















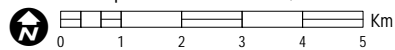
Satellite Detected Waters Extent and Evolution in Maroantsetra area, Analanjirofo region, Madagascar

This map illustrates satellite-detected flood waters extent and evolution between 10 and 08 March 2017 over Maroantsetra area, Analanjirofo region in Madagascar as detected by TerraSAR-X acquired on 10 and 08 March 2017 and Radarsat-2 image acquired on 04 May 2014. Between 08 and 10 March 2017 and within this map extent waters receded from about 4,270 ha of lands. Many areas within this zone remain affected and ~6,230 ha of lands were still flooded on the 10 March 2017 whereas ~10,500 ha of lands were flooded the 08 March 2017. It corresponds to about 40% decrease. It is likely that flood waters have been systematically underestimated along highly vegetated areas along main river banks and within built-up urban areas because of the special characteristics of the satellite data used. This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR UNOSAT.

Legend

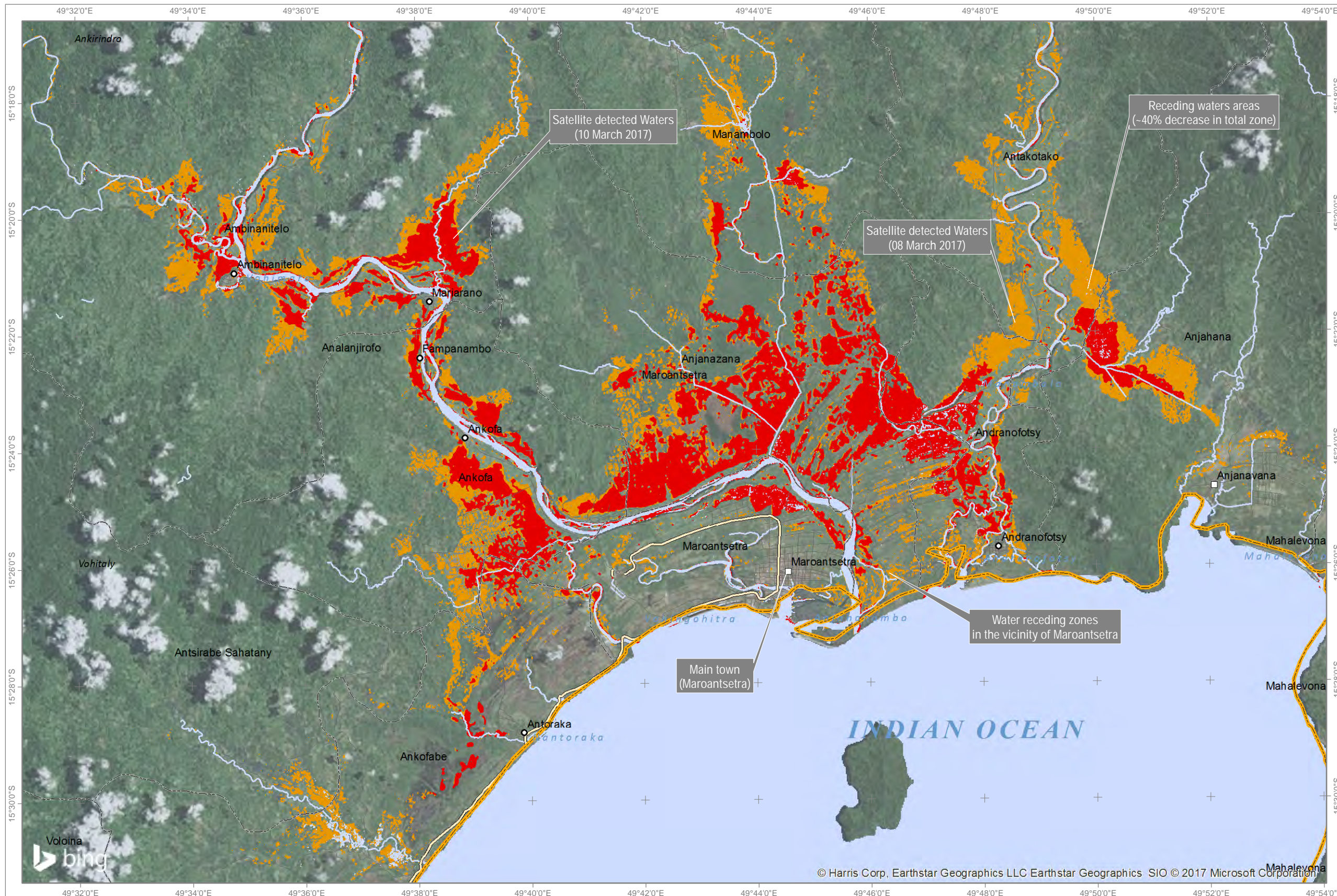
-  Village
-  City/Town
-  Highway/Primary road
-  Secondary road
-  Local/Urban road
-  River
-  Region boundary
-  District boundary
-  Commune boundary
-  Satellite detected waters : 04 May 2014
-  Satellite detected waters : 08 March 2017
-  Satellite detected waters : 10 March 2017

Map Scale for A3: 1:125,000



Analysis conducted with ArcGIS v10.4.1

Coordinate System: WGS 1984 UTM Zone 39S
Projection: Transverse Mercator
Datum: WGS 1984
Units: Meter



Satellite Data (1): TerraSAR-X
Imagery Dates: 10 March 2017
Resolution: 15 m
Copyright: TerraSAR-X/TanDEM-X © DLR e.V. 2017,
Distribution Airbus DS Geo GmbH
Source: DLR

Satellite Data (2): TerraSAR-X
Imagery Dates: 08 March 2017
Resolution: 8 m
Copyright: TerraSAR-X/TanDEM-X © DLR e.V. 2017,
Distribution Airbus DS Geo GmbH
Source: DLR

Satellite Data (3): Radarsat-2
Imagery Dates: 04 May 2014
Resolution: 6 m
Copyright: MacDonald, Dewitter and Associates, Ltd. Production: UNITAR UNOSAT (2017)
Source: CSA

Baseline Data : HDX, OCHA & WFP,
OpenStreetMap
Analysis : UNITAR UNOSAT



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. UNOSAT is a program of the United Nations Institute for Training and Research (UNITAR), providing satellite imagery and related geographic information, research and analysis to UN humanitarian & development agencies & their implementing partners. This work by UNITAR-UNOSAT is licensed under a CC BY-NC 3.0.