


3 Mar. 2022




TROPICAL CYCLONE EMNATI-22 PRELIMINARY SATELLITE-DERIVED DAMAGE ASSESSMENT



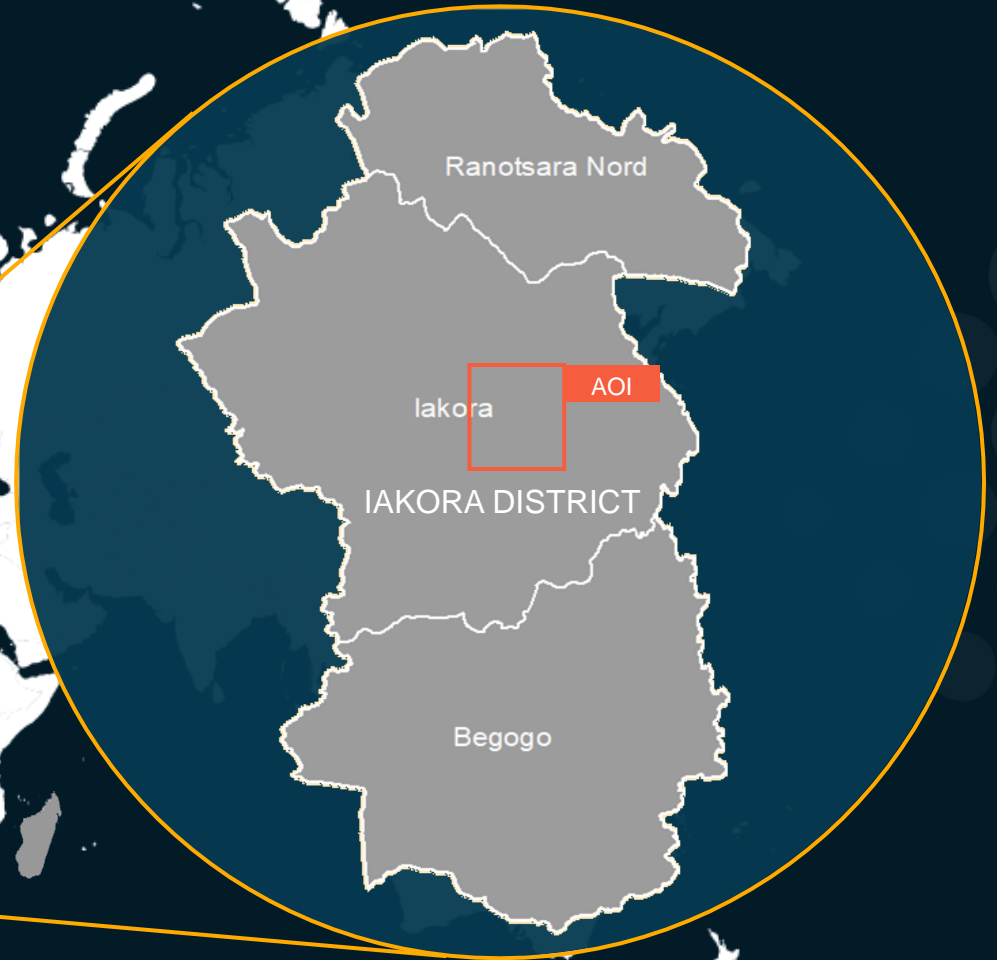
Iakora Commune, Iakora District, Ihorombe Region, Madagascar




 Status: Inundated agricultural area and affected transportation network observed

 Further action(s): Continue monitoring



MADAGASCAR



-  Area of interest
-  Commune boundary
-  Region boundary

AOI1 IAKORA TOWN, IAKORA COMMUNE, IAKORA DISTRICT, IHOROMBE REGION

Floods along the Ionaivo river / Affected facilities



Pléiades image acquired on 2 March 2022
Image Center : 46°39'40.903"E 23°6'2.741"S

AOI1 IAKORA TOWN, IAKORA DISTRICT, IHOROMBE REGION

Floods along the Ionaivo river

Image center:
46°39'41.634"E
23°5'54.175"S

Iakora District



Sentinel-2/ 30 Jan. 2022



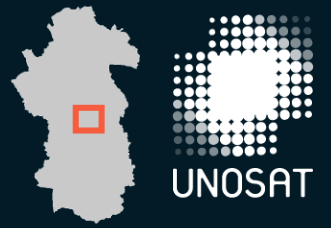
Pléiades/ 2 Mar. 2022

AOI1 IAKORA TOWN, IAKORA DISTRICT, IHOROMBE REGION

Inundated agricultural area and affected road

Image center:
46°39'17.884"E
23°5'56.829"S

Iakora District



AO11 IAKORA TOWN, IAKORA DISTRICT, IHOROMBE REGION

Inundated agricultural area and affected road

Image center:
46°39'45.449"E
23°6'4.963"S

Iakora District



ESRI Basemap/ WroldView-2/ 22 Jul. 2019

Pléiades/ 2 Mar. 2022

AOI-2 NORTHERN PART OF IAKORA TOWN, IAKORA COMMUNE, IAKORA DISTRICT, IHOROMBE REGION

Floods along the Ionaivo river / Inundated road



UNOSAT



Iakora District



Inundated agricultural land

Overflow

Ionaivo river

Inundated road



See inset for close view

Road number 16



100 m

Pléiades image acquired on 2 March 2022
Image Center : 46°40'13.584"E 23°3'37.251"S

AOI-3 NORTHERN PART OF IAKORA TOWN, IAKORA COMMUNE, IAKORA DISTRICT, IHOROMBE REGION

Floods along the Ionaivo river and inundated road



Inundated area

Overflow

Inundated area

Inundated road

Road number 16

Road number 16

Ionaivo river

Ionaivo river



Pléiades image acquired on 2 March 2022
Image Center : 46°39'49.694"E 23°4'28.426"S

SUMMARY OF FINDINGS

- Inundated road along the Ionaivo river observed as of 2 March 2022;
- Inundated agricultural land along the Ionaivo river observed as of 2 March 2022;
- Potentially affected bridge observed in Iakora town, Iakora district, Ihorombe region as of 2 March 2022;
- No widespread structural damage observed in Iakora town, Iakora district, Ihorombe region as of 2 March 2022.

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Data sources:

(1) Satellite Image (Post-event)

Satellite : Pleiades
Imagery Date : 2 March 2022
Resolution : 50 cm
Copyright : ©CNES (2022), distribution Airbus D&S
Source : Airbus DS

(2) Satellite Image (Pre-event)

Satellite : Sentinel-2B
Imagery Date : 30 January 2022
Resolution : 10 m
Copyright : Contains modified Copernicus Sentinel data [2022]
Source: ESA

ESRI based map

(3) Ancillary data

Administrative boundaries: Madagascar National Disaster Management Office (BNGRC)

Analysis: United Nations Satellite Centre (UNOSAT)
Production: United Nations Satellite Centre (UNOSAT)

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