

Flood Waters over the Affected Districts of Namacurra & Maganja da Costa, Zambezia Province, Mozambique

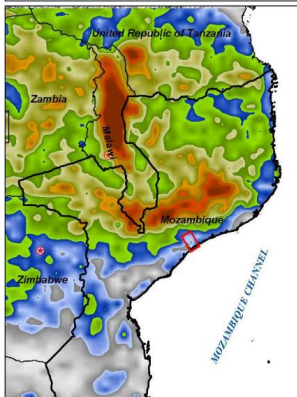
Heavy Rainfall 5 February 2008 & Flooding



Version 1.1

Glide No: FL-2008-00004-MOZ

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



Map Information

This map illustrates satellite-detected flood waters over the affected districts of Namacurra & Maganja da Costa, Zambezia Province, Mozambique. Flooded areas have been sorted into 3 classes: Bright red and dark red areas represent standing flood waters identified on 16 Jan. and 2 February 2008, respectively. Blue areas represent pre-flood water levels (mostly wetlands) identified from 3 December 2007. Estimates for flooded areas per district have been calculated in km². Flood analysis was made using MODIS Terra & Aqua data recorded 16 Jan. and 2 Feb. 2008. This flood detection is a preliminary analysis & has not yet been validated in the field. 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. 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

<ul style="list-style-type: none"> Capital Town (over 2,000 Pop) Village Port Facility Airport Bridge Spot Height (m) District Boundary Road Elevation Contour (20m Intervals) Railroad Drainage Line 	<p>TRMM Estimated Rainfall (mm) from 1 January to 31 January 2008</p> <ul style="list-style-type: none"> 600+ mm 500 400 300 200 100 0.0 mm
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MODIS Flood Water Classification

- Estimated Standing Flood Waters (2 February 2008)
- Estimated Standing Flood Waters (16 January 2008)
- Pre-Flood Waters / Wetlands (3 Dec. 2007)

Map Scale for A3: 1:220,000
1 centimeter equals 2.2 kilometers
Map Frame Rotated 30 degrees from North

Satellite Data MODIS Terra & Aqua (NASA)
Resolution 500m/250m
Date Series 3 Dec. 07, 16 Jan. & 2 Feb. 08
Flood Analysis UNOSAT
Rainfall Data TRMM (NASA)
Resolution 0.25 deg
Date Series 1 Jan. 2008 - 31 January 2008
Hydrology Data HydroSheds (USGS)
Roads & Bridges Identified in Google Earth
Other GIS Data NGA, USGS, WHO, UNJLC
Map Production UNOSAT (5 February 2008)
Projection UTM, Zone: 38 South
Datum WGS 1984

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