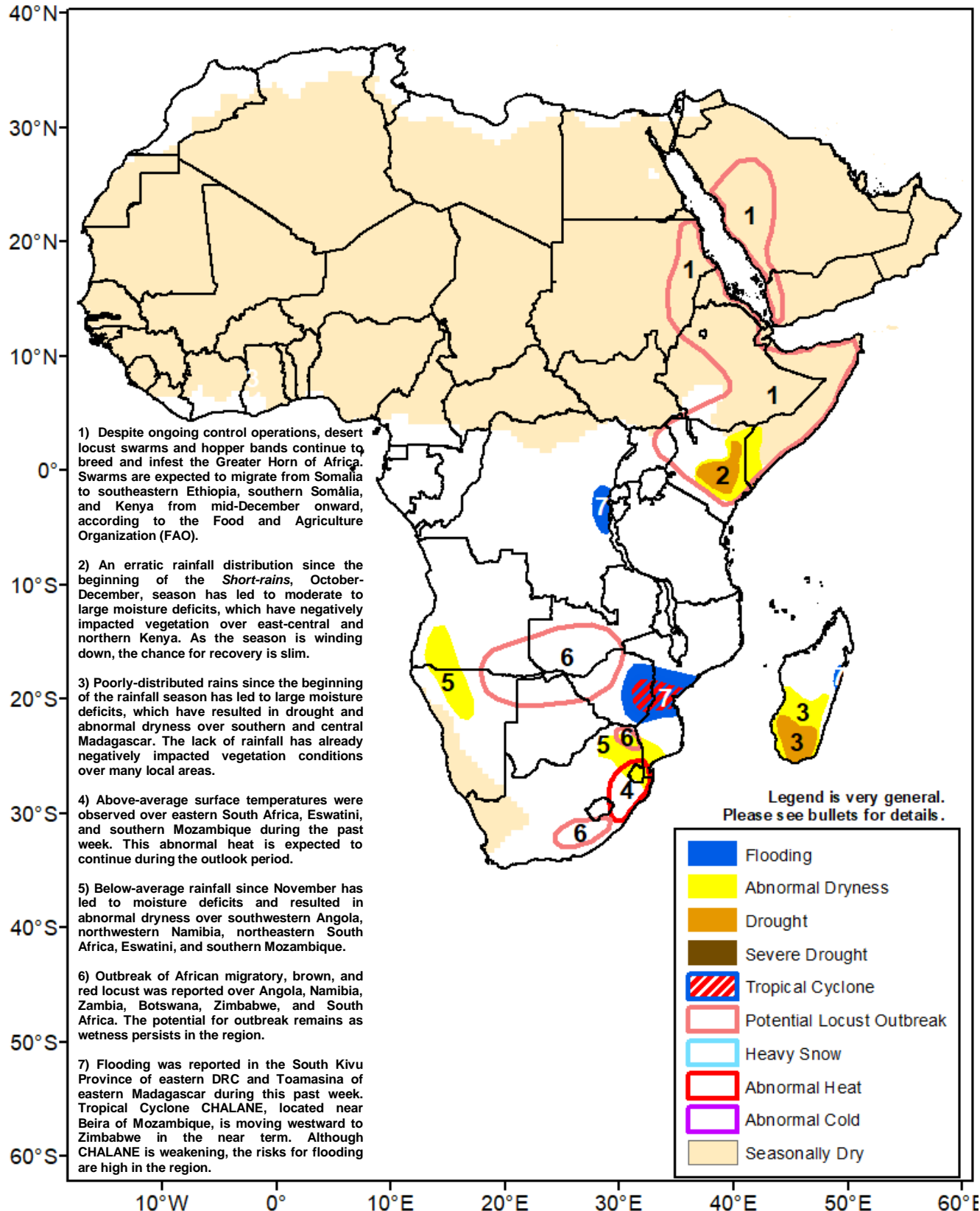




Climate Prediction Center's Africa Hazards Outlook December 31, 2020 – January 6, 2021

- Weakening Tropical Cyclone CHALANE is moving across central Mozambique to Zimbabwe in the near-term.



Desert locust swarms have already reached northern Kenya.

During the past week, a dry weather pattern continued over eastern Africa. While suppressed rainfall dominated the sub-region, localized light (<25 mm) rains fell over western Ethiopia, southwestern and eastern Kenya (**Figure 1**). Limited rains were also observed over northern Tanzania. This past week's rainfall totals were near to below-average over southern Kenya and northern Tanzania. Since late September, below-average rainfall was received over much of eastern Africa, with the largest deficits exceeding 100 mm in east-central Kenya and southern Somalia. This dryness has already damaged vegetation conditions and resulted in drought over the dry portions of Kenya. As the season is ending, the chance for recovery is close to nil.

On the desert locust outbreak, a recent update from the Food and Agriculture Organization (FAO) has indicated that immature swarms have already reached northern Kenya, including the Mandera, Marsabit, and Moyale region. Moreover, the recent passage of Tropical Cyclone GATI in northern Somalia has also led to favorable environments for further breeding. The locust swarms and groups are expected to migrate southwestward further, which threaten ongoing crops and the livelihood of many people over Kenya.

For next week, model rainfall forecasts suggest some increase in rainfall over eastern Africa. Moderate to locally heavy rains are possible in east-central Kenya and northern Tanzania, whereas little to light rains are expected over western and northern Kenya, southwestern Ethiopia, and southernmost Somalia.

A poorly-distributed rainfall since the beginning of the season has led to drought in southern Madagascar.

The cumulative rainfall since the beginning of October to present has remained well below-average over the western and eastern edges of southern Africa. Large (> 100 mm) seasonal rainfall deficits were observed in western Angola and portions of northwestern Namibia to the west and northeastern Mozambique and central and southern Madagascar to the east (**Figure 2**). While the onset to the season was delayed over these areas, drier-than-average pattern during November and December was the main culprit. Conversely, seasonal rainfall was well above-average across southern DRC, eastern Angola, Zambia, Botswana, and Zimbabwe. During this past week, Tropical Cyclone CHALANE made landfall in eastern Madagascar and triggered flooding in Toamasina, based on reports. CHALANE moved across the central highland and exited the Island onto the Channel of Mozambique. Moderate to heavy rains were recorded across eastern Zambia, northern Botswana, and central South Africa, while limited and reduced rains fell over Angola, central and northern Mozambique, and southern Madagascar.

Due to extended dry spells, recent remote sensing and vegetation products have already depicted degraded and well below-average conditions over many local areas of southern Madagascar. Thus, a drought polygon is posted over the region.

For next week, heavy rains are forecast across Namibia, Angola, Zambia, Malawi, northern Mozambique, southern Tanzania, central and eastern South Africa. Tropical Cyclone CHALANE, though weakening over central Mozambique, is expected to reach Zimbabwe in the near term, maintaining high risks for flooding in the region. In contrast, little rains are forecast in southern Madagascar.

Note: The hazards outlook map on page 1 is based on current weather/climate information and short and medium range weather forecasts (up to 1 week). It assesses their potential impact on crop and pasture conditions. Shaded polygons are added in areas where anomalous conditions have been observed. The boundaries of these polygons are only approximate at this continental scale. This product does not reflect long range seasonal climate forecasts or indicate current or projected food security conditions.

Questions or comments about this product may be directed to Wassila.Thiaw@noaa.gov or 1-301-683-3424.

7-Day Satellite Estimated Total Rainfall (mm) Valid: December 23 – December 29, 2020

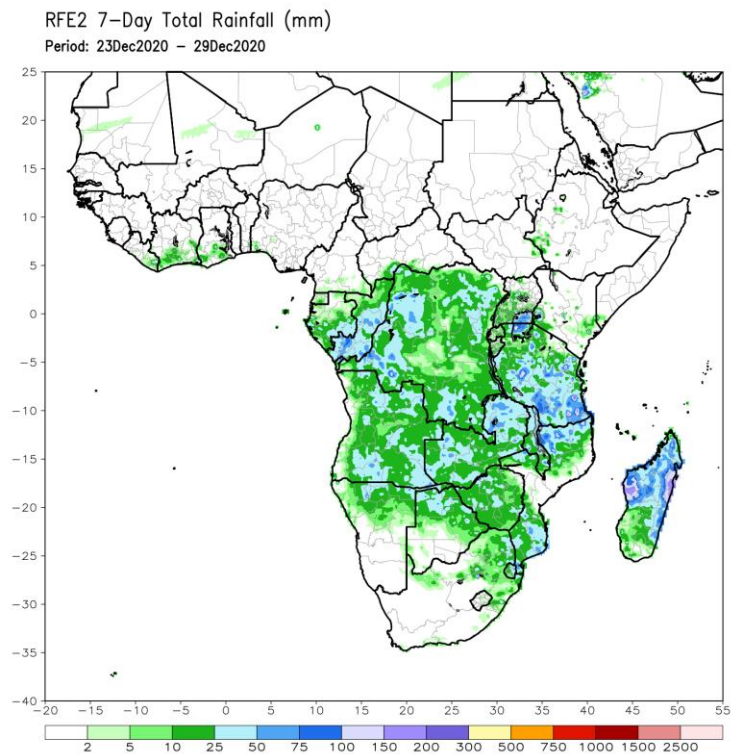


Figure 1: NOAA/CPC

3-Month Satellite Estimated Rainfall Anomaly (mm) Valid: October 01 – December 29, 2020

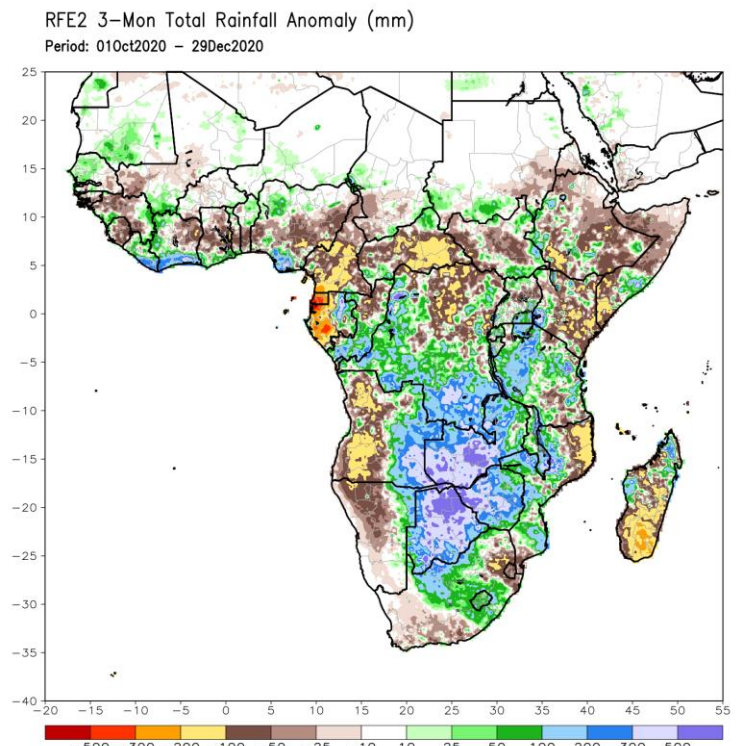


Figure 2: NOAA/CPC