## TORS FOR PERSONNEL FROM STAND-BY ROSTERS

## **Basic Information**

Requesting agency	ACMAD	Country	NIGER
<b>Duty station</b>	NIAMEY	Security phase in Country / duty station	3 moderate
Requested date of deployment	November, 2020	Requested length of deployment	12 months
First request (Indicate with Yes/No)	No	Extension (Indicate with No. of extension 1,2,3)	

Please provide name, title, telephone number and e-mail address

Country Representative of requesting agency	Nicole Kouassi	Signature				
Supervisor of Secondee	Andre KAMGA FOAMOUHOUE					
Agency HQ focal point (for pre-departure briefing)	Andre KAMGA FOAMOUHOUE					
Agency field focal point – contact for visa, security clearance, airport pick-up, hotel booking etc (if other than supervisor)	Safiia Alfa ( ACM. Nafissa Moussa ( H	AD Secretariat) uman Resources Officer)				

## Background information/reason for request/extension

•	Current situation in countr	·V

• Existing programme strategies and mechanism

Current internal staffing capacity

Other info

ACMAD is a WMO Regional Climate Centre for all Africa with mandatory and recommended functions. The WMO Regional Association of African National Meteorological and Hydrological Services added the coordination function of Regional Climate Centers in Africa. African countries are requesting climate change information to craft and implement adaptation and resilience projects.

ACMAD is collecting climate change assessment datasets including global and regional projections, developing tools and methods for climate change assessments at regional level.

The deployee will update products, methods and tools through literature review and apply for climate scenarios provision tailored to agriculture, water and disaster risk management sectors. Technical notes, bulletins, reports and summary or statements on climate monitoring, forecasting and assessments are expected.

20 staff members work at ACMAD with 4 in the Department that will host the deployee.

Most African National Meteorological and Hydrological Services(NMHSs) rely on technical partners to provide climate scenarios for national use. The deployee will be involved in training NMHSs to develop and improve capacity on climate change assessments.

Terms of Reference for the Stand-by personnel Name of the Stand- by personnel: Dr Romeo Sosthene Nkurunziza **Role Title: Climate Change Assessment Expert Objectives:** Title and level of - Support data (historical climate observations, forecasts and future climate requested personnel projections) analysis and production of annual report on the state of Africa's climate to raise awareness of the public and the African group of negotiators at UNFCCC Conference of Parties. Objectives and expected output - build capacity of National Meteorological services, ICPAC, AGRHYMET and SCD/CSC for production of sub-regional and national annual state of climate reports for climate change negotiators at country level. validate methods, tools and products for climate change detection and scenario provision for Africa **Outputs:** - 2020 and 2021 Annual State of Africa's climate reports prepared and published - Experts at NMHSs and Regional Centres trained for preparation of state of climate reports for countries or sub-regions - New methods, tools and products for climate change detection and/or scenarios provision validated, - note books for products and technical notes automatic generation available Main duties and responsibilities The Climate Change Assessment Expert, under the overall supervision of the Director-General in liaison with the Chief of Department of Climate and Environment, will assist ACMAD team in preparing the state of Africa's climate reports, training experts and validating new methods, tools and products for detecting climate change in Africa. Specifically, she/he will perform the following duties: Prepare and publish the State of the climate of Africa in 2020 Prepare and publish the Preliminary state of climate for 2021 Prepare Assessment report with climate projections derived change indices Produce the Continental Drought and seasonal forecasts bulletins Develop or update Procedures and scripts for Product generation supporting Reporting and technical notes automated using notebooks (e.g. Jupiter) in collaboration with supervision JRC, NOAA and IRI Prepare or update Training Manuals weekly/monthly and annual report on achievements prepared by the deployee, reviewed and signed by the supervisor Technical note on the state of climate of Africa for 2020 updated/Yearly 2. Provisinal State of climate report for year 2021 prepared/yearly 3. Assessment report with climate projections derived change indices published /Yearly 4. Continental Drought and seasonal forecasts bulletins published / seasonal **Deliverables** 5. Drought Bulleting produced/Monthly 6. On the Job NMHSs staff and other trainees as well as seconded staff mentored/**Ongoing** 7. Climate Diagnostics Bulletin/ decadal

Activities	Tasks	J	F	M	A	M	J	J	A	S	О	N	D
Generation of the technical note on the	1. Update extreme events of climate observed across the continent in 2019.												
state of climate of Africa in 2020 using data from January to December	2. Examine temperature anomalies over the continent and the sub-regions (spatial and temporal anomalies), reveal the rates of												

	temperature increase/decrease, as well as annual cycles.						
	3. Examine precipitation trends annual cycles and cyclone activities over the Indian Ocean						
Durches a state want on the state of	Make a summary of climate statements for Africa and sub-regions based on temperature anomalies (spatial and temporal anomalies),     Indicate the rates of temperature increase/decrease, as well as annual cycles,						
Produce statement on the state of climate of Africa in 2021	3. Examine precipitation in percent of average in 2021 over Africa and subregions,  4. Examine the precipitation trends, cyclones activities over Indian Ocean and drivers of Africa climate						
1.Produce literature review on climate change over Africa	Conduct a Literature Review on Climate     Change detection over Africa to Identify     Changes.						
Produce historical climate change detection for Africa	Collect and archive relevant historical climate data, reanalyses and future climate change projection datasets covering Africa	-					
	2. Analyse historical data for climate change detection.						
3. Generation of climate change projection data for climate change scenarios for the 2120-2050 period in	1.Analysis Changes in Temperature						
Africa to support impact studies and policymaking.	2. Analysis Changes in Precipitation						
5. Produce climate indices for agriculture potential impacts	Computer climate indices using CDO						
	1. Collect extreme events of climate observed across the continent throughout the year 2021						
Generate technical note on the preliminary state of climate of Africa in 2021	2. Examine Temperature anomalies over the continent and the sub-regions (spatial and temporal anomalies), reveal the rates of temperature increase/decrease, as well as annual cycles.						
	3. Examine precipitation in percent of average in 2021 over the continent and subregions						
	4. Examine precipitation trends, annual cycles and cyclones activities over the Indian Ocean						
Generate continental drought bulletins	1. Generate products including monthly precipitation in percent of average, soil moisture anomalies, SPI, Water/lake levels and NDVI-based on availability of datasets.						
Support and supervise training	Train on the Job staff and at workshop of ACMAD on developing climate products/Information for different users						
Make a report on the activities accomplished Procedures, scripts and notebooks	Make a draft report of activities as the year progresses.  Prepare, test and share procedures, script and						
available for automatic products	notebooks with the team						

generation	2. Review and make the final report						
	accordingly					1	

## Other relevant information

The annual report on the state of Africa's climate is a mandatory product of the WMO designated Regional Climate Centre ACMAD. This support will upgrade this report with better climate change indices and future climate scenarios for the continent contribution to IPCC assessments over Africa. ACMAD's partnership with IPCC will therefore be strengthened providing updated climate information for resilience and adaptation to climate change in Africa.