

Address: Kyiv, 03041, Dniprovska Naberezhna St. 7A, office 104.

Tel. +38 067 2611682

E-mail: reefmc@nubip.edu.ua URL: <https://nubip.edu.ua/node/9083>

Information bulletin¹ № 11

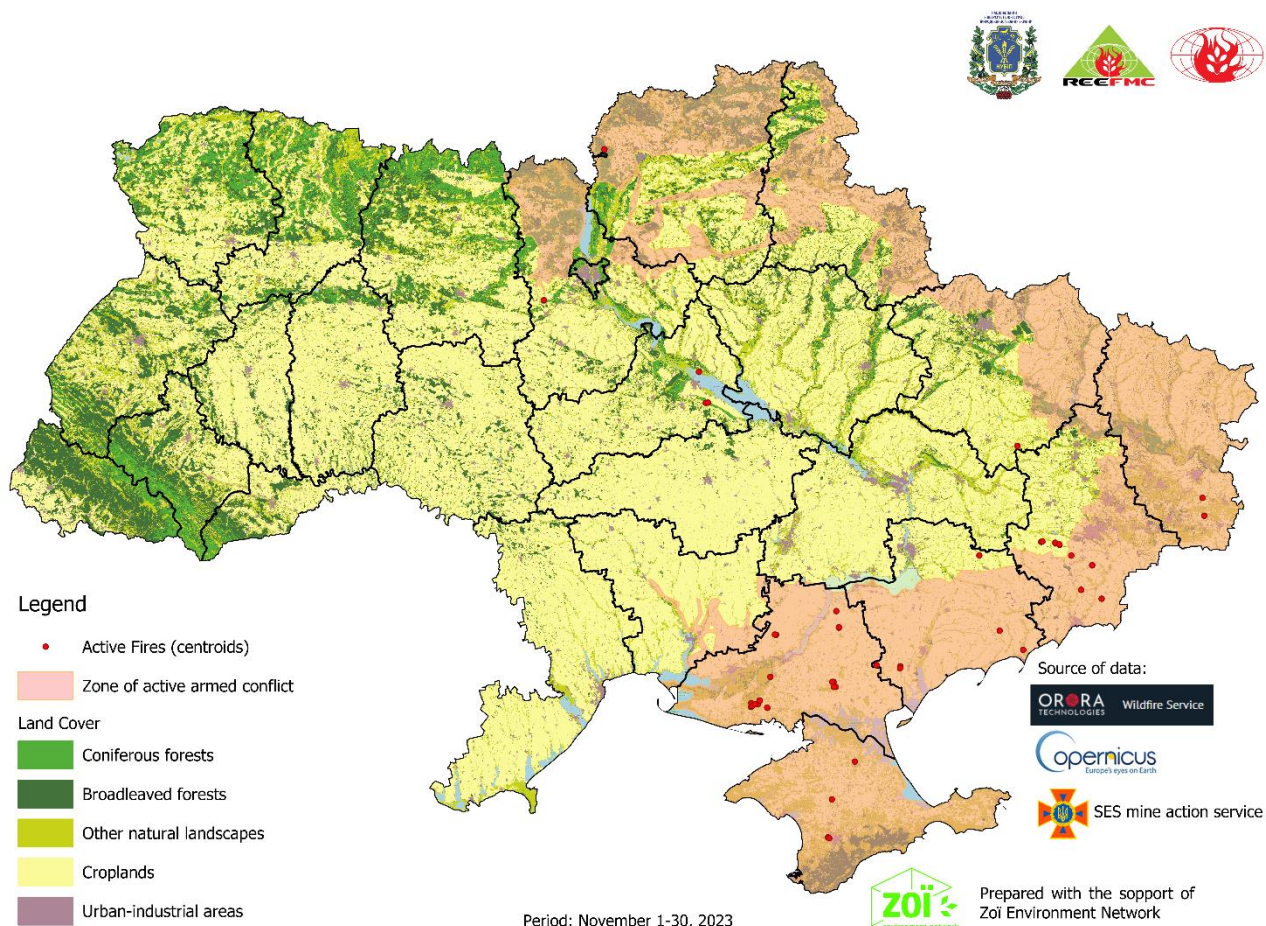
December 1, 2023

FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities²)

For the period of 01.11.2023 to 30.11.2023

1. Map of active fires on the territory of Ukraine for the period of 01.11.2023 to 30.11.2023



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 01.11.2023 to 30.11.2023

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	4	65	0	0	31	33	1	0
Donetsk	11	225	4	0	163	58	0	13
Zaporizhzhya	6	249	4	0	139	106	0	0
Kyiv	1	4	4	0	0	0	0	4
Luhansk	2	130	0	0	53	75	2	0
Kharkiv	1	5	0	0	5	0	0	0
Kherson	21	605	4	3	519	82	0	406
Cherkasy	3	27	20	19	5	2	0	0
Chernihiv	3	7	7	7	0	0	0	7
Total, ha	52	1317	43	29	915	356	3	430
<i>Including the Direct Impact of Military Combat Zone 60 km (30+30 km)³</i>								
Donetsk	11	225	4	0	163	58	0	13
Zaporizhzhya	6	249	4	0	139	106	0	0
Kyiv	1	4	4	0	0	0	0	4
Luhansk	1	2	0	0	0	0	2	0
Kherson	16	217	4	3	142	71	0	18
Chernihiv	3	7	7	7	0	0	0	7
Total, ha	38	704	23	10	444	235	2	42
%	73	53	53	34	49	66	67	10

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 01.11.2023 to 30.11.2023.

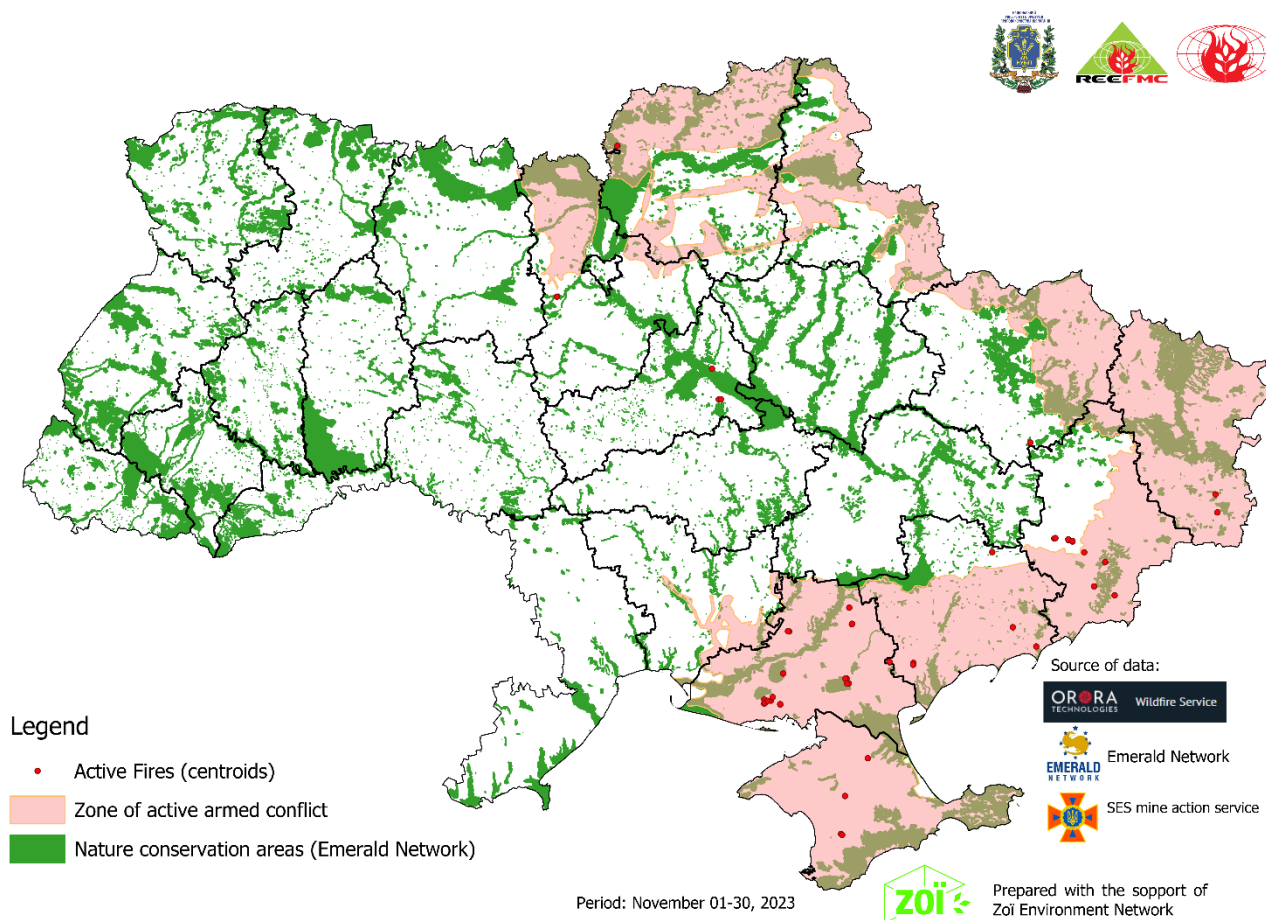


Table 2. Statistics of fires in the areas of nature conservation (Emerald network¹) for the period of 01.11.2023 to 30.11.2023

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
Donetsk	13	0	0	7	6	0
Kyiv	4	4	0	0	0	0
Kherson	406	4	3	377	25	0
Chernihiv	7	7	7	0	0	0
Total	430	15	10	384	31	0
<i>Including the Direct Impact of Military Combat Zone³ 60 km (30+30 km)³</i>						
Donetsk	13	0	0	7	6	0
Kyiv	4	4	0	0	0	0
Kherson	18	4	3	0	14	0
Chernihiv	7	7	7	0	0	0
Total	42	15	10	7	20	0
%	10	100	100	2	65	-

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.