

European and Mediterranean Major Hazards Agreement (EUR-OPA)

78th Joint Meeting of the Committee of Permanent Correspondents and
Directors of the Specialized Centers – Paris – 17-18 November 2022



Global Fire Monitoring Center (GFMC)

Project Results 2022

Plans for 2023

Johann Georg Goldammer



The Global Fire Monitoring Center (GFMC)

Retrospective of Results 2021

- Ukraine, Greece and Western Balkans: Landscape Fire Management Strategies
- World Forum on Democracy: Involvement of Civil Society in Wildfire Prevention
- Cooperation in Europe and Central Asia: European Platform for Disaster Risk Reduction (EFDRR) 2021

Results 2022 and Plans for 2023

- UNDRR: Sendai Framework Mid-term Review and GPDRR 2022
- Development of an International Framework on Landscape Fire Management

Retrospective of Results 2021 (I)



Example Holistic Landscape-level Approach in Fire Management: Ukraine

- Development of recommendations for fostering the national inter-agency and civil society cooperation in fire management, notably address agricultural burning as the main cause of wildfires affecting the landscape and source of atmospheric pollution

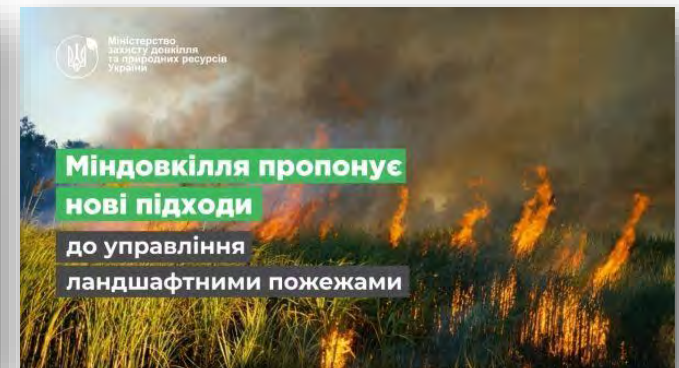
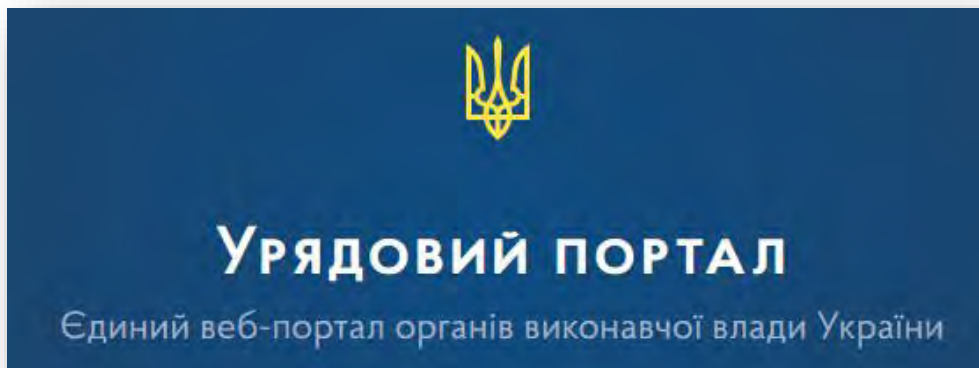


Retrospective of Results 2021 (II)



Example Holistic Landscape-level Approach in Fire Management: Ukraine

- 2017-2019: National Round Tables on Fire Management Fires in the Natural and Cultural Landscapes of Ukraine
- 2020: Creation of two Working Groups in the Parliament and under Ministry for Environment to develop a National Strategy for Landscape Fire Management in Ukraine
- Summer 2021: Public hearing of the draft Strategy



Retrospective of Results 2021 (III)

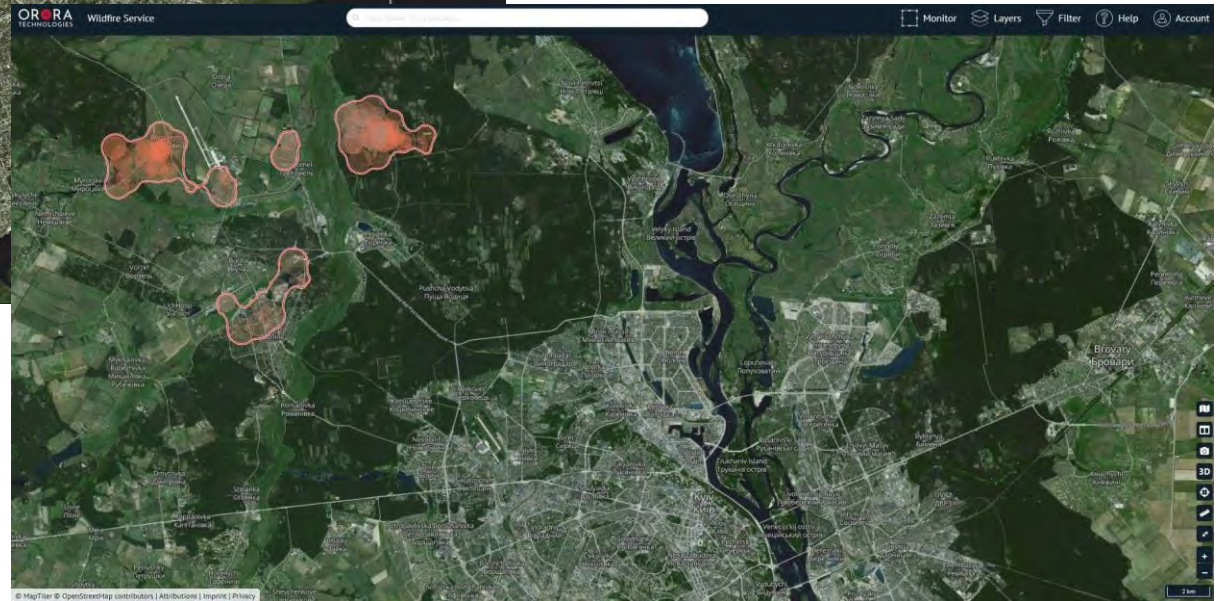
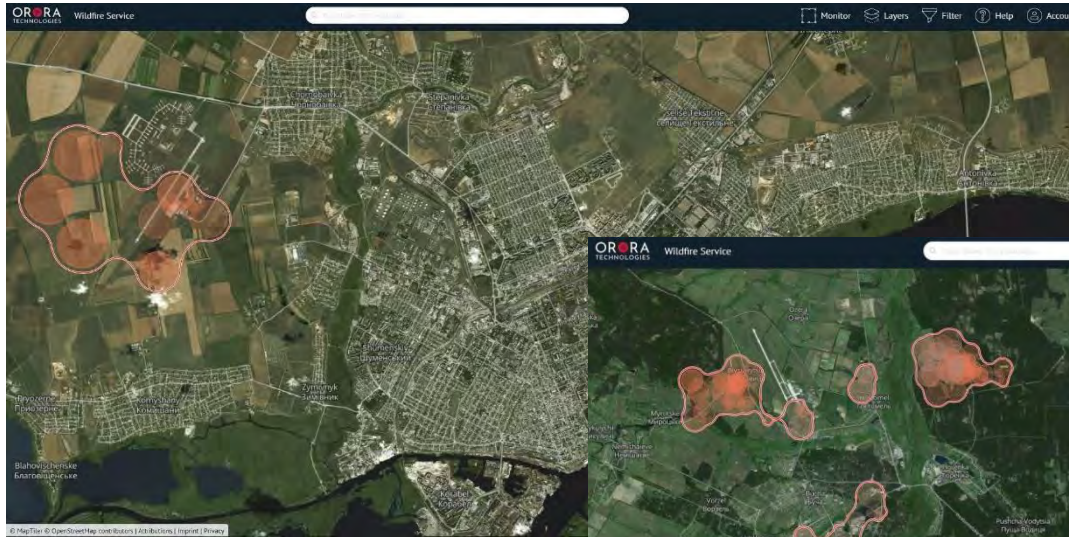


Summer 2021: Pilot – Capacitation of local communities in participatory fire management and self-defense of villages against wildfires: Forest Fire School for Volunteers of Sievierodonetsk, Luhansk Oblast, Ukraine



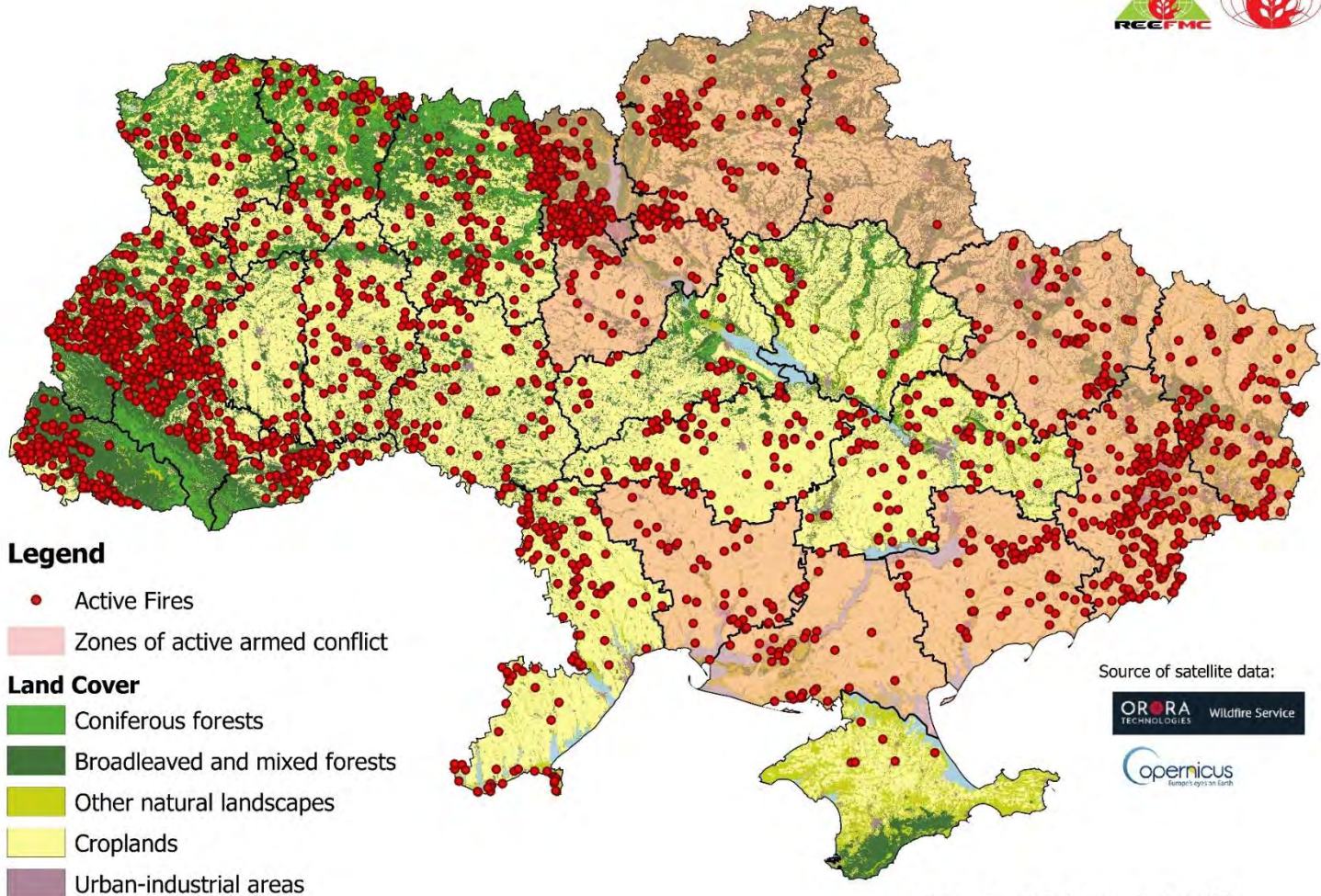
Setback in 2022 (I)

Wildfire and urban-industrial fire monitoring since end of February 2022



Wildfire monitoring during the war in Ukraine 2022

Example of regular mapping: Accumulated 24 February – 21 April 2022



Legend

- Active Fires
- Zones of active armed conflict

Land Cover

- Coniferous forests
- Broadleaved and mixed forests
- Other natural landscapes
- Croplands
- Urban-industrial areas

Source of satellite data:



Review period: 24 February-21 April 2022

Luhansk und Donetsk, Ukraine, April 2022



Monitoring of collateral damages caused by the war in Ukraine 2022



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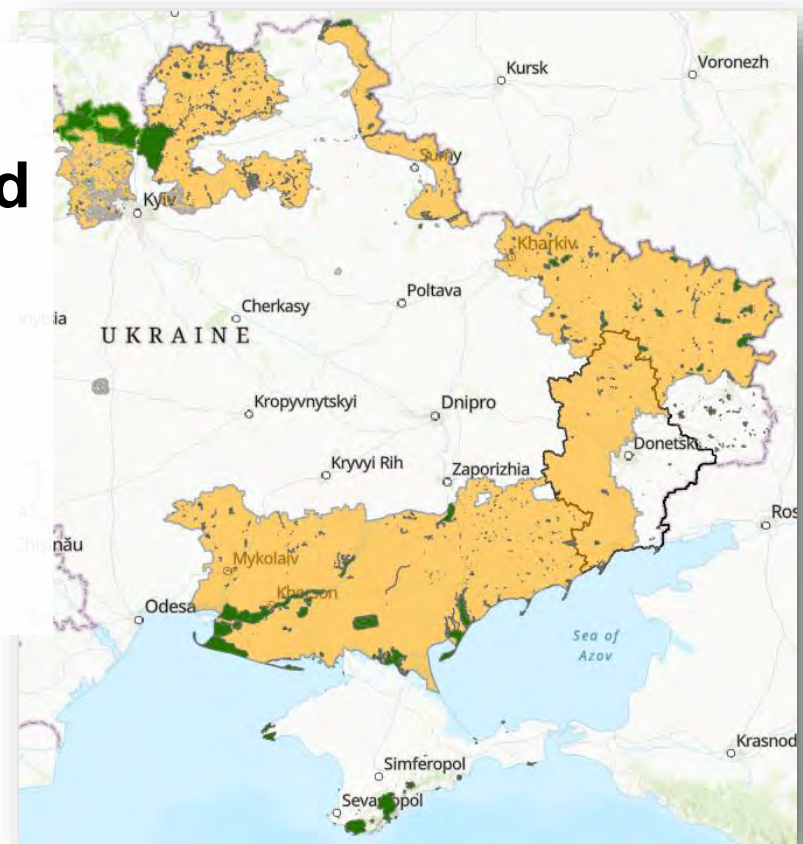
Monitoring of Landscape Fires between 24 February and end of July 2022)
Update mid-October 2022: Total burned area: 1.6 m ha – Forest: >300.000 ha
 Source: REEFMC (2022)

Month		Total Landscape Fires		Distribution by Fire Type				
		Number	Area, ha	Forests	Including Conifers	Agriculture	Other landscapes	Settlements
February-March	Total	2036	1027669	109217	34853	537304	325252	55896
	Incl. war zone	725	484210	46595	21563	244979	157508	35128
April	Total	279	104913	8878	2717	53376	29396	13263
	Incl. war zone	125	64957	6715	2386	27184	20946	10112
May	Total	395	261960	100682	69757	58971	82493	19814
	Incl. war zone	193	170030	74381	52659	25191	55665	14793
June	Total	241	150054	51059	33541	35517	44788	18690
	Incl. war zone	196	134443	48522	32299	29920	40594	15407
July	Total	908	596807	43518	26400	427180	104903	21206
	Incl. war zone	688	504563	37675	23453	356686	92752	17450
Total		3859	2.141.403	313.354	167.268	111.2348	586.832	128.869
Incl. war zone		1927	1.358.203	213.888	132.360	683.960	367.465	92.890

Impact of war on Protected Areas in Ukraine



- **1426 Protected areas affected**
- **Contamination by UXO and land mines: ca. 1.1 million ha**
 - 5 Nature Reserves (14 197 ha)
 - 3 Biosphere Reserves (334 217 ha)
 - 15 National Parks (270 098 ha)
 - 15 Landscape Parks (125 972 ha)
 - 739 Biotopes (328 537 ha)
 - Other protected areas (27 406 ha)



Main impacts of the war on fire management and local communities



- Threat for life of foresters and population dependent from non timber forest products
- Cases of fatalities due to UXO of forests visitors
- Fire aviation, detection by cameras, use of UAV, patrolling prohibited due to security or safety reasons.
- Long-term (decades) contamination with UXO (shelling, mines, bombing, incl. cassette, rockets)
- Contaminated areas not accessible for forestry, fire management (prevention / suppression / detection), pest management etc.



Retrospective of Results 2021 (VII)



European Forum for Disaster Risk Reduction 2021

- Side Event “Strengthening Governance in Landscape Fire Management” (26 November 2021) – with
 - Global Fire Monitoring Center (GFMC)
 - Agency for Integrated Wildfire Management (AGIF), Portugal
 - EUR-OPA Secretariat (**Chair**)
 - OSCE – Environmental Co-operation Unit



Retrospective of Results 2021 (VII)

Main Priorities Identified

- Strengthening inputs and responsibility of civil society to become active in sustainable fire management and protection / defense of private and communal assets against wildfire
- Development of national landscape fire management policies
- Development of an international instrument, tentatively called **“International Landscape Fire Management Framework”**



Project Activities 2022 (I)

Main theme to be addressed by GFMC / EUR-OPA in 2022

- Facilitation and preparation of the development of the “International Landscape Fire Management Framework”

Vehicles

- UNDRR: Sendai Framework: Mid-term Review (2022-2023)
- Global Platform for Disaster Risk Reduction (GPDRR), Indonesia, May 2022



Project Activities 2022 (II)

Global Platform for Disaster Risk Reduction (GPDRR), Bali, Indonesia, 27 May 2022



The image shows a webpage for a EUR-OPA event. At the top left, there are logos for EUR-OPA (Major Hazards Agreement) and the Council of Europe. The main text in the center reads: "Midterm Review Plenary 3: Rethinking sustainable development; investing with strategic foresight to build resilience 27 May 2022". Below this, it says "Written Statement by Mr Krzysztof Zyman, Executive Secretary, European and Mediterranean Major Hazards Agreement (EUR-OPA) of the Council of Europe". On the right side, there is a navigation menu with "REGISTRATION", "PORTO", and "MY AC" and a large image of green trees.

- Presentation and support of the proposal for the development of an “International Landscape Fire Management Framework” by EUR-OPA Secretariat

Project Activities 2022 (III)

8th International Wildland Fire Conference, Portugal, 16-19 May 2023



- Development of Principles for Fire Management Governance in the frame of an “International Landscape Fire Management Framework”

Project Activities 2022 (IV)

**8th International Wildland Fire Conference, Portugal,
16-19 May 2023**



- Announcement of the conference by Portugal's Prime Minister Costa at COP-27 in Sharm-el-Sheik, 08 November 2022

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Thanks for Your Attention



The Global Fire Monitoring Center (GFMC)