

Information bulletin¹ № 7

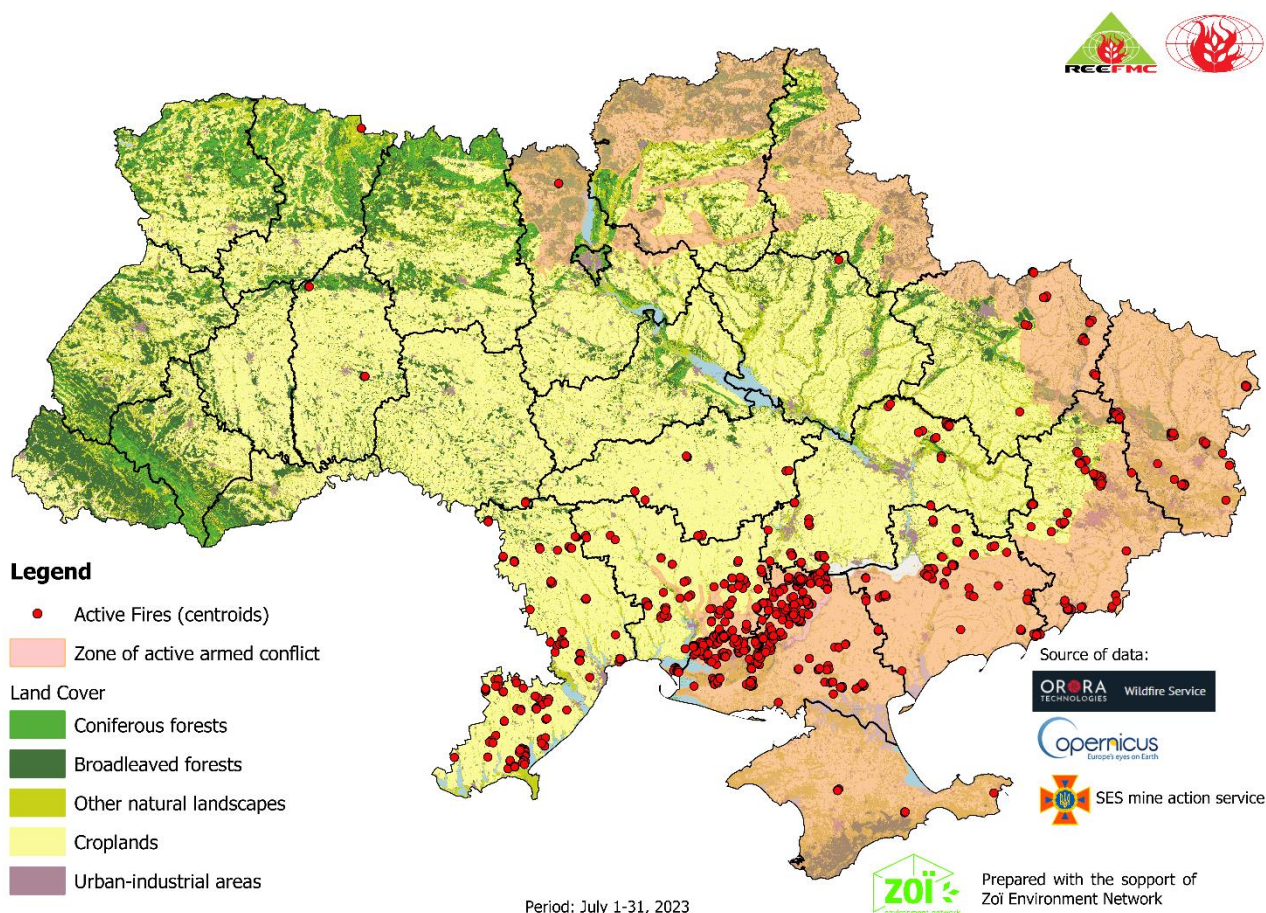
August 1, 2023

FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities²)

For the period of 01.07.2023 to 31.07.2023

1. Map of active fires on the territory of Ukraine for the period of 01.07.2023 to 31.07.2023



¹ The bulletin was prepared with the financial support of the Swiss organization «Zoi Environment Network» www.zoinet.org

² Methodology for fire monitoring is presented on the last page of this bulletin

Table 1. Statistics of fires on the territory of Ukraine for the period of 01.07.2023 to 31.07.2023

Oblast	Numbers of fires	Area of fires, ha	Distribution of fire area by types of landscapes ² , ha					Area of fires in nature conservation zones ¹
			Forests	Thereof coniferous	Agricultural lands	Other natural landscapes	Settlements	
A	B	C	D	E	F	G	H	I
Crimea	7	499	0	0	49	450	0	78
Vynnytsia	2	11	0	0	10	1	0	0
Dnipropetrovska	39	941	1	0	901	39	0	0
Donetsk	65	1487	10	0	851	619	7	0
Zaporizhzhya	88	2110	6	0	1726	368	10	8
Kyiv	3	3	3	3	0	0	0	3
Kirovograd	12	339	0	0	339	0	0	0
Luhansk	48	1862	252	64	168	1442	0	1257
Mykolaiv	136	4752	154	53	3644	948	6	267
Odesa	131	2862	0	0	2642	218	2	31
Poltava	1	5	0	0	0	5	0	0
Rivne	1	15	1	1	0	14	0	0
Kharkiv	22	681	21	19	409	237	14	106
Kherson	375	18028	2012	192	10926	5071	19	5031
Total, ha	4	145	0	0	123	22	0	0
<i>Including the Direct Impact of Military Combat Zone 60 km (30+30 km)³</i>								
Dnipropetrovs'k	13	273	0	0	273	0	0	0
Donetsk	54	1330	10	0	723	590	7	0
Zaporizhzhia	84	2053	6	0	1669	368	10	8
Kyiv	3	3	3	3	0	0	0	3
Luhansk	35	1776	251	64	163	1362	0	1257
Mykolaiv	128	4608	154	53	3501	947	6	267
Poltava	1	5	0	0	0	5	0	0
Kharkiv	22	681	21	19	409	237	14	106
Kherson	349	17411	2012	192	10340	5041	18	4778
Total, ha	689	28140	2457	331	17078	8550	55	6419
%	74	83	100	100	78	91	95	95

Explanatory Note:

¹ In the research, we have used the network of nature conservation areas of European importance, which was created to implement the provisions of the Berne Convention on the Protection of Wild Flora and Fauna and Natural Habitats in Europe (Emerald Network) (<http://emerald.net.ua/>).

² Monthly totals in Columns B and C include the number of fires and area burned all over Ukraine (total of columns D, F, G and H).

³ Military Combat Zone: Permanent corridor spanning 30 km on each side of the LoC. The corridor is determined at the beginning of active military combat and continues to be included in the monitoring areas even after ending of active military combat operations. Reason: Unexploded explosive ordnance remained in this area and continues to pose a threat of ignition. Direct impact of military operations - 60 km along frontline with both sides (30+30) of most intensive shelling and concentration of troops. Daily front line coordinates were provided by ZOI Network for define fires that occurred in the zone of direct impact (ZDI).

2. Map of fires in the nature conservation areas (Emerald Network) for the period from 01.07.2023 to 31.07.2023.

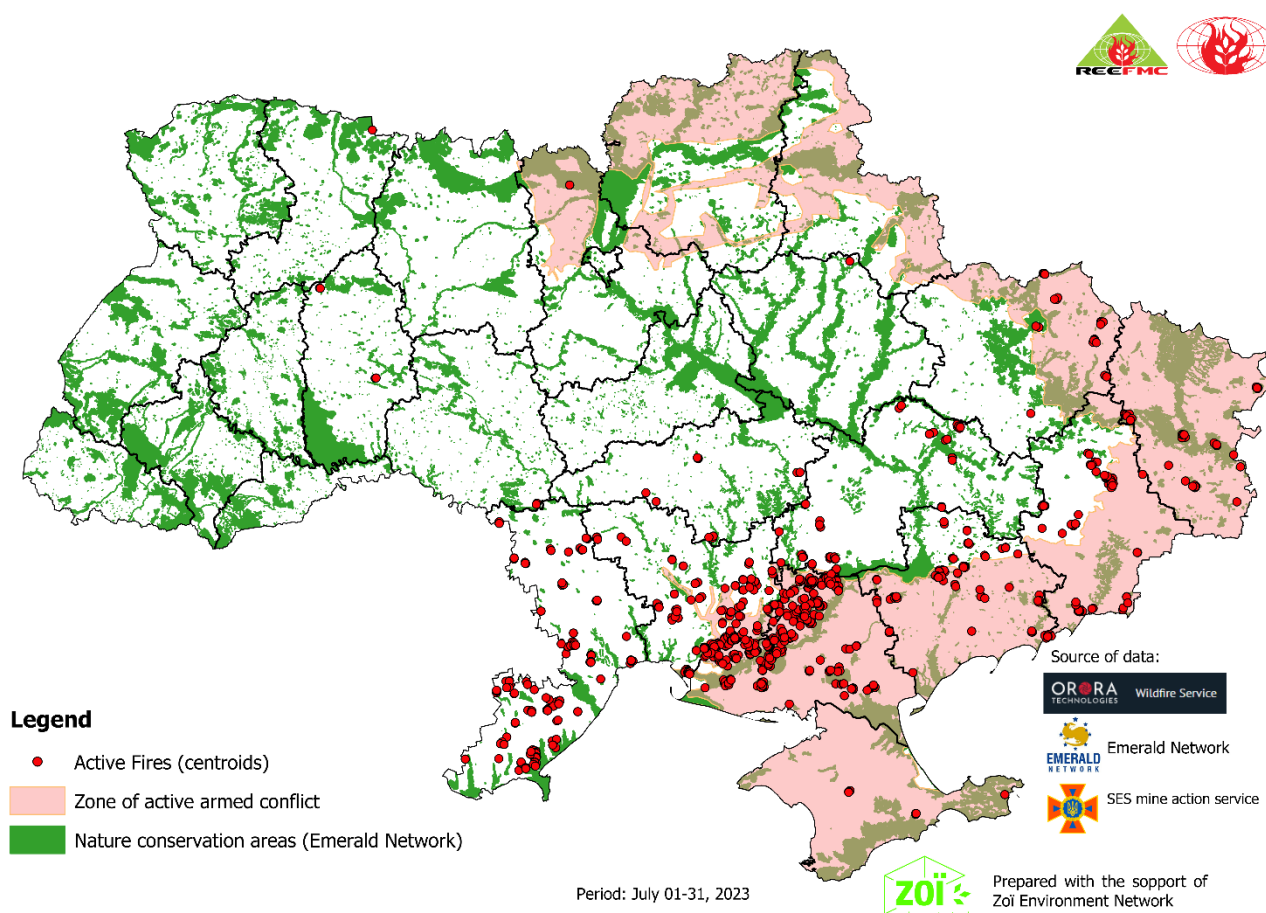


Table 2. Statistics of fires in the areas of nature conservation (Emerald network¹) for the period of 01.07.2023 to 31.07.2023

Oblast	Area of fires, ha	Distribution of fire area by types of landscapes ² , ha				
		Forests	Thereof coniferous	Agricultural lands	Other natural landscapes	Settlements
A	B	C	D	E	F	G
Crimea	78	0	0	0	78	0
Zaporizhzhya	8	0	0	2	6	0
Kyiv	3	3	3	0	0	0
Luhansk	1257	238	64	39	980	0
Mykolaiv	267	150	52	17	100	0
Odesa	31	0	0	4	27	0
Kharkiv	106	1	1	1	104	0
Kherson	5031	1786	134	333	2908	4
Total	6781	2178	254	396	4203	4
<i>Including the Direct Impact of Military Combat Zone³ 60 km (30+30 km)³</i>						
Zaporizhzhya	8	0	0	2	6	0
Kyiv	3	3	3	0	0	0
Luhansk	1257	238	64	39	980	0
Mykolaiv	267	150	52	17	100	0
Kharkiv	106	1	1	1	104	0
Kherson	4778	1786	134	85	2903	4
Total	6419	2178	254	144	4093	4
%	95	100	100	36	97	100

Explanatory Note:

¹ In the research, we have used the network of nature conservation areas of European importance, which was created to implement the provisions of the Berne Convention on the Protection of Wild Flora and Fauna and Natural Habitats in Europe (Emerald Network) (<http://emerald.net.ua/>).

² Monthly totals in Column B include the area burned of fires over Ukraine (total of columns C, E, F and G).

³ Military Combat Zone: Permanent corridor spanning 30 km on each side of the LoC. The corridor is determined at the beginning of active military combat and continues to be included in the monitoring areas even after ending of active military combat operations. Reason: Unexploded explosive ordnance remained in this area and continues to pose a threat of ignition. Direct impact of military operations - 60 km along frontline with both sides (30+30) of most intensive shelling and concentration of troops. Daily front line coordinates were provided by ZOI Network for define fires that occurred in the zone of direct impact (ZDI).

3. Methodology for fire monitoring

Daily front line coordinates were provided by ZOI Network for define fires that occurred in the zone of direct impact (ZDI). Distribution of burned land cover types within fire perimeters were mapped using the Copernicus Dynamic Land Cover map at 100 m resolution for 2019 ([Copernicus Global Land Operations "Vegetation and Energy"](#)), which provides a detailed description of land cover as of 2019 with a resolution of 100 m. Detailed information about the product - https://land.copernicus.eu/global/sites/cgls.vito.be/files/products/CGLOPS1_ATBD_LC100m-V2.0_I2.00.pdf.

The network of nature conservation areas of European importance, which was created to implement the provisions of the Berne Convention on the Protection of Wild Flora and Fauna and Natural Habitats in Europe (Emerald Network) (<http://emerald.net.ua/>), was used for the analysis of areas of nature conservation value that were affected by fires.

The analysis was performed using a free geographic information system. QGIS (3.2.1), which is one of the most functional and convenient desktop geographic information systems.