

Institutional Arrangements for NMHSs and Identification of Future Prioritie...

This Questionnaire has been prepared by the RA V Task Team on Strategic and Operating Planning (TT-SOP) which reports to the RA V Management Group.

The main objective of the Questionnaire is to collect basic information about the current institutional arrangements of hydrometeorological services in RA V, as well as the views of the RA V Members regarding the most important challenges and priorities. The information collected will help the Management Group and Secretariat to prepare baselines as background material and identify regional priorities for the discussions during the sixteenth session of RA V.

Your inputs to this survey are extremely important for the proper preparation of the Session and the future operating plan of the RA V. Therefore, you are kindly requested to prepare your response at your earliest possibility.

If you have any problems in accessing the questionnaire or answering the questions, please do not hesitate to contact Mr Niranjana Tamrakar (ntamrakar@wmo.int).

On behalf of the RA V Management Group, thank you very much for your participation in the Survey!

***Country**

***Name and position of the person responding to the Questionnaire**

I. Institutional arrangements

Basic information about national institutions, their position in the administration, legislation and regulation

* 1.1 Exact Title of the National Meteorological or Hydrometeorological Service (NM(H)S)

(Please provide the title in the local language and the translation in English)

* 1.2 Title of the parent organization

(Ministry, Agency, etc)

* 1.3 What is the legal status of the NMHS

(e.g., Agency, Department, State owned enterprise, etc)

* 1.4 Is the NM(H)S responsible for operational hydrology

- Yes
- No

1.5 If your answer on the preceding question is "No", please provide the name of the National Hydrological Service

(When responsibility in the fields of operational hydrology and water-resources assessment activities is shared among different institutions, or a National Hydrological Service as such does not exist, NHS is normally understood as the institution from which the Hydrological Adviser has been designated.)

* 1.6 Is the NM(H)S responsible for the provision of meteorological service for aviation

(Select the appropriate answer from the list below)

- the Service is the Meteorological Authority (as per ICAO Annex 3) and also the met service provider for aviation
- the Service is not the Meteorological Authority (as per ICAO Annex 3) but it is the met service provider for aviation
- the Service is neither the Meteorological Authority (as per ICAO Annex 3) nor the met service provider for aviation
- the Service is not the Meteorological Authority (as per ICAO Annex 3) but partially involved in the met service provision for aviation

***1.7 In your country, is there a law, decree or other legislative act on meteorology (or hydrometeorology, or similar)**

- None
- Law
- Decree

Other (Please Specify)

***1.8 Provide the title of the primary legislative act that determines the functions of your Service**

***1.9 Please indicate any other regulatory framework applicable to the functions of your Service**

(at the level of Ministry; LoAs or MoUs with other agencies, etc. Limit your answers to major ones, e.g., agreement with Civil Protection agency for warning information, etc.)

II. NM(H)S management and organizational questions

*2.1 NM(H)S Staff: what is the total staff of your organization (full time equivalent)

Total	<input type="text"/>
Male	<input type="text"/>
Female	<input type="text"/>

*2.2 NM(H)S Staff: number of staff with higher education degree (i.e., university or higher)

2.3 NM(H)S Staff: if available - what is the average age of the staff

2.4 NM(H)S Staff - trends: please indicate the trend of the staffing figures during the recent 3-5 years

- steadily decreasing
- no significant year-to-year change
- steadily increasing

Other (Please Specify)

2.5 NM(H)S Budget: what is the total budget of your organization (e.g., year 2013-14); please indicate the currency first

*2.6 NM(H)S Budget: main sources of funding

- government
- commercial activities
- cost recovery (e.g., for provision of aviation services)

Other (Please Specify)

2.7 NM(H)S Budget: what percentage of the budget comes from non-government budget

*2.8 NM(H)S Budget: trends: please indicate the trend of the government component of the budget during the recent 3-5 years

- steadily decreasing
- no significant year-to-year change
- steadily increasing

Other (Please Specify)

2.9 NM(H)S Budget: alternative sources please indicate sources of funding for improving the hydrometeorological infrastructure, etc.

- projects funded by international agencies
- projects funded by national agencies
- research projects

Other (Please Specify)

***2.10 NM(H)S - Areas of Responsibility**

(Major areas including all activities, e.g. "Meteorology" includes observations, data processing, forecasting etc.)

- Meteorology
- Hydrology
- Climate
- Air/Water quality
- Oceanography

Other (Please Specify)

***2.11 NM(H)S - Business model**

(Please select a model that is closest to your mode of operation and funding)

- Government or state owned, providing Public Weather Service (PWS) or other services to the state or to the public only (commercial activities not allowed)
- Government agency with commercial activities
- Private company

Other (Please Specify)

***2.12 NM(H)S Quality Management: is there a Quality Management (QMS) programme in place as part of your management practices**

- Yes
- No

***2.13 NM(H)S Quality Management: status of QMS implementation**

- QMS implemented for the whole NMHS
- QMS implemented for aviation branch
- none

Other (Please Specify)

***2.14 NM(H)S development Planning: is there a development/strategic plan covering the next 3-5 years in place**

- Yes
- No

***2.15 NM(H)S development Planning: if the answer of the question above is "yes", please indicate the main priority areas in your plan**

- Enhancing the monitoring infrastructure
- Improving the management and institutional arrangements
- Improving operational forecasts including the warning products
- Enhanced climate services (implementation of the GFCS)
- Extending services to new user sectors
- Improved IT (including better use of web services and social media)
- Automation of the observing networks
- Implementation of WIS
- Implementation of WIGOS
- Development and implementation of new commercial services/products
- Training, education and capacity building of staff
- Research & development

Other (Please Specify)

III. Operations and Services

Information about main service areas

*3.1 NM(H)S - Types of services provided

- Public Weather Services (PWS)
- Warning services
- Climate services
- Aviation services
- Marine Services
- Agro-meteorological services
- Hydrological services
- Tailored services to specific economic sectors
- Air/water quality
- Earthquake/Seismic Service
- Volcano Service

Other (Please Specify)

*3.2 NM(H)S - Current level of service provision for different type of services

(This is a self-assessment question; please express your assessment in the specified grades to the best of your knowledge)

	N/A	poor (not meeting stated requirements by the government or users)	partly satisfactory (meeting some of the requirements)	satisfactory (meeting most of the requirements)	advanced (exceeding the requirements and utilizing innovative services)
PWS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Warning Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climate Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aviation Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Marine Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agrometeorological Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hydrological Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tailored Services to specific economic sectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Air/Water quality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tsunami Service	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (Please Specify)

*** 3.3 NM(H)S - Current level of capability across number of research and development areas**

	N/A	poor (not meeting stated requirements by the government or users)	partly satisfactory (meeting some of the requirements)	satisfactory (meeting most of the requirements)	advanced (exceeding the requirements and utilizing innovative services)
Early Warning Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Marine Meteorology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climate Change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Climate Extreme	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hydrological Services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aviation Meteorology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (Please Specify)

3.4 NM(H)S - Monitoring and infrastructure - Indicate areas where you consider your NM (H)S lacking adequate equipment and infrastructure or there has been deterioration during the recent years

- Surface observations (Land)
- Surface observations (Ocean)
- Upper-air observations
- Weather radar observations
- Hydrological observations
- Agro-meteorological observations
- Automation of the observing networks
- Telecommunication facilities (national)
- Telecommunication facilities (international)
- Data management systems
- IT (web site, etc.)

Other (Please Specify)

*** 3.5 Is your forecasting branch sufficiently staffed to operate on 24/7/365 basis**

- Yes
- No

***3.6 Has your NM(H)S implemented an Early Warning System (EWS)?**

(It is expected that all NM(H)Ss provide some type of warning services. This question refers to the implementation of a EWS that is recognized part of the national regulatory framework on disaster risk management)

Yes

No

IV. Your inputs to identify the main Priorities for RA V for the period (20...

*4.1 To what extent are the following issues likely to be a challenges for the NMHS in 2016 – 2019:

	1 - no challenge	2 - slight challenge	3 – moderate challenge	4 – moderate to serious challenge	5 – serious challenge
Budget - anticipated cuts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Staff - anticipated cuts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of qualified personnel in some areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visibility towards the decision makers needs to be improved	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adequacy of the existing observing systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adequacy of telecommunication facilities and capacity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adequacy of of NWP modeling capacity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adequacy of climate services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adequacy of EWS and services for DRR	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Relationship with private sector	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Introduction/maintenance of QMS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4.2 Provide some more details on the major challenges for your organization and how do you plan to cope with it

4.3 In meeting the challenges specified above, please list up to six priority areas to be addressed in the RA Vwork programme for the next period.

Priorities could be related to major WMO Programmes, such as GFCS, or to institutional, financial or capacity issues.

Priority 1	<input style="width: 400px; height: 20px;" type="text"/>
Priority 2	<input style="width: 400px; height: 20px;" type="text"/>
Priority 3	<input style="width: 400px; height: 20px;" type="text"/>
Priority 4	<input style="width: 400px; height: 20px;" type="text"/>
Priority 5	<input style="width: 400px; height: 20px;" type="text"/>
Priority 6	<input style="width: 400px; height: 20px;" type="text"/>

***4.4 Is your NM(H)S in the position to provide experts to support the work of RA V subsidiary bodies (working groups and task teams) during the period 2016 - 2019**

(The support to WGs and TTs includes participation in limited number of meetings, but also collaboration with other experts through electronic means. An expert nominated to participate in the work of RA V subsidiary bodies should be provided with some amount of time to carry out the work assigned to him/her by the respective subsidiary body.)

- yes, including support for participation in meetings
- yes, provided that there is financial support from WMO for participation in meetings
- yes, but only for work through electronic means (forum, e-mail, Webex, etc)
- no, we have no possibility to allocate staff to support regional activities

Other (Please Specify)

4.5 What are the main reasons for not be able to support the work of the RA V WGs or TTs

- Insufficient staff resources - our experts are too busy with our own tasks and programmes
- RA V work is not important for us
- our experts have language problem
- we have no information about RA V WGs and TTs
- we have no budget to support the travel to attend meetings

Other (Please Specify)

***4.6 What type of outcomes of the work of the RA V subsidiary bodies would be most useful to you**

	1 - not very useful	2 - useful	3 - very useful
Organizing regional capacity development events (workshops, conferences, etc)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Providing guidance material on the implementation of the priority programmes and projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Monitoring the performance of the NMHSs to identify capacity gaps and proposing relevant measures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Developing regional implementation plans for priority areas (such as, WIS, WIGOS, GFCS, etc)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assisting Members or sub-regions to set up implementation projects and bridge technological gaps	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Be able to provide expertise on request by Members in need on "ad-hoc" basis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Establish on-line forums to discuss issues and provide advice to NMHSs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4.7 What kind of support would your NMHS wish to see from the other Members in RA V? E.g., twinning projects (in which areas?), training possibilities, exchange of experts, assistance in developing and/or enhancing regulation and procedures, technical support

4.8 What kind of support would your NMHS wish to see from the Secretariat?

4.9 As a RA V Member, what do you expect as outcomes from the sixteenth session of RA V (May 2014)? Please indicate issues that should be handled more in depth by the Session in order to produce useful outcomes matching your national needs?

4.10 Please share any other views not covered above, related to the improvement of regional cooperation and the performance of your NMHS