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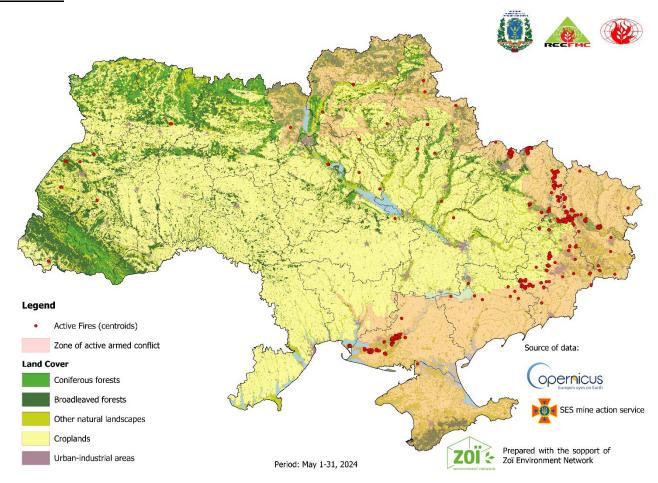
### **Information bulletin<sup>1</sup> № 5**

June 1, 2024

#### FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities  $^2$ ) For the period of  $\underline{01.05.2024}$  to  $\underline{31.05.2024}$ 

# 1. Map of active fires on the territory of Ukraine <u>for the period of 01.05.2024 to 31.05.2024</u>



<sup>&</sup>lt;sup>1</sup> The bulletin was prepared with the financial support of the Swiss organization «Zoï Environment Network» www.zoinet.org

<sup>&</sup>lt;sup>2</sup> 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 01.05.2024 to 31.05.2024

	Numbers of fires	Area of fires, ha	Dis	Area of fires								
Oblast			Forests	coniferous	_	Other natural landscapes	Settlements	in nature conservation zones <sup>1</sup>				
Α	В	С	D	Е	F	G	Н	1				
Crimea	1	3	0	0	0	3	0	0				
Dnipropetrovska	. 1	6	0	0	4	2	0	0				
Donetsk	107	2881	729	588	1465	685	2	698				
Transcarpathian	1	13	1	0	2	10	0	0				
Zaporizhzhya	9	309	11	0	114	184	0	165				
Ivano-Frankivsk	1	8	0	0	0	8	0	0				
Kyiv	3	186	18	16	0	168	0	0				
Kirovograd	1	18	0	0	18	0	0	18				
Luhansk	76	2182	1176	978	469	537	0	1509				
Lviv	9	502	25	0	39	438	0	23				
Mykolaiv	18	188	89	30	0	99	0	188				
Poltava	3	23	2	0	1	20	0	0				
Rivne	2	96	4	0	4	88	0	0				
Sumy	5	39	4	0	22	13	0	0				
Chernihiv	5	55	11	4	7	37	0	0				
Kharkiv	107	2226	341	183	648	1214	23	244				
Kherson	86	5293	2544	597	287	2459	3	3865				
Cherkasy	2	40	0	0	39	1	0	0				
Total, ha	437	14068	4955	2396	3119	5966	28	6710				
Including the Direct Impact of Military Combat Zone												
$60 \text{ km} (30+30 \text{ km})^3$												
Donetsk	101	2527	728	588	1322	475	2	698				
Zaporizhzhya	9	309	11	0	114	184	0	165				
Kyiv	1	17	0	0	0	17	0	0				
Luhansk	74	2134	1176	978	439	519	0	1509				
Mykolaiv	18	188	89	30	0	99	0	188				
Sumy	5	39	4	0	22	13	0	0				
Chernihiv	5	55	11	4	7	37	0	0				
Kharkiv	107	2226	341	183	648	1214	23	244				
Kherson	86	5293	2544	597	287	2459	3	3865				
Total, ha %	406 93	12788 91	4904 99	2380 99	2839 91	5017 84	28 100	6669 99				

Explanatory Note:

<sup>&</sup>lt;sup>1</sup> 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) (<a href="http://emerald.net.ua/">http://emerald.net.ua/</a>).

<sup>&</sup>lt;sup>2</sup> 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).

<sup>&</sup>lt;sup>3</sup> 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 01.05.2024 to 31.05.2024.

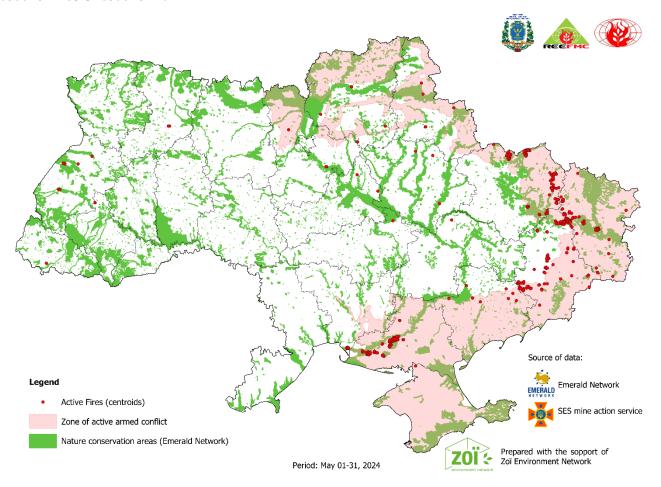


Table 2. Statistics of fires in the areas of nature conservation (Emerald network $^I$ ) for the period of 01.05.2024 to 31.05.2024

	A man of fines	Distribution of fire area by types of landscapes <sup>2</sup> , ha										
Oblast	Area of fires, ha	Forests	Thereof coniferous	Agricultural lands	Other natural landscapes	Settlements						
A	В	C	D	E	F	G						
Donetsk	698	560	493	35	103	0						
Zaporizhzhya	165	11	0	0	154	0						
Kirovograd	18	0	0	18	0	0						
Luhansk	1509	1134	963	46	329	0						
Lviv	23	0	0	14	9	0						
Mykolaiv	188	89	30	0	99	0						
Kharkiv	244	87	54	10	147	0						
Kherson	3865	2171	386	4	1690	0						
Total	6710	4052	1926	127	2531	0						
Including the Direct Impact of Military Combat Zone <sup>3</sup> $60 \text{ km} (30+30 \text{ km})^3$												
Donetsk	698	560	493	35	103	0						
Zaporizhzhya	165	11	0	0	154	0						
Luhansk	1509	1134	963	46	329	0						
Mykolaiv	188	89	30	0	99	0						
Kharkiv	244	87	54	10	147	0						
Kherson	3865	2171	386	4	1690	0						
Total	6669	4052	1926	95	2522	0						
%	99	100	100	75	100	0						

Explanatory Note:

- <sup>1</sup> 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/).
  - <sup>2</sup> Monthly totals in Column B include the area burned of fires over Ukraine (total of columns C, E, F and G).
- <sup>3</sup> 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).

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### 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) (<a href="http://emerald.net.ua/">http://emerald.net.ua/</a>), 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.