

Global RCC Review 2018: Outcomes

World Climate Applications and Services Division

Climate Prediction and Adaptation Branch

Climate and Water Department



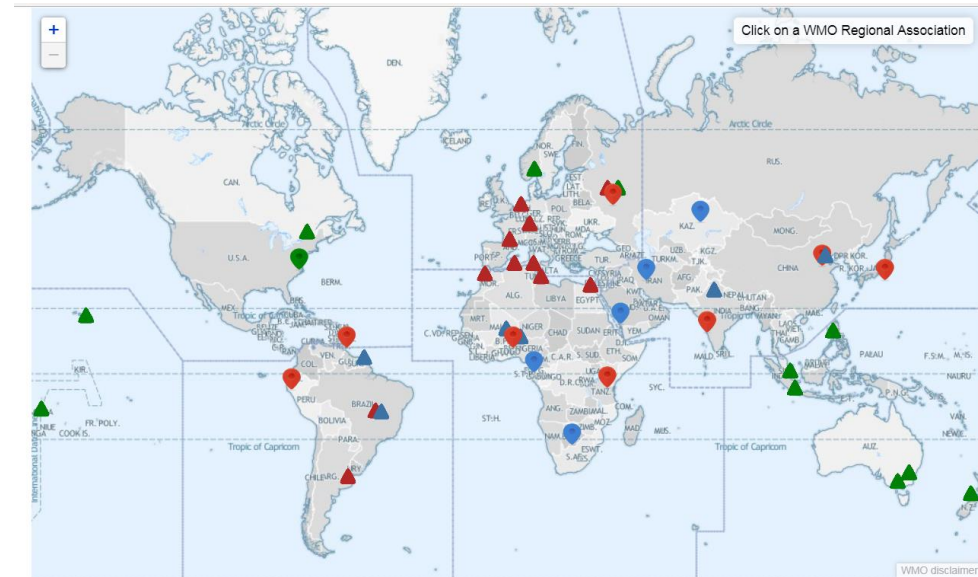
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World Meteorological Organization

Organisation météorologique mondiale

BACKGROUND

- Major achievements of the operation of WMO RCCs/RCC-Networks
- Formal RCC criteria and functions were established nearly a decade ago
- Considerable developments and scientific advances in data, monitoring, forecasting
- CCI-17 Resolution 3 - to work towards enhancing RCC operations and, inter alia, to revisit the mandatory and highly recommended functions



Legend

- designated RCC
- RCC in demonstration phase
- RCC proposed
- ▲ designated RCC-Network
- ▲ RCC-Network in demonstration phase
- ▲ RCC-Network proposed

<http://www.wmo.int/pages/prog/wcp/wcasp/rcc/rcc.php>

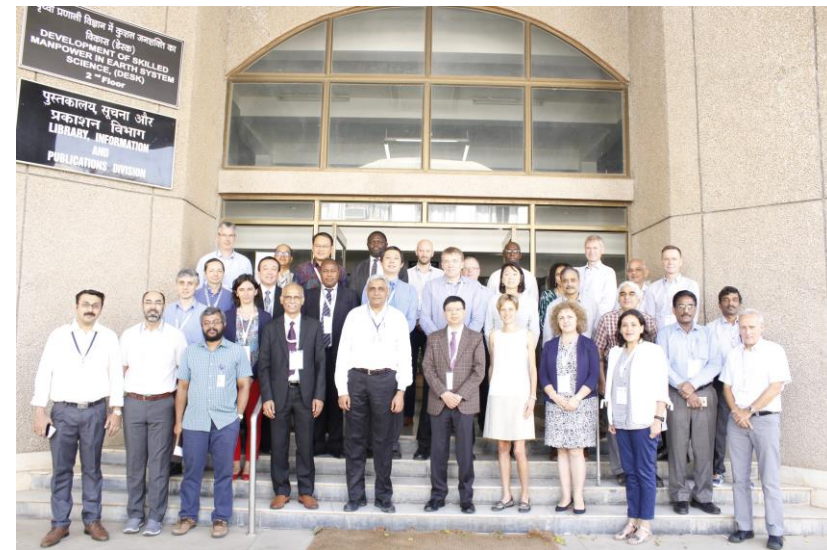
Steps for designation of a WMO RCC or RCC-Network

- RA considers Member requirements and agrees on an implementation plan
- RA invites expressions of interest from Members/potential RCC applicants
- The interested Member/org contacts P/RA re intent
- P/RA considers criteria for designation, regional capabilities and needs; provides information; establishes contact with relevant experts in CCI and CBS
- The candidate RCC or RCC node prepares – Demonstration Phase
- **When the candidate is deemed ready, P/RA informs P/CCI of steps followed and capability to meet requirements**
- **On successful completion of demonstration phase, P/RA contacts WMO SG to request formal designation of the candidate, who will then consult with P/CCI; P/CCI is assisted by IPET-RCA in the assessment**
- **Upon endorsement by P/CCI, WMO SG forwards request to P/CBS for action and demonstration of capability**
- **CBS evaluates the application against designation criteria and recommends designation if criteria are met**
- **WMO EC/Congress will consider approval of CBS recommendation; if approved, the manual will be amended, and the member/org informed.**



WMO RCC Review 2018 Workshop: Objectives

- Share Experience
 - RCC status and lessons learnt
 - Operational arrangements and practices
- Consider
 - Emerging climate topics of regional interest
 - Evolving user needs and technological advances
- Review RCC functions
 - Propose revision/update to enhance quality and uptake
- Explore ways to support CSIS Regional Approach
 - Linkages with GPCs
 - Optimize national support



WMO International Workshop on Global Review of RCC Operations
12 - 14 November 2018, Pune, India



Global RCC Review 2018

KEY RECOMMENDATIONS...

Climate Data and Monitoring

- Build NMHS capacity on methods and tools for integrated data rescue, quality control, data analysis and homogenisation
- Promote regularly WMO data sharing policies in support to climate applications and services (e.g. Resolution 60 (Cg 17)) and provide guidance on good practice for data archival
- Provide and promote consistent use of standard definitions of key parameters (e.g. for Climate Watch Advisories)
- Provide standard normals of key climate parameters (relevant for all RCC functions)
- Provide good practice guidance on use and assessment of global datasets including reanalysis
- Utilise and promote the Climate Services Toolkit and assist in requirements collection for WIS 2.0 development

Climate Predictions and Projections

- Downscale and/or customise GPC outputs in response to the needs of national and regional users, and make output model data sets available including raw data
- Develop guidance on ‘mostly objective’ seasonal forecasts and ‘impact-based’ forecasts and document the selected methodology
- Investigate the potential for sub-seasonal forecasts and products based on daily information
- Provide guidance on reliable sources of climate change projections, assessments, use of scenarios etc.
- Build own as well as NMHS capacities in climate model data access and processing
- Consider becoming centres of excellence for specific functions, develop and share required expertise with other RCCs

Interface Mechanisms and Capacity Development

- Gain endorsement from NMHS directors to ensure ‘buy-in’ and operational use of RCC products and services
- Report status and progress annually to presidents of WMO RAs (with copy to appropriate subsidiary body, the Inter-Programme Expert Team on Regional Climate Activities and the RCC host institution) and invite president to share the report with all Permanent Representatives in the region
- Frequently engage with NMHSs via teleconference, email, in-country visits, newsletters, thereby significantly strengthening the RCC – NMHS feedback process
- Involve NMHSs in RCC strategic discussions and planning to ensure relevance
- Support NMHSs in sector engagement and provide tailored products’ good practice, and consider developing regional-scale tailored products
- Reformat RCOFs as Regional Climate Fora with a primary focus on building capacity through training and knowledge sharing

Use of Global Products and Standardisation

- IPET RCA to develop guidance for RCCs
 - on global datasets selection and use, based on standard criteria
 - on optimal structure of RCC webpages, map projections, colour scale, etc.
- IPET-OPSLS to develop guidance:
 - on good practices in the use of LRF products from GPCs, LCs and other centres including regionalisation
 - on methods of assessment of LRF skill
- RCCs to consider strengthening or establishing connections with neighbouring RCCs and RCOFs
- WMO to consider the formation of an Expert or Task Team on decadal forecast- and climate change services

Overarching Recommendations (1/2)

- RCCs to facilitate access to digital data (not only in-situ observational data)
- Consider explaining the meaning of ‘mandatory’ functions in the sense of minimum requirements for designation, thereby being the starting point for RCC functions that can be further developed according to regional needs
- Mandatory functions being valid in general, they should be reviewed for some minor adjustments including in terms of consistency and in the light of the RCC Review 2018 recommendations
- Provide more specific technical guidance for RCC mandatory and recommended functions
- Raise awareness through publishing an article on RCC functions and role in developing climate services

Overarching Recommendations (2/2)

- Make sure that implications of the WMO governance reform on RCC designation and operations are well understood and appropriately taken into account
- Make sure that RCC Research and development needs are communicated to the appropriate bodies, e.g., WCRP/WGSIP and IPET-OPSLS
- Consider regular RCC reviews and information exchange fora
- IPET-RCA to explore and communicate opportunities for RCCs arising from Copernicus Climate Change Service (C3S) and Climate Services Toolkit
- WMO Operational Climate Prediction workshops to include dedicated sessions for discussions on relevant RCC operational aspects

Thank you



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