

**Call for Submissions from Baku Climate Conference 2024****Research and Systematic Observation (RSO)****Views on Possible Themes for the seventeenth (17th) Meeting of the Research Dialogue****Submission from WMO**

In its conclusions on Research and Systematic Observation (RSO) at COP 29, the Subsidiary Body for Scientific and Technological Advice (SBSTA) sixty-one (61) recognized the existence of data gaps across various environmental systems, including the atmosphere, hydrosphere (oceans and coastal regions), cryosphere, biosphere, deserts, and mountainous regions.

The WMO submission presents views on the possible themes for the seventeenth (17th) meeting of the research dialogue, which will be held in conjunction with SBSTA 62 in Bonn, Germany, from 16 to 26 June 2025 responding to the SBSTA 61 call for updates on cryosphere monitoring and modalities to address gaps in data availability, particularly in high-mountain and polar regions.

Given that 2025 is the International Year of Glaciers' Preservation (<https://www.un-glaciers.org/en>) as well as the Decade of Action for Cryosphere Sciences, a focus on the need for high-altitude observations as well as how this would improve both the related science and services could be a theme. From the World Climate Research Programme (WCRP) side, this would link to WCRP's new "Impacts of Changes in the Mountain Cryosphere" group run by its Climate and Cryosphere Core Project (<https://climate-cryosphere.org/ic-montc-steering-group-nominations/>). Links could be made to the Global Cryosphere Watch as well.

Alternatively, or as well as, there could be a topic focusing on the science and related observations (and services) in the polar regions leading up to the next International Polar Year 2033-34 (<https://ipy5.net/>). Links are possible to WCRP's Climate and Cryosphere Core Project (<https://climate-cryosphere.org/>) as well as World Weather Research Programme (WWRP)'s Polar Coupled Analysis and Prediction for Services (<https://www.wwrp-pcaps.net/>) activity and the Global Cryosphere watch (<https://globalcryospherewatch.org/>).

The proposed topics for the seventeenth (17th) research dialogue aim to emphasize the critical role of the cryosphere and polar regions in the Earth's climate system, particularly in light of the escalating impacts of climate change in these regions.

The dialogue will facilitate discussions on enhancing climate data collection, encouraging funding for research and monitoring, and incorporating cryosphere-related changes into adaptation planning, in preparation for COP30 where further deliberation is expected to strengthen technical and financial support for high-mountain and polar regions.