Template for CREWS Project Status Report

Project Title	Strengthening Hydro-Meteorological and Early Warning Systems in the Pacific (CREWS Pacific)
Project Reference	CREWS/RegProj/04/Pacific
Reporting Period	June - November 2018
Reporting Focal Point	Lina Sjaavik (Isjaavik@wmo.int)
Project Status Overview	Progress since last report: - Pacific SIDS Project Steering Committee took place in Tonga 11 October 2018; - The meeting approved the annual implementation plan, and requested additional development of strategic plans for additional countries (now: Fiji, Federated States of Micronesia, Kiribati, Nauru, Palau, Republic of Marshall Islands, Tokelau, Tonga and Tuvalu); - The meeting requested that the funds originally allocated to an Automatic Weather Station (AWS) in Tokelau would be redirected to emergency communication; - The roadmap for the implementation of high-resolution numerical weather prediction was finalized in July 2018; - The project co-funded the Pacific Island Climate Outlook Forum (PICOF) in Fiji in October 2018; - Support to the Severe Weather Forecasting and Disaster Risk Reduction Demonstration Project's Regional Subproject Management Team Meeting in Noumea, New Caledonia in July 2018; - Initial introduction to impact-based forecasting during the Tropical Cyclone Committee in Noumea, New Caledonia in July 2018; - The Tuvalu drought policy is being finalized (Oct 2018)
	Several important activities are scheduled to take place in November 2018, including: - The initial planning meeting of Fiji FFGS - Initial collaboration visit for the inclusion of radar data into Fiji FFGS - Training in Numerical Weather Prediction (NWP) (Fiji Meteorological Service)

Project Activities Contributing to CREWS Outputs -National Projects

Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov 2018
 1.1 Regional assessment of public and private capacities, gaps and needs with respect to MHEWS governance, product generation and service delivery ToRs established. Consultancy to commence early 2019 	Q1 2019- Q4 2019	5%	10%
1.2 In-country assessments to establish baselines (in terms of both public and private capacities, gaps and needs with respect to MHEWS governance, product generation and service delivery) - ToRs developed. National assessments planned for Cook Islands, Fiji, Kiribati, Nauru, Niue, Tuvalu, Tokelau	Q1 2019- Q4 2019	10%	10%
1.3 Regional workshops to increase awareness of national MHEWSs and regional/global support mechanisms, and the understanding by MHEWS stakeholders of their respective roles and responsibilities. - Will be based on the above consultations	Q3 2019	0%	0%
 1.4 Map and facilitate the enhancement of existing, or the establishment of new bilateral and multilateral coordination and communication processes, mechanisms and arrangements among MHEWS stakeholders at regional level ToRs developed Mapping scheduled for 2019 	Q1 2019- Q4 2019	0%	10%

CREWS Output 2: Access and use of hazard and risk information			
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov 2018
2.1: Implementation of a high-resolution NWP mesoscale model in Fiji	Q3 2018- Q4 2020	10%	15%

in July 2018 Both BMKG (Indonesia) and BOM (Australia) are working to make high-resolution NWP LAM data from their models available to FMS Initial training on NWP global data planned for RSMC Nadi staff during 26-30 November 2018 2.3 Reseased for FMS and RSMC Nadi to high-quality NWP products and relevant support tools 24 2020 Ecchart tool 2.3 RSMC Nadi website and portal upgraded Activity planned for 2019 2.4 Implementation of Fiji FFGS The agreement with HRC for procurement and delivery of FFGS was signed in April 2018. The first step towards implementing the NWP mesoscale model took place with the expert mission to Fiji in May 2018. The Initial Planning Meeting for Fiji FFGS will take place in Nadi, Fiji 12-14 November 2018, and radar ingestion will take place the following week. 2.5: Impact-based coastal inundation forecasting in Tuvalu and Kiribati Terms of reference developed with the Pacific Community (SPC). The initiation of project implementation under this output is pending the closure of Fiji Coastal Inundation Forecasting Demonstration Project. 2.6 Nowcasting products and system (develop and apply models) as agreed by participating Q3 2019-Q4 2020 2.7 CAP Jumpstart workshops Activity planned to commence in 2019 2.7 CAP Jumpstart workshops Workshops took place in Niue, Palau, Tuvalu, Fiji, Federated States of Micronesia, Nauru and Papua New Guinea in July 2017 2.8 Regional Climate Outlook Fora Co-funding Pacific Island Climate Outlook Forum in Fiji October 2018 2.9 National Climate Outlook Fora Q1 2018-10% 10% 10% 10% 10% 10% 10% 10%	The development of a roadmap for a high-resolution NWP mesoscale in Fiji was completed			
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		_	10%	10%
	- Support to Fiji NCOF (Feb 2018) - Further NCOFs will be supported based on country requests	Q+ 2020		

2.10 National drought consultations - National drought consultations took place in Kiribati and Tuvalu in December 2017. Drought policies are being finalized in November 2018.	Q4 2017- Q4 2018	70%	90%	
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CREWS Output 3: Improvement of NMHSs service delivery	Outrout	Duaguaga	Duague
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov 2018
3.1 In-country training workshops on forecasting and warning services for severe weather - Activity is delayed as no trainer has been available to carry out the training. Communication is on-going with NZ Met Service to identify trainers	Q4 2018- Q4 2019	0%	0%
3.2 Other capacity building initiatives for NMHS - Fellowship for two staff members from RSMC Nadi	Q2 2018- Q2 2020	0%	25%
 3.3 Regional workshops to initiate impact-based forecasting with relevant stakeholders and implement the WMO Strategy for Service Delivery Initial presentation took place during the Severe Weather and Disaster Risk Reduction Demonstration Project (SWFDDP) regional subproject management team Regional workshop was originally planned to take place in Solomon Islands 18-22 February, but will be rescheduled due to forecasters availability during tropical cyclone season. 	Q3 2017- Q4 2020	5%	5%
3.4: National workshops to initiate impact-based forecasting - To follow the regional workshop	Q2 2019- Q4 2020	0%	0%
3.5: Capacities of the Regional Centres/NMHSs targeted by the Project to deliver data, products and services and incorporate feedback are developed.	Q4 2018- Q4 2020	0%	0%
3.6 In-country workshops on the identification of best information dissemination pathways for various end users and enhancement of communication channels at national level (TV, mobile phone apps, websites, social media) following identified gaps - Fiji TV Weather presenter workshop took place in October 2017	Q3 2017- Q4 2020	20%	20%
3.8 Community-based mechanisms and activities to prepare and respond to impact-based forecasts and risk-informed warnings are in place	Q1 2019- Q4 2020	0%	0%

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CREWS Output 4: Development of long-term service delivery strategies and developm	ent plans fo	r NMHS	
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov 2018
4.1: Development of long-term strategic plan for FMS/RSMC Nadi - Final draft of strategic plan for Fiji submitted to WMO in January 2018. Following discussions with FMS, the validation workshop has been postponed to Q1 2019	Q1 2017- Q4 2018	90%	90%
4.2: Development of long-term strategic plans for targeted NMHS	Q1 2017- Q4 2018	10%	15%
 The ToRs are developed for the strategic plans Kiribati, Tuvalu, Tonga, Republic of Marshall Islands (RMI). WMO is currently processing the consultancy agreements for the consultants to develop the plans; Consultancies for Kiribati and Tuvalu are scheduled to commence in November 2018; Tonga and FMS are still in discussion with the NMHS Following the Project Steering Committee in October 2018 Federated States of Micronesia, Nauru, Samoa, Palau and Tokelau are also included in the pipeline for strategic planning documents 			
 4.3: Development of Meteorological Bills for targeted NMHS The ToRs are developed WMO is currently processing the consultancy agreements for the consultants to develop the bills. 	Q1 2017- Q4 2018	10%	10%

CREWS Output 5: Procurement and installation of high priority observation and informatechnology (ICT) equipment	nation and o	communica	tions
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov 2018
5.1 Procurement and installation of HPC for implementation of NWP LAM in Fiji Meteorological Service/RSMC Nadi - The expert mission to Fiji to identify the needs and capacities for installation of HPC took place in May 2018.	Q1 2018- Q4 2020	10%	10%

5.2 Assessment and upgrading of communication system between RSMC Nadi and the NMHSs	Q3 2018-	0%	5%
(under the SWFDDP).	Q4 2020		
- The needs of the NMHS have been preliminary identified, and the procurement process			
started in November 2018			
- The project supported the WIGOS/GCOS workshop that took place in Fiji in October			
2017, and further identified regional observation needs.			

CREWS Output 6: Preparedness for response plans with operational procedures for dissemination, readiness to act with regular simulation exercises			
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov 2018
 6.1 Community mechanisms and activities to prepare and respond to impact-based forecasts and warnings are in place Agreement prepared for signature in November 2018 Activity to commence in early 2019 	Q1 2019- Q4 2020	0%	0%

CREWS Output 7: Targeted education and public awareness programmes available for warning systems and related public action				
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov 2018	

CREWS Output 8: Activities promoting gender equality in all aspects of early warning systems			
	Output	Progress	Progress
Project Outputs and Estimated Progress to Date	Start &	by June	by Nov

	End Date	2018	2018
8.1 Targeted NMHS assess their capabilities to include gender equality in EWS	Q1 2018-	10%	20%
- ToRs developed for the assessment of gender inclusions in EWS	Q4 2020		
8.2 Female staff in targeted NMHS have been trained on women in leadership	Q3 2018	0%	0%
- Training rescheduled for 2019			

6.1 REGIONAL OUTPUTS

CREWS Regional Output A: Assessments of institutional capacities of regional centers alignment with other programmes socio-economic benefits	to meet NN	1HSs' needs	,
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov 2018
Project output a.1: Assessment of Capacities and Needs of FMS/RSMC Nadi - An expert mission to Fiji took place in May 2018. The Expert Mission assessed the current capacity and capabilities of FMS and RSMC Nadi to provide services to Fiji and other countries served by RSMC Nadi.	Q1 2018- Q4 2020	80%	

REWS Regional Output B: Training for regional WMO and intergovernmental organizations to provide regional limate/weather services			
Project Outputs and Estimated Progress to Date		Progress by June 2018	Progress by Nov 2018

Funding Spent	USD 279,000 (CREWS MDTF)
	USD 419,310 (Canada CREWS)

-	Changes in Organization and	The project outputs have been slightly updated since June 2018 to better reflect the planned activities under the project.
	Operating Procedures, Project Viability and Sustainability	The project has further strengthened its collaboration with other relevant projects for hydrometeorological development, demonstrated by the co-organization of the Project Steering Committee the UNDP Disaster in Pacific Small Island States (RESPAC) project, and coordination with the Australian Climate and Oceans Support Programme in the Pacific (COSPACC).
-	Lessons Learned	PSC-2 requested further investments in the region, highlighting that several of the activities planned for Fiji, Kiribati and Tuvalu including coastal inundation forecasting, and flash flood guidance system could be replicated in other countries and territories across the Pacific region.
-	Documents	Fiji Mission Report including Roadmap for Implementation of Mesoscale NWP in Fiji