19 Apr. 2022



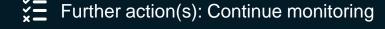
PRELIMINARY SATELLITE-DERIVED FLOOD AND LANDSLIDE ASSESSMENT





Leyte and Southern Leyte Provinces, Philippines

Status: : Extensive damage to structures and road including agricultural area observed















FLOODS OVER PHILIPPINES



Samar





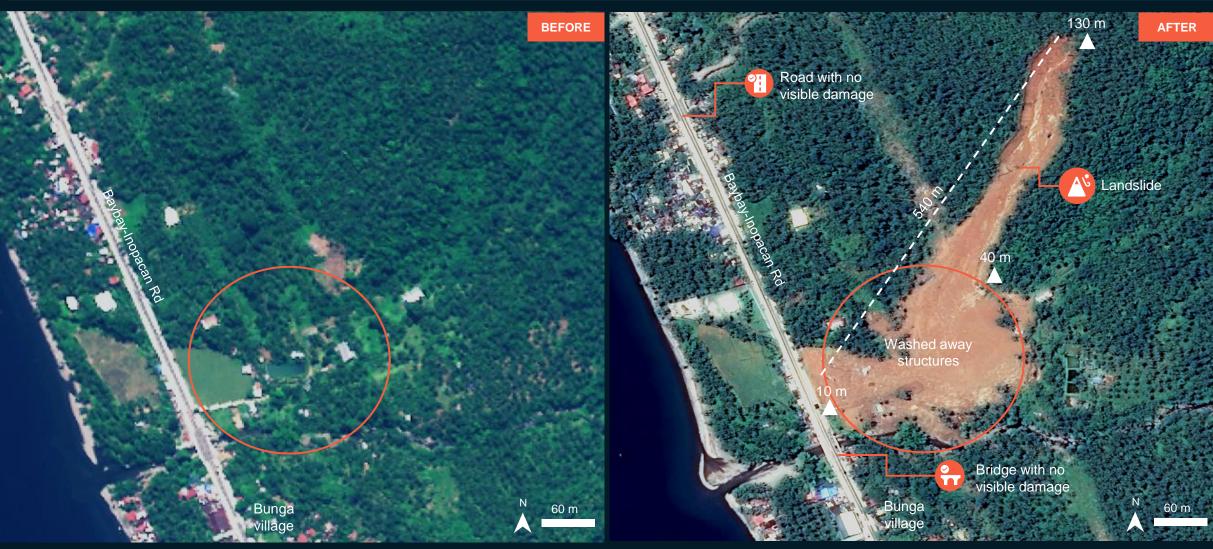
AOI1-1 BUNGA VILLAGE, CITY OF BAYBAY, LEYTE PROVINCE, REGION VIII

Washed away structures caused by the landslide

Image center: 124°46'54.157"E 10°47'2.891"N







A011-2 CITY OF BAYBAY, LEYTE PROVINCE, REGION VIII

Image center: 124°46'22.657"E 10°47'52.705"N





Riverbanks erosion along the rivers





A011-3 CITY OF BAYBAY, LEYTE PROVINCE, REGION VIII

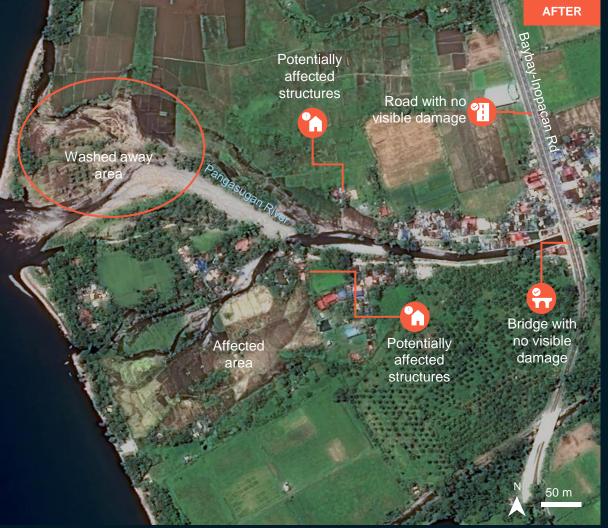
Image center: 124°47'16.324"E 10°44'57.948"N





Riverbanks erosion and potentially affected structures along the rivers





A011-4 CITY OF BAYBAY, LEYTE PROVINCE, REGION VIII

Image center: 124°47'48.101"E 10°43'14.55"N





Riverbanks erosion and potentially affected structures along the rivers





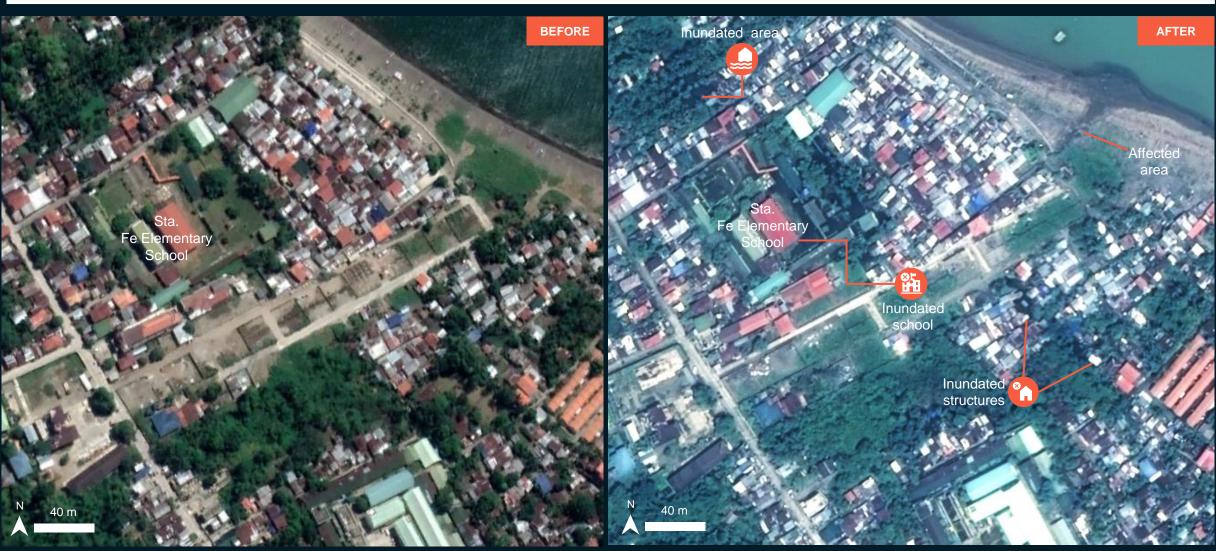
AOI2-1 SANTA FE VILLAGE, ABUYOG MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Image center: 125°1'5.586"E 10°44'25.747"N





Inundated school and inundated structures



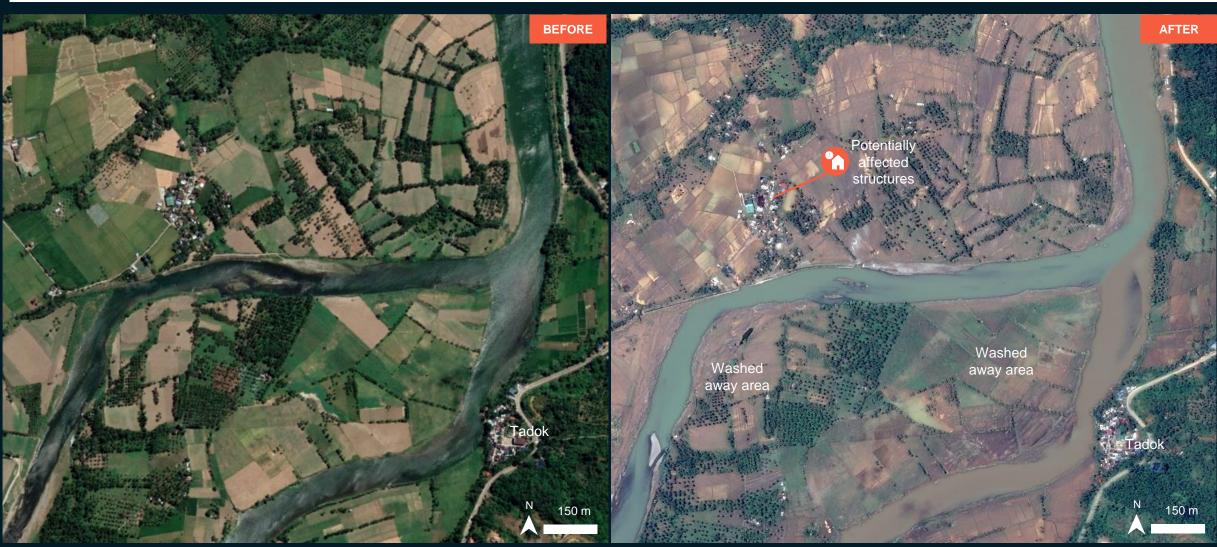
AOI2-2 TINALI-AN VILLAGE, ABUYOG MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Image center: 125°0'3.255"E 10°42'34.661"N





Flood waters in agricultural area and Potentially affected structures



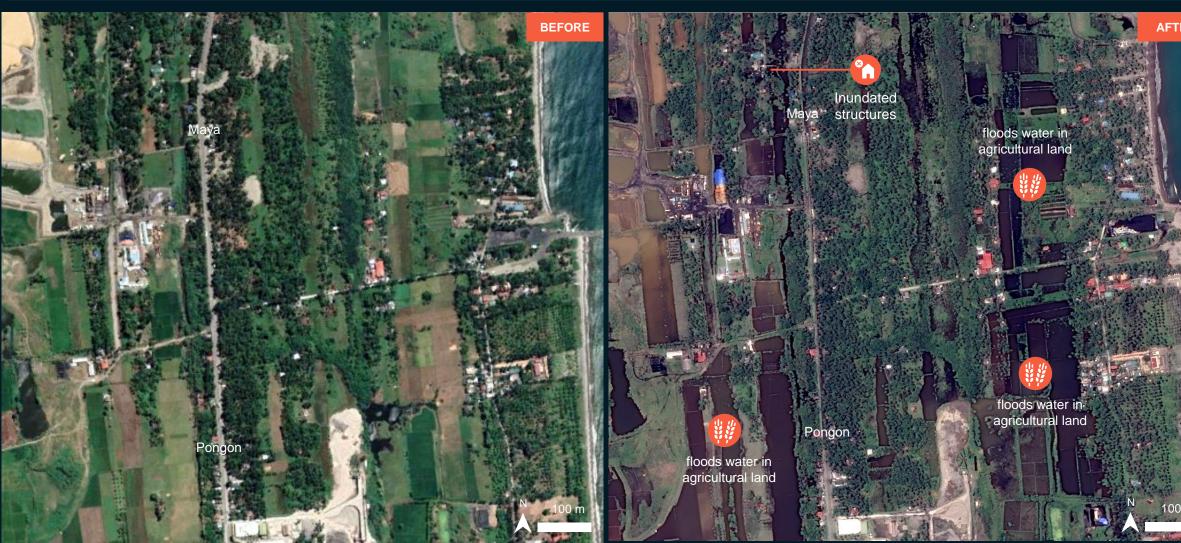
A012-3 MAYA AND PONGON VILLAGES, MACARTHUR MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Image center: 124°59'55.27"E 10°48'3.821"N





Flood waters in agricultural areas and Inundated structures



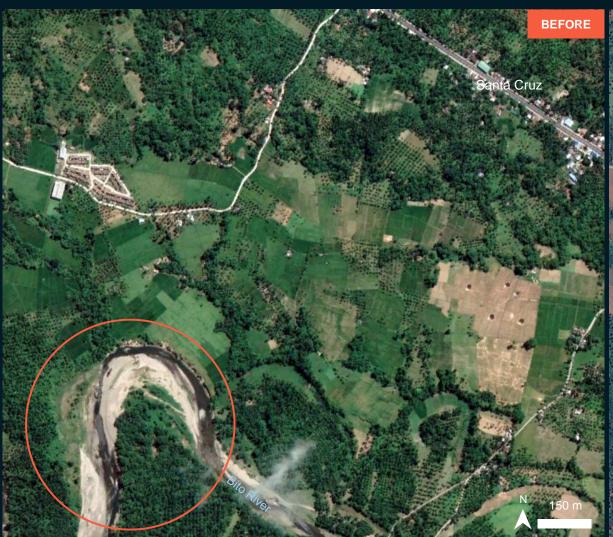
AOI2-4 MAYA AND PONGON VILLAGES, JAVIER MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Image center: 124°56'47.063"E 10°46'32.191"N





Flood waters in agricultural area







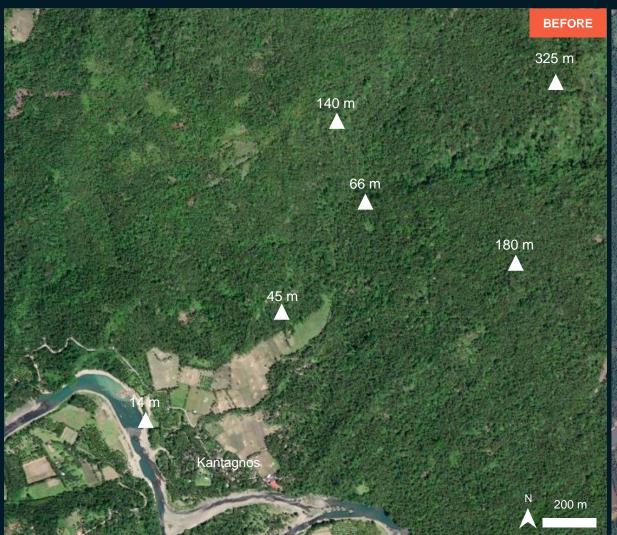
AOI3-1 KANTAGNOS VILLAGE, CITY OF BAYBAY, LEYTE PROVINCE, REGION VIII

Image center: 124°51'9.443"E 10°40'38.116"N





Washed away settlement by landslide





ESRI Basemap/ WorldView-2/ 20 Apr. 2019

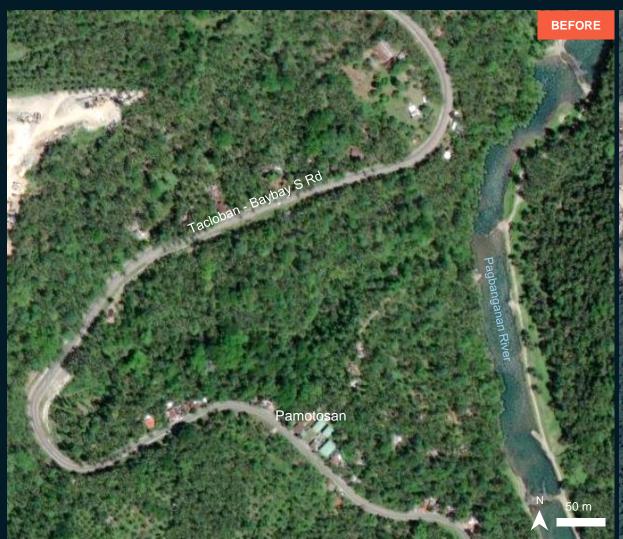
A013-2 PAMOTOSAN VILLAGE, CITY OF BAYBAY, LEYTE PROVINCE, REGION VIII

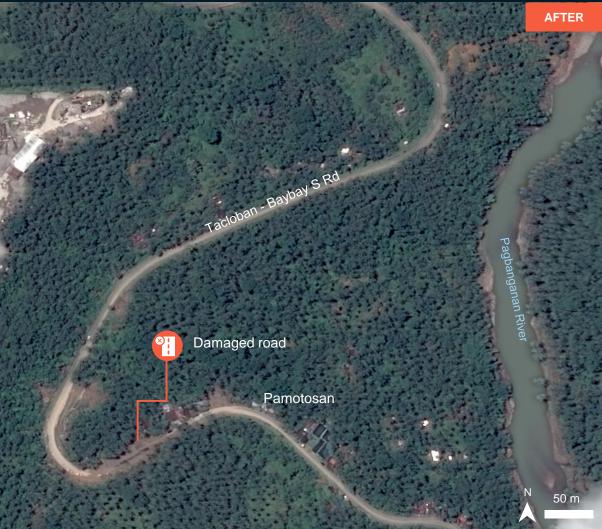
Image center: 124°51'34.582"E 10°38'48.441"N





Damaged road





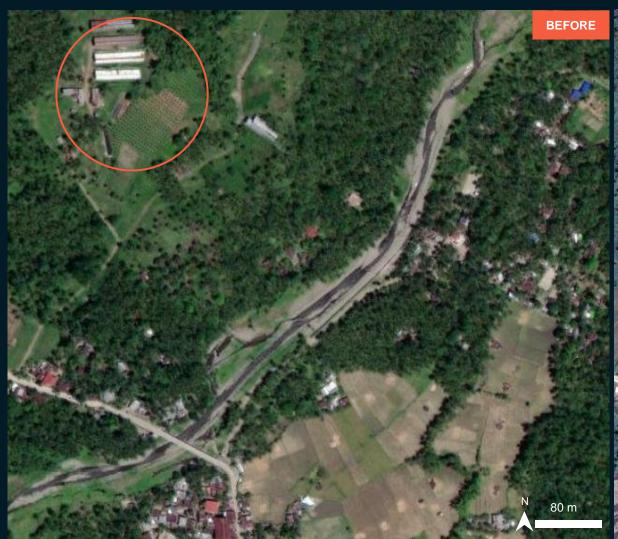
A013-3 CITY OF BAYBAY, LEYTE PROVINCE, REGION VIII

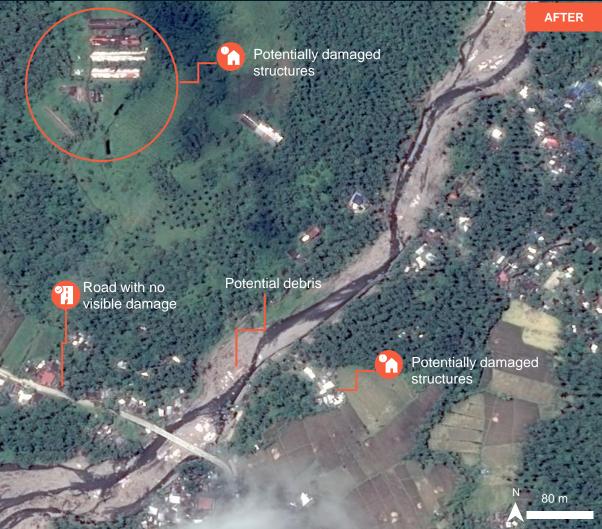
Image center: 124°50'15.563"E 10°40'49.001"N





Potentially damaged structures





ESRI Basemap/ WorldView-2/ 20 Apr. 2019

Pleiades / 17 Apr. 2022

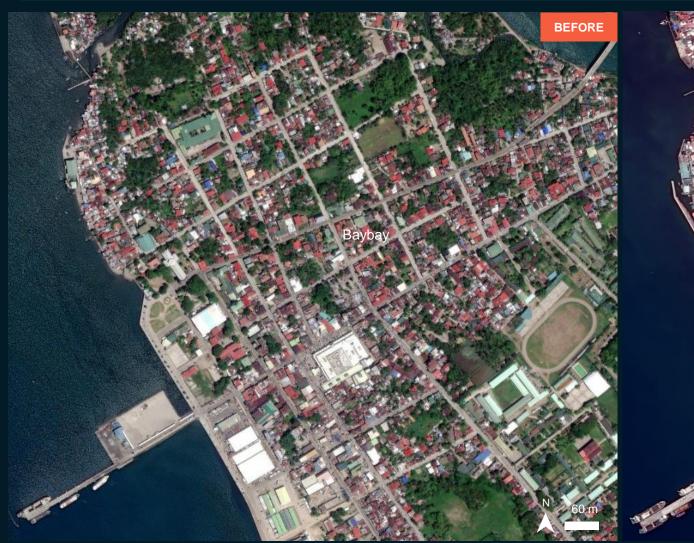
A013-4 CITY OF BAYBAY, LEYTE PROVINCE, REGION VIII

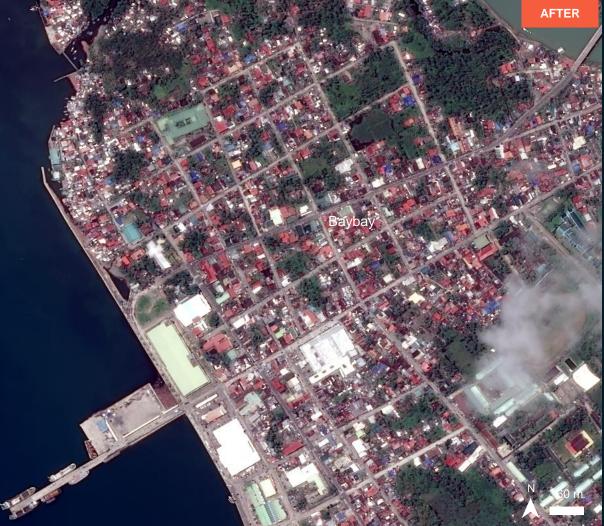
Image center: 124°48'0.057"E 10°40'43.194"N





No visible damaged





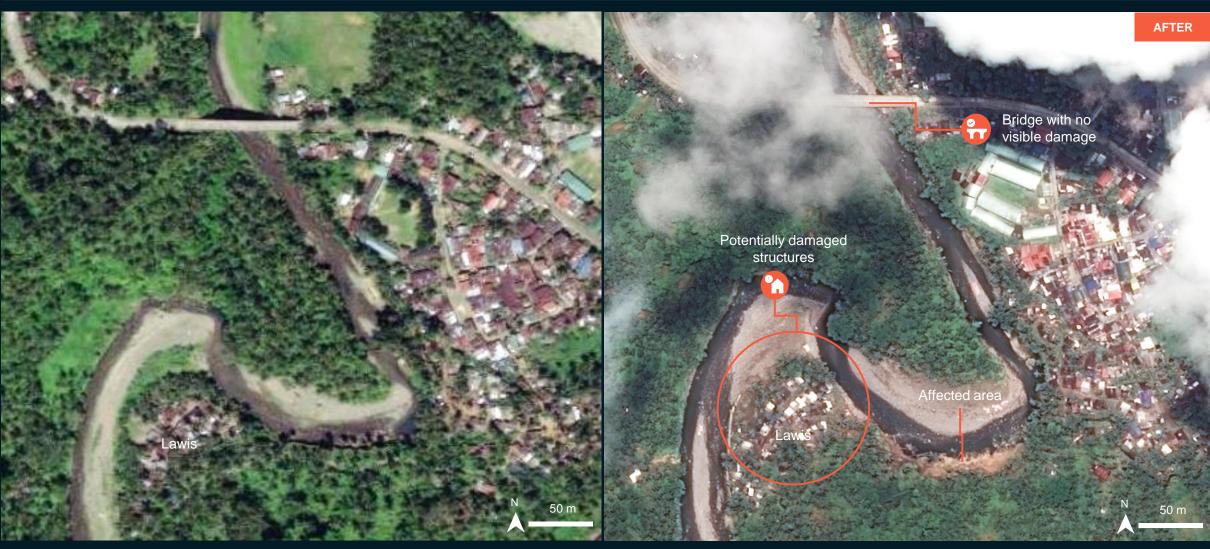
A014-1 MAHAPLAG MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Potentially damaged structures

Image center: 124°58'0.26"E 10°31'31.239"N







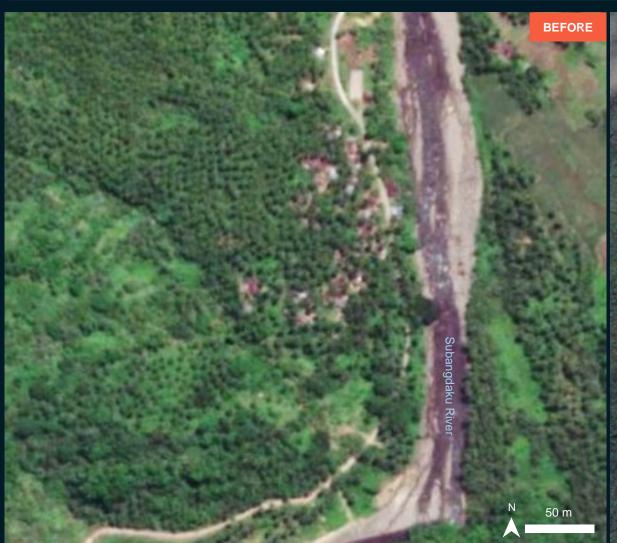
A014-2 SOGOD MUNICIPALITY, SOUTHERN LEYTE PROVINCE, REGION VIII

Image center: 125°1'39.986"E 10°26'15.969"N





Damaged road and riverbanks erosion





ESRI Basemap/ WorldView-2/ 20 Apr. 2019

Pleiades / 16 Apr. 2022

SUMMARY OF FINDINGS



City of Baybay, Leyte Province

- No major floods observed in Baybay city, City of Baybay, Leyte Province, Region VIII observed as of 17 Apr. 2022;
- Landslides in Banga and Kantagnos villages, City of Baybay, Leyte Province, Region VIII as of 14 and 17 Apr. 2022;
- 20 structures near Banga village are heavily damaged and/or destroyed as of 14 Apr. 2022;
- 83 structures in Kantagnos village are heavily damaged and/or destroyed as of 17 Apr. 2022;
- Riverbanks erosion and potentially affected structures along the rivers in City of Baybay, Leyte Province, Region VIII observed as of 14 Apr. 2022;
- Damaged road in Pamotosan Village, City Of Baybay, Leyte Province, Region VIII observed as of 17 Apr. 2022;
- Potentially damaged structures observed in City of Baybay, Leyte Province, Region VIII as of 17 Apr. 2022

Javier, Macarthur, Abuyog Municipalities, Leyte Province

- Inundated Sta. Fe Elementary School and inundated structures in Abuyog Municipalities, Leyte Province, Region VIII observed as of 17 Apr. 2022;
- Affected agricultural land in Javier, Macarthur, Abuyog Municipalities, Leyte Province, Region VIII observed as of 17 Apr. 2022;
- Affected road and affected structures by floods in Macarthur and Abuyog Municipalities, Leyte Province, Region VIII observed as of 17 Apr. 2022;

Mahaplag Municipality, Leyte Province

• Potentially damaged structures along the river In Mahaplag Municipality, Leyte Province, Region VIII observed as of 16 Apr. 2022;

Sogod Municipality, Southern Leyte Province

 Damaged road and Riverbanks erosion along the Subangdaku River In Sogod Municipality, Southern Leyte Province, Region VIII observed as of 16 Apr. 2022

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Data sources:

(1) Satellite Image (Post-event)

Satellite: Pleiades

Imagery Date: 14, 16, and 17 April 2022

Resolution: 50 cm

Copyright: © CNES (2022), Distribution Airbus DS.

Source: Airbus DS

(1) (2) Satellite Image (Pre-event)

Satellite: WorldView-2

Imagery Date: 24 May. 2020

Resolution: 50 cm

Copyright: © DigitalGlobe, Inc. (2020)

Source: USGS

Satellite: WorldView-2 Imagery Date: 29 Jul. 2021

Resolution: 50 cm

Copyright: © DigitalGlobe, Inc. (2021)

Source: USGS

(3) Ancillary data

Administrative boundaries: National Mapping and Resource Information Authority (NAMRIA), Philippines Statistics Authority (PSA)

Populate place: OSM

River data: OSM

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







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