



World Meteorological Organization

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# Antarctic Regional Climate Centre Survey outcome and mapping of capabilities

***(!DRAFT – TO BE COMPLETED!)***

Secretariat

# Survey outcome (mandatory RCC functions for formal recognition)

Out of **23** Member responses, approximately

- **65%** state that they **require** the activities listed under mandatory functions to be performed or coordinated by an RCC (75% for both data and monitoring activities, respectively; 60% for LRF; 50% for training)
- **30% offer** relevant activities already (50% for monitoring, 30% for data; 20% for LRF and training, respectively)
- **40% are interested** in contributing to an Antarctic RCC effort (40% for data and LRF, respectively; 50% for monitoring; 30% for training).



# Survey outcome: Contributing Members

Argentina,

Finland

Norway,

Australia,

France,

Peru,

Austria,

Germany,

Russia,

Brazil,

India,

Slovakia,

Canada,

Italy,

Sweden,

Chile,

Japan,

United Kingdom,

China,

Kazakhstan,

USA

Denmark,

Korea,



# RCC mandatory functions – high-level overview of interest and capability

Function	Countries offering relevant Antarctic services already	Countries interested in contributing to Antarctic RCC functions
<b>LRF</b>	Argentina, Australia, (Italy), (Russia), UK, USA	Argentina, Australia, Chile, China, Finland, India, Italy, (Japan), Korea, Norway, Peru, Russia, Sweden, USA
<b>Monitoring</b>	Argentina, Australia, Denmark, Chile, France, India, (Italy), Norway, Russia, UK, USA	Australia, (Denmark), Chile, China, France, India, Italy, Japan, Peru, Korea, Russia, UK
<b>Data</b>	Argentina, Australia, France, Chile, India, Japan, Norway, Russia, UK, USA	Argentina, Australia, Chile, China, (Denmark), France, India, Italy, Japan, Korea, Norway, Russia, UK
<b>Training</b>	Argentina, (Russia), USA	Argentina, Australia, Chile, China, France, Korea, Peru, Russia



# Survey outcome (highly-recommended RCC functions)

Out of **23** Member responses, approximately

- **75%** state that they **require** (at least selected) activities listed under highly-recommended RCC functions to be performed or coordinated by a RCC
- **65% are interested** in contributing to (selected) activities listed under highly-recommended RCC functions; R&D coordination often highlighted in particular



# RCC highly-recommended functions – high-level overview of interest to contribute

**Interest to contribute to all highly-recommended functions** (all or selected activities):

Argentina, Australia, Chile, China, Italy, Japan, Korea, Norway, USA

**Interest to contribute to some of the highly-recommended functions** (all or selected activities):

Finland, France, India, Peru, Russia, UK



## Existing and future collaborations

A number of existing collaborations and relevant opportunities have been mentioned, such as YOPP, GCW, IICWG etc.

An Arctic-RCC-Network can largely benefit from this.

# HOW?



# Mapping of **specific proposals** for contributions to an Arctic-RCC-Network (mandatory functions)

Function	Country
LRF	<b>Canada:</b> PCOF + seamless LRF (for entire Arctic region?)
Monitoring	
Data	<b>Denmark/Greenland:</b> Greenland Climate Data Hub to be extended to an Arctic Data Hub (tbc)
Training	

**Russian Federation,**

**Nordic countries:**

Integrated contribution to all mandatory functions and beyond for their territories

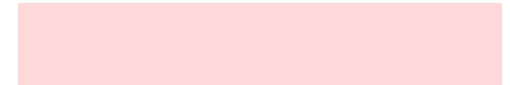
**USA:** happy to contribute to PRCC, special interest: impact forecast, R&D, services beyond classic RCC





# Mapping of **specific proposals** for contributions to an Arctic-RCC-Network (highly recommended functions)

Function	Country
Climate Prediction/ Projection	
Non-op. Data Services	
Coordination	
Training	
R&D	



## Next steps

1. Seek formal endorsement of the implementation approach from RAs II, IV and VI as well as EC-PHORS;
2. ?Seek formal expression of intent (of countries within the Arctic Polar Region?) to contribute to an Arctic-RCC-Network (gives also mandate to national experts to discuss technical implementation)?
3. Specify products/services for Arctic-RCC-Network (cf. RA VI RCC-Network Implementation Plan) – both mandatory and highly-recommended
4. Focal Point, Product/Service, Producer, Areal coverage, time of issuance, URL/access point, Remarks
5. Methodology, spatial resolution, temporal resolution, Quality indicators/Validation, References
6. Draft an Arctic-RCC-Network Implementation Plan (**who leads?**) (including identifying Node leads and consortia, Arctic-RCC-Network WebPortal, open vs restricted product access etc)
7. Seek commitment of contributing countries and start demonstration (follow WMO RCC Designation Process)





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Thank you for your attention

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