THE INFORMATION SYSTEM OF INTEGRATED MONITORING OF NATURAL ENVIRONMENT:

ARCHITECTURE AND FUNCTIONS OF THE SYSTEM

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*Summary*

The purpose of the Information System of Integrated Monitoring of Natural Environment (Polish acronym: SIMSP) is gathering and processing of large data sets collected as a result of the program of Integrated Monitoring of the Natural Environment (IMNE) conducted on nine stations. The developed system facilitates archiving and validating of measurement results and supports statistical analysis and visualization of the collected measurement data. The core element of the system is a relational database, where all the data are stored, including raw and aggregated measurement results, dictionary data (information about stations, programs, measured parameters, etc.), and data used in the validation process. The system offers two interfaces to the gathered data. For casual users a simple and intuitive web application is provided. Advanced users can use a Microsoft Excel add-in, which communicates with the database using ODBC (Open Database Connectivity).