Danube Hydrometeorological Observatory

Danube Hydrometeorological Observatory (DHMO), is the structural unit of State Committee for Hydrometeorology of Ukrainian Ministry of Emergency Affairs, was established in September 1960. It comprises 3 hydro-meteorological stations, 14 hydrological stations and three research boats used for surveys in the Danube Delta and the adjacent Black Sea area. It staff consist of 99 persons. DHMO studies the Ukrainian Danube Delta, the adjacent part of the Black Sea and the Lower Danube Lakes.

Research Activities:

- Participation in the National System of Hydrometeorological Monitoring in the Danube Delta and the Adjacent Black Sea Area (1960 - currently)
- joint Ukrainian and Romanian hydrological studies of water and sediments discharge changeability in the Danube Delta (2000-2008);
- development of hydrological substantiation of the navigable channel between the Danube and the Black Sea on the Ukrainian segment of the Delta (2002-2004);
- TACIS Project «Lower Danube Lakes: Sustainable Restoration and Protection of Habitats and Ecosystems » (2000-2003);
- hydrological and hydrochemical monitoring of the Ukrainian part of the Danube Delta under the conditions of restoration and use of the deep navigable channel between the Danube and the Black Sea (2004-2008);
- Tacis Project «Technical Assistance for the Lower Dnister River Basin Management Planning» (2006-2007);
- Tacis Project «Development of Transboundary Cooperation in the Sphere of Integrated Water Resources Management in the Lower Danube Euroregion in the Framework of the Neighborhood Programme «Ukraine – Romania» (2007 – 2009)

The main tasks of the DHMO are the following:

- daily hydrological observations according to the standard programmes on the network of permanent river, lake and sea stations;
- special field surveys to study the natural and anthropogenic changeability of hydrological processes; -daily meteorological observations according to the standard programmes on the meteorological stations;
- forecasting and warning of natural emergency accidents.
- monitoring of river, lake and sea water pollution;
- collecting, processing and analyses of the data from the observations;
- forecasting of the weather conditions and hydrological regime of the Danube River;
- supplying of consumers with hydrometeorological and hydrochemical information and forecasts.

The project will essentially be implemented by:

- Dr. Victor Morozov – team leader – expert in hydrology of the Danube River and the adjacent Black Sea area;
- Mikhail Kornilov – hydrology, data collecting and processing, GIS;
- Olga Krutko – hydrochemistry of the surface and sea waters;
- Alexander Cheroy - hydrology, studies of the delta-formation processes;
- Vladimir Boychuk – oceanography and marine hydrology.

Role in the project:

DHMO is involved in several tasks across the project. First, it will participate in the definition of the climate models to be used to build climate scenarios in the Black sea catchment (task 3.2) and in the data collection for SWAT modelling (task 4.1), and then finally in some case studies in the WP6 on the Black Sea Catchment Observation System.