

Report on the 1st meeting of the Pacific Islands Climate Services (PICS) Panel

Fiji Meteorological Service, Nadi, Fiji, 14 - 15 August 2014



Meeting attendees (from left): *Elisabeth Holland, Mafutaga Leiofi, Ueneta Toorua, Samuel Mahia, Bipendra Prakash, John Marra, Henry Taiki, Andrew Tait, Janita Pahalad, Molly Powers-Tora, Ofa Fa'anunu, Netatua Pelesikoti and Philip Malsale*. Absent from the photo are *Salesa Nihmei, Alipate Waqaicelua and Tamara Avellan*.

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Introduction

The second meeting of the Pacific Meteorological Council (PMC-2) in Nadi, Fiji, in July of 2013 endorsed in principle the establishment of a Pacific Islands Climate Services (PICS) Panel to serve as the PMC's Advisory Committee on climate services matters, reaffirming the critical need for a more strategic approach with greater alignment and coordination.

The recent Regional Consultation on Climate Services for Pacific Small Island Developing States (SIDS) in Rarotonga, Cook Islands, in March 2014 continued to provide an avenue for National Meteorological Services and other economic and social development sectors to discuss climate services. One of the main outcomes of the consultation is a draft Pacific Regional Implementation Roadmap for Strengthened Climate Services to guide the PMC and its members on how the GFCS and its five pillars could be implemented and realized in the region.

The terms of reference for the PICS Panel was also discussed and endorsed during a special session of the PMC held on 4 April 2014 in Rarotonga and members were nominated to serve on the Panel.

The first meeting of the PICS Panel in Nadi, Fiji, in August 2014 brought together selected experts on climate services and other social and economic development sectors, as well as relevant partners and practitioners supporting and/or using climate services, in the Pacific region. Its purpose was to facilitate discussions to achieve the objective of the meeting as follows:

To develop an Action Plan, based on the draft Pacific Regional Implementation Roadmap for Strengthened Climate Services, for the next 3 years that will entail the following elements (not listed in any priority order):

- a) Development of a Regional Climate Outlook Forum (RCOF) concept and its implementation in the Pacific region;
- b) Implementation of National Climate Outlook Forums in the Pacific Island Countries;
- c) Establishing a Regional Climate Centre (RCC) for and in the Pacific region;
- d) Review of existing regional strategies and frameworks in relation to climate services in the Pacific region;
- e) Conduct a gap analysis on the activities covered by existing programmes to support climate services in the Pacific region.

The Action Plan (see separate document) includes tasks to be undertaken by members of the PICS Panel, as well as tasks that will require leadership from and partnerships between other existing international, regional and national organizations, institutes and government ministries. Where possible, starting and ending dates for tasks have been suggested.

Pre-Meeting Concept Note

See Appendix 1 for the Meeting Concept Note prepared by SPREP, including background information and the Meeting Agenda.

Terms of Reference for the PICS Panel

See Appendix 2 for the revised ToR for the PICS Panel, as agreed upon at the meeting.

Priority PICS Panel Actions

The following Priority Actions for the PICS Panel have been drawn from the Action Plan (see separate document):

	Priority Actions	Timeline	PICS Panel task leader*
1	Plan for and hold the first Pacific Islands Regional Climate Outlook Forum (RCOF) including a water resources sector focus	October 2015	Janita Pahalad
2	Conduct a gap analysis based on what climate services are currently being provided and the minimum set of services that are needed	Dec 2014	Andrew Tait
3	Review the structure, maintenance and use of the SPREP regional projects database and report to PMC	July 2015	John Marra
4	Draft an RA-V RCC-Network Implementation Plan, to be submitted to the RA-V Management Group (meeting at the WMO Congress)	May 2015	Andrew Tait
5	Review international standards on qualifications and competencies for climate services production and delivery and potential adaptation of them for the Pacific Region	October 2015	Elisabeth Holland

* Task leaders can form small teams from within and beyond the PICS Panel to assist with tasks.

Priority Recommendations from PICS Panel

The following Priority Recommendations from the PICS Panel have been drawn from the Action Plan (see separate document):

	Priority Actions	Timeline	Recommended lead agency
1	Review the Pacific Islands Meteorological Strategy (PIMS) in relation to the WMO RA-V strategic and operational	August 2015	SPREP

	plan, the Action Plan for Strengthening Climate Services in the Pacific, and regional sector strategies (e.g. water, agriculture, DRR, health, etc.)		
2	Review national strategies for delivering climate services (e.g. the establishment/formalization of National Climate Outlook Forums, NCOFs)	August 2015	All NHMSs
3	Identify countries that would like to/need to develop a national drought policy and make use of the WMO Integrated Drought Management Programme (IDMP)	May 2015	WMO (to report to 2nd meeting of the PICS Panel)
4	List all non-functional observing stations and necessary IT equipment (i.e. on outer islands)	May 2015	SPREP (presented to 2nd PICS Panel meeting)
5	Establish a Regional Training Centre for the Pacific Islands (this is a longer-term goal, but requires staged planning and interim goals)	August 2017	USP and WMO

Minutes of the 1st PICS Panel Meeting

Day 1: Friday, 15 August

Session 1: Opening & Introduction

The attendees thanked FINPAC and WMO for funding support for the meeting.

Attendees:

Janita Pahalad, BOM	Salesa Nihmei, SPREP	Ofa Fa'anunu, Tonga Met
Andrew Tait, NIWA	Samuel Mahia, PNG Met	Ueneta Toorua, Kiribati Met
Bipendra Prakash, Fiji Met	Henry Taiki, WMO	John Marra, NOAA
Philip Malsale, Vanuatu Met	Netatua Pelesikoti, SPREP	Tamara Avellan, WMO
Mafutaga Leiofi, Samoa Water Resource Division (MNRE)	Molly Powers-Tora, SPC	Elisabeth Holland, USP

AlipateWaqacelua, Fiji Met, joined the meeting on Day 2.

Session 2: Structure of the Meeting and Review of TOR

1. Elections

Chair of the panel: Dr Andrew Tait (NIWA and member of the WMO RA-V Working Group on Climate Services) was nominated by Janita Pahalad, seconded by Philip Malsale, and duly elected. Vice-chair: Mr Samuel Mahia (PNG Meteorological Service) was nominated by Netatua Pelesikoti, seconded by Andrew Tait, and duly elected.

2. Working Arrangements

Molly and Salesa took notes.

3. Review Terms of Reference

The draft TOR was thoroughly reviewed and edited. The revised TOR was accepted by the meeting attendees and has been included here as Appendix 2.

4. Presentation of draft Pacific Regional Implementation Roadmap for Strengthened Climate Services

Recalling the three overarching themes and sub-themes from the draft Pacific Regional Implementation Roadmap for Strengthened Climate Services:

1. Improve coordination, continuity and integration of projects, programmes and initiatives that support climate services at national, regional and global levels
 - i. Establish a regional platform that will lead on the issues of CS
 - ii. Set up regional and national registries for climate service projects
 - iii. Establish a RCC network
2. Strengthen the basic and core functions and capabilities of NMHSs for robust and sustained data collection & management analysis of data and quality assurance, production and dissemination of productions, research and modelling

3. Enhance avenues and modes of multi-way communication and feedback between climate services providers and users to enhance the uptake and use of relevant and tailored climate services down to the communities and individuals

These three themes are the high-level ideals/guiding principles for the PICS Panel. The Action Plan (see separate document) is aligned to these themes.

Session 3: Review of Available Strategies and Collaborations

The following regional strategies were presented and discussed, as they pertain to PICS Panel activities:

1. Pacific Islands Meteorological Strategy
2. Strategy for Climate and Disaster Resilient Development in the Pacific (SRDP)
3. WMO Regional Association V

Session 4: Regional Climate Centres and Regional and National Climate Outlook Forum

Establishment of an RCC is one of the primary reasons the PICS Panel has been established. The RCC requirements are listed here: <http://www.wmo.int/pages/prog/wcp/wcasp/RCCs.html>. The Panel will have to work through this WMO process, and have to work together with RA V Working Group for CS. The Pacific RCC will be a Network, which will have multiple nodes for the centre (ex: Southern South America) where different members will have different functions.

Mandatory RCC activities:

- Operational activities for long-range forecasting (LRF) (seasonal, monthly outlooks)
- Operational activities for climate monitoring
- Operational data services, to support operational LRF and climate monitoring
- Training in the use of operational RCC products and services

The Panel need to map out what is already being done in the region against current requirements. There needs to be clarity on the benefits of establishing an RCC for the PMC members.

The RCOF discussion was led by a presentation on the Caribbean Regional Climate Outlook Forum held in Jamaica in May 2014 and attended by Swastika (Fiji Met Service). After much discussion, it was suggested that a Pacific Regional Climate Outlook Forum could be held once a year, potentially including regional representation from a sector as well (e.g. the water resources sector). The water sector is a potential area to be included in the first RCOF.

The NCOF discussion was led by a presentation from Ofa Fa'anunu (Tonga Met Service) on their plans for establishing a NCOF (part of a pilot project funded by Canada, also involves Kiribati and PNG). Also included the sharing of experiences in Vanuatu, and in other parts of the world (e.g. Africa).

Day 2: Saturday, 16 August

Session 5: Funding Opportunities to support the Action Plan

The planned presentations were folded into the general discussion from Session 4.

Session 6: Development of an Action Plan

The entire day was devoted to the completion of tasks in the Action Plan (see separate document).

Session 7: Closure of workshop

The chair concluded by thanking everyone for their hard work over the two days and looks forward to working with the other Panel members to accomplish the tasks in the Action Plan. The meeting concluded at 4pm.

Appendix 1: Pre-Meeting Concept Note

FIRST MEETING OF THE PACIFIC ISLANDS CLIMATE SERVICES (PICS) PANEL

(Nadi, Fiji, 14 to 15 August 2014)

CONCEPT NOTE (Updated Draft 11 July 2014)

Workshop is funded by the FINPAC Project and WMO

1.0 BACKGROUND

1.1. The Pacific Meteorological Council (PMC) is a specialized subsidiary body of SPREP, established in 2011 by the SPREP meeting to facilitate and coordinate the scientific and technical programmes and activities of the Regional Meteorological Services, providing advice to the SPREP Officials Meetings on the needs and priorities of SPREP member countries and territories in relation to weather and climate, and related fields. This is supported by the Pacific Meteorological Desk Partnership (PMDP) based at SPREP. The PMDP serves as the regional weather and climate services coordinated mechanism managed by the SPREP Secretariat. The PMDP comprises of two core components, namely the development partners component and the Apia Secretariat component. The latter is made up of the Apia-based Secretariats of SPREP and WMO, and the former is a collective of technical expert institutions. The PMDP is guided by the Pacific Islands Meteorological Strategy (PIMS) 2012-2021. The PIMS activities are aligned with regional frameworks including the Pacific Island Framework for Action of Climate Change (PIFACC), the Pacific Risk Reduction and Disaster Management Framework for Action, the Pacific Plan, the WMO Regional Association V (South-West Pacific) Strategy Operating Plan (SOP) 2012-2015.

1.2. A number of actions have been taken to improve the coordination, development and provision of climate services in the Pacific Islands, the World Climate Programme; the WMO Regional Association V (South-West Pacific) Working Group on Climate Services; the Pacific Island Global Climate Observing System (PI-GCOS); the Pacific Island Global Oceans Observing System (PI-GOOS); the Island Climate Update; and the Climate and Oceans Services Programme in the Pacific (COSPPac). However, it is critical that further attention be given to organizational structures and functions at the regional level to support a systematic, regularly coordinated provision of climate services, and to align climate service activities with investments in the region.

1.3. The Global Framework for Climate Services (GFCS) established in 2009, through a high-level declaration at the Third World Climate Conference guides the development of climate services worldwide. In June 2011, the GFCS as proposed by the High-level Task Force of independent advisors was endorsed by the sixteenth World Meteorological Congress (Cg-16) with its five components or pillars, namely identified: the user interface platform; the climate services information system; the observations and monitoring component; the

research, modeling, and prediction component; and the capacity building component to address four initial priority areas (agriculture and food security, water, health and disaster risk reduction).

1.4. In August 2011, SPREP and the US National Oceanic and Atmospheric Administration (NOAA) organised a Pacific Climate Services Workshop in Majuro, the Republic of Marshall Islands, discussing a way forward for the region on climate services. The first meeting of the Pacific Meteorological Council (PMC-1) taking into consideration the outcomes of the workshop recommended that further investigation would be required on organizational structures and functions at the regional level to support climate services consistent with the GFCS, to minimize gaps and overlaps, and to align climate service activities that already exist in the region. The investigation should consider geographic, sectoral and functional core capabilities (e.g. observations and data management) as a basis for supporting the effective delivery of climate products and services. The US NOAA in collaboration with the University of the South Pacific (USP) followed this up by organising a Pacific Island Climate Services Forum (PICSF), in Suva, Fiji, in January of 2013.

1.5. The second meeting of PMC (PMC-2) in Nadi, Fiji, in July of 2013 endorsed in principle the establishment of a Pacific Islands Climate Services (PICS) Panel to serve as the PMC's Advisory Committee on climate services matters, reaffirming the critical need for a more strategic approach with greater alignment and coordination.

1.6. The recent Regional Consultation on Climate Services for Pacific Small Island States in Rarotonga, Cook Islands, in March of 2014 continued to provide an avenue for National Meteorological Services and other economic and social development sectors to discuss climate services. One of the main outcomes of the consultation is a draft Pacific Regional Implementation Roadmap for Strengthened Climate Services to guide the PMC and its members on how the GFCS and its five pillars could be implemented and realized in the region.

1.7. The first meeting of the PICS Panel aims to bring together selected experts on climate services and other social and economic development sectors, as well as relevant partners and practitioners supporting and / or using climate services, in the Pacific region. It will facilitate discussions to achieve the objectives of the meeting as outlined below.

2.0 OBJECTIVES OF THE FIRST MEETING OF THE PICS PANEL

To develop an Implementation Plan for the PICS Panel for the next 3 years that will entail the following elements:

- a) Establishing a Regional Climate Centre (RCCs) for and in the Pacific region;
- b) Development of a Regional Climate Outlook Forum (RCOF) concept and its implementation in the Pacific region;
- c) Implementation of National Climate Outlook Forums in the Pacific Island Countries;
- d) Review of existing regional strategies and frameworks in relation to climate services in the Pacific region;
- e) Conduct a gap analysis on the activities covered by existing programmes to support climate services in the Pacific region.

3.0 EXPECTED OUTCOMES OF THE FIRST MEETING OF THE PICS PANEL

- a) Improved knowledge and understanding of the PICS Panel on existing regional strategies, frameworks and priorities that could complement the implementation of the climate services development;
- b) Approval of a draft Implementation Plan for the PICS Panel for the next 3 years;
- c) Understanding on the funding opportunities that are available to implement activities of the proposed Implementation Plan for the PICS Panel for the next 3 years
- d) Next steps for establishing a RCC in the Pacific region;
- e) Next steps for the RCOF implementation in the Pacific region;
- f) Next steps on the NCOFs concept and implementation in the Pacific Island Countries.

4.0 ORGANIZATION OF WORKSHOP OF THE FIRST MEETING OF THE PICS PANEL

The workshop will be organized into 6 sessions, namely;

Session 1: Opening. The objective of session 1 is for the PMC Chair to welcome participants; the introduction of participants (if necessary); and to discuss and agree on the provisional agenda.

Session 2: Structure of the Meeting. This session will look at how the Panel will be structured and its function as per its Terms of Reference (ToR). Members will review the ToR and elect a chair or have a collective leadership.

Session 3: Review of Available Strategies and Collaboration. Members during the meeting will go through various strategic documents, for example, the Pacific Islands Meteorological Strategy (PIMS), the Strategy for Climate and Disaster Resilient Development in the Pacific (SRDP), the WMO Regional Association V (RA-V) Plan and the Roadmap to identify priorities that can be aligned to the Implementation Plan of the PICS Panel. The discussion should also include timelines and schedules of other activities or goals in the region.

Session 4: RCC, RCOF and NCOFs will be a high priority for the agenda. The session will look at the RCC requirements and decide on the next steps towards the accreditation of the RCC as well as identify the collaborators. Presentations will be made on experiences from the Caribbean RCOF and discussion on the next steps towards an RCOF in the Pacific will be held. An overview of NCOF concepts will be presented and the way forward in the Pacific will be discussed.

Session 5: Funding Opportunities for any of the plans to be developed. Considering the risk that the Panel operates on a voluntary basis and that everything is carried out in one's own time. Projects and tasks proposed by the PICS Panel will need funding to get things off the ground. This session will discuss available avenues that can support some of the priority activities of the Plan.

Session 6: Development of an Implementation Plan for the PICS Panel. This session will aim to develop a 3 year Implementation Plan for the PICS Panel. This may include the identification and allocation of tasks and task leaders and collaborators. The discussion may also include the possibility of refining the Roadmap for Climate Services to be launched by the Ministers Meeting in Tonga as the Tonga Roadmap for Climate Services. WMO guidance and support would be required.

Session 7: Closing. To conclude discussions on, and works of, the workshop.

5.0 PROVISIONAL PROGRAMME

The provisional agenda for the workshop is presented in Annex 1 to this Concept Note.

6.0 PARTICIPANTS

PICS Panel Members (WMO, NIWA, SPC, BOM, NOAA, USP, SPREP Niue Met Service, Vanuatu Met. Service, Palau Met Service, and the Samoan Water Resources Division) and Kiribati Meteorological Service, Tonga Meteorological Service and PNG National Weather Service.

ANNEX 1

FIRST MEETING OF THE PICS PANEL (Nadi, Fiji, 15-16 August 2014)

PROVISIONAL PROGRAMME (Updated Draft 05 August 2014)

Day 1: Friday, 15 August

- 09:00 – 09:15: **Session 1 - Opening ceremony**
- (i) Welcoming remarks (PMC Chair)
- 09:15 – 10:00: **Session 2 - Structure of the Meeting and Review of ToR**(PMC Chair/PICS Panel Chair)
- (i) Review of ToR
 - (ii) Election of Chair
 - (iii) Establish working Arrangements
 - (iv) Presentation of the draft Pacific Regional Implementation Roadmap for Strengthened Climate Services (Cook Islands, April 2014) - Presentation by SPREP
- 10:00 – 10:30: *Refreshment*
- 10:30 – 11:30: **Session 3: Review of Available Strategies and Collaborations**
- (i) Review strategies and highlight key areas for consideration in the Planning
 - Pacific Islands Meteorological Strategy (PIMS) (Salesa)
 - the Strategy for Climate and Disaster Resilient Development in the Pacific (SRDP)(Neta)
 - the WMO Regional Association V (RA-V) Plan (Henry)
- 11:30 – 13:00: **Session 4 - Regional Climate Centres and Regional and National Climate Outlook Forum**
- (i) Presentation on RCC Requirements (Tamara)
 - (ii) Discuss next steps for an RCC in the Pacific
- 13:00 – 14:00: *Lunch*
- 14:00 – 15:30: **Session 4 - Regional Climate Centres and Regional and National Climate Outlook Forum**
- (i) Joint Presentation from Tonga and Fiji on their experience from the Caribbean RCOF in June 2014 (Swastika and Selu –via tele/videoconference) (15 min plus discussion)
 - (ii) Presentation on RCOF set-up and experiences around the world(Tamara)
 - (iii) Discuss next steps towards a RCOF
- 15:30 – 16:00: *Refreshment*
- 16:00 – 17:30: **Session 4 - Regional Climate Centres and Regional and National Climate Outlook Forum CONT**
- (i) Presentation from WMO on the NCOF and experiences around the world(Tamara)

- (ii) Discussion on next steps for the NCOFs (Tonga, PNG and Kiribati)

Day 2: Saturday, 16 August

- 09:00 – 10:30 **Session 5 – Funding Opportunities to support the Action Plan (10 min each)**
- (i) Presentation from WMO on the Canadian Fund and what it will support (Tamara)
 - (ii) Verbal presentation from SPREP and activities it can support under FINPAC (Neta/Salesa)
 - (iii) Verbal presentation from NOAA and activities they can support that are aligned (John)
 - (iv) Verbal presentation from COSPPac and activities they can support that are aligned (Janita)
 - (v) Verbal presentation from USP and activities they can support that are aligned (Beth)
 - (vi) Discussion on other Avenues that can support the implementation of the Action Plan
- 10:30 – 11:00 *Refreshment*
- 11:00 – 13:00 **Session 6 - Development of an Implementation Plan for the PICS Panel**
- 13:00 – 14:30 *Lunch*
- 14:00 – 15:00 **Session 6 - Development of an Implementation Plan for the PICS Panel CONT"**
- (i) Action Plan and Task allocation and task leaders
- 15:00 – 15:30 *Refreshment*
- 15:30 – 16:00 **Session 6 - Development of an Implementation Plan for the PICS Panel CONT"**
- (i) Discuss the Action Plan for Launching in Tonga
- 16:00 - 17:00 **Finalise all outstanding Issues**
- 17:00 **Session 7 - Closure of workshop**

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Appendix 2: Revised Terms of Reference

Pacific Islands Climate Services Panel Terms of Reference

1. Introduction

1.1 The Pacific Island Climate Services Panel (PICS Panel) was endorsed by the Second Meeting of the Pacific Meteorological Council (PMC-2) to serve in the capacity of an advisory committee to the Pacific Meteorological Council (PMC) on climate services matters in the Pacific region (https://www.sprep.org/attachments/Publications/PMC-2_Meeting_Report.pdf).

2. Purpose

2.1. The purpose of the PICS Panel is to provide technical advice to the PMC on matters related to the implementation of GFCS and the strengthening and coordinating of climate services at the community, national and regional levels.

3. Role and Responsibility of the PICS Panel

3.1. The roles and responsibilities of the PICS Panel include the provision of technical advice to the PMC on the followings:

- a) The strengthening, coordination, continuity and integration of current and future programmes, projects and initiatives that support climate services at the community, national and regional levels.
- b) The strengthening of the basic and core functions and capabilities of National Meteorological and Hydrological Services (NMHSs) for robust and sustained data collection and management, analysis of data and quality assurance, production and dissemination of products, research and modeling.
- c) The enhancement of avenues and modes of multi-way communication and feedback between climate services providers and users to enhance the uptake and use of relevant and tailored climate services down to the communities and individuals.
- d) The implementation of climate services related priority activities outlined in the Pacific Island Meteorological Strategy (PIMS) 2012-2021.
- e) The development, implementation and monitoring of an Action Plan for Strengthening of Climate Services in the Pacific based on the "Pacific Regional Implementation Roadmap for Strengthened Climate Services".

- f) The implementation of climate services related priority activities consistent with those of the RA V and the Pacific Islands Climate Services Forum (PICSF) and Centres of Action (CoA).
- g) The reviewing of regional Climate Services needs and in particular in the areas of capacities to deliver climate predictions and projections, data services, research and development, coordination, training, and implementation of GFCS, Regional Climate Centres (RCC), Regional Climate Outlook Forums (RCOFs) and National Climate Outlook Forums (NCOFs) for PMC members and partners to endorse.
- h) The regular reporting to the PMC members of the progress of the PICS Panel.

4. Membership

4.1. The PICS Panel membership will comprise of the climate services community of practice. There will be a core membership of a minimum of eight to a maximum of ten, but at the same time it remains open-ended to allow for the PMC members to volunteer their experts to participate in the PICS Panel activities and for the PICS Panel to invite experts either from its PMC members or its partners or climate users to its meetings and discussions. The core membership of the Panel will compose as follows by representation of reference bodies related to climate services development:

- a) Roving 3 member Representatives of the PMC to be selected by PMC to be on the Panel at every session of PMC
- b) 1 member from the WMO RA V Working Group on Climate Services, 4 members in total from regional organisations and institutions supporting climate observations, research, forecasting, operational services, information management and capacity building in the Pacific region.
- c) 1 representative from the climate services user community from a national agencies and to be selected by PMC at its sessions.
- d) 1 representative of the World Meteorological Organisation.

4.2. The core membership of the PICS Panel is given in Annex 1, as decided by the PMC special session in Rarotonga, Cook Islands on 4 April 2014.

4.3. The PICS Panel will appoint its Chair, and if necessary a vice-Chair.

4.4. The PICS Panel may invite experts either from its PMC members or its partners or climate users to its meetings and discussions.

4.5. The PICS Panel may establish Task Team(s) to carry out specific time bound task(s) for limited time period.

4.6. Meetings of the PICS Panel shall be coordinated and convened by the Chair, with the support of SPREP/Pacific Meteorological Desk Partnership (PMDP).

5. Review and Approval of Terms of Reference

5.1. The PICS Panel may revise its TOR where necessary.

5.2. The PMC to consider and approve amendments to the PICS Panel TOR including its core membership.

Annex 1: PICS Panel Core Members

Representatives	Number	Institutions
Roving 3 member Representatives of the PMC to be selected by PMC to be on the Panel at every session of PMC	3	Niue, Palau, Vanuatu
Member of RA V Working Group on Climate,	1	NIWA
Members from regional organisations and institutions supporting climate observations, research, forecasting, operational services, information management and capacity building in the Pacific region.	4	NOAA, BoM, SPC, USP
Representative from the climate services user community from a national agencies and to be selected by PMC at its sessions	1	Samoa Water Resources Division
Representative of the World Meteorological Organisation	1	WMO