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***Assoc. Prof. Dr. Shurubu KAYHAN
Dr. Esra KOÇAK***

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***PROCEEDINGS
BOOK***



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adapted by Mariam Rasulan

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**ALGORITHM FOR ENVIRONMENTAL DAMAGE AMOUNT DETERMINING FROM
MILITARY ACTIONS FOR THE ENTIRE TERRITORY OF UKRAINE**

Olena Sierikova, PhD

National Scientific Center «Hon. Prof. M.S. Bokarius Forensic Science Institute»

ORCID: 0000-0003-0354-9720

Abstract

The problem of determining the extent of environmental damage from military operations in Ukraine is complex and multifaceted. Military operations cause serious damage to ecosystems, there is a loss of biodiversity, a change in the natural habitats of plants and animals, contamination of soil, water and air with toxic substances and heavy metals as a result of explosions [1]. Determining the extent of environmental damage is complicated by insufficient information about the scale and nature of damage, especially in areas of active military operations, the lack of standardized assessment methods and comprehensive approaches to solve such problems. The costs of restoring damaged ecosystems and restoring natural resources could be enormous, which will negatively affect the economic situation in the country. To restore the natural environment, Ukraine might need international assistance with the involvement of international investments and restoration programs. The lack of clear assessments complicates the process of determining those responsible for the damage, which could affect legal consequences and compensation [2]. Therefore, the problem of determining the amount of environmental damage from military actions in Ukraine is complex and requires a comprehensive approach, including scientific research, development of new assessment methods, as well as active involvement of international partners to solve environmental problems caused by the conflict. The paper proposes to determine the amount of environmental damage from military actions for the entire territory of Ukraine using an algorithm that, unlike others, takes into account the state of the nature reserve fund (NRF) and the degree of damage to various types of NRF objects to assess the amount of environmental damage from the effects of military actions.

The algorithm has been presented in Fig. 1.

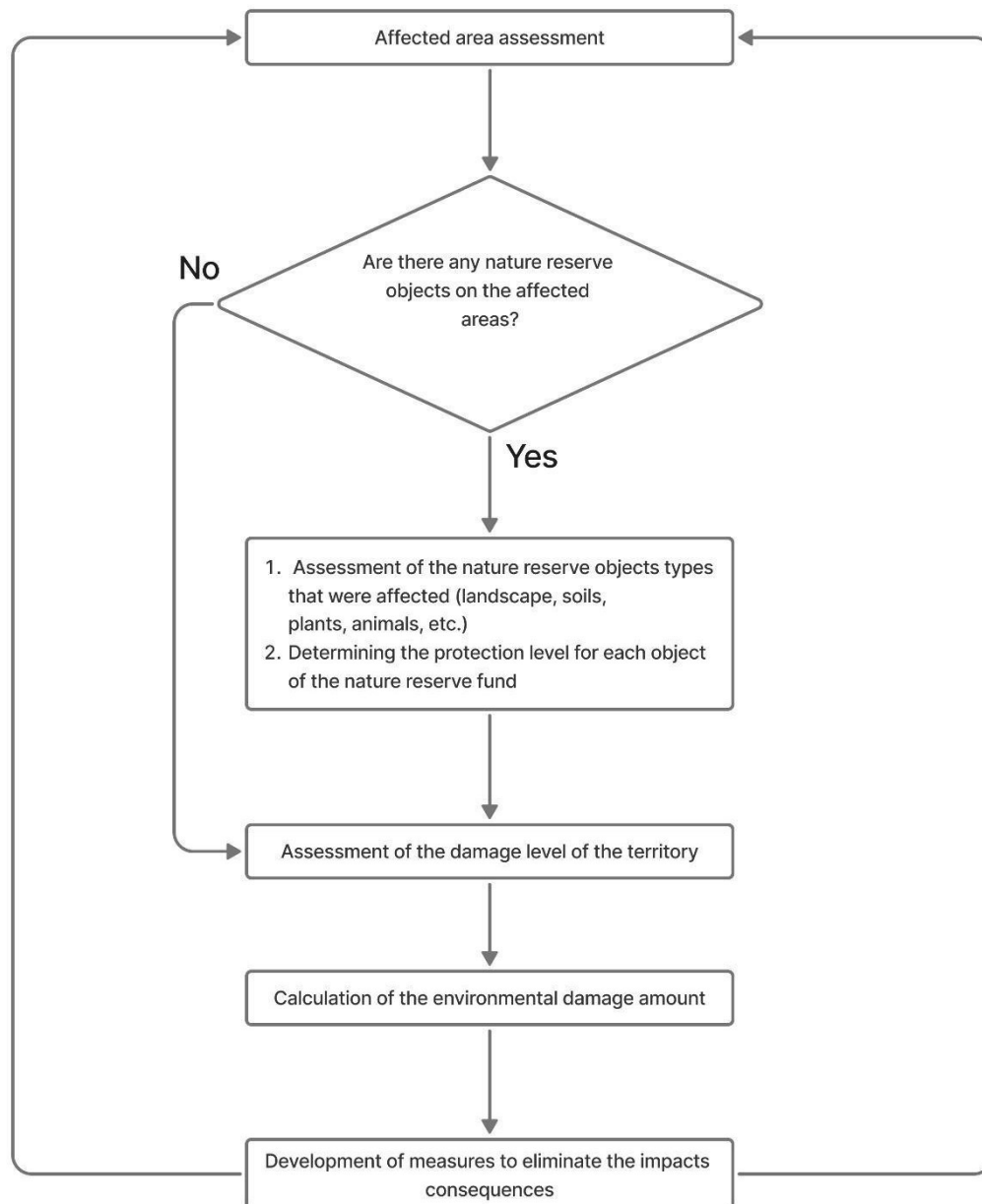


Fig. 1. – Algorithm for environmental damage amount determining from military actions for the entire territory of Ukraine.

The Algorithm for environmental damage amount determining from military actions for the entire territory of Ukraine has been presented on the figure. This algorithm, unlike others, takes into account the state of the NRF and the degree of damage to various types of NRF objects when estimating the amount of environmental damage from the effects of military operations. A description algorithm work has been presented below [1].

1. Affected area assessment

The assessment of the affected area by military actions is carried out in order to determine the area and degree of damage to the area as a result of military actions, to determine the damage caused to the environment and to determine the needs for restoration and rehabilitation of the area to ensure the ecological safety of the affected areas and their further use for their intended purpose.

2. Determination of the area and degree of damage to the areas and objects of the NRF as a result of military actions.

The first priority is to determine the object types of the nature reserve fund that have been affected by military actions (landscapes, soils, plants, animals etc.), to clarify the regime of the areas and objects of the NRF.

According to the Law of Ukraine "On the Nature Reserve Fund", the regime of territories and objects of the nature reserve fund is a set of scientifically substantiated environmental requirements, norms and rules that determine the legal status, purpose of these territories and objects, the nature of permissible activities in such territories and objects, the procedure for protection, use and reproduction of their natural complexes.

It is necessary to determine the protection level for each NRF object (international, national, regional, local) that has been damaged. Distribute the levels of protection into several categories (for example, high, medium, low), or establish the coefficient of the region protection or the percentage of region protection.

4. Assessment of the damage level of the territory

It has been proposed to determine the damage level for each region or zone, distribute the levels of damage into several categories (for example, high, medium, low).

5. Calculation of the environmental damage amount

Calculation of the damage amount for each region or zone based on the protection level, object type of the nature reserve fund and the damage level.

Formula for calculating the damage amount could be the next:

Damage = (Protection Level x Object Type x Damage Level) x Damage Area

6. Calculation of the total damage amount

Calculate the total damage amount for the entire territory of Ukraine by summing the damage amounts for each region or zone.

The development of measures to eliminate the consequences of the effects of military actions on the environment has been carried out depending on the determination of the environmental damage amount, taking into account the effects of prolonged action based on assessments and forecasts of the environment state of the affected territories.

Therefore, the algorithm for determining environmental damage from military actions is an important tool for assessment, monitoring and restoration, which will help Ukraine overcome the consequences of the conflict and stabilize the environmental situation in the country.

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