

**SURVEY OF MEMBERS
ON NMHS' REGIONAL NEEDS FOR AND CAPACITY TO DELIVER RCC SERVICES**

-> Note: Questionnaire can be adapted to better reflect regional characteristics! <-

PART A: Functions that will be **mandatory** for WMO designation as RCC or RCC-Network

	<i>Is your NMHS able to perform this activity to fulfil national needs? (Yes/No)</i>	<i>Is your NMHS able to perform this activity on behalf of the Region? (Yes/No)</i>	<i>Do you require this activity to be performed by n RCC? (Yes/No)</i>	<i>Is your NMHS using regional or global climate information from international institutions (Yes/No)</i>
Operational Activities for LRF:				
Interpret and assess relevant LRF products from Global Producing Centres (GPCs), distribute relevant information to RCC Users; and provide feedback to GPCs				
Generate regional and sub-regional tailored products, relevant to RCC User needs, including seasonal outlooks etc.				
Generate consensus* statement on regional or sub-regional forecasts				
Perform verification of RCC quantitative LRF products, including the exchange of basic forecasts and hindcast data				
Provide on-line access to RCC products/services to RCC Users				
Assess use of RCC products and services through feedback from RCC Users				
Operational Activities for Climate Monitoring				
Perform climate diagnostics including analysis of climate variability and extremes, at regional and sub-regional scales				
Establish an historical reference climatology for the region and/or sub-regions				
Implement a Regional Climate Watch				
Operational Data Services, to support operational LRF and climate monitoring				
Develop quality controlled regional climate datasets, gridded where applicable				
Provide climate database and archiving services, at the request of NMHSs				
Training in the use of operational RCC products and services				
Provide information on methodologies and product specifications for mandatory RCC products, and provide guidance on their use				
Coordinate training for RCC Users in interpretation and use of mandatory RCC products				

NOTE: Reflect true capacity to deliver the function, in consideration of the required human resources, computing and telecommunications capacities including equipment, power, hardware, software, etc., and other infrastructure requirements, and also mandate of the organization.

PART B: **Highly recommended** functions of RCCs and RCC-Networks

	<i>Is your NMHS able to perform this activity to fulfil national needs? (Yes/No)</i>	<i>Is your NMHS able to perform this activity on behalf of the Region? (Yes/No)</i>	<i>Do you require this activity to be performed by an RCC? (Yes/No)</i>	<i>Prioritize the activity as HIGH, MEDIUM or LOW</i>
<i>Climate Prediction and Climate Projection</i>				
Assist RCC Users in the access and use of WCRP-CMIP climate model simulations				
Perform downscaling of climate change scenarios				
Provide information to RCC Users for use in development of climate adaptation strategies				
Generate, along with warnings of caution on accuracy, seasonal forecasts for specific parameters where relevant, such as: onset, intensity and cessation of rainy season; tropical cyclone frequency and intensity				
Perform verification on consensus statements for forecasts;				
Perform assessment of other GPC products such as SSTs, winds, etc				
<i>Non-operational data services</i>				
Keep abreast of activities and documentation related to WMO WIS, and work towards WIS compliance and DCPC designation;				
Assist NMHSs in the rescue of climate data from outmoded storage media;				
Assist NMHSs to develop and maintain historical climate datasets;				
Assist RCC Users in the development and maintenance of software modules for standard applications;				
Advise RCC Users on data quality management;				
Conduct data homogenization, and advise RCC Users on homogeneity assessment and development and use of homogeneous data sets;				
Develop and manage databases, and generate indices, of climate extremes;				
Perform Quality Assurance/Quality Control on national datasets, on request of an NMHS;				
Provide expertise on interpolation techniques;				
Facilitate data/metadata exchange amongst NMHSs, including on-line access, through an agreed regional mechanism;				
Perform Quality Assurance, Quality Control on regional datasets				
<i>Coordination Functions</i>				
Strengthen collaboration between NMHSs on related observing, communication and computing networks including data collection and exchange;				
Develop systems to facilitate harmonisation and assistance in the use of LRF products and other climate				

services;				
Assist NMHSs in user liaison, including the organisation of climate and of multidisciplinary workshops and other forums on user needs;				
Assist NMHSs in the development of a media and public awareness strategy on climate service				
Training and Capacity building				
Assist NMHSs in the training of users on the application and on implications of LRF products on users;				
Assist in the introduction of appropriate decision models for end-users, especially as related to probability forecasts;				
Promote technical capacity building on NMHS level (e.g. acquisition of hardware, software, etc.), as required for implementation of climate services.				
Assist in professional capacity building (training) of climate experts for generating user-targeted products				
Research and Development				
Develop a climate Research and Development agenda and coordinate it with other relevant RCCs;				
Promote studies of regional climate variability and change, predictability and impact in the Region;				
Develop consensus practices to handle divergent climate information for the Region				
Develop and validate regional models, methods of downscaling and interpretation of global output products;				
Promote the use of proxy climate data in long-term analyses of climate variability and change;				
Promote application research, and assist in the specification and development of sector specific products;				
Promote studies of the economic value of climate information				

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