PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT

Abuyog Municipality, Leyte Province, Region VIII, Philippines

Status: Increased flood waters in urban area and standing waters in agricultural area observed

Further action(s): Continue monitoring
FLOODS OVER PHILIPPINES

Legend
- Region boundary
- Province boundary
- River
- Cloud mask
- Area of interest
- Minimum floodwater extent
- Maximum floodwater extent
5-day VIIRS composite [19 to 23 Apr. 2022]
Increased flood waters, inundated road and inundated structures.
Increased waters, Inundated road and Inundated structures
AOI1-2 SANTA FE VILLAGE, ABUYOG MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Increased waters, Inundated road

Before: Pléiades/ 17 Apr. 2022

Inundated Sta. Fe Elementary School

Full cloud covers in Sta. Fe Elementary School area

Flood waters affecting the road

Potentially Inundated structures

After: Pléiades/ 22 Apr. 2022

Image center:
125°10.697°E
10°44'23.862°N
AOI1-3 BUENAVISTA VILLAGE, ABUYOG MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Increased waters, inundated road and Inundated structures
AOI1-4 BUNGA VILLAGE, ABUYOG MUNICIPIALITY, LEYTE PROVINCE, REGION VIII

Inundated road and standing waters in agricultural area

Pléiades image acquired on 22 Apr. 2022
Image Center: 124°59’59.837”E 10°45’43.501”N
AOI1-4 BUNGA VILLAGE, ABUYOG MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Inundated road and standing waters in agricultural area

Pléiades/ 17 Apr. 2022

Pléiades/ 22 Apr. 2022

Image center:
124°59'59.646"E
10°45'43.508"N
AOI1-5 ABUYOG MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Inundated road and standing waters in agricultural area

INSET

Flood waters affecting the road

Inundated structures

Standing floods water in agricultural area

See inset for close view

Pléiades image acquired on 22 Apr. 2022
Image Center: 124°59'2.781"E 10°44'5.213"N

Standing waters in agricultural area
AOI1-5 ABUYOG MUNICIPALITY, LEYTE PROVINCE, REGION VIII

Inundated road and Inundated structures

Pléiades/ 22 Apr. 2022

Image center:
124°59'7.434"E 10°43'57.799"N

Pléiades/ 17 Apr. 2022

Flood waters affecting the road

Inundated structures
SUMMARY OF FINDINGS

- Increased flood waters in Abuyog Town, Abuyog Municipality, Leyte Province, Region VIII observed as of 22 Apr. 2022;
- Inundated roads observed in Abuyog Town, Santa Fe Village, and Buenavista Village, Abuyog Municipality, Leyte Province, Region VIII observed as of 22 Apr. 2022;
- Inundated structures in Abuyog Town, Santa Fe Village, Buenavista Village, and Bunga village, Abuyog Municipality, Leyte Province, Region VIII observed as of 22 Apr. 2022;
- Potentially affected schools by floods of Notre Dame of Abuyog and Gabaldon Elementary Schools in Abuyog Town, Abuyog Municipality, Leyte Province, Region VIII observed as of 22 Apr. 2022;
- Standing waters in agricultural areas observed in Abuyog Municipality, Leyte Province, Region VIII observed as of 22 Apr. 2022;
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Data sources:

(1) Satellite Image (Post-event)
Satellite: Pléiades
Imagery Date: 22 Apr. 2022
Resolution: 50 cm
Copyright: © CNES (2022), Distribution Airbus DS.
Source: Airbus DS

(2) Satellite Image (Pre-event)
Satellite: Pléiades
Imagery Date: 17 Apr. 2022
Resolution: 50 cm
Copyright: © CNES (2022), Distribution Airbus DS.
Source: Airbus DS

(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)