

29 Sep 2021

#### PRELIMINARY SATELLITE-DERIVED FLOOD ASSESSMENT



Chaiyaphum Province, Thailand

Status: Increased water level and inundated structures and agriculture areas observed

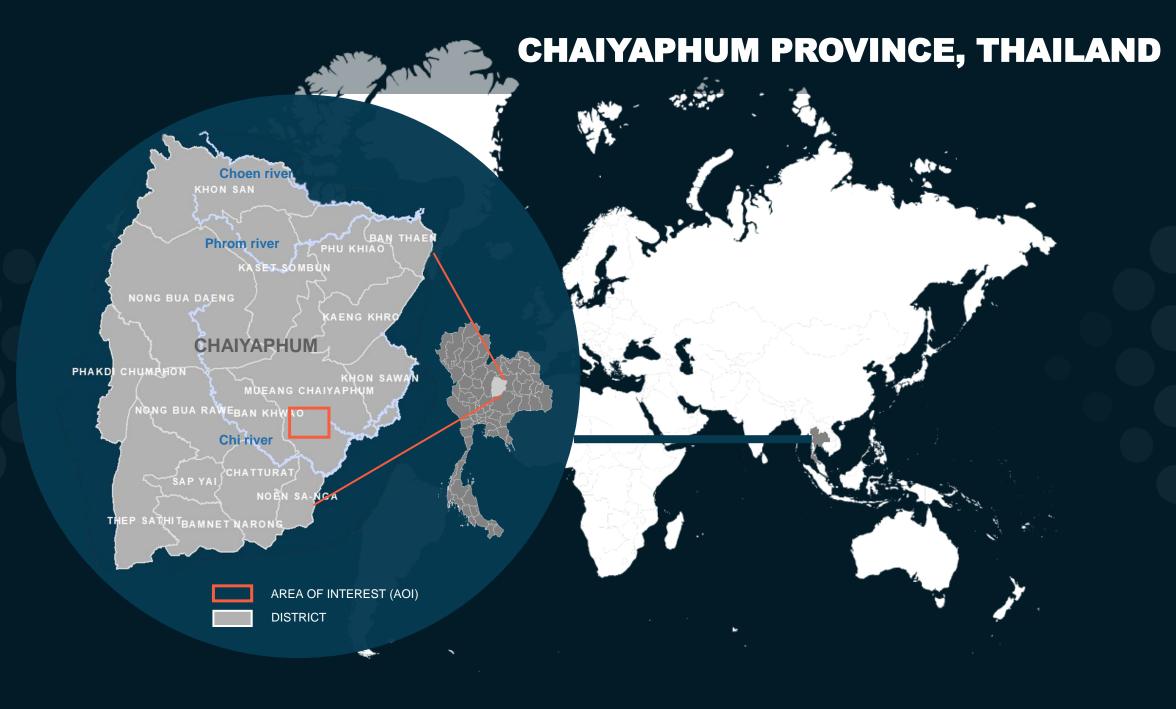


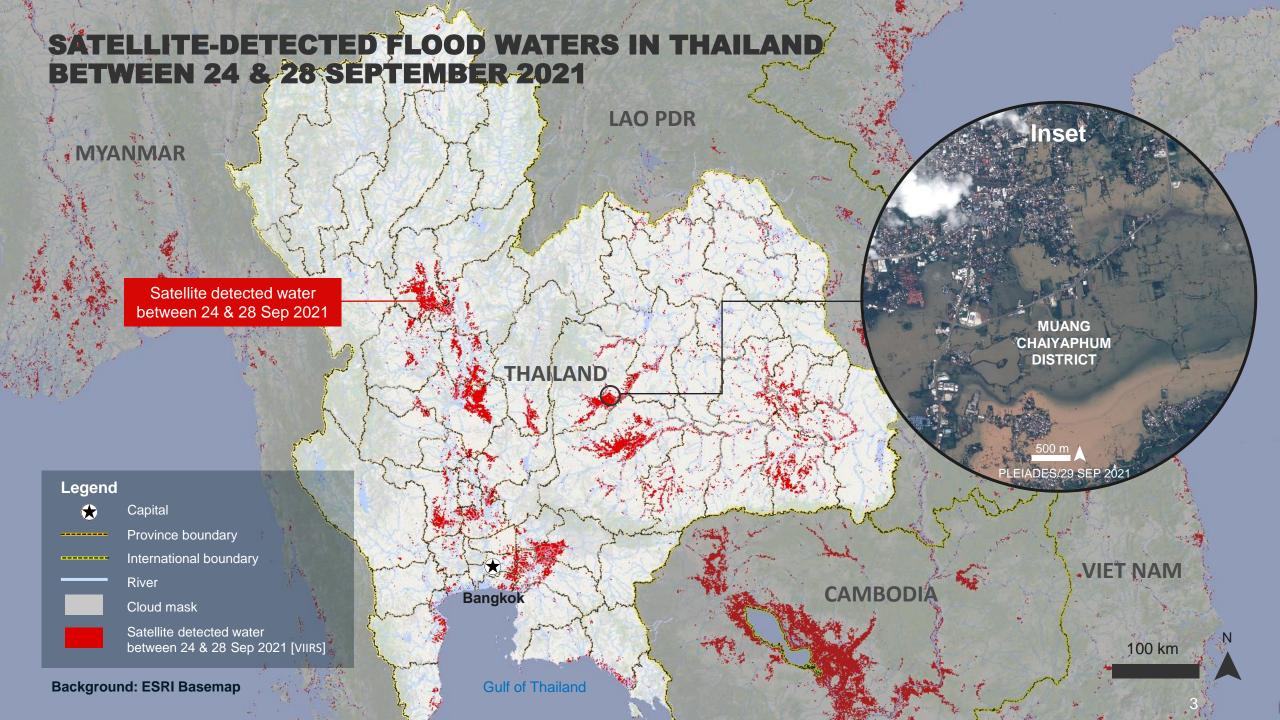














### AOI 1-1 NAI MUEANG SUB-DISTRICT, MUANG CHAIYAPHUM DISTRICT

Image center: 102°1'43.111"E 15°47'47.895"N







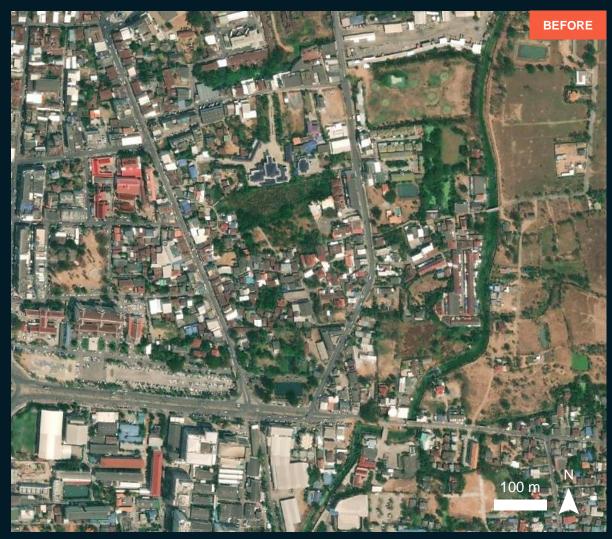


### AOI 1-2 NAI MUEANG SUB-DISTRICT, MUANG CHAIYAPHUM DISTRICT

Image center: 102°2'11.908"E 15°48'30.889"N









**ESRI** Basemap

Pleiades /29 Sep 2021



# AOI 2-1 PHON THONG SUB-DISTRICT, MUANG CHAIYAPHUM DISTRICT

Image center: 102°4'18.969"E 15°48'56.958"N









ESRI Basemap

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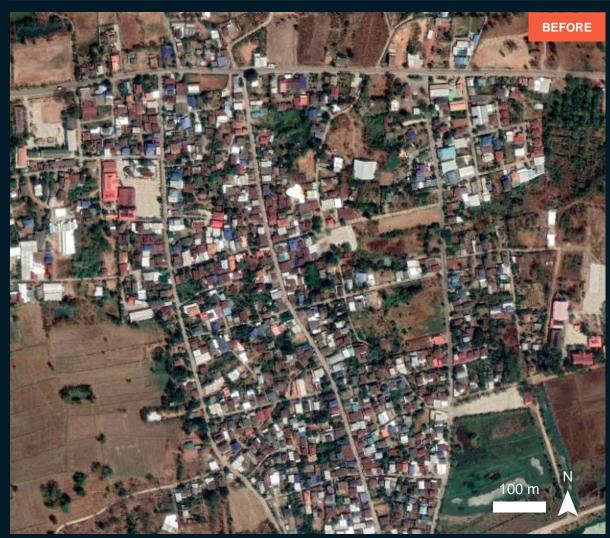


### AOI 3-1 NONG NA SAENG SUB-DISTRICT, MUANG CHAIYAPHUM DISTRICT

Image center: 102°0'21.357"E 15°45'47.697"N



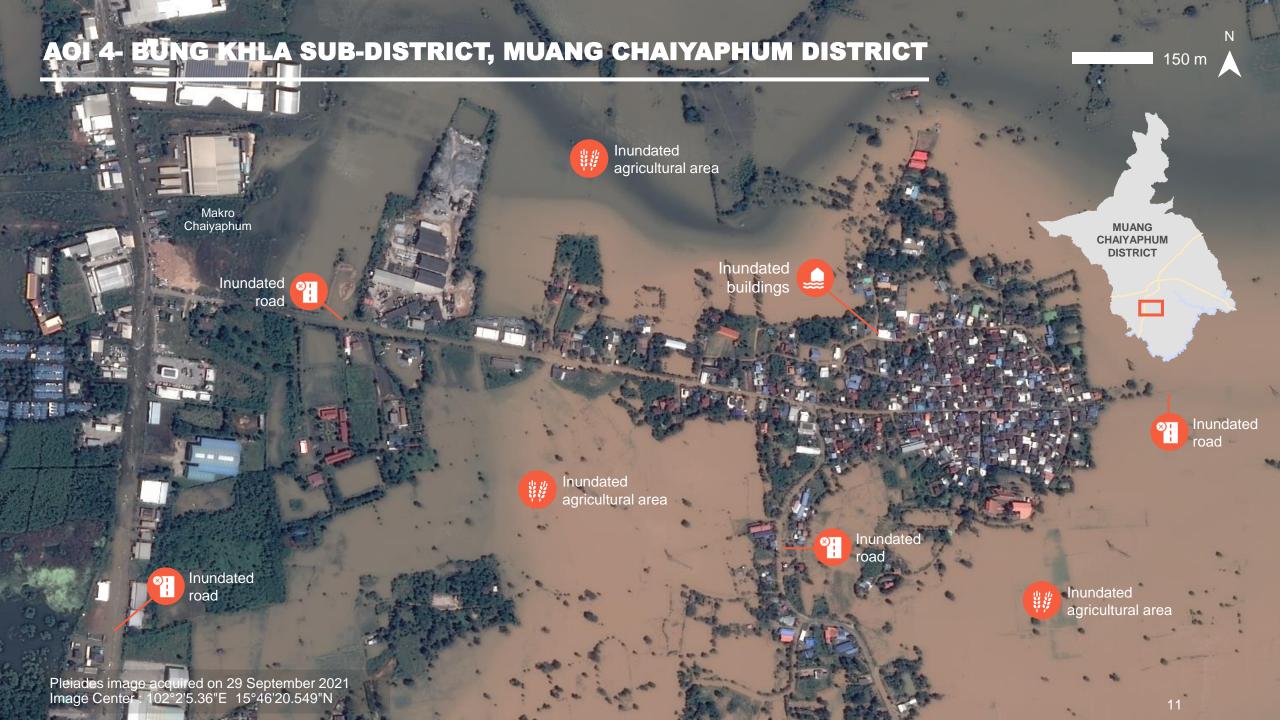






**ESRI** Basemap

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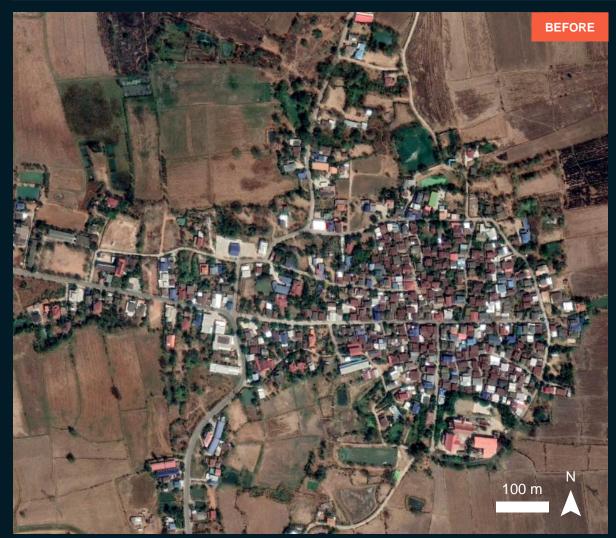


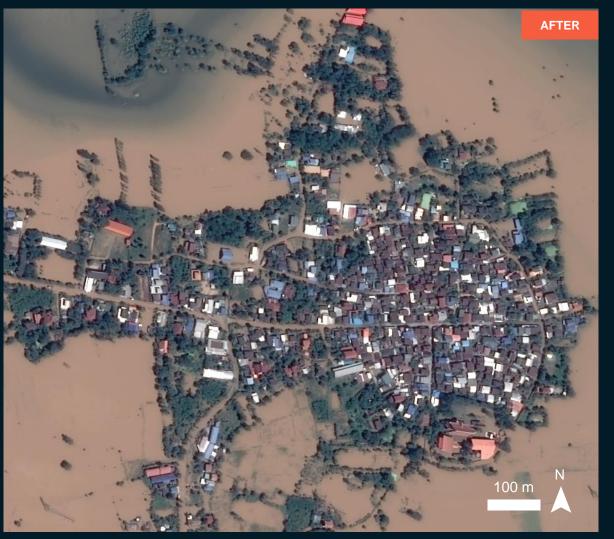
# AOI 4-1 BUNG KHLA SUB-DISTRICT, MUANG CHAIYAPHUM DISTRICT

Image center: 102°2'20.154"E 15°46'18.997"N









ESRI Basemap

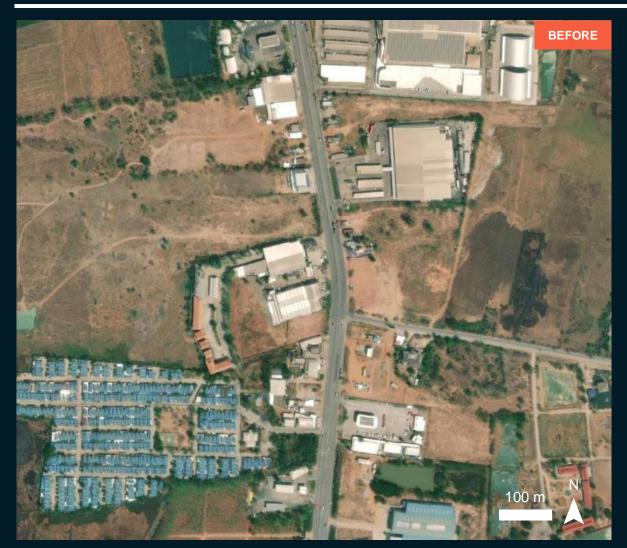
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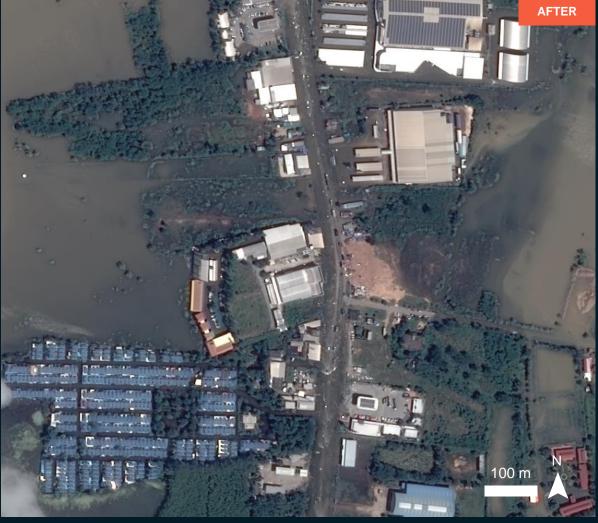
### AOI 4-2 CHILONG AND NONG NA SAENG SUB-DISTRICTS, MUANG CHAIYAPHUM DISTRICT

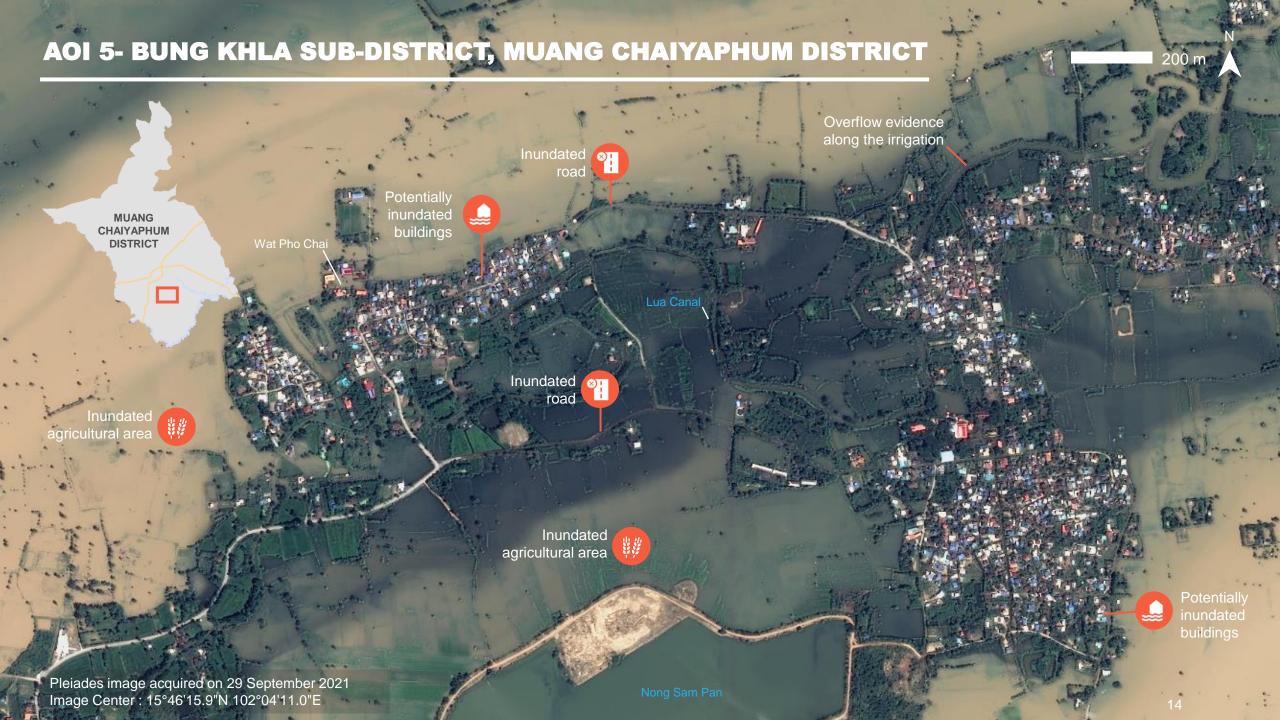
Image center: 102°1'32.929"E 15°46'27.927"N











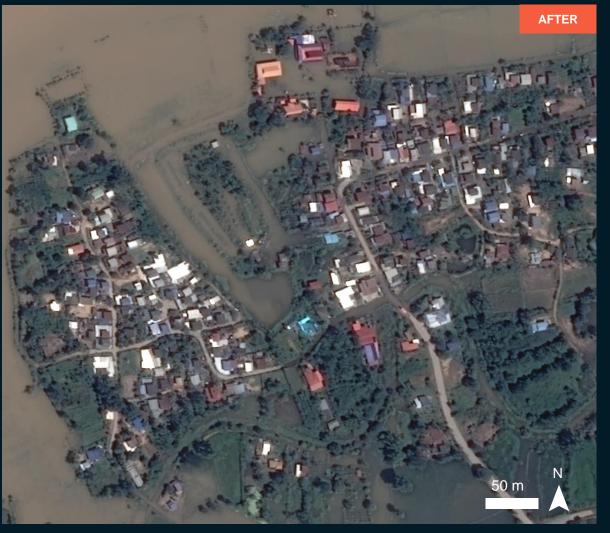
# AOI 5-1 BUNG KHLA SUB-DISTRICTS, MUANG CHAIYAPHUM DISTRICT

Image center: 102°3'34.413"E 15°46'19.824"N









ESRI Basemap

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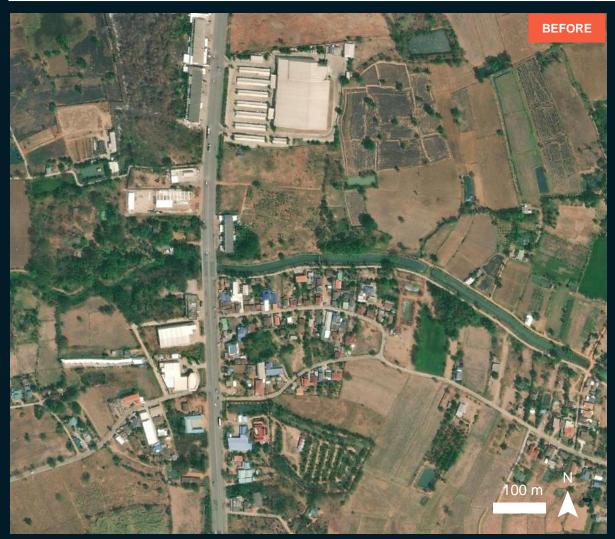


# AOI 6-1 NONG NA SAENG SUB-DISTRICTS, MUANG CHAIYAPHUM DISTRICT

Image center: 102°1'31.782"E 15°45'10.35"N









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# AOI 6-2 BUNG KHLA SUB-DISTRICTS, MUANG CHAIYAPHUM DISTRICT

Image center: 102°2'17.051"E 15°45'2.975"N









**ESRI** Basemap

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#### **SUMMARY OF FINDINGS**



- Increased water level and widespread inundated agricultural areas observed near the river and canal in Muang Chaiyaphum district as of 29 Sep 2021
- Inundated roads and buildings observed in all AOIs in Muang Chaiyaphum district as of 29 Sep 2021
- Overflow evidence along the irrigation canals observed in all AOIs in Muang Chaiyaphum district as of 29 Sep 2021

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#### Data sources:

(1) Satellite Image (Post-event)

Pleiades / 29 September 2021 / 10:42 local time Copyright: CNES (2021), distribution Airbus D&S Source : Airbus DS

NOAA-20 (VIIRS) / Between 24 & 28 September 2021

Resolution: 375m

Copyright: NOAA/Suomi NPP

Source: NOAA

(2) Satellite Image (Pre-event)

**ESRI** Basemap

(3) Ancillary data

Administrative boundaries: Royal Thai Survey Department

Road: Open Street Map

Waterways: Open Street Map

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







**UNOSAT,** United Nations Institute for Training and Research (UNITAR)
7 bis, Avenue de la Paix, CH-1202 Geneva 2, Switzerland

T +41 22 917 4720 E unosat@unitar.org www.unosat.org