

Information bulletin¹ № 3

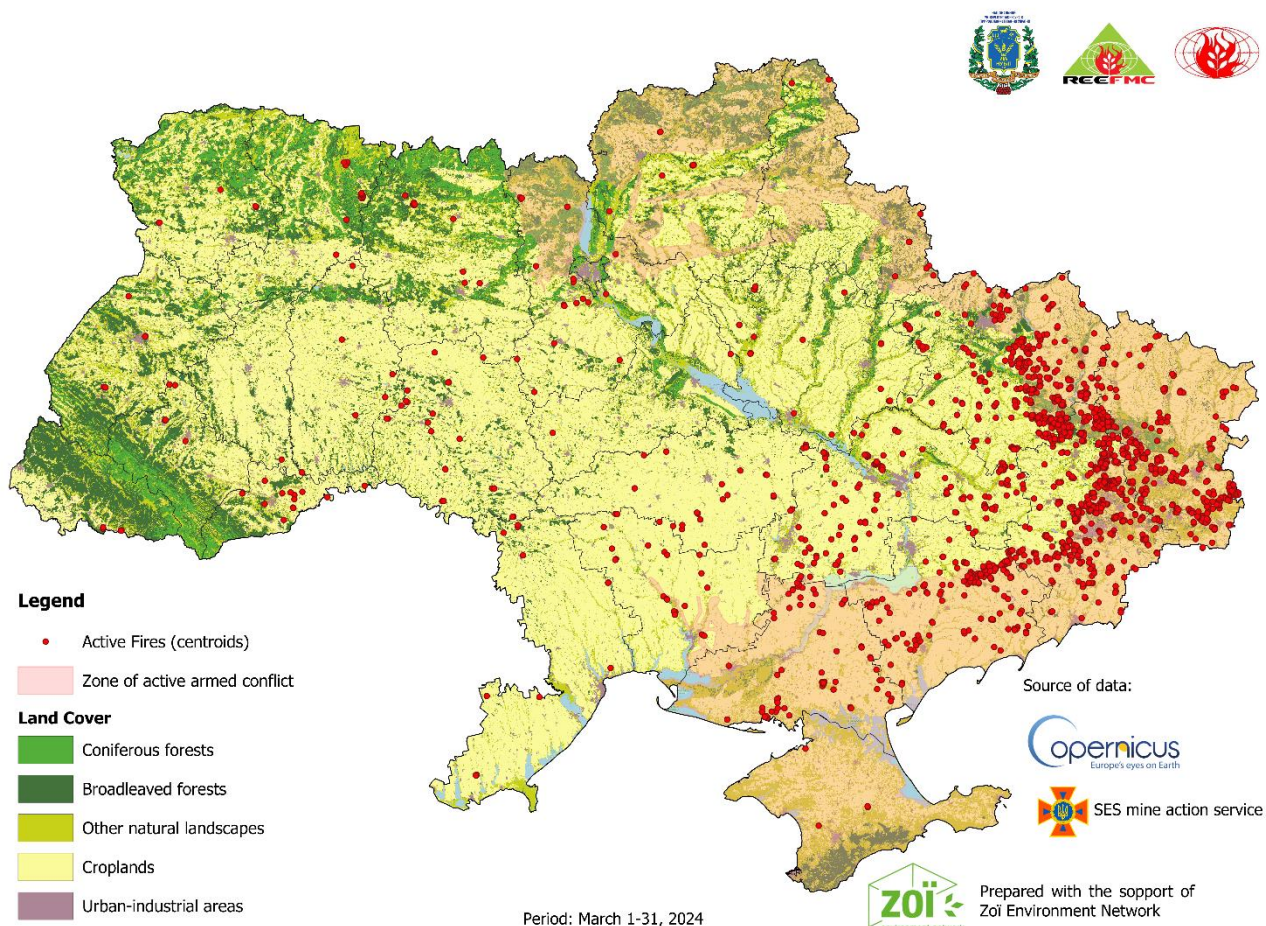
April 1, 2024

FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities²)

For the period of 01.03.2024 to 31.03.2023

1. Map of active fires on the territory of Ukraine for the period of 01.03.2024 to 31.03.2024



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 01.03.2024 to 31.03.2024

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	4	137	0	0	5	132	0	43
Vinnitsia	21	400	7	0	304	88	1	57
Volyn	5	76	0	0	53	23	0	0
Dnipropetrovsk	142	6695	15	0	3808	2805	67	600
Donetsk	570	43557	1880	588	29907	11568	202	2085
Zhytomyr	13	164	0	0	129	35	0	0
Transcarpathiar	6	65	19	0	28	17	1	4
Zaporizhzhya	194	9855	33	0	8078	1733	11	276
Ivano-Frankivsl	5	108	15	0	11	82	0	0
Kyiv	19	502	0	0	339	161	2	157
Kirovograd	25	468	0	0	449	18	1	173
Luhansk	317	48304	2781	1530	21128	24235	160	8449
Lviv	6	352	0	0	34	317	1	0
Mykolaiv	23	539	0	0	267	272	0	177
Odesa	12	178	5	0	169	4	0	0
Poltava	17	221	5	0	100	116	0	12
Rivne	17	833	114	0	261	458	0	0
Sumy	11	820	14	0	621	184	1	6
Ternopil	1	30	0	0	27	3	0	0
Chernihiv	7	250	0	0	239	11	0	7
Kharkiv	362	42513	831	12	27454	14003	225	8013
Kherson	70	1944	0	0	1547	396	1	442
Khmelnysky	7	49	0	0	47	2	0	9
Cherkasy	2	20	0	0	15	5	0	0
Chernivtsi	15	483	2	0	291	169	21	0
Total, ha	1871	158563	5721	2130	95311	56837	694	20510
<i>Including the Direct Impact of Military Combat Zone 60 km (30+30 km)³</i>								
Dnipropetrovsk	18	569	0	0	414	95	60	64
Donetsk	531	41927	1862	588	29293	10570	202	2011
Zaporizhzhia	190	9696	23	0	8063	1599	11	243
Kyiv	14	384	0	0	232	150	2	157
Luhansk	224	31769	2541	1530	13343	15809	76	4607
Mykolaiv	13	409	0	0	143	266	0	177
Sumy	11	820	14	0	621	184	1	6
Chernihiv	7	250	0	0	239	11	0	7
Kharkiv	308	40059	776	10	26616	12444	223	7672
Kherson	54	1510	0	0	1180	329	1	8
Total, ha	1370	127393	5216	2128	80144	41457	576	14952
%	73	80	91	100	84	73	83	73

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 01.03.2024 to 31.03.2024.

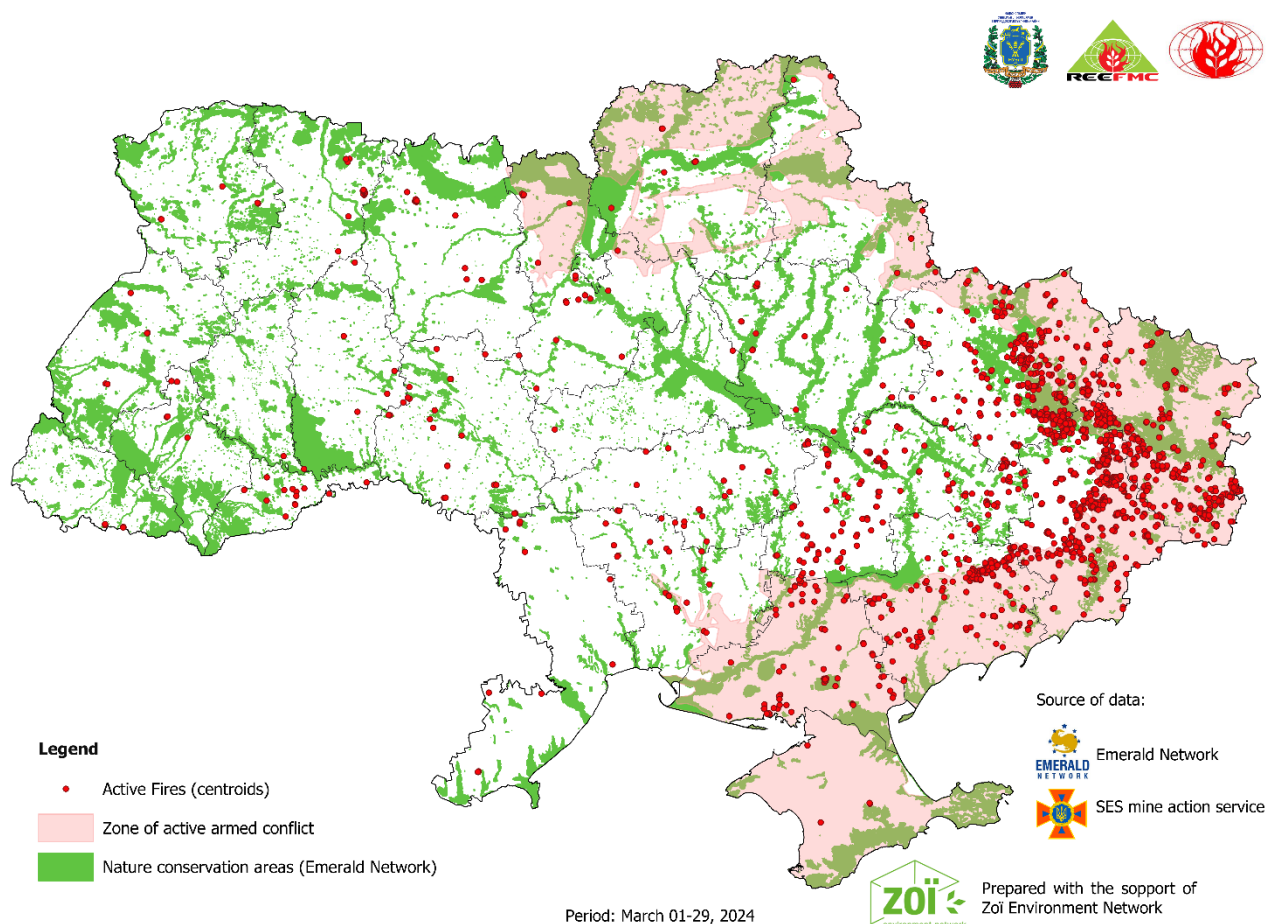


Table 2. Statistics of fires in the areas of nature conservation (Emerald network¹) for the period of 01.03.2024 to 31.03.2024

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
Crimea	43	0	0	0	43	0
Vinnitsia	57	0	0	22	35	0
Dnipropetrovska	600	1	0	158	440	1
Donetsk	2085	591	359	441	1051	2
Transcarpathian	4	4	0	0	0	0
Zaporizhzhya	276	0	0	20	256	0
Kyiv	157	0	0	144	13	0
Kirovograd	173	0	0	160	13	0
Luhansk	8449	1897	1530	2886	3664	2
Mykolaiv	177	0	0	14	163	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
Poltava	12	2	0	0	10	0
Sumy	6	1	0	0	5	0
Chernihiv	7	0	0	4	3	0
Kharkiv	8013	143	1	3477	4392	1
Kherson	442	0	0	375	67	0
Khmelnyskyi	9	0	0	9	0	0
Total	20510	2639	1890	7710	10155	6
<i>Including the Direct Impact of Military Combat Zone³ 60 km (30+30 km)³</i>						
Дніпропетровська	64	0	0	44	20	0
Донецька	2011	591	359	426	992	2
Запорізька	243	0	0	19	224	0
Київська	157	0	0	144	13	0
Луганська	4607	1855	1530	1088	1662	2
Миколаївська	177	0	0	14	163	0
Сумська	6	1	0	0	5	0
Чернігівська	7	0	0	4	3	0
Харківська	7672	143	1	3400	4128	1
Херсонська	8	0	0	8	0	0
Total	14952	2590	1890	5147	7210	5
%	73	98	100	67	71	83

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.