





## Information concerning water in the Spatial Information Systems in Poland:

- information system of environmental monitoring (soils, water, air)
- information system for the needs of the Geological Map of Poland
- information system for meteorology and water management
- information system for the needs of hydrographic division of the country
- information system concerning swamps and grasslands.
- The national environment monitoring system is connected with the European Environment Information and Observation Network (EIONET) which is a branch of the European Environmental Agency (EEA). The Polish EIONET structures comprise, among others, the Chief Inspectorate of Environmental Protection, the Institute of Meteorology and Water Management, the Ministry of the Environment. The EU Census Bureau (Eurostat) collects through questionnaires comprehensive information about water (water management, water protection).



## History of the Hydrographic Map of Poland (1: 50,000):

- 1951 1968: mapping comprised 19% of country's area
- 1984: the new map began to appear on the foundation of a topographic map of the 1965 coordinate system
- 1994: the 1992 coordinate system came into use
- 2004: the vector map (VMap L 2) was introduced, basing on a new technical directives GIS 3.
- 2006: The Hydrographic Map covers 51% of the area of Poland.

## Other chosen cartographic studies concerning hydrography:

- 1975 1980: The Review Hydrographic Division of Poland (1: 500,000).
- 1980: The Hydrographic Division of Poland (1: 200,000).
- Since 1983: The Geological Economical Map of Poland (1: 50,000), since 1997 fulfills requirements of spatial information system GIS.
- 1987: The Hydrological Atlas of Poland (1: 500,000).
- The Atlas of the Swamps of Poland (accomplished in the nineties) at the scale of 1: 300,000.
- 1996 2004: The Hydrogeological Map of Poland (1: 50,000)
- 2005: The Atlas of the Hydrographic Division of Poland (1: 50,000).









•	The Sozological Map of Poland (1: 50,000) presents human influence on natural environment. Works on a serial Sozological Map of Poland began in 1990.
•	The content concerning degradation of surface water comprises information about:
	sewage discharge (place of outflow, character) exceeding surface water contamination indices (physical, chemical bacteriological)
	quality of surface water in gauging stations (cleanliness classes, exceeding cleanliness norms)
	contamination of coastal water (river water, industrial, municipal and agricultural sewage discharge, etc.).
•	The content referring to the <b>change in water conditions</b> concerns mainly the anthropogenic influence on the rivers and water reservoirs regime – comprising such information as:
	swollen surface water, industrial water reservoirs, fish-breeding ponds, other artificial water reservoirs, the loss of hydraulic links (long–lasting lowering of underground water surface causing, the loss of contact with river water, tightly built–up river beds), anthropogenic distortions of the hydrological regime of the stream, stream hade artificially transformed









