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Executive Council
Capacity Development Panel
EC-CDP

World Meteorological Organization Executive Council Capacity Development Panel

Report of the 12th Meeting (EC-CDP-12)

**16 and 17 February 2026
(Online meeting)**

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EXECUTIVE SUMMARY

The twelfth meeting of the Executive Council Capacity Development Panel (EC-CDP-12) was held online from 16 to 17 February 2026. Ms Ko Barrett, Deputy Secretary-General of WMO, opened the meeting, which was chaired by Dr Carla Gulizia, Acting-Chair of the EC-CDP. In her welcome remarks, Ms Barrett emphasized that capacity development remains central to WMO's mandate, enabling Members to translate global standards, scientific advances and emerging technologies into effective national services in an increasingly complex and risk-prone environment. She highlighted the growing pressures on National Meteorological and Hydrological Services (NMHSs), the accelerating impact of Artificial Intelligence (AI) and other technological developments, and the need to address related governance and competency implications. Stressing the importance of updated qualification frameworks, strategic coherence and close coordination with the Joint Advisory Group on Artificial Intelligence (JAG-AI), she underscored the Panel's key role in ensuring Members remain relevant, responsive and fit for purpose.

During the meeting, the Panel reviewed progress since EC-CDP-11 and considered a substantial number of updated and newly developed competency frameworks across meteorology, hydrology and observing systems. These included frameworks related to volcanic ash forecasting, satellite skills and knowledge, instrumentation and hydrological observations, Numerical Weather Prediction (NWP), impact-based forecasting, and revised Basic Instruction Packages for Hydrologists and Hydrological Technicians. The Secretariat presented a consolidated review timeline, and the Panel agreed to provide feedback within the proposed timeframes.

The Panel received an update on WMO AI-related activities, including implementation of Resolution 4 (Cg-Ext(2025)) and the establishment of the Joint Advisory Group on AI. Key priorities include advancing AI-related training and strengthening coordination. Members emphasized that increasing reliance on AI must not dilute core forecaster competencies and highlighted the importance of ensuring accessibility and support for developing countries. The Panel was invited to designate a Permanent Observer to JAG-AI.

The Panel agreed on several actions and conclusions, including the establishment of a Task Team to promote the Capacity Development Framework, the decision not to fill the vacant member seat at this stage, and the adoption of a timeline for the review of competency frameworks.

Updates were also provided on Early Warnings for All (EW4All) Pillar 2, including Rapid Assessments and Country Hydromet Diagnostics, as well as on coordination of education and training activities and the work of the Expert Teams. The Panel reaffirmed its commitment to ensuring coherence, quality and strategic alignment of capacity development activities across WMO.

The list of participants is available in Annex-I, and the list of actions from EC-CDP-12 in Annex-II. All related documents and presentations are available in the meeting webpage at <https://etrp.wmo.int/course/section.php?id=5017>

FULL REPORT

1. Opening of EC-CDP-12 and adoption of the Agenda

The twelfth meeting of the Executive Council Capacity Development Panel (EC-CDP-12) was held online from 16 to 17 February 2026, under the chairmanship of Dr Carla Gulizia, Acting-Chair of the EC-CDP.

The meeting was formally opened by Ms Ko Barrett, Deputy Secretary-General of the World Meteorological Organization (WMO). In her opening remarks, Ms Barrett welcomed participants and expressed appreciation for the Panel's continued leadership on capacity development, which remains central to WMO's mandate and directly relevant to all Members. She emphasized that capacity development must evolve to address accelerating technological change, particularly AI, and stressed the importance of maintaining professional standards, workforce development, and coherence across WMO bodies.

Dr Véronique Bouchet, Senior Director of the Department of Science, Services and Capacity Development (SSCD), underscored the increasing integration of machine learning and AI across meteorology, hydrology and climate services. She highlighted the importance of updating competency frameworks and exploring new, more hands-on approaches to workforce development.

Dr Mingmei Li, Director of the Division of Capacity Development, reaffirmed the Secretariat's readiness to support the Panel's work and facilitate discussions over the two half-days of the meeting.

Following the opening remarks, the Chair invited the Panel to review the [Agenda and Workplan of EC-CDP-12](#). As no amendments were proposed, the agenda was adopted without changes.

2. Review of actions since EC-CDP-11

2.1. Summary report on activities since EC-CDP-11

Dr Carla Gulizia, Acting-Chair of the EC-CDP, presented a summary of activities undertaken since EC-CDP-11 (September 2025), structured around four main areas: coordination meetings between the Acting-Chair and the Secretariat, activities of the Expert Teams, requests received by the Panel, and participation in the Advisory Group on Socioeconomic Benefits (AG-SEB) under SERCOM.

Regular coordination meetings were reported to be held between the Acting-Chair and the Division of Capacity Development. The Expert Teams (ET-EPC and ET-GO) continued implementing their respective work plans. A coordination meeting with the Chairs of ET-EPC was held on 23 January 2026, in line with Action 6 of EC-CDP-11. Detailed progress reports from both Expert Teams were scheduled under Agenda Items 5.1 and 5.2.

Since EC-CDP-11, the Panel received several requests for review and feedback on competency frameworks and related documents. These included final reviews of the competency framework for Volcanic Ash Forecasters and updates to Satellite Skills and Knowledge for Operational Forecasters; initial feedback on updated Basic Instructional Packages for Hydrologists (BIP-H) and Hydrological

Technicians (BIP-HT); two new frameworks related to Numerical Weather Prediction (NWP); updates and development of frameworks for personnel performing hydrological observations; and a new competency framework for impact-based forecasters. The Panel was also requested to designate a member to serve as *Permanent Observer* in the Joint Advisory Group on Artificial Intelligence (JAG-AI).

The Acting-Chair further reported on her participation as focal point of the CDP in the Advisory Group on Socioeconomic Benefits (AG-SEB), which reports to the SERCOM Management Group. AG-SEB met regularly since CDP-11, including virtual meetings on 3 and 17 October, 6 November, and 12 December 2025, and an in-person meeting on 13–14 November 2025 in Geneva. The Group continued its work on the White Paper on “Socioeconomic Benefits of Weather, Climate, Hydrological, Marine and related Environmental Services: The Role of WMO” and the SEB Toolbox. Future updates were scheduled for discussion at the next AG-SEB meeting on 20 February 2026.

The Panel took note of the report.

2.2. Review of open actions

Ms Luciane Veeck (Training Activities Unit, Division of Capacity Development) presented an update on open actions arising from recent Executive Council sessions, Congress, and previous meetings of the Panel.

The Panel reviewed the status of actions, as reflected in the Action Tracker available in the EC-CDP 2024–2027 Working Area (<https://etrp.wmo.int/mod/url/view.php?id=25568>), and noted the progress achieved.

A discussion was held on a proposal by Dr Carla Gulizia to invite ad hoc participants to form a Task Team to support activities promoting the WMO Capacity Development Framework. The proposal was well received and endorsed by the Panel.

EC-CDP-12 Agreed conclusion 1: The Panel agreed to invite ad hoc members to form a Task Team to work on activities promoting the WMO Capacity Development Framework. The TT will be led by Dr Carla Gulizia.

2.3. Discussions on the vacant member seat

The Secretariat presented the results of the self-assessment of collective skills of the Panel, undertaken in response to the vacant seat among the nominated representatives of WMO Members.

The analysis reviewed the distribution of expertise across members in thematic areas relevant to the Panel’s mandate, with a view to informing considerations on the overall balance of skills within the Panel.

During the discussion, members exchanged views on the implications of the vacancy and on the desirable profile of expertise to complement the current composition of the Panel. It was noted that ensuring balanced representation of competencies relevant to the Panel’s work remains important, and that achieving this would require a targeted call for nominations. Members also considered the implications of not filling the vacancy in 2026.

Noting that a call for nominations would need to be initiated within the next six months to support the selection process for the next membership cycle, in accordance with the Terms of Reference, the Panel agreed that, at this stage, it would not indicate a candidate to fill the vacant seat in 2026.

EC-CDP-12 Agreed conclusion 2: The Panel agreed not to fill the vacant seat on the Panel at this stage.

3. Updates on capacity development activities by representatives of other WMO bodies

3.1 Updates from Research Board capacity development activities

Prof. Mary Scholes, representative of the Research Board, provided an update on capacity development activities undertaken within the framework of the Research Board.

She outlined ongoing efforts to strengthen coordination between research-driven initiatives and other WMO bodies, including the Capacity Development Panel, with a view to enhancing coherence and identifying synergies across programmes. The importance of ensuring that research outcomes are effectively translated into operational practice and capacity development support to Members was emphasized.

Prof. Scholes referred to activities aimed at strengthening engagement with the research community and supporting early-career scientists. In this context, she highlighted the role of the WCRP Academy in facilitating training opportunities and knowledge exchange within the climate research community. It was noted that the future continuation of the WCRP Academy remains uncertain.

The discussion underlined the need for continued collaboration between research programmes and WMO education and training structures to ensure alignment with Members' evolving needs.

The Panel took note of the update.

3.2 Updates from INFCOM capacity development activities

Ms Jennifer Milton, Capacity Development Coordinator and representative of INFCOM to the EC-CDP, provided an update on capacity development activities undertaken within the framework of INFCOM.

She outlined ongoing efforts to strengthen the alignment between infrastructure-related developments and education and training activities, with a focus on ensuring that technical advances are accompanied by appropriate human resource development support to Members. Ms Milton also highlighted ongoing work related to the development and review of competency frameworks and enabling skills frameworks supporting the implementation of WMO infrastructure systems and services.

Ms Milton further informed the Panel of an ongoing assessment of the INFCOM approach to development projects, aimed at identifying improvements to better address Member needs and

strengthen guidance, best practices and communication. She noted several areas where collaboration and feedback from the Panel would be beneficial, including the promotion of the INFCOM Capacity Development Materials Dashboard, consultation on recommendations arising from the assessment, and coordination on training and capacity development initiatives.

The Panel took note of the update.

3.3 Updates from SERCOM capacity development activities

Dr Ardhasena Sopaheluwakan, representative of SERCOM, provided an update on capacity development activities undertaken within the framework of SERCOM. He referred to the main conclusions of the SERCOM Management Group meeting (1–5 December 2025), which emphasized the need to clarify the roles and responsibilities of Technical Commissions and Regional Associations in the formulation and delivery of capacity development activities.

It was noted that ongoing efforts, involving SERCOM, Regional Associations and the Capacity Development Panel, aim to further refine the description of the Capacity Development Programme. This description, to be considered by EC-CDP-12 and subsequently submitted to EC-80 for approval, is expected to provide the basis for defining SERCOM's core mandate and for prioritizing its work programme in relation to capacity development, with an important contribution from Regional Associations.

Dr Sopaheluwakan also highlighted the need for improved coordination on cross-cutting topics addressed by multiple subsidiary bodies, including capacity development, quality management systems, business continuity management and socioeconomic benefits. In this context, continued collaboration with the Capacity Development Panel and Regional Associations was encouraged.

The Panel took note of the update.

3.4 Updates from HCP capacity development activities

Dr Lucas Chamorro provided an update on capacity development activities undertaken within the framework of the Hydrological Coordination Panel (HCP), highlighting recent initiatives focused on strengthening hydrological prediction capabilities.

He outlined a modular training programme on subseasonal to seasonal (S2S) hydrological prediction and HydroSOS methodologies implemented in Regional Association III. The programme combines self-paced learning, instructor-led online sessions, and in-person practical training using national datasets, enabling progressive knowledge development and application by participants. The programme's innovative approach and successful implementation have led to the institutionalization of the modular training methodology across hydrology-related training activities, with both regular and extra-budgetary projects adopting this approach. It was also highlighted that strengthened collaboration between HydroSOS and the ENANDES project had been achieved, integrating hydrological and climate services to support end users.

Challenges were also identified, including difficulties in scaling up this approach across Members and languages, ensuring continuity of trained personnel, and addressing infrastructure and data limitations in some NMHSs. The Panel took note of the update.

4 Report on CONECT activities

Dr Winifred Jordaan presented a report on the activities of the Consortium of WMO Education and Training Collaborating Partners (CONECT), highlighting its role as a formal mechanism supporting the WMO Global Campus initiative and complementing the work of the Capacity Development Panel.

She provided updates on activities undertaken since the previous session, including the third plenary meeting (CONECT-3), held in Florence, Italy, in November 2025 in conjunction with the CALMet-XVI Conference. The hybrid event brought together 167 participants and included sessions on topics such as the use of artificial intelligence in training, collaboration through a training “marketplace”, engagement of the next generation, and the empowerment of women in education and training. Additional activities included the 2025 CONECT webinar series focused on Basic Instruction Packages (BIP-M and BIP-MT), supporting knowledge exchange and implementation of updated guidance.

Dr Jordaan also highlighted areas requiring further discussion and support, including succession planning, strengthening engagement in CONECT activities, and maintaining active participation of members. She noted that collaboration with the Capacity Development Panel would be beneficial in advancing these areas.

In the discussion, members acknowledged the role of CONECT in facilitating collaboration and information exchange among education and training partners, and emphasized the importance of sustained engagement and alignment with the priorities of the Capacity Development Panel.

5 Progress reports by Expert Teams of EC-CDP

5.1 Progress report on activities of the Expert Team on Education, Policy, and Competency Frameworks (ET-EPC)

Dr Maria Mamaeva and Dr Somenath Dutta, Co-Chairs of the Expert Team on Education, Policy, and Competency Frameworks (ET-EPC), presented a progress report on the Team’s recent activities.

The ET-EPC reported on its support to the external review of Regional Training Centres (RTCs), including candidate visits conducted in Fiji and Ethiopia. Contributions were also made to the initial review of the description of the Capacity Development Programme and to the review and development of WMO competency frameworks, including input to the draft competency framework for volcanic ash forecasters and updates to the WMO Guide to Competency.

Further progress was reported on the preparation of case studies on the implementation of competency frameworks at the national level, with the Russian case in progress. The Team also contributed to the implementation of the WMO Gender Equality Plan through participation in

relevant events and ongoing work on mentoring initiatives and training resources related to gender equality.

In the discussion, members welcomed the progress made and emphasized the importance of continued coordination to ensure coherence between competency frameworks, education policies and broader capacity development activities.

Action 1 (EC-CDP-12): ET-EPC to prepare a template for documenting lessons learned from the development and implementation of national competency frameworks. The template is intended to be used in ET-EPC activities to share case studies and increase visibility among Members.

Actionee(s): ET-EPC

Deadline: EC-CDP-13

5.2 Progress report on activities of the Expert Team on Guidance and Oversight of Capacity Development Matters (ET-GO)

Ms Karen McCourt and Dr Albert Martis, Co-Chairs of the Expert Team on Guidance and Oversight of Capacity Development Matters (ET-GO), presented a progress report on activities, focusing on key priority deliverables and areas where Panel feedback was sought.

Updates were provided on its contributions to ongoing WMO initiatives, including support to the implementation of Business Continuity Management (BCM), which has progressed to early implementation, with further input from the Panel foreseen. Updates were also provided on volcanic ash capacity development, noting that, in line with its peer-review role, the Panel had no direct implementation responsibilities, while related competency frameworks were under review within the current agenda.

The Co-Chairs also reported on ongoing work related to “science to local impact”, identified as a broad area requiring coordinated action across WMO bodies. The main task for the current period, mapping and analysis of WMO training provision across WMO-related partners, was also presented, with the aim of identifying synergies, gaps and opportunities to inform future strategic and operational planning. Initial progress includes development of a concept note and early data collection, with noted dependencies on data availability and resourcing.

In the discussion, members emphasized the importance of maintaining a focused and manageable scope for the mapping exercise, and ensuring close coordination with the Secretariat and technical bodies to avoid duplication. Feedback was also sought on approaches to data collection and on advancing work related to science-to-local impact.

6 Capacity development support to key initiatives

6.1 WMO AI for weather activities and capacity development

Dr Véronique Bouchet presented an update on WMO activities related to Artificial Intelligence (AI) for weather and associated capacity development considerations.

She highlighted the rapid evolution of AI-based weather prediction models and the implications for National Meteorological and Hydrological Services (NMHSs), including impacts on infrastructure, workflows and workforce competencies. The need to support Members, particularly low- and middle-income countries, in adapting to these developments was emphasized.

Dr Bouchet outlined ongoing efforts to develop a structured approach to AI-related education and training, taking into account varying levels of AI readiness among Members. Possible elements include the curation of existing materials, development of targeted resources, and integration of AI-related considerations into relevant competency frameworks.

During the discussion, members stressed that increasing reliance on AI should not dilute core forecaster competencies, noting the continued importance of professional expertise for interpretation and oversight.

The importance of coordination with relevant WMO bodies, including the Joint Advisory Group on Artificial Intelligence (JAG-AI), was noted. The Panel was requested to designate a member to serve as Permanent Observer to JAG-AI.

Action 2 (EC-CDP-12): Panel members to consider volunteering to serve as Permanent Observer to the Joint Advisory Group on AI (JAG-AI), representing the Capacity Development Panel. Expressions of interest should be sent to the Secretariat (lveeck@wmo.int) with copy to the Acting-Chair (gulizia@cima.fcen.uba.ar)

Actionee(s): EC-CDP

Deadline: Expressions of interest by 25 February 2026

6.2 EW4All Pillar 2: Rapid Assessment and Country Hydromet Diagnostics

Ms Assia Alexieva, Chief of the Planning, Foresight and Performance Office, presented an update on Early Warnings for All (EW4All) Pillar 2, focusing on Rapid Assessments and Country Hydrometeorological Diagnostics.

She outlined the purpose and methodology of the Diagnostics, which aim to assess national hydrometeorological capacities, identify gaps across the value chain, and support prioritization of capacity development interventions and partner investments. She explained that the tools draw on three levels of data confidence: self-reported information provided by Members; verified data collected through structured interviews and consultations; and validated findings derived from peer-reviewed country diagnostics conducted through in-country missions.

In the discussion, members raised questions regarding methodology, stakeholder engagement, consistency across countries, and the avoidance of duplication with existing surveys and tools. Clarifications were provided on the consultative approach, use of standardized frameworks, and efforts to build on existing data sources. It was emphasized that the Diagnostics are intended to inform follow-up planning and resource mobilization.

The Panel took note of the update and the discussion.

6.3 Coordination on education and training activities

Ms Mingmei Li presented an update on education and training activities undertaken by the Division of Capacity Development (DCD) within the restructured Secretariat, noting that it now operates under the Department of Science, Services and Capacity Development through the Education and Fellowships Unit and the Training Activities Unit.

She outlined 2026 priorities requiring close coordination with the Panel, including support to EC-CDP sessions; designation and reassessment of Regional Training Centres (including recent assessment missions and recommendations to Executive Council-80); updates to qualification and competency frameworks and key ETR guidance publications; preparation of the quadrennial NMHS HR and training needs survey using enhanced data approaches; mapping of training needs to improve coherence and reduce duplication; guidance on fellowship partnerships and resource mobilization; and preparation of SYMET-15 (planned as a hybrid event), for which Panel guidance was requested.

Ms Li also presented the final draft of the Capacity Development Programme description, incorporating comments received since the previous session. The Panel was invited to provide guidance on SYMET-15 planning and to confirm the final draft of the programme description within seven working days following the session, prior to its submission to the Executive Council for review and approval.

Action 3 (EC-CDP-12): Panel members to conduct a final review of the refined description of the Capacity Development Programme and submit any final comments and suggestions, if required.

Actionee(s): EC-CDP

Deadline: Submit any final comments by 25 February 2026

Action 4 (EC-CDP-12): The Secretariat to explore the possibility of organizing SYMET-15 and CONECT-4 back-to-back and to contact the Chair of CONECT to confirm feasibility.

Actionee(s): Secretariat

Deadline: Mid-March 2026

7 Competencies and qualifications

Dr Gulizia briefly recalled the role of the Capacity Development Panel in reviewing and providing advice on competency frameworks and qualification standards, in accordance with its mandate and established procedures. She outlined the review process and timelines for frameworks submitted to the Panel.

7.1 Development of a new competency framework on Standards for Aeronautical Meteorological Personnel: Volcanic Ash Forecasters

Ms Stéphanie Wigniolle presented the proposed competency framework for volcanic ash forecasters, developed as part of the competency standards for aeronautical meteorological personnel.

She explained that the framework was developed to reflect evolving operational and regulatory requirements in aviation meteorology, particularly in response to ICAO qualification and competency obligations. The framework defines the knowledge, skills and performance criteria required of VAAC forecasters.

During the discussion, members raised questions regarding the scope of responsibilities of volcanic ash forecasters, including whether the issuance of volcanic ash warnings or alerts falls within the competency standard. Clarification was provided that the framework does not require forecasters to issue warnings, and it was suggested that the wording be adjusted to avoid potential ambiguity. It was agreed that a revised formulation would be circulated to the Panel for endorsement following the meeting.

Action 5 (EC-CDP-12): The Secretariat to coordinate with SC-AVI to incorporate the recommended revisions to the competency framework for volcanic ash forecasters, and to resubmit the revised text to the Panel for final review and recommendation.

Actionee(s): Secretariat and EC-CDP

Deadline: End of March 2026

The Panel took note of the framework and the proposed follow-up.

7.2 Renewal of BIP-H and BIP-HT

Dr Lucas Chamorro presented an update on the development of work for updates to the Basic Instruction Packages for Hydrologists (BIP-H) and Hydrological Technicians (BIP-HT). He noted that the process was initiated in May 2025, including a survey of Hydrological Advisers from WMO Members, which received 82 responses and provided key input to the structure and content of the BIPs and associated competency framework.

The development is being undertaken through a collaborative process involving representatives from SERCOM, INFCOM, Regional Training Centres and National Hydrological Services, under the leadership of the Capacity Development milestone of the Hydrology Standing Committee. The methodological approach follows that used for the meteorology BIPs and is aligned with WMO Publication No. 1083, emphasizing an outcomes-based educational structure.

Dr Chamorro reported that the task team is finalizing the first draft of the BIP-H and BIP-HT, which will initiate a consultation and review process. He also outlined that definitions of Hydrologist and Hydrological Technician are expected to be included in the Technical Regulations (WMO-No. 49, Vol. III), while the placement of the BIPs themselves, either within the Technical Regulations or in guidance material, remains under consideration.

In the discussion, members noted the planned timeline for consultation and review, and emphasized the importance of engagement with the Panel to provide feedback and support the development and endorsement process. It was agreed that efforts would be made to provide initial feedback within the proposed timeframe, while recognizing the need to ensure adequate time for substantive review.

The Panel took note of the update and the agreed review timeline.

7.3 Development of 2 new Frameworks: NWP skills and knowledge for operational meteorologists, and a Competency framework for personnel implementing high-resolution NWP systems

Mr Yuki Honda presented an update on the development of two new frameworks related to Numerical Weather Prediction (NWP), undertaken in response to Resolution 27 (Cg-19). He outlined that two complementary frameworks are being developed: a knowledge and skills framework for operational meteorologists using high-resolution NWP, and a competency framework for personnel implementing high-resolution NWP systems.

He explained that the development of these frameworks responds to the increasing operational reliance on NWP and the need to clarify the competencies required for both, operational users of NWP products and personnel responsible for implementing and maintaining high-resolution systems. The development is being led under the Infrastructure Commission through the Standing Committee on WIPPS, with a dedicated task team and contributions from Regional Training Centres across all regions. The process follows the WMO Guide to Competency and has included initial consultation with SERCOM and the Division of Capacity Development, with broader consultation planned across relevant WMO bodies.

The Panel was invited to provide initial feedback within the proposed timeline to support further refinement of the frameworks.

In the discussion, members welcomed the development of the frameworks and emphasized the importance of clearly defining roles, competency levels and scope to avoid overlap with existing standards. It was agreed that comments would be submitted through the established ET-EPC review mechanism within the indicated deadline.

7.4 Development of competency framework for impact-based forecasters

Mr Andrew Tupper presented an update on the development of a competency framework for impact-based forecasters.

He recalled that impact-based forecasting and warning services were incorporated into the amended WMO Technical Regulations for early warning services, and that the development of this framework aims to support Members in implementing these new requirements. The framework is intended to clarify the competencies required to transition from hazard-based forecasting towards impact-focused, user-oriented services.

Mr Tupper outlined the development process, including a dedicated workshop held in November 2025 in Exeter, United Kingdom, bringing together NMHS representatives, expert team members, trainers, humanitarian and disaster risk reduction organizations, and technical partners. The process included preparatory surveys, case study collection, and collaborative working sessions to define the building blocks of the framework. He informed the Panel that a draft of the framework is expected to be submitted for Panel review in the second half of the year.

In the discussion, members acknowledged the importance of the framework in the context of Early Warnings for All and welcomed the early awareness provided to the Panel.

7.5 Updates on the Satellite Skills and Knowledge for Operational Meteorologists

Ms Zoya Andreeva presented an update on the revised *Guidelines on Satellite Skills and Knowledge for Operational Meteorologists and Related Specialists*, which was previously published with the title “Satellite Skills and Knowledge for Operational Meteorologists”. She recalled that this framework was last reviewed in 2018, and that the current update reflects evolving operational needs and requests from VLab members, including the addition of new skills for climate and agrometeorological service specialists.

The development of the updated guidelines was carried out by the VLab Management Group, including contributions from Regional Training Centres and satellite operators. The process included consultation with the Education and Training Office and WMO Members, supported by correspondence and virtual information sessions held in November 2024.

Ms Andreeva informed the Panel that a final draft has been prepared and submitted for review. The Panel was invited to recommend that this enabling skills framework proceed to the technical review and approval process, with submission to INFCOM-4 planned for consideration in 2026.

In the discussion, members provided comments on the proposed updates and supported the progression of the framework through the approval process.

EC-CDP-12 Agreed conclusion 3: The Panel agreed that the updated satellite skills framework, now entitled *Satellite Skills for Operational Meteorologists and Specialists in Related Application Areas*, is consistent with the guidance provided in the *Guide to Competency* (WMO-No. 1205). The Panel recommended that the consultation process continue, with the relevant technical commission(s) undertaking the necessary revisions and subsequent endorsement, as appropriate.

7.6 Competency frameworks on “Instrumentation, calibration, meteorological observations, and observing Programme and network management”: Updates on 4 Frameworks and development of a new Framework for personnel performing hydrological observations

Mr Ercan Buyukbas presented updates on four competency frameworks related to instrumentation, calibration, meteorological observations, and observing programme and network management, as well as progress on the development of a new competency framework for personnel performing hydrological observations.

He explained that the updates aim to reflect evolving operational and regulatory requirements and to improve clarity and consistency across the different observation-related frameworks. In addition, the new competency framework for hydrological observations addresses the specific technical and operational requirements associated with hydrological measurements and data processing.

The development work is being carried out under the Infrastructure Commission by relevant expert teams, with ongoing consultation involving technical bodies and the Division of Capacity Development. Initial drafts of the updated frameworks and the new hydrological competency framework have been prepared, with further consultation planned with WMO bodies and Members prior to submission to INFCOM-4 for approval in 2026.

The Panel was invited to provide initial feedback on the scope, structure and consultation process, to support further refinement. In the discussion, members noted the number of frameworks under review and the associated timelines, and emphasized the importance of prioritizing comments to ensure timely processing.

After all frameworks were presented, a summary of requests together with a timeline for the expected reviews was presented by the Secretariat. The summary outlined the various frameworks submitted for initial feedback or final review and the corresponding deadlines for comments.

The Acting-Chair invited the Panel to confirm the proposed timeline, noting the number of documents under consideration and the importance of timely responses. It was agreed that feedback would be provided through the established ET-EPC online review mechanism within the indicated timeframes, with flexibility applied where necessary in light of members’ workload and voluntary contributions.

EC-CDP-12 Agreed conclusion 4: The Panel agreed to the proposed timeline for providing initial feedback and final reviews on the competency frameworks presented at EC-CDP-12. The Secretariat proposed a revised deadline of the end of April 2026 for the submission of initial feedback on the draft BIP-H and BIP-HT, which was agreed by the Panel.

8 Next Meetings and any other business

Ms Luciane Veeck (WMO Secretariat) provided the Panel with an overview of the planning timeline for upcoming meetings of the Executive Council Capacity Development Panel (EC-CDP). The Panel was reminded of the dates agreed for the next meeting in 2026 and was invited to consider and agree on the proposed date for the 2027 meeting.

- Thirteenth Meeting of the EC Capacity Development Panel (EC-CDP-13) – 22–25 September 2026, Geneva, Switzerland.
- Fourteenth Meeting of the EC Capacity Development Panel (EC-CDP-14) – 15-16 February 2027, Online.

9 Closure of EC-CDP-12

In her closing remarks, Dr Carla Gulizia, Acting-Chair of the Executive Council Capacity Development Panel, expressed her appreciation to all Panel members, presenters and Secretariat colleagues for their active engagement and constructive contributions throughout the meeting.

She acknowledged the significant volume of competency frameworks and initiatives reviewed during the session and thanked members for their continued commitment to providing timely and substantive feedback, despite competing professional responsibilities.

Dr Gulizia emphasized the critical role of the Panel in ensuring coherence, quality and strategic alignment of capacity development activities across WMO, particularly in light of evolving technological developments and the growing demands on Members.

She also thanked the Secretariat for its coordination and support in organizing the meeting and facilitating the review processes.

The twelfth meeting of the Executive Council Capacity Development Panel (EC-CDP-12) was formally closed.

ANNEXES

Annex-I List of Participants EC-CDP-12

CDP Members:

Mr John Ogren
Dr Somenath Dutta
Dr Carla Gulizia
Dr Winifred Jordaan
Ms Karen McCourt
Ms Jennifer Milton
Prof. Mary Scholes
Dr Albert Martis
Dr Maria Mamaeva
Dr Ardhasena Sopaheluwakan
Dr Toky Nandrasana Ramanakoto
Mr Evan Thompson
Dr Lucas Chamorro
Mr Daouda Konate – Excused. Nominated alternate and advisor
Prof. Dwikorita Karnawati - Excused. Nominated alternate
Dr David Farrell - Excused. Nominated alternate
Mr Volkan Coşkun - Nominated advisors
Dr YU Yubin - Nominated advisors

NOTE: Excuse notes were received from Mr Daouda Konate, Prof. Dwikorita Karnawati, and Dr David Farrell, who were unable to attend the meeting and designated alternates to represent them. Mr Volkan Coşkun and Dr YU Yubin were also unable to attend and appointed advisers to participate on their behalf.

Alternates and Advisors:

Mr Ferdinand Eklou - Advisor to Mr Daouda Konate
Ms Anni Arumsari – Alternate to Prof. Karnawati
Mr Bagus Rachmat Rievan and Ms Evi Rumondang – Advisors to Prof. Karnawati
Ms Kathy-Ann Caesar – Alternate to Dr David Farrell
Mr Murat Altinyollar, Ms. Nur Söğütçüklü, and Ms Merve Senol – Advisors to Mr Volkan Coşkun
Ms CHEN Siyu and Mr WANG Yujing – Advisors to Dr YU Yubin

WMO Secretariat:

Ko Barrett, DSG
Véronique Bouchet, SD/SSCD
Mingmei Li, D/CD
Annick Champagne, Education & Fellowships Unit/CD/SSCD
Leah Yeddes, Education & Fellowships Unit/CD/SSCD
Mustafa Adiguzel, Training Activities Unit/CD/SSCD
Luciane Veeck, Training Activities Unit/CD/SSCD
Yuliana Purwanti, Training Activities Unit/CD/SSCD
Eunjin Choi, Training Activities Unit/CD/SSCD
Assia Alexieva, PFP Office
Anais Bellalouna, PFP Office
Stefano Belfiore, GBS
Giacomo Teruggi, GBS
Sarah Natalie Burke, GBS
Lauren Stuart, DSG Office

Liye Li, SSCD
Stéphanie Wigniolle, MAS Section/MSS/SSCD
Adriana Oskarsson, MAS Section/MSS/SSCD
Yuki Honda, WIPPS Section/DPS/ESDP
Eunha Lim, WIPPS Section/DPS/ESDP
Zoya Andreeva, SPC Section/WIGOS/ESDP
Andrew Tupper, EWS Section/MSS/SSCD
Dominique Berod, HMDM Section/Hydro/ESDP
Silvana Alcoz, HMF Section/Hydro/ESDP
Nirina Ravalitera, HMF Section/Hydro/ESDP
Rokhaya Ba, HMDM Section/Hydro/ESDP
Ercan Buyukbas, MINT Section/WIGOS/ESDP
Champika Gallage, OCE/WIGOS/ESDP

Annex-II Agreed conclusions and actions from EC-CDP-12

The EC-CDP-12 agreed on the following conclusions:

EC-CDP-12 Agreed conclusion 1: The Panel agreed to invite ad hoc members to form a Task Team to work on activities promoting the WMO Capacity Development Framework. This decision is connected to Action 7 of EC-CDP-10. The Task Team will be led by Dr Carla Gulizia. **(Agenda item 2.2)**

EC-CDP-12 Agreed conclusion 2: The Panel agreed not to fill the vacant seat on the Panel. **(Agenda item 2.3)**

EC-CDP-12 Agreed conclusion 3: The Panel agreed that the updated satellite skills framework, now entitled Satellite Skills for Operational Meteorologists and Specialists in Related Application Areas, is consistent with the guidance provided in the Guide to Competency (WMO-No. 1205). The Panel recommended that the consultation process continue, with the relevant technical commission(s) undertaking the necessary revisions and subsequent endorsement, as appropriate. **(Agenda item 7.5)**

EC-CDP-12 Agreed conclusion 4: The Panel agreed to the proposed timeline for providing initial feedback and final reviews on the competency frameworks presented at EC-CDP-12. The Secretariat proposed a revised deadline of the end of April 2026 for the submission of initial feedback on the draft BIP-H and BIP-HT, which was agreed by the Panel. **(Agenda item 7)**

The EC-CDP-12 agreed on the following actions:

Action 1 (EC-CDP-12): ET-EPC to prepare a template for documenting lessons learned from the development and implementation of national competency frameworks. The template is intended to be used in ET-EPC activities to share case studies and increase visibility among Members. **(Agenda item 5.1)**

Actionee(s): ET-EPC

Deadline: EC-CDP-13

Action 2 (EC-CDP-12): Panel members to consider volunteering to serve as Permanent Observer to the Joint Advisory Group on AI (JAG-AI), representing the Capacity Development Panel. Expressions of interest should be sent to the Secretariat (lveeck@wmo.int) with copy to the Acting-Chair (gulizia@cima.fcen.uba.ar)

(Agenda item 6.1)

Actionee(s): EC-CDP

Deadline: Expressions of interest by 25 February 2026

Action 3 (EC-CDP-12): Panel members to conduct a final review of the refined description of the Capacity Development Programme and submit any final comments and suggestions, if required. **(Agenda item 6.3)**

Actionee(s): EC-CDP

Deadline: Submit any final comments by 25 February 2026

Action 4 (EC-CDP-12): The Secretariat to explore the possibility of organizing SYMET-15 and CONECT-4 back-to-back and to contact the Chair of CONECT to confirm feasibility. **(Agenda item 6.3)**

Actionee(s): Secretariat

Deadline: Mid-March 2026

Action 5 (EC-CDP-12): The Secretariat to coordinate with SC-AVI to incorporate the recommended revisions to the competency framework for volcanic ash forecasters, and to resubmit the revised text to the Panel for final review and recommendation. **(Agenda item 7.1)**

Actionee(s): Secretariat and EC-CDP

Deadline: End of March 2026