



## CREWS PROJECT PROGRESS REPORT

(January - June 2023)

<b>1. Project title</b>	Mali - Hydrological and Meteorological Services Modernization	<b>2. Project reference</b> CREWS/CProj/07/Mali
<b>3. Implementing Partners involved in the project</b>	World Bank (Lead) World Meteorological Organization	<b>4. Regional/National Partners involved in the project</b> Mali Météo, General Directorate for Civil Protection (DGPC), National Hydrological Department (DNH), National Food Security Early Warning System (SAP)
<b>5. Project Duration/Timeframe (from year – to year)</b>	July 2017 – June 2023	<b>6. Total Funding Approved by Steering Committee (in US dollars), including fees</b> 3,333,000
<b>7. Reporting focal point(s) from Implementing Partners</b>	Koffi Hounkpe: <a href="mailto:khounkpe@worldbank.org">khounkpe@worldbank.org</a> Michel Nikiema: <a href="mailto:pmnikiema@wmo.int">pmnikiema@wmo.int</a>	
<b>8. Project overview</b>	<p><b>Please include objectives, key project deliverables, leveraging, contextual information/statistics, significant events during the reporting period <u>in bullet points</u>. (max 250 words)</b></p> <p><u>Budget</u>: US\$ 3.33 million - implemented by the WB/GFDRR and WMO.</p> <p><u>Leveraging</u>: This funding complements WB Strengthening climate resilience in Mali investment project of US\$31M (GCF \$23M and IDA \$8M).</p> <p><u>Objective</u>: to improve the country’s hydro-meteorological, early warning and response systems and services in targeted areas</p>	

**Main activities:**

Modernization of the meteorological and hydrological monitoring networks through rehabilitation of priority stations, installation of new sensors, rain gauges, and automatic hydro-meteorological stations; (ii) strengthening transmission, data management and dissemination hardware at MALI METEO and National Directorate of Hydraulics (DNH) for the integration of data into the global production chain, archiving and sharing across relevant entities; (iii) strengthening technical systems for performing meteorological, hydrological and climate modelling and forecasting at MALI METEO and DNH, especially in numerical weather prediction, severe weather forecasting, flood modelling, database management, and impact-based forecasting (iv) installation of an Emergency Operations Centre (for rescue operation) at General Directorate of Civil Protection (DGPC) and an Emergency Coordination Centre (for disaster recovery, humanitarian aid) with adequate communication equipment; (v) strengthening of communication channels related to weather, water and climate information to the general public through media (web, radio, TV, newspapers), cellphones, sectoral online services, etc. with a gender-disaggregated approach and particular attention to vulnerable groups, who may have difficulty understanding or accessing information; (vi) strengthening of communities' access, in particular local decision makers and smallholder farmers, to early warning information services on agriculture, livestock and food security in chronically food insecure communities.

**Significant events during the reporting period:**




- The SOS-SECURITY platform was officially launched in December 2022. The SOS-SECURITY Platform is an application of the Ministry of Security and Civil Protection which provides meteorological and hydrological information and alerts in the event of floods, accidents, etc. The public information is planned and the training of students in universities, also the operationalization and scaling up of the SOS SECURITE system at national level.
- Official launch of the Master in Disaster Risk Management on June 23, 2023. The Master's program aims to contribute to the development of the human resource capacities required for Disaster Risk Management and resilience planning.
- Training of 4 ingeneers on "preventive maintenance (initial electrical clearance) and 1st level of weather radar training" Grenoble, France 30 May to 08 June 2023. The second level is planned in July (5<sup>th</sup> to 12<sup>th</sup> )
- preparation of National Training Workshop on Flash Flood Forecasting (WAFFGS)




	<ul style="list-style-type: none"> <li>• Two online Training session: one on African Easterly Waves and convection and another one on the role of equatorial waves in the occurrence of extremes rainfall.</li> <li>• Weekly briefing with Meteo France and the Regional Specialized Meteorological Centre in Dakar</li> </ul>
<p><b>9. Progress summary</b></p>	<p><b>What has been achieved <u>during this reporting period?</u> – Please list <u>in bullet points</u> the most significant and tangible outcomes? (max 250 words)</b>  <b>What has been achieved <u>during this reporting period?</u> – Please list <u>in bullet points</u> the most significant and tangible outcomes? (max 250 words).</b></p> <ul style="list-style-type: none"> <li>• CREWS Mali complementary to the Hydromet project. Recruitment three consultants support hydrometric and early warning services in the country</li> <li>• Training of 350 women leaders on prevention, disaster management and early warning for them as a focal point-person in their communities to relay information on preparedness and disaster response;</li> <li>• Studies of perennial and non-perennial waters in the Senegal and Upper Niger river basins;</li> <li>• Training and establishment of a network of communicators on DRR and SAP in Mali (50 participants);</li> <li>• Training was provided to the National Disaster Risk Reduction Platform (PRRC) on risk knowledge and disaster risk management;</li> <li>• Recruitment of two consultants (women) to train women and support networking of women's associations on climate-related risks and early warning mechanisms.</li> <li>• Training on weather Radar maintenance and exploitation (first level)</li> <li>• TOR for the preparation of the socio-economic impacts of floods in Mali</li> <li>• TOR for the preparation of guidance on Haut Bani River development</li> <li>• TOR for the preparation of GIS training</li> <li>• Rapportage GCF, Mid-term review mission</li> </ul>



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**10. Project Performance**

Interpretation of color coding		
<b>High</b>		Good progress; on track in most or all aspects of delivery
<b>Medium</b>		Moderate progress or on track in some aspects of delivery
<b>Low</b>		Less than moderate or poor progress. Not on track in critical areas of its delivery. Requires remedial attention

	Rate of expenditure	Rate of delivery	Alignment of Objectives
<b>Coding</b>			
<b>Narrative</b>	<p><b>From WB side:</b> Disbursed: 1,938,951 Committed: 43,344</p> <p><b>From WMO side:</b> Disbursed: USD 242,879 Committed: USD 1,210</p>	- insecurity resulted in restriction for field missions and travel to Mali, especially for international consultants.	Fully aligned on the CREWS objectives as well as the country development priority.

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## 11. Risk Status

<b>Risk Status</b>	<p>What is the current risk status as compared to what was identified in the project proposal?</p> <p>With the permanent insecurity in Mali mainly in the center, southern and northern parts of the country, the activities were planned accordingly, but limited to few areas. This situation affected negatively the project implementation.</p>
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<b>Measures to address</b>	<p>What mitigation measures have been developed to address the risk status? <b>In bullet points</b></p> <ol style="list-style-type: none"> <li>1.) The networks of women leaders, the GLAM(Agrometeorological Assistance Group) and the SCAP-RU (Community Early Warning System for Emergency Response) have supported the basic implementation of the project, particularly in the field.</li> <li>2.) Remote monitoring tools (e.g. using cell phone surveys) have been introduced to support basic project implementation, notably in field locations</li> <li>3.) Planning for many activities in the capital to avoid travelling to the regions.</li> </ol>

## 12. Contributions to CREWS Output(s)

(use number for activities and products and % for project component completion)

### 12.1 National Output(s)

#### CREWS Output(s) 1: National Meteorological and Hydrological Services service delivery improved, including the development of long-term service delivery strategies and development plans

State Project Output(s) in this section	Overall Project Target	Progress by December 2022	Target for reporting period	Progress by June 2023
(1) (X) products and services delivered by MALI METEO and DNH . (2) Strengthened capacity of (X) Staff on early warning of drought, locust, heavy precipitation, river flooding, flash flooding, wind storm and sand storm, within National Meteorological Service (MALI-METEO), National Hydrological Service (DNH), Food Security Early Warning System (CSA/SAP) and Civil Protection Directorate (DGPC)	35	21	07	02



**Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.**

The regional and local civil protection directorates, the networks of women leaders, GLAM and SCPRU have supported the implementation of this activities

The status is rated Moderate/Medium.

**Two activities realized by Mali Hydromet Project:**

The targets in view are the weather SOPs and the revision of the national strategy for risk and disaster prevention which are ongoing.

**CREWS Output(s) 2: Risk Information to guide early warning systems and climate and weather service developed and accessible**

State Project Output(s) in this section	Overall Project Target	Progress by December 2022	Target for the reporting period	Progress by June 2023
Communication networks to disseminate information and alerts in a timely manner and messages to decision makers and users. Provide adequate training and capacity for stakeholders involved in the early warning system chain, from data collection to the end users. CREWS will play main role in the system functioning.	50	0	25	15

**Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.**

The development of the image box (conflict management, gender-based violence, disaster risk reduction) has helped to achieve CREWS' objectives.

- 929 people took part in the training on the SOS SECURITE application, including 276 DGPC agents (223 men and 53 women).
- Training for the SAP experts was conducted from January 27 to February 3, 2023. It brought together 15 participants, including (1) woman and (14) men. Several training sessions were held in the regions of Gao, Mopti and Segou from November 29, 2022 to December 16, 2022 with 75 participants, including 7 women and 68 men.



- In order for the end-users to take more ownership of the services offered by the meteorological agency, capacity building sessions for fishermen were carried out in the circles of KAYES, MOPTI, SEGOU, DIOILA in April 2023. Several women's village committees received training in Segou, FANA, Kayes and Sikasso on the use of climatic information. 305 people took part in the activity, including 244 women (80%).
- In order to improve the quality of the data collected during the surveys, SAP trained 260 agents on modern data collection tools using tablet computers for almost real-time data feedback with supporting coordinates of the collection points.

### CREWS Output(s) 3: Information and Communication Technology, including common alerting protocol, strengthened

State Project Output(s) in this section	Overall Project Target	Progress by December 2022	Target for the reporting period	Progress by June 2023
CREWS is supporting the establishment of a communication system to deliver timely and adequate agro-meteorological services in complementary with the investment project which will provide equipment especially, mainly cell phones.	Annual report on service deliver to end users mainly DGPC for DRM management	0	15	05
Number of local food security and nutrition monitoring (SAP) groups equipped with adequate communication tools	Annual report on service deliver for farmers	0	02	02

**Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.**

Since March 2021, the COVID 19 pandemics, socio political crisis added to the economic sanctions imposed on the country have significantly impacted the overall project activities implementation. As a result no activity was undertaken for this output indicator from January through June 2022. However, the imposed economic sanctions have just been lifted by ECOWAS and the implementation of project activities will start soon.





The status is rated Moderate/Medium

**Activities supported by Mali Hydromet Project with support of Consultants recruited by CREWS funding  
GLAM and SCAP-RU**

Reference is made to the beneficiaries SCAPRU (which is continuing activities), who have been supported with drought and food security related early warning. The smartphone-based application SOS Security is operational since early 2023  
The direct beneficiaries include the beneficiaries of the Agrometeorological Assistance Groups (GLAM) as the Community Early Warning System for Emergency Response (SCAP-RU) as well as those who have utilized community radios and the respective weather and climate information disseminated or have benefitted from specific capacity building activities.

**CREWS Output(s) 4: Preparedness and response plans with operational procedures that outline early warning dissemination processes developed and accessible**

State Project Output(s) in this section	Overall Project Target	Progress by December 2022	Target for the reporting period	Progress by June 2023
CREWS will provide training to DGPC staff to operationalize the National Center for Emergency Operations and disseminate early warning information	300 DGPC staff trained	0	04	04

**Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.**

The regional and local civil protection directorates supported the implementation of this activity.  
**People trained by Mali Hydromet project**  
- 929 people took part in the training on the SOS SECURITE application, including 276 DGPC agents (223 men and 53 women).



### CREWS Output(s) 5: Knowledge products and awareness programmes on early warnings developed

State Project Output(s) in this section	Overall Project Target	Progress by December 2022	Target for the reporting period	Progress by June 2023
Reduction of mean emergency response lead time for flood (Percentage). CREWS supported DGPC to undertake a desk review of information for the call center and the emergency coordination for flood Reduction of mean emergency response lead time for flood (Percentage).	50%	0	05	20
<p><b>Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.</b></p> <p>The networks of women leaders, GLAM and SCPRU have supported the implementation of this activities</p> <p>The status is rated Moderate/Medium</p>				

### CREWS Output(s) 6: Gender-sensitive training, capacity building programmes provided

State Project Output(s) in this section	Overall Project Target	Progress by December 2022	Target for the reporting period	Progress by June 2023
Number of female head of Community Early Warning Systems (Number) for flood and food security empowered or trained on early warning systems	45	0	50	50



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**Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). Please list in bullet points.**

The status is rated Moderate/Medium

The project is expected to reduce gender inequalities through specific activities based on women’s needs. The project will ensure that all activities support actions to increase the role and leadership of women in the disaster management services and that information and service delivered will be tailored to all, considering the additional challenges women and vulnerable populations face (such as illiteracy, language, access to communication devices etc.). Among others this will be implemented through different actions, including policy support, capacity building, surveys, and an active role of women in the planning and implementation of activities. To strengthen women's participation in decision-making on disaster risk reduction, several initiatives are being carried out by the Government of Mali and its partners.ers.

Gender Action Plan has included the following elements:

- Raising gender awareness among stakeholders;
- Encouraging opportunities to improve knowledge of gender actions and capacity building at institutional level;
- Increasing women's participation in decision-making in the project context through technical structures (Mali Météo, SAP, DGPC and DNH);
- Considering the differentiated needs of women and men in aspects of natural disaster prevention, epidemics, inclusion in early warning awareness and climate resilience;
- The organization of a dialogue with all stakeholders on aspects of adaptation to climate resilience, social inclusion and gender equality;
- Dedicating technical gender expertise to guide the implementation and monitoring of gender outcomes to hold individuals and institutions accountable;
- Defining gender outcomes to hold individuals and institutions accountable for gender equality outcomes.

The status is rated Moderate/Medium

### 12.2 Regional Output(s) (for Regional Projects)

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



State Project Output(s) in this section	Overall Project Target	Progress by December 2022	Target for the reporting period	Progress by June 2023
N/A	N/A	N/A	N/A	N/A
<p><b>Additional information: briefly indicate, with concrete examples, the contributions to CREWS value propositions (gender-responsive, multiplier, people-centered, promote coherence, solution-oriented, unique), as relevant (150 – 200 words). <u>Please list in bullet points.</u></b></p> <p>N/A</p>				

### 13. Certification on Use of Resources

This needs to be provided at the end of the year as part of the submission of the 2<sup>nd</sup> semester report. Each Implementing Partner to provide a certification of the use of resources signed by their authorized representative.

### 14. Visibility products

- a. *Insert or copy any links to press releases, videos or communication items and/or social media links produced during the reporting period only*

### 15. Supporting documents

- a. *List and annex to the report any documents providing details on project activities conducted during the reporting period such as reports of training sessions, assessment reports, online solutions and tools, manuals, summaries of high-level discussions etc.*

### 16. Project History



***a. Highlight key achievements since project started in bullet points, include all visibility and supporting documents other than those from the last 12 months***

12 months activities?

1. Technical support to Mali-Meteo and National directorate for water resource for technical specification for hydrometeorological equipment procurement
2. Training of 350 women leaders on prevention, disaster management and early warning for them as a focal point-person in their communities to relay information on preparedness and disaster response.
3. Community mapping was conducted in Bamako city to support flood management, flood modeling and flood forecasting.
4. Baseline study was conducted for all indicators of the Strengthening Climate Resilience in Mali (Hydromet) project to be monitored during the whole project cycle.
5. Training was provided to the National Disaster Risk Reduction Platform (PRRC) on risk knowledge and disaster risk management.
6. Recruitment of two consultants (women) to train women and support networking of women's associations on climate-related risks and early warning mechanisms.