UPDATE 1: FLOOD WATERS OVER THE AFFECTED SOUTHERN & LUSAKA PROVINCES - ZAMBIA

Flood Analysis with MODIS Terra & Aqua Data Recorded 16 - 19 February 2008 & 30 November 2007

Map Information:
This map depicts satellite-detected flood waters over the affected Southern & Lusaka Provinces, Zambia. Flooded areas have been extracted from 30 meter AVHRR pixels for each date. Flood analysis was made using MODIS Terra & Aqua data recorded 16-19 February 2008 and 30 November 2007. This flood detection is a preliminary analysis & has not yet been validated in the field. The flood extent is a result of the Tropical Rainfall Measurement Mission (TRMM) precipitation dataset at a spatial resolution of approximately 3 km for the region.

It is possible that precipitation levels may have been underestimated for local areas, and it is possible that flood extents may have been overestimated for local areas. This flood analysis was not intended to be representative of the entire region. These maps are provided to inform decision making in response to flooding. Use at your own discretion. This analysis is provided for educational purposes and not for 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 analysis to UN organizations and other humanitarian and development agencies.

Rainfall Totals (1 Feb, 2007 - 20 Feb, 2008)

Map Legend:
- Capital
- City or Town
- Town / Village
- National Park
- Airport
- Park Boundary
- Forest / Bush
- Road
- Trail / Track
- Railroad
- Drainage Line
- MODIS Flood Water Classification
- Pre-Flood Waters (30 Nov, 2007)
- Flood Waters (16-19 February 2008)

Map Scale for A3: 1:850,000
1 centimeter equals 8 kilometers

Kilometers:
0 5 10 15 20
Meters:
0 25 50 100

Satellite Data:
- MODIS Terra & Aqua (RASD)
- Resolution: 500m (MODIS)
- Date Range: 30 Nov, 2007 & 16-19 Feb, 2008
- Flood Analysis:
- UKF/OSAT

Hydrology Data:
- HydroSheets (LUGS)
- DHI MODFLOW, WAVE, SNELWAT
- Map Projection:
- UKF/OSAT (21 February 2008)
- Datum: WGS84

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