

THAILAND

UPPER CENTRAL REGION

IMAGERY ANALYSIS: 02/10/2021 PUBLISHED 03/10/2021 V1.

| | | | | |
|---|---|---|---|---|
| ANALYZED AREA 4,500km² | OBSERVED FLOODS [28 SEP 2021] 360km² | OBSERVED FLOODS [02 OCT 2021] 450km² | POPULATION POTENTIALLY EXPOSED [28 SEP 2021] 35,800 | POPULATION POTENTIALLY EXPOSED [02 OCT 2021] 48,700 |
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Satellite detected water extents in upper central region, Thailand as of 2 October 2021

This map illustrates satellite-detected surface waters in Sukhothai, Phitsanulok, Kamphaeng Phet, and Uttaradit provinces of Thailand as observed from a Sentinel-1 image acquired on 2 October 2021 at 06:17 local time. Within the analyzed area of about 4,500 km², about 450 km² of lands appear to be flooded. The water extent appears to have increased of about 90 km² since 28 September 2021. Based on Worldpop population data and the detected surface waters in the analyzed area, the potentially exposed population is mainly located in the district of Mueang Sukhothai with ~ 14,000 people, Sawankhalok with ~ 14,000 people, Khiri Mat with ~ 7,400 people, and Si Samrong with ~ 7,000 people.

This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to United Nations Satellite Centre (UNOSAT).

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



Legend

- Village
- City/Town
- River
- Primary road
- Secondary road
- Province boundary
- District boundary
- Analysis Extent
- Reference water
- Satellite detect water [2 Oct 2021]
- Satellite detect water [28 Sep 2021]



Map Scale for A3: 1:250,000



Spatial Reference Name: WGS 1984 UTM Zone 47N
 PCS: WGS 1984 UTM Zone 47N
 GCS: GCS WGS 1984
 Datum: WGS 1984
 Projection: Transverse Mercator

Satellite Data: Sentinel-1
 Imagery Dates: 1 Oct 2021 at 23:17 UTC
 Resolution: 10 m
 Copyright: Contains modified Copernicus Sentinel Data [2021]
 Source: ESA

Flood data as of 28 Sep 2021: GISTDA (flood.gistda.or.th)
 Administrative boundaries: Royal Thai Survey Department
 Population data: WorldPop [2020]
 Reference Water: JRC
 Populated place: OpenStreetMap

Road data: OpenStreetMap
 Waterways: OpenStreetMap
 Background: ALOS Global DSM
 Insets: Sentinel-2/01 Oct 2021 at 10:45 local time

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