WMO OMM



World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация

| 山道山 | 山山山 | 山山山 | 山山山 | 山山山 | 山山山 | 山山 | 山山 | 山山 | 山山 | 山山 | 山東

Secrétariat

7 bis, avenue de la Paix – Case postale 2300 CH 1211 Genève 2 – Suisse Tél.: +41 (0) 22 730 81 11 Fax: +41 (0) 22 730 81 81

wmo@wmo.int - public.wmo.int

23 August 2019

Our ref.: 22341/2019/ETR/SEM-519

Annexes: 3 (Annex I available in English only)

Subject: Invitation to the Meeting of the Directors of WMO Regional Training

Centres (RTCs) in Region I, to be held in Cairo, Egypt, from 28 October to

1 November 2019

Action required: Submit application by 2 September 2019

Dear Sir/Madam,

I am pleased to inform you that the World Meteorological Organization (WMO) Education and Training Office (ETR) will be hosting a meeting of the Directors of all WMO Regional Training Centres (RTCs) in Regional I and Allied Training Partners working in the region, from 28 October to 1 November 2019. This meeting is being hosted by the Egyptian Meteorological Authority (EMA) and the WMO RTC in Cairo, Egypt. The purpose of this meeting is to explore opportunities for increased collaboration and support in serving WMO Members within the framework of the WMO Global Campus.

This meeting is being conducted in response to recommendations of the Thirteenth Symposium on Education and Training, which require implementation decisions, particularly for RA I. The draft Agenda is included in Annex I. The ETR is requesting input to the various aspects of the agenda, and will be asking for advance preparation prior to the meeting to contribute to its success.

One particularly important aspect of the SYMET outcomes relates to further development and implementation of the WMO Global Campus initiative in Africa, including increased university collaboration. In addition to these agenda items, the meeting will also include a review of outcomes of the 18th WMO Congress and 71st Executive Council and the implications for and opportunities they bring to RTCs (See Annexes II and III).

The final outcomes of the meeting will include concrete proposals, such as follow-up actions and working arrangements, for WMO Global Campus activities to be implemented in the region. For this reason, we are seeking the involvement of all key partners involved in human resources capacity development in the region.

I am pleased to invite you or a member of your training management team to attend this important meeting. The WMO ETR Office would appreciate receiving your response by **2 September 2019** indicating who will attend the meeting. A Request for Financial Assistance form will be provided for your completion upon receipt of your acceptance.

Yours faithfully,

(W. Zhang) for the Secretary-General

DRAFT AGENDA

Meeting of Directors of WMO RTCs in RA I, WMO Global Campus, Review of University Collaboration, SYMET-13 Implementation, and WMO Congress and EC Outcomes

(Cairo, Egypt, 28 October-1 November 2019)

Invited participants:

RA I RTCs (Algeria, Angola, Kenya, Madagascar, Niger, Nigeria, South Africa), additional training partners including VLab Centre of Excellence in Morocco, AEMET, CMA, ECMWF, EUMETSAT, IBE-CNR, Met Office College, Météo-France, NOAA-NWS, NUIST-Nanjing, UCAR, University of Reading.

Day 1:

- 1. Opening session: Meeting goals and agenda review;
- 2. Presentation on the WMO education and training programme, particularly vis-à-vis RTCs, the development of training capacity in the region, and working with collaborating partners;
- 3. Review of the roles and operation of RTCs;
- 4. Discussion regarding the roles of RTCs and the challenging nature of the associated responsibilities.

Day 2:

- 5. Presentation on the outcomes of the 18th World Meteorological Congress (Cg-18) and the WMO 71st Executive Council (EC-71);
- 6. Discussion on the outcomes of Cg-18 and EC-71 and their impacts, challenges and opportunities for RTCs and partners;
- 7. Discussion on how to get RTCs more involved in WMO activities and other multilateral projects on capacity development;
- 8. Review of the Thirteenth Symposium on Education and Training (SYMET-13) and its outcomes:
- 9. Discussion on the outcomes of SYMET-13 (and on implementation steps);
- 10. Presentations from each of the RA I RTCs and external collaborating partners in attendance What are your key strengths? What can you offer other RTCs? (Emphasis on RA I). How could you benefit from other RTCs?

Day 3:

- 11. Continued presentations from RTCs and collaborating partners;
- 12. Summary of the strengths, offerings, and benefits of collaboration arising from the presentations;
- 13. Presentation on the WMO Global Campus concept, goals and activities;
- 14. Presentation on the WMO Global Campus university collaboration opportunities;
- 15. Discussion on Global Campus activities globally, and the benefits of the WMO Global Campus for the region, including specific actions for concrete collaboration, including university collaboration.

Day 4:

- 16. Identification of collaboration opportunities for RA I RTCs and external partners;
- 17. Selection of most promising and beneficial collaboration opportunities;
- 18. Development of designs and implementation plans for collaborative opportunities.

Day 5:

- 19. Continued development of plans for collaborative opportunities;
- 20. Presentation of plans for discussion and revision;
- 21. Setting of milestones and the establishment of ongoing working arrangements;
- 22. Final conclusions and recommendations;
- 23. Closure.

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 WMOLearn 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 though 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.

Resolution 7 (EC-71)

CAPACITY DEVELOPMENT PANEL

THE EXECUTIVE COUNCIL,

Noting:

- (1) Resolution 71 (Cg-18) The Education and Training Programme and delivery mechanism,
- (2) Resolution 72 (Cg-18) The WMO Global Campus Initiative,
- (3) Resolution 74 (Cg-18) Closing the capacity gap: scaling up effective partnerships for investments in sustainable and cost-efficient infrastructure and service delivery,
- (4) Resolution 80 (Cg-18) Geneva Declaration 2019: Building Community for Weather, Climate and Water Actions,
- (5) Resolution 50 (Cg-17) Capacity Development Programme,
- (6) Resolution 51 (Cg-17) WMO Education and Training Programme,
- (7) Resolution 18 (EC-64) and Resolution 16 (EC-65) WMO Strategy for Capacity Development and Capacity Development Implementation Plan,
- (8) Resolution 9 (EC-68) Update to the Terms of Reference of the Executive Council Panel of Experts on Education and Training,
- (9) Resolution 4 (EC-67) Terms of Reference of the Executive Council Panel on Capacity Development,

Considering that closing the gap in National Meteorological and Hydrological Services' capacity is one of the Long-term Goals of the 2020-2023 Strategic and Operating Plan, capacity development is therefore a major cross-cutting activity of WMO, including the work of all constituent bodies, enhancing the knowledge and expertise of NMHSs and improving the quality of products and services delivered to users,

"Goal 4 of the WMO Strategic Plan, Close the capacity gap on weather, climate, hydrological and related environmental services: Enhancing service delivery capacity of developing countries to ensure availability of essential information and services needed by governments, economic sectors and citizens"

Taking into account the need to maximize collective efforts across the WMO and development partners,

Decides,

- (1) To establish a Capacity Development Panel;
- (2) To agree on the Terms of Reference for the Panel (as contained in the annex to this resolution);

Invites Members to continue to support all capacity development initiatives of WMO;

Urges Members to enable their relevant experts to contribute to WMO activities on capacity development;

Also urges Members to avail of resources, financial and in-kind, in support of capacity development activities;

Requests the Secretary-General to provide Members with timely and comprehensive reference material of the Country Support Initiative to further clarify the practical implementation, including further refinement of the respective roles and responsibilities of stakeholders as referenced in Cg-18/INF. 8.3, and provide examples of its application for Members' familiarization with the Initiative.

Note: This resolution replaces:

- (1) Resolution 9 (EC-68) Update of the Terms of Reference of the Executive Council Panel of Experts on Education and Training,
- (2) Resolution 4 (EC-67) Terms of Reference of the Executive Council Panel on Capacity Development.

Annex to Resolution 7 (EC-71)

TERMS OF REFERENCE OF THE EXECUTIVE COUNCIL CAPACITY DEVELOPMENT PANEL

1. Terms of Reference

The Panel will be responsible to the Executive Council through the Technical Coordination Committee and the Policy Advisory Committee. It will monitor the priorities of, and activities under, the WMO Strategic Plan, the WMO Capacity Development Strategy and WMO Gender Equality Policy, including institutional, infrastructural, procedural and human resources capacity development specifically:

- (i) Identify policy-related gaps in the capacity of NMHSs to exchange data, to deliver adequate services, to comply with WMO Standards and recommended practices, bearing in mind the Geneva Declaration 2019,
- (ii) Provide guidance and oversight regarding WMO efforts to strengthen assistance to the NMHSs of developing countries. Guidance could be along the lines enumerated in the annex to these Terms of Reference,
- (iii) Review education and training policies, qualification and competency standards, Regional Training Centre assessments, and WMO Global Campus activities,
- (iv) Identify training needs and give guidance on how to strengthen the capacity of training institutions, as well as recommend training activities to address gaps in formal and continuing education,
- (v) Oversee and guide the implementation of the tasks of the Executive Council according to Resolution 74 (Cg-18). In particular, ensure that WMO activities that support capacity development, including the Country Support Initiative and VCP, as well as WMO-related CREWS activities, are complementary and take into consideration the unique national context of Members.
- (vi) Review and analyse gaps in the WMO Gender Equality Action Plan and provide guidance regarding WMO efforts in gender equality.
- (vii) Provide reports and recommendations on WMO capacity development to the Policy Advisory and Technical Coordination Committees for consideration by the EC.
- (viii) Take into account the work of the technical commissions and other subsidiary bodies of the Executive Council as it pertains to capacity development.

2. Composition

- (i) The Panel will be chaired either by a Vice-President of the Organization or a designated member of the Executive Council. If the Chair cannot attend a session of the Panel, she/he will appoint a Panel member to chair the session in her/his absence,
- (ii) In addition to the Chair, the Panel will consist of a maximum of twelve core members, each of whom will sit in a personal capacity,
- (iii) A representative of presidents of regional associations and a representative of WMO Regional Training Centres will be in the composition and appointed by the Executive Council,
- (iv) The remaining ten core members will be appointed by the Executive Council, based on the nominations of Permanent Representatives, on the basis of their professional expertise in institutional infrastructural, procedural and human resources capacity development in the fields of meteorology, climatology, hydrology, institutional, legal and education and training matters, taking into account the need for the Panel to be balanced across the different components of capacity development to have an appropriate technical, geographical and gender balance in considering the most highly qualified candidates, using the process described in section 3,
- (v) The Chair of the Panel will invite representatives of funding and development agencies including official development agencies, regional and subregional economic commissions, the World Bank, regional development banks and experts and representatives of stakeholder communities in capacity development to participate in the work of the Panel, as appropriate,
- (vi) In addition to acting in a personal capacity, Panel members will be expected to maintain regular contact with technical commissions to promote cross-cutting coordination and information exchange,
- (vii) Members will normally serve for a period of four years.

3. Process for appointment of members

In addition to the Panel members appointed by the Executive Council as described in 2. above, ten Panel members will be appointed by the Executive Council through a transparent process as follows:

- (i) The Secretary-General will write to Members, with copy to Hydrological Advisers and the presidents of regional associations and technical commissions, advising them of the opportunity to nominate one person with appropriate skills for consideration by the Executive Council for the EC Capacity Development Panel,
- (ii) The Secretary-General will review the qualifications and submit a prioritized list of candidates to the Executive Council (or to the President of WMO in the inter-sessional period),
- (iii) The Council (or the President on behalf of the Council in accordance with General Regulation 9) will appoint members of the Panel from the list of candidates compiled by the Secretary-General. The Council will authorize the President to fill any positions that fall vacant during the intersessional period using the list approved by EC.

Working procedures

The Panel will:

(a) Normally meet every year;

(b) Make effective use of electronic forms for coordination and collaboration.

Annex to the Terms of Reference of the Executive Council Panel on Capacity Development

The Panel could, inter alia, provide guidance to WMO along the following lines:

- (i) Mechanisms to enhance the collection and sharing of up-to-date information relating to the development of NMHSs (e.g. CPDB/Extranet, surveys, national assessments, ...);
- (ii) Actions taken to build on existing capacities of NMHSs in developing countries, such as:
 - a. The facilitation of twinning arrangements and other innovative bilateral cooperation,
 - b. Strategies to leverage UN system and other development partner initiatives,
 - c. Advocacy efforts to governments, end-users, decision-makers on the socioeconomic benefits of investments in NMHSs,
 - d. Assistance to NMHSs to incorporate WMO and national requirements into national policy, legislative frameworks and national development plans,
 - e. Efforts to increase training and long-term education for developing countries,
 - f. Efforts to develop, implement, monitor and evaluate projects,
 - g. Promotion of principles for global meteorology, hydrology and climatology including authoritative voice, common standards, data and product sharing,
 - h. Review the activities of the technical commissions and regional associations aimed at developing, communicating and assisting NMHSs in developing countries to comply with WMO standards and recommended practices.
