

Benefit and Value of Open data and Open knowledge

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Introduction



- Part of the **United Nations Institute for Training and Research (UNITAR)**
- Operational since 2001, recognized as the **United Nations Satellite Centre** in June 2021

Mandate:

“provide United Nations funds, programmes and specialized agencies with satellite analysis, training and capacity development, at their request, as well as to continue supporting Member States with satellite imagery analysis over their respective territories and to provide training and capacity development in the use of geospatial information technologies”

Operational Pillars



Training and Capacity Development

Hands-on technical training, awareness raising and technical backstopping

Satellite Analysis

Satellite imagery derived geospatial products

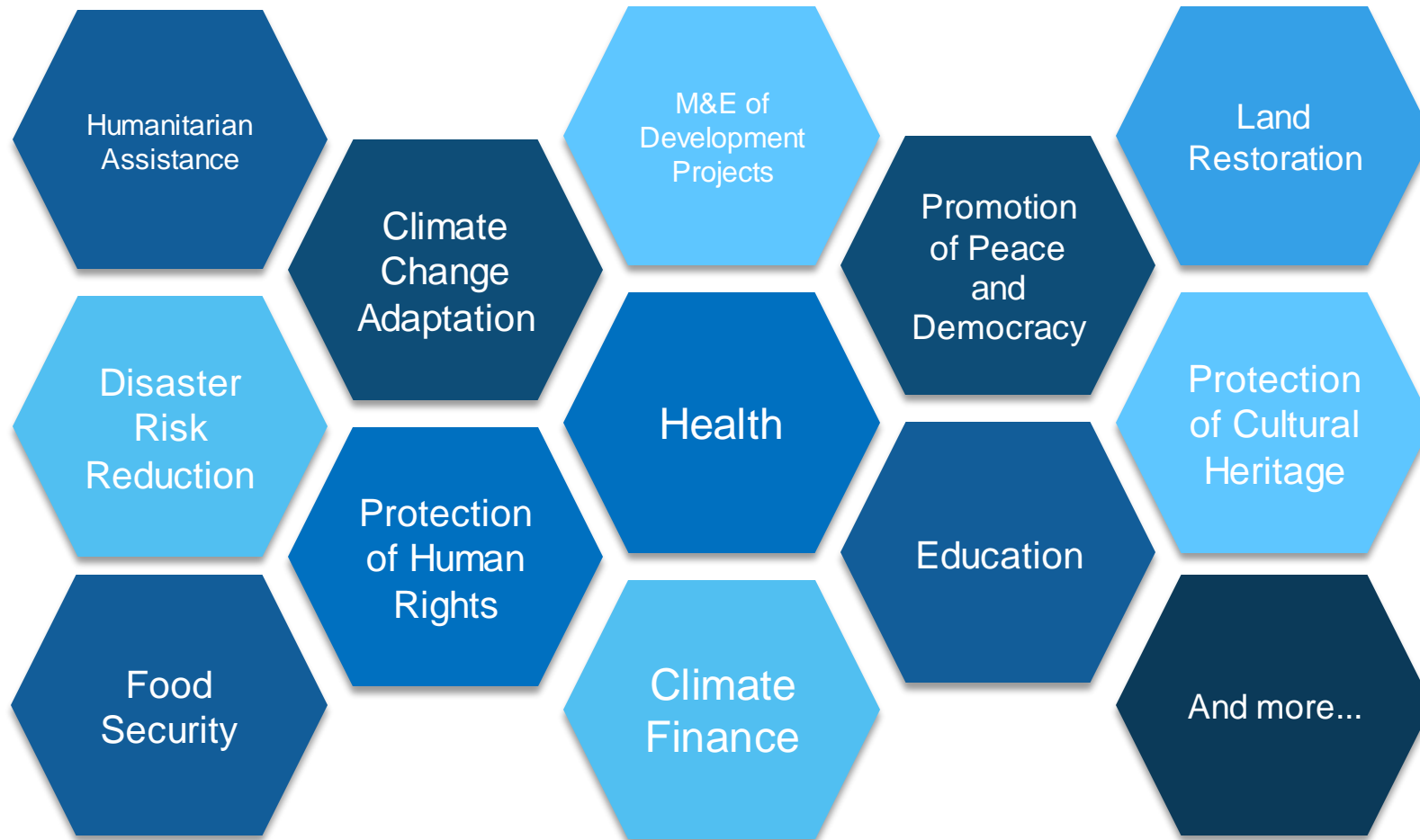


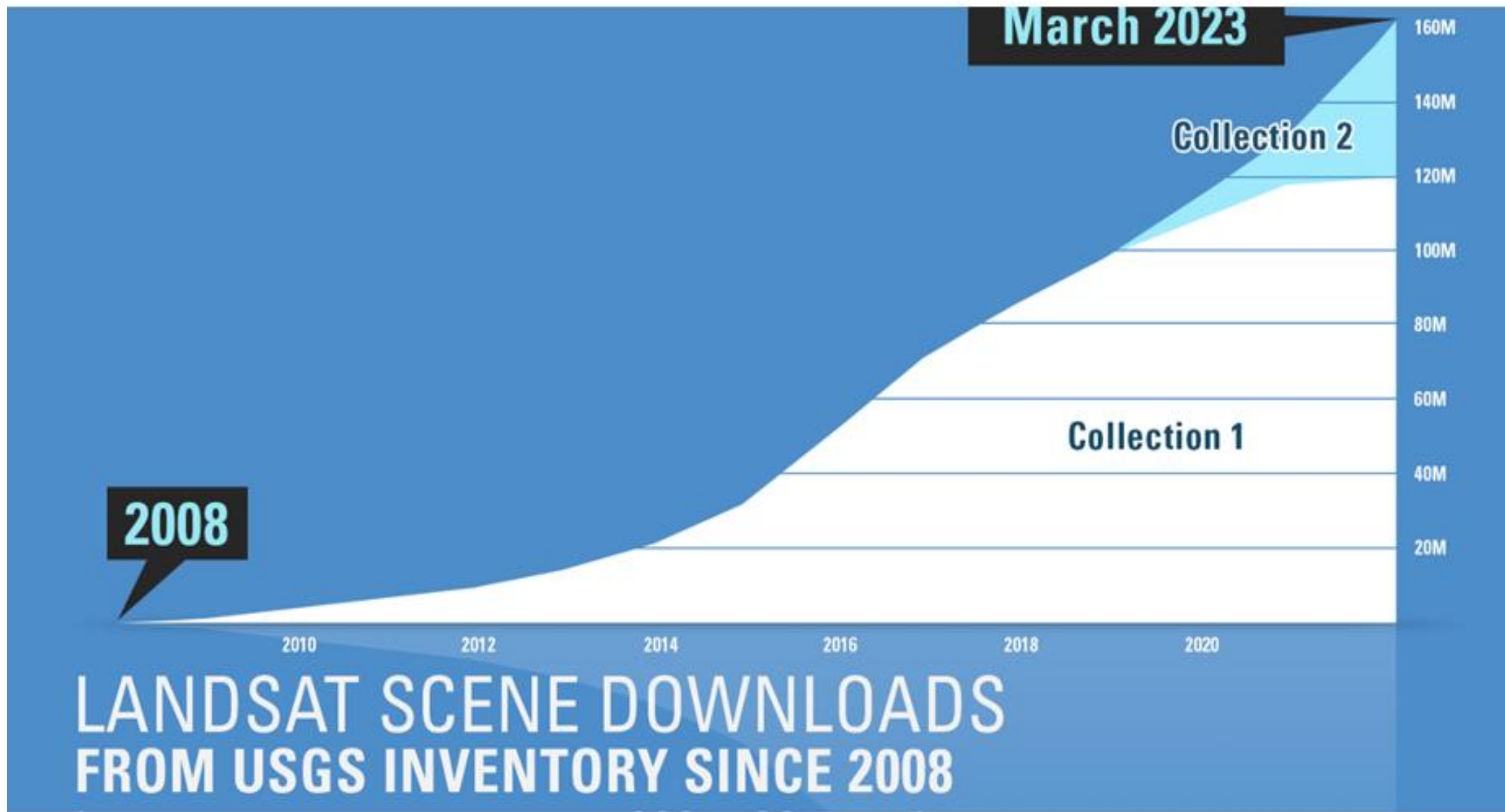
Applied Research and Innovation

EO, AI, Machine Learning, Big Data Analytics, crowdsourcing

UNOSAT

Thematic Areas





LANDSAT SCENE DOWNLOADS FROM USGS INVENTORY SINCE 2008

Statistics of all Data Hub Services since start of operations

Registered Users



704,410

Users Downloads
Volume



549.47 PB

Published Products



62,315,383

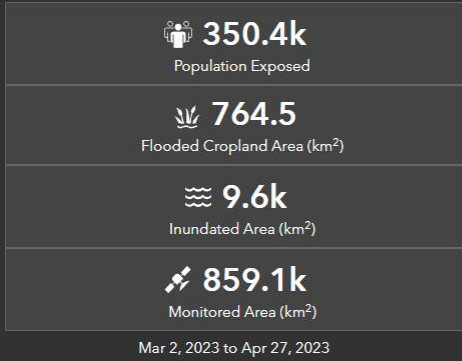
Open Access Hub Availability
over the past Month



99.9%

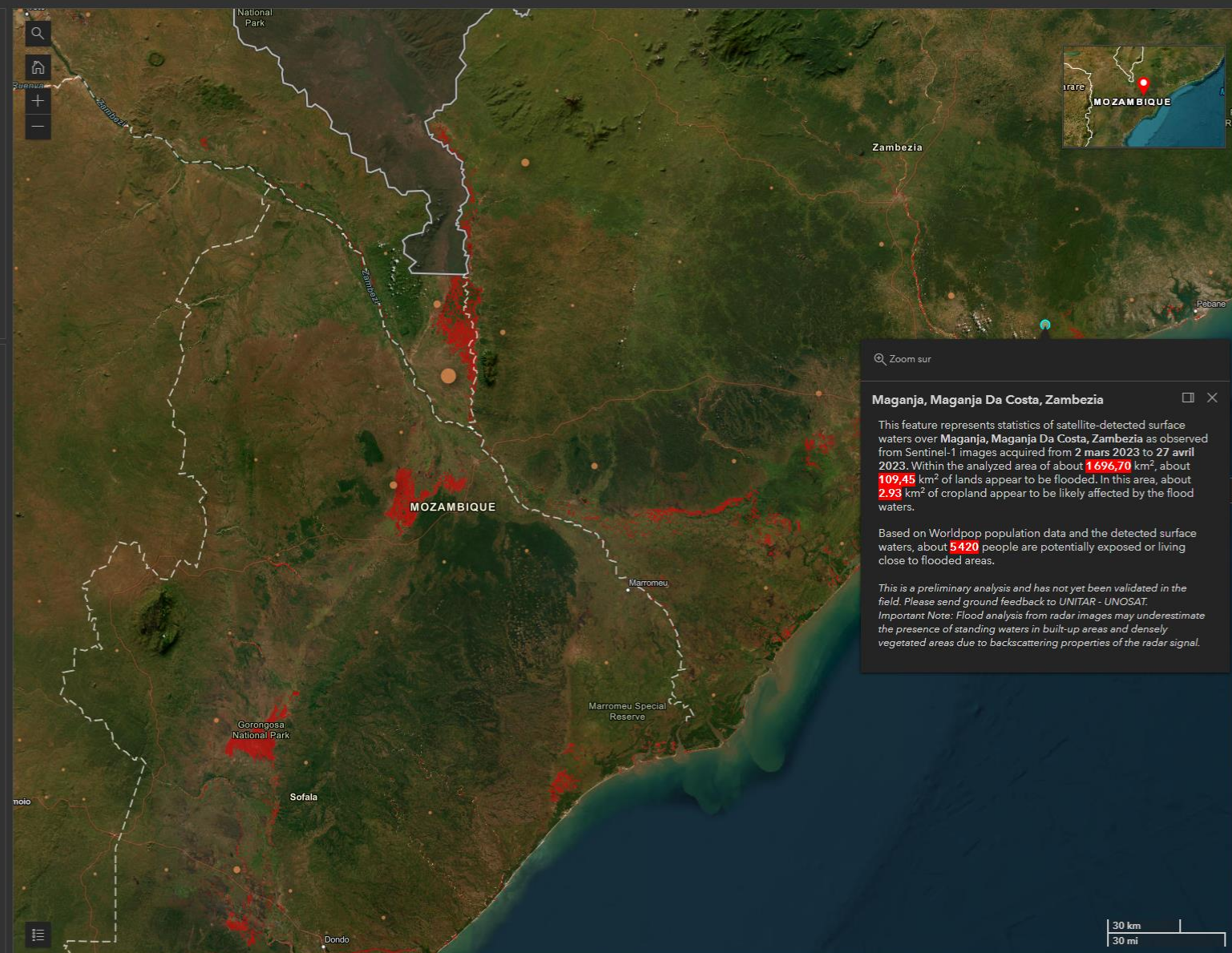


Summary Statistics

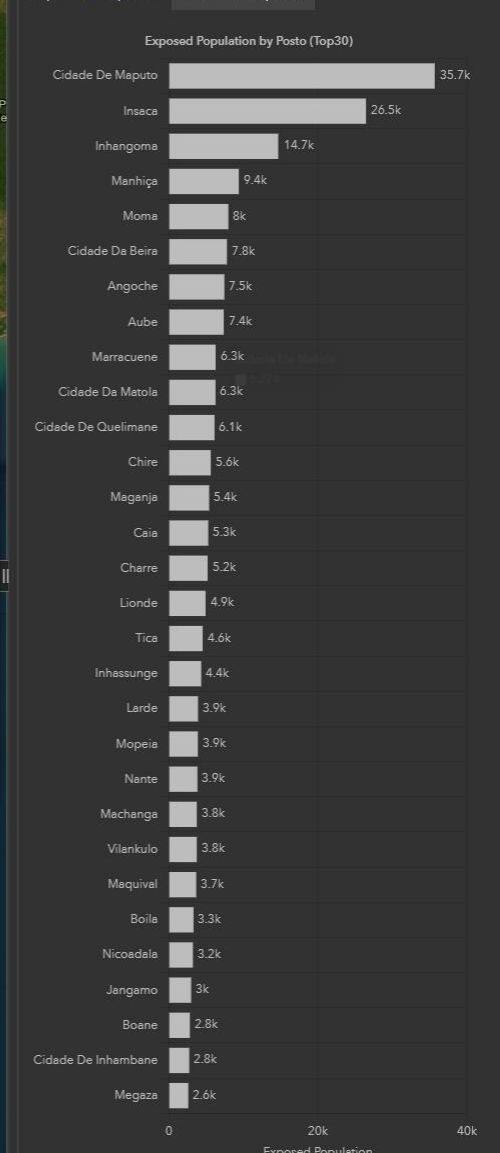


Map Layers

- UN-ASIGN Photo
- Flood Exposure By Admin
- Monitored Area
- Inundated Area
- World Countries
- European Space Agency WorldCover 2020 Land Cover



Population Exposed



Feedback

“The insights from satellite image analysis provided by UNOSAT helped the government and the UN understand the extent of flooding, potential hotspots across provinces, the number of people impacted, and the nature of immediate support required at the community level”

Gita Sabharwal, UN Resident Coordinator of Thailand



Storymap

<https://storymaps.arcgis.com/stories/81a75d0c1b76448ebfde7d0a24536530>

UKRAINE

KHERSONSKA OBLAST

IMAGERY ANALYSIS: 06/06/2023 PUBLISHED 06/06/2023 V1.0

ANALYSED AREA
19,000 km²



FLOOD EXTENT
[6 JUNE 2023]
120 km²



FLOOD
FL20230606UKR



Satellite detected water extent over Khersonska Oblast, Ukraine as of 06 June 2023

This map illustrates satellite-detected surface waters over Khersonska Oblast, Ukraine, observed from a Sentinel-3 image acquired on 6 June 2023 at 08:39 UTC and a Sentinel-2 image acquired on 3 & 5 June 2023. Within the analysed area of 19,000 km², about 120 km² of land appears to be flooded.

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

Legend

- Damaged Dam
- Town
- Village
- Primary road
- Secondary road
- Tertiary road
- Oblast boundary
- Region boundary
- Pre-Flood water extent [05 June 2023]
- Flood extent [06 June 2023, 08:30 UTC]

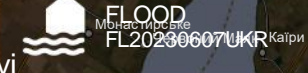
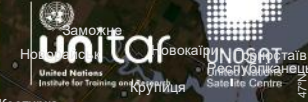
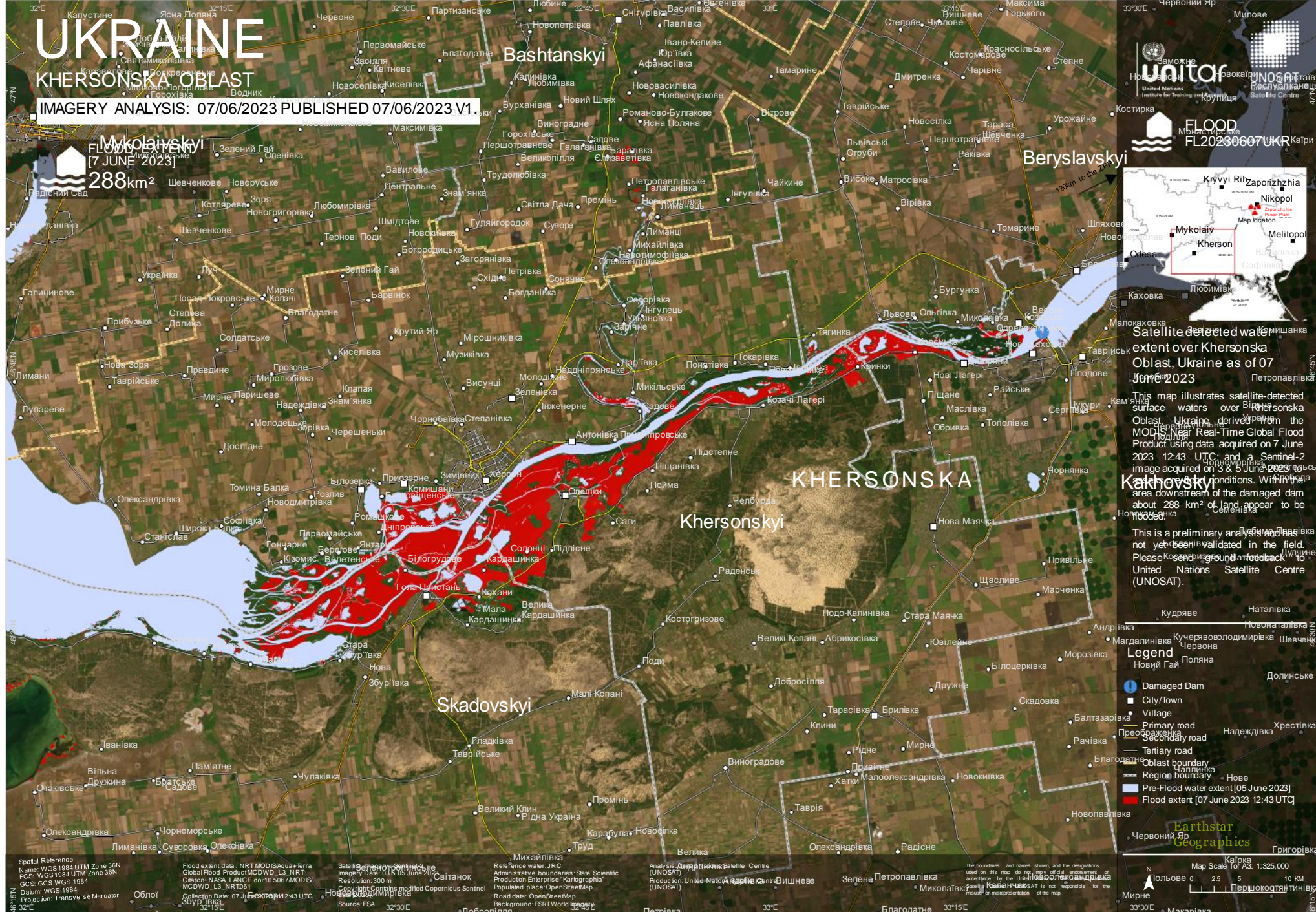
Earthstar
Geographics

UKRAINE

KHERSONSKA OBLAST

IMAGERY ANALYSIS: 07/06/2023 PUBLISHED 07/06/2023 V1.

Mykolaivskiy
FLOOD EXTENT
[7 JUNE 2023]
288km²



Satellite detected water extent over KHERSONSKA Oblast, Ukraine as of 07 June 2023

This map illustrates satellite-detected surface waters over KHERSONSKA Oblast, Ukraine, derived from the MODIS Near Real-Time Global Flood Product using data acquired on 7 June 2023 12:43 UTC and a Sentinel-2 image acquired on 3 & 5 June 2023 under similar conditions. Within the area downstream of the damaged dam about 288 km² of land appear to be flooded.

This is a preliminary analysis and has not yet been validated in the field. Please contact us on www.facebook.com/UnitedNationsSatelliteCentre (UNOSAT).

- Legend**
- Damaged Dam
 - City/Town
 - Village
 - Primary road
 - Secondary road
 - Tertiary road
 - District boundary
 - Region boundary
 - Pre-Flood water extent [05 June 2023]
 - Flood extent [07 June 2023 12:43 UTC]

Earthstar Geographics



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