

# THAILAND

## CHAIYAPHUM AND NAKHON RATCHASIMA PROVINCES

IMAGERY ANALYSIS: 04/10/2022 PUBLISHED 06/10/2022 V1.



TROPICAL CYCLONE  
TC20220928THA

Map Location

Satellite detected water  
extents over Chaiyaphum  
and Nakhon Ratchasima  
Provinces, Thailand as of  
4 October 2022

This map illustrates satellite-detected surface waters in Chaiyaphum and Nakhon Ratchasima Provinces, Thailand as observed from a RCM-2 image acquired on 4 October 2022 at 06:08 local time. Within the extent of this map of 1,100 km<sup>2</sup>, about 240 km<sup>2</sup> of lands appear to be flooded. Based on Worldpop population data and the detected surface waters in the map extent, about 24,000 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 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

- City/Town
- Village
- River
- Railway
- Primary road
- Secondary road
- Other road
- Province boundary
- District boundary
- Analysis extent
- Reference water
- Satellite detected water [4 Oct. 2022]

Province	District	Analyzed area (km <sup>2</sup> )	Total population in analyzed area	Flood water extent [4 Oct. 2022] (km <sup>2</sup> )	Population potentially exposed [4 Oct. 2022]	Population potentially exposed in analyzed area [4 Oct. 2022] (%)
Chaiyaphum	Ban Khwao	107	16,310	48	5,120	31%
	Chatturat	147	14,080	29	2,590	18%
	Mueang Chaiyaphum	496	90,170	126	12,650	14%
	Noen Sa-Nga	189	15,530	12	1,460	9%
	Sub Total	939	136,090	216	21,820	16%
Nakhon Ratchasima	Ban Lueam	127.65	14,270	14	1,290	9%
	Kaeng Sanam Nang	42.02	4,540	8	710	16%
	Phong	34.63	4,520	<1	70	2%
	Sub Total	204	23,330	22	2,070	9%
Total		1,144	159,420	238	23,890	15%

Map Scale for A3: 1:120,000

0 1.25 2.5 5 KM

Spatial Reference  
Name: WGS 1984 UTM Zone 48N  
PCS: WGS 1984 UTM Zone 48N  
GCS: GCS WGS 1984  
Datum: WGS 1984

Satellite Data : RCM-2  
Imagery Date: 3 Oct. 2022 at 23:08 UTC  
Resolution: 5 m  
Copyright: RADARSAT Constellation Mission Imagery © Government of Canada (2022)  
Source: CSA / RCM-2

Boundary data: Royal Thai Survey Department  
Reference water: JRC and ESA Worldcover 2020  
Copyright: © ESA WorldCover project 2020 / Contains modified Copernicus Sentinel data (2020) processed by ESA WorldCover consortium  
Waterways: OpenStreetMap  
Population data: Worldpop [2020]

Background: ESRI Basemap  
Analysis: United Nations Satellite Centre  
Production: United Nations Satellite Centre (UNOSAT)