



The Main School of Fire Service in Warsaw (Szkola Główna Służby Pożarniczej w Warszawie)

III International Scientific Conference
Security, management, medicine and physical culture

Water rescue development direction in Ukraine

Oksana Telak, PhD

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Safety

- State without hazards and risk of good loss, ensuring the being free from adverse events during functioning of systems with compliance of environmental requirements
- Process using available resources, consisting of projects and activities aimed at eliminating or limiting a threat or risk of life, health or property loss and avoiding adverse events or minimizing their effects, which includes forms and methods as well as procedures and algorithms used in rescue



Safety hazards, risks

Hazards to universal security may be caused by forces of nature, including those resulting from events on water areas

The risk is accompanied by human existence, social and individual activities



Citizens' safety

Feeling of safety is one of the most important needs of human being

Safety hazards, including those on water areas, are related to the risk of life and health loss

The aim of EU and PR activities in the field of internal security is keeping the ability to respond in case of threats for the life or health of citizens as well as protection against effects of ransom events

In the Ukrainian Constitution it is noted that life, health and safety of human being are the main social values in Ukraine

Universal safety lies within the competence of public administration

Rivers in Ukraine



- River network is well developed, over 70 000 rivers (131 of them are over 100 km)
- Dnipro (981 km)
- Dnister
- Tysa and Prut (Dunaj), Donec (Don)
- Most rivers flow into Black Sea and Azov Sea
- The southwestern part of Ukraine is located in the Dnister and Buh basin



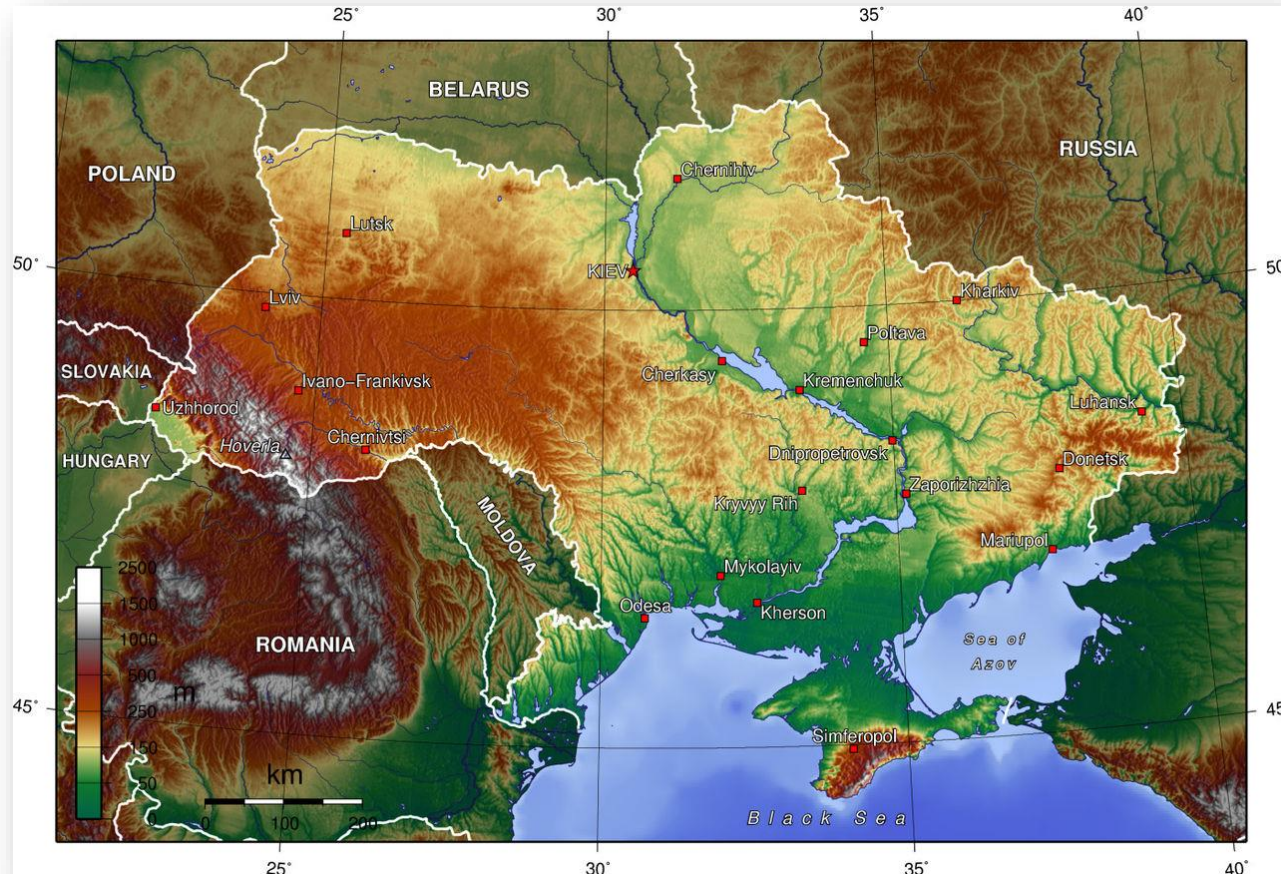
Lakes in Ukraine

- Majority of natural water reservoirs are located in Polissya region and on the flood plain of Danube, Dniro, Dena and Donec rivers.
- The biggest: Sasyk (Kunduk) 210 km², Yalpug – 149 km², Kagul – 90 km²
- The deepest: Svitiaz – 58,4 m
- Many water reservoirs are located on Dniro river:
 - Kyivskyy (922 km²)
 - Kanivskyy (675 km²)
 - Krzemenchutskyy (2250 km²)
 - Dnieprodzerzhynskyy (567 km²)
 - Dniprovskyy (410 km²)
 - Kakhovskyy (2155 km²)



<http://www.abcukraina.pl/geografia-ukrainy/rzeki-i-jeziora.html>

Sea cost in Ukraine



Total length of the sea cost is 2782 km (38% is the border)

https://www.google.pl/?gws_rd=ssl#q=wyrze%C5%BCe+morskie+Ukrainy

International and national information sources



- **UN** – *United Nations Office for Coordination of the Humanitarian Affairs (UN OCHA),*
– *United Nations Economic Commission for Europe (UN ECE)*
- **NATO** – *Senior Civil Emergency Planning Committee (SCEPC),*
– *Civil Protection Committee (CPC),*
– *Euro-Atlantic Disaster Response Coordination Centre (EADRCC)*
- **EU** – *European Commission Directorate-General Environment (ECDGE),*
– *Emergency Response and Coordination Center (ERCC)*
- *Global Disaster Alert and Coordination System (GDACS), Virtual OSSOC*
(<http://vosocc.unocha.org/>)
- Countries, organisations and institutions functioning within the rescue and civil protection field
– on the basis of bilateral agreements
- Crisis management centres, public and local government administration offices
- Monitoring systems (weather, radiological) and special data basis
- Media, Internet

Drowning accidents

According to *World Health Organization* (WHO) there are 400 000 victims from drowning around the world, while in Ukraine there are 1500 drownings annually.

Drowning is the third reason of life loss and constitutes 7% of all fatal accidents .

96% of drownings happens in the countries with low and medium incomes, 43% of which – in China and India.

It is estimated that the cost of life loss because of drowning in the USA is about 270 mln USD annually, in Australia – about 85 mln USD, in Canada – about 173 mln USD

According to some data, the cost of Polish citizen's life is more than 2 mln PLN

How much is the life cost of the Ukrainian citizen?

Floods in Ukraine

2008, flood in the southern-eastern part of Ukraine

- 28 victims
- 15 000 people were evacuated from flooded areas
- about 1 miliard USD of losses

<https://youtu.be/Yf0j7AqQfNY>

2012, flooded Odessa after the storm



2.04.2013, Kyiv, 70 flooded streets

2014, rains in Transcarpathian and Lviv regions (500 houses flooded)

Aid from Poland

Rescue aid

- Ukraine, August 2008 – flood

Humanitarian aid

- Ukraine, March 2001 – flood

Development aid

- Ukraine 2015, Safe water – improvement of local administration and rescue services activities during the response on hazards related to water in Lviv region



Inspiration for the Ukrainian lifeguards

in Austria:

1772 – water rescue society in Vienna

1820 – publication: Karol Hojnic, *Science and art of swimming*, Lviv

in Russia:

1866 – Kronsztad sailors offered to establish marine rescue stations

1871 – Society for providing assistance during ship breakdowns

1872 – Water Rescue Society in St. Petersburg, 1880 Water Rescue Society

1919 - Main Board of Water Transport

1925 - Central Committee for Rescue on Waters, 1931 - Society for the Development of Water Transport and Protection of Human Life on the Waterways of the USSR

1926 - Polish Swimming Association, Rescue Commission based in Siemianowice

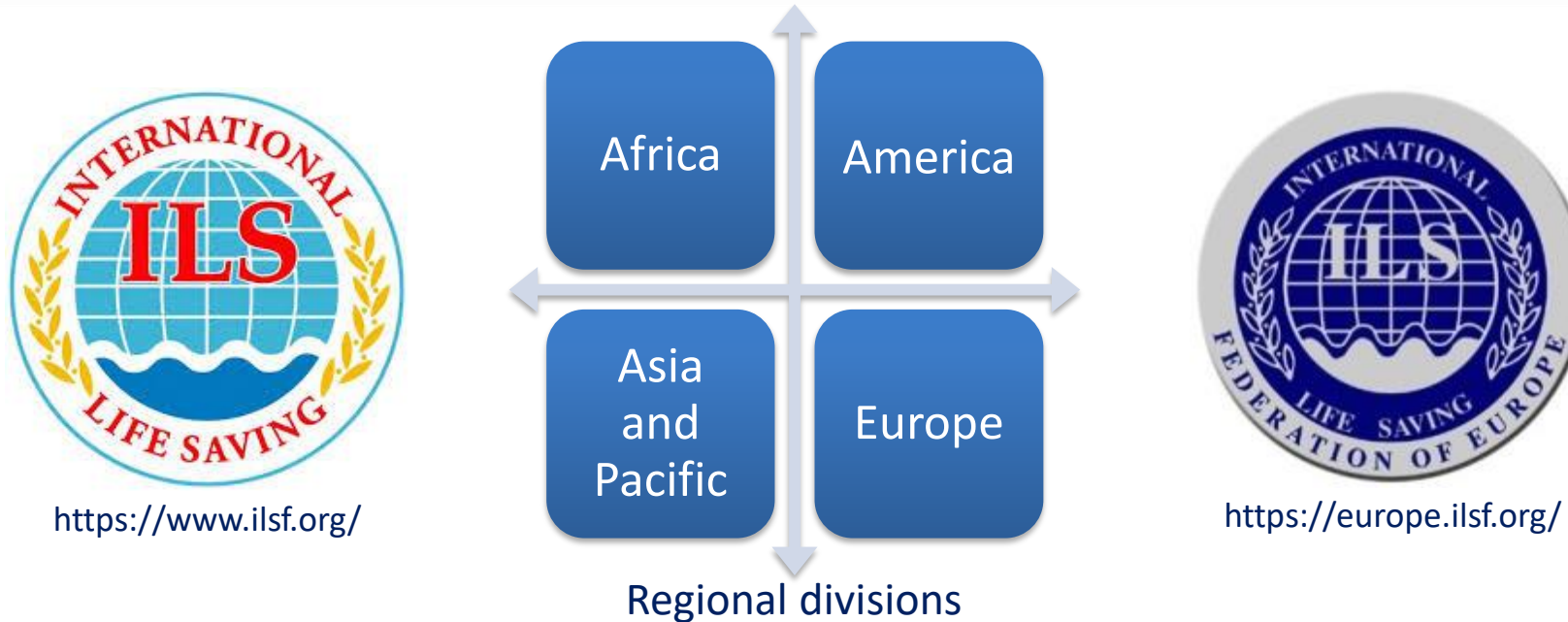
1955 - Volunteer society of the army, aviation and fleet cooperation

1969 - Volunteer water rescue society (OSWOD)

Water rescue units in Ukraine

- 1970 – Republican Society of Water Rescue of the Ukrainian Soviet Socialist Republic
- 1992 – Ukrainian Water Rescue Society (UTRW, ТОВРЯТВОД, Water Rescue Society of Ukraine)
- UTRW's statute provides two types of membership: individual (people), corporate (organizations)
- In 2003, UTRW consisted of the Crimean Republican Council, 24 regional councils, Kyiv and Sevastopol city councils, Diving Rescue Service and Water Rescue Equipment Division
- Councils were divided into 161 district administrations and 2024 basic organizations
- UTRW has over 15,000 individual members and over 100 corporate members

International Life Saving Federation, 1994



works in the area of drowning prevention and development of rescue sport, joining and supporting national organizations that deal with saving human life on water areas (approx. 25 million of lifeguards) with ILS Federation of Europe (approx. 5 million of lifeguards)

Vice President of the ILS Federation of Europe representing organizations from Central and Eastern Europe in 2004-2015 was the president of WOPR

2004 – UTRW was accepted as a full member and the head of it, Oleg Konotopets became a representative in the Directorate of ILS Federation of Europe

Beach Patrol as an example for the development of water rescue unit

Using the achievements of ILS Federation, Australian model of water rescue clubs and German DLRG instructors, with the support of the mayor of Kyiv, Vitaliy Klychko, the first club of lifeguards was created. Initiative of Kyiv citizens led to the establishment of the volunteer project „**Beach Patrol**”.

Its aim: to prevent accidents, protect people and provide safety on water areas, introduce world lifesaving standards in Kyiv, participate in state policy related to water safety, perform rescue activities, develop the system of preparation the qualified rescue staff, technical support for rescue operation

Official registration: 23.12.2015

Member correspondent of ILS



Beach Patrol

Beach Patrol activities:

2016

„Safe week on the beach” (2016)

Visits to school camps in Obolon

Open lectures

Participation in the city event „City of professions”

School of swimming for children

Duck Run event

Charity event for the purchase of rescue equipment

Night Swim Run



Beach Patrol is the first organisation in Ukraine making statistics of saved lives

Beach Patrol

Beach Patrol activities:

2017

Traditional lifesaving festival Lifeguard Fest, Duck Run

Festival of sand figures - Sand Fest

„Month of safety on water”

Lectures at school and on the beach

Sky Park WATER RACE 2017

Youth Day

Day of Rescuer



Legal basis

- In May 2017, there were introduced the rules for life protection on water areas on the basis of Civil Code of Civil Protection of Ukraine as well as Ordinance of the President of Ukraine about urgent measures preventing death on water areas according to the procedures of certification of rescue services and rescuers as well as the plan of main measures of civil accidents for 2017 after confirmation with central executive bodies.
- Rules of human protection on water areas in Ukraine, approved by the Order of the Ministry of Interiors from 10.04.2017 № 301, registered in the Ministry of Jurisdiction of Ukraine on May 4th 2017, № 566/30434, point 5 Ch. 3.

Opinion about rescue state and lifeguards



On the basis of the research conducted in Lviv among 60 respondents:

- 1) System of water rescue in Ukraine functions properly (34), satisfactory (20), very well (4), bad (2).
- 2) System is perfect and does not require any changes (37), everything should be changed (20). Proposition for changes: skills to be worked out in practice.
- 3) Services which should work in the system of water rescue: fire service (25), public structures (17), NGOs (9), established commercial organisations (4), the rest (5) consider, changes are needless.

Water rescue development in Ukraine

EU offers different mechanisms, activities, projects aimed at the assistance for the developing countries. Good example – Polish Aid

2015 – project „**Safe Water** – improvement of local administration and rescue services activities for the response on water hazards in Lviv region”

Activities within the project:

Scientific seminar at Lviv State University of Vital Activity

Training on Zegrze lake for Ukrainian rescuers

Purchase of rescue equipment for the Ukrainian partner

Publication of materials connected with the project topic

Scientific conference „Safety management on water areas”

Results of the project:

Raising awareness within water safety

Improvement of the preparation level of Ukrainian rescuers

Providing modern equipment and technology

Development of cooperation between educational institutions and state organisation

Broadening of knowledge and experience, improvement of practical skills and qualifications

Risk reduction of hazards on water areas

Problems of Ukrainian water rescue: lack of modern equipment and technologies, lack of funds



Results, requirements, conclusions

1. Fire Service of Ukraine should be prepared to perform water rescue activities
2. Lviv State University of Life Safety can develop science and didactics in the field of water rescue
3. Lviv State University of Life Safety, in cooperation with Lviv Department of the Central Rescue and Diving Service, can be a scientific and didactic base for water and diving rescue
4. Difficulty - no swimming skill required during recruitment to the fire service in Ukraine
5. To be elaborated:
 - a concept for the development of the direction of water and diving rescue, a helpful section of water and diving rescue (diver club) and a subject of water rescue
 - Qualifying exam in swimming
 - Strengthening cooperation with the Ukrainian water and diving rescue service
 - Establishment of a water and diving rescue section
 - Establishment of an organizational unit dealing with the issues of water and diving rescue



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Thank you for attention!

Oksana Telak, PhD

The Main School of Fire Service in Warsaw
oksana.telak@gmail.com