

3 October 2022



PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT

ROI ET, YASOTHON, AMNAT CHAROEN, UBON RATCHATHANI,
SI SA KET AND SURIN PROVINCES, THAILAND

การประเมินพื้นที่น้ำท่วมด้วยข้อมูลจากดาวเทียม

พื้นที่จังหวัดร้อยเอ็ด ยโสธร อำนาจเจริญ อุบลราชธานี ศรีสะเกษ และสุรินทร์ ประเทศไทย



 Status: Standing waters extent increase observed

 Further action(s): continue monitoring



THAILAND



ROI ET PROVINCE

จังหวัดร้อยเอ็ด

 Flood extent as of 1 Oct. 2022 [After TC NORU]

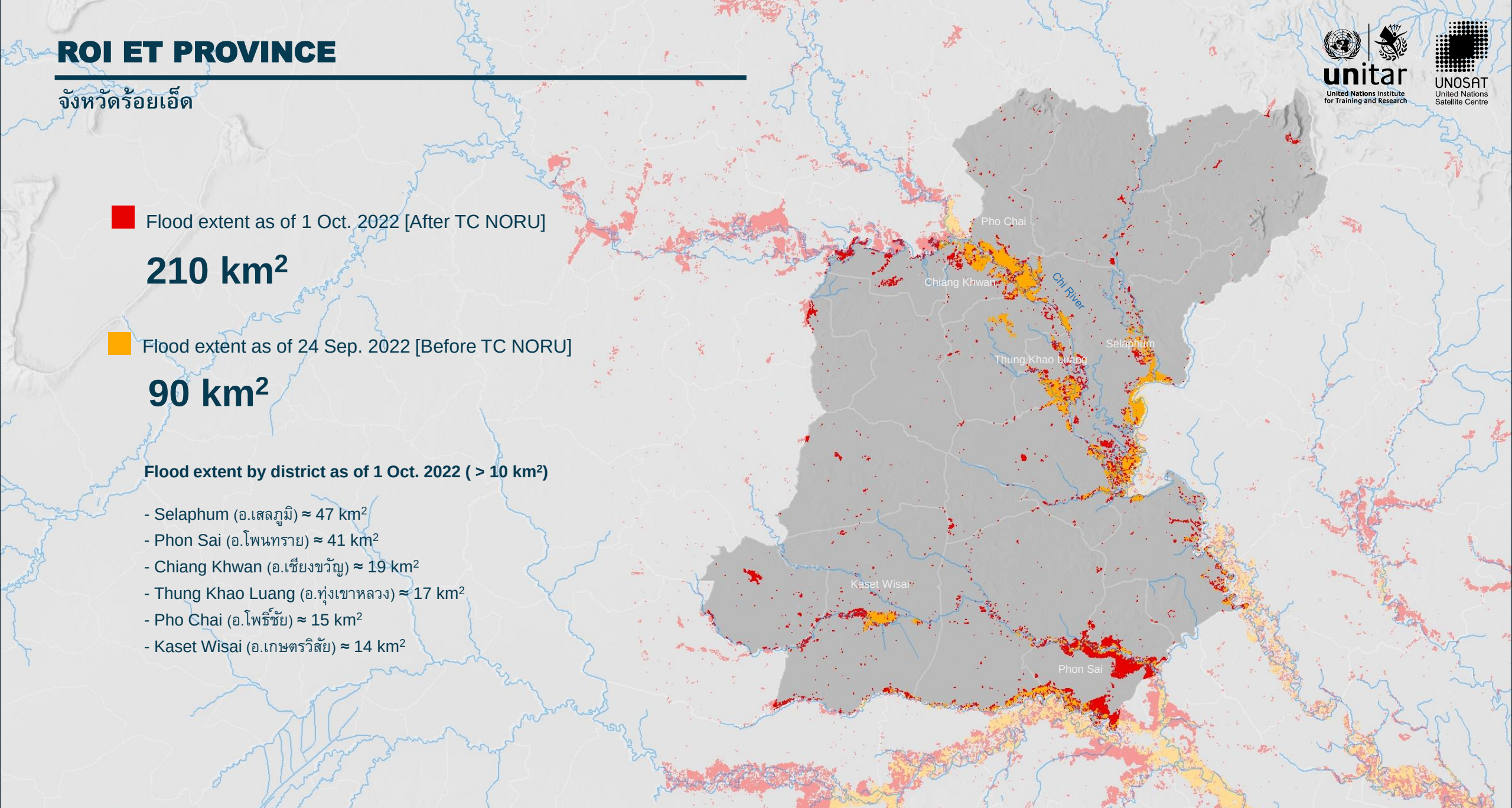
210 km²

 Flood extent as of 24 Sep. 2022 [Before TC NORU]

90 km²

Flood extent by district as of 1 Oct. 2022 (> 10 km²)

- Selaphum (อ.เสลภูมิ) ≈ 47 km²
- Phon Sai (อ.โพนทราย) ≈ 41 km²
- Chiang Khwan (อ.เชียงขวัญ) ≈ 19 km²
- Thung Khao Luang (อ.ทุ่งเขาหลวง) ≈ 17 km²
- Pho Chai (อ.โพธิ์ชัย) ≈ 15 km²
- Kaset Wisai (อ.เกษตรวิสัย) ≈ 14 km²



YASOTHON PROVINCE

จังหวัดยโสธร

 Flood extent as of 1 Oct. 2022 [After TC NORU]

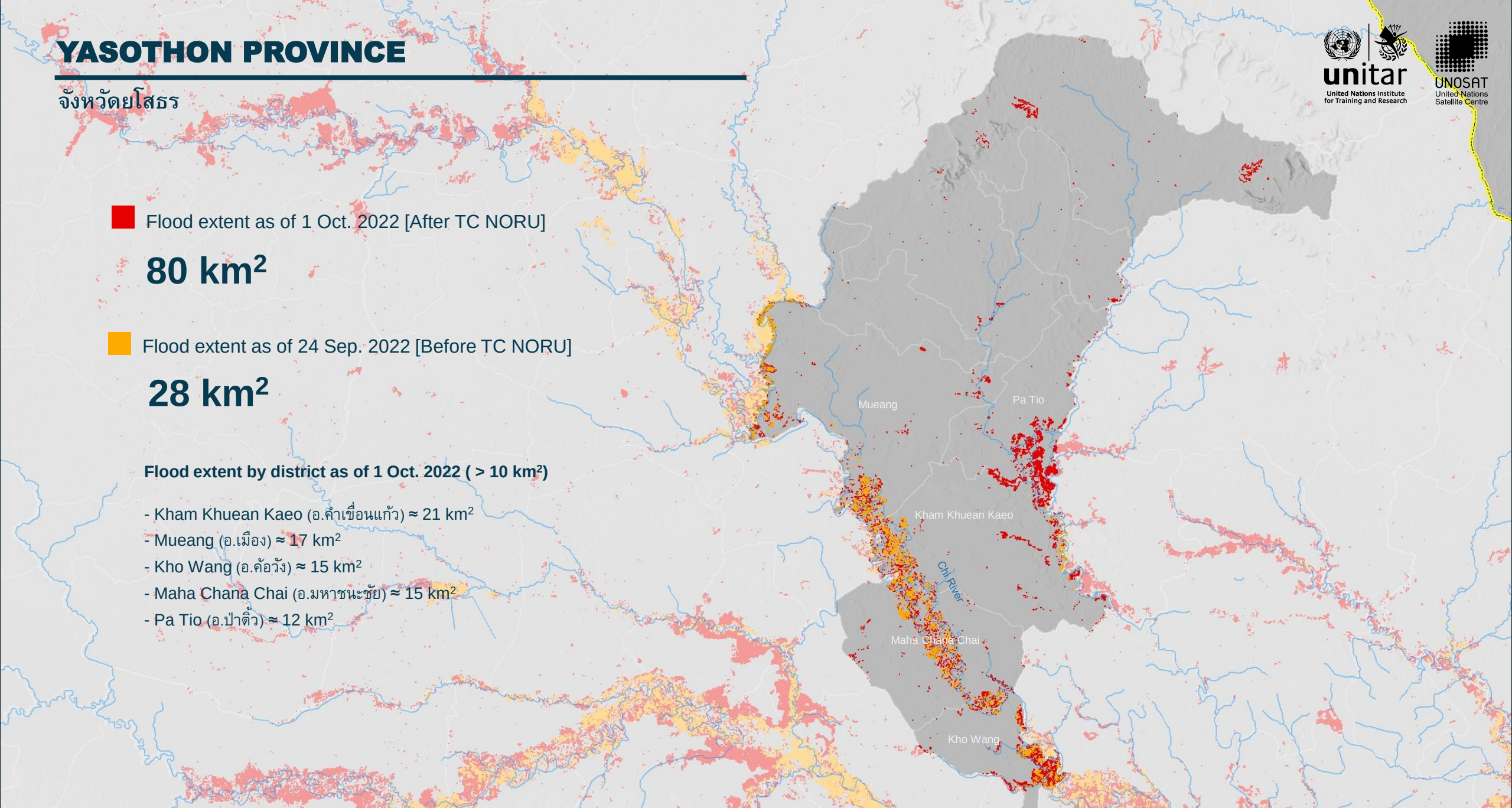
80 km²

 Flood extent as of 24 Sep. 2022 [Before TC NORU]

28 km²

Flood extent by district as of 1 Oct. 2022 (> 10 km²)

- Kham Khuean Kaeo (อ.คำเขื่อนแก้ว) ≈ 21 km²
- Mueang (อ.เมือง) ≈ 17 km²
- Kho Wang (อ.ค้อวัง) ≈ 15 km²
- Maha Chana Chai (อ.มหาชนะชัย) ≈ 15 km²
- Pa Tio (อ.ป่าติ้ว) ≈ 12 km²



AMNAT CHAROEN PROVINCE

จังหวัดอำนาจเจริญ

■ Flood extent as of 1 Oct. 2022 [After TC NORU]

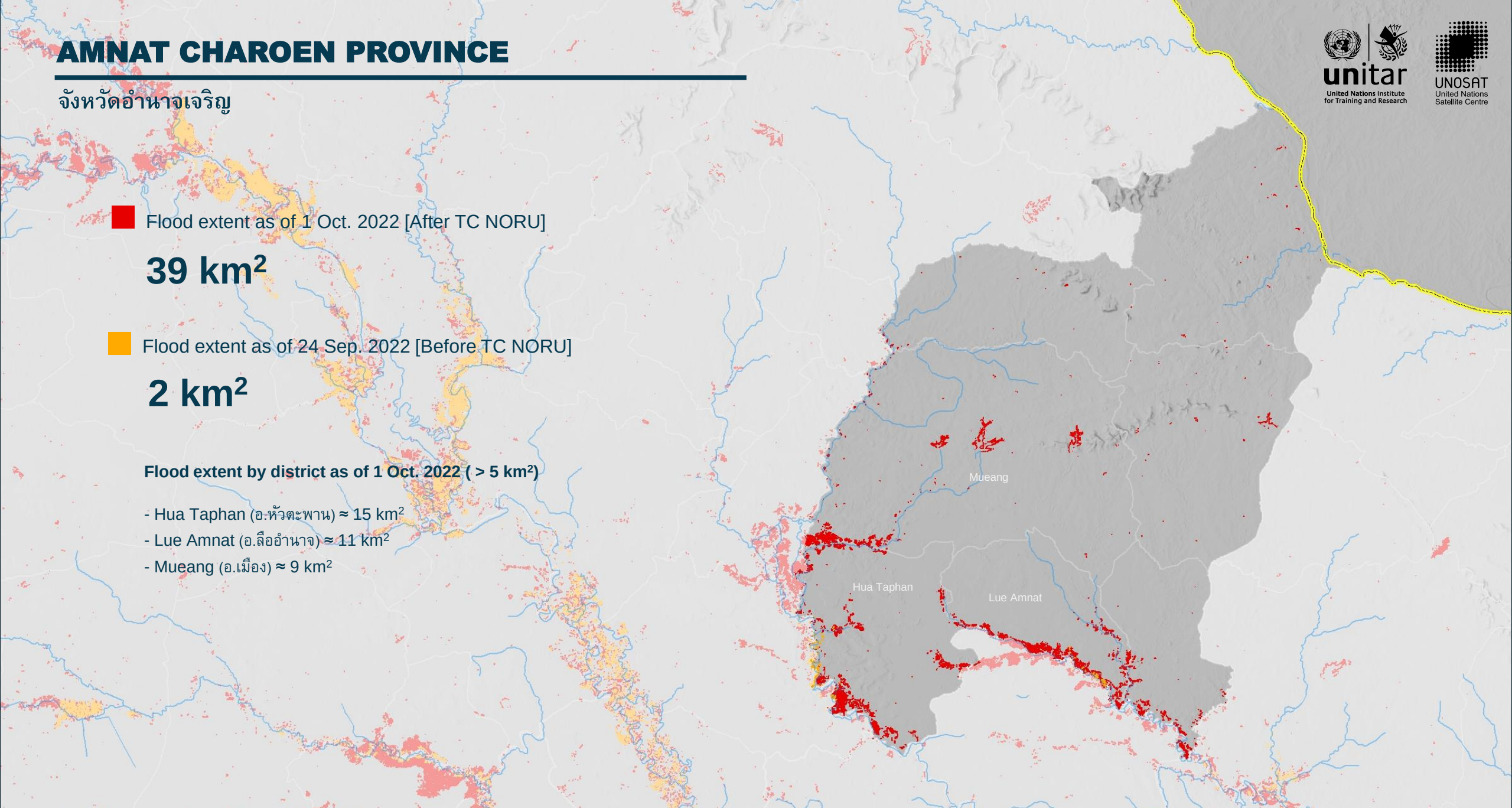
39 km²

■ Flood extent as of 24 Sep. 2022 [Before TC NORU]

2 km²

Flood extent by district as of 1 Oct. 2022 (> 5 km²)

- Hua Taphan (อ.หัวตะพาน) ≈ 15 km²
- Lue Amnat (อ.ลืออำนาจ) ≈ 11 km²
- Mueang (อ.เมือง) ≈ 9 km²



UBON RATCHATHANI PROVINCE

จังหวัดอุบลราชธานี

■ Flood extent as of 1 Oct. 2022 [After TC NORU]

333 km²

■ Flood extent as of 24 Sep. 2022 [Before TC NORU]

84 km²

Flood extent by district as of 1 Oct. 2022 (> 20 km²)

- Khueang Nai (อ.เขื่องไน) ≈ 60 km²
- Mueang (อ.เมือง) ≈ 55 km²
- Warin Chamrap (อ.วารินชำราบ) ≈ 37 km²
- Don Mot Daeng (อ.ดอนมดแดง) ≈ 27 km²
- Det Udom (อ.เดชอุดม) ≈ 25 km²
- Muang Sam Sip (อ.ม่วงสามสิบ) ≈ 20 km²

SI SA KET PROVINCE

จังหวัดศรีสะเกษ

■ Flood extent as of 1 Oct. 2022 [After TC NORU]

450 km²

■ Flood extent as of 24 Sep. 2022 [Before TC NORU]

170 km²

Flood extent by district as of 1 Oct. 2022 (> 20 km²)

- Rasi Salai (อ.ราษีไศล) ≈ 70 km²
- Kanthararom (อ.กันทรารมย์) ≈ 70 km²
- Mueang (อ.เมือง) ≈ 60 km²
- Prang Ku (อ.ปรางค์กู่) ≈ 55 km²
- Khukhan (อ.ขุขันธ์) ≈ 36 km²
- Uthumphon Phisai (อ.อุทุมพรพิสัย) ≈ 30 km²

SURIN PROVINCE

จังหวัดสุรินทร์

 Flood extent as of 1 Oct. 2022 [After TC NORU]

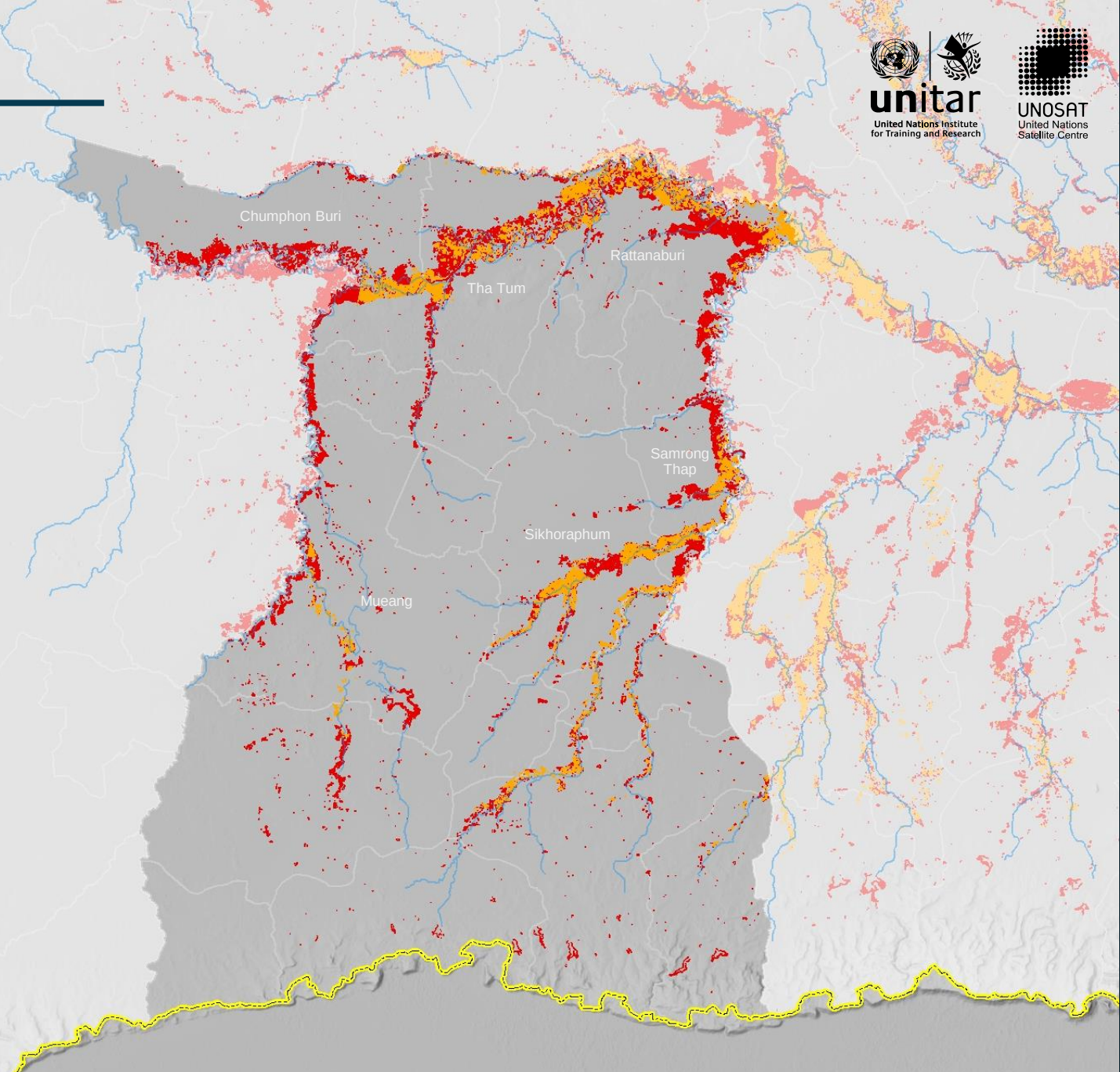
340 km²

 Flood extent as of 24 Sep. 2022 [Before TC NORU]

125 km²

Flood extent by district as of 1 Oct. 2022 (> 20 km²)

- Rattanakburi (อ.รัตนบุรี) ≈ 80 km²
- Tha Tum (อ.ท่าตูม) ≈ 70 km²
- Samrong Thap (สำโรงทาบ) ≈ 42 km²
- Sikhoraphum (อ.ศีขรภูมิ) ≈ 42 km²
- Chumphon Buri (อ.ชุมพวง) ≈ 32 km²
- Mueang (อ.เมือง) ≈ 25 km²



SUMMARY OF FINDINGS

- Based on satellite observations from 24 September 2022 and 1 October 2022 over the southern parts of the NE region, the overall flood waters extent situation appears to be increasing in Roi Et, Yasothon, Amnat Charoen, Ubon Ratchathani, Si sa ket and Surin provinces.

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Data sources:

(1) Satellite Images

Satellite Data : Sentinel-1

Imagery Dates : 01 Oct. 2022 (11:13 UTC)

Resolution: 10 m

Copyright: Contains modified Copernicus Sentinel Data [2022]

Source: ESA

(2) Flood extent data as of 24 Sep. 2022

Source: GISTDA

(3) Ancillary data

Administrative boundary : Royal Thai Survey Department

Cyclone track: Joint Research Centre (JRC)

Analysis: United Nations Satellite Centre (UNOSAT) Machine

learning method

Production: United Nations Satellite Centre (UNOSAT)



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