

**WMO OMM**

World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

Secrétariat

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Ref.: 16081/2021-23 MS/ETR

Our ref.: 16081/2021/MS/ETR/HR

16 July 2021

Annex: 1 (available in English only)

Subject: Update of database for improved understanding of the status of human resources and development of competencies in National Meteorological and Hydrological Services (NMHSs)

Action required: Response before **30 August 2021**

Dear Sir/Madam,

I wish to refer to [Resolution 71 \(Cg-18\)](#) - the Education and Training Programme and Delivery Mechanism, regarding the development of the required human resource capacity of Members through formal and continuing education, and the need to strengthen national capacity in the attainment of self-sufficiency in meeting education and training needs.

In order to determine the nature and extent of collaboration with all members on education and training matters, the Secretariat is augmenting the existing database on human resource status of National Meteorological and Hydrological Services (NMHSs) which was last updated in 2017 and published as [Status of Human Resources in National Meteorological and Hydrological Services](#) (ETR-21, 2017). The exercise will also assist in enriching the World Meteorological Organization (WMO) Community Platform for coordination of information towards a better understanding of the capacity development needs of NMHSs in areas of service delivery, as requested by [Decision 12 \(EC-72\)](#) - Recommendations for Revision of the WMO Capacity Development Strategy. Very importantly, the updated database will assist Members and the Secretariat alike with the implementation of the WMO reform from the perspective of human capacity development.

Consequently, it would be appreciated if you could provide the required information on the status of human resources in your Service, by completing the electronic form through the [STAFF, COMPETENCIES AND QUALIFICATIONS SURVEY](#). The survey contains 11 questions, which you can read in the attached hard copy ([Annex](#)). This will help you in collecting the required data to answer the questions [online in the electronic form](#) provided. We estimate that completing the form should take about 15-20 minutes. You may contact WMO Education and Training Office at tra@wmo.int (attention: Mr Mustafa Adiguzel, Scientific Officer, Education and Training Office), if you have any difficulty in submitting the form.

To: Permanent Representatives of Members with WMO

cc: Hydrological Advisers

I take this opportunity to thank you for your usual cooperation and would be pleased if the required information could be sent as soon as possible, but not later than **30 August 2021**, to allow ample time for an analysis and publication of the results during this financial period.

Yours faithfully,

A handwritten signature in black ink, consisting of a long horizontal stroke followed by a wavy line underneath.

Prof. Petteri Taalas
Secretary-General



WORLD
METEOROLOGICAL
ORGANIZATION
Weather · Climate · Water

STAFF, COMPETENCIES AND QUALIFICATIONS

Initial Information

Name of Member/Country: *

Choose...

Your Name: *

Your Email Address: *

[Start](#)

For reference only!
Please submit the online survey [here!](#)

1.1 STAFFING

1. Number of staff by gender

How many men and women work in your National Meteorological and Hydrological Service (NMHS)?

Female

Male

2. Number of staff by professional category

How many staff work in the following roles?

	Male	Female
Manager	<input type="text"/>	<input type="text"/>
Meteorologist	<input type="text"/>	<input type="text"/>
Meteorological Technician	<input type="text"/>	<input type="text"/>
Hydrologist	<input type="text"/>	<input type="text"/>
Hydrological Technician	<input type="text"/>	<input type="text"/>
Climatologist/Climate Services	<input type="text"/>	<input type="text"/>
Researcher	<input type="text"/>	<input type="text"/>
Support Staff	<input type="text"/>	<input type="text"/>
Customer Interactions and Communications (such as DRR)	<input type="text"/>	<input type="text"/>
Social scientist	<input type="text"/>	<input type="text"/>
Lawyer	<input type="text"/>	<input type="text"/>
Other	<input type="text"/>	<input type="text"/>
Total Staff	0	0

Note that the total number of staff in for each gender should match the number you provided in your answer to Question 1.

3. Number of staff with university degree.

Please provide the number of staff with university degree:

Male

Female

4. Number of staff, by age category.

How many of your NMHS staff are in the following age categories?

Less than 20 years old	<input type="text"/>
21 - 30 years old	<input type="text"/>
31 - 40 years old	<input type="text"/>
41 - 50 years old	<input type="text"/>
over 50 years old	<input type="text"/>

5. Staffing trend in the last 3-5 years.

Please indicate the trend of the staffing figures during the recent 3-5 years:

- Steadily increasing
- Steadily decreasing
- No significant year-to-year change

1.2 CAPACITY DEVELOPMENT

6. Number of staff in need of training, by professional category.

How many people in these job categories and at what priority level?

	Priority
Manager	<input type="text"/> Choose...
Meteorologist	<input type="text"/> Choose...
Meteorological Technician	<input type="text"/> Choose...
Hydrologist	<input type="text"/> Choose...
Climatologist/ Climate Service:	<input type="text"/> Choose...
Researcher	<input type="text"/> Choose...
Support Staff	<input type="text"/> Choose...
Customer Interactions and Communications (such as DRR)	<input type="text"/> Choose...

7. Number of experts expected to be trained

How many staff are expected to be trained in 2021 for longer than one week, through the support of these various sources?

Government	<input type="text"/>
Project funds	<input type="text"/>
WMO	<input type="text"/>
Other scholarships	<input type="text"/>

8. Indicate the level of priority for WMO support on the following types of fellowships:

	Priority
Short course	<input type="text"/> Choose...
BSc Programme	<input type="text"/> Choose...
MSc Programme	<input type="text"/> Choose...
PhD Programme	<input type="text"/> Choose...

9. Areas in which NMHS staff training is needed.

Please list in order of priority the 4 areas where your NMHS staff need training:

	Area
Priority 1	Choose...
Priority 2	Choose...
Priority 3	Choose...
Priority 4	Choose...

10. Completion of BIP-M by personnel engaged in service provision.

Basic Instruction Package for Meteorological Technicians (BIP-MT)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No
Basic Instruction Package for Meteorologists (BIP-M)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No
Basic Instruction Package for Hydrological Technicians (BIP-HT)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No
Basic Instruction Package for Hydrologists (BIP-H)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No

11. Training and assessment of personnel on WMO competency frameworks: status of implementation and frequency of assessment.

Does your NMHS (or other service provider responsible for the provision of meteorological, hydrological and climate services) implement training and assessment for personnel on the following WMO competency frameworks?

	Status of implementation	If yes in full or in part, what is the frequency of the competency
Aeronautical Meteorological Forecaster	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Aeronautical Meteorological Observer	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Competencies for Provision of Climate Services	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Marine Weather Forecasters	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
WMO Information System Competencies	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Education and Training Providers	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Personnel Engaged in Operational Forecasting (PWS)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Weather Broadcasters and Communicators (PWS)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Advisors Supporting Disaster Prevention and Mitigation and Other User Activities (PWS)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Competency Requirements for Persons Engaged in the Development and Delivery of Products and Services to Meet User Requirements (PWS)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Meteorological Observations (OBS)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Competency Framework for Instrumentation (OBS)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Competency Framework for Calibration (OBS)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Competency Framework for Observing Program and Network Management (OBS)	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Satellite Skills and Knowledge for Operational Meteorologists	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...
Radar Skills and Knowledge for Operational Meteorologists	<input type="radio"/> Yes, in full <input type="radio"/> Yes, in part <input type="radio"/> No	Choose...

* Note that information about the WMO competency frameworks is provided in the Compendium of [WMO Competency Frameworks \(WMO-No. 1209\)](#) and guidelines on the implementation of competency-based training and assessment are provided in the [Guide to Competency \(WMO-No. 1205\)](#)

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