



SEVENTH MEETING OF THE PACIFIC METEOROLOGICAL COUNCIL (PMC-7)

"AT THE FRONTLINE OF WEATHER, CLIMATE, WATER, AND OCEAN ACTION IN THE PACIFIC"

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"At the Frontline of Weather, Climate, Water, and Ocean Action in the Pacific"

17-19 September 2024, Warwick Le Lagon-Vanuatu Resort, Port Vila, Vanuatu

Agenda Item 13.2 Pacific Climate Change Centre – Coordination of Pacific Climate Change Science

Purpose

The purpose of the paper is to provide an update on coordination of Pacific Climate Change Science and strengthening Pacific engagement and participation in the Intergovernmental Panel on Climate Change (IPCC).

Background:

The Pacific climate change research community has created substantial new scientific knowledge through various donor-funded projects to enhance the understanding of the Pacific climate system, including new and innovative ways to enhance the accessibility and utility of the more recent CMIP6 generation of climate projections and related, science-based climate change services. These projects and associated products and services, together with related, nationally relevant projects such as the Green Climate Fund *Climate Information Services for Resilient Development in Vanuatu* (Van KIRAP) project, have developed new scientific knowledge, capability and resources, as well as leveraging and in some cases enhancing existing traditional knowledge, in the form of climate change services for the Pacific. The current generation of CMIP6 global climate model projections to inform the IPCC Sixth Assessment Report (AR6) were released and published by the IPCC Working Group 1 in Oct 2021, and the IPCC Working Group 2 report and IPCC Working Group 3. Pacific fact sheets on the Pacific context from the IPCC reports have been developed by the Pacific Climate Change Centre hosted at SPREP in partnership with the Australia National University (ANU).

In this context, and in recognition of the critical ongoing role of climate change research aligned with the scope and intended outcomes of the PIMS, it was determined at PMC6 in Nadi (2023) for the Pacific Climate Change Centre (PCCC) to review and update the original Pacific Climate Change Science to Services Research Roadmap (PCCS&SRR) with a view to further expanding the strategic scope of the Roadmap (now simply referred to as the *Pacific Climate Change Research Roadmap/PCCRR*), and developing, prioritising and actioning a new Roadmap Implementation Plan.



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The PCCC hosted at SPREP acts as the centre of excellence to provide climate change information and continues to bring many broader benefits to the Pacific region more specifically on, Knowledge brokerage, Applied research, Capacity building and Innovation. The PCCC has mobilised resources from UKMO, DFAT and MFAT for the review of the Pacific Climate Change Research Roadmap. The PCCC has conducted a survey on the review of the roadmap as well as a workshop on Pacific climate change science at the recent Pacific Oceans Pacific Climate Change Conference (4POPCCC). A consultant has been recruited based on consultations, in addition to the existing (and ongoing) climate intelligence needs for the Pacific, as reflected in the key pillars of the existing Roadmap, it has been recognised as part of the new PCCRR to consider a more 'end-to-end' approach to climate change research in the Pacific, incorporating enhanced and/or additional science and enabling domains specifically for (but not otherwise limited to):

- climate change knowledge brokering, communications and capacity development, including at (regional to national/sub-national) scale, to better facilitate the science-policy nexus for all partner PICs and user groups
- finer-scale analytics informing integrated (hazard, exposure, impact and vulnerability) risk assessments for changes in both mean and extreme climate conditions
- more innovative and effective use of TK, aligned with the so-called 'western' science, as a key evidence basis for informing decision-making, particularly at local community level
- adaptation and climate-related DRM planning, incorporating relevant social science, TK and economic assessments, with specific reference to better understanding adaptive capacity and decision-pathways for local communities, and
- Selected transdisciplinary science domains, for example as might relate to climate change mitigation and the regional 'loss and damage' dialogue, artificial intelligence and data analytics, spatial mapping/referencing and visualisation etc
- Fit-for-purpose governance arrangements designed to enhance user-driven and outcome-focussed approach to prioritisation, coordination and implementation of research, including to facilitate service delivery to an agreed scientific standard, reduced transactional costs and a tangible (measurable) impact pathway aligned to relevant regional strategic frameworks.



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As part of coordination of Pacific climate change science, the PMC 6 recommended SPREP through the PCCC to support and strengthen Pacific regional coordination and engagement with the IPCC and related processes in collaboration with NMHSs and other national regional partners and agencies.

The IPCC's objective since 1988 has been to provide governments at all levels with scientific information that they can use to develop climate policies.

The Pacific Climate Change Centre in partnership with the Institute for Climate, Energy & Disaster Solutions at the Australian National University and DCCEE had hosted a series of the Intergovernmental Panel on Climate Change Pacific Webinars for IPCC focal points and NMHS to discuss the outcomes of the IPCC bureau meeting, the IPCC Plenary 61 in July and ways to be involved in the upcoming IPCC Seventh Assessment Report (AR7) including nominations for roles for IPCC special reports and opportunities for the IPCC scholarships.

The PCCC has conducted a Pre-Cop 28 webinar with the Chair of IPCC as well as IPCC webinars on preparation and outcomes for the 61 IPCC bureau and nominations for roles for IPCC special reports.

Objectives:

1. To present on the update on the review of the Pacific Climate Change Research Roadmap
2. To present on the update for strengthening engagement and participation of the Pacific in the IPCC

Recommendations:

The Meeting is invited to:

- Note the progress on the review of the Pacific Climate Change Research Roadmap
- Note the progress for strengthening Pacific coordination for IPCC
- Recommend mobilising of resources for the strengthening Pacific engagement and coordination of IPCC and the implementation of the Pacific Climate Change Research Roadmap.

