

**WMO OMM**

World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

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1 February 2024

Subject: Open call for new members of the WMO Scientific Advisory Panel

Dear Sir/Madam,

The role of the World Meteorological Organization (WMO) Scientific Advisory Panel (SAP) is to provide forward-looking strategic advice on emerging challenges and opportunities related to WMO's mandate in weather, climate, water and related environmental and social sciences. As such, SAP advises on areas in which technological and scientific advancement could lead to new applications related to WMO core activities, enhances WMO's role as a facilitator of international cooperation in weather, climate, water and related environmental sciences and promotes science vision and its downstream trends.

SAP is composed of a maximum of 15 independent, leading, internationally recognized experts from the fields of weather, climate, water, ocean and related environmental and social sciences, taking into account regional and gender balance and representation from academia, research bodies and the private sector. At present, there are several positions vacant and we are pursuing the enhancement of expertise in several crucial disciplines to stay at the forefront of scientific innovation and application.

Our focus areas include:

- (1) Advancing Earth system numerical prediction and modelling: We aim to deepen our understanding and predictive capabilities concerning the Earth's complex systems with a special emphasis on the water cycle, ocean and ecosystem sciences. By developing more sophisticated models, we hope to gain valuable insights into environmental processes and their impacts on global ecosystems.
- (2) Exploring the frontiers of emerging technologies: Our commitment extends to exploring the vast potential of cutting-edge technologies such as artificial intelligence and machine learning. We recognize the importance of navigating the ethical considerations surrounding data usage and aim to lead in developing responsible and innovative technological solutions;
- (3) Estimating and improving the socioeconomic benefit of weather information: Although social and economic sciences are not traditional disciplines of WMO, the integration of weather, climate and environmental data with socioeconomic data provides the opportunity to predict and warn of the impacts of weather and climate on society.

In addition to these technical areas, we recognize the value of diverse perspectives and expertise in enriching our research and applications. Therefore, we are also focused on broadening our representation from various sectors, regions and communities, including:

To: Permanent Representatives of Members with WMO

cc: Hydrological Advisers

- **Engagement with the private sector:** We seek to forge stronger partnerships with industry leaders and innovators in the private sector. These collaborations are vital for practical applications of our research and for driving technological advancements.
- **Regional inclusion:** It is essential to incorporate regional perspectives, particularly from Latin America, Africa, Asia, and the Pacific regions. We believe that insights from these areas are crucial in addressing emerging scientific challenges and seizing opportunities relevant to our mandate. This approach ensures a more holistic understanding of global scientific issues.
- **Empowering women and minority groups:** We are committed to promoting diversity and inclusivity. By actively encouraging participation from women and underrepresented groups, we aim to foster an environment where diverse ideas and perspectives can thrive, leading to more innovative and comprehensive scientific outcomes.

Through these initiatives, we aspire to create a dynamic and inclusive scientific community that leads the way in addressing some of the most pressing challenges of our time. SAP members are expected to actively contribute to the work of the Panel and engage in, or lead, one or more of the work streams. We are looking for experts who can represent and engage relevant communities, who have excellent communication skills and who want to become part of an esteemed group of world-leading scientists and leaders in their fields. Applications from underrepresented communities are strongly encouraged.

Applicants should send a curriculum vitae (maximum 3 pages) detailing their education, experience, relevant skills and proposed contribution to the activities of SAP mentioned above, along with their contact details and a letter of motivation (maximum 1 page), to Prof. Jürg Luterbacher, Director, Science and Innovation Department, WMO (jluterbacher@wmo.int) with a copy to Ms Lauren Stuart, Scientific Officer, Science and Innovation Department (lstuart@wmo.int). This call will be open until **26 February 2024**.

For any questions, please contact Dr Gilbert Brunet, Chair of SAP, (gilbert.brunet@bom.gov.au) or Prof Jürg Luterbacher.

Yours faithfully,



Prof. Celeste Saulo
Secretary-General