



## QUALITY CONTROLLED & CLEANED UP DATA SETS FOR DETECTION AND ATTRIBUTION

The graphs below were generated in response of people out cry on excessive heat in the March of 2016. This heat and temperature rises were felt almost all over the GHA as reflected in the March monthly bulletin, where in many places the temperature departures were beyond 2°C as can be seen in the map

In places like Wajir departures of 2.6°C, Bukoba 3.6°C, Nairobi 2.0°C were the highest since 1960. There was an assumption by the public that the high temperatures were due to over head sun (equinoxes) in March but this was disputed as equinoxes have always occurred without raising temperatures to these levels. However as it can be seen in graphs, Fig: 1h and Fig:1f, the seasonal rains delayed up to almost April resulting in very low cloudiness to scatter the incoming radiation. This led to direct insolation leading to high temperature discomfort.

Maximum Temperature quality controlled data series of 29 stations for the IGAD region with good station data coverage from 1961-1915 series have been generated and adopted. This led to the detection of 2016 March highest temperature anomalies since 1961 ranging from 1.9°-3.6°C in different areas.

So far, cleaned up 218 stations of monthly rainfall series from 1961-2015, then another 380 stations from EAC countries for a period of 1981-2013 was cleaned and adopted for GeoClim.

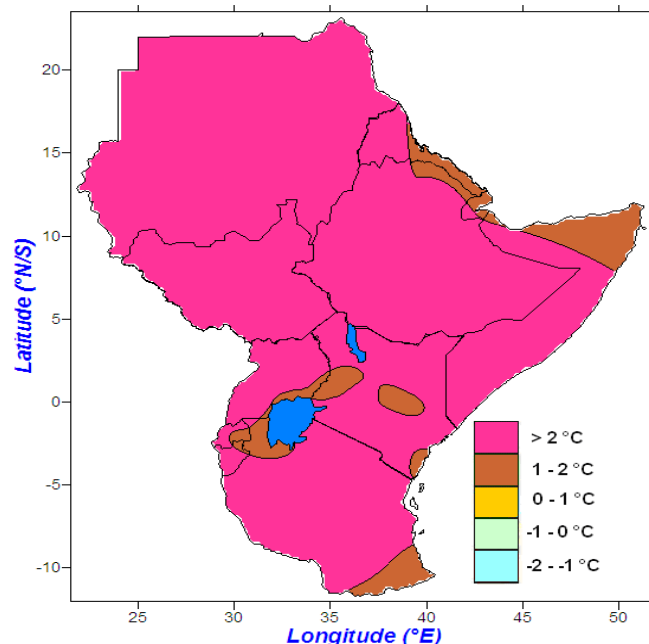
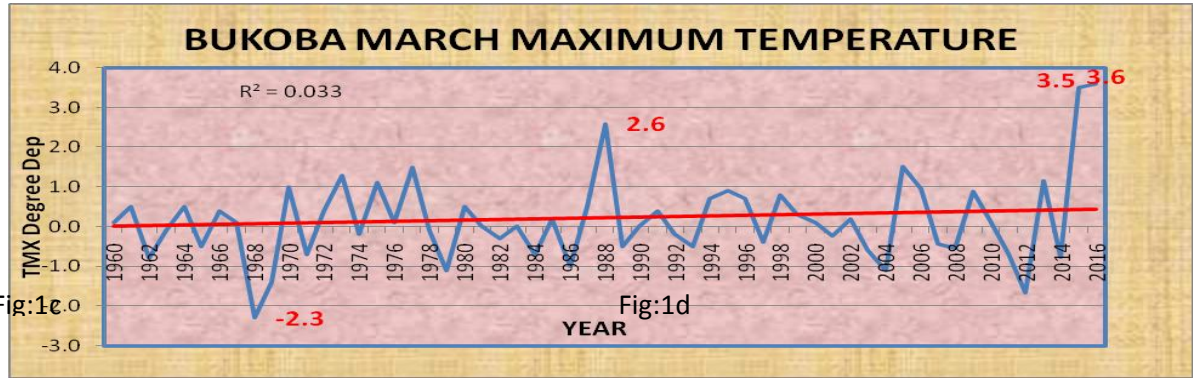
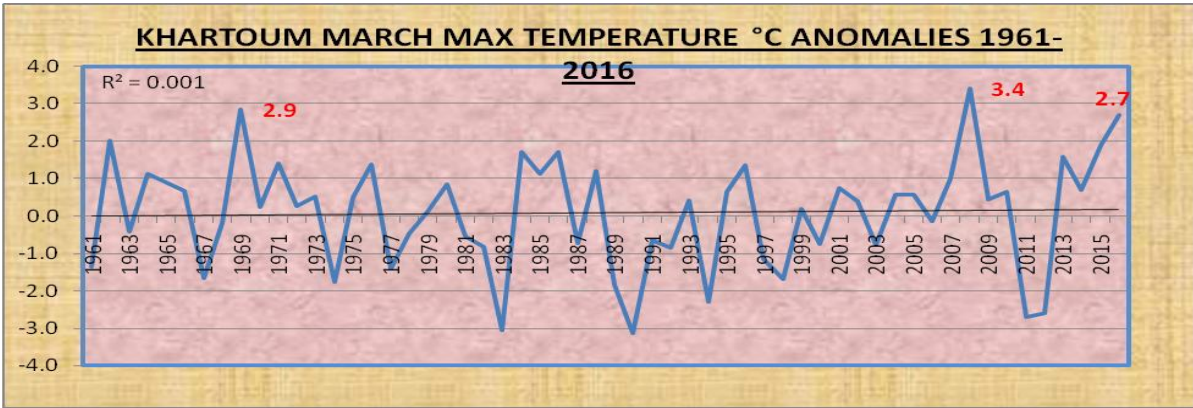


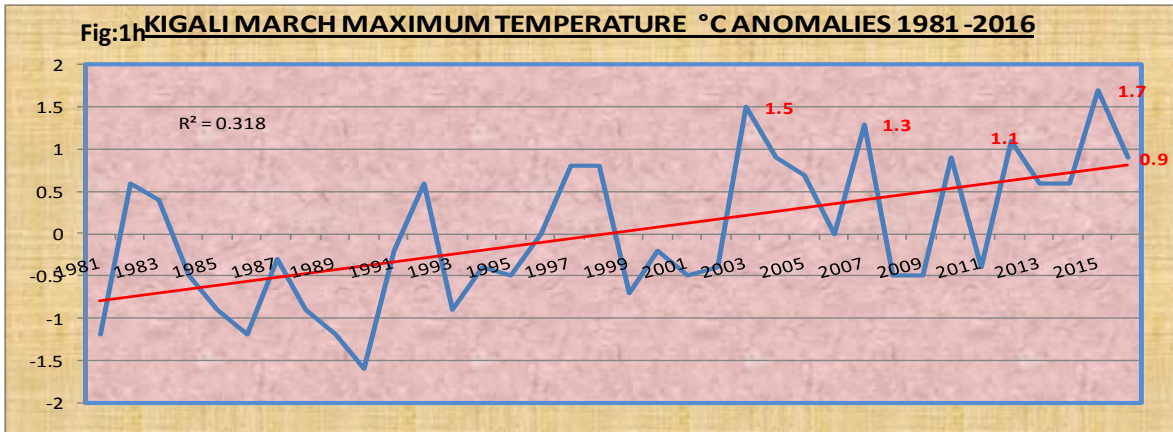
Fig:1



**Fig:2a**



**Fig:2b**



**Fig:2c**

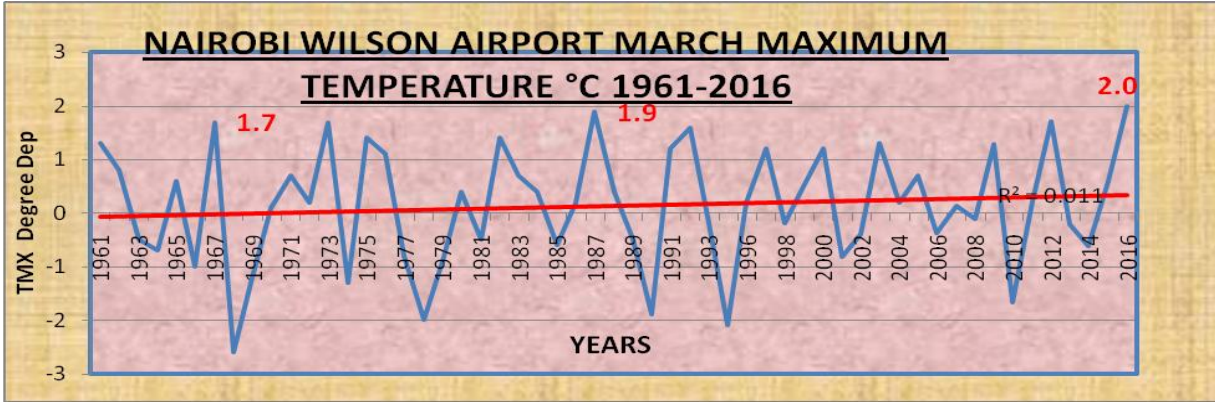


Fig:2d

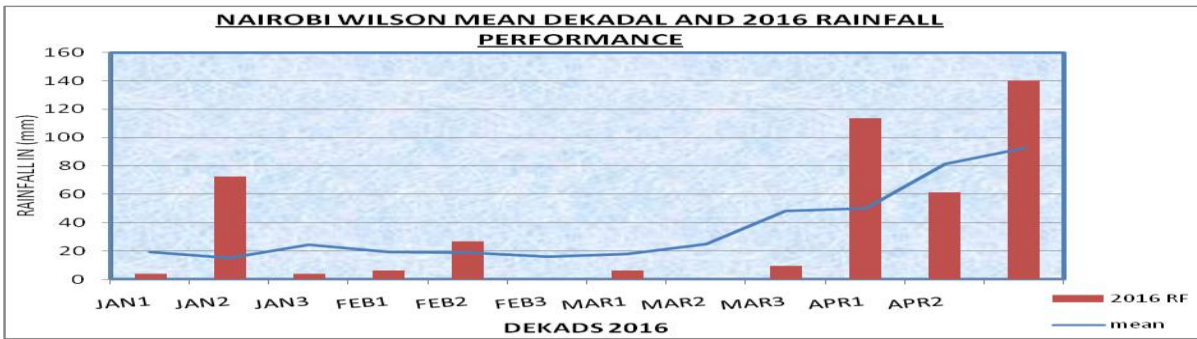


Fig:2g

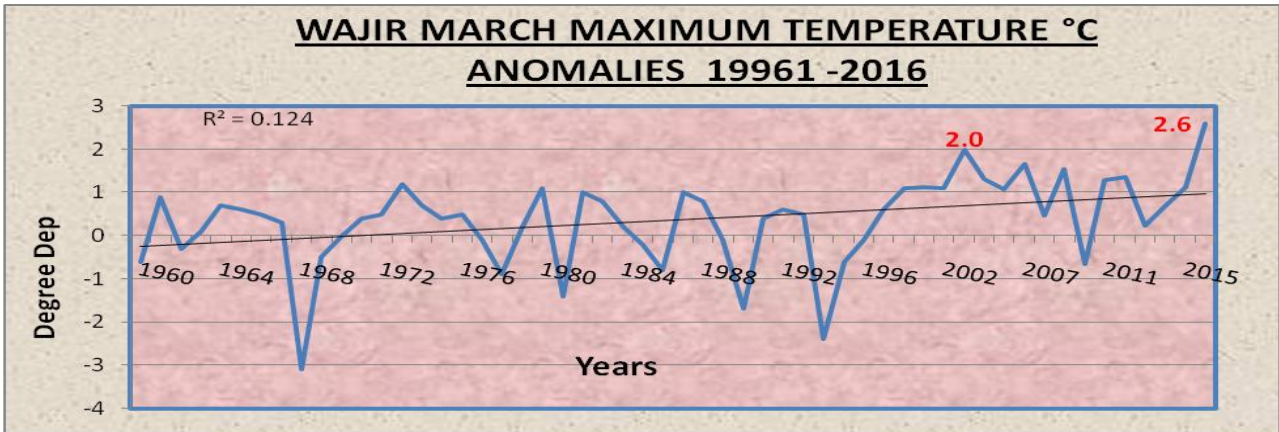


Fig:2h

**WAJIR MEAN DEK AND 2016 RAINFALL**

