

## Landscape Fires Bulletin № 1

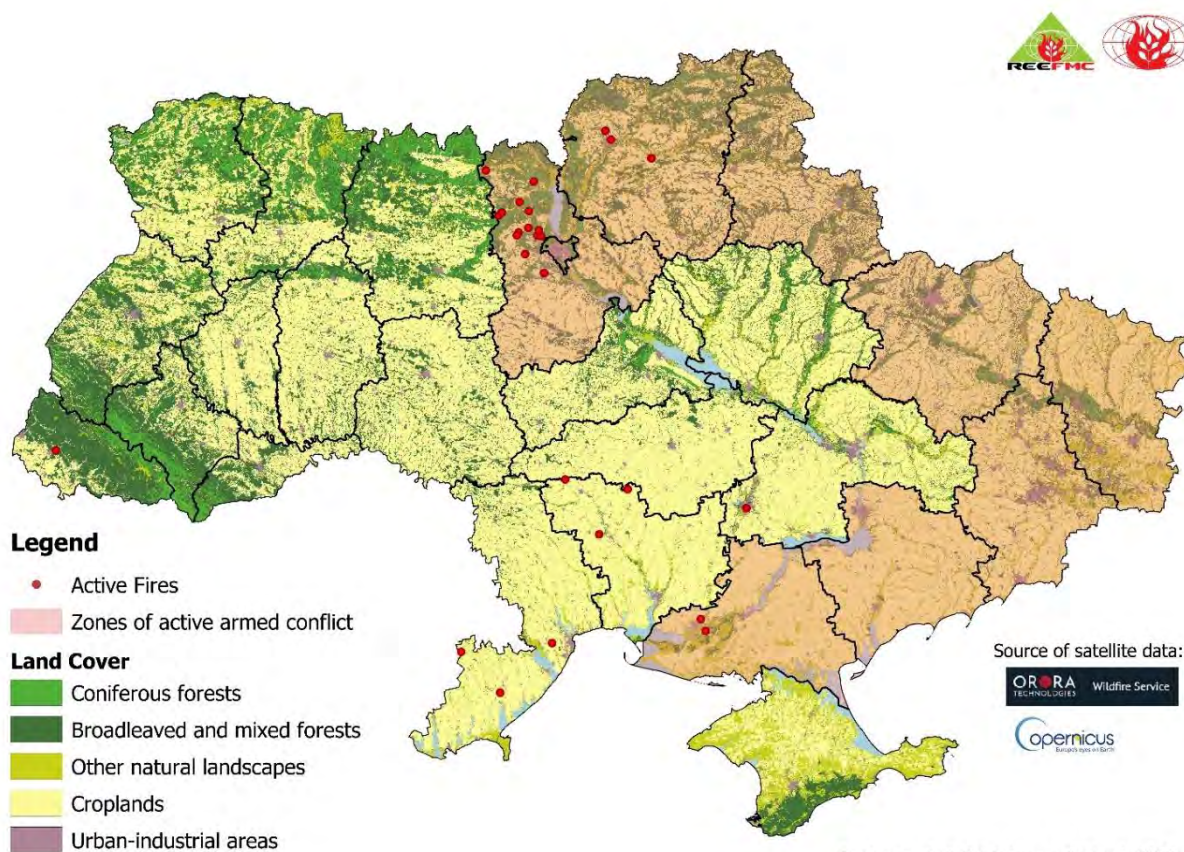
March 03, 2022 p.

### FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities<sup>1</sup>)

for the period of 24.02.2022 to 3.03.2022

#### 1. Map of active fires on the territory of Ukraine for the period of 24.02.2022 to 3.03.2022 ( including 24.02 and 3.03)



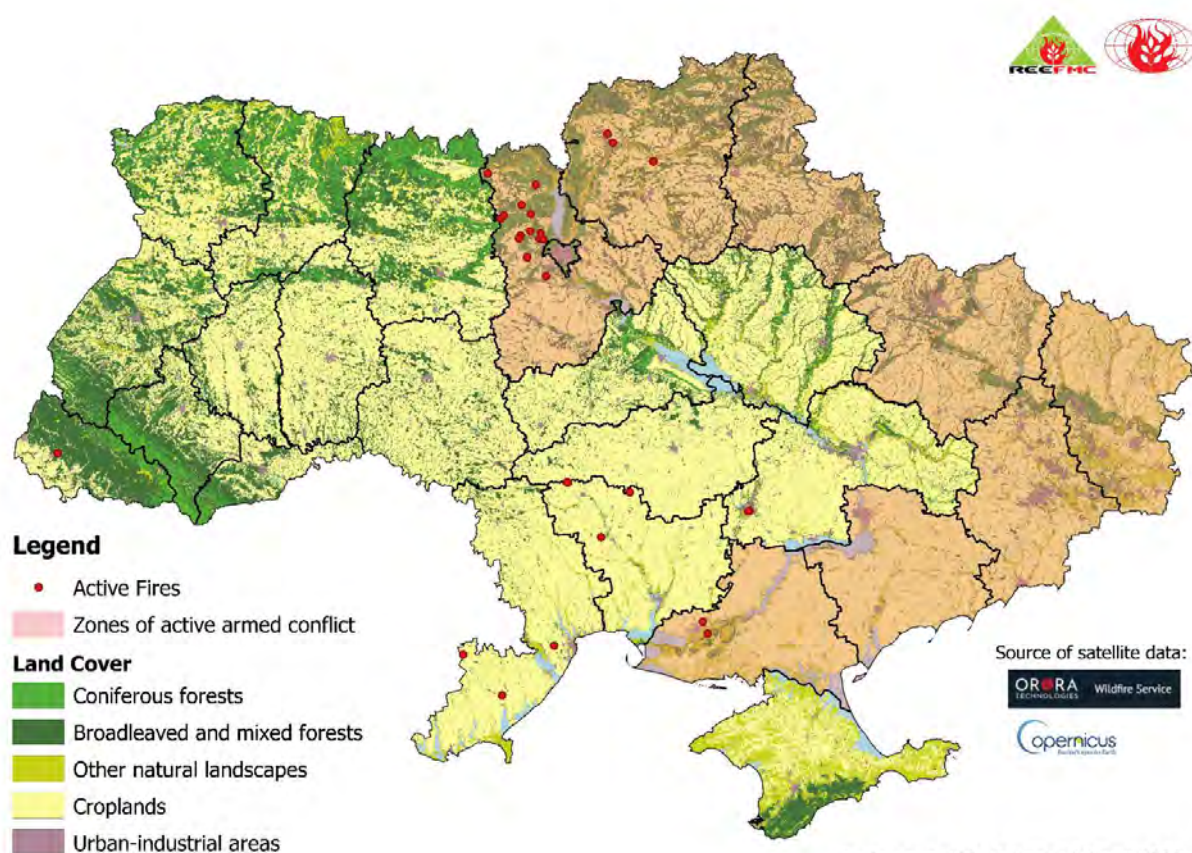
<sup>1</sup> Methodology for fire monitoring is presented on the last paper of this bulletin

**Table 1. Statistics of fires on the territory of Ukraine for the period of 24.02.2022 to 3.03.2022**

Oblast	Total number of fires		Distribution of fire area by types of landscapes, ha				
	number	area, ha	forests	including coniferous	Agriculture lands	Other natural landscapes	Settlements
Dnipropetrovsk	2	134,3	0,0	0,0	0,0	4,7	129,6
Zakarpatska	1	266,6	181,4	0,0	84,7	0,0	0,5
Kyiv*	14	9083,4	2410,8	816,1	4310,7	1577,2	784,7
Kirovograd	1	342,9	1,8	0,0	153,5	37,4	150,2
Mykolaiv	3	831,3	4,5	0,0	624,0	44,4	158,4
Odesa	3	568,8	0,6	0,0	547,3	17,1	3,8
Kherson*	2	799,7	99,4	1,1	313,4	381,0	5,9
Chernihiv*	3	1769,1	399,0	47,5	336,6	194,4	839,1
<b>Total</b>	<b>29</b>	<b>13796,1</b>	<b>3097,5</b>	<b>864,7</b>	<b>6370,2</b>	<b>2256,2</b>	<b>2072,2</b>
Including oblasts with active fighting	19	11652,2	2909,2	864,7	4960,7	2152,6	1629,7

\*Remark: administrative oblasts with active fighting

**2. Map of large fires (> 1000 ha) on the territory of Ukraine for the period of 24.02.2022 to 3.03.2022 (including 24.02 and 3.03)**



**Table 2. Statistics of large fires (>1000 ha) on the territory of Ukraine for the period of 24.02.2022 to 3.03.2022**

Oblast	Total number of fires		Distribution of fire area by types of landscapes, ha				
	number	area, ha	forests	including coniferous	Agriculture lands	Other natural landscapes	Settlements
Kyiv*	2	3046,3	990,2	353,6	1095,5	649,1	311,5
Chernihiv*	1	1128,4	224,7	37	83,0	38,5	782,2
<b>Total</b>	<b>3</b>	<b>4175</b>	<b>1215</b>	<b>391</b>	<b>1179</b>	<b>688</b>	<b>1094</b>
Including oblasts with active fighting	3	4175	1215	391	1179	688	1094

**Table 3. Characteristic of large fires (>1000 ha) on the territory of Ukraine for the period of 24.02.2022 to 3.03.2022**

Coordinates (Y, X)	Oblast	Distribution of fire area by types of landscapes, ha					
		area, ha	forests	including coniferous	Agriculture lands	Other natural landscapes	Settlements
51,52064		1128,					
31,316434	Chernihiv*	4	224,7	37,0	83,0	38,5	782,2
50,669945		1262,					
30,050382	Kyiv*	3	555,6	272,2	335,9	233,9	136,8
50,414991		1784,					
30,000985	Kyiv*	0	434,5	81,4	759,6	415,1	174,7
<b>Total</b>		<b>4175</b>	<b>1215</b>	<b>391</b>	<b>1179</b>	<b>688</b>	<b>1094</b>

### 3. Methodology for fire monitoring

Spatial-temporal analysis of fires in Ukraine was performed using the information service [OroraTech](https://ororatech.com/static/OroraTech_Service_Description.pdf), which, based on data aggregated from 20 satellites, allows to obtain information about fires in a particular area (detailed information about the resource - [https://ororatech.com/static/OroraTech\\_Service\\_Description.pdf](https://ororatech.com/static/OroraTech_Service_Description.pdf)).

To analyze the area affected by fires by type of landscape, we used information on the land cover of [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](https://land.copernicus.eu/global/sites/cgls.vito.be/files/products/CGLOPS1_ATBD_LC100m-V2.0_I2.00.pdf).

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.