

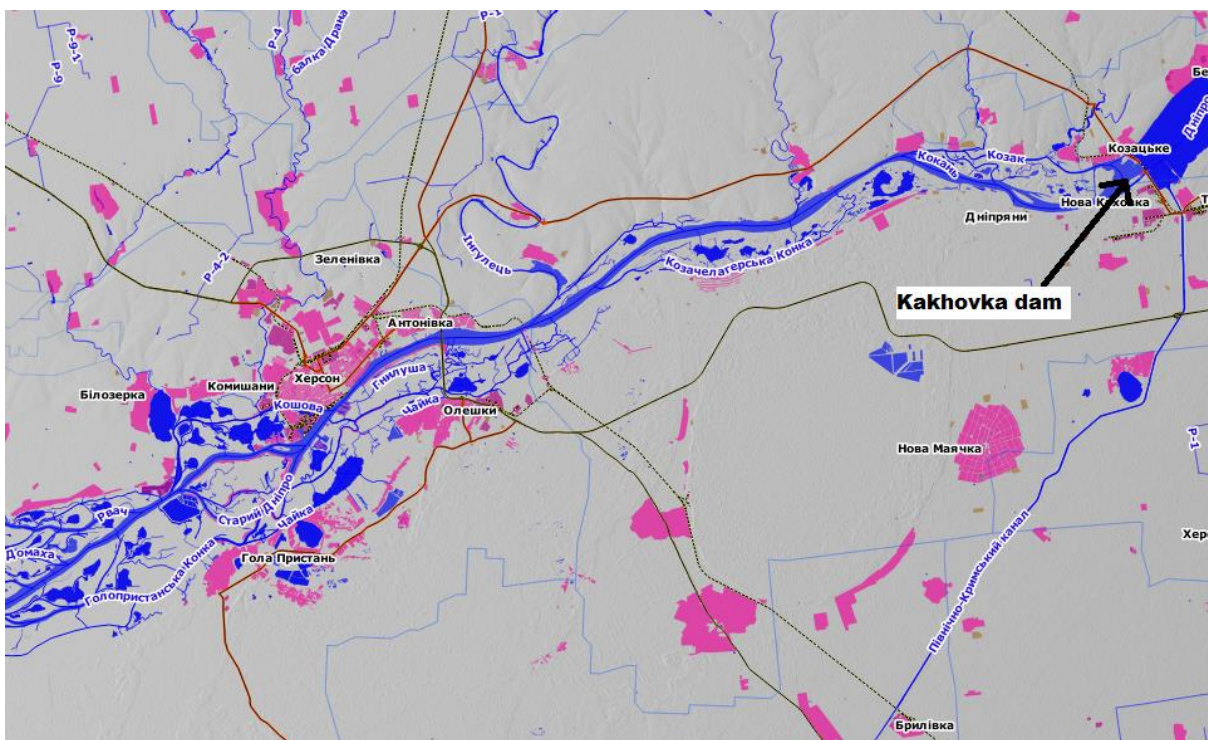
Blast of Kakhovka dam in Ukraine

The Kakhovka Dam in Ukraine was destroyed in the early hours of June 6, 2023, causing extensive inundation along the lower Dnieper river (also known as the Dnipro) in Kherson Oblast. Massive amounts of water were flooding about 100 sqkm of the lower areas along the river Dnieper.



Image source: Reuters

The map below shows a hillshade in the background. We see that the northern part lies a bit higher. In blue we see the lakes and rivers and their extend under normal conditions. Many settlements (pink) along the river, between the dam and Cherson are flooded since the dam was destroyed.



The map below shows a pseudo-true Color Composite derived from a single date Sentinel-1 SAR image from June 1, 2023 five days before the catastrophe came to happen. Dark areas are flooded.



Sentinel-1 is independent from clouds and therefore ideal for time-series monitoring. The next map is a color composite based on three succeeding Sentinel-1 acquisitions. The three dates are June 1, June 9 and June 13 2023



The data clearly indicates the flooded areas. It could help to plan measures for humanitarian help.