

Appendix 1: New Zealand and partners' support towards implementing the Pacific Islands Meteorological Strategy (PIMS), 2012-2021'

Project Name	Lead Implementing Agencies	Partners	PIMS Priority Areas for Action	PKO	Project Outcomes
Humanitarian and Disaster Management, Meteorological Forecasting and Monitoring for the annual South West Pacific Cyclone Season	MetService (NZ) ISAC Asia, Fiji Met Service PICTS NMS	NZ Ministry of Foreign Affairs & Trade (MFAT) Aid Programme	* Improved weather services, in particular, aviation marine and public services * Improved end-to-end MHEWS	1,2,3,4,5,10,12,13	Improved MHEWS for severe weather systems, large waves and swells associated with tropical cyclones
Severe Weather Forecasting - Disaster risk reduction Demonstration Project (SWFDDP)	MetService PICTS NMS	WMO, Met Office UK, US NOAA NWS ECMWF, Japan Met Agency (JMA) Bureau of Meteorology	* Improved weather services, in particular, aviation marine and public weather services * Improved end-to-end MHEWS	1,2,3,4,5,10,12,13	Improved MHEWS for severe weather systems, large waves and swells not associated with tropical cyclones
US NOAA PI GCOS Climate Science and Technica Support Project (SCITECH TSP)	MetService NWS (NZ) Boulder Scientific, Otago	US NOAA GCOS Program Selected PICTS NMSs Boulder Scientific, Otago	* Improved weather services, in particular, aviation marine, and public services * Enhanced infrastructure (data and information services) for weather, climate and water * Enhanced development of climate service	1,3,5,6,7,9,10,12,13	Pacific Islands GCOS GUAN and GSN network improvements Trace gas measurements Pacific Islands Climate Research Pacific Islands climate decision support tools (ICU, SPRAT, etc.) Enhanced communication between GCOS GUAN and user communities
Met Office UK Pacific Trust Fund (PF)	Met Office UK SPREP MetService	Kiritati Met Service Tavaki MetService Cook Islands Met Service Pitcairn Islands	* Improved weather services, in particular, aviation marine and public services * Enhanced infrastructure (data and information services) for weather, climate and water * Enhanced development of climate service	1,3,5,6,7,10,12,13	GUAN and GSN network improvements Trace gas measurements Pacific Islands Climate Research Pacific Islands climate decision support tool (ICU, SPRAT, etc.)
NZ-US Joint Commission on Science and Technology Cooperative Meeting (JCM)	NZ Ministry of Business, Innovation & Employment (MBIE) NWA MetService ESR NZ US NOAA	NZ and US Science, Research & Technology (SR&T) sector etc.	* Enhanced infrastructure (data and information services) for weather, climate and water * Enhanced development of climate service	6,7,8,10,12,13	GUAN and GSN network improvements Trace gas measurements Pacific Islands Climate Research Pacific Islands climate decision support tool (ICU, SPRAT, etc.)
Restoration and Upgrade of Bauerfield GUAN Facility, Bauerfield Airport Port Vila, Vanuatu	MetService Vanuatu Meteorology and Geohazards Department (VMGD)	US NOAA GCOS Program	* Improved weather services, in particular, aviation marine and public services * Enhanced infrastructure (data and information services) for weather, climate and water * Enhanced development of climate service	1,2,3,7,10,12,13	Pacific Islands GUAN improvement Meet ICAO Part 174 obligations QMS ISO 9001 certified
Island Climate Update	SPREP NWA	Pacific Islands NMSs, BOM, Meteofrance, NOAA, IRL, UKMO, MFAT/NZ Aid Programme	* Improved end-to-end multi-hazard early warning services * Enhanced development of climate services * Capacity Development	2, 3, 4, 5, 6, 8, 10, 11, 12	Improved climate forecasts products and national capacity
Island Climate Update: Development of WaterWatch & CycloneWatch products	NWA	Pacific Islands NMSs	* Enhanced development of climate services * Improved end-to-end multi-hazard early warning services	3, 4, 5	Improved regional climate forecast products
Fiji Meteorological Service Climate & river monitoring upgrade programme	Fiji Meteorological Service NWA	Fiji Government	* Improved weather services * Improved end-to-end multi-hazard early warning services * Enhanced infrastructure for weather, climate and water * Enhanced development of climate services * Capacity development	2, 3, 4, 5, 6, 7, 10, 11	Improved climate monitoring network to underpin weather early warning, climate and water services Capacity development at national level
Water Authority of Fiji meteorological monitoring upgrades	WAF NWA	Fiji Government	* Enhanced infrastructure for weather, climate and water * Enhanced development of climate services * Capacity development	6, 7, 10, 11	Improved monitoring network to underpin water services Capacity development at national level
Water Authority of Fiji Network design training	WAF NWA	Fiji Government	* Enhanced infrastructure for weather, climate and water * Capacity development	5, 6, 7, 8, 9, 10	Improved monitoring network to underpin water services Capacity development at national level
Fiji Data Rescue and Digitisation	Fiji Met Service NWA		* Enhanced infrastructure for weather, climate and water * Enhanced development of climate services * Capacity development	6, 8, 10	Improved climate services Capacity development at national level
Hydrological water resource assessment	Fiji Electricity Authority NWA	FMS	* Enhanced infrastructure for weather, climate and water * Enhanced development of climate services * Capacity development	6, 7, 8	Improved climate monitoring network to underpin energy security Improve climate data management and applications Capacity development at national level
Samoa Integrated Climate Change in the Agriculture and Health Sector	MNRE (Samoa Met Division) NWA	UNDP	* Improved weather services * Improved end-to-end multi-hazard early warning services * Enhanced infrastructure for weather, climate and water * Enhanced development of climate services * Capacity development	3, 4, 6, 7, 8, 10, 11, 12, 13	Improved climate monitoring network to underpin weather early warning, climate and water services Improve climate data management and applications Capacity development at national level Operational fire weather warning system
Integration of Climate Change Risks and Resilience into Forestry Management in Samoa	MNRE (Samoa Met Division) NWA	UNDP	* Improved weather services * Improved end-to-end multi-hazard early warning services * Enhanced infrastructure for weather, climate and water * Enhanced development of climate services * Capacity development	3, 4, 6, 7, 8, 10, 11, 12, 13	Improved climate monitoring network to underpin weather early warning, climate and water services Improve climate data management and applications Capacity development at national level
Samoa rainfall gauge upgrade	MNRE (Samoa Met Division) NWA	UNDP	* Improved weather services * Improved end-to-end multi-hazard early warning services * Enhanced infrastructure for weather, climate and water * Enhanced development of climate services * Capacity development	3, 4, 6, 7, 8, 10, 11, 12, 13	Improved climate monitoring network to underpin weather early warning, climate and water services Capacity development at national level
Samoa hydrometric data auditing and training.	NWA		* Enhanced infrastructure for weather, climate and water * Capacity development	5, 6, 7, 8, 10, 11	Improved water monitoring Capacity development at national level
Samoa telemetry for river and rainfall gauges	MNRE (Water Resource Division) NWA	MNRE (Samoa Met Division)	* Enhanced infrastructure for weather, climate and water * Capacity development	3, 4, 5, 6, 7, 8, 10, 11	Improved water monitoring Capacity development at national level
Fiji Water rain gauges	NWA	Fiji Met Service	* Enhanced infrastructure for weather, climate and water	3, 4, 5, 6, 7, 8, 10, 11	Improved water monitoring Capacity development at national level
Regional Expert Roundtable on Climate Services for Agriculture and Food and Nutrition Security	FAO, SPREP, SPC, NIWA, PICTS NMSs		* Enhanced development of climate services * Capacity development	4, 6, 10, 12, 13	Improved direction for climate services for agriculture
Solomon Islands SWOCC Project	Solomon Islands Met Service NWA	UNDP	* Improved weather services * Improved end-to-end multi-hazard early warning services * Enhanced infrastructure for weather, climate and water * Enhanced development of climate services * Capacity development	3, 4, 6, 7, 8, 10, 11, 12, 13	Improved climate monitoring network to underpin weather early warning, climate and water services Improve climate data management and applications Capacity development at national level
UNCTBT AWS servicing support for Rarotonga & Nadi	ESR NWA	UNCTBT	* Enhanced infrastructure for weather, climate and water * Enhanced development of climate services	3, 4, 6, 7, 8, 10, 11, 12, 13	Monitoring support for global radio-nuclide monitorings
Kororae Enhanced tide charts with seasonal sea-level forecasting	NWA	Kororae Island Resource Management Authority	* Improved end-to-end multi-hazard early warning services	3, 4, 5	Improved early warning and coastal services Capacity development at national level
PI Met and Hydrology technical support	NWA	PICTS NMSs and NHIs	* Capacity development	3, 6, 7, 10	Capacity development at national level
Extreme sea level analysis and forecasting	NWA	US NOAA/East-West Centre, University of Hawaii, Bureau of Meteorology	* Enhanced development of climate services * Improved end-to-end multi-hazard early warning services	2, 3, 4, 5	Improved climate services products