

Introduction to the WMO Regional Climate Centers (RCCs)

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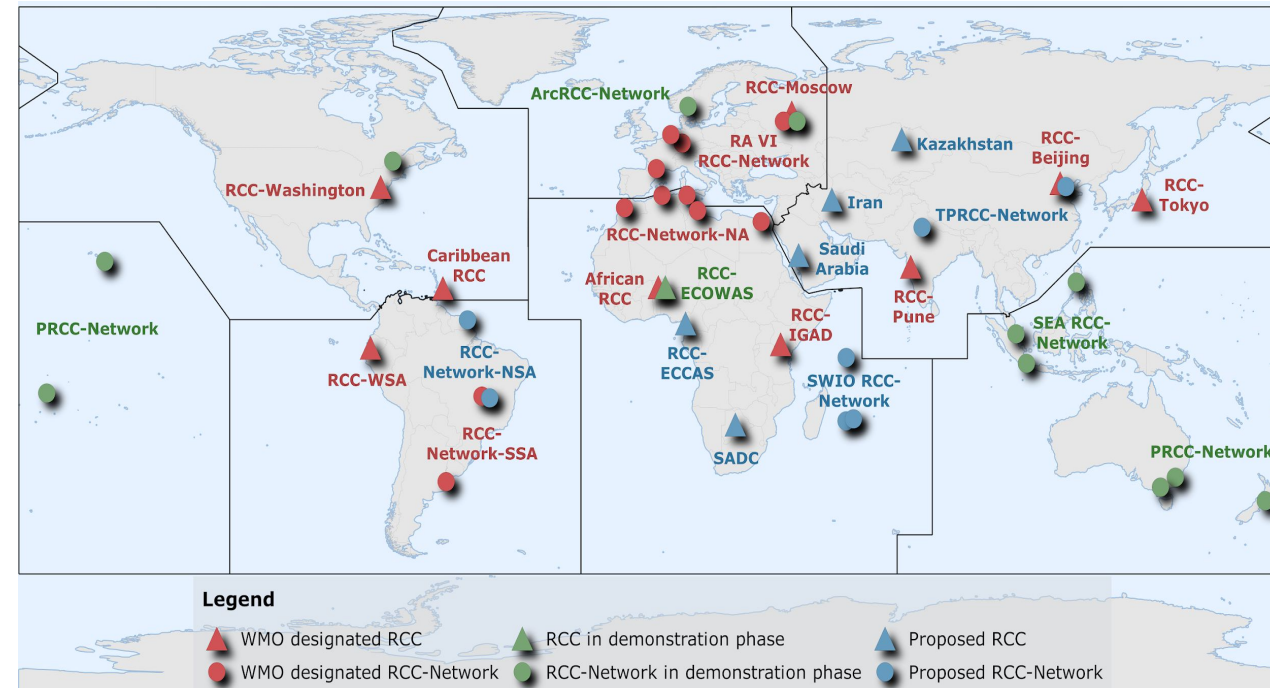
Hydrometcenter of Russia/NEACC



11 session of Arctic Climate Forum
Hosted by Sweden

WMO Regional Climate Centres - Concept

- Centres of Excellence mandated to generate **high-quality regional-scale products**
- Key entities within the **Climate Services Information System (CSIS)**
- Strengthen **capacity of WMO Members** in the delivery of improved climate services to national users
- Facilitating **access to and application** of regional climate products
- Serve **primarily the NMHSs within the RCC's region**, as a backbone for the development and maintenance of NMHSs' climate services
- Can serve **other WMO RCCs and NMHSs** from areas outside an RCC's region of interest
- Regional **cooperation and prioritization** for capacity development



*12 Designated WMO RCCs and RCC-Networks
4 RCCs and RCC-Networks in demonstration phase*

WMO Regional Climate Centres – Definition

- **WMO-RCC**: A **multifunctional centre** that fulfils all the required functions of an RCC for the entire region, or for a sub-region to be defined by the regional association
- **WMO RCC-Networks**: A **group of centres** performing climate-related activities that collectively fulfil all the required functions of an RCC
- **WMO RCC-Network Node**: a centre in a designated WMO RCC-Network that performs, for the region or sub-region defined by the regional association, **one or several of the mandatory RCC activities**
- The concerned **Regional Association endorses** a proposed RCC structure (implementation plan) to start the demonstration phase

WMO Regional Climate Centres – Functions

Mandatory Functions: Minimum set of functions performed by RCC to be officially designated as a WMO RCC, or a WMO RCC-Network

- Operational Long-Range Forecasts
- Operational Climate Monitoring
- Operational Data Services
- Training

Once this is complied with, each RCC can prioritize its functions and additional activities based on the specific needs of the region, and even give them more importance than the mandatory functions (e.g., surface air temperature over the Antarctic).

Highly Recommended Functions

- Prediction & Projection
- Non-operational Data Services
- Coordination Functions
- Capacity Building
- Research & Development

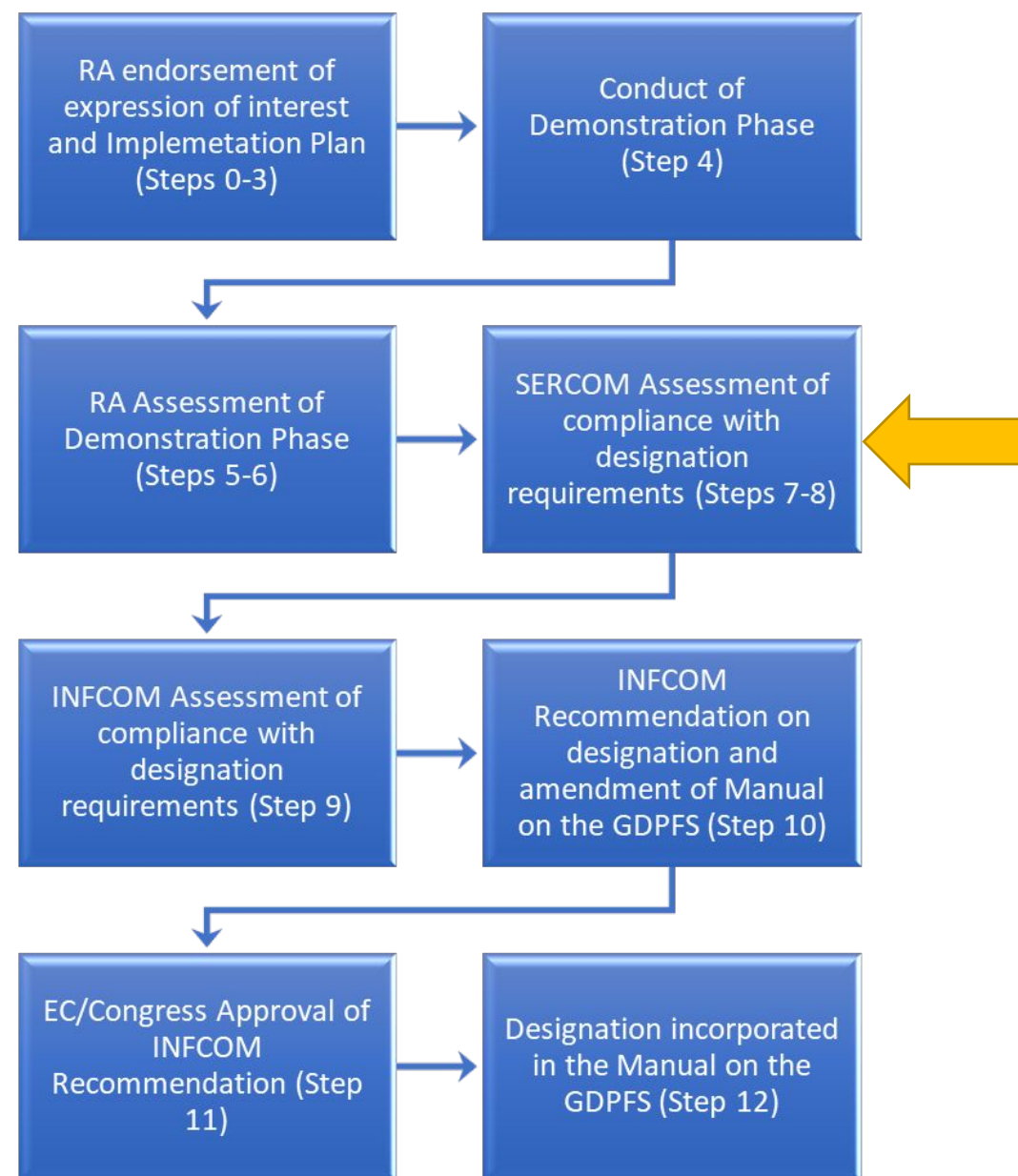
Key milestones in the journey of RCC establishment and role of WMO Technical Commissions

SERCOM/SC-CLI/ET-CSISO

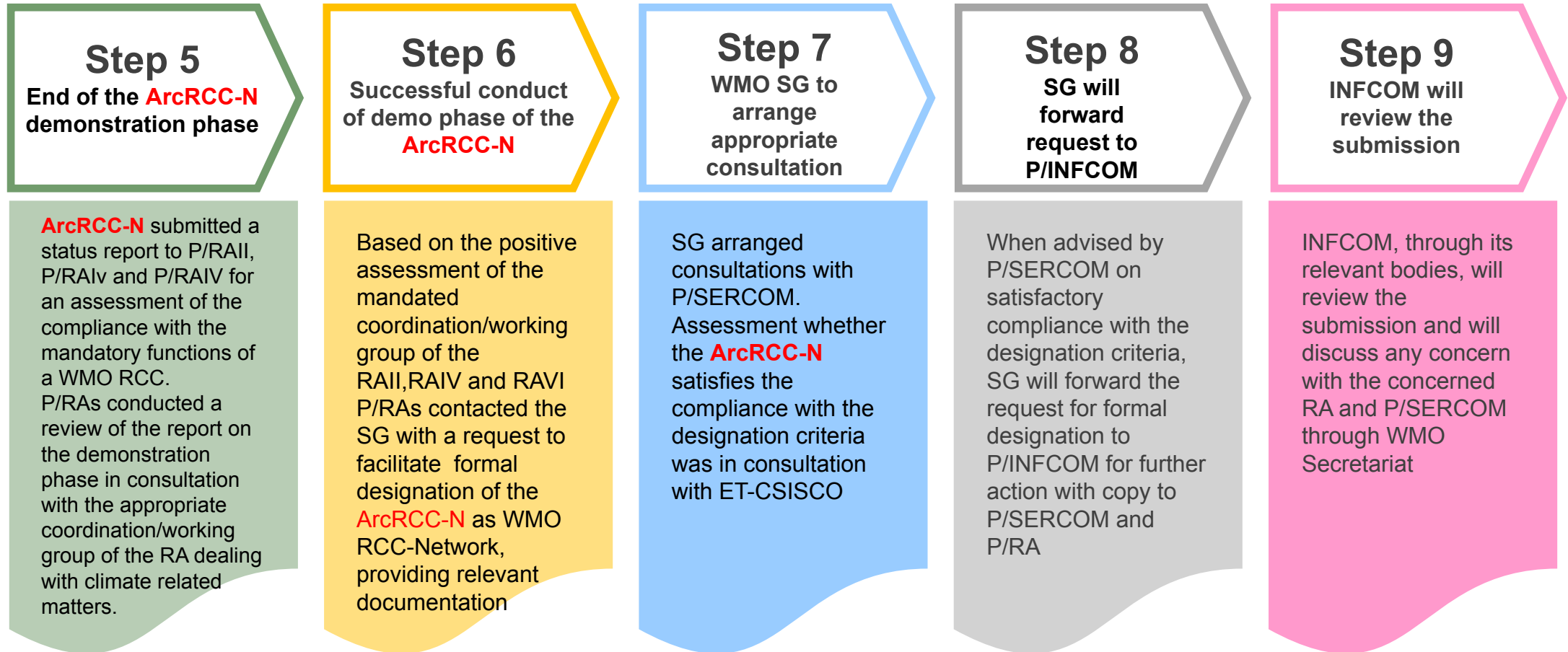
- Guidance on establishment and operation of RCCs
 - Final version under publication
- Assessment of RCC operations and recommendations for designation/evaluation matters working closely with INFCOM/SC-ESMP
 - Implementation of an annual reporting process for RCCs
 - Analysis of annual reports and evaluation reports for each of the designated RCCs and RCCs formally in demonstration phase
 - Assessment of RCC designation proposals and recommendations
 - Review and update of RCC functions (both mandatory and highly recommended), designation criteria/processes

INFCOM/SC-ESMP/ET-OCPS

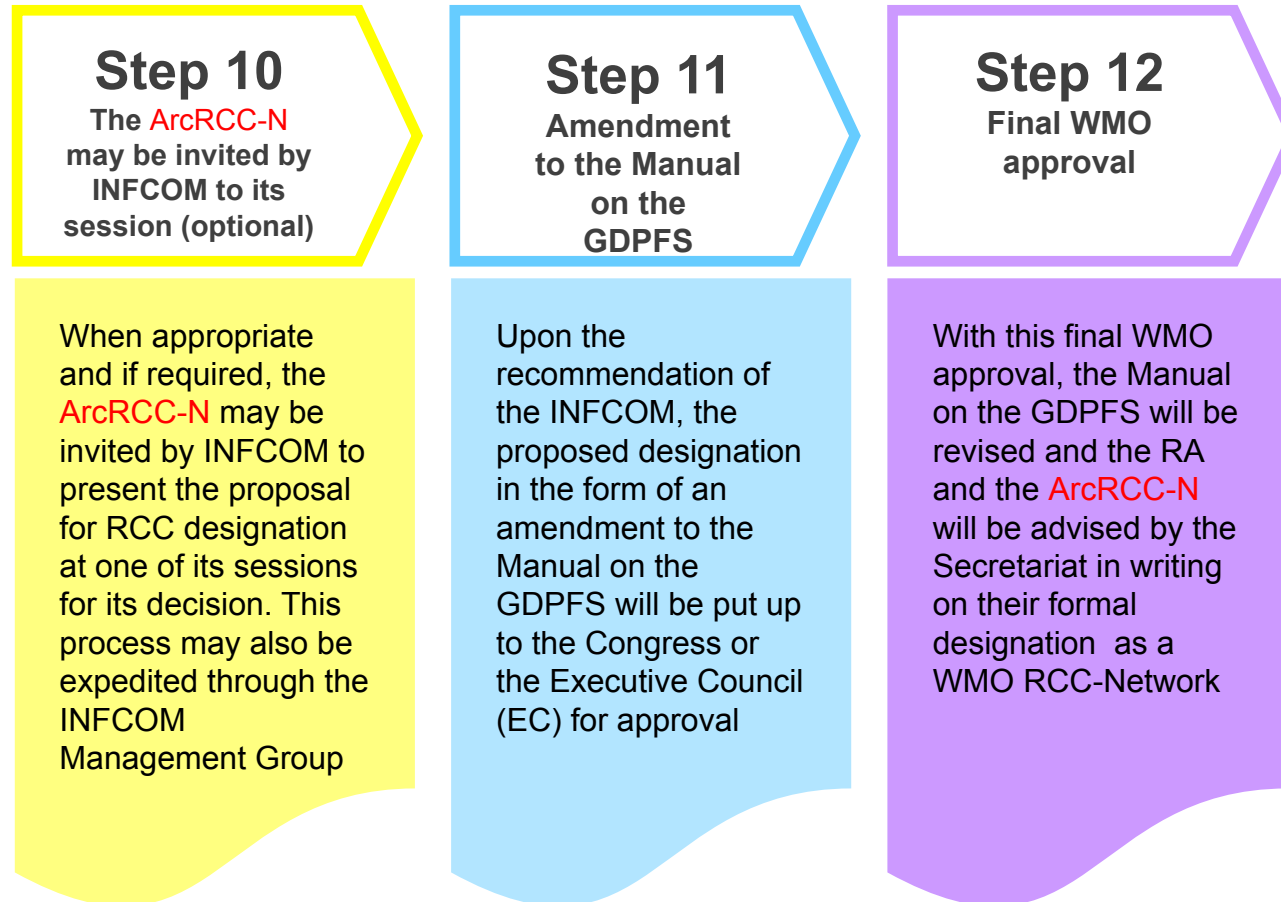
- Evaluate applications against the designation criteria in the GDPFS Manual and make recommendations to designate new centres to INFCOM
- Liaise with SERCOM to incorporate evolving needs of CSIS into the operational infrastructure



Step-by-step **ArcRCC-N** designation process 1/2



Step-by-step ArcRCC-N designation process 2/2



Designated WMO **ArcRCC-N**



Thank you



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