



**COP 26 STRUCTURED EXPERT DIALOGUE 2**  
**Meeting**



# **CLIMATE TRENDS AND IMPACTS FOR AFRICA**

**PREPARED BY: WMORA I/RCC- Africa at ACMAD**

**PRESENTED BY: Andre KAMGA FOAMOUHOUE**

**Position: Director General**



**<http://acmad.net/rcc/>**

**Time 15h00-18h00 GMT**

**DATE:NOVEMBER 02, /2021**

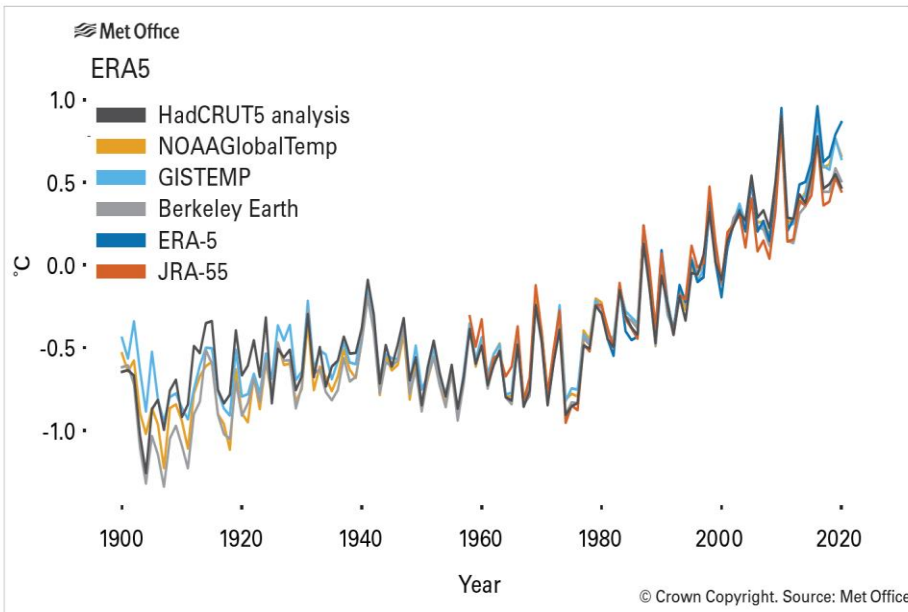
# OUTLINE

- 1. TEMPERATURE TRENDS**
- 2. CHANGES ON PRECIPITATION VARIABILITY**
- 3. TRENDS ON EXTREMES**
- 4. IMPACTS**



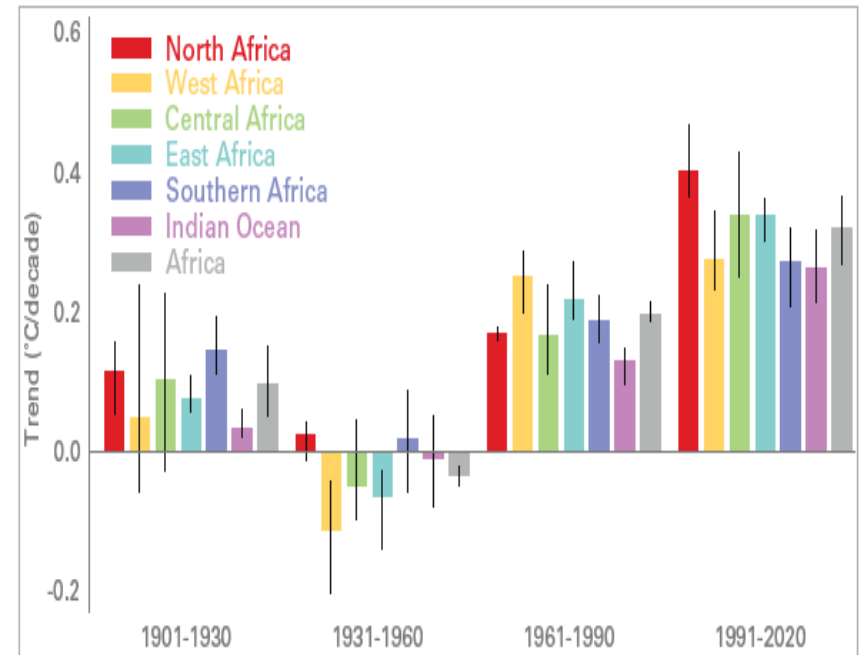
# **AFRICA WARMS FASTER THAN THE GLOBE, NORTH AFRICA HAS THE HIGHEST WARMING RATE ( around 4° C per Century during the last 30 years) OVER THE CONTINENT,**

**SOURCE; STATE OF CLIMATE REPORT FOR AFRICA 2020**

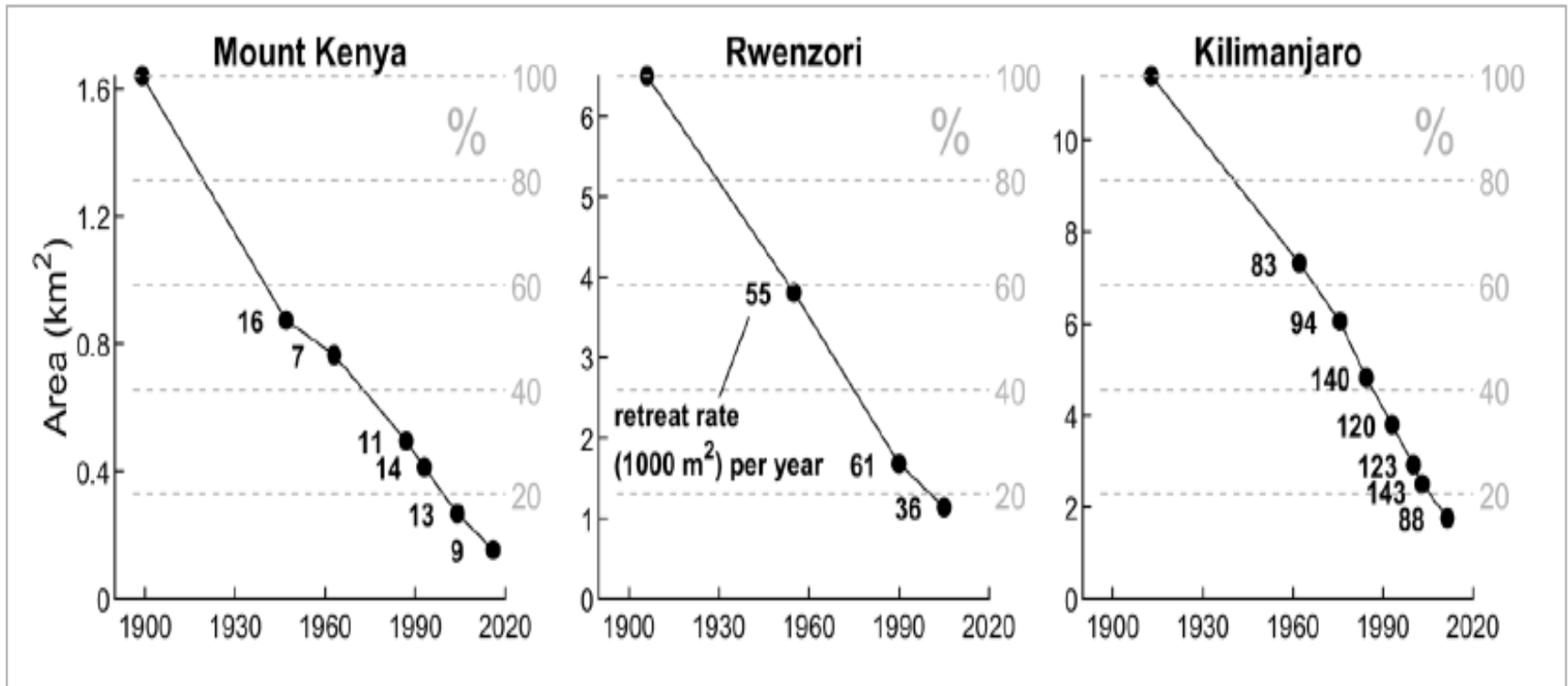


**Figure 2.** Area average land air temperature anomalies in °C relative to the 1981–2010 long-term average for Africa (WMO Regional Association I) based on six temperature data sets.

Source: Met Office, United Kingdom



## CHANGES OF THE GLACIER AREA ON AFRICAN MOUNTAINS, GIVEN THESE TRENDS THE MOUNTAINS WILL BE DEGLACIATED BY THE 2040s

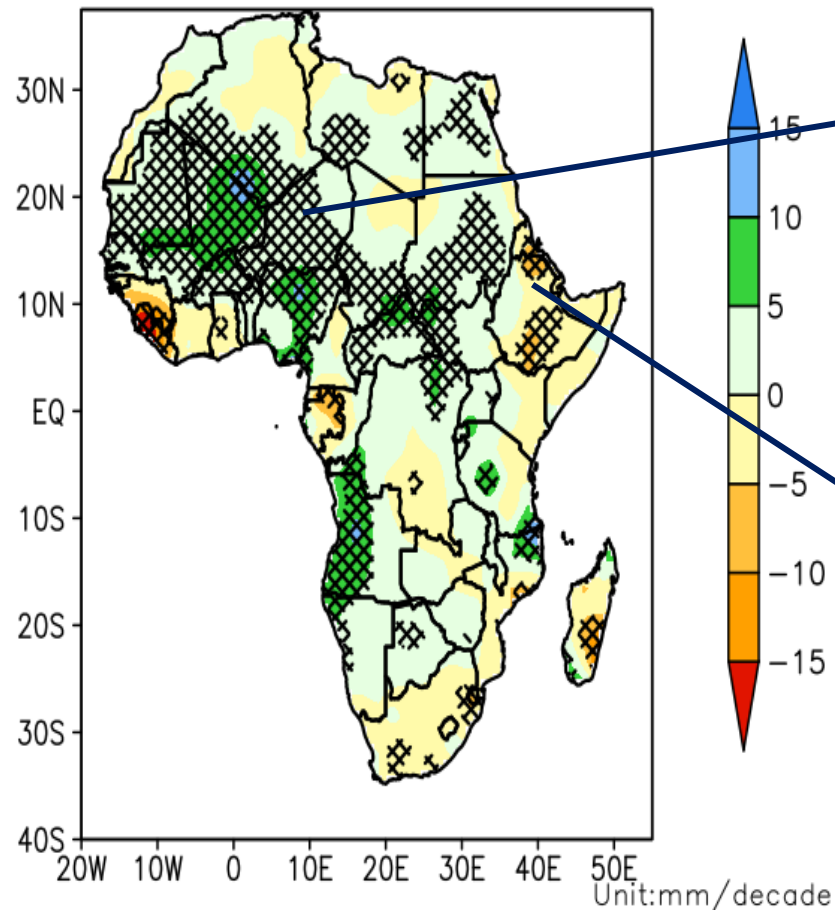




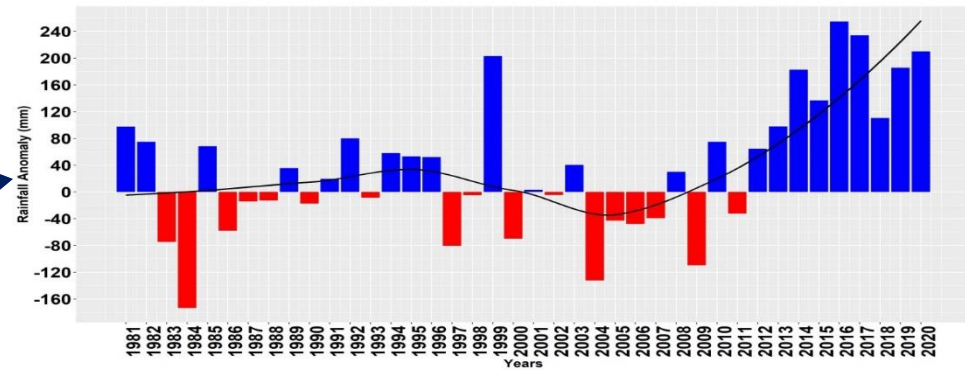


# Precipitation Anomalies over Areas with Significant multidecadal variability (1981-2020), No trends on the 40 years timeseries, Climate change is amplifying the variability and Extremes for precipitation?

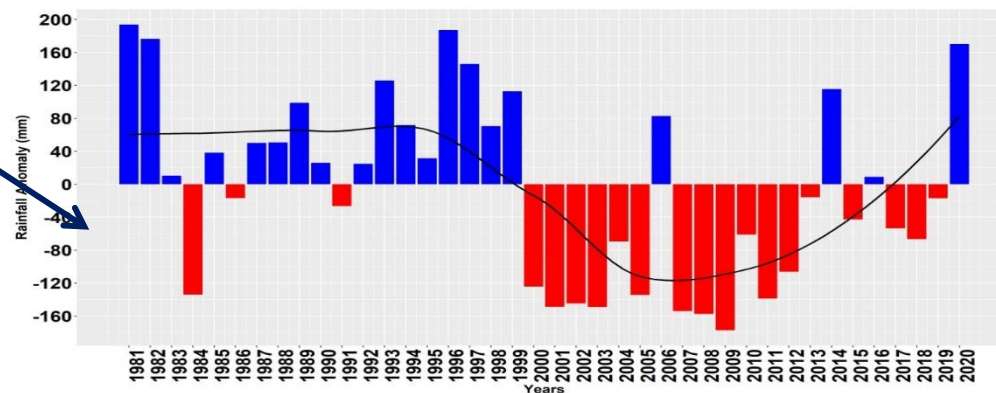
MEAN JAN TO DEC PRCP TREND(1981-2020)



Anomaly of January-December rainfall for (17°E-30°E;6°N-8°N)



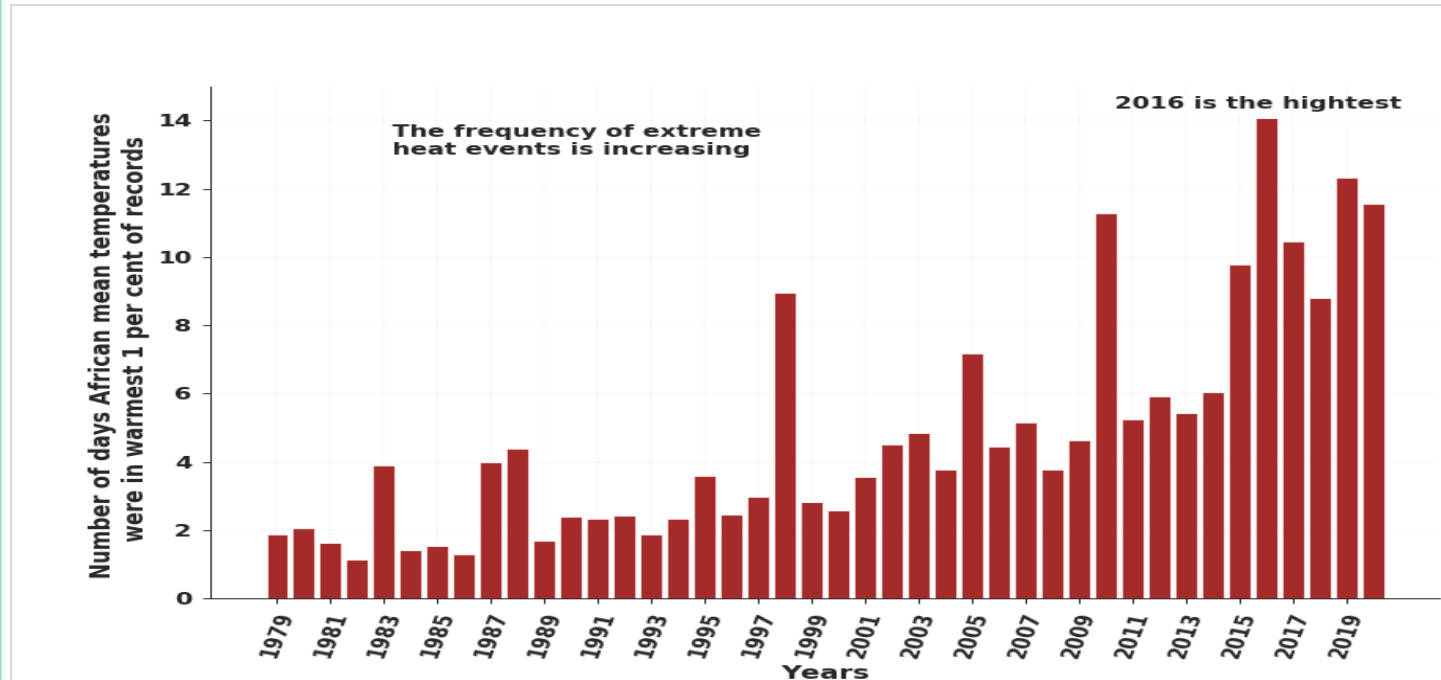
Anomaly of January-December rainfall for (37°E-45°E;3°N-16°N)



[xpert/expert/SOURCES/.NOAA/.NCEP/.CPC/.CAMS\\_OPI/.v0208/.mean/.prcp](http://xpert/expert/SOURCES/.NOAA/.NCEP/.CPC/.CAMS_OPI/.v0208/.mean/.prcp)

# Trend on extreme Temperatures in Africa.

*Extreme daily precipitation trend also significant (not shown)*

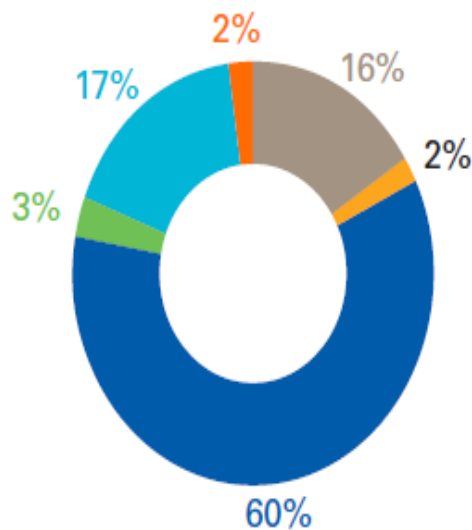


**Figure 7 :** Number of days each year where the African area-averaged daily mean temperature for each month is extreme. Extreme daily mean temperatures are the warmest 1 per cent of days for each month, calculated for the period from 1979 to December 2020

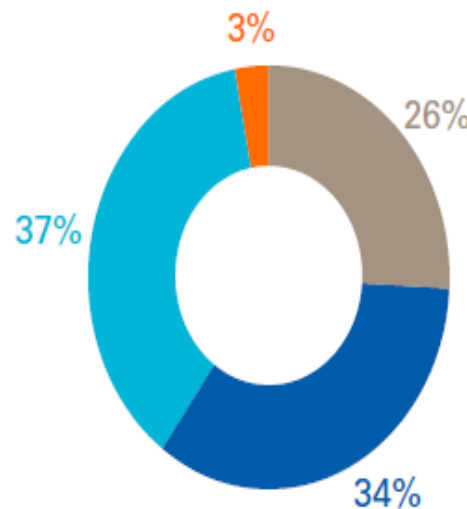
*Data source:* <https://cds.climate.copernicus.eu/cdsapp#!/search?type=dataset>

# Overview of disasters, economic losses, deaths reported in Africa (1970-2019) Source WMO No. 1267

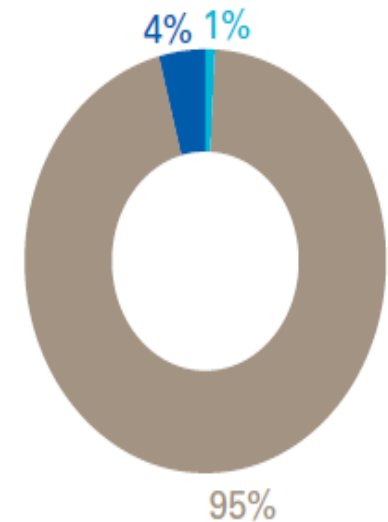
(a) Number of reported disasters  
total = 1 695 disasters



(b) Reported economic losses in US\$ billion  
total = US\$ 38.5 billion



(c) Number of reported deaths  
total = 731 747 deaths



Drought
  Extreme temperature
  Flood
  Landslide
  Storm
  Wildfire

**THANKS**