

Short introduction on purpose and framework of the Research Board

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WMO Secretariat







WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

WMO Strategic Plan 2020-2023

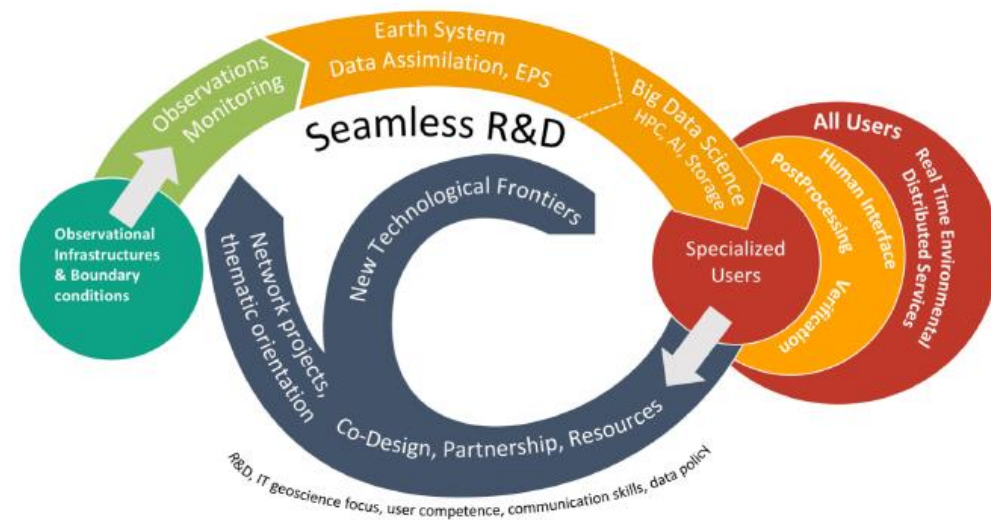
Our Vision: all resilient by 2030

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1 Services Better serve societal needs: delivering, authoritative, accessible, user-oriented information and services
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2 Systems Enhance **Earth system** observations and predictions: Strengthening the technical foundation for the future
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3 Science Leveraging leadership in science to improve understanding of the **Earth system** for better services
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4 Support to Members Enhancing service delivery capacity of developing countries to ensure availability of essential information and services
- 
5 Smart Organization Strategic realignment of WMO structure for effective policy- and decision-making and implementation



RB primary responsibility: to deliver the Long Term Goal of the WMO Strategy "Advance Targeted Research"

- Advance Scientific Knowledge of the **Earth System**
- Enhance the **science-for-service** value chain ensuring scientific and technological advances improve predictive capabilities
- Advance **policy-relevant science**



1. Overview of the RB subgroups

Figure 1 represents the WMO RB with its subgroups. Several groups under the RB are supported jointly with co-sponsor organizations.

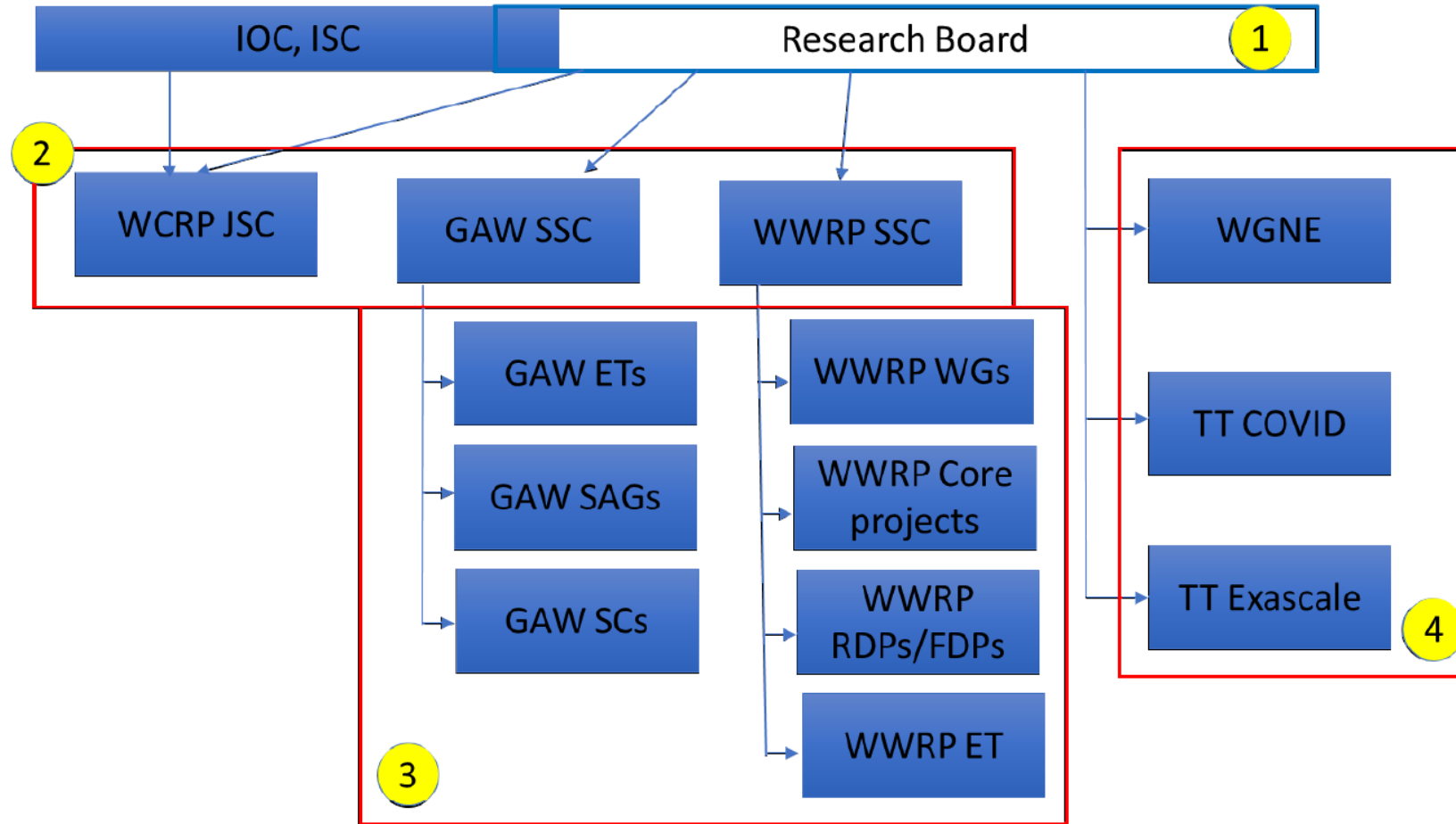


Figure 1. Subgroups under the WMO RB. The number in the diagram indicates the respective workflow for the membership appointment process (see Section 5). Please note that WGNE reports to WCRP JSC as well.

How can RB help to identify synergies, provide support

WGNE presentation to RB, January 2021

- Promote efficient sharing of information (single web site to efficiently find links to subgroup, project, and meeting websites)?
- Foster links to WCRP/WWRP modelling efforts
- Foster links to UN sustainability goals and how these translate to ESM
- Support both service oriented and basic research efforts
- Support development of bridging ESM, observations, AI/ML and coupled data assimilation across weather and climate scales.
 - E.g., cross-timescale DA group parallel to WGNE could help with topics such as coupled DA, use of DA statistics to inform model development, wider cross-program Digital Earth activity
- Address/investigate issue of archiving MIP data.
- Reporting to just RB instead of both WCRP and RB would lighten the reporting overhead.

Research Board Task Teams

- Task team on AI and Exascale Computing split into two. Tim Graham is our WGNE rep, and WGNE has also provided comments on the exascale computing document. Updates provided by Adrian Hines (AI) and Kris Rowe (Exascale) on Wednesday.
- RB-WMO report on Meteorological and Air Quality factors affecting the COVID-19 Pandemic: <https://public.wmo.int/en/media/press-release/report-examines-meteorological-and-air-quality-factors-and-covid-19>

Hydrology Priorities:

WGNE has provided comments on the hydrology strategy paper and Nils attended the Hydrological Research Strategy workshop in September.

RB tiger team on hydrology to build on the specifics of the approved hydrological research strategy and extend the work to be inclusive of hydrological research activities from WWRP, WCRP, and GAW.

Open Science Conference 2025 (D. Terblanche): Focus will be on Science in Service to Society (different from the WCRP open science conference in 2023). Stay tuned for more on this.



Research Board

The Research Board on Weather, Climate, Water and the Environment (Research Board) translates the strategic aims of WMO and decisions of Executive Council and Congress into overarching research priorities, and ensures the implementation and coordination of the research programmes to achieve these priorities in accordance with the purposes of Organization defined in Article 2(f) of the Convention.

Chair: Celeste Saulo (Argentina)

Currently Deon Terblanche as Acting Chair and Martin Visbeck as Transitional Vice Chair

Vice Chair: Deon Terblanche (South Africa)

The Board shall coordinate implementation and resourcing of WMO research programmes taking into account the advice of the Executive Council Scientific Advisory Panel (SAP). The Board shall address Members’ needs and support implementation of the WMO Strategic Plan based on science and implementation plans approved by the Executive Council and any co-sponsor governing bodies, as appropriate, for WMO research programmes and activities