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Information bulletin¹ № 2

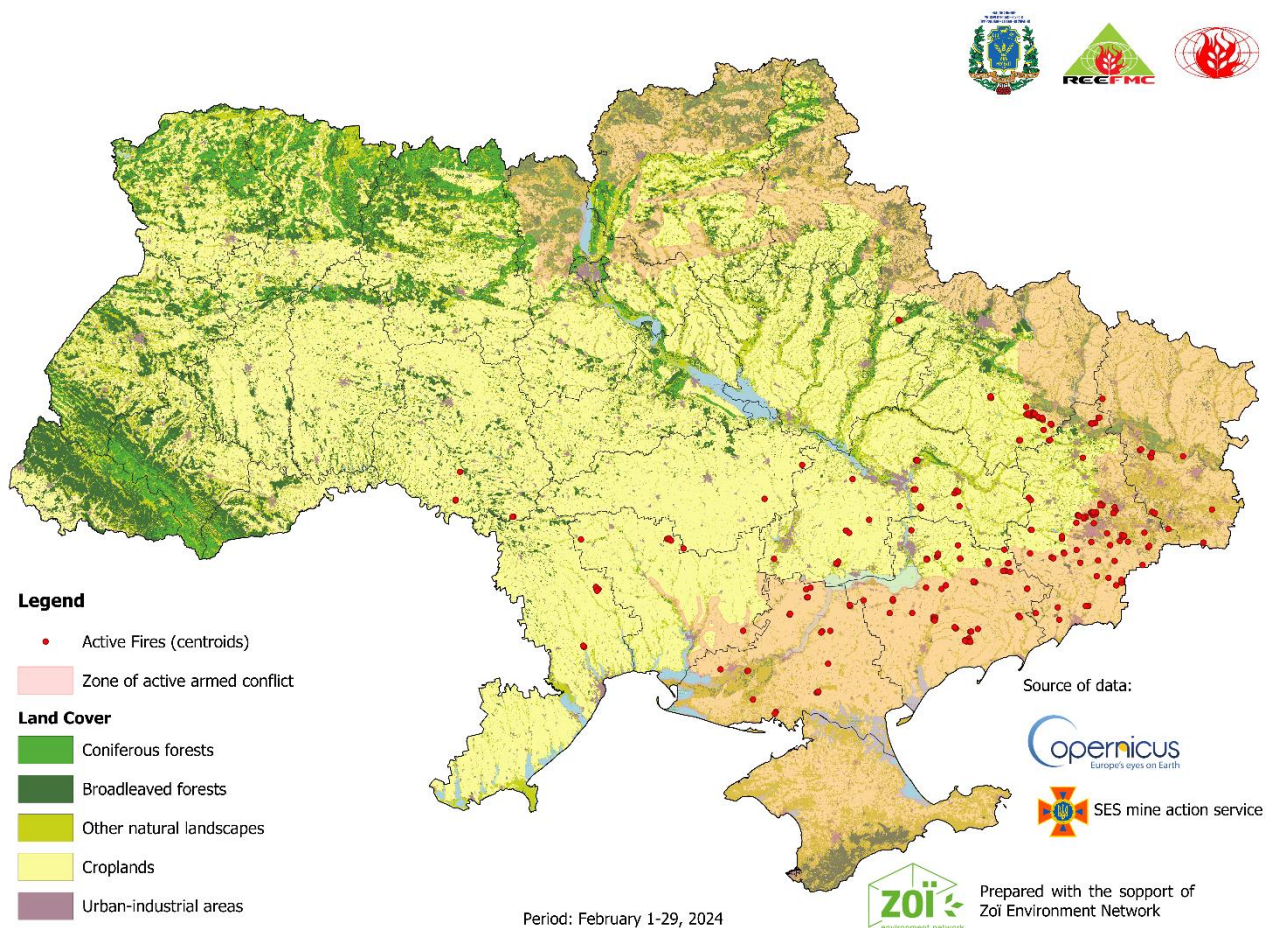
March 1, 2024

FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities²)

For the period of 01.02.2024 to 29.02.2024

1. Map of active fires on the territory of Ukraine for the period of 01.02.2024 to 29.02.2024



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 01.02.2024 to 29.02.2024

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
Vinnitsia	22	3152	2	0	333	2816	1	2826
Dnipropetrovsk	29	569	0	0	560	9	0	0
Donetsk	153	4041	4	0	3691	346	0	129
Zaporizhzhia	315	49274	231	1	38692	10237	114	141
Kirovograd	13	285	10	4	65	210	0	0
Luhansk	1	2	0	0	2	0	0	0
Mykolaiv	602	30579	53	0	23191	7066	269	2269
Odesa	1	58	0	0	56	2	0	0
Kharkiv	11	608	0	0	567	41	0	0
Kherson	16	454	0	0	426	28	0	0
Total, ha	242	8256	106	4	4541	3602	7	2500
<i>Including the Direct Impact of Military Combat Zone 60 km (30+30 km)³</i>								
Dnipropetrovsk	4	268	0	0	168	100	0	241
Donetsk	67	2127	24	0	1362	739	2	234
Zaporizhzhia	53	1347	0	0	689	658	0	275
Luhansk	7	731	6	4	171	554	0	354
Mykolaiv	1	4	0	0	4	0	0	0
Kharkiv	23	740	1	0	361	377	1	351
Kherson	18	507	24	0	327	154	2	0
Total, ha	173	5724	55	4	3082	2582	5	1455
%	71	69	52	100	68	72	71	58

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 01.02.2024 to 29.02.2024.

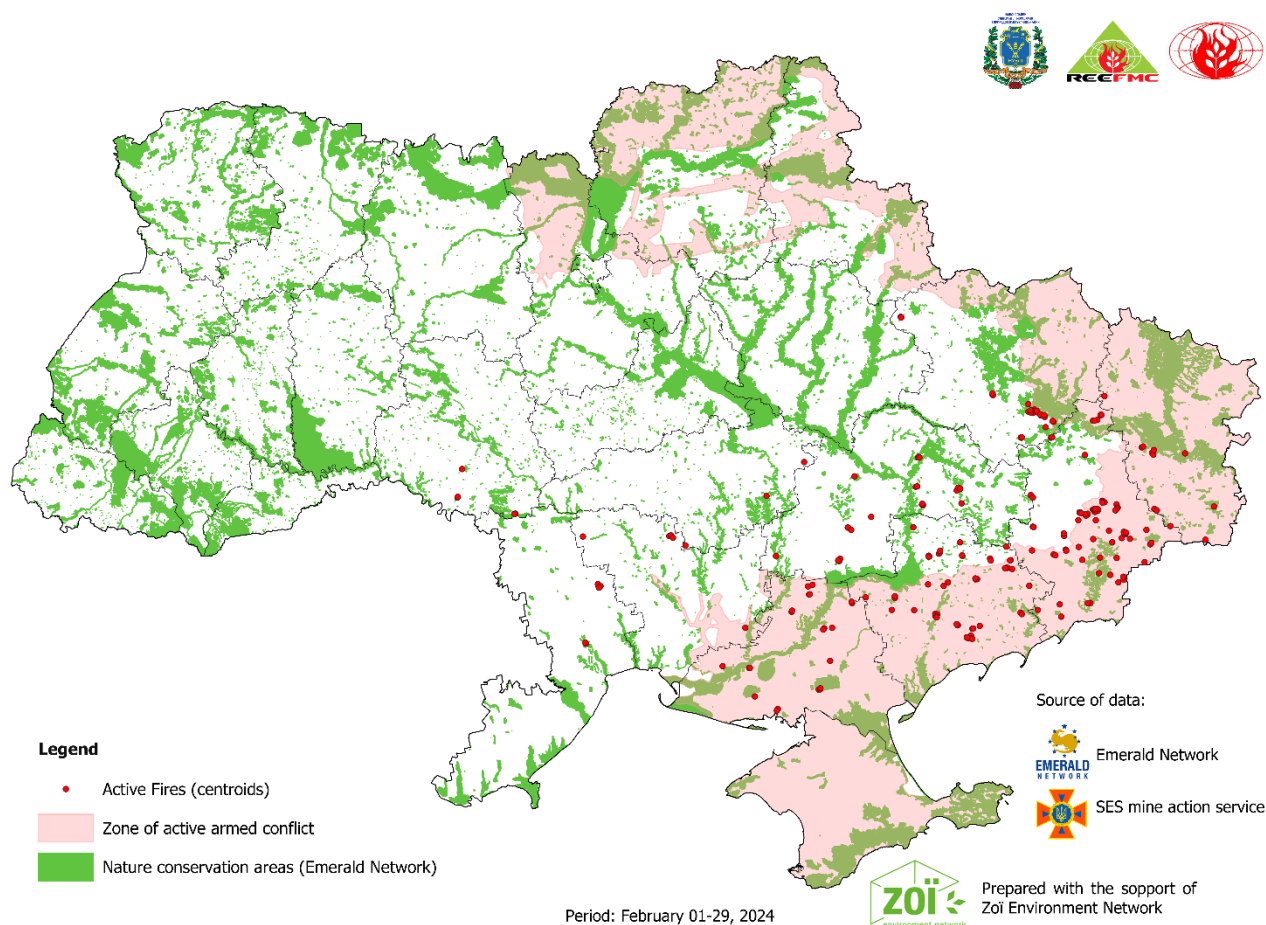


Table 2. Statistics of fires in the areas of nature conservation (Emerald network¹) for the period of 01.02.2024 to 29.02.2024

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	723	0	0	502	221	0
Donetsk	234	12	0	39	183	0
Zaporizhzhya	275	0	0	81	194	0
Kirovograd	37	0	0	37	0	0
Luhansk	596	5	4	94	497	0
Odesa	53	0	0	1	52	0
Kharkiv	351	0	0	81	269	1
Kherson	231	0	0	231	0	0
Total	2500	17	4	1066	1416	1
<i>Including the Direct Impact of Military Combat Zone³ 60 km (30+30 km)³</i>						
Dnipropetrovsk	241	0	0	143	98	0
Donetsk	234	12	0	39	183	0
Zaporizhzhia	275	0	0	81	194	0
Luhansk	354	5	4	14	335	0
Kharkiv	351	0	0	81	269	1
Total	1455	17	4	358	1079	1
%	58	100	100	34	76	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.