

CREWS Project Status Report

1	Project Title	West Africa Region: Seamless operational forecast systems and technical assistance for capacity building
2	Project Reference	CREWS/RProj/02/Western Africa
3	Reporting Period	Sept - Nov 2018
4	Reporting Focal Point	Jean-Baptiste Migraine (jbmigraine@wmo.int)
5	Project Status Overview	<p>During the reporting period:</p> <ul style="list-style-type: none"> - Funding decision from CREWS Steering Committee on 7 Aug 2018; - 2 sessions held as part of West Africa Hydromet Forum (Abidjan, 19-21 Sept 2018): Setting-up a CREWS Community of Practice and Consultation on elements of the CREWS West Africa project; - Institutions have been invited to setup the Steering Committee; - WMO project team was invited to provide guidance to ECOWAS for the development of a West Africa Flood Management Strategy (7 Nov 2018); - ACMAD has been invited to represent the Africa RCC in WMO International Workshop on Global Review of Regional Climate Centre Operations, Pune India, 12-14 Nov 2018; - 15 countries participated in SWFDP Training Workshop on numerical weather prediction (NWP) interpretation, use of common alerting protocol (CAP) for warning dissemination, Lomé, 20-30 Nov 2018

6 Project Activities Contributing to CREWS Outputs

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 Nov 2018	
<i>1.1. Assessment of the current status and performance of the observation network and data services in CILSS and ECOWAS Member States - A draft inception report is available.</i>	Q1 2019- Q4 2020	5%	

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 2018	
<i>2.1. Proposal for a data and metadata exchange collaboration framework/agreement outlining stations to be included in the regional dataset, including recommendations for incorporating missing or new stations into the WMO WIGOS and WIS systems (OSCAR/Surface, WDQMS, GTS and WIS/GISCs) and forward looking plan for establishing a regional WIGOS center - An inception report is available.</i>	Q1 2019- Q4 2020	5%	

2.2 West Africa Climate Assessment & Dataset (WACA&D) system open to use for NMHSs and regional institutions (ACMAD, AGRHYMET, NBA (Niger), OMVS (Senegal), LCBC (Lake Chad), VBA (Volta), OMVG (Gambia) and MRU (Mano)), with supporting training at regional level and tools materials in French and English - Consultation with Member States and regional organizations took place in Abidjan, 19-21 Sept, and an inception report is available.	Q1 2019- Q4 2020	5%	
2.3. West Africa hydro-met and Climate Extreme database (WACE), involving a standard typology of high-impact event types and the assignment of a Universal Unique Identifier (UUID), with supporting training and guidance materials in French and English - An inception report is available.	Q1 2019- Q4 2020	5%	

CREWS Output 3: Improvement of NMHSs service delivery			
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by Nov 2018	
3.1 Climate Watch Service (with automatic update) - based upon monitoring products based on Satellite Application Facility on Climate Monitoring (CMSAF) and Global Precipitation Climatology Centre (GPCC) for West Africa (including software, guidance document and training), with supporting training and guidance materials in French and English. Consultation with Member States and regional organizations took place in Abidjan, 19-21 Sept, and an inception report is available.	Q1 2019- Q4 2020	10%	
3.2 West Africa Severe Weather Forecasting System online, in line with SWFDP guidebook , with RSMC Dakar Training Desk and supporting training and guidance materials in French and English - Forecasters from NMHSs have access to products from ECCO, NOAA/NCEP, UKMO, Meteo-France, RSMC Dakar. A training on NWP interpretation took place in Lomé in Nov 2018, focusing on interpretation of NWP products and satellite based information and making its best use in forecasts/warnings of severe and high impact weather from nowcasting to short- and medium-range. Korea Meteorological Administration (KMA) providing seed funding to kick-start the WA SWFDP process and supported the development of the website, online since Sept 2018. Consultation with Member States and regional organizations took place in Abidjan, 4-8 Sept 2017 (technical planning meeting) and 19-21 Sept 2018 (ECOWAS Hydromet Forum), and an inception report is available.	Q1 2019- Q4 2020	30%	
3.3 West Africa Flash Flood Guidance System online, with supporting training and guidance materials in French and English - Negotiations are ongoing with the Hydrologic Research Center. Consultations are also ongoing with WASCAL and AGRHYMET to ensure synergy with FANFAR and HKV models under development.	Q1 2019- Q4 2020	5%	

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 Nov 2018	
4.1. Development of CREWS Community of Practice. WMO and WB organized together two sessions during the ECOWAS Hydromet Forum on CREWS in West Africa. Participants confirmed the need to develop a CREWS Community of Practice, also inviting other francophone countries benefiting from	Q1 2019- Q4 2020	10%	

large hydromet investments such as DRC, Madagascar and Côte d'Ivoire. They also recommended close coordination between national and regional projects to ensure more optimal use of funding available for severe weather (CREWS, CDSF, GCF), climate (ACP-EU, CREWS), civil protection and food security. Two reports outline the forward looking plans: CREWS Community of practice and CREWS West Africa			
4.2 Recommendations and technical specifications for the development pilot services on early warnings for agricultural severe drought in West Africa. Negotiations are ongoing with UK Reading University.	Q1 2019- Q4 2020	0%	
4.3 Recommendations related to dissemination of seasonal and monthly prediction products and services in West Africa. Negotiations are ongoing with IRI.	Q1 2019- Q4 2020	0%	

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

No procurement of equipment foreseen under this project

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 Nov 2018	
6.1. Proposed principles for Standard Operating procedures for early warning (e.g. food security, riverine flooding) and rapid warning (e.g. severe weather, flash flooding) including recommendations for (i) standard operating procedures and (ii) user interfaces - to ensure access to information as decision making support by users (hydrologists, civil protection, food security, others). Terms of reference are being drafted.	Q1 2019- Q4 2020	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 Nov 2018	
7.1. Training on WA-SWFDP: interpretation of NWP products and satellite based information and making its best use in forecasts/warnings of severe and high impact weather from nowcasting to short- and medium-range (Severe Weather Forecasting)	Q4 2018	100%	
7.2. Training on Common Alerting Protocol	Q4 2018	100%	
7.3 Training on Impact-Based Forecasting	Q4 2018	100%	
7.4 Training on working with the media	Q4 2018	100%	
7.5 Training on West Africa Climate Assessment & Dataset (WACA&D)	Q2 2020	0%	
7.6 Training on West Africa hydro-met and Climate Extreme database (WACE)	Q2 2020	0%	
7.7 Training on West Africa Flash Flood Guidance System (WAFFGS)	Q2 2020	0%	

7.8 Training on West Africa Climate Watch System and remote sensing (CM-SAF, Land-SAF & LDAS)	Q2 2020	0%	
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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 Nov 2018	
8.1 CROSSCUTTING gender disaggregation and specific attention on the role of women under all activities listed above (training, workshops, tools) - Terms of reference need to be developed	Q4 2018- Q4 2020	0%	

6.1 REGIONAL OUTPUTS

CREWS Regional Output A: Assessments of institutional capacities of regional centers to meet NMHSs' needs, alignment with other programmes socio-economic benefits			
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by Nov 2018	
under 1.1. Assessment of the current status and performance of the observation network and data services in CILSS and ECOWAS regional institutions - An inception report is available.	Q1 2019- Q4 2020	5%	

CREWS Regional Output B: Training for regional WMO and intergovernmental organizations to provide regional climate/weather services			
Project Outputs and Estimated Progress to Date	Output Start & End Date	Progress by Nov 2018	
under 3.1 Climate Watch Service - training of trainers with AGRHYMET	Q3 2019- Q4 2020	0%	
under 3.2 West Africa Severe Weather Forecasting System - training of trainers for RSMC Dakar Training Desk	Q3 2019- Q4 2020	0%	
under 7.1. Training on WA-SWFDP: interpretation of NWP products and satellite based information and making its best use in forecasts/warnings of severe and high impact weather from nowcasting to short- and medium-range (Severe Weather Forecasting)	Q4 2018	100%	
under 7.2. Training on Common Alerting Protocol	Q4 2018	100%	
under 7.3 Training on Impact-Based Forecasting	Q4 2018	100%	
under 7.4 Training on working with the media	Q4 2018	100%	
under 7.5 Training on West Africa Climate Assessment & Dataset (WACA&D)	Q2 2020	0%	
7.6 Training on West Africa hydro-met and Climate Extreme database (WACE)	Q2 2020	0%	
7.7 Training on West Africa Flash Flood Guidance System (WAFFGS)	Q2 2020	0%	

7.8 Training on West Africa Climate Watch System and remote sensing (CM-SAF, Land-SAF & LDAS)		Q2 2020	0%	
7	Funding Spent	CHF 176,000 (all during the current reporting period)		
8	Changes in Organization and Operating Procedures, Project Viability and Sustainability	The project time frame is September 2018 – June 2021.		
9	Lessons Learned	<p>The CREWS West Africa consultation sessions during the West Africa Hydromet Forum (Abidjan, 19-21 Sep 2018) revealed that</p> <ul style="list-style-type: none"> - The institutional framework, data sharing practices and definition of warning are adequate for institutional collaboration in relation with anticipating impacts of drought and locust infestation; and still inadequate for warning in relation with rapid-onset events. WMO will propose a technical solution to exchange precipitation data among meteorological and hydrological services in near real time (exchange of rain maps) as a basis to enable enhanced agrometeorological services and flood forecasting. 		
10	Documents and links	<ul style="list-style-type: none"> - Project proposal approved by CREWS Steering Committee (Feb 2017) - pdf - SWFDP WA - Report of the Technical Planning Meeting (Sept 2017) - doc (funded by WMO) - SWFDP WA Implementation Plan (Sept 2017) - doc (funded by WMO) - Terms of reference of the CREWS West Africa Steering Committee - gDoc - Draft Inception Report for 1.1 - Assessment of observation network processes and needs - Draft Inception Report for 1.2 - Climate data base improvement (WACAD) - Draft Inception Report for 1.3 - Data base on impacts of extreme events (WACE) - Draft Inception Report for 1.4 - Early warning system operational procedures - Draft Inception Report for 2 - Analysis and climate watch tools - Draft Inception Report for 3 - Improved forecast capabilities focusing on severe weather (SWFDP) - Draft Inception Report for 4 - Flash Flood Forecast (FFGS) - Draft Inception Report for 5.1 & 5.2 - Subseasonal to seasonal forecast - Draft Inception Report for 5.3 - Pilot drought monitoring services - Report on establishment of a CREWS Community of Practice Session in Abidjan - gDoc - Report of the consultation on the 9 elements of the CREWS West Africa project in Abidjan - gDoc - Overall project planning spreadsheet for the CREWS West Africa project - gSheet 		