

**FOUR DAY WEATHER REVIEW FOR  
11<sup>TH</sup>-14<sup>TH</sup> NOV, 2010 AND THE  
FORECAST VALID 16<sup>TH</sup> -19<sup>TH</sup> NOV, 2010**

**1. WEATHER HIGHLIGHTS**

Review for the last four-day period (11<sup>th</sup>-14<sup>th</sup> Nov 2010):

- During the review period (11<sup>th</sup>-14<sup>th</sup> Nov 2010):
  - A slight reduction in rainfall was experienced over parts of the western highlands;
  - A slight enhancement in rainfall was realized in some parts of the northeastern areas; and
  - Both daytime (maximum) and night-time (minimum temperatures) decreased over most places.

Forecast for the next four days (16<sup>th</sup> -19<sup>th</sup> Nov 2010) indicates:

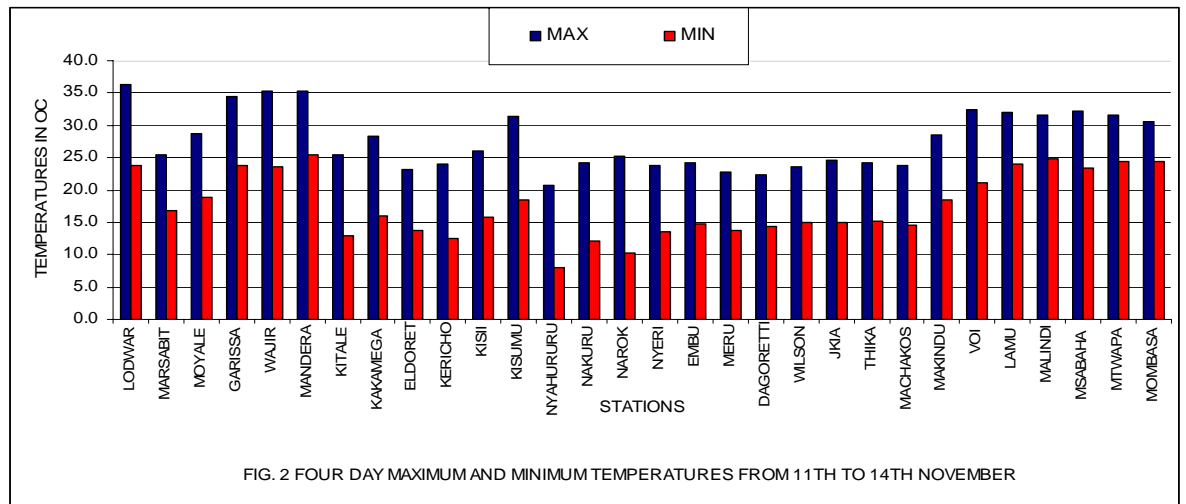
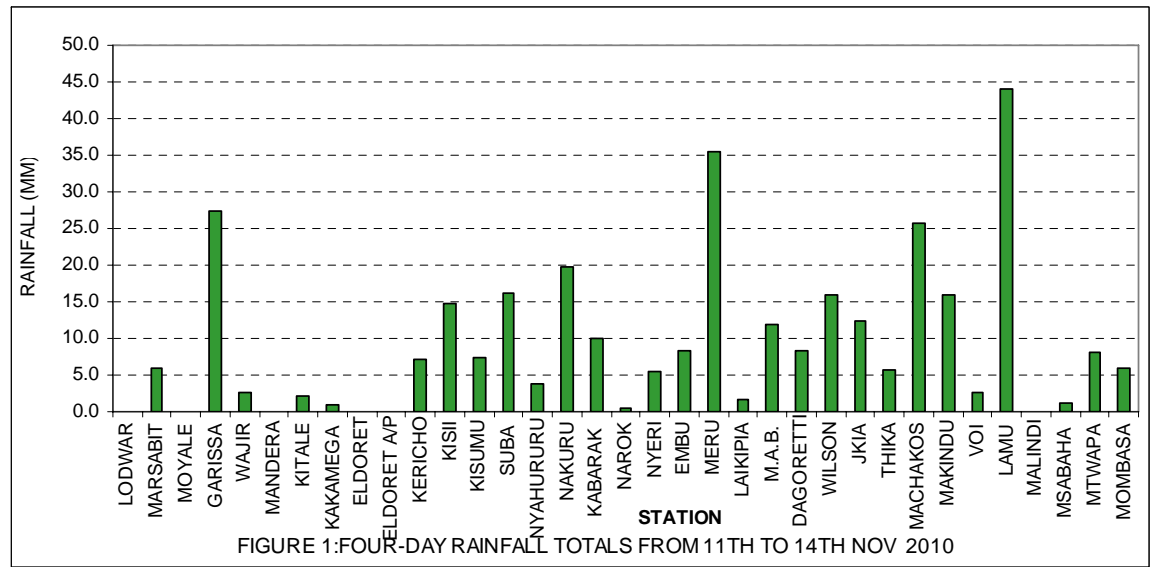
- The wet weather activities are expected to gradually reduce over much of the country during the forecast period.

**2. WEATHER SUMMARY FOR THE PERIOD 11<sup>TH</sup>-14<sup>TH</sup> NOV, 2010**

**a. Rainfall review**

Moderate rainfall activities were recorded over most parts of the country during the review period, (11<sup>th</sup> – 14<sup>th</sup> November 2010). A slight decrease in the rainfall intensities occurred over the central highlands, parts of the western highlands and the south coast. On the other hand, parts of the northeastern areas (around Garissa and Marsabit), the north coast and Nairobi area experienced an increase over the same period.

The heaviest 24-hour rainfall was recorded over the southeastern region by Wundanyi Chief's camp (73.0mm), Taita ATC (68.0mm) and Shigharo (58.5mm) on the 11<sup>th</sup> of November 2010. Lamu and Garissa Meteorological stations also recorded heavy 24-hour rainfall amounts of 35.5mm and 21.1mm on 13<sup>th</sup> of November.



The highest four day total rainfall amount of 44mm was recorded at Lamu Meteorological Station followed Meru (35.4mm), Garissa 27.3mm, Machakos (25.7mm), Nakuru (19.8mm), Suba (16.1mm) and Wilson and Makindu each (16.0mm). Other stations recorded less than 15mm or no rainfall at all as shown in figure 1 above.

**b. Temperature**

During the review period (11<sup>th</sup> -14<sup>th</sup> Nov 2010), daytime (maximum) temperatures generally decreased over most parts except over parts of the northeastern areas, the southeastern lowlands and the coastal regions. Night-time (minimum) temperatures also decreased over most areas compared to the previous four-day period. Nyahururu Meteorological Station recorded the lowest minimum temperature of 6.2°C on 13<sup>th</sup> of November while Lodwar Meteorological Station recorded the highest maximum

temperature of 36.5°C on 12<sup>th</sup> of November 2010. The same stations recorded the lowest seven-day average minimum and the highest seven-day average maximum temperatures of 8.1°C and 35.2°C respectively (*Figure 2*) compared to 8.0°C and 36.8°C recorded in the previous four day review period.

### 3. EXPECTED SYNOPTIC DEVELOPMENTS FROM 16<sup>TH</sup> -19<sup>TH</sup> NOV 2010

It is expected that pressures will be;

- i. Weak over the Southern Atlantic Ocean (St. Helena) strengthening slightly in the second half of the forecast period;
- ii. Moderately strong over the Azores region for much of the forecast period but weakening at the end;
- iii. Moderate over the Mediterranean region weakening at the end;
- iv. Weak over the Southern Atlantic Ocean (St. Helena) strengthening slightly in the second half of the forecast period;
- v. Moderately strong over the Mozambique Channel weakening with time then strengthening slightly again towards the end of the forecast period; and
- vi. Strong and maritime over the Arabian region at the beginning then changing to more continental towards the end.

The low and mid level wind regimes are expected to remain easterly while the upper level flow is expected to be westerly at the beginning, turning to northwesterly at the end of the forecast period. The above synoptic developments indicate:

- Maintenance of wet weather activities over the eastern half of the country at the beginning of the forecast period; and
- A reduction in rainfall activities over much of the country thereafter.

### FORECAST FOR THE NEXT FOUR DAYS FROM 16<sup>TH</sup> -19<sup>TH</sup> NOV 2010

The Lake Victoria Basin, Highlands west of the Rift Valley Central and south Rift Valley (Kitale, Kakamega, Kisumu, Kisii, Kericho, Eldoret, Nakuru, Narok, Nyahururu etc) will experience sunny intervals in the morning giving way to

afternoon/night showers and thunderstorms over few places occasionally increasing to several places.

The Northwestern districts ( Lokitaung, Lokichoggio, etc), will experience mainly sunny intervals for much of the forecast period with occasional afternoon showers over few places mainly bordering Sudan.

The Central highlands including Nairobi area (Nyeri, Meru, Dagoretti, Embu, etc) will experience cloudy early mornings with light rains over few places and afternoon/night showers over several places at the beginning reducing to few places and then mainly sunny intervals during the second half of the forecast period.

The Northeastern districts (Marsabit, Movale, Mandera, Wajir, Garissa etc), will experience morning rains and afternoon showers over few places mainly during the first half of the forecast period. Dry conditions will be predominant over much of the area in the second half of the forecast period.

Southeastern lowlands (Voi, Makindu, Machakos etc), will experience morning rains and afternoon showers over several places at the beginning reducing to few places and mainly sunny intervals during the second half of the forecast period.

The Coastal strip (Mombasa, Kilifi, Malindi, Lamu etc) will experience light morning showers over several places at the beginning reducing to few places. Dry conditions will be predominant in the second half of the forecast period.

**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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## Four-day Forecast for 16<sup>th</sup> to 19<sup>th</sup> November 2010



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Of

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