



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



An initiative of the Organisation of African, Caribbean and Pacific States funded by the European Union



<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

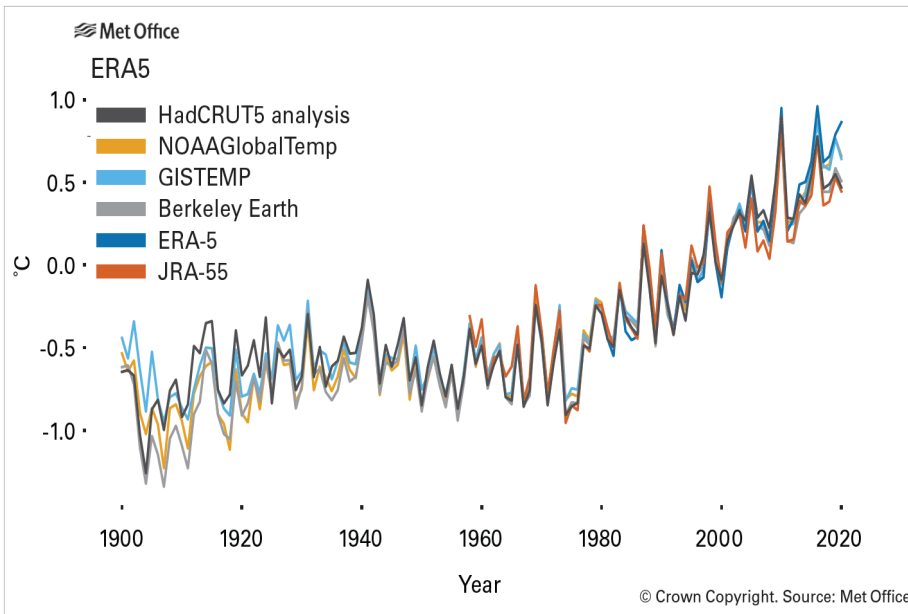
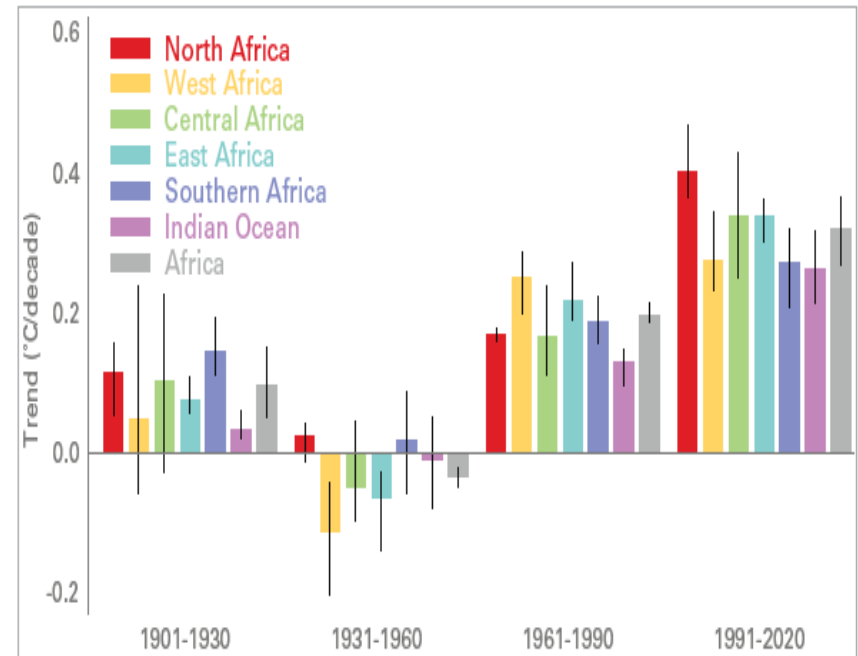
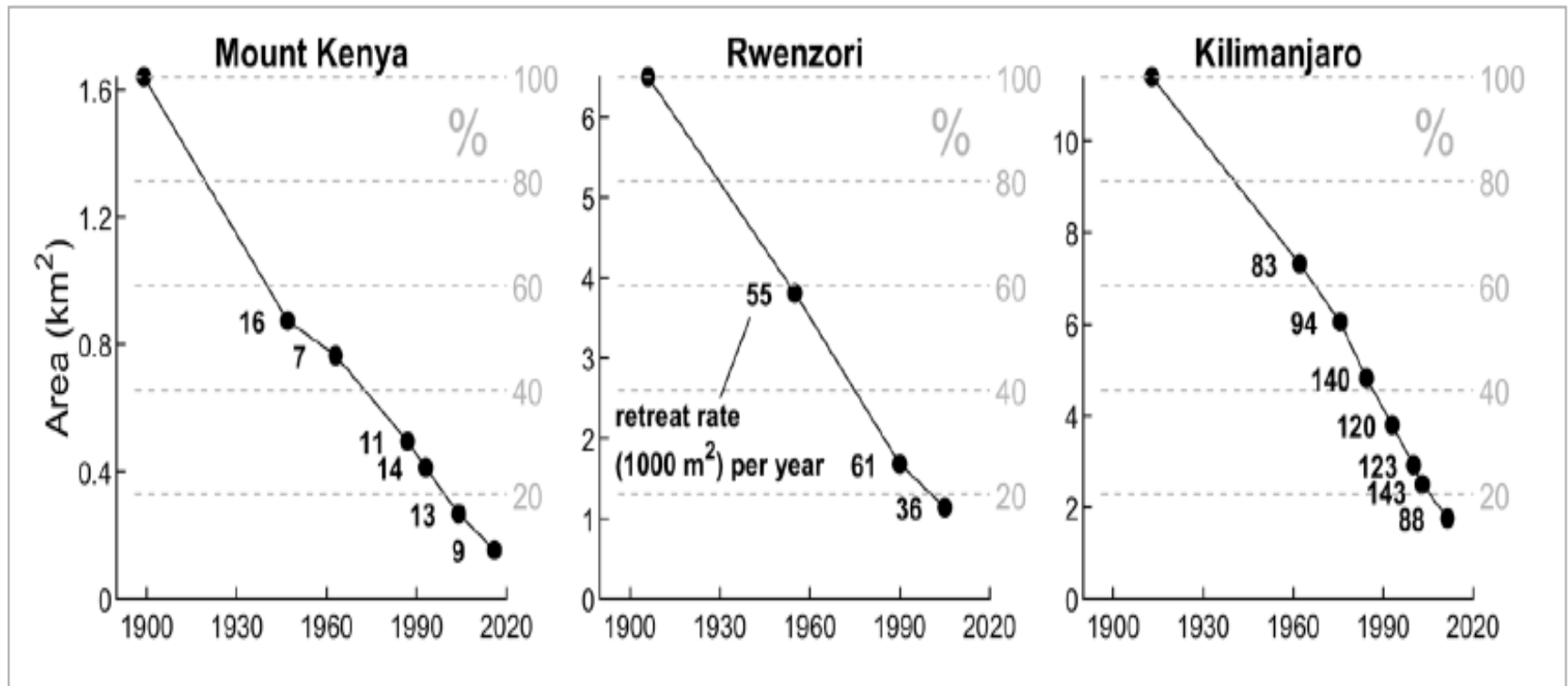


Figure 2. Area average land air temperature anomalies in °C relative to the 1981–2010 long-term average for Africa (WMO Regional Association I) based on six temperature data sets.

Source: Met Office, United Kingdom



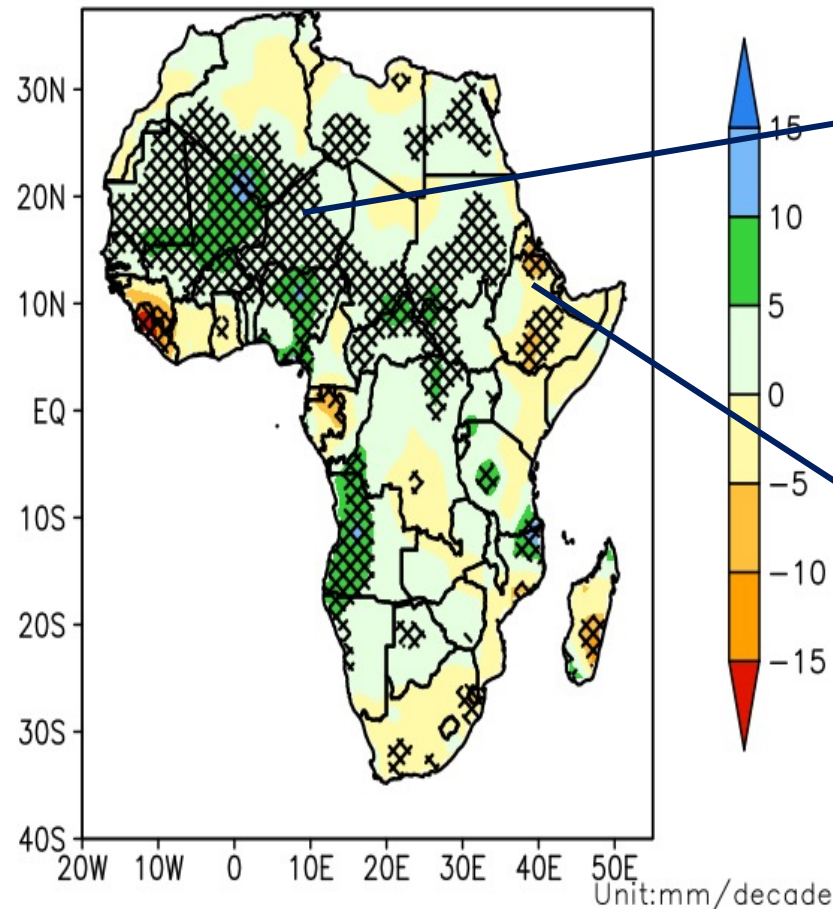
CHANGES OF THE GLACIER AREA ON AFRICAN MOUNTAINS, GIVEN THESE TRENDS THE MOUNTAINS WILL BE DEGLACIATED BY THE 2040s



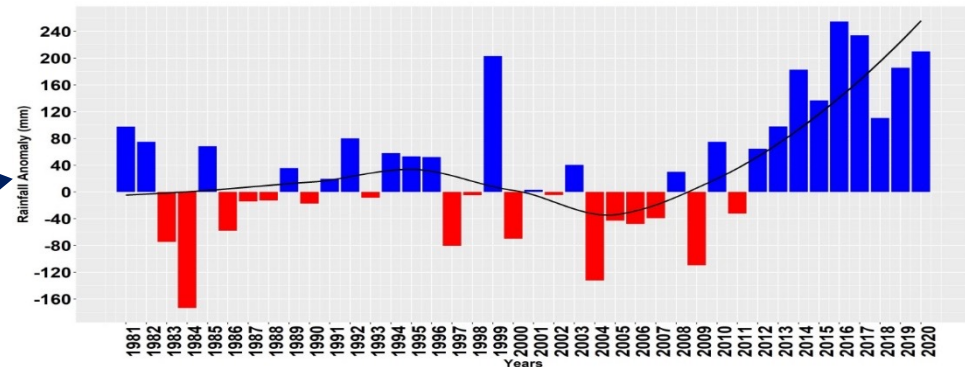


Precipitation Anomalies over Areas with Significant multidecadal variability (1981-2020), No trends on the 40 years timeseries, Climate change is amplifying the variability and Extremes for precipitation?

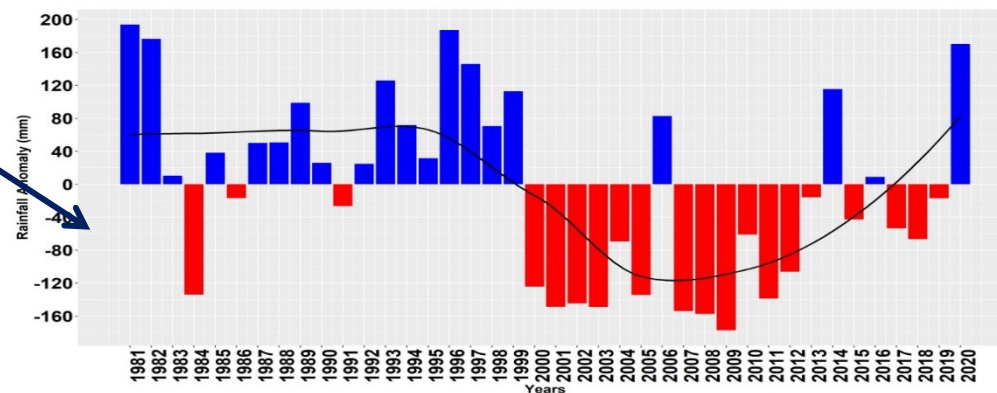
MEAN JAN TO DEC PRCP TREND(1981-2020)



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

Trend on extreme Temperatures in Africa.

Extreme daily precipitation trend also significant (not shown)

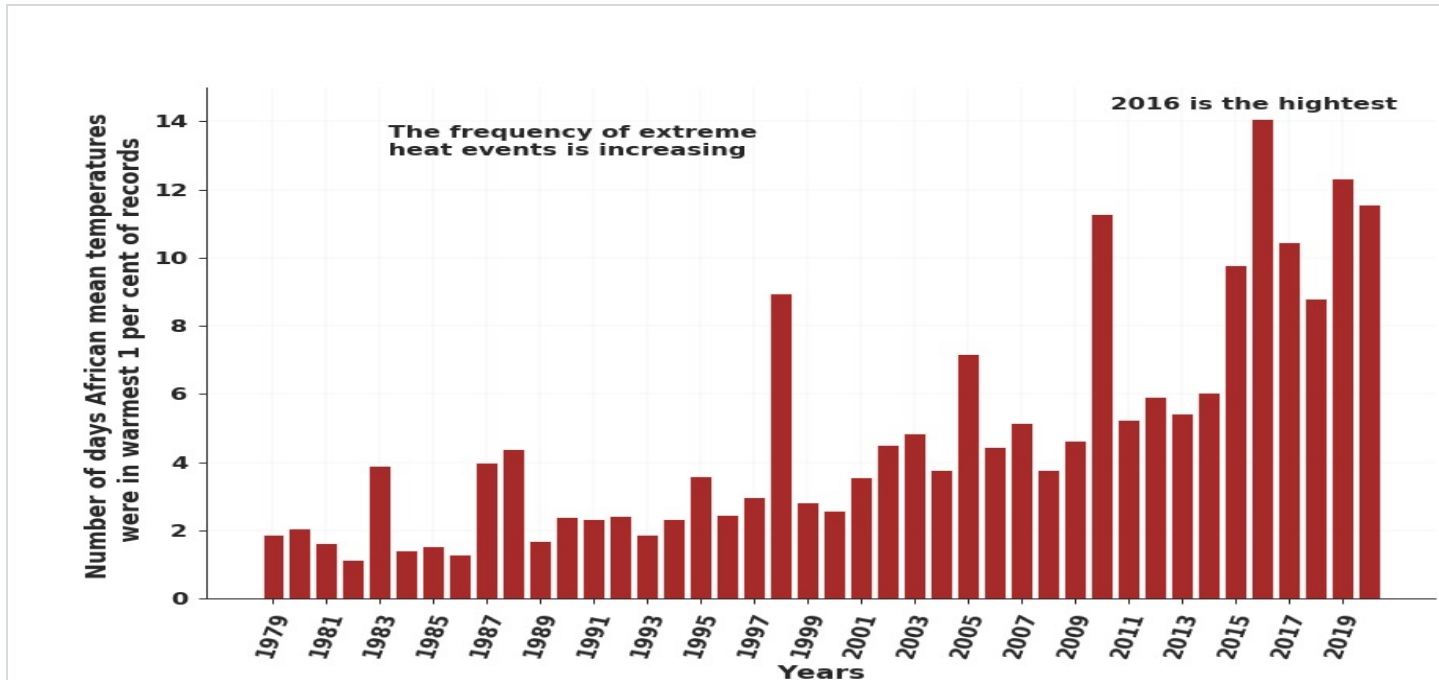
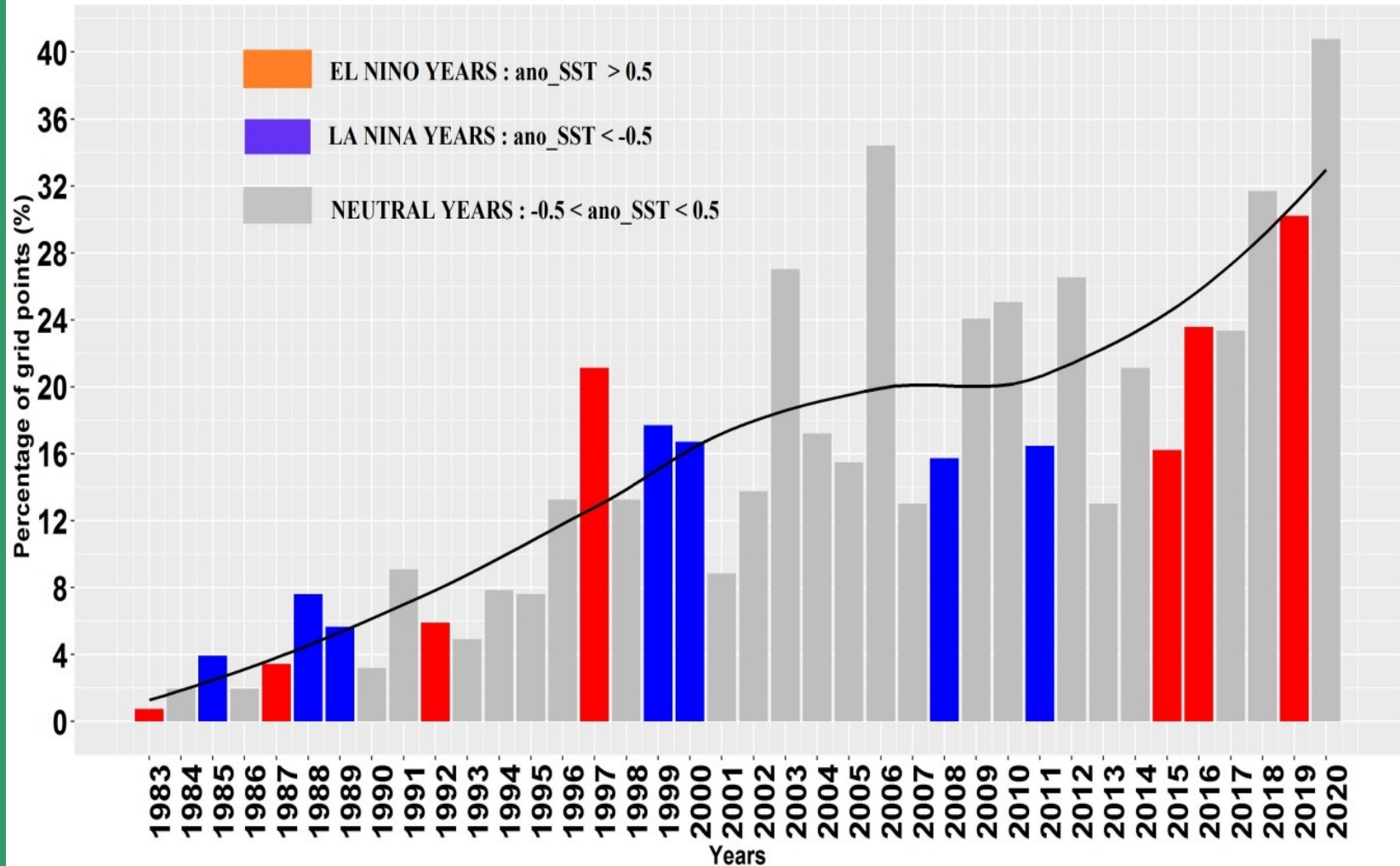


Figure 7 : Number of days each year where the African area-averaged daily mean temperature for each month is extreme. Extreme daily mean temperatures are the warmest 1 per cent of days for each month, calculated for the period from 1979 to December 2020

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

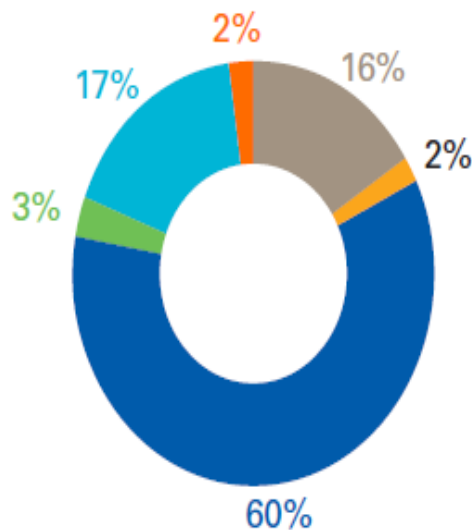
Percentage of grid points over African land masses with daily rainfall above the 90th percentile For the period 1981-2020, from January to December



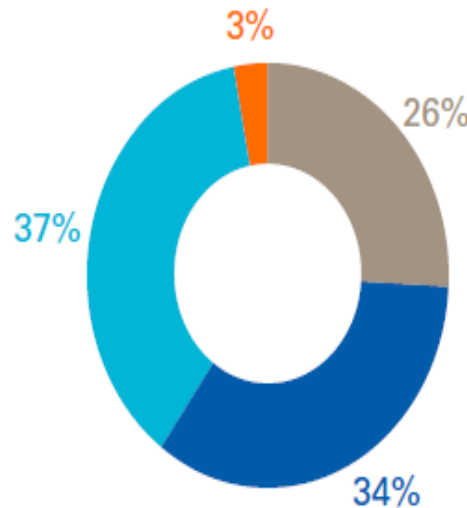
http://iridl.ldeo.columbia.edu/expert/expert/SOURCES/.NOAA/.NCEP/.CPC/.FEWS/.Africa/.DAILY/.ARC2/.daily/.est_prcp;

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

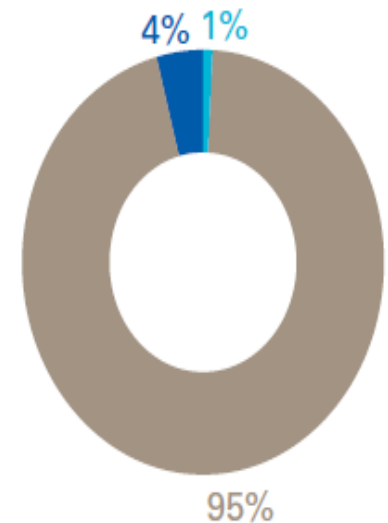
(a) Number of reported disasters
total = 1 695 disasters



(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