

## CREWS Project Status Report: Pacific Region

1	<b>Project Title</b>	<b>Strengthening Hydro-Meteorological and Early Warning Systems in the Pacific (CREWS Pacific)</b>
2	<b>Project Reference</b>	CREWS/RegProj/04/Pacific
3	<b>Reporting Period</b>	December 2017-June 2018
4	<b>Reporting Focal Point</b>	Lina Sjaavik (lsjaavik@wmo.int)
5	<b>Project Status Overview</b>	<p>The Pacific CREWS Project (co-funded by the CREWS Initiative and Environment and Climate Change Canada (ECCC)) has made significant progress in setting up the necessary structures for the following main activities:</p> <ul style="list-style-type: none"> <li>- Impact-based coastal inundation forecasting: An agreement with the Pacific Community for the development of Impact-based Coastal Inundation Forecasting for Kiribati and Tuvalu;</li> <li>- Flash Flood Guidance System (Fiji) an agreement has been signed (April 2018) with the Hydrological Research Center (HRC) for the development of a Flash Flood Guidance System in Fiji.</li> </ul> <p>In May 2018 an expert mission to Fiji Meteorological Service (FMS) and the Regional Specialised Meteorological Centre in Nadi (RSMC-Nadi) took place. The expert mission was comprised of experts from WMO, Australian Bureau of Meteorology (Bom), New Zealand Met Service, the Indonesian BMKG, and the Secretariat of the Pacific Environment Programme (SPREP), with the purpose of i) gaining buy-in from the Fijian government in support of the project and strengthening FMS and RSMC Nadi, and; ii) to assess the current capabilities and capacities of RSMC Nadi. This expert mission contributes to the provision of services from RSMC Nadi to the Pacific Island Countries (PICs) it serves and will contribute to the development of a flash flood guidance system (FFGS) for Pacific Fiji and the Severe Weather Forecasting Demonstration and Disaster Risk Reduction Project (SWFDDP) for the Region.</p> <p>Moreover the strategic planning documents for Fiji, Kiribati, Tuvalu, Tonga, and Federated States of Micronesia in process. While the Strategic Plan for Fiji will be finalized during a stakeholder validation workshop in September, the other strategic planning documents are in their initial phases and will be completed by November 2018. The consultants have also been tasked with assessing EWS gaps and needs in-country, including a strong gender focus.</p>

### CREWS Output 1: Assessments of NMHSs capacities, user needs, alignment with other programmes socio-economic benefits

Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by Nov 2017	Progress by June 2018
<p><i>Project output 1.1: Assessment of Capacities and Needs of targeted NMHS including gender considerations.</i></p> <p>- <i>ToRs for assessments of NMHS developed</i></p>	Q3 2017-Q4 2018	15%	15%

### CREWS Output 2: Access and use of hazard and risk information

Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by Nov 2017	Progress by June 2018
<p><i>Project output 2.1: Global/regional/national data products are available for RSMC Nadi</i></p> <p>- <i>Expert mission to Fiji in May 2018 identified the needs of RSMC Nadi</i></p>	Q3 2018-Q4 2020	0%	10%
<p><i>Project output 2.2: Targeted NMHS have access to high performance computing NWP models and tools</i></p>	Q1 2019-Q4 2020	0%	0%
<p><i>Project output 2.3: RSMC Nadi website and portal are upgraded</i></p>	Q4 2019-Q4 2020	0%	0%
<p><i>Project output 2.4: Regional policy paper on data sharing pertaining to WMO resolution 40 developed</i></p> <p>- <i>The project supported the WIGOS/GCOS workshop that took place in Fiji in October 2017, and further identified regional observation needs.</i></p>	Q1 2019-Q4 2020	10%	10%
<p><i>Project output 2.5: Impact-based coastal inundation forecasting in place in Tuvalu and Kiribati</i></p> <p>- <i>Terms of reference developed with the Pacific Community (SPC).</i></p>	Q2 2018-Q1 2021	0%	5%
<p><i>Project output 2.6 Community based mechanisms to prepare and respond to impact-based forecast and risk-informed warnings are in place</i></p>	Q4 2018-Q4 2020	0%	0%

### CREWS Output 3: Improvement of NMHSs service delivery

Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by Nov 2017	Progress by June 2018
<p><i>Project output 3.1 A high resolution Numerical Weather Prediction mesoscale model is implemented at FMS</i></p> <p>- <i>The first step towards implementing the NWP mesoscale model took place with the expert</i></p>	Q2 2018-Q4 2019	0%	10%

<i>mission to Fiji in May 2018.</i>			
<i>Project output 3.2 Implement Fiji FFGS</i> <ul style="list-style-type: none"> <li>- <i>The first step towards implementing the NWP mesoscale model took place with the expert mission to Fiji in May 2018.</i></li> <li>- <i>The agreement with HRC for procurement and delivery of FFGS was signed in April 2018 and the transfer to HRC was made in May 2018 (Canada CREWS funds)</i></li> </ul>	Q2 2018- Q2 2020	0%	15%
<i>Project output 3.3: Capacities of the targeted NMHS are developed to access, use and develop regional/national data, products, tools and services.</i> <ul style="list-style-type: none"> <li>- <i>CAP workshops took in eight PICs in July 2017</i></li> </ul>	Q3 2017 – Q4 2020	5%	5%
<i>Project output 3.4: Regional/national data, products and services are developed and verified, using global/regional data, products, tools and services.</i>	Q3 2018- Q4 2020	0%	0%
<i>Project output 3.5: Capacities of the Regional Centres/NMHSs targeted by the Project to deliver data, products and services and incorporate feedback are developed.</i>	Q4 2018- Q4 2020	0%	0%
<i>Project output 3.6: Quality Management Systems (QMS) for service development and delivery are in place.</i>	Q3 2018- Q4 2020	0%	0%
<i>Project output 3.7: Hydrometeorological data, products and services are delivered to end users and feedback is received and incorporated.</i> <ul style="list-style-type: none"> <li>- <i>Drought monitoring workshops took place in Tuvalu in Nov/Dec 2017. The consultants involved will further interact with Tuvalu officials in 2018 to fully develop a draft National Drought Policy that can then be considered for adoption by the Tuvalu Government. This is done in coordination with the Integrated Drought Management Programme (IDMP) which is co-sponsored by WMO and the Global Water Partnership with over 30 international, regional and national partner organizations</i></li> <li>- <i>Fiji TV Weather presenter workshop</i></li> </ul>	Q3 2017- Q4 2020	0%	5%
<i>Project output 3.8 Community-based mechanisms and activities to prepare and respond to impact-based forecasts and risk-informed warnings are in place</i>	Q4 2018- Q4 2020	0%	0%

#### CREWS Output 4: Development of long-term service delivery strategies and development plans for NMHS

<b>Project Outputs and Estimated Progress to Date</b>	<b>Output Start &amp; End Date</b>	<b>Progress by Nov 2017</b>	<b>Progress by June 2018</b>
<i>Project output 4.1: Development of long-term strategic plan for FMS/RSMC Nadi</i> <ul style="list-style-type: none"> <li>- <i>Final draft of strategic plan for Fiji submitted to WMO in January 2018. The validation workshop will take place in September 2018</i></li> </ul>	Q1 2017- Q4 2018	50%	90%
<i>Project output 4.2: Development of long-term strategic plans for targeted NMHS</i>	Q1 2017-	0%	10%

- The ToRs are developed for the strategic plans Kiribati, Tuvalu, Tonga, Federated States of Micronesia. WMO is currently processing the consultancy agreements for the consultants to develop the plans.	Q4 2018		
Project output 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	0%	10%

**CREWS Output 5: Procurement and installation of high priority observation and information and communications technology (ICT) equipment**

<b>Project Outputs and Estimated Progress to Date</b>	<b>Output Start &amp; End Date</b>	<b>Progress by Nov 2017</b>	<b>Progress by June 2018</b>
Project output 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	0%	10%
Project output 5.2 Procurement and installation of necessary ICT for targeted NMHS - The needs of the NMHS have been preliminary identified	Q3 2018- Q4 2020	0%	5%
Project output 5.3 Procurement and installation of AWS in Tokelau	Q4 2018- Q2 2019	0%	0%

**CREWS Output 6: Preparedness for response plans with operational procedures for dissemination, readiness to act with regular simulation exercises**

<b>Project Outputs and Estimated Progress to Date</b>	<b>Output Start &amp; End Date</b>	<b>Progress by Nov 2017</b>	<b>Progress by June 2018</b>
Project Output 6.1 Bilateral coordination mechanisms between NMHS and other national MHEWS stakeholders are established	Q3 2018- Q4 2020	0%	0%

<b>CREWS Output 7: Targeted education and public awareness programmes available for warning systems and related public action</b>			
<b>Project Outputs and Estimated Progress to Date</b>	<b>Output Start &amp; End Date</b>	<b>Progress by Nov 2017</b>	<b>Progress by June 2018</b>

<b>CREWS Output 8: Activities promoting gender equality in all aspects of early warning systems</b>			
<b>Project Outputs and Estimated Progress to Date</b>	<b>Output Start &amp; End Date</b>	<b>Progress by Nov 2017</b>	<b>Progress by June 2018</b>
<i>8.1 Targeted NMHS assess their capabilities to include gender equality in EWS - ToRs developed for the assessment of gender inclusions in EWS</i>	<i>Q1 2018- Q4 2020</i>	<i>10%</i>	<i>20%</i>
<i>8.2 Female staff in targeted NMHS have been trained on women in leadership</i>	<i>Q3 2018</i>	<i>0%</i>	<i>0%</i>

### **6.1 REGIONAL OUTPUTS**

<b>CREWS Regional Output A: Assessments of institutional capacities of regional centers to meet NMHSs' needs, alignment with other programmes socio-economic benefits</b>			
<b>Project Outputs and Estimated Progress to Date</b>	<b>Output Start &amp; End Date</b>	<b>Progress by Nov 2017</b>	<b>Progress by June 2018</b>
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.	<i>Q1 2018- Q4 2020</i>	<i>0%</i>	<i>80%</i>

**CREWS Regional Output B: Training for regional WMO and intergovernmental organizations to provide regional climate/weather services**

<b>Project Outputs and Estimated Progress to Date</b>	<b>Output Start &amp; End Date</b>	<b>Progress by Nov 2017</b>	<b>Progress by June 2018</b>

7	<b>Funding Spent</b>	<i>USD 156,000 (CREWS MDTF) CAD 509,702 (Canada CREWS)</i>
	<b>Changes in Organization and Operating Procedures, Project Viability and Sustainability</b>	
9	<b>Lessons Learned</b>	<i>No further lessons learned from current reporting period.</i>
10	<b>Documents</b>	<i>Report from Expert Mission to be submitted to CREWS Secretariat as soon as it is ready</i>