

# Dynamics of the Mezhgirske Reservoir Area Changes

The Mezhgirske Reservoir, with a volume of 50 million cubic meters, is the largest of the artificial reservoirs in Crimea that collect water from nearby sources. By 2023, the area of the reservoir has decreased by 26 times, which is only 4% of its area in 2009.



Due to the occupation of the Crimean Peninsula and the closure of water supply through the North Crimean Canal, the underground layers have become salinized, and there has been a significant reduction in irrigated agricultural land.



# Visualization of the Kakhovske Reservoir Before and After the Dam Explosion in ArcGIS Online



**Sentinel-2 Level-2A Satellite Image, visualization type: Agriculture with DRA, dated May 6, 2023**



**Sentinel-2 Level-2A Satellite Image, visualization type: Agriculture with DRA, dated July 5, 2023**



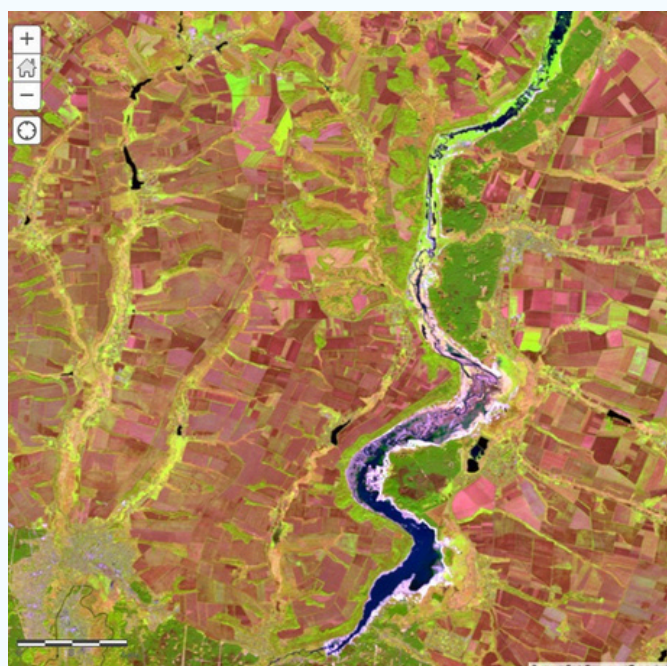
# Visualization of the Oskil Reservoir Before and After the Dam Explosion in ArcGIS Online

As a result of the war in Ukraine, the dam at the Oskil Reservoir was destroyed, causing the release of 355.5 million cubic meters of water.

This led to the death of a large number of fish, including rare species, flooding of the city of Sviatohirsk, and a rise in the water level of the Siverskyi Donets River.



**Sentinel-2 Level-2A Satellite Image, visualization type: Agriculture with DRA, dated March 29, 2022**



**Sentinel-2 Level-2A Satellite Image, visualization type: Agriculture with DRA, dated October 18, 2022**

# Visualization of the Irpin River Before and After the Dam Explosions in ArcGIS Online

As a result of the war in Ukraine, the dam on the Irpin River was damaged. This caused flooding of the floodplain for more than 20 kilometers upstream.



Sentinel-2 Satellite Image, dated February 26, 2022



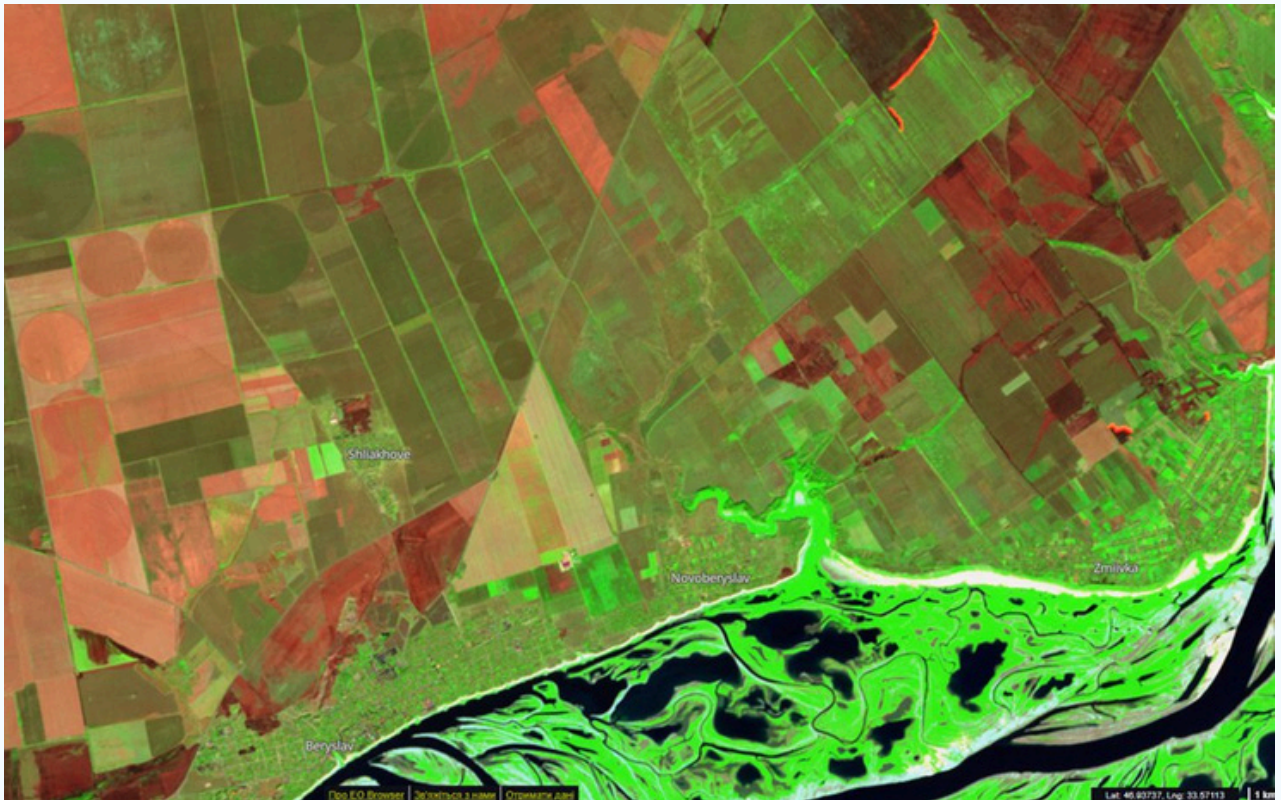
Sentinel-2 Satellite Image, dated March 3, 2022



# Areas Affected by Fire Due to Shelling

Beryslav, Kherson region, September 28, 2023.

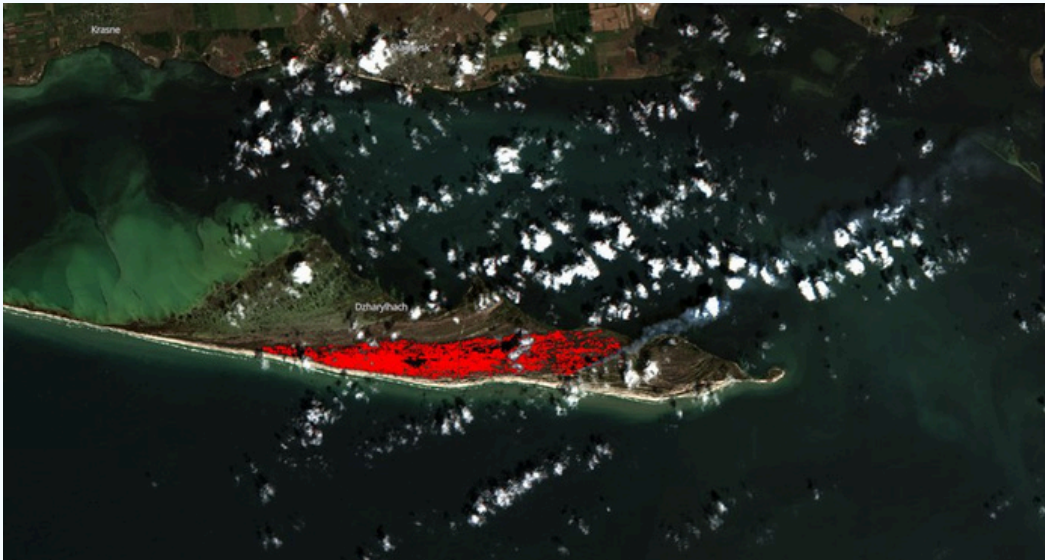
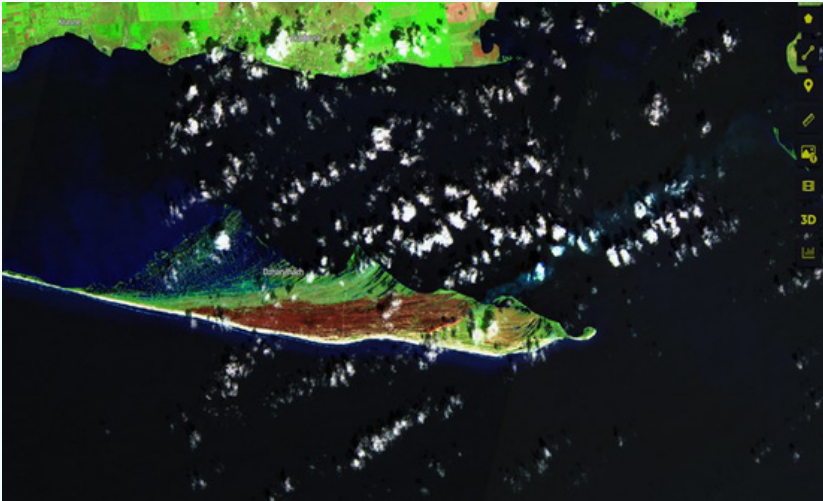
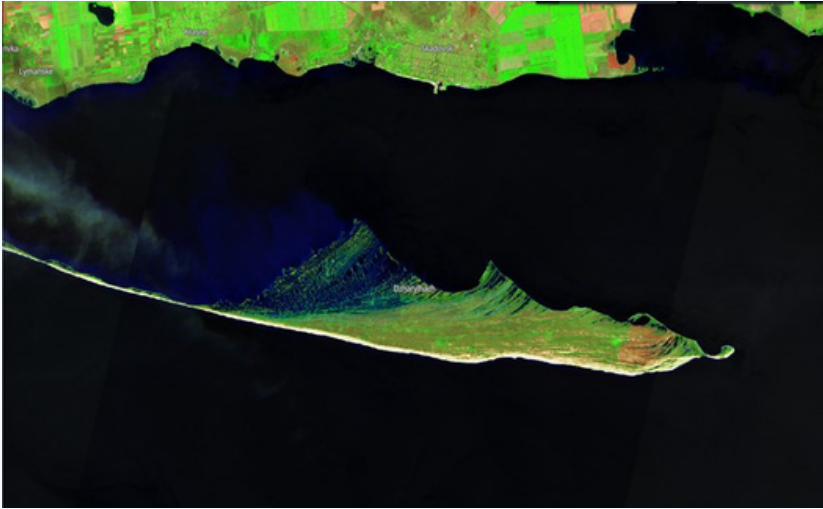
Analyzed using EO Browser with data from the Sentinel-2 satellite, Burned Area Index applied.





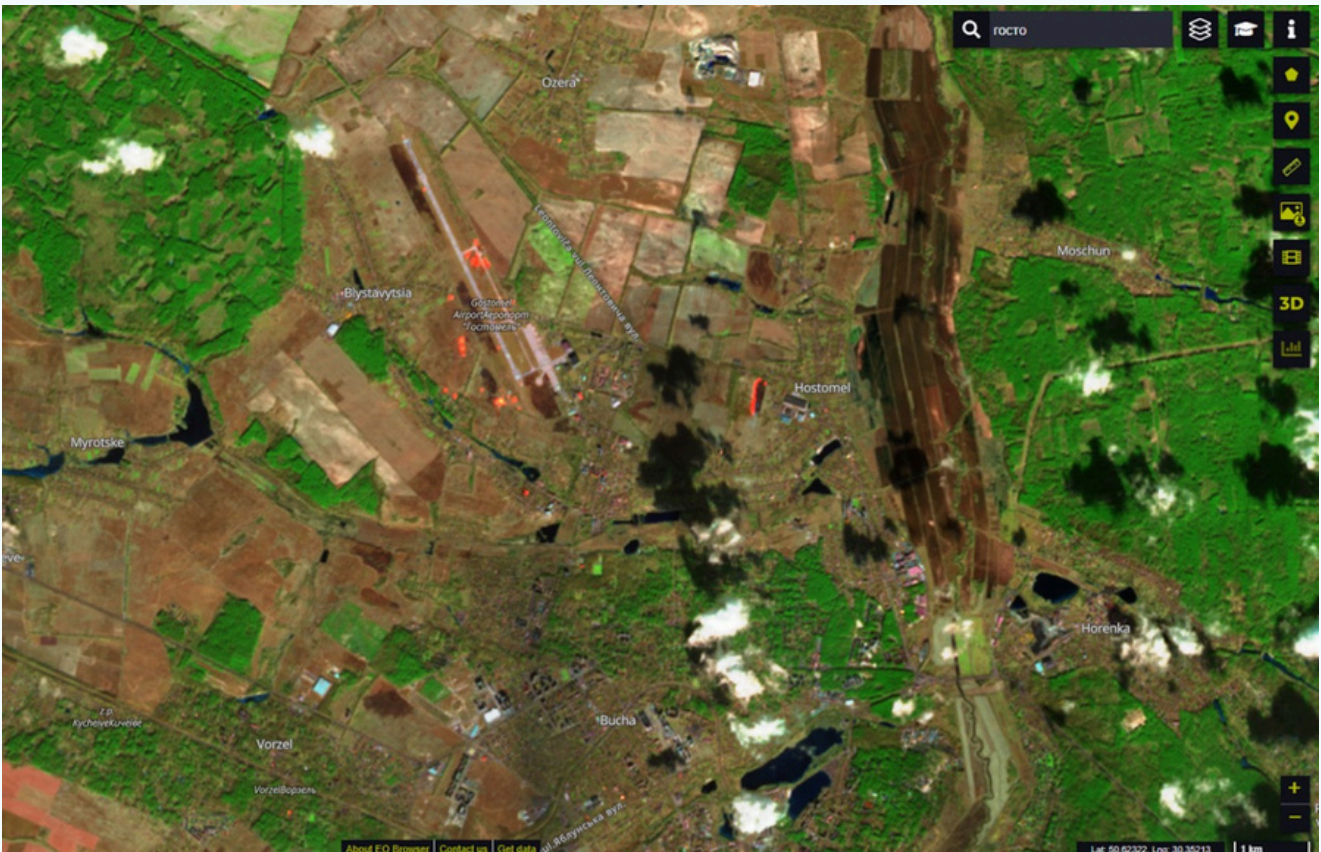
# Nearly a Week-Long Fire Due to the War on Dzharylhach Island in Kherson Region

The fire destroyed the entire protected area of the natural park, covering over 1,500 hectares. Dzharylhach Island, August 7, 2023





# Visualization of Fires Due to Military Actions in Hostomel, February 26, 2022



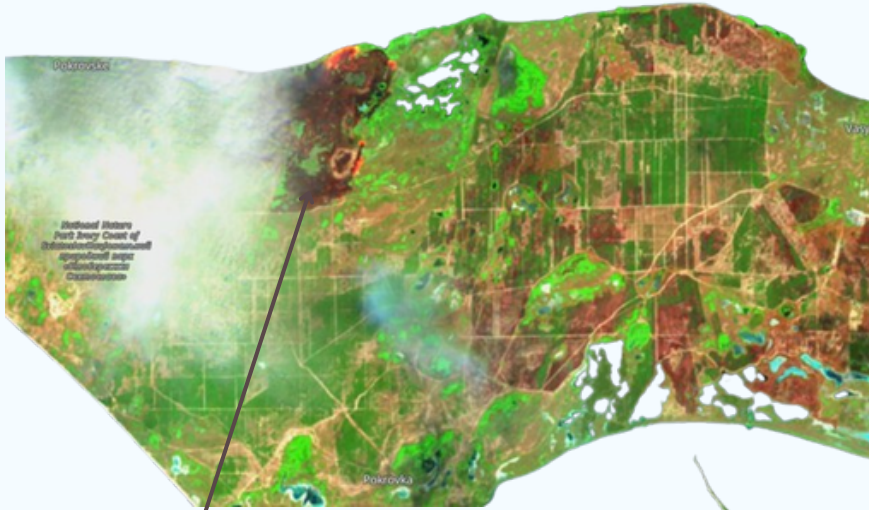
# Area Affected by Fire Due to Shelling 18 hectares in Chayky village, Kyiv region, April 7, 2022





# Kinburn Spit

The Kinburn Spit has turned into an ongoing fire, devastating a site of unique ecological significance. Fires have been continuously occurring here since 2022. Analyzed using EO Browser with data from the Sentinel-2 satellite in the SWIR channel.



August 15, 2023

Fires



August 22, 2023



# Craters from S-300 Strikes

Dovhenke village, Iziium district, Kharkiv region, December 14, 2022

Analyzed using World Imagery Wayback





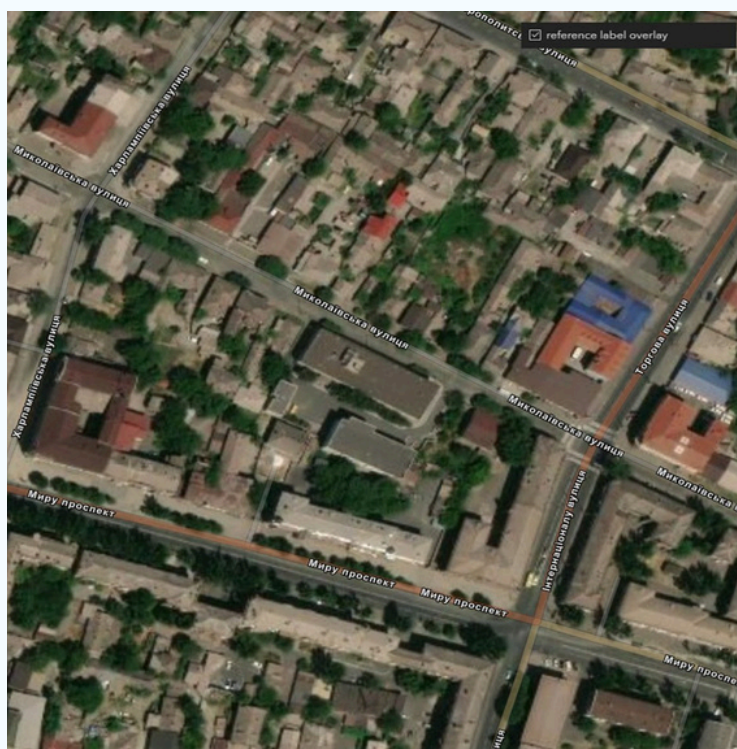
# Destruction from Shelling and Military Actions

Mariupol, Donetsk region

February 23, 2023



April 29, 2020





# Visualization of Fires Due to Shelling

Popasna, Luhansk region

September 29, 2020

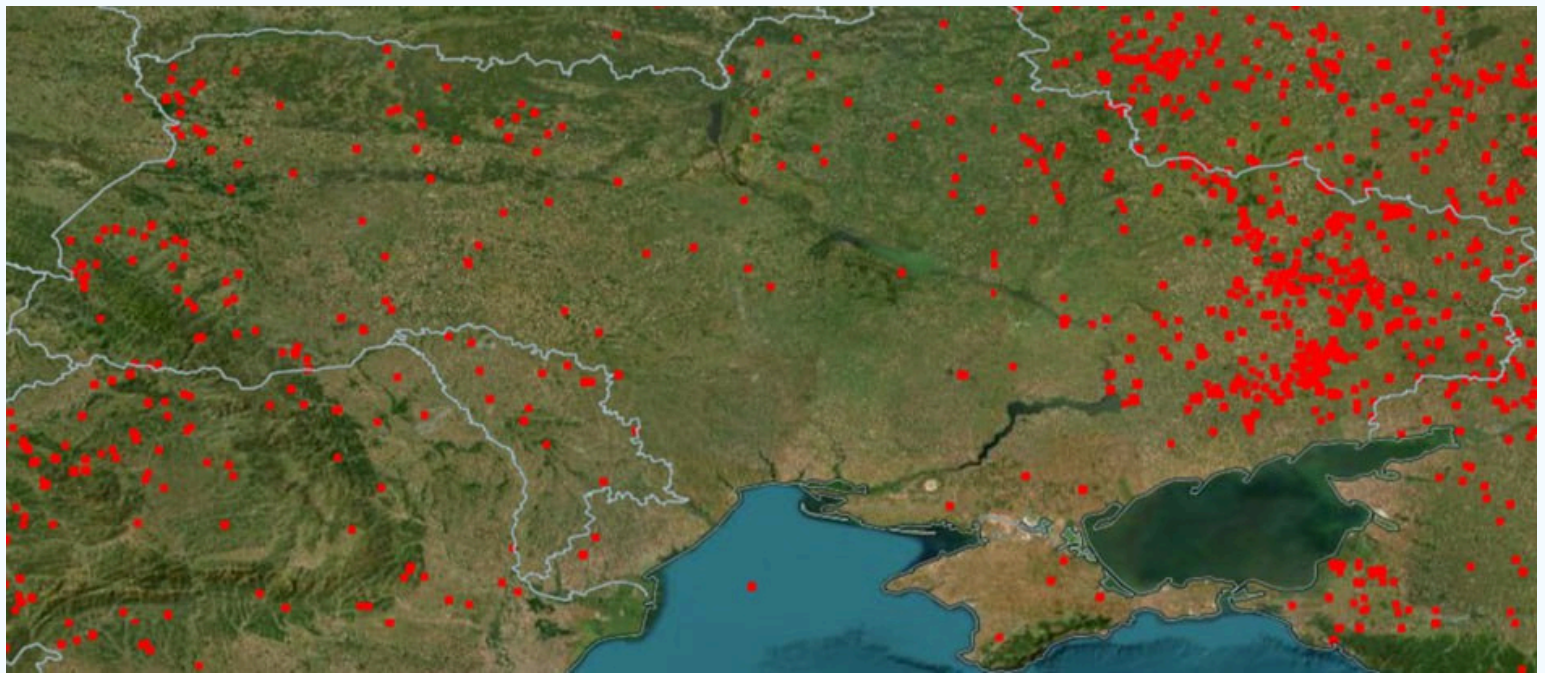


July 29, 2023





# Visualization of Active Fires in Ukraine in the Fire Information for Resource Management System (FIRMS) for April 2024



# Visualization of Light Pollution in Ukraine in NASA Worldview for November 2022

