

**SEVEN DAY WEATHER REVIEW FOR  
18<sup>TH</sup>-24<sup>TH</sup> NOVEMBER 2010 AND  
THE FORECAST VALID 26<sup>TH</sup>  
NOVEMBER -2<sup>ND</sup> DECEMBER 2010**

**1. WEATHER HIGHLIGHTS**

**Review of weather for the last seven-day period (18<sup>th</sup>-24<sup>th</sup> Nov 2010):**

- During the review period (18<sup>th</sup>-24<sup>th</sup> Nov 2010):
  - A drastic reduction in rainfall was experienced over most parts of the country.
  - A slight enhancement in rainfall was realized over the northeastern parts during the latter part of the week.
  - Daytime (maximum) temperatures generally increased while night-time (minimum) temperatures decreased over most places.

**Forecast for the next seven days (26<sup>th</sup> Nov-2<sup>nd</sup> Dec 2010) indicates:**

A general slight pick up of rainfall activities over most parts of the country save for the northwestern areas.

**2. WEATHER SUMMARY FOR THE PERIOD 18<sup>TH</sup>-24<sup>TH</sup> NOV, 2010**

**a. Rainfall review**

There was a drastic reduction in rainfall activities over much of the country except over the northeast areas and central parts of the coastal strip where a slight improvement in both spatial and temporal coverage of wet weather activities was realized during the second half of the review period (18<sup>th</sup> - 24<sup>th</sup> November 2010). Some parts of the central highlands also picked up at the end of the review period but the week was generally dry in comparison to the previous seven day period. None of the Meteorological Stations countrywide recorded seven-day total rainfall amounts above 20mm.

The highest four day total rainfall was only 17.8mm which was recorded at Mombasa Meteorological station most of which fell on the 18<sup>th</sup> of November. The other Meteorological stations that recorded rainfall in excess of 10mm were Nyeri (17.3mm), Kisii (15.3mm), Suba (14mm), Mtwapa

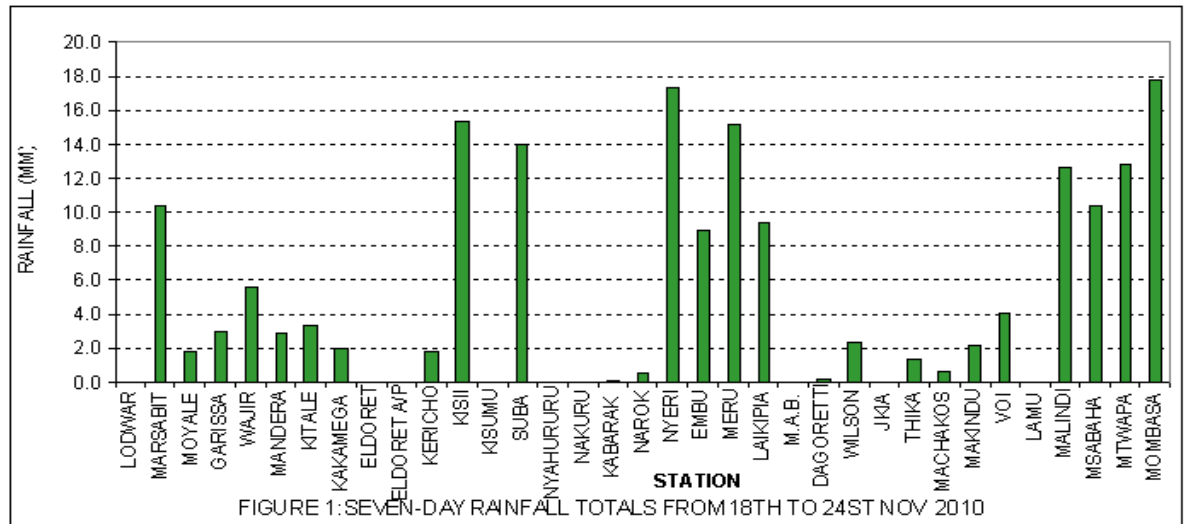


FIGURE 1: SEVEN-DAY RAINFALL TOTALS FROM 18TH TO 24ST NOV 2010

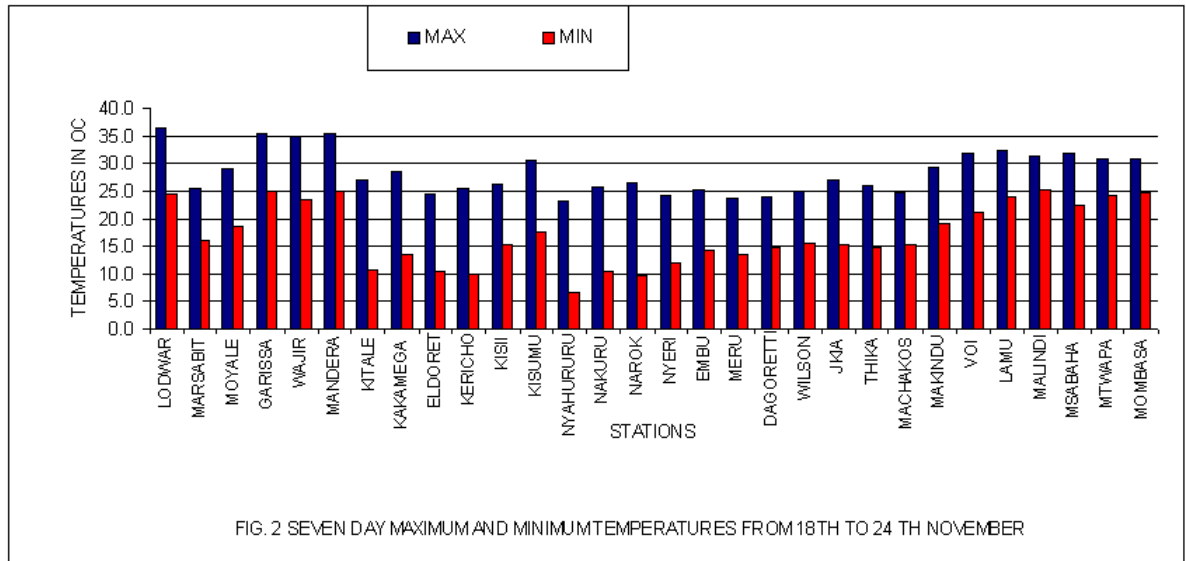


FIG. 2 SEVEN DAY MAXIMUM AND MINIMUM TEMPERATURES FROM 18TH TO 24 TH NOVEMBER

(12.9mm), Meru (12.7mm) and Msabaha and Marsabit both of which recorded 10.4mm. Other meteorological stations recorded less than 10mm or no rainfall at all as shown in *figure 1* above.

**b. Temperature**

During the review period (18<sup>th</sup> -24<sup>th</sup> Nov 2010), daytime (maximum) temperatures generally increased over most parts except over the coastal strip. Night-time (minimum)

temperatures decreased over much of country except over Nairobi area, parts of the southeastern lowlands and parts of the coastal strip. Over the central rift valley and parts of the central highlands the night-time temperature continued to drop as the review period progressed culminating in highly anomalous values on the 24<sup>th</sup> when Nyahururu Meteorological Station reported an all time season low of 2.9<sup>o</sup>C. Minimum temperatures over the same station were low than 7<sup>o</sup>C on

five of the seven day period. Consequently the average minimum temperature fell to 6.6 °C from 8.3°C during the previous review period. Lodwar Meteorological Station recorded the highest maximum temperature of 37.0°C on both 20<sup>th</sup> and 21<sup>st</sup> of November 2010 and the highest seven day average temperature of 36.4°C up from 36.1°C during the previous seven day review period. The average diurnal temperature range for most stations was high as reflected in *fig 2* below.

### 3. EXPECTED SYNOPTIC DEVELOPMENTS FROM 26<sup>TH</sup> NOV-2<sup>ND</sup> DEC 2010

**It is expected that pressures will be;**

- i. Moderately strong, though displaced to the south, over the Southern Atlantic Ocean (St. Helena) at the beginning strengthening slightly as the centre of the high pressure cell shifts northwards with time;
- ii. Moderate, but also displaced to the south, over Southwest Indian Ocean (Mascarene) throughout the forecast period;
- iii. Weak over the Azores and Mediterranean regions throughout the forecast period;
- iv. Moderate over the Mozambique Channel weakening as time progresses then strengthening slightly at the end;
- v. Moderately strong and maritime over the Arabian region for much of the forecast period weakening slightly at the end.

The low and mid level wind regimes are still expected to remain easterly at the beginning changing to northeasterly toward the end of the forecast period while the upper level flow is expected change from easterly to westerly with time. The above synoptic developments indicate:

A pick up of rainfall activities over the northeastern during the first half of the forecast period reducing during the second half.

A pick up of wet weather activities over the central and the southeastern areas during the second half of the week as the ITCZ shifts southwards with time.

### FORECAST FOR THE NEXT SEVEN DAYS FROM 26<sup>TH</sup> NOV-2<sup>ND</sup> DEC 2010

**The Lake Victoria Basin, Highlands west of the Rift Valley Central and south Rift Valley (Kitale, Kakamega, Kisumu, Kisii, Kericho, Eldoret Nakuru, Narok, Nvuhururu etc)** will experience sunny intervals in the morning giving way to afternoon/night showers and thunderstorms over few places increasing to several places in the second half of the forecast period.

**The Northwestern districts ( Lokitaung, Lokichoggio, etc),** will experience mainly sunny intervals throughout the forecast period. Occasional light afternoon showers are expected on the Kenya-Sudan border in the middle of the forecast period.

**The Central highlands including Nairobi area (Nyeri, Meru, Dagoretti, Embu, etc)** will experience morning rains and afternoon/night showers over few places at the beginning. Afternoon/night showers are likely to increase to several places during the second half of the forecast period.

**The Northeastern districts (Marsabit, Moyale, Mandera, Wajir, Garissa etc),** will experience morning rains and afternoon/night showers over several places at the beginning decreasing to mainly sunny intervals and showers over few places mainly near Garissa during the second half of the forecast period.

**Southeastern lowlands (Voi, Makindu, Machakos etc),** will experience morning rains and afternoon/night showers over few places at the beginning increasing to several places in the last two days of the forecast period.

**The Coastal strip (Mombasa, Kilifi, Malindi, Lamu etc)** will experience morning rains over few places occasionally increasing to several places. Occasional afternoon showers are also likely especially over the north coast near Lamu.

**N.B: This forecast should be used in conjunction with the daily (24-hour) forecast issued by this Department.**

#### KEY OF SCIENTIFIC WORDS USED

**High Pressure System (Anticyclone):** An area associated with clear skies or fine weather.

**Ridge:** An elongated area of high pressure from which winds flow outward.

**Most Places:** Between 66% and 100%.

**Several Places:** Between 33% and 66%

**Few Places:** Between 0 and 33%

Kenya Meteorological Department (KMD)

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## Seven-day Forecast for 26<sup>th</sup> November to 2<sup>nd</sup> December 2010



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Of

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