

Attachment 1: **Implementation and Performance Goals for PIMS M&E**

PKO	National Action (example)	Regional Action (example)	Implementation Goals (example)	Performance Goals
1. Aviation weather services in the PICTs¹ region are improved.	<p>Develop and Implement QMS² for aviation weather services.</p> <p>Improve quality and availability of METARs, TAFs and SIGMET information.</p>	<p>Support, assist and coordinate development and implementation of national QMS for aviation weather services</p> <p>Support and assist PICTs' NMSs to access and implement verification schemes for METARs, TAF and SIGMET information.</p>	<p>X% of PICTs' NMSs³ have QMS for aviation weather services in place by 2021.</p> <p>X% of PICTs' NMSs have gone through competency assessment of AMO and AMF.</p>	<p>Improved ICAO⁴/USAOP audits (Air Navigation) and deficiencies (http://www.bangkok.icao.int/apac_project/def/def.htm) between baseline year (2006-2012) and 2021.</p> <p>Increased number PICTs' NMSs have established QMS and achieving certification to ISO⁵ 9001 2008 Quality Management Standard between baseline year (2010, WMO Survey Results) and 2021.</p> <p>Increased number of personnel for each PICT NMS certified as AMO and AMF between baseline (31 December 2013) and 2021.</p>
2. Marine weather services in the PICTs' region	<p>Develop marine weather assessments and act on recommendations from WMO⁶/JCOMM⁷.</p>	<p>Support, assist and coordinate assessments and recommendations from WMO/JCOMM.</p>	<p>X% of PICTs have performed initial assessments based on JCOMM standards and</p>	<p>Based on standardized verification tool for weather services, marine forecast accuracy has reached targeted goal of X% by 2021</p>

¹ PICTs – Pacific Island Countries and Territories

² QMS – Quality Management System

³ NMSs – National Meteorological Services

⁴ ICAO – International Civil Aviation Organization, USAOP - Universal Safety Audit and Oversight Program

⁵ ISO – International Standard Organization

⁶ WMO – World Meteorological Organization

are improved.	Develop QMS for marine weather services.	Assist PICTs' NMSs to develop or access forecast verification schemes based on WMO verification standards and QMS.	have begun to implement recommendations. X% of PICTs' NMSs have marine weather services QMS in place by 2021.	Based on targeted surveys of marine forecast users, the effectiveness and dissemination of marine forecast have improved over the strategy timeframe.
3.Public weather services in the PICTs' region are improved.	Implement ways to improve the presentation and usefulness of weather information to the public	Perform user needs assessment for regional public users. Assist and coordinate capacity training in communication and public weather forecasting.	X% of PICTs' NMSs have had training sessions: ➤ on public weather services forecasting by 2021; and ➤ Communication by 2021.	Based on standardized verification tool for weather forecasting, public weather forecast service accuracy has reached targeted goal of X% by 2021. Public survey on effectiveness and dissemination of public weather forecasting - baseline and 2021 comparison.
4.MHEWS in the PICTs region are implemented and improved.	Develop hazard response plans and SOP ⁸ for MHEWS at national and community levels	Promote regional coordination to support MHEWS ⁹ development and implementation. Assist and coordinate development of PICTs' NMSs plans and SOP.	X% of PICTs' NMSs have MHEWS in place by 2021. X% of PICTs' NMSs have EWS ¹⁰ /MHEWS integrated into their emergency management systems.	Based on initial assessments and country reports on specific warning systems e.g.(Hyogo/DRR ¹¹ reports), PICTs' NMSs have improved capability for EWS/MHEWS.
5.Improved early warning systems for floods.	Establish and/or strengthen institutional capacity for EWS-Floods.	Promote regional coordination to support EWS-Floods development and implementation.	X% PICTs' NMSs have EWS - Floods in place by 2021. X% PICTs have EWS/MHEWS	Based on initial assessments and country reports on specific warning systems e.g.(Hyogo/DRR ¹² reports), PICTs' NMSs have improved capability for EWS/MHEWS.

⁷WMO/IOC-UNESCO Joint Commission for Oceanography and Marine Meteorology

⁸ SOP – Standard Operating Procedures

⁹ MHEWS – Multi-hazard Early Warning System

¹⁰ EWS – Early Warning System

¹¹ DRR – Disaster Risk Reduction

¹² DRR – Disaster Risk Reduction

			integrated into their emergency management systems.	
6. Climate information and prediction services are improved.	<p>Develop operating procedures for climate information and drought prediction at national and community levels.</p> <p>Develop national action plan for climate services.</p>	<p>Promote, develop and implement a plan for regional coordination of climate services.</p> <p>Promote and assist PICTs' NMSs to develop national action plan for climate services.</p> <p>Coordinate stocktaking of climate services in PICTs NMSs and the PICTs region as a whole.</p>	<p>X% of PICTs have developed operating procedures for climate information and drought prediction</p> <p>A plan for regional coordination of climate services developed and implemented.</p> <p>X% of PICTs have developed and started implementing national action plan for climate services</p>	<p>Based on targeted survey and COSPPac¹³ reports, climate services have improved between baseline pre 2012 and 2021.</p> <p>PACC-SAP country reports show improvement between baseline and 2021</p>
7. Improved quality of observations and coverage of networks in the Pacific Islands region.	Provide and sustain adequate observations with the required quantity and quality for all meteorological services (including climate)	Coordinate stocktaking and evaluation of existing national and regional observation networks.	X% of PICTs' NMSs have performed gaps/needs analysis of weather and climate observation networks compared to WIGOS ¹⁴ , GCOS ¹⁵ and WIS ¹⁶ standards.	All PICTs' NMS have addressed gaps in observation network assessments and made improvements to the weather and climate observation networks compared to WMO/WIGOS standards (e.g. station density increased by 10%).
8. Historical Climate data is preserved	Develop and implement national programmes/plans for climate data rescue and	Coordinate and assist PICTs' NMSs to develop and implement national	X% of PICTs NMSs have data capture and preservation plans and	Based on targeted survey, COSPPac and PACC-SAP ¹⁷ reports, climate and atmospheric data preservation, archiving and management

¹³ COSPPac – Climate and Oceans Service Programme in the Pacific

¹⁴ WIGOS – WMO Integrated Observing System

¹⁵ GCOS – Global Climate Observing System

¹⁶ WIS – WMO Information System

¹⁷ PACC-SAP – Pacific-Australia Climate Change Science for Adaptation Planning

	preservation	programmes/plans	implement them.	has improved between baseline pre 2012 and 2021. Climate data user surveys show improvement in data accessibility and capture over the strategy timeframe
9. Atmospheric chemistry observations and assessment meet regional needs.	GAW ¹⁸ Observations made available to NMSs.	Coordinate network assessments.	All applicable PICTs' NMSs have access to air chemistry data and information.	Use Implementation goal
10. Regional and NMSs are more capable and effective.	Develop strategy and operation plans for PICTs' NMSs. Develop legislation for PICTs' NMSs.	Coordinate the implementation and monitoring of PIMS ¹⁹ 2012-2021 - regional strategy for building capacity of PICTs' NMSs. Coordinate the review or update of PIMS.	Summarize PICTs' NMSs implementation of PIMS by each PKO ²⁰ . Number of actions implemented across the region (e.g. Number of plans, legislation, training, assessments, etc).	Summarize performance of PKOs across the region. For example meteorological services have improved by X% based on meeting performance goals.
11, 12 and 13. Education, training, capacity building, donor funding and strategic partnerships	Promote meteorological education opportunities at the primary, high school, university undergraduate and post-graduate levels. PICTs NMSs and PMDP ²¹ partners to Inform	Coordinate and support national activities at the regional level. Securing opportunities for common strategies, funds and partnerships.	Partnerships increased by X% over the strategy timeframe. Education opportunities increased by X% over the strategy	Based on survey results, education opportunities and number of qualified professionals in met services have increased by x% between baseline pre 2012 and 2021. Satisfaction survey as part of internal survey of NIMS between baseline and 2021

¹⁸ GAW – Global Atmospheric Watch

¹⁹ PIMS – Pacific Islands Meteorological Strategy

²⁰ PKO – Pacific Key Outcomes of PIMS

²¹ PMDP – Pacific Meteorological Desk Partnership

PMC – Pacific Meteorological Council

<p>are improved throughout the region</p>	<p>PMDP/SPREP Secretariat of projects related to weather and climate.</p> <p>Build national level partnerships with donors' agencies</p>		<p>timeframe.</p> <p>Donor funding increased by X% over the strategy timeframe</p>	<p>Overall assessment of donor funding impact on improving met services</p>
<p>14. The PMC is an effective and efficient body</p>	<p>NMSs participation in the PMC.</p>	<p>Organize PMC meetings.</p>	<p>Report on PMC meetings, workgroups, role in coordination and success with bringing added capacity to individual PICT NMS.</p>	<p>Simple survey results from each PICT NMS at beginning, middle and end of strategy show improvement.</p> <p>Survey results from PMC meetings</p> <p>Use results from PKO 10 to measure overall performance of the PIMS/PMC</p>

