to DRRP)	Decides to reaffirm its support to the continued implementation of the Flood Forecasting Initiative in accordance with its Strategy and Action Plan, the recommendations of FFI-AG-2 to strengthen the focus of the FFI on activities associated with short- to medium-term forecasting and the FFI-AG Work Plan 2016-2019;	
4.2(1)/2	<p>Requests the president of CHy, with the assistance of the appropriate members of the AWG and OPACHE experts:</p> <p>(1) To ensure that CHy continues to contribute actively to the Disaster Risk Management activities of WMO while promoting the principles of integrated flood management and integrated drought management and increasing the visibility of other hydrological contributions such as the promotion of E2E EWS for flood forecasting;</p> <p>(2) To coordinate with the president of JCOMM a joint assessment of the initial phase of CIFDP and, depending on its results, to consider the desirability of developing a governance structure and procedures that would transition the CIFDP to a more sustainable platform for the strengthening of national multi-hazard early warning systems to</p>	MG of JCOMM discussed this issue in January. Need to receive feedback.

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	<p>address flooding in coastal areas;</p> <p>(3) To include under the Focus Area “Hydrological Applications, Products and Services”, an activity consisting in investigating the applicability and advantages of new protocols, such as the Common Alerting Protocol (CAP), in public alerting for hydrological hazards.</p>	Propose to discuss at joint AWG/CHy – MG/CBS meeting
Paragraph 4.2(3).4 (not a resolution)	In view of the important role that water plays in connecting several of the Sustainable Development Goals (SDGs), and of the opportunities it offers for synergies and integration within the 2030 Agenda for Sustainable Development, the Commission discussed the relevance of proposing to CCI and CAgM the revitalization of the activities of the Joint Expert Group [on Climate, Food and Water] to promote the SDGs' water-related targets and ensure that they are translated into national and local action plans.	No decision was recorded in the Work Programme of CHy
4.3/1 (Pilot WMO Global Hydrological Status and Outlook System)	<p>Decides:</p> <p>(1) To initiate the WMO Global Hydrological Status and Outlook system;</p> <p>(2) To approve the formation of an expert Task Team to oversee the Pilot Phase of the initiative and report to CHy-16 on the findings;</p> <p>Requests the AWG to define the Terms of Reference and Membership of the expert Task Team, giving due consideration to the involvement of representatives from Developing Countries;</p> <p>Emphasizes the need to link this initiative closely with other related WMO activities such as WIGOS (in particular by making use of the opportunities provided by WHOS) and the GDPFS and encourages liaison, as necessary, with other related activities;</p> <p>Requests the AWG, through this initiative, to support development of capabilities of NHSs in the field of sub-seasonal to seasonal hydrological forecasting as a contribution to GFCS;</p> <p>Further Requests the President to explore the opportunities for developing this initiative as an inter-commission activity with participation from other Technical Commissions;</p>	Propose to discuss at joint AWG/CHy – MG/CBS meeting
5/1	Decides:	

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(Capacity Building in HWR)	<p>(1) That the WMO Strategy on Capacity Building in Hydrology and Water Resources Management, contained in the Annex to this resolution, should guide the activities of the Organization in this area for the period 2017–2020;</p> <p>(2) To continue with the approach to technology transfer and knowledge management that consists of a robust system with full technical support for a limited number of activities;</p> <p>(3) To close down the HOMS website;</p> <p>(4) To ask the AWG and the Secretariat to consider developing open source and community of practice solutions to promote the transfer of technology for the value chain of the most important products and services of the NHSs;</p> <p>Requests the Secretariat to increase its support to the Joint Task Team on the Basic Instruction Packages (JTT-BIP) in order to ensure that the resulting amendments to the WMO regulatory material are ready for adoption by EC-70 in 2018;</p>	
Paragraph 7.2 (not a resolution)	For instance, individual members of the AWG could be assigned as “liaisons” of the Commission with the regional working group of their Region, with the specific task to maintain a two-way communication at the working level between CHy and the regional experts.	
Paragraph 7.3 (not a resolution)	The Commission expressed that the relationship between the AWG and the Regional Working Groups on Hydrology represents a demonstrable best practice. It encouraged the president of CHy to use every opportunity to document and promote the effectiveness of this arrangement throughout WMO. Accordingly, the Commission also agreed to continue to review and assess the accomplishment of water-related activities undertaken through the WMO Regions for application from a global perspective.	