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Information bulletin¹ № 5

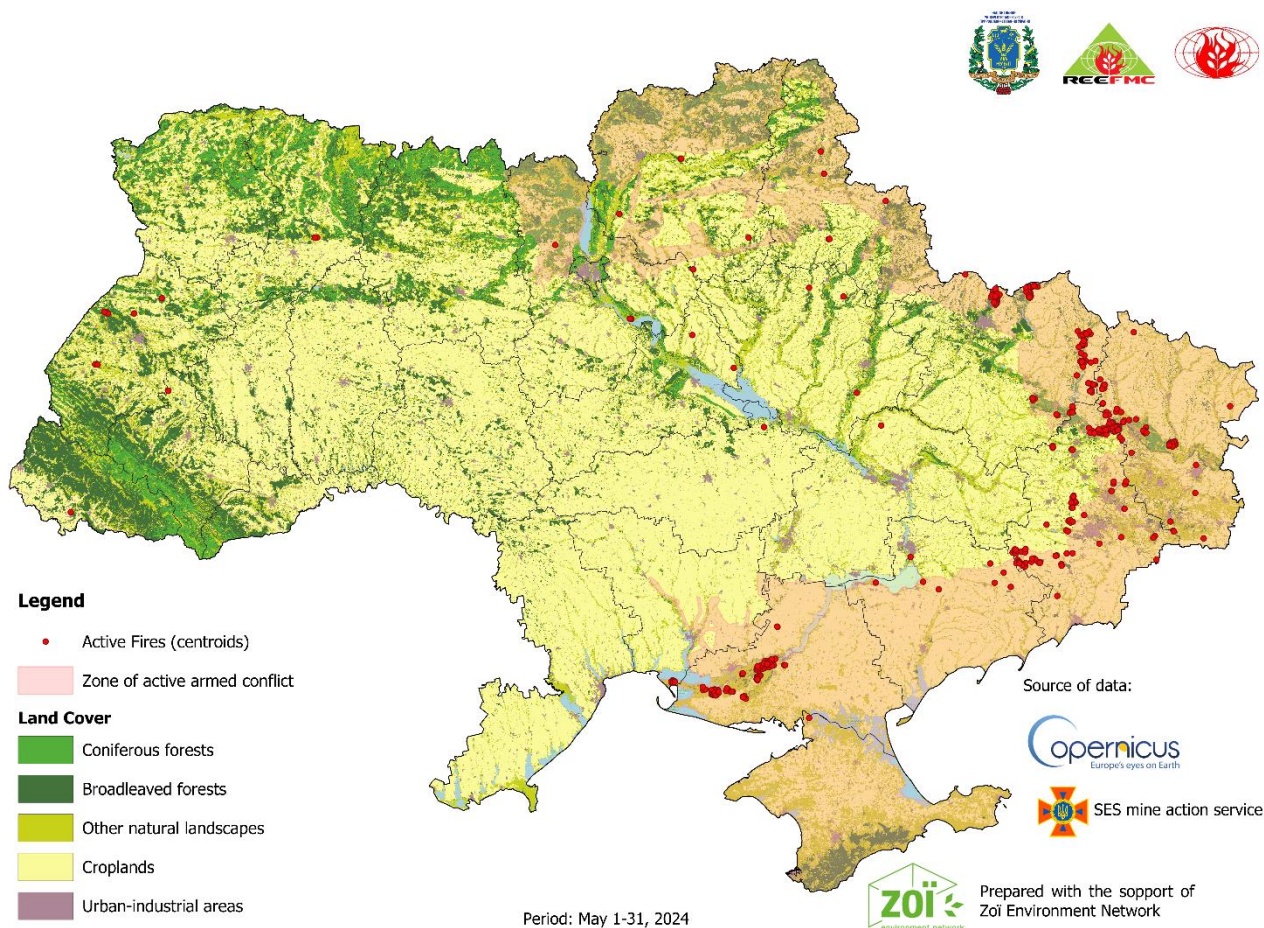
June 1, 2024

FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities²)

For the period of 01.05.2024 to 31.05.2024

1. Map of active fires on the territory of Ukraine for the period of 01.05.2024 to 31.05.2024



¹ The bulletin was prepared with the financial support of the Swiss organization «Zoï 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 01.05.2024 to 31.05.2024

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	1	3	0	0	0	3	0	0
Dnipropetrovska	1	6	0	0	4	2	0	0
Donetsk	107	2881	729	588	1465	685	2	698
Transcarpathian	1	13	1	0	2	10	0	0
Zaporizhzhya	9	309	11	0	114	184	0	165
Ivano-Frankivsk	1	8	0	0	0	8	0	0
Kyiv	3	186	18	16	0	168	0	0
Kirovograd	1	18	0	0	18	0	0	18
Luhansk	76	2182	1176	978	469	537	0	1509
Lviv	9	502	25	0	39	438	0	23
Mykolaiv	18	188	89	30	0	99	0	188
Poltava	3	23	2	0	1	20	0	0
Rivne	2	96	4	0	4	88	0	0
Sumy	5	39	4	0	22	13	0	0
Chernihiv	5	55	11	4	7	37	0	0
Kharkiv	107	2226	341	183	648	1214	23	244
Kherson	86	5293	2544	597	287	2459	3	3865
Cherkasy	2	40	0	0	39	1	0	0
Total, ha	437	14068	4955	2396	3119	5966	28	6710
<i>Including the Direct Impact of Military Combat Zone 60 km (30+30 km)³</i>								
Donetsk	101	2527	728	588	1322	475	2	698
Zaporizhzhya	9	309	11	0	114	184	0	165
Kyiv	1	17	0	0	0	17	0	0
Luhansk	74	2134	1176	978	439	519	0	1509
Mykolaiv	18	188	89	30	0	99	0	188
Sumy	5	39	4	0	22	13	0	0
Chernihiv	5	55	11	4	7	37	0	0
Kharkiv	107	2226	341	183	648	1214	23	244
Kherson	86	5293	2544	597	287	2459	3	3865
Total, ha	406	12788	4904	2380	2839	5017	28	6669
%	93	91	99	99	91	84	100	99

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 01.05.2024 to 31.05.2024.

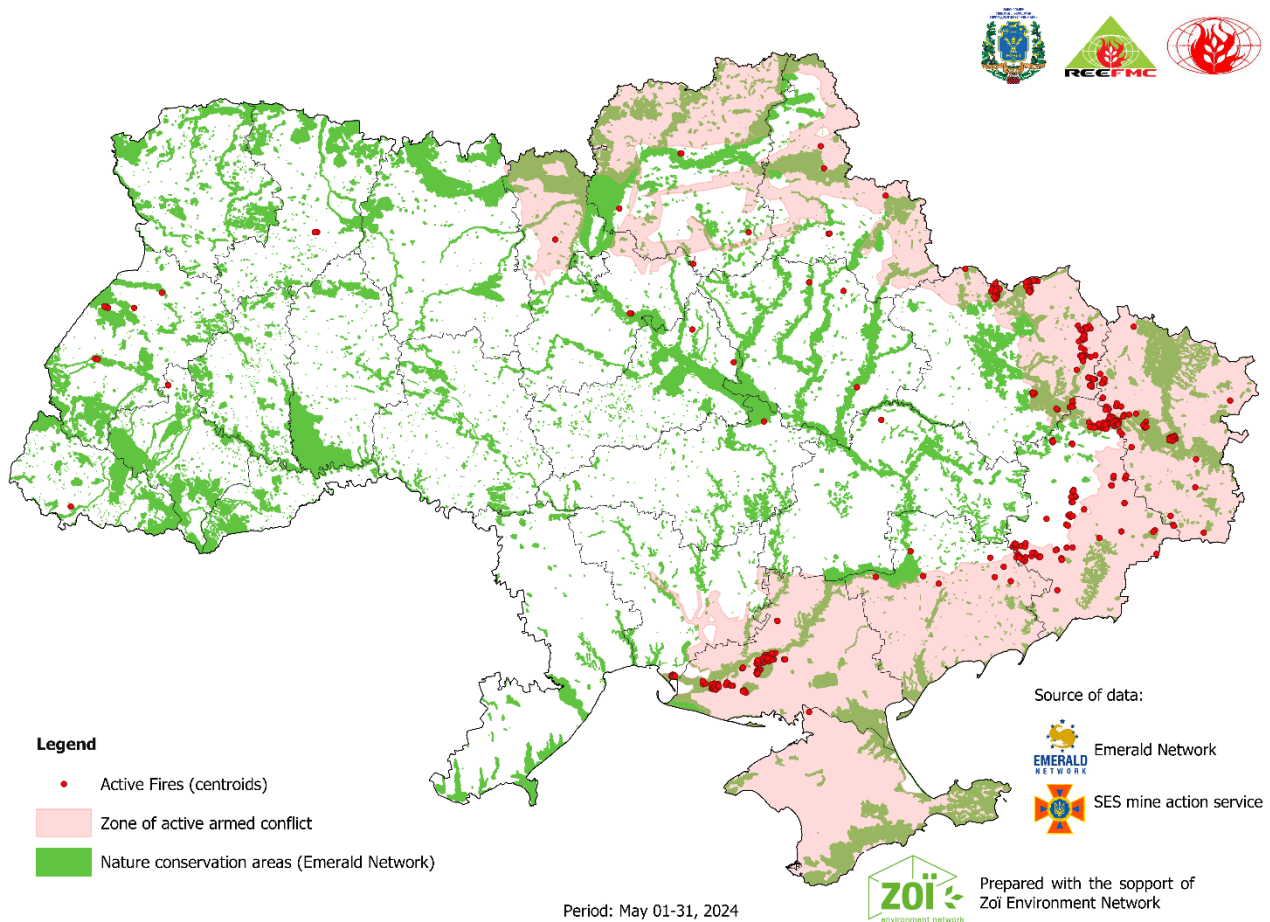


Table 2. Statistics of fires in the areas of nature conservation (Emerald network¹) for the period of 01.05.2024 to 31.05.2024

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	698	560	493	35	103	0
Zaporizhzhya	165	11	0	0	154	0
Kirovograd	18	0	0	18	0	0
Luhansk	1509	1134	963	46	329	0
Lviv	23	0	0	14	9	0
Mykolaiv	188	89	30	0	99	0
Kharkiv	244	87	54	10	147	0
Kherson	3865	2171	386	4	1690	0
Total	6710	4052	1926	127	2531	0
<i>Including the Direct Impact of Military Combat Zone³ 60 km (30+30 km)³</i>						
Donetsk	698	560	493	35	103	0
Zaporizhzhya	165	11	0	0	154	0
Luhansk	1509	1134	963	46	329	0
Mykolaiv	188	89	30	0	99	0
Kharkiv	244	87	54	10	147	0
Kherson	3865	2171	386	4	1690	0
Total	6669	4052	1926	95	2522	0
%	99	100	100	75	100	0

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.