



World Meteorological Organization

EC PANEL OF EXPERTS ON  
EDUCATION AND TRAINING

Twenty-Eighth Session  
Nairobi, Kenya, 17 to 19 April 2018

PAN-28/Doc. 2

Submitted by:  
Secretary-General  
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English  
**DRAFT 1**

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**AGENDA ITEM 2 : DISCUSSIONS ON EDUCATION AND TRAINING  
PROGRAMME**

**DISCUSSIONS ON EDUCATION AND TRAINING PROGRAMME  
PRIORITIES AND CHANGING ORGANIZATIONAL CONTEXT**

**THE PANEL ARE INVITED TO:**

- (a) Review the actions from the 27<sup>th</sup> Session of the Panel;
- (b) Propose any further follow-up actions as appropriate taking into consideration the major decisions / recommendations of Congress and Executive Council when making recommendations during this session;
- (c) Make recommendations on regional and global priorities on education and training in the light of new and emerging socio-economic, technological, scientific and other societal issues
- (d) Make recommendations on governance of education and training programme within the framework of overall capacity development activities of the Organization and considering the ongoing reform of WMO

## ITEMS FOR DISCUSSION :

### 2.1 Status of Panel-27 Actions<sup>1</sup>

Under this agenda item, action items from the last session of the Panel, status and any follow-up actions required will be discussed. Some issues are expected to arise which may be deferred for discussion under relevant, subsequent agenda items, during the Session. The status of the actions are contained in the summary of the table attached to this document.

### 2.2 Major Outcomes of Executive Council and Congress<sup>2</sup>

The Panel will consider the outcomes of Cg and EC in the context of programme activities since the last session of the Panel. The relevant aspects will be highlighted in preparation for future programme development. The attached table of Resolutions and Decisions with the actions taken and pending elucidates this agenda item.

### 2.3 Education and Training Programme Priorities <sup>3</sup>

The 2017 WMO Education and Training survey on human resources requirements of NMHSs reveals a growing deficit in the capability and numbers of adequately educated and trained staff required to provide meteorological, climatological and hydrological services in many countries and territories. Recommendations from the Thirteenth WMO Symposium on Education and Training and the meeting of Directors of WMO Regional Training Centres also identified key issues that are pertinent to development of human resources in NMHSs. It is also important to note that the rapid advances in scientific innovation and technological developments require corresponding continuous training of NMHS personnel. Furthermore, the research capability of the current and future generations needs to be developed as a critical part of a robust training programme. Contemporary issues driving change within the wider education and training sector of society include various international and national initiatives and commitments to address global issues related to natural disasters and environmental including the Paris Agreement, the 2030 Agenda for Sustainable Development, the SIDS Accelerated Modality for Action (SAMOA) Pathway and the Sendai Framework for Disaster Risk Reduction. WMO needs to support NMHSs to provide the range of services required to address these issues through appropriate education and training programmes. These issues should be addressed through the ETRP by cooperating with the NMHSs of Member States in developing staff with the qualifications and competencies (knowledge, skills and behaviours) required by the WMO Technical Regulations to deliver the meteorological, hydrological and related services mandated by their Governments; this

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<sup>1</sup> **Reference:**

[Status on Actions resulting from EC Panel 27](#)

<sup>2</sup> **References:**

[Table](#) of ETR Related EC and Congress Resolutions and Decisions (2104-2017)

[Compilation](#) of ETR Related EC and Congress Resolutions and Decisions (2014-2017)

[PowerPoint Presentation](#) of EC and Cg Decisions and Resolutions

<sup>3</sup> **Reference:**

Decision 54 (EC-69) on "[Identification of Priorities for Education and Training](#)"

can also help the NMHSs meet their international obligations. The cooperation with Members to address these issues will also facilitate the process of reducing the gap that exists between developed and developing countries, particularly from education and training perspective.

Based on the above narrative, which guides the input to 2020 – 2023 programme narrative, and Decision 54 (EC-69), the Panel may wish to discuss how education and training will key into the WMO future programme priorities and ensuring activities.

## **2.4 Outcomes of the Thirteenth WMO Symposium on Education and Training and Meeting of Directors of WMO Regional Training Centres<sup>4</sup>**

The Thirteenth WMO Symposium on Education and Training (SYMET-13) was held from Monday, 30 October to 1 November 2017 followed by the meeting of the Directors of WMO Regional Training Centres (RTCs) on 2 November in Bridgetown, Barbados.

In line with its general goal which was to stimulate and facilitate the development of a vibrant and robust education and training capacity within the worldwide meteorological and hydrological community and to recommend possible new avenues for development, the Symposium focused on the Education and Training for Human Resource Development in Meteorological and Hydrological Services. SYMET-13 participants inter alia called for support and action at national, regional and global levels to support WMO and its National Meteorological and Hydrological Services develop and deliver improved services to the Member States by the provision of adequate facilities and resources for education and training in weather, water and climate related fields.

The one-day WMO RTC Directors Meeting, was designed to build upon the results of SYMET-13, consider the business of RTCs, development goals specific to the WMO RTC network, and other work and decisions for increasing the visibility and capacity of this network. Holding SYMET-13 back-to-back with this meeting also provided added advantage of increased input from a larger group more experts who are not Directors or Heads of Regional Training Centres.

More details are contained in the reference documents

## **2.5 Changing Organizational Context and Implications for Education and Training<sup>5</sup>**

Under this agenda item we will discuss the proposed reform in WMO, which is expected to affect the structure of the Organization and consider ongoing changes as regards increasing emphasis on regionalization of programmes, particularly in the context of how it may affect the role and functions of the RTCs and other training partners. Issues such

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### **<sup>4</sup> Reference:**

Outcomes of the SYMET-XIII and Meeting of Directors of WMO RTCs, Bridgetown, Barbados, 30 October-2 November 2017 ([Ar](#), [En](#), [Es](#), [Fr](#), [Ru](#), [Zh](#))  
[An International Agenda](#) for Education and Training in Meteorology and Hydrology

### **<sup>5</sup> Reference**

**DRAFT** [Strategic Plan 2020-2023](#)  
[WMO Reform](#)  
[EC WG-SOP 2018-1 - Decisions & Recommendations FULL](#)

as the future role of the EC Panel on ETR and the EC WG on Capacity Development in future capacity development strategies, and eventually in the emerging structure will be considered. Programmatic matters such as training collaboration with the private sector and training of NMHSs on private sector issues, identification of new training approaches and products, and identification of key directions for ETRP in the context of all these developments should also be taken into consideration. The present edition of the WMO Strategic Plan could assist in the discussion.