

ABSTRACT BOOK

CUKUROVA 8th INTERNATIONAL SCIENTIFIC RESEARCHES CONFERENCE

April 15-17, 2022 - ADANA, TURKEY

EDITORS

Dr. Kübra İRDAY DEMİR

Dr. Mehmet Cenk BELİBAĞLI

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SURVIVAL ART IN ECOLOGICAL CATASTROPHE CONDITIONS

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Survival in uncertain conditions is important during the technogenic environmentally hazardous impacts on the environment, during environmental disasters and unstable situations.

The conditions with sharp technogenic impacts on the all environment components have been considered. There are a crucial problems with disrupted communications, cessation of water, light and heat in residential buildings (Fig. 1), hazardous technogenic objects ignition (Fig. 2), uncontrolled the fires spread to the surrounding area and residential buildings, oil storage tanks explosions (Fig. 3.), artificial earthquakes and other [1-2].



Fig. 1. Heating system violation.



Fig. 2. Dangerous technogenic objects ignition.



Fig. 3. Oil storage tanks explosions.

Destroyed dams, bridges, roads (Fig. 4.) and other important components of urban infrastructure all of this are the significant contributor to the pollution of surface waters and groundwater, soil and air. The air becomes so polluted that the conditions of human life become impossible. Water from underground sources and even from the city's centralized water supply system becomes unfit for consumption due to pollution. The agro-industrial complex in such conditions is completely paralyzed, which will be felt next year, when the country's stocks of crops run out. Contaminated lands will need long-term rehabilitation after massive technogenic impacts [3-5].



Fig. 4. Destroyed railway bridge.

Infrastructure restoration important for the cities livelihood is very slow, and sometimes absent at all. Therefore, many people live without water, light and heat in their homes for weeks. The environmental disaster accompanied by the humanitarian catastrophe.

Most research related to environmental disaster prevention, but there are not proper optimal solutions to the risks and consequences of environmental disasters.

Changes in environmental and social conditions could lead to stressors that hinder the adaptation and recovery of the population. As the last resort, there are too many stressors for survivors, exceeding their resilience and causing them to die. The primarily is to provide the conditions in which critical thinking could be maintained and important decisions made without panicking.

Effective disaster control and management requires the public policies and plans formulation that either change the disasters causes or mitigate their impact on people, property, and infrastructure [6].

Several phases of the catastrophe life cycle have been proposed:

1. **Mitigation:** Disaster mitigation work involves the immediate prevention and / or future emergencies minimization. This requires hazard risk analysis and the application of strategies to reduce the likelihood that hazards will escalate into disasters.
2. **Emergency Preparedness:** Disaster preparedness measures include contingency plans or preparations to help individuals and communities prepare for disaster preparedness. Such preparatory work may include storing food and water or collecting and testing willing volunteers ready to mobilize after the disaster.
3. **Disaster Response:** Disaster response work includes any action taken during or immediately after the emergency, including attempts to save lives and prevent further property damage. Ideally, disaster response involves the implementation of already established disaster preparedness plans. As a rule, this phase of the catastrophic life cycle attracts the most attention. It is also known as "disaster relief".

4. **Disaster Recovery:** Disaster recovery occurs after assessing the damage and actions aimed to return the affected community to the state of disaster or better - and ideally to make it less vulnerable to future risks. Risk identification includes understanding the hazards origin of as well as understanding the vulnerabilities origin. Further efforts could range from physical improvement to educational, training and information campaigns.

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