



CREWS PROJECT PROGRESS REPORT

(July – December 2021)

Ref.: 02411/2022-1.0 MS/RSO

1. Project title	Support of the Hydrometeorological Unit of Haiti (UHM) for sustainable operability and the implementation of a relevant and efficient hydrometeorological warning system.	2. Project reference CREWS/CProj/13/Haïti
3. Implementing Partners involved in the project	World Meteorological Organization (WMO)	4. Regional/National Partners involved in the project - MétéoFrance International - United Nations Development Programme (UNDP) Haiti
5. Project Duration/Timeframe (from year – to year)	January 2021 – December 2023 (Originally planned January 2020 – December 2022)	6. Total Funding Approved by Steering Committee (in US dollars), including fees 1,500,000 USD
7. Reporting focal point(s) from Implementing Partners	Lina Sjaavik OiC, Project Implementation Division Member Services and Development Department LSjaavik@wmo.int	
8. Project overview	<p>Please include objectives, key project deliverables, leveraging, contextual information/statistics, significant events during the reporting period <u>in bullet points</u>. (max 250 words)</p> <p>Objectives The main objective of CREWS Haiti is to improve the capacity of the Unité Hydrométéorologique D'Haïti (UHM) to develop and deliver co-produced multi-hazard alerts, as well as to strengthen its cooperation with key ministries, priority sectors and communities that will increase the effectiveness of Haiti's early warning system.</p> <p>Key project deliverables</p>	



	<ul style="list-style-type: none"> - Capacity of UHM to deliver high quality services to Direction Générale Protection Civile (DGPC) and other Haitian stakeholders enhanced - Improved hydrometeorological warning system implemented - Preparedness and response capacities at national and community levels strengthened <p><u>Leveraging</u></p> <p>CREWS Haiti...</p> <ul style="list-style-type: none"> - ... leverages results achieved by the ECCC Canada funded project “Haiti Weather Systems Program - Climate Services to Reduce Vulnerability in Haiti” (CAD 6,5 Million), as planned activities primarily build on additional priorities and needs identified during that project. CREWS Haiti hence ensures medium-term sustainability of prior investments in the country. - ...builds on outcomes of the Canada CREWS SIDS & SeA project, which implemented a River Flood Forecasting System in Hispaniola, coupled with the Haiti and Dominican Republic Flash Flood Guidance System (HDRFFGS) (CAD 2 Million for the Caribbean). CREWS Haiti’s activities in the area of flood forecasting will build on these achievements. The project further produces awareness videos for Ocean Buoys and Costal inundation in French Créole in order to enhance knowledge and awareness for the Haitian population. - ...enhances outcomes of CREWS Caribbean (USD 5,5 Million), especially activities to facilitate the transition to impact based forecasting, led by the World Bank GFDRR. - ... creates synergies with the World Bank led project “Projet de Gestion des Risques et de Résilience aux Aléas Climatiques” (USD 35 Million) (ongoing) in the area of dissemination and alert protocols
<p>9. Progress summary</p>	<p>What has been achieved <u>during this reporting period</u>? – Please list <u>in bullet points</u> the most significant and tangible outcomes? (Highlight at least 1 key achievement that can be elaborated in the 2021 Annual Report). (max 250 words)</p> <p>Major developments/achievements in the reporting period</p>



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	<ul style="list-style-type: none"> - In-country support strengthened through Collaboration Arrangement between UNDP Haiti and WMO signed in September 2021 (681,265 USD). Activities implemented as part of this Arrangement: <ul style="list-style-type: none"> - UHM internet provision secured until December by WMO. The contract with the internet provider, DIGICEL, will be handled by UNDP in 2022. - Development of list of needs of relevant office supplies UHM – procurement to be initiated (Q1/2022) - Three fellowships provided for UHM technicians for “Superior Technician in Meteorology” course at Ecole Nationale de la Météorologie in Toulouse (September) - Procurement of SIM Cards for UHM weather station connectivity (October) - Edition of UHM National Strategic Plan finalized. (December) (Start implementation Q1/2022) - Procurement of RAID-card for malfunctioning UHM server II initiated. (Delivery January 2022) - Procurement of UHM videoconferencing system initiated. (Delivery February 2022) - (Several) Exchanges initiated with UHM stakeholders <ul style="list-style-type: none"> - UHM and Minister of Agriculture, Natural Resources and Rural Development: discussion of project activities and UHM legal status. Meeting Minister, UHM and WMO planned Q1/2022. - UHM and Coordination Nationale de la Sécurité Alimentaire (CSNA): discussion of project activities and planning of workshop on use of meteorological information in Agriculture-Sector (planned for February 2022) - UHM and DGPC: discussion of project activities and planning of workshop on use of meteorological information in disaster risk management (planned for Q1/222) - UHM and Office National de l’Aviation Civile (OFNAC): discussion of possibility and requirements for Memorandum of Understanding. <ul style="list-style-type: none"> o WMO experts in aviation related quality management engaged to support UHM in fulfilling basic OFNAC quality management requirements o Training developed for UHM and OFNAC observers (started Q1/2022) - UHM, WMO and Instituto de Meteorología Cuba (INSMET): Discussion on cooperation and support for Haiti to improve hydrometeorological service provision.
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Interpretation of color coding		
High		Good progress; on track in most or all aspects of delivery



10. Project Performance

Medium		Moderate progress or on track in some aspects of delivery
Low		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
Coding			
Narrative	Disbursement December 2021: USD 721,171 (~ 48%)	The delivery rate has picked up in the second half of 2021, but is still moderate. Several project activities have been delayed due to natural disasters, the Covid-19 pandemic and the worsening political and security situation in Haiti (see <i>11. Risk Management Status</i>). The project team remains confident that all planned activities can be implemented within the project duration. This is further made possible through the engagement of the in-country partner UNDP Haiti, who will support the implementation of selected activities across all components. UNDP will, in close coordination with UHM and WMO, take the lead on activities where local presence is beneficial, such as the organization of workshops and consultations with local stakeholders, the provision of UHM office supplies and	The project activities implemented remain strongly aligned with the project objectives. (as outlined in section 8. <i>Project Overview</i>)

		<p>internet access, as well as national exercises to identify user needs and activities concerned with strengthening and enhanced accessibility of preparedness & response plans in order to reach the last mile.</p>	
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11. Risk Management Status

<p>Risk Status</p>	<p>What is the current risk status as compared to what was identified in the project proposal?</p> <p>The overall risk to a successful project implementation has increased since the development of the project proposal and is currently assessed to be Medium/HIGH due to factors outlined below:</p> <p>Natural Disasters & Covid-19</p> <ul style="list-style-type: none"> - In August, a 7.2. magnitude earthquake followed by heavy rainfalls struck Haiti, killing more than 300 people. This put a pause on several project activities for weeks. - Haiti is affected heavily by the Covid-19 pandemic. In Jan 2022, only ~ 202.000 vaccine doses have been administered¹ (population: ~ 11.4 million). Going forward, the further development of the pandemic and the impact of the Omicron variant creates some uncertainty for the further progress of the project as this could change governmental priorities and affect implementation speed. - At the time of reporting, the Caribbean 2021 Hurricane Season has come to an end with no particular impact on the execution of the project. <p>Political, Institutional and Security Risks</p>
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¹ [Haiti: WHO Coronavirus Disease \(COVID-19\) Dashboard With Vaccination Data | WHO Coronavirus \(COVID-19\) Dashboard With Vaccination Data](#)

	<ul style="list-style-type: none"> - The assassination of president Jovenel Moise in July intensified the prevailing political instability. It enhanced security risks due to increasing gang violence including extortion, kidnappings and fuel shortages as gangs are blocking the country’s main roads to demand the current president Ariel Henry’s resignation. This has a severe impact on the daily work of our focal points at UHM as well as other stakeholders and has caused and will continue to cause delays in project implementation. - In February 2022, which would have been the end of the deceased presidents’ term in office, the security situation is expected to worsen. - No election date in 2022 has been set at the time of this reporting. The elections will most probably affect the timeline and probability for success of the planned change of legal status of UHM (unit → service incl. allocated budget) which is an action item in the UHM National Strategic Plan.
<p>Measures to address</p>	<p>What mitigation measures have been developed to address the risk status? <u>In bullet points</u></p> <p>To count for current and future delays as well as the uncertainty moving forward, project activities required and will further require readjustment in scope and timeline, as well as way of delivery (e.g. change from in-person to virtual interaction).</p> <p>Natural Disasters & Covid-19</p> <ul style="list-style-type: none"> - In order to allow for an improved virtual working/training mode considering the ongoing pandemic, CREWS Haiti supports the acquisition of a video conferencing system for UHM. - After the earthquake, CREWS Haiti supported UHM in procuring SIM CARDS to allow for re-connection of most affected weather stations in the countries’ south. In the immediate aftermath of the earthquake, project implementation of other project activities which required strong involvement from UHM were put on hold and were rescheduled. <p>Political, Institutional and Security Risks</p> <ul style="list-style-type: none"> - To mitigate, the project ensures national ownership through the constant involving UHM and having them prioritize project activities. - The project further seeks to ensure an intact relationship with the changing Ministers of Agriculture, Natural Resources and Rural Development (e.g. through UHM updating about project activities, but also through a planned meeting with WMO in Q1 or Q2/2022).



	<ul style="list-style-type: none"> - The project management team including UHM, WMO and UNDP meets every two weeks; the meeting agenda opens with the “Current Situation in Haiti” which allows the project team to gain a better understanding of the current political and security situation in order to be able to adjust project activities accordingly.
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12. Contributions to CREWS Output(s)

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

11.1 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 July 2021	Target for reporting period	Progress by December 2021
UHM National Strategic Plan (NSP) as guidance to improved long-term service delivery implemented	<ul style="list-style-type: none"> - NSP endorsed - Consultation workshops on operational plan and institutional framework held - Defined activities implemented 	NSP outline endorsed	NSP edition finalized	NSP edition finalized
Provision of fellowships to support UHM capacity building (Ecole Nationale de la Météorologie, Toulouse)	<ul style="list-style-type: none"> - Minimum 5 fellowships provided for technical UHM staff 	3 candidates selected	3 fellowships granted	3 fellowships granted; two in meteorology and one technician.
UMH technical capacities to provide forecast and warnings improved	<ul style="list-style-type: none"> - Calibration and integration of systems for flood warning improved - Verification mechanisms to improve numerical weather prediction use and forecasts improved 	Activity not started	Cooperation with INSMET initiated, ToR for consultation (hydro & meteo) for assessment developed, course	Cooperation with INSMET initiated, ToR for consultation (hydro & meteo) for assessment developed, course



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	<ul style="list-style-type: none"> - Training for UHM and OFNAC observers held - Technical trainings held (tbd) 		for observer-training developed	for observer-training developed
Provision of general office supplies and services for UHM	<ul style="list-style-type: none"> - UHM internet and telecommunication services provision secured - Basic office supplies available - Videoconferencing system installed 	Activity not started	Videoconferencing system purchased	Videoconferencing system purchased (delivery and installation Feb. 2022)
<p>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></p> <p>Contribution to (selected) CREWS value propositions:</p> <ul style="list-style-type: none"> • <i>Gender responsive & people centered:</i> The activities to strengthen capacities as well as the NSP, which outlines an action plan for UHM, aim to strengthen EWS in a way that will reach more people - specifically the ones most at risk, and further contribute to the concept of people-centered EWS. • <i>Promote coherence:</i> For all activities related to flood forecasting and warning, synergies will be created with WMO system products such as SWFP, FFGS and Coastal Inundation Forecasting Initiative (CIFI). • <i>Multiplier:</i> The NSP is built around Haiti’s development objectives and as such strives to contribute directly to the sustainable socio-economic development of the country. As it demands for a change of legal status of the NHMS, it initiates a conversation at the political level and contributes to raise awareness as to the importance of meteorological services itself. The NSP further outlines a clear defined strategy which enables UHM to improve its service. These factors all contribute to a more favourable environment for EWS and improved disaster management. The associated action plan identifies further needs for external funding. • <i>Solution oriented & unique:</i> The financing of a UHM videoconferencing system through the project is a pragmatic, solution-oriented effort to implement project activities such as trainings virtually (best practice from CREWS Caribbean e.g.) and to provide UHM with better equipment to exchange with partners virtually. This investment mitigates the ongoing difficult political, security and environmental situation in the country and thus supports UHM’s service delivery in the long-term. 				

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 July 2021	Target for the reporting period	Progress by December 2021
Early warning services developed and accessible for the agriculture sector	<ul style="list-style-type: none"> - Agriculture sector priority needs identified - Strategic roadmap with Ministry for Agriculture developed - Products / services with DGPC/CSNA co-designed - Famers database established 	Activity not started	Activity not started	Activity not started
UHM cooperation with DGPC and CNSA strengthened and institutionalized	<ul style="list-style-type: none"> - Framework for partnership with DGPC & CNSA established - Training sessions for DGPC and CNSA officials in use of weather and climate information held 	Activity not started	Exchange (re-) initiated, workshops planned	Exchange (re-) initiated, workshops planned
UHM cooperation with OFNAC strengthened and institutionalized	<ul style="list-style-type: none"> - UHM quality management system in place - UHM & OFNAC Memorandum of Understanding signed 	Activity on hold	UHM & OFNAC exchange (re-) initiated, WMO experts in quality management (aviation) engaged	UHM & OFNAC exchange (re-) initiated, WMO experts in quality management (aviation) engaged
<p>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></p> <p>Contribution to (selected) CREWS value propositions:</p>				



- *Gender responsive, people centered:* Products co-developed with DGPC and CSNA and target groups, have the primary goal to enhance security and increase the capability for decision making especially for most vulnerable groups that don't have access to tailored information yet.
- *Promote coherence:* By engaging WMO aviation quality management experts, compliance with international standards is secured.
- *Solution oriented:* The project seeks to find innovative approaches and uses best practices from other projects to substitute trainings that should be held face to face e.g. through the development of hybrid and virtual trainings. One solution to trainings that was identified was the procurement of a video-conferencing system that will allow for virtual training to take place in lieu of in-person training.

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 July 2021	Target for the reporting period	Progress by December 2021
Robust, secure and integrated system for production and dissemination of forecast and warning implemented (Common Alerting Protocol (CAP))	<ul style="list-style-type: none"> - Liaise with PGRAC project on development of action plan to implement CAP - Exercise(s) on dissemination and communication of alerts at community level conducted 	Activity not started	- Exchange with PGRAC project initiated	- Exchange with PGRAC project initiated

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.

- Contribution to (selected) CREWS value propositions:
- *Gender responsive & people centered:* Ensuring security of people and especially most vulnerable groups are the core reason why functional CAPs are needed. The activity supports a better collaboration between different actors in EWS and thus enhanced security in hazardous situations.
 - *Promote coherence:* CAP will be aligned with international standards. The CREWS project further aligns intensely with the World Bank led PGRAC project in order to ensure coherence.

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 July 2021	Target for the reporting period	Progress by December 2021
Preparedness & response plans at national and community level strengthened and accessible	<ul style="list-style-type: none"> - Risk assessment of pilot community conducted - National exercise conducted 	Activity not started	Activity not started	Activity not started
Standard Operating Procedures (SOP) for EWS developed and revised.	<ul style="list-style-type: none"> - SOPs revised and adjusted 	Activity not started	Terms of reference for consultancy developed	Activity not started

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.

Contribution to (selected) CREWS value propositions:

- *Gender responsive & people centered*: Ensuring security of people and especially most vulnerable groups are the core reason why functional SOPs are needed. The activity supports a better collaboration between different actors in EWS and thus enhanced security in hazardous situations.
- *Promote coherence*: Model SOPs are also currently reviewed within the CREWS Caribbean project. The results and best practices will be taken into account for Haiti in order to promote coherence in the region. This further support building sustained institutional capacity by defining roles and responsibilities.



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 July 2021	Target for the reporting period	Progress by December 2021
Gender-responsive public awareness in key hazards developed	- Awareness products created (tbd)	Activity not started	Activity not started	Activity not started
Awareness videos (Ocean Buoys & Costal Inundation) adapted to Caribbean context available in French Créole (funded by Canada CREWS project)	- 2 videos available in French Créole	Activity not started	Video-production company contracted,	Video-production company contracted

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

Contribution to (selected) CREWS value propositions:

- *Gender responsive & people centered:* The videos specifically target most vulnerable groups and seek to change and educate on behavior in the context of Marine hazards. Through the provision of a translation in French Créole, a broad population of Haiti can be reached which leads to enhanced security in hazardous situations. Further awareness products specifically targeting woman tbd.
- *Solution oriented & promote coherence:* The provision of awareness videos is a best practice which has been applied successfully in the Pacific (specifically Fiji). Through simple and pragmatic explanations and recommendations which will be spread all over the Caribbean, this activity promotes regional coherence and shared common knowledge.



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CREWS Output(s) 6: Gender-sensitive training, capacity building programmes provided				
State Project Output(s) in this section	Overall Project Target	Progress by July 2021	Target for the reporting period	Progress by December 2021
TBD	TBD	TBD	TBD	TBD
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> n/a				

11.2 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 July 2021	Target for the reporting period	Progress by December 2021
n/a	n/a	n/a	n/a	n/a
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> n/a				



13. 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*

Project launch: [New funding and strategic plan boosts Haiti's Hydro-Meteorological Service | World Meteorological Organization \(wmo.int\)](#)

14. 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.*

15. 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*

2021 - Q1 & Q2 | See also CREWS project Status report Jan-June 2021

- Exploratory meetings held with participants from UHM, WMO, DGPC, CSNA, the World Bank (WB) and the United Nations Office for Disaster Risk Reduction (UNDRR) to discuss further needs of UHM Haiti as project activities of ECCC Haiti were coming to a close (Jan)
- CREWS Haiti project officially launched (27. Jan). Participants of launch-event included representatives from CREWS Secretariat, the Ministère de l'Agriculture Haiti, the Ministère de l'Environnement, the Office National Aviation, the Civile Direction Nationale Eau Potable, the Centre National Information Geo Spatial, the Service Maritime et Navigation, the Unité Hydrométéorologique D'Haïti, the Coordination Nationale Sécurité Alimentaire , the Direction Générale Protection Civile , Caribbean Disaster Emergency Management Agency, WMO as project implementing partner as well as international organizations such as, WB, UNDRR, UNDP Haiti, ECCC Canada, MétéoFrance, USAID
- First Project Steering Committee (June) held. The goal was to outline project activities and assess synergies with the CREWS Caribbean project. Meeting participants included representatives of the UHM, WMO, WB, UNDRR and UNDP.