



## CREWS PROJECT STATUS REPORT

(July 2021 – May 2025 | Extension phase through December 2026 January)

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| <b>1. Project title</b>               | Burkina Faso: Strengthening National Capacities for Early Warning System Service Delivery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>2. Project reference</b>                                  | <a href="#">CREWS/CProj/03/Burkina</a>                                                                                                                                                                                                                                     |
| <b>3. Lead Implementing Partner</b>   | WMO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>4. Regional/National Partners involved in the project</b> | <a href="#">ANAM</a> (meteo), DEIE (hydro), <a href="#">INERA</a> (agriculture), <a href="#">Météo-France</a> , <a href="#">AGRHYMET</a> , RCC Niamey, RTC Niamey, GISC Casablanca, <a href="#">AEMET/BSC</a> , <a href="#">FURV</a> , <a href="#">UNIFI</a> + consultants |
| <b>5. Project Duration/ Timeframe</b> | January 2017 – December 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                              |                                                                                                                                                                                                                                                                            |
| <b>6. Reporting focal point</b>       | Pinghouinde Michel NIKIEMA, WMO Regional Office for Africa < <a href="mailto:pmnikiema@wmo.int">pmnikiema@wmo.int</a> >                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                              |                                                                                                                                                                                                                                                                            |
| <b>7. Project overview</b>            | <p>Burkina Faso is highly exposed to climate variability, including recurrent droughts, severe rainfall events, sand and dust storms and flood risks. These hazards affect agricultural production, food security, infrastructure, livelihoods and public safety, particularly in communities dependent on rain-fed agriculture and in rapidly expanding urban areas.</p> <p>The <a href="#">CREWS project in Burkina Faso</a>, with a budget of US\$2,192,200, is being implemented by WMO in partnership with <a href="#">Météo-France</a>, <a href="#">AGRHYMET</a>, <a href="#">AEMET/BSC</a>, <a href="#">FURV</a>, <a href="#">UNIFI</a>, <a href="#">INERA</a> and the national meteorological service (<a href="#">ANAM</a>), providing technical assistance in synergy with investments by WMO (USAID, <a href="#">GFCS</a>), the World Bank (IDA, GCF, <a href="#">P164078</a> and <a href="#">P164345</a>) and UNDP (GEF, <a href="#">SAPIC</a>), as well as with the regional <a href="#">CREWS West Africa</a> project (see <a href="#">comprehensive list of Projects in Burkina Faso</a>).</p> <p>Its objective is to enhance Burkina Faso's operational capacity to produce and deliver early warning services, with a particular focus on flood-</p> |                                                              |                                                                                                                                                                                                                                                                            |

related risks, agriculture, food security and severe weather impacts. This approach has helped position the project as a technical foundation for wider modernization efforts under the HYDROMET project.

The project focuses on strengthening the operational capacities of Burkina Faso’s National Meteorological and Hydrological Services and enhancing their collaboration with key user sectors, including agriculture, food security, civil protection, humanitarian actors and the media. It supports the development of seamless early warning services that deliver timely, relevant and actionable information to end-users. This is achieved through capacity development in data management, observation network monitoring, forecasting and analysis tools, and the production of weather, climate and risk information. The project also reinforces user engagement in selected pilot areas, ensuring that early warning products are better tailored to the needs of communities and decision-makers. In doing so, it draws on the technical expertise of national, regional and international partners to facilitate access to appropriate data, products, tools, training and equipment.

Over time, the CREWS Burkina Faso Project evolved into one of the first CREWS “scale-up” initiatives, helping to bridge early technical assistance with larger modernization investments under the Burkina Faso HYDROMET programme. Financed by the Green Climate Fund and the World Bank, the HYDROMET programme represented an overall investment envelope of approximately US\$33 million, aimed at strengthening national hydrometeorological, climate and early warning services. In this context, WMO provided dedicated technical advisory support through Technical Assistance agreements with the Agence Nationale de la Météorologie (ANAM) and the Direction Générale des Ressources en Eau (DGRE), supporting the deployment, integration and sustainable operation of modern hydrometeorological infrastructure and early warning systems.

The project contributed to a substantial modernization of hydrometeorological services in Burkina Faso, including strengthened climate data management, operational forecasting, flood forecasting and warning tools, observing systems, high-performance computing, upper-air observation, public weather dissemination platforms and coordination mechanisms for early warning services. By mid-2025, most major systems supported under the HYDROMET programme had become operational, including forecasting infrastructure, CLIDATA, the SAPCI flood forecasting platform, radiosounding systems, the weather media studio and public dissemination tools. The extension of the CREWS project until December 2026 is intended to consolidate these gains by supporting final operational integration, targeted training, optimization of forecasting and dissemination tools, and the long-term sustainability of the systems and services deployed.

## 8. Progress summary

- The CREWS Burkina Faso Project continued to support the strengthening of hydrometeorological services and early warning systems in Burkina Faso through technical advisory services, operational modernization and institutional capacity development. Over time, the project evolved into one of the first CREWS “scale-up” initiatives, supporting the implementation and operationalization of the approximately US\$ 33 million GCF/World Bank HYDROMET modernization programme in Burkina Faso.
- High-level dissemination and coordination activities were carried out throughout the implementation period, including the high-level meeting held on 23 March 2021 to review project achievements, socio-economic benefits and future scale-up opportunities. In parallel, project evaluations and socio-economic benefit assessments conducted in pilot sites confirmed the positive impact of enhanced agrometeorological and warning services on local communities and agricultural decision-making processes.
- To support these efforts, WMO established and implemented several technical cooperation agreements with national and regional partners, including ANAM, Météo-France, AGRHYMET, AEMET/BSC, UNIFI and INERA. These partnerships contributed to forecasting modernization, agrometeorological services, climate data management, sand and dust storm forecasting, and irrigation decision-support systems.
- **Numerical weather prediction and forecasting modernization**
  - Forecasting capacities were strengthened through specialized training activities covering numerical weather prediction (NWP), severe weather forecasting, seasonal and subseasonal forecasting, and the interpretation of global forecasting products. Access to forecasting products from ECMWF and regional forecasting systems was also enhanced, while operational collaboration with regional forecasting centres and technical partners contributed to improved forecasting practices and strengthened regional coordination.
  - In parallel, the Burkina Faso Warning Advisory System for Sand and Dust Storms became operational, strengthening monitoring and forecasting capacities for sand and dust events across the Sahel region. Operational forecasting capacities

were further reinforced through the deployment of WebGIS forecasting tools and the operational integration of forecasting and dissemination systems.

- In support of these modernization efforts, a High-Performance Computing (HPC) infrastructure, together with operational forecasting workstations and forecasting room modernization components, was procured, deployed and operationalized under the HYDROMET modernization programme.
- **Observing systems and climate data management**
  - Climate data management capacities were strengthened through the deployment and operationalization of CLIMSOFT and CLIDATA systems. At the same time, synoptic stations were progressively integrated into operational climate data workflows, improving the timeliness and quality of meteorological data exchange.
  - Observation network assessments and WIGOS/OSCAR integration activities further supported the modernization of the observing network and strengthened the international exchange of meteorological observations. In addition, radiosounding systems and associated consumables were procured and operationalized, contributing to enhanced upper-air observation capacities in Burkina Faso.
- **Seasonal forecasting and agrometeorological services**
  - Seasonal and subseasonal forecasting capacities were strengthened through technical cooperation with Météo-France and regional partners, including MISVA-related forecasting activities and operational forecasting briefings.
  - At the local level, agrometeorological services were strengthened in pilot municipalities such as Niangoloko, Tenado and Titao through roving seminars, dissemination of climate information and user-oriented advisory services. Complementary training activities on SARRA-H, SARRA-O, LDAS and R-Instat supported crop monitoring, drought monitoring and food security forecasting.

- In parallel, soil moisture monitoring systems and irrigation decision-support tools were tested and operationalized in collaboration with INERA and other technical partners. Surveys conducted in pilot areas demonstrated strong uptake and effective use of weather and climate information products by farmers and local communities.
- **Hydrology and flood forecasting**
  - Burkina Faso actively participated in the implementation of the West Africa Flash Flood Guidance System (WAFFGS), including technical trainings, watershed delineation activities and hydrometeorological data-sharing initiatives. Assessments of flood forecasting and warning capacities were also conducted with national stakeholders to support the development of integrated flood forecasting and warning mechanisms.
  - Under the HYDROMET modernization programme, flood forecasting and warning capacities were significantly strengthened through the deployment of flood forecasting tools and SAPCI flood forecasting systems. Advisory services also continued to support operational coordination between ANAM, DGRE and disaster management institutions, particularly in relation to warning dissemination procedures and operational coordination mechanisms.
- **Public dissemination and operational sustainability**
  - Public weather dissemination capacities were strengthened through the deployment of operational dissemination systems, public display systems and the modernization of public weather communication capacities. A modern weather media studio was also established and became operational, further strengthening the dissemination of weather forecasts and warning information to the public.
  - In parallel, operational websites and dissemination platforms, including meteoburkina.bf and dgre.gov.bf, were strengthened to improve accessibility and operational communication.
  - By mid-2025, most major technical systems financed under the HYDROMET programme had become operational, including forecasting systems, climate data management systems, flood forecasting tools, HPC infrastructure, radiosounding systems and dissemination platforms.

- The extension of the CREWS Burkina Faso Project until December 2026 will support the final operational integration and optimization of forecasting and dissemination systems, additional technical training activities, and the long-term sustainability of the services and infrastructure deployed under the project.

## 9. 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> | Progress on expenditure is rated satisfactory. Approximately 93.1% of the total approved project budget of US\$2,192,200 has been | Delivery progress is satisfactory. The project has strengthened forecasting, climate data management, agrometeorological services, | The project remains fully aligned with national priorities for climate resilience, disaster risk reduction and modernization of |

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|  | utilized, leaving a remaining balance of US\$151,386.08 for the extension period through December 2026. This balance is expected to support final operational integration activities, targeted technical training and sustainability measures for the systems and services deployed under the project. | flood forecasting support and warning dissemination through technical assistance, training and operational support. It has also supported the operationalization of key systems under the HYDROMET modernization programme, including HPC infrastructure, radiosounding systems, forecasting tools and public dissemination platforms. The extension phase will focus on consolidating these achievements through integration, optimization and sustainability support. | hydrometeorological services, as well as with donor and regional early warning priorities. Its combined approach of technical advisory services, capacity development and institutional strengthening has proven relevant to the national context and has supported the successful scale-up of modern hydrometeorological and early warning services. |
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## 10. Risk Management Status

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| <b>Risk Status</b>         | The overall risk remains <b>moderate</b> . Although ANAM and DGRE have strengthened their operational capacities, residual risks remain regarding the long-term sustainability of technically complex systems, staff availability, maintenance arrangements, institutional ownership and the routine operational use of the systems deployed under the HYDROMET modernization programme.                                                                                                                 |
| <b>Measures to address</b> | WMO continues to mitigate these risks through targeted advisory support focused on operational integration, capacity development, system optimization and sustainability. Regional cooperation, remote technical support and coordination with national and regional partners have been reinforced. The extension phase through December 2026 will further support refresher training, institutional strengthening and practical measures to ensure the sustained use of deployed systems and services.. |

## 11. Contributions to CREWS National Outputs

**CREWS National Output 1: National Meteorological and Hydrological Services' delivery improved, including the development of long-term service delivery strategies and development plans**

| Project Outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Overall Project Target | Target for reporting period | Progress by Dec 2020 | Progress by 2026 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|----------------------|------------------|
| 1.1. Assessment of the observing network as an update of the <a href="#">SAP-IC midterm review report (2017)</a> , updating of the OSCAR/surface database and improvement of data sharing into the WMO Information System (WIS). Meteorological stations' metadata has been collected. Four missions took place between 2018 and 2020, including the last mission conducted from 10–14 February 2020. Equipment was provided and training delivered to 10 observers operating the synoptic stations. Since then, all 10 stations have been feeding the WIS eight times per day, compared to once previously. Additional guidance developed under CREWS contributed to subsequent modernization investments implemented under the approximately US\$ 33 million HYDROMET programme, including strengthening of observing systems, climate data management infrastructure and operational data exchange capacities.                                                                          | 100%                   | 100%                        | 100%                 | 100%             |
| 1.2. Assessment of the hydrological service's national capabilities as an update to Serge Pieyns' reports ( <a href="#">2014</a> ; <a href="#">2016</a> ; <a href="#">2017</a> ; <a href="#">2018</a> ) with specific focus on end-to-end flood forecasting and early warning and recommendations towards modernization using CREWS and GCF/IDA resources. The assessment report was developed between May and October 2019 and delivered in November 2019. It provided strategic and technical guidance for strengthening hydrological forecasting, flood early warning and operational coordination mechanisms in Burkina Faso. The recommendations developed under CREWS contributed to subsequent modernization activities implemented under the approximately US\$ 33 million HYDROMET programme and the wider water resources and sanitation investments, including strengthening of flood forecasting systems, hydrometeorological coordination and operational warning capacities. | 100%                   | 100%                        | 100%                 | 100%             |

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| <p><i>1.3. Assessment of agro-meteorological users' requirements with regards to climate warnings in 3 pilot areas (Niangoloko, Tenado, Titao) and detailed work plan for the CREWS agro-meteorological component.</i> The first mission to evaluate requirements was held from 17–22 December 2017. A detailed list of requirements was progressively updated based on lessons learned from the provision of climate services during the 2018, 2019 and 2020 cropping seasons. Local representatives from the Ministry of Agriculture were trained through a series of field and regional workshops to respond to emerging needs expressed by vulnerable farmers, including women, while ANAM progressively strengthened its agrometeorological bulletins and advisory services. These activities contributed to the operational strengthening of agrometeorological services and climate information dissemination capacities under the broader modernization programme.</p> | 100% | 100% | 100% | 100% |
| <p><i>1.4. A licence was procured on 31 October 2017 covering 100 GB of daily downloads from November 2017 until October 2019. Since 2019, access to ECMWF datasets has been provided through RSMC Dakar under the SWFP project, and since October 2025, ECMWF access has been available free of charge. These forecasting resources contributed significantly to strengthening operational forecasting capacities and severe weather forecasting services within ANAM.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100% | 100% | 100% | 100% |
| <p><i>1.6. Development of an interface responding to the specific requirements of Burkina Faso as part of the West Africa Severe Weather Demonstration Project (SWFDP-West Africa).</i> The <a href="#">RSMC Dakar password-protected website</a> remains available in both French and English languages. Numerical Weather Prediction (NWP) products, including EPSgrams and severe weather guidance products from several global forecasting centres (e.g. ECMWF, NOAA/NCEP, UKMO and Environment Canada), continue to support operational forecasting activities within ANAM and NMHSs of West Africa. Through the SWFDP framework and regional forecasting cooperation mechanisms, Burkina Faso strengthened its operational severe weather forecasting capacities and integration of regional forecasting guidance into daily forecasting operations.</p>                                                                                                                 | 100% | 100% | 100% | 100% |

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| <p><i>1.7. Calibration of a crop model (SARRA-H) for the agro-meteorological pilot zones, and setup of Aquacrop for irrigation decision support</i> - A training workshop on CIRAD models SARRA-H and SARRA-O was organized by AGRHYMET from 12 to 23 November 2018 with participants from Burkina Faso, Niger, Mali and Senegal. INERA and UNIFI subsequently calibrated and tested the AquaCrop model at the agrometeorological station of Farako Ba using automatic soil moisture sensors. These activities contributed to strengthening agrometeorological advisory services, drought monitoring capacities and irrigation decision-support tools for climate-sensitive agricultural activities in Burkina Faso.</p>                                                                                                       | 100% | 90%  | 90%  | 100% |
| <p><i>1.8. Development of priority agromet indices based on Land Data Assimilation Systems (LDAS).</i> Météo-France developed and tested agrometeorological indices in Burkina Faso in close coordination with ANAM. A workshop on LDAS was organized by Météo-France in Ouagadougou from 28–29 May 2019. Following this training, additional indices of interest were integrated into the tool, including soil moisture, long dry sequences (+10 to +20 days), biomass monitoring and Leaf Area Index (LAI) forecasting. These activities contributed to strengthening drought monitoring, crop monitoring and agrometeorological advisory services, while supporting the operational use of climate information products within ANAM and related regional initiatives.</p>                                                   | 100% | 100% | 100% | 100% |
| <p><i>1.9. Development of a Flash Flood Forecasting System (FFGS).</i> The initial planning meeting took place from 25–28 June 2019 in Dakar. HRC initiated the implementation of the West Africa Flash Flood Guidance System (WAFFGS), including hydrometeorological data exchange arrangements, delineation of flood-prone basins and integration of forecasting and satellite precipitation products from regional and global partners. An instructional portal with online courses in English and French was established to support FFGS training activities. Training on flash flood hydrometeorology and operational use of FFGS products contributed to strengthening flood forecasting capacities within ANAM and DGRE. The activities implemented under CREWS further supported subsequent modernization of flood</p> | 100% | 75%  | 50%  | 100% |

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| forecasting and warning capacities under the HYDROMET programme, including operational flood forecasting tools and coordination mechanisms for early warning services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |      |      |      |
| <i>1.10. Sand and dust storm forecasting.</i> A Letter of Agreement with the Barcelona Supercomputing Center (BSC) was signed in July 2018 to support the development of a Warning Advisory System for Sand and Dust Storms in Burkina Faso. The Burkina Faso Sand and Dust Storm Warning Advisory System (BF-SDS-WAS) was launched in October 2018 and has since provided daily forecasting information to ANAM forecasters. The initiative contributed to strengthening operational forecasting capacities related to sand and dust storm monitoring and forecasting, while supporting regional cooperation and integration of forecasting products across the Sahel region.      | 100% | 100% | 100% | 100% |
| <i>1.11. Strategic plan for ANAM, as an update to the <a href="#">KPMG Modernization Plan (2014)</a> and <a href="#">National Framework for Climate Services (2016)</a>.</i> Météo-France engaged WeatherForce to support the development of the strategic plan, and the first consultation workshop was held in May 2019. The strategic plan was delivered in November 2019 and provided a framework for the long-term modernization and strengthening of hydrometeorological services in Burkina Faso. The recommendations developed under this activity contributed to subsequent operational modernization and sustainability efforts implemented under the HYDROMET programme. | 100% | 100% | 100% | 100% |

| CREWS Output 2: Risk Information to guide early warning systems and climate and weather service developed and accessible                                                                                                                                             |                        |                             |                      |                  |
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| Project-specific Outputs                                                                                                                                                                                                                                             | Overall Project Target | Target for reporting period | Progress by Dec 2020 | Progress by 2021 |
| <i>2.1. Identification of flood prone areas in a GIS portal.</i> Under the Agreement with HRC, watersheds and flood-prone areas were mapped based on a combination of national and global datasets. The activities contributed to strengthening flood risk analysis, | 100%                   | 50%                         | 30%                  | 100%             |

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| hydrometeorological data integration and operational flood forecasting capacities in Burkina Faso. The recommendations and technical work developed under CREWS further supported subsequent flood forecasting modernization activities implemented under the HYDROMET programme, including operational flood forecasting tools and flood risk monitoring systems.                                                                                    |      |      |      |      |
| <i>2.2. Enhanced drought risk assessment and drought monitoring.</i> The development of crop calendars and training on the use of R-INSTAT for monitoring drought indices took place from 20–24 February 2020. These activities strengthened drought monitoring, crop monitoring and climate risk assessment capacities, while supporting operational agrometeorological services and climate information products for agriculture and food security. | 100% | 100% | 100% | 100% |

| CREWS Output 3: Information and communication technology, including common alerting protocol, strengthened                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                             |                      |                  |
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| Project-specific Outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Overall Project Target | Target for reporting period | Progress by Dec 2020 | Progress by 2026 |
| <i>3.1. Setup of a data concentration and data management system.</i> Twelve PCs, two laptops, one server, 13 external disks and ten mobile broadband devices were procured and delivered to ANAM to strengthen operational climate data management and data concentration capacities. A training was conducted from 5–9 November 2018 prior to deployment of the equipment to synoptic stations, and Internet subscriptions were established to support operational data transmission. The CLIMSOF software was installed on 10 PCs for the synoptic stations in April 2019, followed by two rounds of technical training. The activities significantly improved operational data concentration and exchange capacities, with synoptic stations progressively transmitting data through CLIMSOF using a systematic approach. The work implemented under CREWS further | 100%                   | 100%                        | 100%                 | 100%             |

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| contributed to subsequent modernization of climate data management systems and operational forecasting infrastructure under the HYDROMET programme.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |     |      |
| 3.2. <i>Implementing a decision-support tool for irrigated crops in Burkina Faso.</i> A <a href="#">concept note</a> was developed to improve irrigation scheduling, assess biomass and yield responses using crop water productivity models (AquaCrop) and soil moisture sensors, in Florence on 27 Feb 2020 (see <a href="#">report</a> ). Partnership agreements have been signed on 7 May 2020 with <a href="#">UNIFI</a> and on 17 March 2020 with <a href="#">INERA</a> for the setting-up of the tool.                                                                                                                                                                                                                                                                                                                                     | 100% | 90% | 90% | 100% |
| 3.3. <i>Procurement and installation of soil moisture sensors in pilot sites.</i><br><br>Specifications for pilot sites and sensor configurations were identified for measurements of surface soil moisture and soil moisture profiles at different depths. Soil moisture sensors and associated communication equipment were procured and installed in pilot sites, including Farako Bâ, in support of drought monitoring, irrigation decision support and agrometeorological services. Partnership agreements with INERA supported calibration, validation and operational use of soil moisture monitoring products and irrigation advisory services for sensitive rainfed and irrigated crops. These activities contributed to strengthening operational agrometeorological monitoring and climate risk management capacities in Burkina Faso. | 100% | 90% | 90% | 100% |

| CREWS Output 4: Preparedness and response plans with operational procedures that outline early warning dissemination processes strengthened and accessible                                    |                        |                             |                      |                  |
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| Project-specific Outputs                                                                                                                                                                      | Overall Project Target | Target for reporting period | Progress by Dec 2020 | Progress by 2026 |
| 4.1. <i>Proposal for standard operating procedures (SOP) for warning production, dissemination, response and return on experience in line with the (not adopted) <a href="#">national</a></i> | 100%                   | 10%                         | 10%                  | 100%             |

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| <a href="#"><u>disaster risk reduction law (2014)</u></a> . Terms of reference for the development of Standard Operating Procedures (SOPs) were drafted in 2020 under the World Bank HYDROMET project. Through CREWS technical assistance, WMO provided advisory support to ANAM and DGRE in relation to the conceptualization and development of operational warning coordination mechanisms and early warning procedures, which subsequently supported the development of the national multi-hazard SOP framework under the HYDROMET modernization programme.                                                                        |      |    |    |      |
| <i>4.2. Proposal for data exchange agreement between entities.</i> The project supported discussions and technical coordination on operational data exchange mechanisms between ANAM and DGRE in support of flood forecasting and early warning services. The activities contributed to strengthening institutional coordination, hydrometeorological data sharing practices and interoperability requirements for operational forecasting systems. These efforts subsequently supported the implementation of operational forecasting, flood forecasting and warning coordination systems under the HYDROMET modernization programme. | 100% | 0% | 0% | 100% |

| CREWS Output 5: Knowledge products and awareness programmes on early warnings developed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                             |                      |                  |
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| Project-specific Outputs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Overall Project Target | Target for reporting period | Progress by Dec 2020 | Progress by 2026 |
| <i>5.1. Roving seminars</i> - Seminars involving local radio communicators and agricultural extension agents on agrometeorological services were organized regularly in the pilot municipalities of Niangoloko, Tenado and Titao since April 2018. In total, 1,101 farmers (501 women and 600 men), as well as 56 agricultural extension agents and communicators, benefited from training and enhanced agrometeorological guidance services. The activities contributed to strengthening community-level climate service delivery and user engagement for climate-sensitive agricultural activities. | 100%                   | 100%                        | 100%                 | 100%             |

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| 5.2. <i>Project evaluation with knowledge on Burkina Faso early warning system relevance, effectiveness, efficiency, impact and sustainability</i> - The <a href="#">report</a> is available. The independent evaluation report was completed and provided important lessons learned and recommendations regarding the relevance, effectiveness and sustainability of the CREWS intervention in Burkina Faso. | 100% | 100% | 95% | 100% |
| 5.3. <i>Gender-informed analysis of socio-economic benefits related to the delivery of enhanced products and services in pilot zones</i> - A gender-informed socio-economic assessment captured the benefits of enhanced agrometeorological and climate services during the 2019 and 2020 rainy seasons, particularly for rain-fed agricultural activities and vulnerable communities in the pilot areas.     | 100% | 100% | 60% | 100% |

| CREWS Output 6: Gender-sensitive training, capacity building programmes provided                                                                                                                                                                                                                                                                                                       |                        |                             |                      |                  |
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| Project-specific Outputs                                                                                                                                                                                                                                                                                                                                                               | Overall Project Target | Target for reporting period | Progress by Dec 2020 | Progress by 2026 |
| 6.1. <i>Training on sand and dust storm forecasting was provided to an ANAM forecaster in Cairo from 10–12 February 2018. The training contributed to strengthening operational forecasting capacities related to sand and dust storm monitoring and forecasting services within ANAM.</i>                                                                                             | 100%                   | 100%                        | 100%                 | 100%             |
| 6.2. <i>Training on limited area modelling and numerical weather prediction was provided to two ANAM forecasters in Langen from 12–16 March 2018 and from 8–12 April 2019. These activities contributed to strengthening operational forecasting capacities and the use of numerical weather prediction products for severe weather forecasting and daily forecasting operations..</i> | 100%                   | 100%                        | 100%                 | 100%             |

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| <p><i>6.3. Development of numerical weather prediction capacities.</i> Forecasters from ANAM gained access to forecasting products from ECMWF, UKMO and NOAA/NCEP through dedicated agreements and the SWFDP-West Africa framework. A licence agreement was signed between ANAM and Deutscher Wetterdienst (DWD) for the use of the COSMO numerical weather prediction model. Capacity development activities included specialized regional and international trainings on numerical weather prediction, severe weather forecasting and operational forecasting practices, including training workshops in Lomé, Langen and Ouagadougou. One ANAM staff member also completed a Master's degree in High Performance Computing in Trieste, Italy between September 2018 and October 2019. These activities significantly strengthened operational forecasting capacities, interpretation of global forecasting products and the use of severe weather guidance products within ANAM.</p> | 100% | 100% | 100% | 100% |
| <p><i>6.4. Training of ANAM staff on the use of sub-seasonal and seasonal outlooks in agro-meteorological advisories.</i> A regional training workshop was organized by Météo-France in Toulouse with participation from Burkina Faso, Mali and Niger. The training strengthened the capacity of ANAM staff to interpret and use sub-seasonal and seasonal climate outlooks for agrometeorological advisories, climate services and agricultural decision-support activities.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100% | 100% | 100% | 100% |
| <p><i>6.5. Training on dissemination and use of agromet products</i> - Additional workshops were organized in 2019 in the pilot sites of Titao, Tenado and Niangoloko to disseminate seasonal forecasts and strengthen the capacity of local representatives, radio communicators and agricultural extension agents on the interpretation and dissemination of agrometeorological information. Across the three pilot sites, approximately 180 representatives and 1,100 farmers were trained on accessing, interpreting and communicating climate and agrometeorological information within their communities.</p>                                                                                                                                                                                                                                                                                                                                                                     | 100% | 100% | 100% | 100% |

|                                                                                                                                                                    |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| These activities contributed to strengthening community-level dissemination of climate services and user engagement for climate-sensitive agricultural activities. |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

## 12. Contributions to CREWS Value Propositions

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gender Sensitive</b>  | The project applied a gender-sensitive approach in the identification of user needs and in the assessment of socio-economic benefits in the pilot areas. The design and delivery of agrometeorological services considered the differentiated needs and vulnerabilities of women, men and other vulnerable groups. Training and dissemination activities reached both women and men farmers, contributing to more inclusive access to climate information, agrometeorological advisories and early warning services. This is consistent with CREWS' broader approach, which recognizes that gender influences how people access, interpret and respond to warnings                                                               |
| <b>Multiplier</b>        | CREWS Burkina Faso served as an important technical and institutional foundation for larger-scale modernization investments, including the World Bank/GCF-financed HYDROMET programme and related water resources initiatives. The assessments, pilot activities, technical guidance and operational approaches developed under CREWS helped inform and accelerate the scale-up of forecasting, climate services, flood forecasting, data management and warning dissemination systems at national level. The CREWS project is also recognized as supporting Burkina Faso's capacity to deliver hydrological, meteorological and climate services for early warning, with emphasis on flood risks, agriculture and food security |
| <b>People-centred</b>    | The project placed users at the centre of service delivery by working directly with farmers, agricultural extension agents, local radio communicators and community-level stakeholders in the pilot municipalities of Niangoloko, Tenado and Titao. More than 1,100 farmers benefited from training and enhanced agrometeorological advisory services, supporting more practical use of weather and climate information in agricultural decision-making. The CREWS project page highlights the roving seminars as a practical mechanism for strengthening farmers' self-reliance in the use of climate information.                                                                                                              |
| <b>Promote Coherence</b> | CREWS strengthened coherence by supporting coordination between hydrometeorological services, agriculture, food security, disaster risk management, humanitarian actors, local communicators and other user sectors. The project helped reinforce data-                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | sharing approaches, operational coordination mechanisms and warning procedures, which later informed broader institutional arrangements and SOP development under the HYDROMET modernization programme. This is aligned with CREWS' role as a financing initiative that promotes coherent investment in multi-hazard early warning systems in least developed countries and small island developing States                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Innovation &amp; Solution-oriented</b> | The project supported practical and innovative solutions adapted to Burkina Faso's priority hazards and user needs. These included sand and dust storm forecasting services, agrometeorological advisory tools, drought monitoring products, crop calendars, flood forecasting initiatives and strengthened use of forecasting products and data management tools. CREWS reports progress across four hazards in Burkina Faso: drought, floods, sand and dust storms, and severe weather, with stronger forecasting and warning capacity                                                                                                                                                                                                                                                                                                |
| <b>Unique</b>                             | CREWS Burkina Faso provided a distinctive platform for long-term technical cooperation between national institutions and specialized partners from regional and international centres. Through cooperation with partners including Météo-France, AGRHYMET, AEMET/BSC, FURV, UNIFI and INERA, the project strengthened technical expertise, knowledge exchange, forecasting capacities and regional collaboration. Its added value also lies in its catalytic role: CREWS helped connect targeted technical assistance and pilot activities with larger national modernization investments under the HYDROMET programme. Burkina Faso's recent experience shows how coordinated investments in infrastructure, systems and capacity development can generate tangible improvements in early warning services and disaster risk reduction |

### 13. Visibility products



VIDEO: [CREWS Burkina Faso - mid-term review](#)



[PRESENTATION](#)



VIDEO: [LDAS training workshop](#) , 28-30 May 2019



VIDEO: [Seasonal, sub-seasonal and severe weather forecasting workshop](#), 13-17 May 2019



[From Research to Operation - Presentation of the Burkina Faso SDS WAS](#), March 2019

CREWS Burkina Faso

Fichier Edition Affichage Insertion Format Données Outils Modules complémentaires Aide

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Snipping Tool is moving...

In a future update, Snipping Tool will be moving to a new home. Try improved features and snip like usual with Snip & Sketch (or by the shortcut Windows logo key + Shift + S).

Go Snip & Sketch

| Activité | Lien                                                                                                 | Institution | Coordination     | Statut      | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
|----------|------------------------------------------------------------------------------------------------------|-------------|------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1        |                                                                                                      |             |                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 2        |                                                                                                      |             |                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3        | Developpement du plan de mise en oeuvre du sous-projet régional SATOP                                | Rapport     | OMM              | 8-Sep-2017  | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 4        | Signature de la convention OMM - ANAM                                                                | Let         | OMM-ANAM         | 3-Oct-2017  | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 5        | Signature d'une licence ECOWAT                                                                       | Let         | OMM              | 16-Oct-2017 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 6        | Mission OMM WIGOS                                                                                    | Donnée      | ANAM             | 17-Oct-2017 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 7        | Mission OMM hydrologie                                                                               | Donnée      | DEB              | 6-Nov-2017  | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 8        | PREMIER RAPPORT AU COMITE DE PILOTAGE DE CREWS                                                       | Rapport     | OMM              | 8-Nov-2017  | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 9        | Mission OMM agrometeorologie                                                                         | Donnée      | ANAM             | 17-Dec-2017 | 6    |      |      |      |      |      |      |      |      |      |      |      |      |
| 10       | Formation prévision templates météo et saisonnières                                                  | Rapport     | BIC              | 10-Feb-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 11       | Finalisation du plan de travail - météo prévision saisonnière et agrometeorologie                    | Donnée      | Météo-France     | 15-Feb-2018 | 2    |      |      |      |      |      |      |      |      |      |      |      |      |
| 12       | Formation prévision numérique COMO-CLIM-ART                                                          | Rapport     | OMM              | 13-Mar-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 13       | PREMIER RAPPORT SEMESTRIEL OMM-ANAM                                                                  | Rapport     | ANAM             | 3-Apr-2018  | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 14       | Formation des producteurs et éleveurs en agrometeorologie                                            | Donnée      | ANAM             | 12-Apr-2018 | 15   |      |      |      |      |      |      |      |      |      |      |      |      |
| 15       | Participation de 2 agrometeorologues au 3ème forum de prévisions saisonnières PRESAS                 | Rapport     | ANAM             | 20-Apr-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 16       | Signature de la convention OMM - Météo-France                                                        | Let         | OMM-Météo-France | 8-Jun-2018  | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 17       | SECOND RAPPORT AU COMITE DE PILOTAGE DE CREWS                                                        | Rapport     | OMM              | 14-Jun-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 18       | Signature de la convention OMM - BIC                                                                 | Let         | BIC              | 8-Jul-2018  | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 19       | Mission agrometeorologie & hydrologie                                                                | Rapport     | OMM              | 17-Jul-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 20       | Recrutement d'un ingénieur de recherche                                                              | Let         | Météo-France     | 28-Sep-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 21       | SECOND RAPPORT SEMESTRIEL OMM-ANAM                                                                   | Rapport     | ANAM             | 1-Oct-2018  | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 22       | Rapport sur le système pour le suivi des templates de météo et de saisonnière                        | Rapport     | BIC              | 26-Oct-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 23       | Signature de la convention OMM - AGRIHYMET                                                           | Let         | AGRIHYMET        | 28-Oct-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 24       | Formation en interprétation de la prévision numérique (SATOP) Lomé                                   | Rapport     | OMM              | 20-Nov-2018 | 10   |      |      |      |      |      |      |      |      |      |      |      |      |
| 25       | Mise en place du comité de pilotage CREWS Afrique de l'Ouest & Burkina Faso                          | Let         | OMM              | 15-Nov-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 26       | Formation SARRA-H                                                                                    | Rapport     | AGRIHYMET        | 12-Nov-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 27       | Formation SARRA-H                                                                                    | Rapport     | AGRIHYMET        | 19-Nov-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 28       | TROISIEME RAPPORT AU COMITE DE PILOTAGE DE CREWS                                                     | Rapport     | OMM              | 6-Dec-2018  | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 29       | Comité de pilotage CREWS Afrique de l'Ouest & Burkina Faso                                           | Rapport     | OMM-ANAM         | 18-Dec-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 30       | Analyse des initiatives liées aux services météorologiques, hydrologiques et climatiques             | Donnée      | OMM-ANAM         | 19-Dec-2018 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 31       | PREMIER RAPPORT SEMESTRIEL OMM-ART                                                                   | Rapport     | Météo-France     | 20-Jan-2019 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 32       | Vidéo-conférence sur LQAS                                                                            | Publication | Météo-France     | 12-Feb-2019 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 33       | Evaluation des capacités de l'ANAM et de la DEB en matière de prévision des inondations, Ouagadougou | Rapport     | OMM              | 18-Mar-2019 | 5    |      |      |      |      |      |      |      |      |      |      |      |      |
| 34       | Mission agrometeorologie & hydrologie, Ouagadougou                                                   | Rapport     | OMM              | 22-Mar-2019 | 4    |      |      |      |      |      |      |      |      |      |      |      |      |

[PROJECT MANAGEMENT SPREADSHEET](#) with timeline, contacts, budget, list of synergistic projects and links to deliverables

## 14. Key supporting documents (also available in the output matrices)

*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
- Partnership agreement with [Météo France](#) - MISVA
- Partnership agreement with [ANAM](#)
- Partnership agreement with [UNIFI](#)
- Partnership agreement with [FURV](#)
- Partnership agreement with [AGRHYMET](#)
- Partnership agreement with [INERA](#)
- [Training on Numerical Weather Prediction for warning of severe weather events](#),
- [Training on seasonal and subseasonal forecasting for warning of climate extremes](#),
- [Training on land data assimilation for crop monitoring and food security warning](#),
- [Training on crop calendars and R-Instat for crop monitoring and food security warning](#),
- [Concept note for decision-support and warning of irrigated schemes](#),
- [Flash Flood Guidance System inception workshop](#),
- [Assessment of flood forecasting capacities for flood warning](#),
- Draft [evaluation of socio-economic benefits resulting from enhanced agrometeorological bulletins and warnings](#),
- Draft [project evaluation report](#),
- Final Completion Report – Technical Assistance to ANAM under the Burkina Faso HYDROMET Programme
- Final Completion Report – Technical Assistance to DGRE under the Burkina Faso HYDROMET Programme