

UPDATE: Flood Waters over the Affected District of Mutarara, Sofala & Tete Provinces, Mozambique

Flood Analysis with MODIS Terra & Aqua Data Recorded 2 February 2008 & 19 November 2007

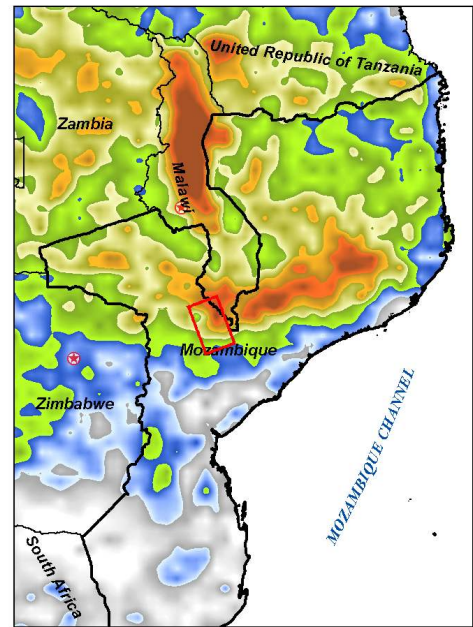
Heavy Rainfall & Flooding 5 February 2008



Version 1.0

Glide No: FL-2008-000004-MOZ

Rainfall Total (1 Jan. 2008 - 31 Jan. 2008)



Map Information

This map illustrates satellite-detected flood waters over the affected districts in central Mozambique. Flooded areas have been sorted into 2 classes: Red areas represent standing flood waters identified with a high degree of confidence. Yellow areas represent flood-affected areas, possibly covered with standing water, identified with a lower degree of confidence. Flood analysis was made using MODIS Terra & Aqua data recorded 2 February 2008. Additional pre-flood MODIS imagery from November 2007 (represented in blue) was used in this analysis. The rainfall estimate was derived from the Tropical Rainfall Monitoring Mission (TRMM) precipitation dataset at a spatial resolution of approximately 25km for this region. It is possible that precipitation levels may have been underestimated for local areas, and is not a substitute for ground station measurements. This flood detection is a preliminary analysis & has not yet been validated in the field.

The depiction and use of boundaries, geographic names and related data shown here are not warranted to be error-free nor do they imply official endorsement or acceptance by the United Nations. This map was produced by the United Nations Institute for Training and Research (UNITAR) Operational Satellite Applications Program (UNOSAT). UNOSAT provides satellite imagery and related geographic information to UN humanitarian and development agencies and their implementing partners.

Map Legend

	Capital	
	City or Town	
	Town / Village	
	Port Facility	
	Airport	
	International Border	
	Province Boundary	
	District Boundary	
	Road	
	Railroad	
	Drainage Line	
	Pre-Flood Waters (19 Nov. 2007)	
	Standing Flood Waters (2 Feb. 2008)	
	Probable Flood Waters / Flood-Affected Area (2 Feb. 2008)	

Map Scale for A3: 1:400,000
 1 centimeter equals 4 kilometers
 Map frame rotated 20 degrees from North

Kilometers: 0 2.5 5 10 15 20
 Miles: 0 1.25 2.5 5 7.5 10 12.5

Satellite Data MODIS Terra & Aqua (NASA)
 Resolution 500m/250m
 Date Series 19 Nov. 2007 & 2 Feb. 2008
 Flood Analysis UNOSAT
 Rainfall Data TRMM (NASA)
 Resolution 0.25 deg
 Date Series 1 Jan. 2008 - 31 January 2008
 Hydrology Data HydroSheds (USGS)
 Other GIS Data NGA, USGS, WHO, UNJLCC
 Map Production UNOSAT (5 February 2008)
 Projection UTM, Zone 36 South
 Datum WGS 1984

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