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Information bulletin¹ № 7

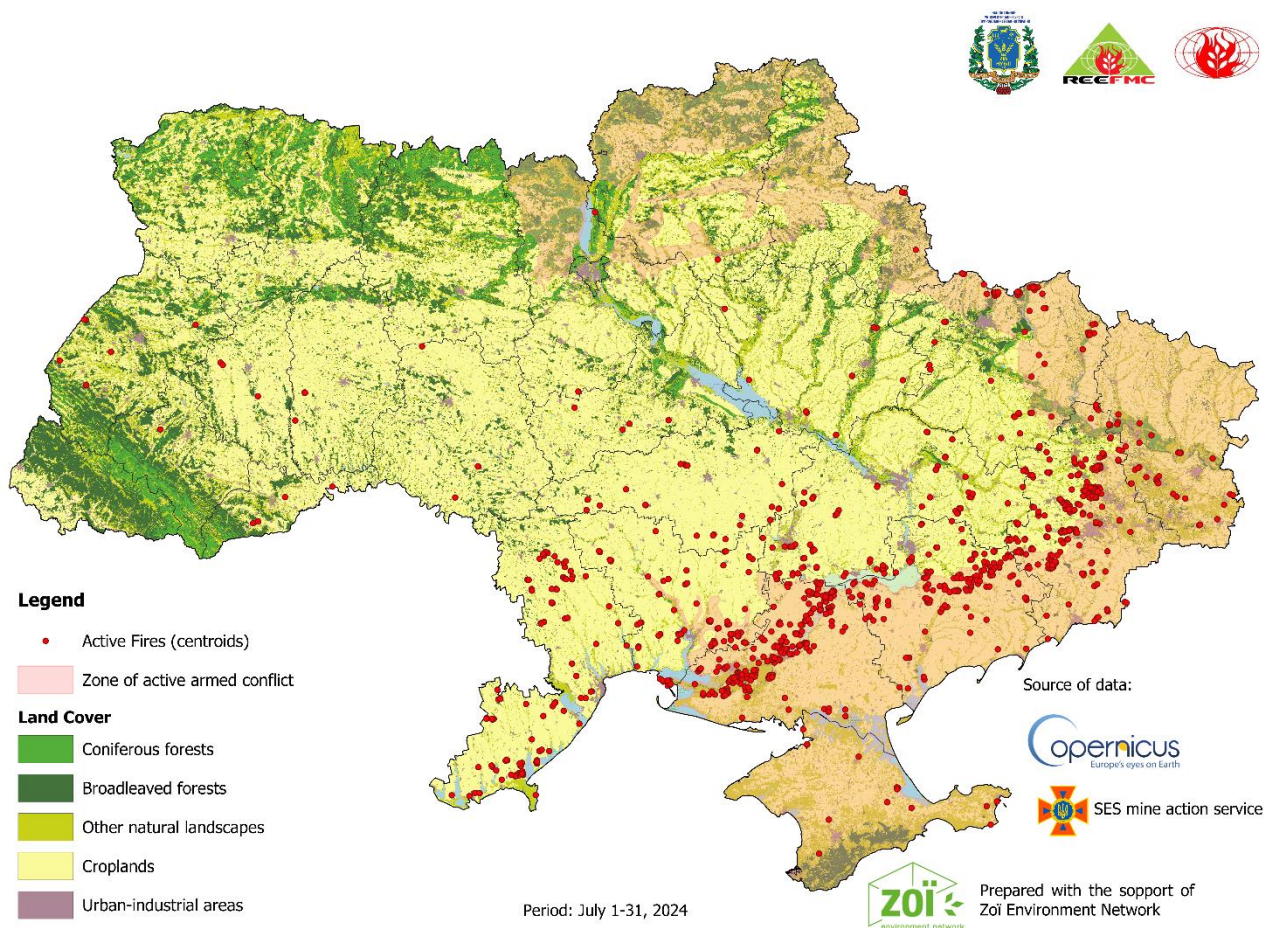
August 1, 2024

FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities²)

For the period of 01.07.2024 to 31.07.2024

1. Map of active fires on the territory of Ukraine for the period of 01.07.2024 to 31.07.2024



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 01.07.2024 to 31.07.2024

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
Cherkasy	4	52	3	0	44	5	0	0
Chernihiv	1	8	0	0	0	2	6	0
Chernivtsi	5	11	0	0	11	0	0	0
Crimea	15	433	1	0	95	327	10	85
Dnipropetrovsk	73	7439	35	6	6217	1143	44	2191
Donetsk	233	25339	909	14	15285	7220	1925	930
Ivano-Frankivsk	1	62	0	0	40	22	0	0
Kharkiv	56	2998	353	184	1652	867	126	374
Kherson	241	46432	1383	319	33620	10704	725	1629
Khmelnitskyi	4	262	0	0	262	0	0	239
Kirovohrad	26	624	0	0	621	3	0	15
Kyiv	2	14	9	0	4	1	0	10
Luhansk	31	5925	2297	1823	1313	2240	75	3178
Lviv	7	43	0	0	38	5	0	0
Mykolaiv	79	2461	0	0	1855	599	7	502
Odesa	108	5040	10	0	4705	311	14	25
Poltava	11	404	2	0	69	331	2	55
Sumy	3	16	0	0	10	6	0	0
Ternopil	3	394	0	0	394	0	0	0
Vinnitsia	4	136	0	0	132	4	0	0
Zaporizhzhia	159	18569	517	85	13312	4421	319	2076
Total, ha	1066	116662	5519	2431	79679	28211	3253	11309
<i>Including the Direct Impact of Military Combat Zone 60 km (30+30 km)³</i>								
Chernihiv	1	8	0	0	0	2	6	0
Crimea	1	175	0	0	27	148	0	0
Dnipropetrovsk	24	3809	35	6	3154	608	12	1979
Donetsk	214	23572	901	14	14238	6508	1925	930
Kharkiv	52	2756	352	184	1442	836	126	299
Kherson	236	46175	1383	319	33563	10504	725	1536
Kyiv	1	10	9	0	0	1	0	10
Luhansk	23	5296	2276	1823	1032	1922	66	3178
Mykolaiv	61	1996	0	0	1480	509	7	406
Sumy	3	16	0	0	10	6	0	0
Zaporizhzhia	153	18273	517	85	13017	4421	318	2076
Total, ha	769	102086	5473	2431	67963	25465	3185	10414
%	72	88	99	100	85	90	98	92

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 01.07.2024 to 31.07.2024.

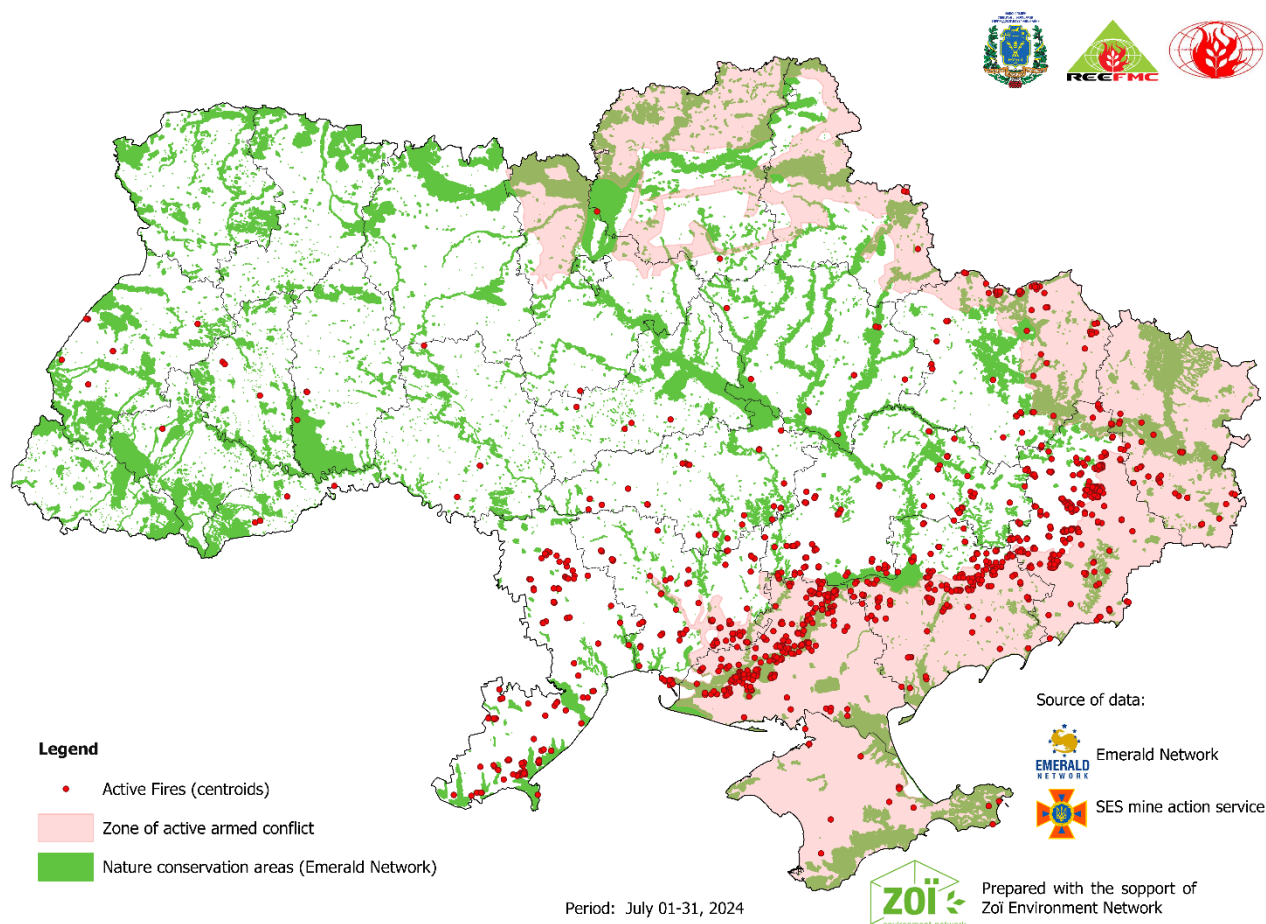


Table 2. Statistics of fires in the areas of nature conservation (Emerald network¹) for the period of 01.07.2024 to 31.07.2024

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	85	0	0	22	63	0
Dnipropetrovsk	2191	0	0	1870	310	11
Donetsk	930	0	0	737	188	5
Kharkiv	374	22	4	84	268	0
Kherson	1629	292	91	59	1278	0
Khmelnyskyi	239	0	0	239	0	0
Kirovohrad	15	0	0	15	0	0
Kyiv	10	9	0	0	1	0
Luhansk	3178	2197	1822	215	765	1
Mykolaiv	502	0	0	52	448	2
Odesa	25	0	0	10	14	1
Poltava	55	2	0	3	48	2
Zaporizhzhia	2076	448	85	447	1179	2
Total	11309	2970	2002	3753	4562	24
<i>Including the Direct Impact of Military Combat Zone³ 60 km (30+30 km)³</i>						
Dnipropetrovsk	1979	0	0	1703	274	2
Donetsk	930	0	0	737	188	5

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
Kharkiv	299	22	4	33	244	0
Kherson	1536	292	91	59	1185	0
Kyiv	10	9	0	0	1	0
Luhansk	3178	2197	1822	215	765	1
Mykolaiv	406	0	0	14	390	2
Zaporizhzhia	2076	448	85	447	1179	2
Total	10414	2968	2002	3208	4226	12
%	92	100	100	85	93	50

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.