



**Damage to the environment of  
Ukraine caused by armed conflict:  
methodologies of assessing  
damage to environmental  
components, further steps.**

Kyiv, 2022

# Environmental damage

- ➔ more than **2239 cases** of environmental damage recorded;
- ➔ **2,9 mln** hectares of the Emerald Network sites under threat of destruction;
- ➔ **20%** protected areas in Ukraine under the threat;
- ➔ **37,8 EUR bln** estimated losses including damage from air pollution and damage to soil;

# Greenhouse gas emissions caused by war

- ▶ at least **33 million tons of CO<sub>2</sub>eq** the total estimate of greenhouse gas emissions directly related to Russia's armed aggression against Ukraine;
- ▶ **49 million tons of CO<sub>2</sub>eq** potential emissions of greenhouse gases due to the reconstruction of infrastructure and buildings destroyed or damaged during war

\* The aggressor country must bear responsibility for greenhouse gas emissions generated by its actions

# Emissions of greenhouse gases from fires

**23424 thousand tons of CO<sub>2</sub>eq total emissions:**

- ➔ **16 340** emissions from forest fires;
- ➔ **2 632** emissions from fires in artificial;
- ➔ **4 098** emissions from agricultural fires;
- ➔ **354** emissions from fires of other natural components.

# Damage to natural reserves and protected ecosystems

- Under threat of destruction:
  - 160** Emerald Network Sites = 2,9 mln hectares;
  - 16** Ramsar sites = 627,3 thousands of hectares;
- **20%** of protected areas in Ukraine are affected by the war;
- **812** protected areas under threat;
- **0,9** mln hectares of protected areas suffer from the effects of war;
- **10 national parks, 8 nature reserves, 2 biosphere reserves are under occupation**

# Damage to biodiversity

## under the threat are:

- ▶ approximately 600 animal species;
- ▶ approximately 700 species of plants and fungi including included in the Red Book;
- ▶ since February 24, documented: 120 deaths of representatives of the dolphin family in the Ukrainian part of the Black Sea;
- ▶ at least 15 cases of animal ejections;
- ▶ 2 cases with indirect signs of death in fishing gear.

\* criminal proceedings have been opened for the fact of mass destruction of objects of the animal world





# Global Platform for the Assessment of Damage to the Environment from Military Actions

## UKRAINE COMPREHENSIVELY ASSESSES WAR DAMAGE:

- 7 methodologies of assessing damage to environmental components have been developed
- collection and access to information on environmental damage is ensured via 'EcoZagroza' app

## GOALS OF THE PLATFORM:

- To unify international approaches to determining damage and assessing damage to the environment and climate
- Deepen international partnership to redress environmental and climate damage from armed conflicts
- Track the scale of the negative global impact of armed conflicts on the environment and climate change
- Strengthen international cooperation to restore the environment affected by armed conflicts



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