UKRAINE

KHERSONSKA OBLAST

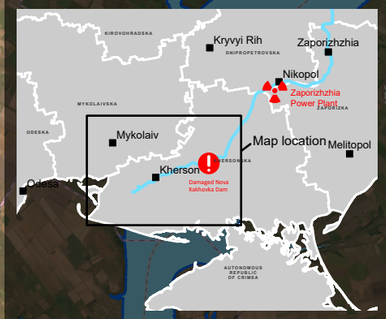
IMAGERY ANALYSIS: 06 TO 09/06/2023 PUBLISHED 09/06/2023 V1.

ANALYSED AREA	FLOOD EXTENT [6-8 JUNE 2023]	POPULATION POTENTIALLY AFFECTED
19,000km²	~620km²	~110,000

unitar United Nations Institute for Training and Research

UNOSAT United Nations Satellite Centre

FLOOD
FL20230606UKR



Cumulative Satellite Detected Waters and Impact over Khersonska Oblast in Ukraine between 06 and 09 June 2023

This map illustrates cumulative satellite-detected water using ICEYE images Sentinel-3 images acquired between the 06th and the 09th of June 2023. Within the analysed area of 19,000 km², about 620 km² of land appear to be flooded. Based on Worldpop population data from 2020 and the flood water extent, ~110,000 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 the United Nations Satellite Centre (UNOSAT).

Important note: Population data used for this estimate is from 2020. Current population count is not available.

Legend

- Damaged dam wall
- Oblast boundary
- Region boundary
- Hromada boundary
- Dnipro River bed
- Reference water
- Flood extent [06 June at 08:30 UTC to 09 June at 08:52 UTC 2023]

Population potentially exposed to flood

- 0 - 200
- 201 - 700
- 701 - 2500
- 2501 - 25000
- 25001 - 67000

Flood extent (km²)

- 2 - 40
- 41 - 100
- 101 - 170

Map Scale for A3: 1:400,000

N 0 2.5 5 10 KM

Spatial Reference
Name: WGS 1984 UTM Zone 36N
PCS: WGS 1984 UTM Zone 36N
GCS: GCS WGS 1984
Datum: WGS 1984
Projection: Transverse Mercator
Central Meridian: 33.0000

Satellite Imagery (Post-event) : ICEYE
Imagery Date: 07 June 2023 at 12:18 UTC; 12:48 UTC & 13:01 UTC
Resolution: 4m
Copyright: Copyright in all ICEYE Products and Derivatives is and will remain held by ICEYE Oy
Source: ICEYE Oy.

Satellite Imagery (Post-event) : Sentinel-3
Imagery Date: 06 June 2023 at 08:30 UTC & 07 June 2023 at 08:04 UTC and and 09 June 2023 at 08:52 UTC
Resolution: 300 m
Copyright: Contains modified Copernicus Sentinel data [2023]
Source: ESA

Satellite Imagery (Post-event) : Sentinel-2
Imagery Date: 08 June 2023
Resolution: 10 m
Copyright: Contains modified Copernicus Sentinel data [2023]
Source: ESA

Reference water: Sentinel-2 / 03 & 05 June 2023
Resolution: 10 m
Copyright: Contains modified Copernicus Sentinel data [2023]
Source: ESA

Administrative boundaries: State Scientific Production Enterprise "Kartographia"
Population data: WorldPop Constrained [2020]

Populated place: OpenStreetMap
Road data: OpenStreetMap
Background: ESRI World Imagery

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