Regional Eastern Europe Fire Monitoring Center (REEFMC)

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Information bulletin[1] № 27

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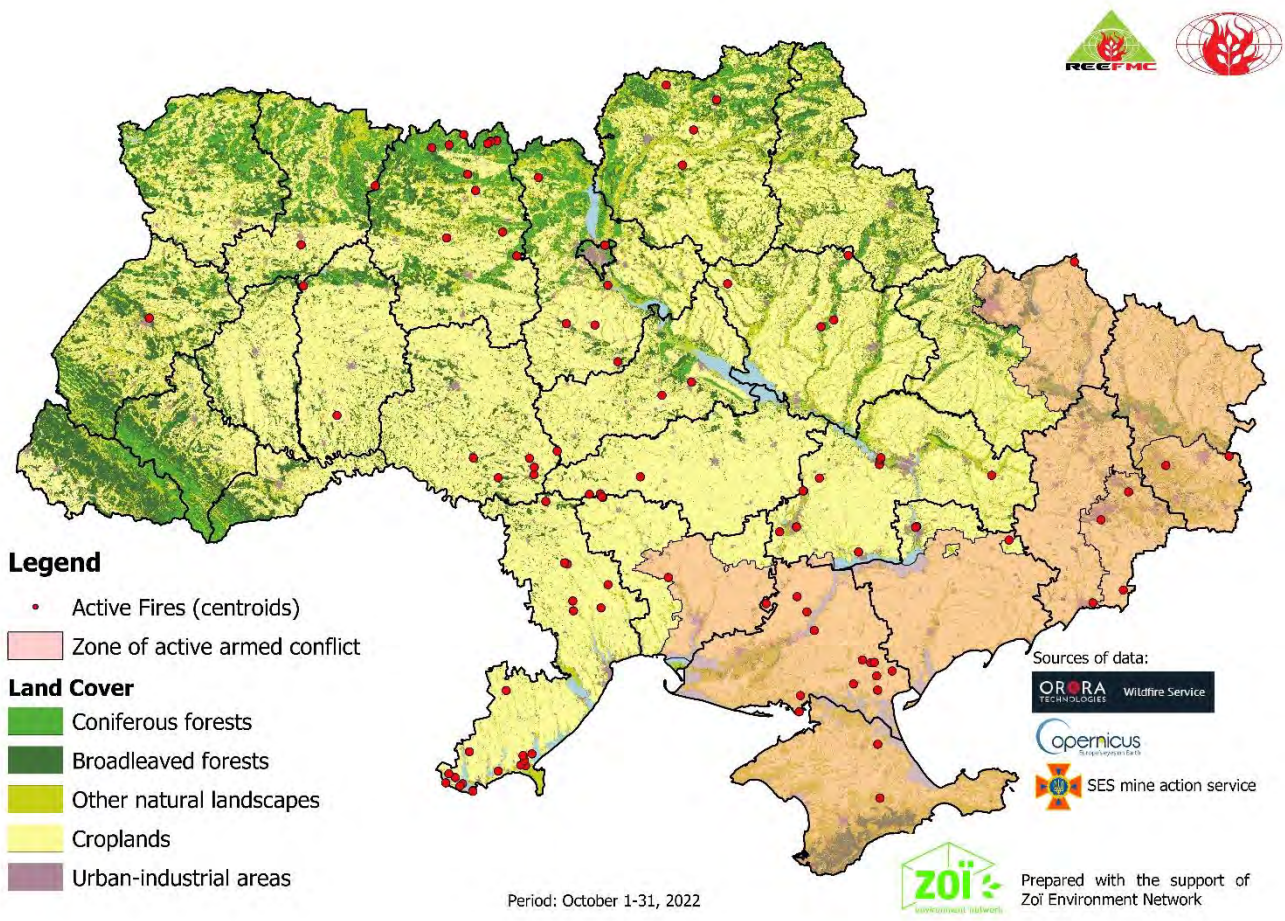
FIRES ON THE TERRITORY OF UKRAINE

(in ecosystems, agricultural lands and in cities [2])

For the period of 01.10.2022 to 31.10.2022

1. Map of active fires on the territory of Ukraine for the period of 01.10.2022 to 31.10.2022



[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 01.10.2022 to 31.10.2022

Oblast	Numbers of fires	Area of fires, ha	Distribution of fire area by types of landscapes, ha					Area of fires in nature conservation zones[1]
			forests	including coniferous	agriculture lands	other natural landscapes	settlements	
Crimea	3	1511	0	0	548	963	0	476
Vinnytsia	8	936	102	0	688	59	87	26
Dnipropetrovsk	10	5899	98	7	1873	1759	2169	464
Donetsk	5	988	2	0	589	125	272	19
Zhytomyr	18	2621	2107	1705	48	454	12	735
Zaporizhzhia	4	2508	44	0	476	280	1708	30
Kyiv	7	765	204	163	64	127	370	59
Kirovograd	5	1609	4	0	1304	56	245	0
Luhansk	3	1967	20	0	355	288	1304	71
Lviv	1	190	0	0	11	28	151	0
Mykolaiv	5	779	0	0	255	524	0	352
Kyiv	1	209	101	84	0	71	37	0
Odesa	24	19598	96	0	6048	13107	347	5304
Poltava	5	1097	363	291	594	134	6	195
Rivne	3	133	0	0	35	26	72	1
Kharkiv	2	318	10	0	246	60	2	0
Kherson	19	5605	10	0	4117	1454	24	225
Khmelnytskyi	3	181	105	38	59	15	2	22
Cherkasy	3	1219	374	196	555	269	21	0
Chernihiv	5	1331	448	152	482	401	0	107
Total, ha	**134**	**49464**	**4088**	**2636**	**18347**	**20200**	**6829**	**8086**
Including on dangerous and occupied territories								
Crimea[2]	3	1511	0	0	548	963	0	476
Donetsk[2]	5	988	2	0	589	125	272	19
Zaporizhzhia[2]	1	119	0	0	119	0	0	0
Luhansk[2]	3	1967	20	0	355	288	1304	71
Mykolaiv[2]	2	539	0	0	191	348	0	266
Kharkiv[2]	1	294	10	0	225	57	2	0
Kherson[2]	17	5605	10	0	4117	1454	24	225
Total, ha	**32**	**11023**	**42**	**0**	**6144**	**3235**	**1602**	**1057**
%	**23,9**	**22,3**	**1,0**	**0,0**	**33,5**	**16,0**	**23,5**	**13,1**

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] The zone of military operations and occupied territories obtained according to the official information of the State Emergency Service of Ukraine - Interactive map of territories that could potentially be contaminated by explosive objects (https://mine.dsns.gov.ua/).

2. Map of fires in the areas of nature conservation (Emerald network) for the period of 01.10.2022 to 31.10.2022

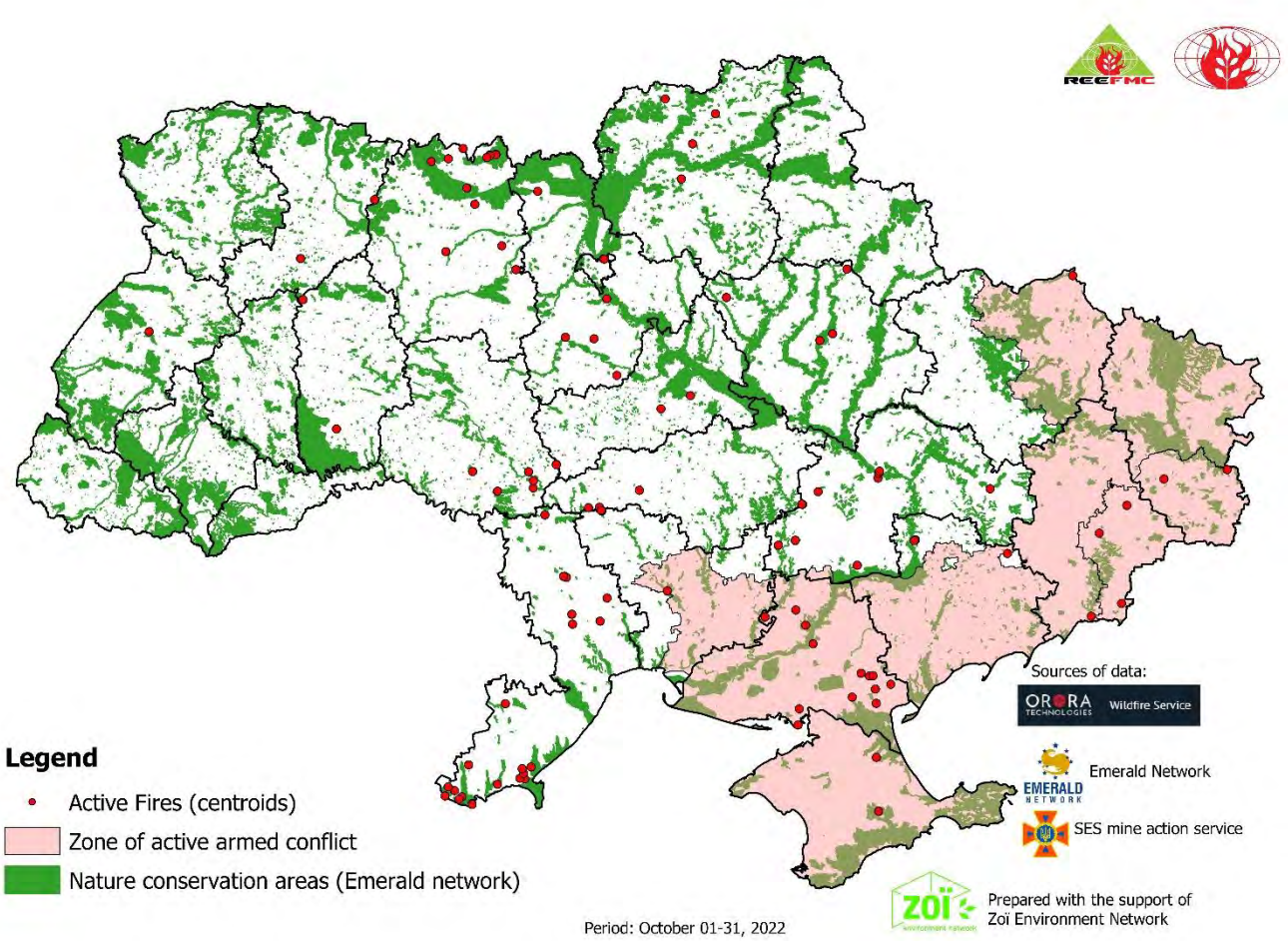


Table 2. Statistics of fires in the areas of nature conservation (Emerald network) for the period of 01.10.2022 to 31.10.2022

Oblast	Area of fires, ha	Distribution of fire area by types of landscapes, ha				
		forests	including coniferous	agriculture lands	other natural landscapes	settlements
Crimea	476	0	0	34	442	0
Vinnytsia	26	26	0	0	0	0
Dnipropetrovsk	464	0	0	369	83	12
Donetsk	19	0	0	18	1	0
Zhytomyr	735	649	532	0	86	0
Zaporizhzhia	30	5	0	0	23	2
Kyiv	59	55	55	0	4	0
Luhansk	71	0	0	39	32	0
Mykolaiv	352	0	0	92	260	0
Odesa	5304	12	0	13	5279	0
Poltava	195	178	145	0	17	0
Rivne	1	0	0	0	1	0
Kherson	225	0	0	32	193	0
Khmelnytskyi	22	20	19	0	2	0
Chernihiv	107	103	0	0	4	0
Total, ha	**8086**	**1048**	**751**	**597**	**6427**	**14**

Oblast	Area of fires, ha	Distribution of fire area by types of landscapes, ha				
		forests	including coniferous	agriculture lands	other natural landscapes	settlements
Including on dangerous and occupied territories						
Crimea[2]	476	0	0	34	442	0
Donetsk[2]	19	0	0	18	1	0
Luhansk[2]	71	0	0	39	32	0
Mykolaiv[2]	266	0	0	92	174	0
Kherson[2]	225	0	0	32	193	0
Total, ha	**1057**	**0**	**0**	**215**	**842**	**0**
%	**13,1**	**0,0**	**0,0**	**36,0**	**13,1**	**0,0**

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] The zone of military operations and occupied territories obtained according to the official information of the State Emergency Service of Ukraine - Interactive map of territories that could potentially be contaminated by explosive objects (https://mine.dsns.gov.ua/).

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3. Methodology for fire monitoring

Spatial-temporal analysis of fires in Ukraine was performed using the information service OroraTech, 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) .

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", 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.