

World Meteorological Congress

Abridged Final Report of the Eighteenth Session

Geneva

3–14 June 2019

Resolution 71 (Cg-18)

THE EDUCATION AND TRAINING PROGRAMME AND DELIVERY MECHANISM

THE WORLD METEOROLOGICAL CONGRESS,

Recalling Resolution 51 (Cg-17) on the WMO Education and Training Programme;

Noting the outcome of the Thirteenth World Meteorological Organization (WMO) Symposium on Education and Training (SYMET-13), 29 to 31 October 2017, Needham's Point St. Michael, Bridgetown, Barbados [see [Cg-18/INF. 8.2](#)];

Considering:

- (1) The capacity development strategic objective in the WMO Strategic Plan,
- (2) That the availability of competent experts and viable institutions on meteorology, hydrology, climatology and related disciplines is fundamental for capacity development of National Meteorological and Hydrological Services (NMHSs),
- (3) That NMHSs of many Members, particularly Least Developed Countries (LDCs) and Small Island Developing States (SIDS) are still in need of support to establish and sustain a critical mass of human resources in order to deliver quality services,
- (4) That scientific research is critical to the development of education and training capacity in meteorological, hydrological and climatological sciences both in terms of content and delivery methodology,
- (5) That specialized training is a prerequisite for putting NMHSs and allied national institutions in an appropriate position to support current and future national and international social and economic activities,

Decides that:

- (1) The major focus and strategy of the ETR Programme should continue to be directed towards the development of qualified and competent NMHS staff to ensure the availability of quality education and training opportunities in collaboration with education and training providers at national and international levels, particularly Regional Training Centres (RTCs) and other allied institutions;
- (2) Leadership and management development in NMHSs should be given prominent attention in the development and implementation of the Programme;
- (3) The Programme should continue to leverage available resources from relevant stakeholders to complement those available in the WMO Regular Budget as a way of meeting the increasing demand for education and training opportunities;

Urges Members:

- (1) To collaborate in, and give required support to the implementation of the WMO education and training activities, in particular by sharing national education and training opportunities, resources and expertise with other Members;
- (2) To strengthen their national capacity in the attainment of self-sufficiency in meeting their education and training needs;
- (3) To encourage the participation of women in education and training programmes in order to reduce the gender gap;

Requests the Executive Council:

- (1) To take all necessary actions to enable the Programme to meet its objectives under the WMO Strategic Plan;
- (2) To work with stakeholders in promoting research and development as a major activity of meteorological and hydrological training institutions and to promote the uptake of

scientific developments in areas such as climate change, air quality and numerical weather prediction into education and training curricula;

Requests the Secretary-General:

- (1) To support education and training activities as a major component of WMO capacity development endeavours;
- (2) To continue to collaborate with development partners and training providers regarding the development of the required human resource capacity of Members through formal and continuing education;
- (3) To develop the competency requirements of leadership and management of NMHSs as resources allow;
- (4) To support the incorporation of education and training components in bilateral and multilateral cooperation projects;
- (5) To promote the exchange of knowledge and expertise on education and training issues between interested stakeholders, inter alia, through volunteerism;
- (6) To work with stakeholders in promoting research and development as a major activity of meteorological and hydrological training institutions and to promote the uptake of scientific developments in areas such as climate change, air quality and numerical weather prediction into education and training curricula;
- (7) To continue to work in close collaboration with WMO constituent bodies in the development and delivery of its Education and Training Programme.

Resolution 72 (Cg-18)

THE WMO GLOBAL CAMPUS INITIATIVE

THE WORLD METEOROLOGICAL CONGRESS,

Recalling Resolution 53 (Cg-17) – WMO Global Campus Feasibility Study – to continue the feasibility study initially agreed by the Executive Council at its sixty-sixth session, and requesting a formal proposal to be considered at the Eighteenth World Meteorological Congress,

Noting:

- (1) Resolution 16 (EC-66) – Feasibility Study for Establishing a WMO Global Campus – decision that the EC Panel of Experts on Education and Training should proceed with a feasibility study on the WMO Global Campus,
- (2) Decision 48 (EC-70) – Education and Training – decision to endorse the WMO Global Campus initiative,

Noting also [See [Cg-18/INF. 8.2](#)]:

- (1) The strong endorsement of the 2017 Symposium on Education and Training (SYMET-13), and the recommendation of the EC Panel of Experts on Education and Training,

- (2) Outcomes of the November 2018 meeting on the WMO Global Campus Initiative, including strong support from universities interested in advancing meteorological education and in the fields of weather, water and climate,
- (3) The 2019 Status Report on the WMO Global Campus Feasibility Study,

Noting with satisfaction the significant progress demonstrated by the feasibility study, including new tools and collaboration opportunities for WMO Regional Training Centres and other WMO Education and Training Programme partners,

Mindful of Resolution 16 (EC-66) which decided that a proposal for a WMO Global Campus must not undermine the purpose and programmes of the network of WMO Regional Training Centres (RTCs), which are operated by Members for the benefit of the wider meteorological community,

Having examined the WMO Global Campus Roadmap and other information and tools available on the WMO Learn website (<https://public.wmo.int/en/resources/training/wmolearn>),

Decides to endorse the WMO Global Campus for developing a coordinated and collaborative network of institutions that work together to meet the growing education and training needs of WMO Members, building upon the existing network of WMO Regional Training Centres (RTCs) and other educational and training institutions partnering with the WMO Education and Training Programme;

Urges Members:

- (1) To take an active role in the WMO Global Campus by forming regional and global collaborations, and by sharing learning resources, infrastructure, and other appropriate support as possible to further the goals of meeting the education and training needs of all WMO Members;
- (2) To promote the exchange of best practices and expertise between interested stakeholders on projects contributing to and benefiting from the WMO Global Campus;
- (3) To make available experts as volunteers to support the activities of the Global Campus;

Requests the Secretary-General:

- (1) To provide dedicated support for the coordination of the activities of the WMO Global Campus within the Secretariat;
- (2) To monitor progress and provide updates as appropriate on WMO Global Campus activities at WMO Constituent Body Meetings.

Note: This resolution replaces Resolution 53 (Cg-17), which is no longer in force.

Resolution 73 (Cg-18)

STRENGTHENING THE CAPACITY OF MEMBERS IN SERVICE DELIVERY

THE WORLD METEOROLOGICAL CONGRESS,

Recalling competency requirements for those working in aviation, climate, public weather, and marine services (see Resolutions 4, 6, 8 (Cg-17), Resolution 5 (EC-68), as well as ongoing revisions and additions to standards and guidance material regarding agricultural meteorology services),

Concerned by the increasing impact and frequency of severe weather and associated hazards affecting a growing global population (especially mega-cities) in a changing climate,

Acknowledging the recognized gaps in service delivery, as shown in the recent surveys

[Status of Human Resources in National Meteorological and Hydrological Services - ETR-No.21; WMO Survey of National Marine and Coastal Services (2018) – see Resolution 29 and Cg-18/INF 8.2; Assessment of the Coastal Inundation Demonstration Forecasting Project (2018) – see Resolution 15; Outcomes of the WMO 2018 Urban Survey; Survey on Service Delivery (2015), and Outcomes of the 2016-2017 Global Survey on Aeronautical Meteorological Service Provision, AeM Series No. 1],

Requests the Executive Council with the support of the Technical Coordination Committee (TCC), the Capacity Development Panel, and relevant technical commissions to:

- (1) Analyse Members' competency assessments through the WMO Community Platform (Country Profile Database) and prioritise interventions;
- (2) Develop training and other capacity development initiatives to address gaps in Members' ability to deliver services; and
- (3) Address the necessary implementation measures for these initiatives;

Requests Members to support these training and capacity development initiatives in line with WMO technical regulations, guides, and competency requirements *[see example Training Initiative in Marine Meteorological Service Delivery, Cg-18/INF. 8.2]*, in collaboration with relevant partners (e.g. through the provision of experts and other resources);

Further requests Members to refer to the Guide to Competency (WMO-No. 1205);

Encourages Members to provide their staff with opportunities to participate in training on service delivery.
