Satellite detected waters in Virac and Bato Municipalities, Catanduanes Province, Bicol Region, Philippines as of 1 November 2020

This map illustrates satellite-detected surface waters in Virac and Bato Municipalities, Catanduanes Province, Bicol Region, Philippines as observed on Sentinel-1 image acquired on 1st of November 2020 at 17:57 local time. Within the analyzed area of about 130 km², a total of about 1 km² of lands appear to be flooded. Based on WorldPop population data and the detected surface waters, about 600 people are potentially exposed or living close to flooded areas.

This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR-UNOSAT.

Important Note: Flood analysis from radar images may understate the presence of standing waters in built-up areas and densely vegetated areas due to backscattering properties of the radar signal.

Legend

- Airport
- Village
- Town
- Primary road
- Secondary road
- Tertiary road
- Municipality boundary
- Reference water
- Satellite detected water (1 November 2020)

Map Scale for A3: 1:50,000

Analysis conducted with ArcGIS v10.7
Coordinate System: WGS 1984 UTM Zone 51N
Projection: Transverse Mercator
Datum: WGS 1984
Unit: Meter

Satellite Data: Sentinel-1
Imagery Dates: 1 Nov 2020
Acquisition time: 09:57 UTC
Resolution: 10 m

Copyright: Contains modified Copernicus Sentinel Data [2020]
Source: EEA

Administrative boundaries: Philippines Statistics Authority (PSA)
Reference Water: The European Commission’s JRC
Road: Open Street Map
Background: ALOS Global DSM

Analysis: UNITAR – UNOSAT
Production: UNITAR – UNOSAT