

Information bulletin¹ № 6

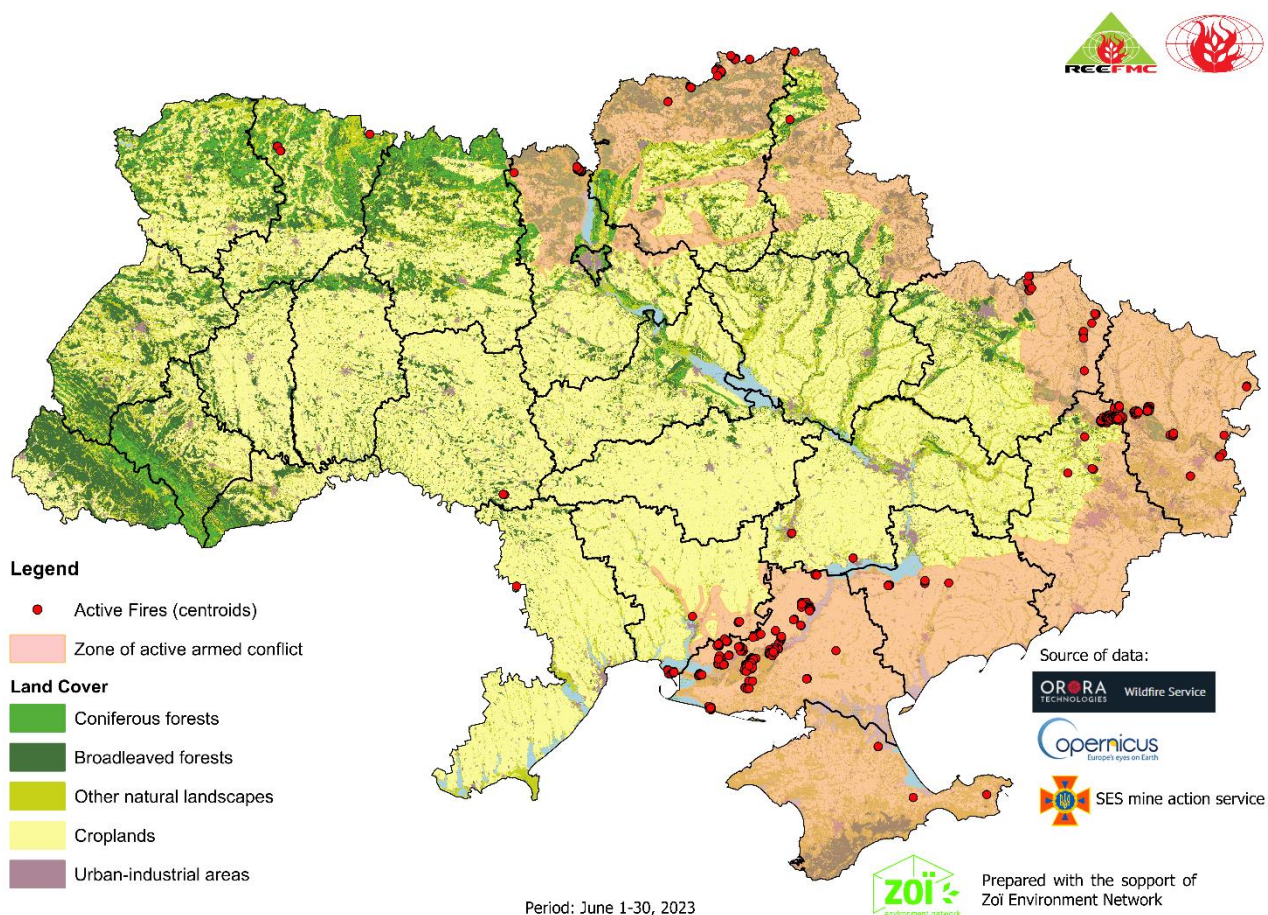
01 July 2023

FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities²)

For the period of 01.06.2023 to 30.06.2023

1. Map of active fires on the territory of Ukraine for the period of 01.06.2023 to 30.06.2023



¹ The bulletin was prepared with the financial support of the Swiss organization «Zoi 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 01.06.2023 to 30.06.2023

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	6	39	0	0	4	35	0	5
Vinnitsia	2	52	0	0	52	0	0	0
Dnipropetrovska	4	105	0	0	3	4	98	0
Donetsk	59	794	601	486	47	146	0	587
Zaporizhzhya	8	157	0	0	152	5	0	0
Kyiv	27	259	201	171	2	56	0	259
Luhansk	133	3496	2989	2789	95	411	1	3204
Mykolaiv	21	1511	200	31	691	619	1	474
Odesa	1	4	0	0	4	0	0	0
Rivne	6	150	34	32	81	35	0	0
Sumy	2	65	16	0	17	32	0	17
Kharkiv	22	257	82	68	100	75	0	1
Kherson	176	8650	1485	550	3390	3773	2	2775
Chernihiv	38	191	60	44	6	125	0	54
Total, ha	505	15730	5668	4171	4644	5316	102	7376
<i>Including the Direct Impact of Military Combat Zone</i>								
<i>60 km (30+30 km)³</i>								
Dnipropetrovs'k	2		0	0	3	2	85	0
Donetsk	57	724	600	486	3	121	0	587
Zaporizhzhia	8	157	0	0	152	5	0	0
Kyiv	27	259	201	171	2	56	0	259
Luhansk	133	3496	2989	2789	95	411	1	3204
Mykolaiv	18	1427	150	23	691	585	1	390
Sumy	2	65	16	0	17	32	0	17
Kharkiv	22	257	82	68	100	75	0	1
Kherson	173	8635	1485	550	3375	3773	2	2775
Chernihiv	38	191	60	44	6	125	0	54
Total, ha	478	15211	5583	4131	4441	5183	4	7287
%	95	97	99	99	96	97	4	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 01.06.2023 to 30.06.2023.

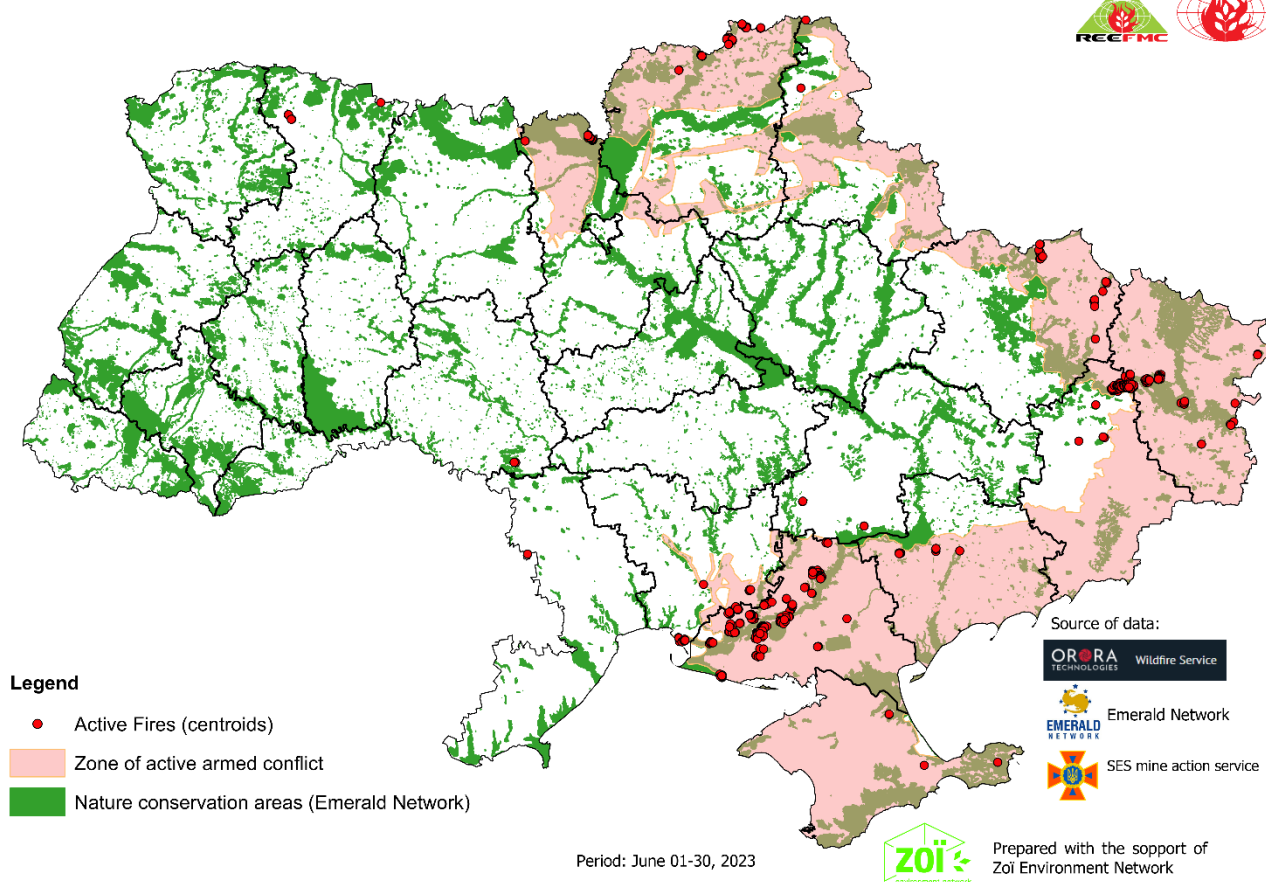


Table 2. Statistics of fires in the areas of nature conservation (Emerald network¹) for the period of 01.06.2023 to 30.06.2023

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	5	0	0	4	1	0
Donetsk	587	556	477	0	31	0
Kyiv	259	201	171	2	56	0
Luhansk	3204	2967	2771	5	232	0
Mykolaiv	474	200	31	0	274	0
Sumy	17	0	0	17	0	0
Kharkiv	1	0	0	0	1	0
Kherson	2775	625	306	118	2032	0
Chernihiv	54	35	28	3	16	0
Total	7376	4584	3784	149	2643	0
<i>Including the Direct Impact of Military Combat Zone³ 60 km (30+30 km)³</i>						
Donetsk	587	556	477	0	31	0
Kyiv	259	201	171	2	56	0
Luhansk	3204	2967	2771	5	232	0
Mykolaiv	390	150	23	0	240	0
Sumy	17	0	0	17	0	0
Kharkiv	1	0	0	0	1	0
Kherson	2775	625	306	118	2032	0
Chernihiv	54	35	28	3	16	0
Total	7287	4534	3776	145	2608	-
%	99	99	100	97	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 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.