16 Feb 2022



TROPICAL CYCLONE BATSIRAI-22, PRELIMINARY SATELLITE-DERIVED ROAD DAMAGE ASSESSMENT,



Route: Ifanadiana – Ikongo District, Vatovavy Fitovinany Region



Status: Inundated and damaged roads observed



Further action(s): Continue monitoring









IFANADIANA DISTRICT, VATOVAVY FITOVINANY REGION

Image center: 47°36'58.795"E 21°20'5.444"S





AFTER

Potentially affected road



IFANADIANA DISTRICT, VATOVAVY FITOVINANY REGION

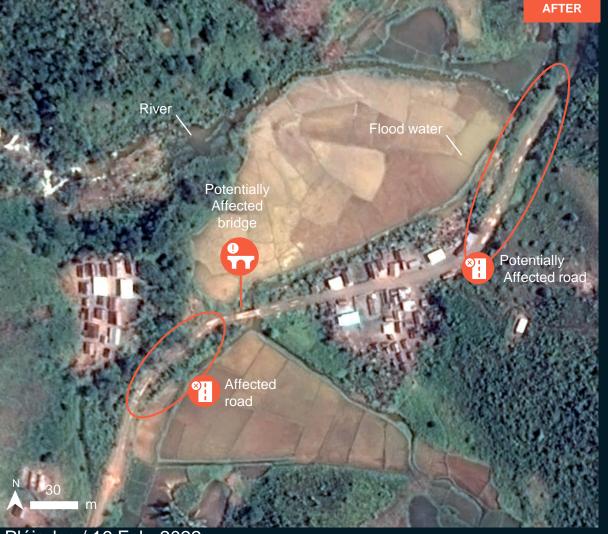
Image center: 47°36'52.284"E 21°20'14.059"S





Potentially affected road and bridge





Google Earth/ Aug 2019

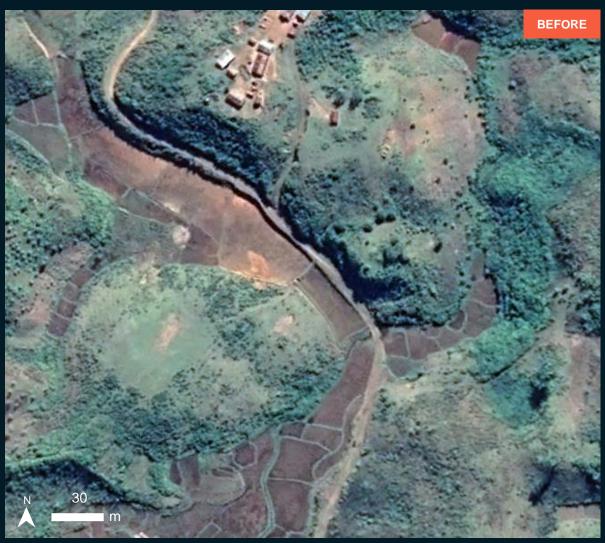
Pléiades / 16 Feb. 2022

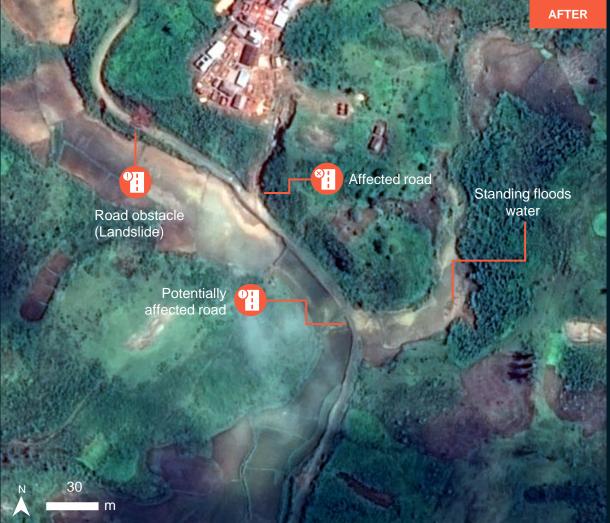
Image center: 47°26'41.63"E 21°55'59.258"S





Affected road





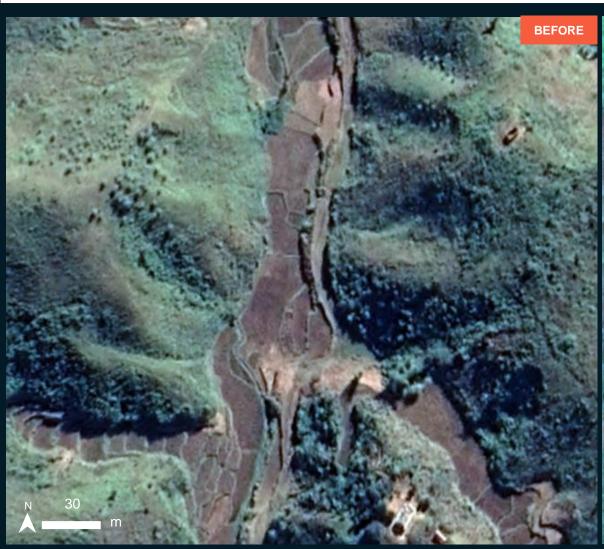
Google Earth/ July 2019

Image center: 47°26'38.17"E 21°56'16.34"S





Road affected by landslides





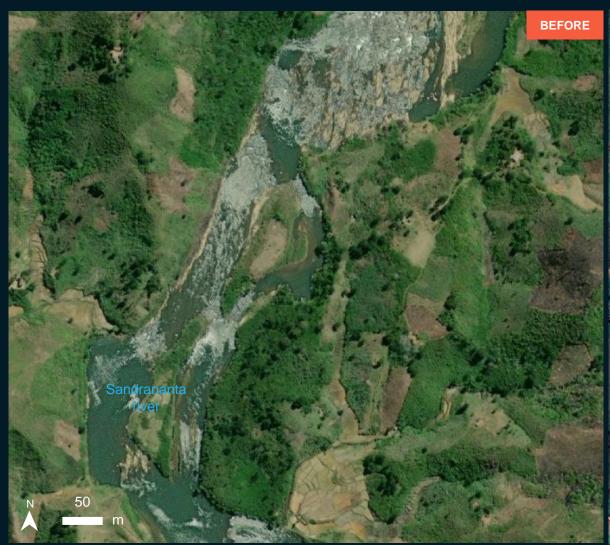
Pléiades / 16 Feb. 2022

Image center: 47°27'30.708"E 21°57'19.746"S





Riverbank erosion and landslides





ESRI basemap/ WorldView-2/7 Sep 2020

Pléiades / 16 Feb. 2022

Image center: 47°27'15.66"E 21°59'53.186"S





Road affected by landslides

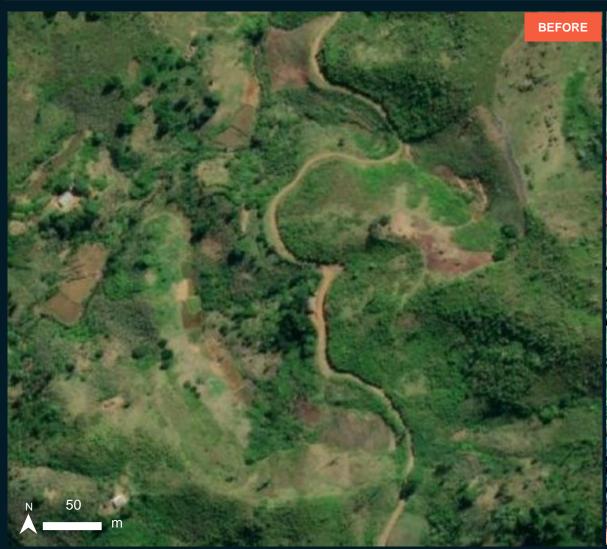


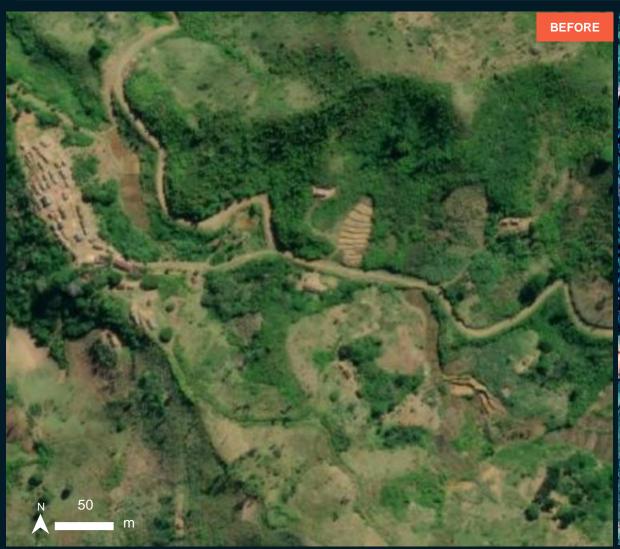


Image center: 47°27'19.736"E 22°0'18.531"S





Inundated road





ESRI basemap/ WorldView-3/ 10 Aug 2020

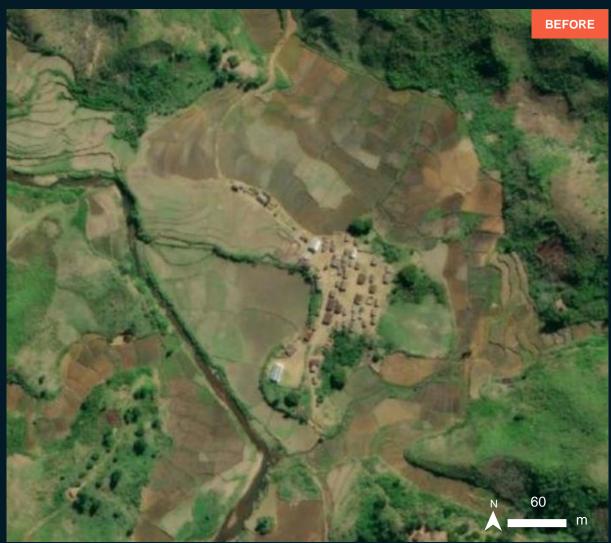
Pléiades / 16 Feb. 2022

Image center: 47°25'32.726"E 22°0'19.512"S





Inundated settlement



AFTER Standing floods water Inundated Standing floods water

ESRI basemap/ WorldView-3/ 10 Aug 2020

Pléiades / 16 Feb. 2022

SUMMARY OF FINDINGS



- No visible damage to the road in Ifanadiana town, Vatovavy Fitovinany Region as of 16 February 2022;
- Potentially damaged road and bridge observed in Ifanadiana district as of 16 February 2022;
- Affected roads by floods and landslides in Ikongo district, Vatovavy Fitovinany Region observed as of 16 February 2022;
- Riverbank erosion and landslides along the Sandrananta river, Ikongo district, Vatovavy Fitovinany Region observed as of 16 February 2022;
- Inundated settlement in the Ikongo district (Vatovavy Fitovinany) was observed as of 16 February 2022.

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Data sources:

(1) Satellite Image (Post-event)

Satellite: Pleiades

Imagery Date: 16 February 2022

Resolution: 50 cm

Copyright: ©CNES (2022), distribution Airbus D&S

Source : Airbus DS

(2) Satellite Image (Pre-event)

Google Earth 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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