

FINAL REPORT SWITCH-LODZ / RTD 2007 M: 13-24	
WG I: Analysis of the Water Cycle	
Date:	04/02/2008
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Content:	1. Activities conducted as a part of the project 2. Master theses written in the UL's Department of Hydrology and Water Resources in the period of 2007/2008, under dr Adam Bartnik's tutelage 3. Dates of field trips

1. Activities conducted as a part of the project

- hydrometrical measurements (outcomes attached) conducted every fortnight or more often (during the periods of increased circulation), including: water conditions, flow rate (hydrometer measures), observation of water condition in a well, together with the measurements of water's temperature, conductivity, pH and O₂ (all outcomes attached);
- preparation of a set of GIS maps – determining watersheds of the Sokolowka catchment (numerous mistakes in available compilations were found) on the basis of the numerical model of the area (DTED) and directions of water run-offs;
- determining the range of forestation in the Sokolowka catchment at several points in time (on the basis of archival maps);
- adjusting to our needs the following maps: ones of geologic structure, surface and geomorphological formations;
- creating a set of meteorological observations from Lublinek and a set of observations of flow rate in several monitored points of the river basin (Sokołowska, Drozdowa, Brzoza, Lewa, Folwarczna and Deczyńskiego streets).
- conducting (together with a student) observations and surveys regarding hydromorphological condition of water courses in the Sokolowka catchment (8 RHS segments) – the outcomes will be presented in the student's master thesis;
- conducting measurements of underground waters table's condition in over 100 wells in the area of the Sokolowka catchment, together with a set of documentation regarding hydrogeological parameters of over 400 various points – to be used in the student's master thesis;
- completing the documentation regarding the sewerage system and water-pipe network in the river basin, as well as the water consumption in its particular sections (still in progress);
- creating maps of base permeability, area utilization and rainfalls distribution (still in progress).

2. Master theses written in the UL's Department of Hydrology and Water Resources in the period of 2007/2008, under dr Adam Bartnik's tutelage

3. Dates of field trips

28 field trips were organized:

20.11.2006; 4.12.2006; 18.12.2006; 2.01.2007; 15.01.2007; 29.01.2007; 12.02.2007; 26.02.2007; 12.03.2007; 26.03.2007; 10.04.2007; 23.04.2007; 7.05.2007; 21.05.2007; 4.06.2007; 15.06.2007; 18.06.2007; 22.06.2007; 26.06.2007; 2.07.2007; 15.07.2007; 30.07.2007; 13.08.2007; 27.08.2007; 10.09.2007; 24.09.2007; 8.10.2007; 22.10.2007