

The brief report

This brief report presents the results of the analysis of flooded areas in the affected settlements following the demolition of the Kakhovka Hydroelectric Power Station (HPS).

The objective of the study was to determine the number of flooded houses and the area of submerged residential buildings.

The analysis revealed a total of 51,283 flooded houses with a combined submerged area of approximately 7,393,889 square meters.

The boundary between the flooded and non-flooded areas was determined by marking the outermost flood line, indicating the distribution limit of flooded houses.

01 Completely flooded

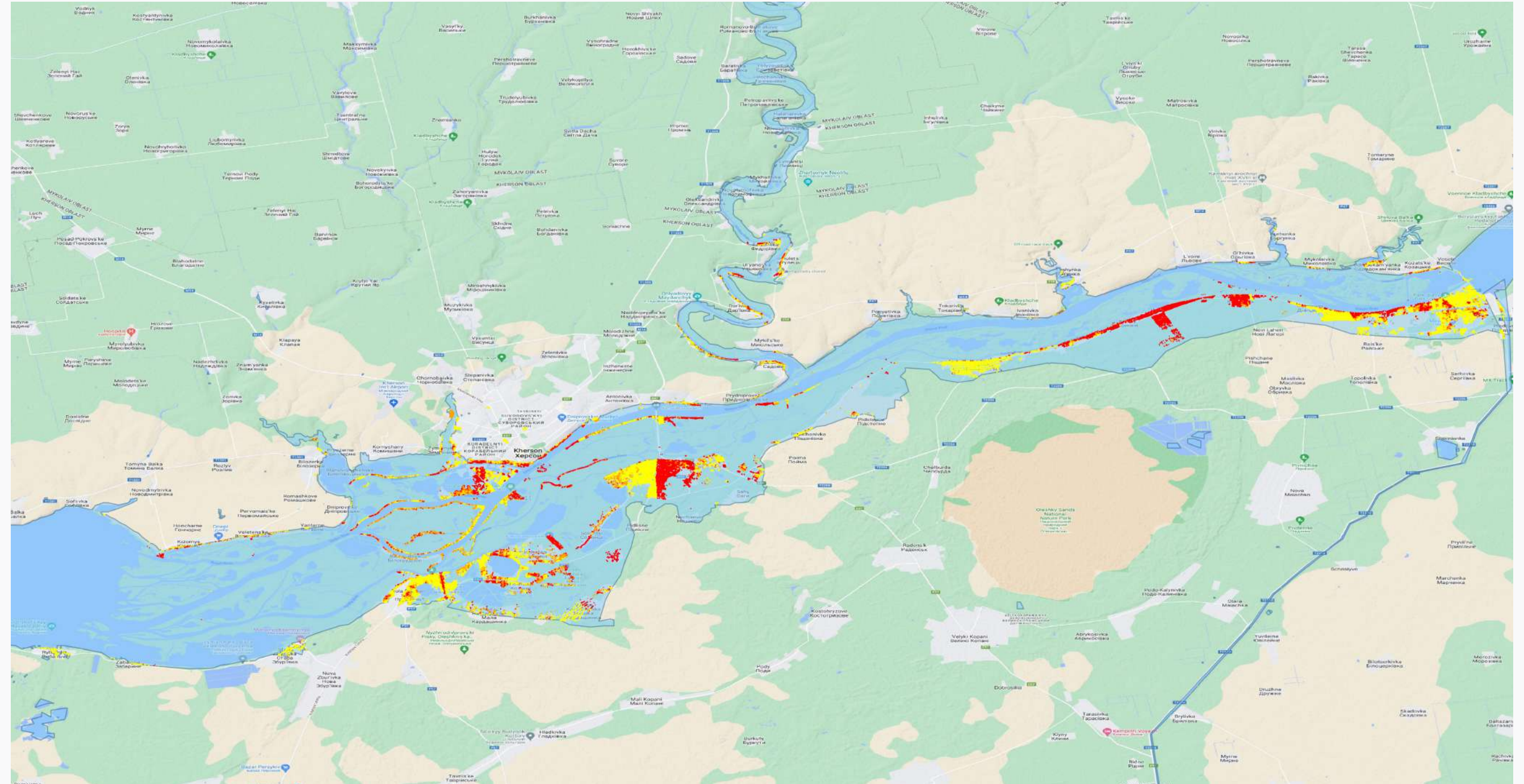
11,041 houses were completely flooded, with a total submerged area of 1,170,290 square meters

02 Partial flooding

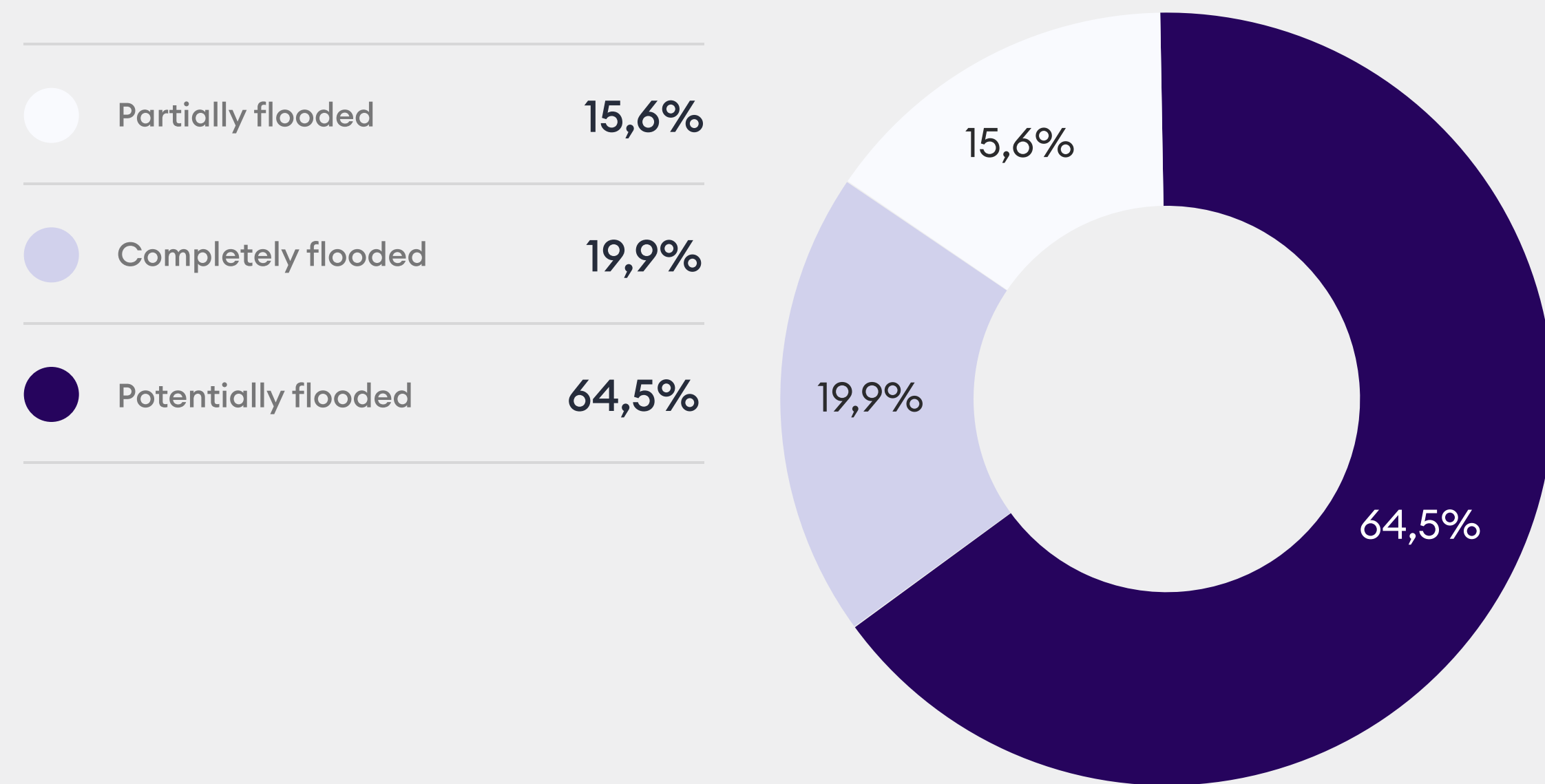
6,568 houses experienced partial flooding, with a submerged area of 939,362 square meters

03 Potentially flooding

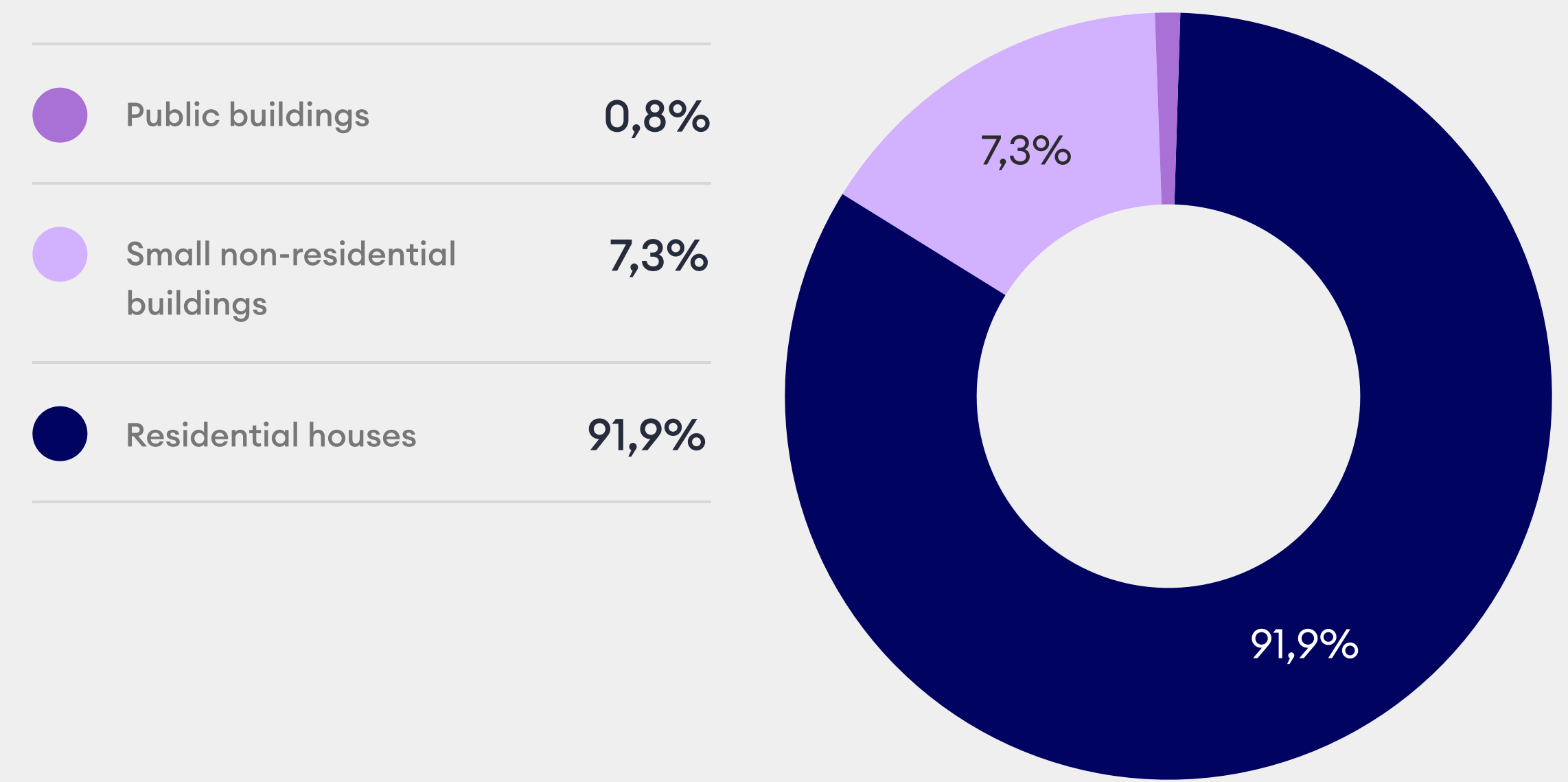
33,674 buildings were potentially flooded, covering a total area of 5,284,236 square meters



Distribution of building flooding by different levels:







Types of flooded buildings:

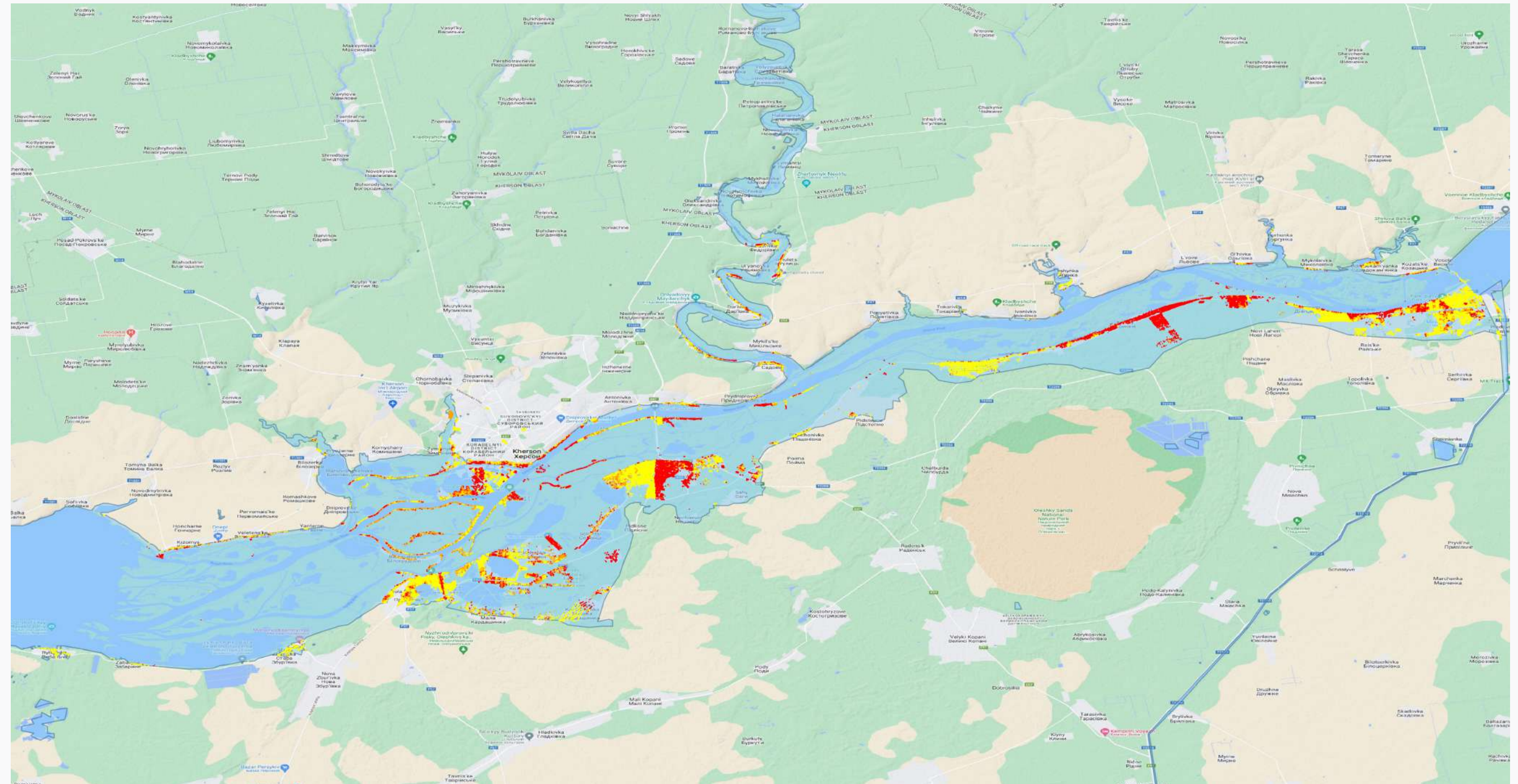


Sources of data used:

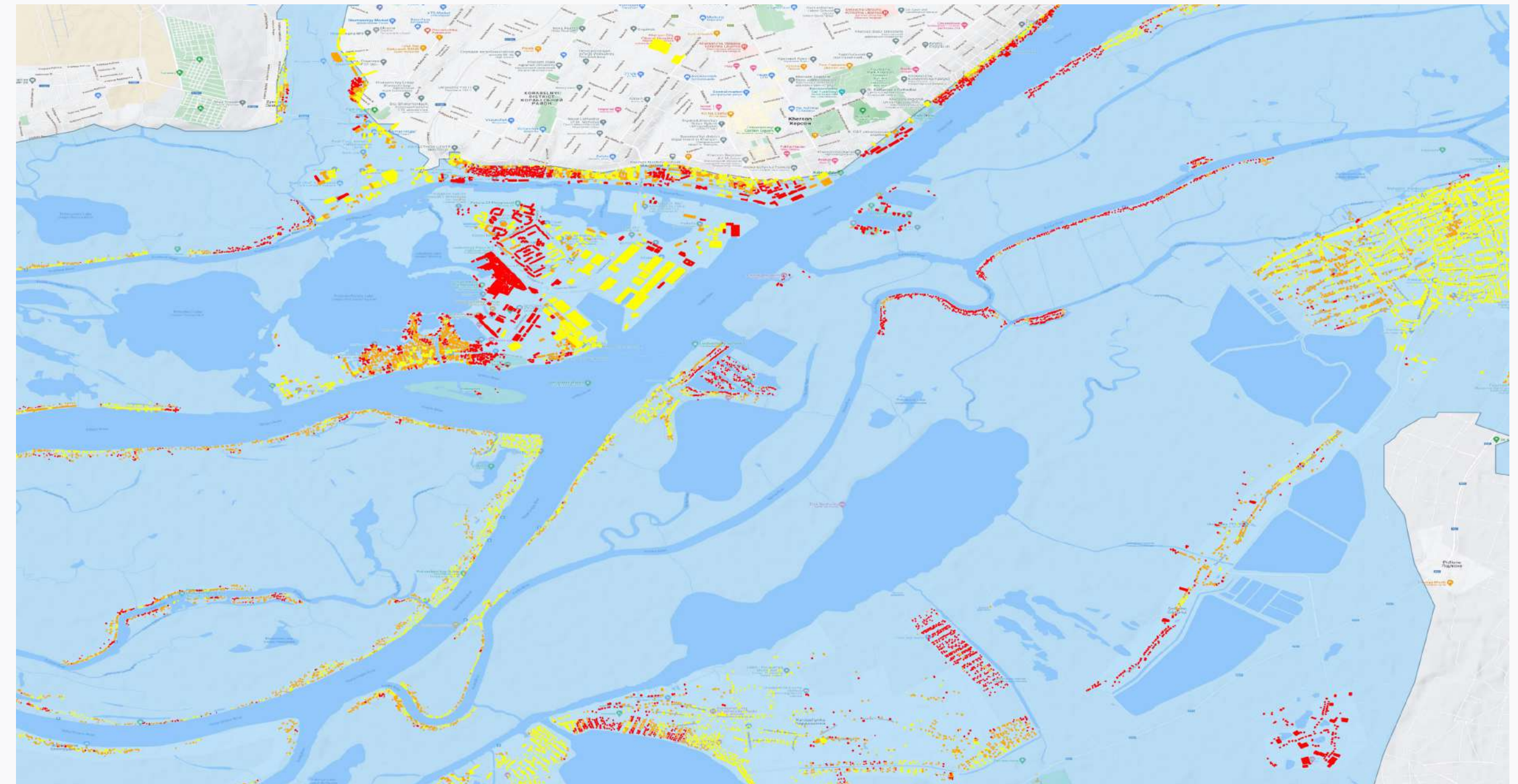
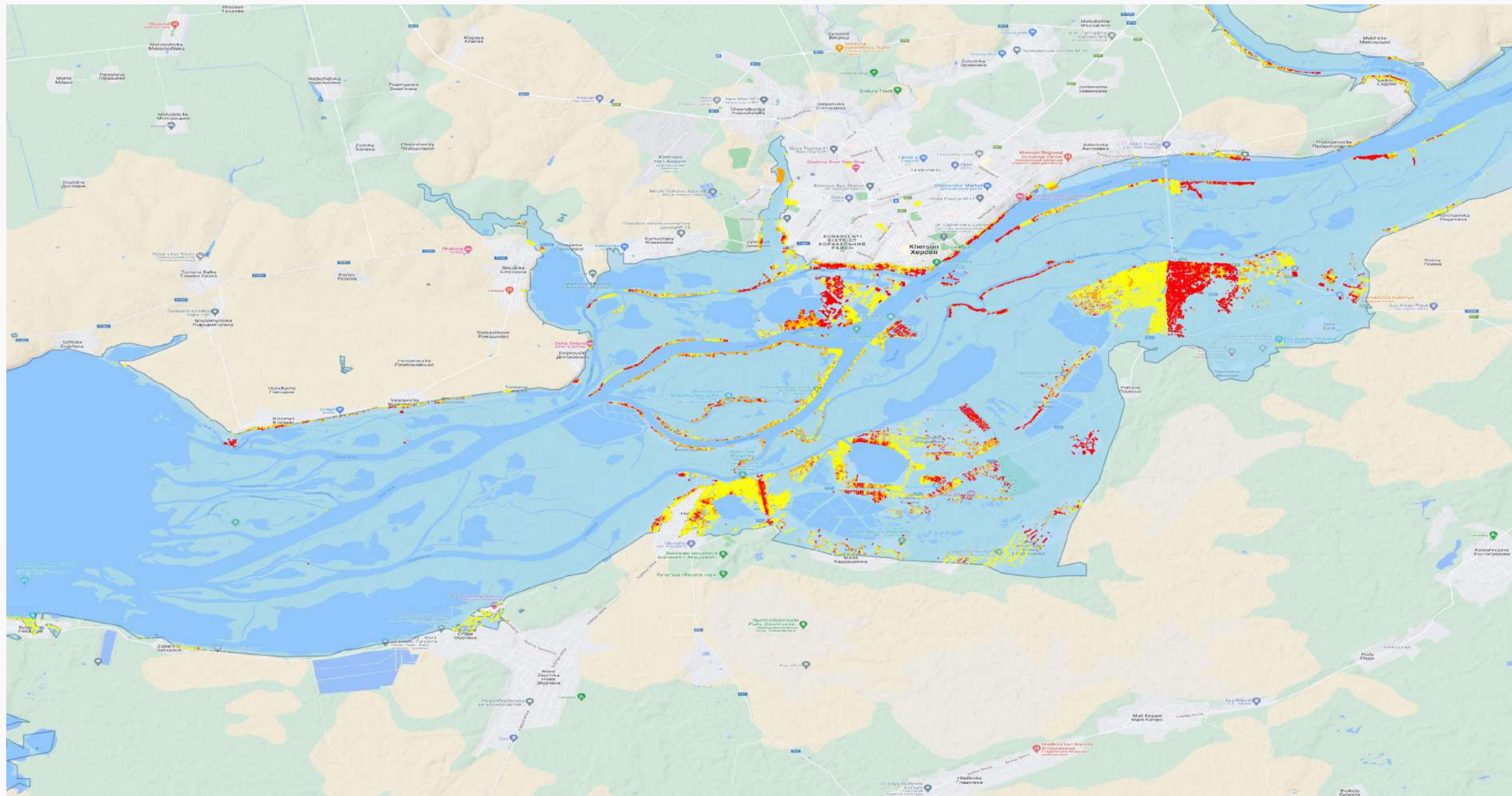
To obtain these results, data from satellite imagery and open sources were utilized. The analysis methods involved processing and interpretation of satellite images, as well as the use of geospatial data to calculate the level of building flooding.

The map images provide more detailed information about the distribution of flooded houses in the affected settlements. The map displays houses with overlaid polygons, each representing a different color indicating the degree of flooding.

- | | |
|---|---|
|  Completely flooded |  Potentially flooded |
|  Partially flooded |  Non-flooded |



These results are preliminary, as further investigations are ongoing to study the entire flooded area and assess the consequences of the Kakhovka HPS demolition. The data from this study serve as an informational resource for a better understanding of the extent of flooding and damage assessment.



We are grateful to Azenzuz Vision for their invaluable assistance in this study.

This publication has been prepared with the financial support of the European Union. Its contents are the sole responsibility of Vox Ukraine / KSE Institute and do not necessarily reflect the views of the European Union.

