

Hungary

Capital city: Budapest

Inhabitants: 9 Million



INSTITUTIONAL SETTING AND PURPOSE

The General Directorate of Water Management (OVF) is a central government body under the direction and supervision of the Ministry of Interior. It supervises, coordinates and controls the activities of the water directorates.

The National Hydrographic Monitoring Network contains data on surface water and groundwater, as well as precipitations,

snow cover and soil moisture. It has been designed to provide national and local overviews, and an input for prognoses. The collection and assessment of the data are carried out by the regional water management directorates, coordinated by the OVF. The data are measured and processed according to uniform principles.

CHARACTERISTICS OF THE NETWORK

The deep groundwater monitoring network (deeper than 20 m) contains around 550 monitoring stations, while the shallow groundwater network (not deeper than 20 m) contains more than 1500 monitoring stations.

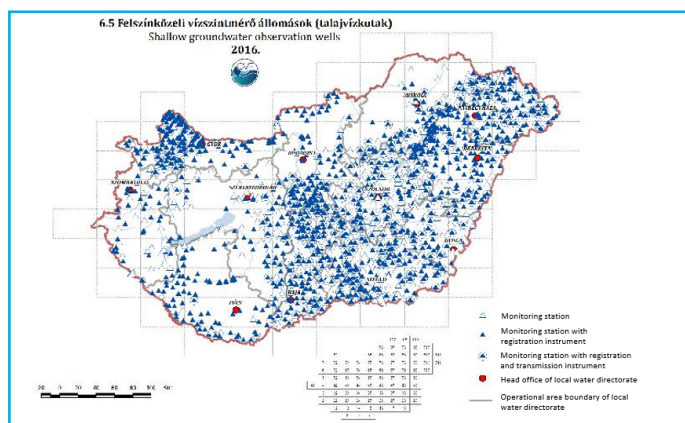


Figure 1 - Shallow groundwater observation wells. Source: OVF

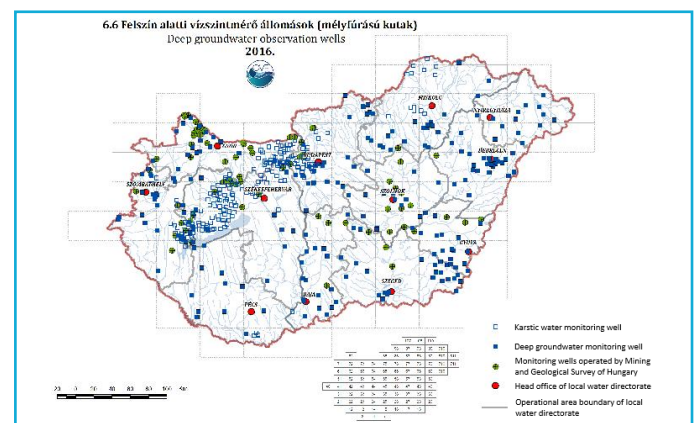


Figure 2 - Deep groundwater observation wells. Source: OVF

PROCESSING AND DISSEMINATION

The National Adaptation Geo-information System (NAGIS) is a platform created to facilitate the policy-making, strategy-building and decision-making process necessary to improve climate change adaptation measures in Hungary. The NAGIS is a source of information on the climate trends of Hungary. The NAGIS GeoDat is a web-application where groundwater level data are shown in a table or a graph format. Data are available in Hungarian for registered users.

Moreover, the Hydrographic Yearbook of the hydrographical service of Hungary, first published in 1887, consist of hydrographic measurements as well as the most important data describing hydrological and hydrometeorological conditions, including a summary introducing the hydrological and hydro-meteorological events and characteristics of the given year. Tables containing daily data of karstic and groundwater levels (shallow and deep) are provided. The spatial location of monitoring networks is shown in thematic maps.

Sources

- Feedback from OVF received on 25-03-2020;
- Hydrographic Yearbooks: <https://www.vizugy.hu/print.php?webdokumentumid=1524>;
- Hungarian General Directorate of Water Management (OVF): <http://www.ovf.hu/en/vizugy-tortenet-en>;
- OVF, Hydrographic monitoring: <http://www.ovf.hu/hu/vizrajzi-monitoring>; and
- NATER Project, NaGIS web application: <https://nater.mbfisz.gov.hu/hu/user/login?destination=cas/login>.