

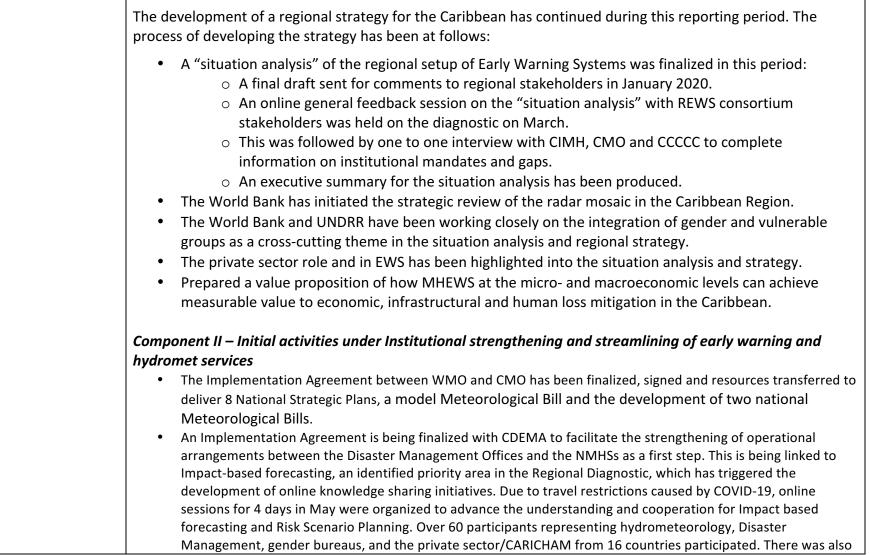
### **CREWS PROJECT STATUS REPORT**

1.	Project title	Caribbean - Strengthening Hydro-Meteorological and Early Warning Services	2.	<b>Project reference</b> CREWS/CProj/04/Regional Caribbean
3.	Lead IP	World Bank	4.	Other Implementing Partners World Meteorological Organization (WMO) UNDRR
5.	Reporting period	January – June 2020		
6.	Reporting focal point	Melanie Simone Kappes – <u>mkappes@worldbank.org</u> Anna Maria Bogdanova – <u>ambogdanova@worldbank.o</u> Other IP focal points:	rg	
		Jay Wilson - jpwilson@wmo.int Donna Pierre – <u>dpierre@wmo.int</u> Jair Torres- jtorres@eird.org		
7.	Project overview	Please include synergies, leveraging, key project deliver words) <u>Budget</u> : US\$ 5.5 million - implemented by the WB/GFDF first project involving all three IPs). <u>Leveraging</u> : This project is complemented with US\$ 1.5 WMO.	RR, i	n collaboration with WMO and UNDRR (This is the



	Objectives: To strengthen and streamline regional and national systems and capacity related to weather forecasting, hydrological services, multi-hazard impact-based warnings and service delivery for enhanced decision-making.Key Deliverables: (i) Regional strategy to strengthen and streamline early warning and hydromet services; (ii) Institutional strengthening and streamlining of early warning and hydromet services; (iii) Piloting high priority national activities on end-to-end EWS including impact-based forecasting.				
8. Progress summary	What has been achieved between January - June? – Please list the most significant and tangible developments? Overall, the implementation progress is rated as <b>satisfactory</b> . Rate of implementation is slightly lower th				
	expected, however the project remains strongly aligned to the objectives. The most significant developments are as follows: General progress:				
	<ul> <li>After presentation of the results of the regional diagnostic and Regional Strategy Outline at CDM Conference (Dec 2019) together with the official launching of the "Regional Early Warning Systems Consortium", CREWS Caribbean substantially gained visibility and momentum in the region. The expectations for the development of a regional EWS strategy have augmented and the first semester of 2020 was set as the time to deliver on that.</li> <li>However, the global uncertainty caused by the development of the Covid19 pandemic jeopardize the normal development of the project. (A number of planned activities that support Component 2 were also affected by Covid19. As a result, remote sessions were organized and implemented for some</li> </ul>				
	activities.) Component I - Development of a regional EWS Strategy:				







<ul> <li>the involvement of Cuba, the RSMC/NHC based in Miami, KNMI from the Netherlands, and RFSF Martinique. WB GFDRR and UNDRR also supported the activity.</li> <li>An SWFDP Technical training was planned for April 2020 for RFSF Martinique however, due to restrictions caused by COVID-19, this training is postponed</li> </ul>
<b>Component III – Support for piloting high priority national activities including impact-based forecasting</b> An initial proposal list of projects proposed under this component has been prepared, as well as the criteria for selecting projects and regional/national partners for their implementation. The decision on which piloting high priority activities will be implemented is planned to be made in the next Project Steering Committee.



# 9. Project Performance

	Interpretation of color coding						
	Good progress; on track in most or all aspects of delivery						
•	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	Rate of expenditure is on track with US\$915,247 (35%) (WB), US\$ 523,650 (23%) (WMO), and US\$ 78,652.05 (24%) (UNDRR) of approved US\$5,500,000 being expended.	Regional situation analysis has been finalized and regional strategy has been drafted, with strategic initiatives outlined. While the rate of delivery is on track in most aspects, the development of the regional situation analysis and strategy experienced some delays.	The project remains strongly aligned to the objectives.



### **10.Risk Management Status**

Risk Status	What is the current risk status as compared to what was identified in the project proposal?					
	Currently, the risk is rated as high as the COVID-19 crisis continues to unfold in the Caribbean:					
	<ul> <li>Regional stakeholders, as Caribbean Disaster Emergency Management Agency (CDEMA) and Caribbean Public Health Agency (CARPHA), have intensified their efforts to lead the multi-sectoral coordination in support of regional and national response to the crisis. This fact greatly limits their ability to participate in CREWS project activities.</li> <li>Several important regional events were consultation on the situation analysis and strategy were intended have been canceled, as the Hurricane Committee - 42nd session and the VII Regional Platform for Disaster Risk Reduction in the Americas and the Caribbean.</li> </ul>					
Measures to address	At present, the project's IPs have decided to continue the technical work for the development of the regional strategy with the project's team of experts and to limit the exchanges with the regional partners until more favorable moments.					

### **11.Contributions to CREWS Output(s)s**

### 11.1 National Output(s)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 for	Progress by	Progress by
	Target	reporting period	January 2020	June 2020



National Strategic Plans Developed	100%	0%	0%	0%				
National and Regional Meteorological Bills Drafted	3 Met Bills drafted	0%	0%	0%				
Narrative: briefly indicate the major issues or challenges	faced and mitigation ste	eps taken to address	ing them. (150 to 200	words)				
	The Implementation Agreement between WMO and CMO has been finalized, signed and resources transferred. CMO received resources in							
April but limited progress due to COVID-19. To date disc								
implementation. On completion, concrete targets would	be established to impr	ove reporting on th	is deliverable. The Tol	R to develop the				
meteorological bill template has been agreed to and finali	zed by all stakeholders	and CMO is in discus	sions with the attorne	y general's office				
in Trinidad, who has agreed to support this activity.								

# 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	Target for reporting period	Progress by January 2020	Progress by June 2020
Hydrological observation, data management and flood forecasting strengthened	Implementation of a River Flood Forecasting System in Haiti and Dominican Republic	0	N/A	0
WMO Cascading initiatives implemented	2 SWFDP RSMT Meetings	1 RSMT Meeting	1 RSMT Meeting 0	0 1 (affected by COVID-19)



	10 SWFDP Regional Trainings conducted	1 SWFDP Regional Training Conducted		
Biannual Caribbean Climate Outlook Fora	6 CariCOFs held	1	1	1 (changed from face to face to online)
Multi-hazard early warning systems, risk assessments and impact-based forecasting introduced	3 regional training events on hurricane forecasting 2 Regional Training events on Impact-	1	1 N/A	1
	based forecasting			

- An SWFDP Technical training was planned for April 2020 for RFSF Martinique however, due to restrictions caused by COVID-19, this training is postponed
- Online sessions from the 5<sup>th</sup>-8<sup>th</sup> of May were organized to advance the understanding and cooperation for Impact based forecasting and Risk Scenario Planning. Originally, a workshop was planned to take place during the 42<sup>nd</sup> Hurricane Committee Meeting but, due to COVID-19 travel restrictions, online sessions were implemented instead.
- CMO was provided support for 2 Operational Forecasting Workshops (EUREC4A). The first was conducted in December 2019 and the second was planned for July 2020 but will be postponed due to COVID-19
- CariCOF scheduled for May was modified in delivery due to COVID-19. CIMH is advancing this activity via online training.

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



State Project Output(s) in this section	Overall Project Target	Target for reporting period	Progress by January 2020	Progress by June 2020
National strategic plans and framework for weather and climate service with an action plan developed	8	0	0	0
Model Meteorological Bill developed	1	0	0	0
Adaptation of the Meteorological bill in two countries completed	2	0	0	0

The Implementation Arrangement process inclusive of transfer of resources was completed by the end of March. CMO has continued with remote preparatory work to preparing the identified countries for roll out of the development process for the plans. This also includes sourcing a team of consultants to develop these documents.

The target countries for the development of NS include Anguilla, Antigua and Barbuda, Dominica, Grenada, Guyana, Jamaica, St. Kitts and Nevis, St Vincent and the Grenadines.

The timeline for the development of a meteorological bill template and the adaptation of the bill in two countries is being reviewed.

# 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 for	Progress by	Progress by
	Target	reporting period	January 2020	June 2020



arrative: briefly indicate the major issues or challenges f	a a a di a a di maliti a a ti a a ta	wa takan ta adduaad	mathem /150 to 200	wanda)
arrative: briefly indicate the major issues of challenges h	aced and mitigation ste	ps taken to address	ng them. (150 to 200	woras)
	•	•	•	

CREWS Output(s) 5: Knowledge products and awareness programmes on early warnings developed				
State Project Output(s) in this section	Overall Project Target	Target for reporting period	Progress by January 2020	Progress by June 2020



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

State Project Output(s) in this section	Overall Project Target	Target for reporting period	Progress by January 2020	Progress by June 2020
National workshops for 'gender and vulnerable groups in early warning system' training with regional strategy consultation implemented	3 national workshops	0 national workshops	4 national workshops	4 national workshops



As the integration of gender and vulnerable groups is a cross-cutting theme, the process is linked to the development of the regional diagnostic and strategy; there were very few existing gender and vulnerable group statistics and advances in relation to EWS in the Caribbean region, for which the workshops included a large consultation component, in order to collect information for the regional diagnostic, as well as recommendations for the strategy. It was possible to rise the interest of the national entities as it was recognized as a key factor in implementing the workshops, collect the inputs and guarantee ownership also for the actions defined in the strategy. The workshops were conducted in St. Lucia (July), St. Vincent and the Grenadines (September), Dominica (November) and Antigua & Barbuda (November).

### 11.2 Regional Output(s)s

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	Target for reporting period	Progress by January 2020	Progress by June 2020
Regional development strategy agreed with regional and national stakeholders	Regional EWS strategy	Diagnostic finalized and strategy draft prepared.	Situation analysis draft elaborated. Strategy outline prepared and presented at the CDM conference.	Finalization of situation analysis. Strategy draft prepared and sent for comments.
Integration of gender aspects and other vulnerable groups (children, elderly and the disabled) in the regional strategy for early warning systems.			Gender and vulnerable groups considerations incorporated in	Gender and vulnerable groups considerations incorporated in regional strategy.



			regional situation analysis.	
Evaluation of the status and available gaps in the existing Doppler radar network.	Report on Doppler radar network produced.	Report on Doppler radar network produced.	The consultant for the study has been identified and contracted.	Inception report prepared. Assessment report has been postponed due to cancelation of in field mission (Covid19).
Assessment of socio-economic benefits of better hydromet services and EWS	Value proposition of MHEWS in the Caribbean prepared.	Finalized the value proposition report.	Information on socio-economic impacts of disasters and MHEWS in the Caribbean gathered.	Value proposition of MHEWS in the Caribbean prepared.
Set of priority investments and potential partnerships, including with private sector, identified	Set of priorities	First list of priorities identified.	N/A	First list of priority investments identified in the strategy document.

Complex institutional setup in the region with numerous regional stakeholders and consortia. To mitigate the risks, the Bank and other IPs reached out to key stakeholders and consortia and incorporated them in the process of diagnostic and strategy drafting by co-organizing and participating in several regional meetings and events. The PSC also played a critical role, advising and endorsing the process for the regional strategy elaboration, and providing advice on a continuous basis.

Regional and national stakeholders have intensified their efforts in response to the Covid 19 crisis. This fact greatly limits their ability to participate in CREWS project activities. To mitigate this the Bank team working on the strategy has decided to intensify the technical work that can be developed on their own and limiting the iterations with regional and national limit iterations until products closer to the final versions are available.



### **11.3 Contributions to Value Propositions**

Gender Sensitive	The project has gender and vulnerable groups as cross-cutting themes. This enables the EWS to consider the different groups, reach more people, specifically the ones most at risk, and further contribute to the concept of people-centered EWS.
Multiplier	By identifying regional best practices in the diagnostic, the regional strategy aims at building on them and replicating them across the region.
People-centered	People-centered approach has been identified as one of the core values of the regional strategy that is under development.
Promote Coherence	The IP team is closely coordinating with stakeholders that are active in the region around the topic of end-to- end EWS, including regional organizations, consortia and other development partners. A mapping of ongoing projects and initiatives is planned to take place in a few months.
Solution-oriented	The regional strategy is identifying "strategic initiatives" that could be game changers, as they are addressing and offering solutions to some or the main weakness and bottlenecks identified in the diagnostic.
Unique	While many national plans to strengthen EWS and regional plans to strengthen EWS aspects exist in the region, there is not yet any regional strategy that would set the frame for national level strengthening.

### **12.** Visibility products

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- a. Insert or copy any links to press releases, videos or communication items and/or social media links
- In order to communicate progress, share information and for consultation purposes the following website was established:
   www.GFDRR.org/en/crews-caribbean



#### **13. Supporting documents**

- a. List and annex to the report any documents providing details on project activities such as reports of training sessions, assessment reports, online solutions and tools, manuals, summaries of high-level discussions etc.
- BTOR of January Mission to Barbados
- Readouts of the REWS Consortium Meeting on March 4<sup>th</sup> to comment on the CREWS regional situation analysis of MHEWS.