

Information bulletin¹ № 4

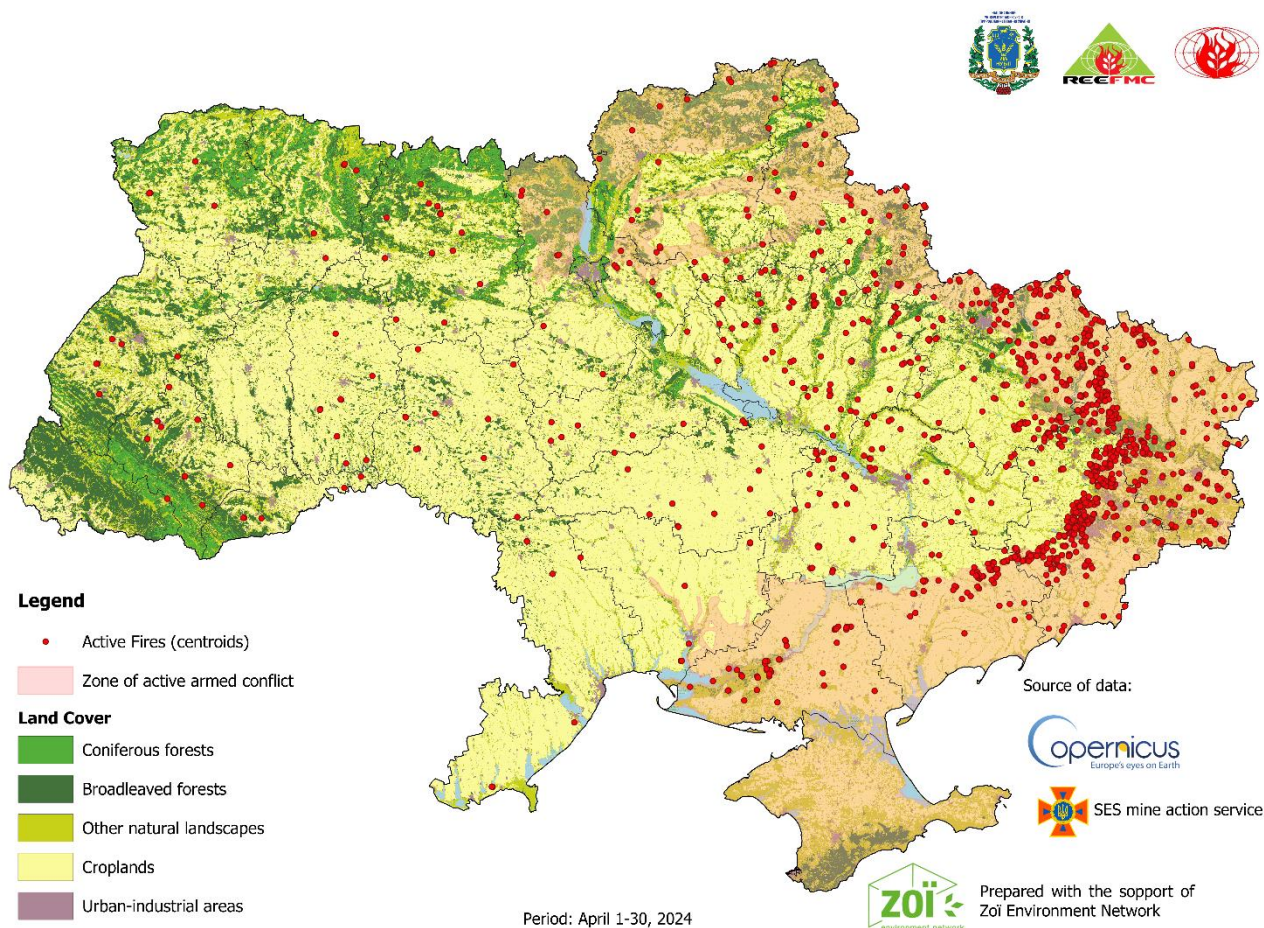
May 1, 2024

FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities²)

For the period of 01.04.2024 to 30.04.2024

1. Map of active fires on the territory of Ukraine for the period of 01.04.2024 to 30.04.2024



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 01.04.2024 to 30.04.2024

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
Vinnycytsia	10	128	0	0	118	10	0	0
Volyn	4	32	2	0	25	5	0	0
Dnipropetrovska	56	2388	5	1	1445	931	7	284
Donetsk	391	29406	3571	2682	21391	4311	133	5091
Zhytomyr	18	1115	29	0	826	256	4	45
Transcarpathian	1	5	5	5	0	0	0	0
Zaporizhzhya	67	2896	11	0	2569	314	2	37
Ivano-Frankivsk	10	169	1	0	104	62	2	0
Kyiv	16	514	8	1	308	197	1	92
Kirovograd	11	215	0	0	193	22	0	37
Luhansk	239	39760	16520	13495	12177	10919	144	20842
Lviv	6	98	1	0	44	52	1	48
Mykolaiv	7	139	0	0	80	59	0	0
Odesa	6	67	0	0	66	1	0	0
Poltava	82	2405	32	0	2013	360	0	68
Rivne	5	942	36	21	480	426	0	4
Sumy	55	3221	161	0	1722	1338	0	414
Chernihiv	25	849	111	84	404	333	1	80
Kharkiv	272	26669	3381	2522	16935	6175	178	1679
Kherson	46	3836	753	400	824	2248	11	2142
Khmelnitsky	15	93	1	0	53	39	0	43
Cherkasy	11	259	3	0	244	12	0	0
Chernivtsi	5	33	0	0	23	10	0	0
Total, ha	1358	115239	24631	19211	62044	28080	484	30906
<i>Including the Direct Impact of Military Combat Zone 60 km (30+30 km)³</i>								
Dnipropetrovs'k	4	96	0	0	28	68	0	0
Donetsk	361	28805	3566	2682	20987	4119	133	5091
Zaporizhzhia	64	2827	10	0	2518	297	2	17
Kyiv	14	419	8	1	252	158	1	92
Luhansk	209	37736	16501	13495	11158	9933	144	20842
Mykolaiv	4	97	0	0	43	54	0	0
Poltava	3	22	2	0	11	9	0	13
Sumy	55	3221	161	0	1722	1338	0	414
Chernihiv	25	849	111	84	404	333	1	80
Kharkiv	255	26123	3367	2522	16649	5929	178	1679
Kherson	45	3732	753	400	728	2240	11	2038
Total, ha	1039	103927	24479	19184	54500	24478	470	30266
%	77	90	99	100	88	87	97	98

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 01.04.2024 to 30.04.2024.

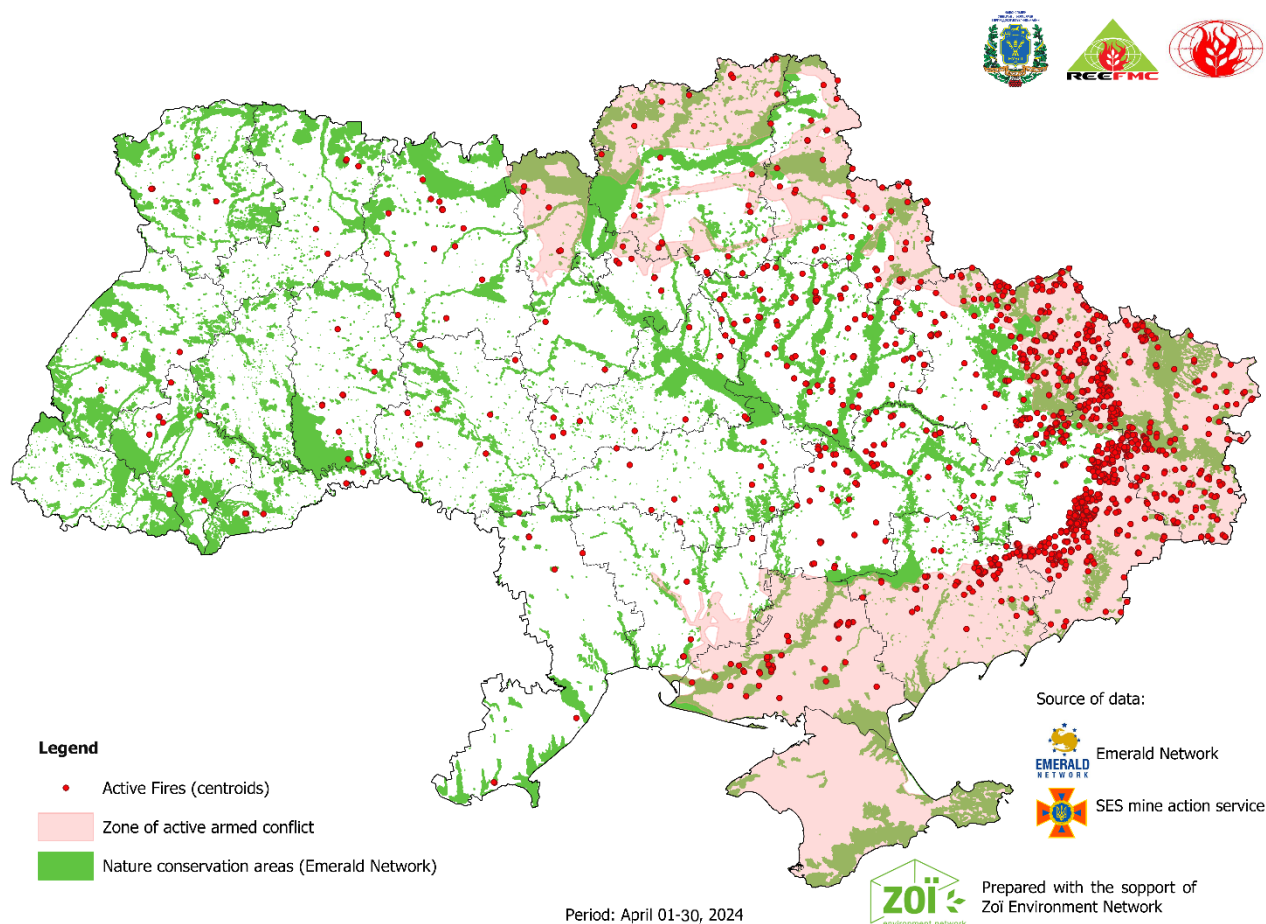


Table 2. Statistics of fires in the areas of nature conservation (Emerald network¹) for the period of 01.04.2024 to 30.04.2024

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
Dnipropetrovsk	284	0	0	89	195	0
Donetsk	5091	3065	2581	1209	785	32
Zhytomyr	45	2	0	11	32	0
Zaporizhzhia	37	1	0	25	11	0
Kyiv	92	0	0	76	16	0
Kirovograd	37	0	0	31	6	0
Luhansk	20842	16022	13490	1019	3778	23
Lviv	48	0	0	37	11	0
Poltava	68	3	0	29	36	0
Rivne	4	3	0	0	1	0
Sumy	414	4	0	65	345	0
Chernihiv	80	79	74	0	1	0
Kharkiv	1679	72	1	635	970	2
Kherson	2142	457	212	155	1527	3
Khmelnysky	43	0	0	23	20	0
Total	30906	19708	16358	3404	7734	60

*Including the Direct Impact of Military Combat Zone³
60 km (30+30 km)³*

Donetsk	5091	3065	2581	1209	785	32
Zaporizhzhya	17	0	0	7	10	0

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
Kyiv	92	0	0	76	16	0
Luhansk	20842	16022	13490	1019	3778	23
Poltava	13	2	0	8	3	0
Sumy	414	4	0	65	345	0
Chernihiv	80	79	74	0	1	0
Kharkiv	1679	72	1	635	970	2
Kherson	2038	457	212	59	1519	3
Total	30266	19701	16358	3078	7427	60
%	98	100	100	90	96	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"](https://land.copernicus.eu/global/sites/cgls.vito.be/files/products/CGLOPS1_ATBD_LC100m-V2.0_I2.00.pdf)), 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.