



Climate Risk & Early Warning
Systems

Joint Reporting on Status of CREWS Portfolio from January – June 2021 (interim report)



CREWS/SC.13/infdoc.4

13th CREWS Steering Committee Meeting
17 June 2021



Australia



Finland



France (Chair)



Germany



Luxembourg



Netherlands

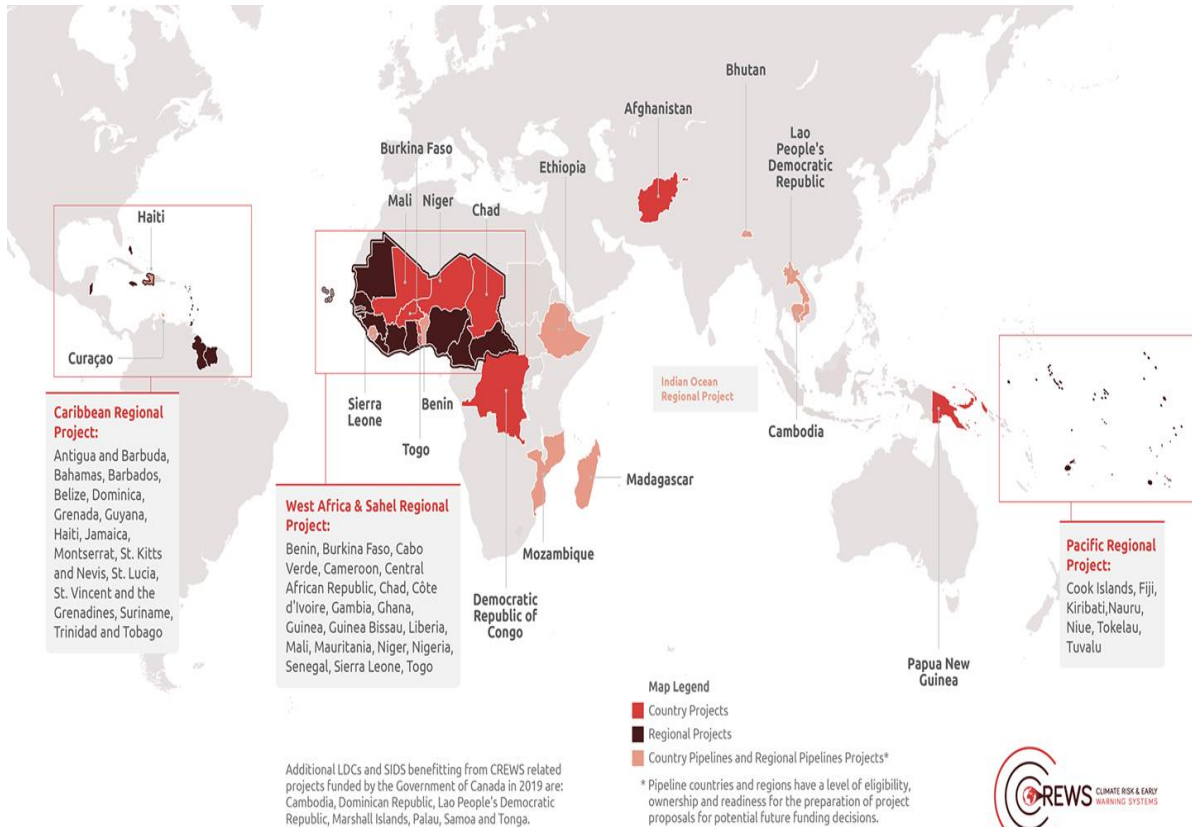


Switzerland



United Kingdom

Content



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- Risk Status

AFRICA

Leveraging

Project	In USD	Leveraging and synergies (in USD)	Leveraging factor
Burkina Faso	2,192,200 (WMO)	GCF 23 million / IDA 8.5 million / USAID 300k / GEF 3.6 million / CREWS West Africa	16x
Chad	3,150,000 (WB, WMO)	IDA 10 million (pipeline, regional) / CREWS West Africa	TBD
Democratic Republic of the Congo	3,090,000 (WB, WMO)	GDFRR 2.7 million / GEF 5.2 million	2.5x
Mali	3,333,000 (WB, WMO)	GCF 31 million / IDA 8.25 million	12x
Niger	2,740,000 (WB, WMO)	PPCR 13 million / IDA 10 million / CREWS West Africa	8x
Togo	2,365,000 (WB, WMO)	IDA 10 million (pipeline, regional) / CREWS West Africa	TBD
South-West Indian Ocean (regional)	4,000,000 (WMO, WB, UNDRR)	GCF 53 million / ACP-EU 6 million / AFD 12.4 million / IDA 10 million	20x
West Africa (regional)	5,334,555 (WMO, WB)	IDA 20 million (pipeline, regional) / ACP-EU 5 million / ACP-EU 8 million	2.4x

CARIBBEAN

Leveraging

Project	In USD	Leveraging and synergies	Leveraging factor
Caribbean Regional (CARICOM)	5,500,000 (WB, WMO, UNDRR)	Building seamless multi- hazard early warning under the CREWS Initiative (Environment and Climate Change Canada) (CAD 2,000,000 for the Caribbean)	0.36x
Haiti	1,500,000 (WMO)	ECCC (USD 6.5M) / WB (USD 5M) / CREWS Caribbean (USD 5.5 M)	8x



PACIFIC

Leveraging

Project	In USD	Leveraging and synergies (in USD)	Leveraging factor
Pacific	7,299,999 (WMO, WB/GFDRR, UNDRR)	Canada-CREWS 2.9 million + WB Pacific resilience program (Samoa 14 million, Tonga 15 million, Marshall Island 20 million) + Australia Climate and Oceans Support Program in the Pacific (COSPPac) 16 million. GCF Projects.	9x
Papua New Guinea	1,650,000 (WMO)	BoM Climate and Oceans Support Program in the Pacific (COSPPac) + Australia 600,000	0.36x

Afghanistan

Leveraging

Project	In USD	Leveraging and synergies	Leveraging factor
Afghanistan	3,665,000 (WB, WMO)	<p>Early Warning component of the Early Warning, Early Finance and Early Action Project (\$15.8M)</p> <p>CAWEP grant for AFG-TJK collaboration on hydromet and flood risk management (\$0.2M)</p> <p>Hydromet component of the Irrigation Restoration and Development Project (\$28.9M)</p> <p>Central Asia and Afghanistan Flood Early Warning System (CAFEWS) project (\$2M)</p>	12.8x

Highlights – Africa Region

BURKINA FASO

- [High-level meeting 23 March 2021](#) --> MoU signed for WMO provision of advisory services to the Hydromet project
- Operational testing of soil moisture sensors for early response to drought conditions (irrigation, food security)
- Project evaluation (see [report](#));
- Evaluation of socio-economic benefits in pilot sites (see [report](#));
- Flash Flood Guidance System, expected to be delivered (including trainings) and operational in 2021
- Proposal for operating procedures for rapid warning will be developed as a partnership between the CREWS and (WBfunded, government-implemented) Hydromet project

CHAD

- Twinning arrangements with the national met service (**ANAM**), **Météo-France** (for climate), **Weather Force** (for agrometeorology) and **IRD** (for hydrology and rainfall measurements)
- Study tour in Burkina Faso (Jan 2020)
- Detailed **diagnostic report on MHEWS capacities** finalized (5 domains: meteorology, hydrology, civil protection, food security, agriculture)
- Multi-hazard decision support started for **producers and villagers** in 3 pilot sites
- **Innovations:** automatic production of agromet indices, telemetry, rainfall estimates based upon cellphone networks' attenuation

Highlights – Africa Region

DEMOCRATIC REPUBLIC OF CONGO

- DR Congo's **National Framework for Climate Services** is validated.
- Training needs assessment at national Met Service carried out and training programme nearly finalized. 483 staff to be trained.
- **Technical Assistance** to support the acquisition and installation of hydromet equipment.
- Deployment of a **flood EWS** in two pilot watersheds is ongoing with CREWS technical support.
- **Development of a business plan** for MettelSat is ongoing.
- **Data Rescue**: Technical assistance to rescue and archiving of historic climate data and their conversion to digital format.
- **QMS for aeronautical meteorology**: A national consultant on QMS has been recruited and making progress on the various documents to support the process.

MALI

- Bamako community mapping to support flood management, flood modelling, flood forecasting. The project is also supporting the preparation of the new urban resilient project.
- Training and networking of women's associations on climate related risks and early warning mechanisms.

Highlights – Africa Region

NIGER

- Dissemination campaign of alert messages through an information spot on Floods before the Guinean Floods in December-January.
- Continued support to the connectivity of the agencies involved in Early warning (civil protection, hydrology, meteorology and humanitarian)
- Terms of reference were prepared and a consultation was launched to conduct an evidence-based analysis informing the strengthening and modernization of Niger's hydromet and early warning services.
- Terms of reference for an “Institutional mapping of Early warning system for Food security and Social protection” were developed and a consultant recruited.

TOGO

- Expert engaged to develop a monitoring systems for the National Framework for Climate Services (NFCS, adopted in 2018), and provide guidance for the inter-ministerial steering committee
- National assessment on Multi-Hazard Early Warning System capacities underway, involving 4 national institutions. Hydro-Met services and civil protection have improved cooperation through this process.
- Diagnostic on flood early warning needs of farmers in 2 river basins – Oti and Mono – is underway
- Training strategy under development to enable women leaders' contributions to DRR in 2 regions
- A series of 4 activities on: (i) Training of networks of education professionals; (ii) Development of sectoral rapid community evacuation plans; (iii) Creation and training of the network of media; (iv) Capacity building of the actors of the national DRR platform on analysis of GIS data and the establishment of a GIS web portal for ANPC.

Highlights – Africa Region

SOUTH-WEST INDIAN OCEAN

- 3 partnership agreements under consideration with **IOC, RSMC La Réunion** and **RSMC / RTC Pretoria**
- **Team of consultants** identified to develop detailed recommendations for optimal use of the AFD-funded IOC-led 74 million USD Hydromet investment
- In Mozambique, supported the hydrometeorological and socioeconomic impact assessment of Tropical Cyclone Eloise that hit in January 2021.
- In Seychelles, the WB is supporting the revision of the hydromet and DRM policies to strengthen the link between forecasting and early action.

WEST AFRICA

- 5 new partnership agreements signed with **RSMC Dakar, GISC Casablanca, AEMET, BSC** and **Météo France** for capacity development and weekly briefings for 19 ECOWAS and CILSS Member States - data sharing, severe weather forecasting (including sand and dust storms)
- 3 new partnership agreements under consideration with **INRAE, IRD** and **SEPIA** for integrated flood forecasting
- SWFP training workshop 25 May -3 June 2021 with **RSMC Dakar**
- **DWD** tools (cataloguing of extreme events and climate watch) transferred to **AGRHYMET**
- **MISVA** analysis carried out by **Météo-France**, **S2S** analysis carried out by **IRI**
- Sierra Leone: CONOPS drafted, support for open-source climate data management

Highlights – Caribbean

CARIBBEAN

- “Strategic Roadmap for Advancing MHIEWS in the Caribbean 2020-2030” drafted and shared with regional stakeholders for consultations.
- Economic Analysis” for the strategic initiatives proposed under the Roadmap underway.
- Early Warning Systems Checklist implementation underway in three countries (Barbados, Trinidad and Tobago, and Guyana)
- Wet season CariCOF held over a two-day virtual session with the forecast for the upcoming season issued on 26 May and the health-related session held on May 28, 2021.
- “Priority Activities” that will be implemented under Component 3 of the project advanced.

HAITI

- Formal launch of project – January 27, 2021
- Established a Project Steering Committee to provide effective governance for the initiative
- Incorporated Cuba INSMET in the PSC
- Maintained the corporation of MeteoFrance and UNDP
- Kicked-off the project with an extraordinary meeting inviting project lead and implementing partners for CREWS Caribbean (June 7, 2021)

Highlights – Pacific

PACIFIC REGION

- The Kiribati National Strategic Plan and Framework for Weather, Climate and Ocean Services was finalized and launched in March 2021
- The development of National Strategic Plans and Frameworks for Weather, Water and Climate Services for Palau, the Federated States of Micronesia and the Republic of the Marshall Islands is ongoing
- Tonga is piloting products from agriculture with 5 farmers, and Solomon Islands have arranged a workshop on product terminology with relevant stakeholders
- Training under Severe Weather Forecasting Project took place virtually in May 2021 with 72 participants from 8 Pacific SIDS
- Agreements with Bureau of Meteorology (Australia) and the Secretariat of the Pacific Regional Environment Programme under preparation for capacity building and community based Early Warning Services under Pacific 2.0
- Technical report, An Introduction to Developing Impact-Based Forecast and Warning Services in the Pacific Islands has been prepared and delivered to Tonga and Samoa government counterparts (May 2021); kick-off meetings on IBFWS organized in Samoa (April 2021) and Tonga (May 2021)
- Technical meetings with Fiji Meteorological Service (FMS) organized and Terms of Reference on tropical cyclone forecast and flood warning warning prepared and specialists on board.

PAPUA NEW GUINEA

- Three stakeholder workshops were held, including the bi-annual National Climate Outlook Forum
- Equipment procured for the Data Rescue initiative, the digitization process started
- Operational use of WMO Space-based Weather & Climate Extreme Monitoring Demonstration Project (SEM DP) products for drought detection and monitoring tailored for local user needs
- Experimental set of BoM ACCESS-S high resolution S2S climate prediction products produced and provided on a weekly basis to the 'Climate Smart Agriculture opportunities for enhanced food production in PNG' project
- 2 papers were published (i) on accuracy of WMO SEM DP satellite precipitation estimates and (ii) on drought detection using satellite-derived products.

Highlights – Afghanistan

AFGHANISTAN

- Concept of Operations (CONOPS) developed
- Modern Impact-Based Weather Forecasting guidance document prepared
- Hydromet Service Delivery Strategy framework document prepared
- Rapid Assessment of DRM Capacities completed
- Afghanistan Drought Early Warning Decision Support Tool (AF-DEWS) prototype developed
- Central Asia and Afghanistan Flood Early Warning System (CAFEWS)
- ICON in the Cloud started
- Capacities of Hydromet Services: Dynamic Water Resources Assessment Tool (DWAT) utilized
- Cooperation and Twinning with TSMS ongoing

Highlights – Global project

MEASURING EFFECTIVE EWS

- Process started to develop the custom indicators to report on Multi-Hazard Early Warning Systems effectiveness in the Sendai Framework Monitor.
- The following was achieved so far:
 - ✓ International Experts Group on Early Warning System Metrics meetings convened in Feb, May and June to review and provide guidance.
 - ✓ Expert consultation undertaken to understand the needs and learn about existing experiences in measuring effectiveness of EWS.
 - ✓ A smaller sub-working group was established to support the development of the indicator list.
 - ✓ Draft list of indicators and accompanying methodology developed which will be finalized by July 2021.
- Next steps: Integration of custom indicators in the Sendai Framework Monitor & development of training package.

Interim Ratings for Project Performance

**All projects remain aligned with the
CREWS Objectives**

Rate of Expenditure:

6 projects are on track

8 projects with moderate progress

Rate of Delivery:

8 projects are on track

6 projects with moderate progress

Project Performance – Interim Rating

	Rate of expenditure	Rate of delivery	Alignment with objectives
BURKINA FASO	●	●	●
CHAD	●	●	●
DEMOCRATIC REPUBLIC OF CONGO	●	●	●
MALI	●	●	●
NIGER	●	●	●
TOGO	●	●	●
SOUTH-WEST INDIAN OCEAN	●	●	●
WEST AFRICA	●	●	●

	Rate of expenditure	Rate of delivery	Alignment with objectives
PACIFIC REGIONAL	●	●	●
PAPUA NEW GUINEA	●	●	●
	Rate of expenditure	Rate of delivery	Alignment of objectives
HAITI	●	●	●
	Rate of expenditure	Rate of delivery	Alignment of objectives
CARIBBEAN	●	●	●
	Rate of expenditure	Rate of delivery	Alignment of objectives
AFGHANISTAN	●	●	●
	Rate of expenditure	Rate of delivery	Alignment of objectives
GLOBAL	●	●	●

Risk Status

Project	Risk Status
Afghanistan	High
Burkina Faso	Medium
Caribbean	Medium
Chad	Medium/High
Democratic Republic of Congo	Medium/High
Haiti	High
Mali	Medium
Niger	Medium
Pacific	Low /Medium
Papua New Guinea	Medium
Togo	Medium/High
South-West Indian Ocean	Low/Medium
West Africa	Low/Medium
Global	Low/Medium



Thank you

For further information please visit www.crews-initiative.org or
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