CREWS Project Status Report

1	**Project Title**	Weather and Climate Early Warning System for Papua New Guinea
2	**Project Reference**	CREWS/CProj/08/Papua New Guinea
3	**Reporting Period**	July - November 2018
4	**Reporting Focal Point**	Robert Stefanski (rstefanski@wmo.int)
5	**Project Status Overview**	Letters of Agreement are under review by the PNG National Weather Service (NWS) and Bureau of Meteorology (BOM) of Australia. The process was delayed because of lack of procurement and financial management capacity at PNG NWS to handle a partnership agreement. A mission was held 22 to 24 November 2018 to identify solutions. During the reporting period, the project supported a PNG representative participation in the Fourth Pacific Island Climate Outlook Forum (PICOF-4) and the Training Session on Social Media and Communication on 10-15 October 2018, Nadi, Fiji. The next step will be the launch workshop, with all relevant stakeholders, tentatively scheduled for Q1 2019. The project work plan will also be refined at this workshop.

6 **Project Activities Contributing to CREWS Outputs –National Projects**

CREWS Output 1: Assessments of capacities, user needs, alignment with other programmes and socio-economic benefits			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2018**	**Progress by Nov 2018**
1.1. Detailed assessment of user needs including PNG NWS and other stakeholders (6 stakeholders' workshops)	Q3 2018 – Q4 2020	0%	0%
1.2. Assessment of observation systems for early warning systems. Recommendations on improvements	Q4 2018- Q3 2019	0%	0%
1.3. Assessment of national capabilities on drought forecasts	Q4 2018 – Q3 2019	0%	0%
1.4. Assessment of Climate and Hydrological Database Management Systems	Q4 2018 – Q1 2019	0%	0%
1.5. Assessment of Climate data rescue needs	Q1 2019 – Q2 2019	0%	0%
1.6. Assessment of national capabilities on flood / flash flood forecast for urban or near-by areas, some	Q2 2020 –	0%	0%

to be addressed by SouthEastern Asia Oceanic FFG (SAOFFG)	Q1 2021		

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 *Adapt and implement Australian Climate and Weather Extremes Monitoring System to PNG for basic monitoring of drought, heavy rainfall and frost events*	Q4 2018-Q2 2019	0%	0%
2.2. *Develop NWP products from Global NWP centres including BOM for use in short-range forecasting*	Q4 2018-Q2 2019	0%	0%
2.3. *Guidance documentation about how to use Sub-Seasonal to seasonal forecasts (1week to 3 months) from Global Centers*	Q1 2020-Q3 2020	0%	0%
2.4. *Catalog of maps of flood prone areas and flood causes, some to be addressed by SouthEastern Asia Oceanic FFG (SAOFFG)*	Q4 2019 – Q2 2020	0%	0%
2.5. *Introducing impact-based drought forecasts and risk-informed warnings for improved decision making by the users*	Q1 2021-Q2 2021	0%	0%
2.6. *Develop on operational climate early warning system for drought*	Q3 2019 - Q2 2020	0%	0%
2.7. *Development of tailored products (e.g. drought monitoring and prediction).*	Q1 2020 - Q42020	0%	0%
2.8. *Pilot testing and evaluation of EWS based on prior stakeholder consultation*	Q2 2020 - 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 June 2018**	**Progress by Nov 2018**
3.1. *Integration of national meteorological, hydrological and climate observing systems in OSCAR/Surface, the official repository of surface-based observing stations and platforms metadata of WMO Integrated Global Observing System (WIGOS)*	Q4 2019-Q3 2020	0%	0%
3.2. *Improved climate databases based on Australia Climate Data for the Environment (CliDE) activities*	Q3 2018-Q2 2019	0%	0%
3.3. *Integration of other compatible database systems such as agro-meteorology, hydrology, with*	Q1 2019-	0%	0%

	Q3 2019		
3.4. Implementation of enhanced climate database and report on climate data rescue status	Q3 2019-Q2 2020	0%	0%
3.5. Recommendations and specifications for observing and forecast system improvement and product enhancement	Q3 2020 - Q1 2021	0%	0%

CREWS Output 4: Development of long-term service delivery strategies and development plans for NMHS			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2018**	**Progress by Nov 2018**
4.1. Long-term development of PNG NWS. Five years strategic development plan, implementation plan and resource mobilization plan	Q1 2019 - Q2 2020	0%	0%

CREWS Output 5: Procurement and installation of high priority observation and information and communications technology (ICT) equipment			
Project Outputs and Estimated Progress to Date	**Output Start & End Date**	**Progress by June 2018**	**Progress by Nov 2018**
5.1. Observing stations, data concentration, data management, forecasting and service production hardware, based on needs and assessment	Q3 2019 - Q2 2020	0%	0%

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. Enhanced multi-channel weather forecast and warnings communication systems	Q2 2019-Q1 2020	0%	0%
6.2. Pilot testing and evaluation of EWS based on prior stakeholder consultation	Q2 2020-Q4 2020	0%	0%

CREWS Output 7: Targeted education and public awareness programmes available for warning systems and related public action			
	Output	**Progress**	**Progress**

Project Outputs and Estimated Progress to Date	Start & End Date	by June 2018	by Nov 2018
7.1. Training in statistics and basic tools for climate services	Q1 2019-Q1 2021	0%	0%
7.2. Capacity building in preparing and interpreting the forecasts	Q2 2019-Q2 2021	0%	0%
7.3. Capacity training for multi-channel weather forecast and warnings communication systems	Q2 2019-Q1 2021	0%	0%
7.4. Capacity training on climate data management and data rescue	Q1 2019-Q1 2021	0%	0%
7.5. Capacity training on with OSCAR/Surface	Q1 2019-Q1 2021	0%	0%
7.6. Capacity training on climate extremes monitoring and drought forecast	Q2 2019-Q2 2021	0%	0%
7.6. Management training for PNG staff	Q2 2019-Q1 2021	0%	0%

CREWS Output 8: Activities promoting gender equality in all aspects of early warning systems			
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by June 2018	Progress by Nov 2018
8.1. Gender analysis undertaken to identify opportunities and include specific interventions to promote gender equality of EWS benefits	Q2 2019-Q1 2021	0%	0%
8.2. Development and implementation of a gender action plan to ensure gender-specific activities are identified and implemented. The action plan will be discussed at the kick-off meeting and will be integrated into the project work plan.	Q2 2019-Q1 2021	0%	0%

7	**Funding Spent**	Expected about CHF 10,000 (CHF 2,911 on Nov 1st + about CHF 7,000 for the mission)
8	**Changes in Organization and Operating Procedures, Project Viability and Sustainability**	The project time frame is being updated - from October 2017 – September 2020 - to April 2018 – March 2021
9	**Lessons Learned**	
10	**Documents**	- Project proposal approved by CREWS Steering Committee – (pdf)

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