



CREWS PROJECT STATUS REPORT

Ref.: 02835/2021-1.0 S/TCG

1. Project title	West Africa Region: Seamless operational forecast systems and technical assistance for capacity building	2. Project reference	CREWS/RProj/02/West Africa
3. Lead Implementing Partner	WMO	4. Other Implementing Partners	-
5. Reporting period	December 2018 – June 2019		
6. Reporting focal point	Jean-Baptiste Migraine jbmigraine@wmo.int		
7. Project overview	<p>Project objective: to strengthen regional entities to engage with national hydrometeorological agencies in the region to improve risk information and early warning services at national level</p> <p>The project develops capacities within existing institutions in line with their mandates : (i) AGRHYMET (CILSS) for food security and regional climate services; (ii) RSMC Dakar (ANACIM) for severe weather forecasting and WIGOS coordination; (iii) NMHSs for crosscutting support to regional activities + flash flood guidance.</p> <p>Beneficiaries are the 17 Members of PRESASS: Benin, Burkina Faso, Cameroon, Central African Republic, Cap Verde, Chad, Côte d'Ivoire, the Gambia, Ghana, Guinea Bissau, Guinea Conakry, Mali, Mauritania, Niger, Nigeria, Senegal, and Togo.</p> <p>The regional project is complementing to the national projects in Burkina Faso, Chad, Mali, Niger and Togo. While provision of meteorological, hydrological, climate and early warning services is clearly a national responsibility, a number of support functions can be best performed at regional scale, with economies of scale and enhanced quality of services resulting for specialized regional cooperation, including for cascading approaches for numerical weather prediction (under the leadership of Dakar as regional specialised meteorological center), flash flood guidance (building upon enhanced numerical weather prediction capabilities and AGRHYMET training capabilities), climate watch and climate analysis (building upon ACMAD and later AGRHYMET as regional climate centers), training of meteorological and hydrological staff (with EAMAC and AGRHYMET, both in Niamey), etc.</p>		

8. Progress summary




Before the reporting period:

- Funding decision on [project proposal](#) 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 invited to provide guidance to ECOWAS for the development of a West Africa Flood Management Strategy (7 Nov 2018);
- ACMAD represented 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

During the reporting period:

- [First meeting](#) of the [Steering Committee](#) on Dec 19th, 2018;
- [Joint WMO-WB mission in AGRHYMET](#) (Niamey) on 15-17 Jan 2019;
- The technical description of the sub-components was updated:
 - [1.1 & 1.2 - Assessment of observation processes and needs / Database improvement \(WACA&D\)](#)
 - [1.3 - Data base on impacts of Climate Extreme events \(WACE\)](#)
 - [1.4 - Early warning system integration, operational procedures and seamless service delivery](#)
 - [2 - Analysis and Climate Watch Services \(WACWS\)](#)
 - [3 - Improved short- to medium-range forecast capabilities focusing on severe weather \(SWFDP\)](#)
 - [4 - Flash Flood Forecast \(FFGS\)](#)
 - [5.1 & 5.2 - Subseasonal to seasonal forecast \(PRESASS\)](#)
 - [5.3 - Pilot drought services \(AgM\)](#);
- A [briefing note for project upscaling](#) from 1.8 million USD to 5.3 million USD was submitted to CREWS SC, which in return requested WMO to lead the development of a proposal (3.5 million USD);
- Implementation arrangements were developed with [DWD](#), [UK Reading University](#) and IRI.

9. Project Performance

	Rate of expenditure	Rate of delivery	Alignment of Objectives
Coding			
Narrative	453,484 CHF (25%) expended to date, out of which 277,484 CHF (15%) during the reporting period, out of total 1,823,829 CHF received.	Project implementation is on track.	Project remains strongly aligned to the initial objectives.

10. Risk Management Status

Risk Status	<p>Risks have evolved in relation with:</p> <ul style="list-style-type: none"> - the undergoing enlargement of AGRHYMET mandate to take over the Regional Climate Center role from ACMAD in the near future; - the accreditation of ANACIM (Dakar) as regional specialised meteorological center for severe weather forecasting, which is facing difficulties in upgrading its high performance computer to serve the member countries with numerical weather predictions, thus compromising the expected results of the severe weather forecasting component; - Chad and Togo joining as CREWS beneficiary countries, resulting in a need to expand the coverage of services to additional countries, including through flash flood guidance services; - the delay in the preparation of the West Africa Regional HydroMeteorological Services Modernization Program Phase I (P166987) by the World Bank.
Measures to address	<p>The additional risks are being addressed with :</p> <ul style="list-style-type: none"> - additional consultations, such as (i) the joint WB-WMO-KNMI mission with AGRHYMET (Niamey, Jan 2019), and (ii) the joint WB-WMO workshop with ANACIM, AGRHYMET and ACMAD (Dakar, June 2019); - transfer of knowledge to AGRHYMET (Niamey) and ANACIM (Dakar) to ensure sustainability of project outputs after project completion; - upscaling the project (see briefing note) from 1.8 million USD to 5.3 million USD (submitted to CREWS SC on 10 May 2019).

11. Contributions to CREWS Outputs

11.1. Regional Outputs

CREWS Regional Output: Institutional and human capacities at Regional WMO and Intergovernmental organizations to provide regional climate and weather services to LDCs and SIDS increased

Project-specific Outputs	Overall Project Target	Target for reporting period	Progress by Dec 2018	Progress by June 2019
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.	100%	10%	5%	10%
2. 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.	100%	10%	5%	10%
3. 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.	100%	10%	5%	10%
4. 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.	100%	10%	5%	10%

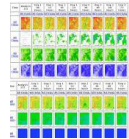
<p>5. <i>Climate Watch Service (with automatic update) - based upon monitoring products based on Satellite Application Facility on Climate Monitoring (CMSAF) and Global Precipitation Climatology Centre (GPCC) for West Africa (including software, guidance document and training), with supporting training 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.</i></p>	100%	10%	10%	10%
<p>6. <i>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.</i></p>	100%	50%	30%	50%
<p>7. <i>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.</i></p>	100%	10%	5%	10%
<p>8. <i>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 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,</i></p>	100%	10%	10%	10%

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				
9. 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.	100%	10%	0%	10%
10. Recommendations related to dissemination of seasonal and monthly prediction products and services in West Africa. Negotiations are ongoing with IRI.	100%	10%	0%	10%
11. 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.	100%	10%	0%	10%

12. Contributions to Value Propositions

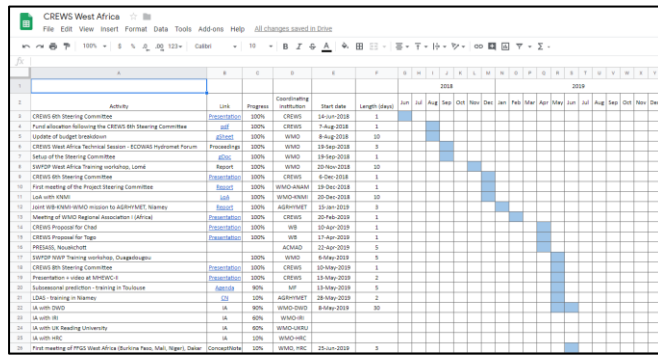
Gender Sensitive	The project considers gender equality in itself a key development objective, with direct demonstrated impacts in terms of increasing productivity, improving the impact of development for future generations, and making institutions more representative. To this end, the project promotes approaches aimed at eliminating the differences between men and women in accessing economic opportunities and in productivity, as well as to help give women a stronger voice within society.
	The project mobilizes specific expertise to guide investments such as AfDB SAWIDRA, EU Climate Services (8 million EUR) and WB Hydro- Meteorological Services Modernization (P166987)
People-centred	The project provides expertise to AGRHYMET, working directly with countries' multidisciplinary working groups to track food security and nutrition.



<p>Promote Coherence</p>	<p>The project mobilizes expertise from regional and global centers (Dakar RSMC, Météo-France, DWD, KNMI, ECMWF, UK Reading, HRC) to support AGRHYMET and RSMC Dakar along with their respective (upcoming) RCC and RSMC mandate.</p>
<p>Innovation & Solution-oriented</p> 	<p>The project makes available information from global and regional centers to national meteorological and hydrological services. Cascading forecasting is substantially improving the lead time and accuracy of forecasts and warnings.</p>
<p>Unique</p>	<p>The seamless approach to early warning supported by the project is unique, possible in relation with the multiplier effect and coherence.</p>

13. Visibility products

13.1. Insert or copy any links to press releases, videos or communication pieces that include social media links



Activity	Link	Progress	Coordinating institution	Start date	Length (days)	2018	2019
1 CREWS 8th Steering Committee	Presentation	100%	CREWS	18-Jun-2018	1		
2 Fund allocation following the CREWS 8th Steering Committee	off	100%	CREWS	7-Aug-2018	1		
3 Update of Budget Introduction	off	100%	WMO	8-Aug-2018	10		
4 CREWS West Africa Technical Session - ECOWAS Hydromet Forum	Presentations	100%	WMO	18-Sep-2018	5		
5 Setup of the Steering Committee	off	100%	WMO	18-Sep-2018	1		
6 WMO West Africa Training workshop, Lomé	Report	100%	WMO	20-Nov-2018	10		
7 CREWS 9th Steering Committee	Presentations	100%	CREWS	6-Dec-2018	1		
8 First meeting of the Project Steering Committee	Report	100%	WMO-ANAM	19-Dec-2018	1		
9 Link with WMO	off	100%	WMO-ANAM	30-Dec-2018	10		
10 Joint WMO-ANAM mission to AGRHYMET, Niamey	Report	100%	AGRHYMET	15-Jan-2019	3		
11 Meeting of WMO Regional Association (Africa)	Presentations	100%	CREWS	20-Feb-2019	1		
12 CREWS Proposal for Chad	Presentations	100%	WMO	19-Apr-2019	1		
13 CREWS Proposal for Togo	Presentations	100%	WMO	17-Apr-2019	1		
14 PREWAS, Nouakchott	off	100%	ANAM	22-Apr-2019	5		
15 WMO West Training workshop, Ouagadougou	off	100%	WMO	8-May-2019	5		
16 CREWS 9th Steering Committee	Presentations	100%	CREWS	10-May-2019	1		
17 Presentation video at AMET/CCL	Presentations	100%	CREWS	13-May-2019	2		
18 Subnational prediction - training in Toulouse	Reports	80%	AFR	13-May-2019	5		
19 LDAS - training in Niamey	off	10%	AGRHYMET	28-May-2019	2		
20 IA with WMO	IA	80%	WMO-WSO	8-Jun-2019	10		
21 IA with IR	IA	60%	WMO-IR				
22 IA with UK Reading University	IA	80%	WMO-UKRU				
23 IA with HRC	IA	10%	WMO-HRC				
24 First meeting of PMG West Africa (Burkina Faso, Mali, Niger, DRC)	Consultation	10%	WMO-HRC	15-Jun-2019	1		

[Project management spreadsheet](#)



[Project presentation](#)

14. Supporting documents

List and annex to the report any documents providing details on project activities such as reports of training sessions, summaries of high-level discussions etc.

- Project proposal approved by CREWS Steering Committee (Aug 2018) - [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 report of the first session 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](#)