



Project no. 505428 (GOCE)

AquaTerra

Integrated Modelling of the river-sediment-soil-groundwater system; advanced tools for the management of catchment areas and river basins in the context of global change

Integrated Project

Thematic Priority: Sustainable development, global change and ecosystems

Deliverable No.: R3.4

Title: Synthesis of data availability for the river Meuse and the aquifer located in the alluvial plain in the Walloon Meuse catchment region

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Organisation name and contact of lead contractor and other contributing partners for this deliverable:

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Dissemination Level		
PU	Public	x
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

Introduction

During the three first months of the AQUATERRA project, the Group of Hydrogeology and Environmental Geology from the University of Liège (HGULg) has performed a general inventory of data sources and availability for the Walloon part of the Meuse basin in Belgium. This deliverable provides the information in the form of a summary table that gives a general description of data types, accessibility (public or confidential, free or charged...) and, if existing, a website with further useful information. In this synthesis, emphasis is put on hydrogeological information. However, general information on surface water is also provided when available.

In the following months, needed data will be collected for the Meuse/Basin experimental sites in the Walloon region. Collected datasets will be introduced into the Hydrogeological Database HYGES developed by HGULg. This database is presently updated for the needs of the AQUATERRA Project.

This synthesis will be further updated when new information and data sources are available.

Remark: the availability and costs refers to any use of the data by HGULg.

List of acronyms:

HGULg	Group of Hydrogeology and Environmental Geology from the University of Liège
IGN	National Geographical Institute of Belgium
IRM	Royal Meteorological Institute of Belgium
MRW	Ministry of the Walloon Region of Belgium
MRW/ DGA	MRW General Division for Agriculture
MRW/ DGRNE	MRW General Division for Natural Resources and Environment
MRW/ MET	MRW Ministry for Equipments and Transports

DATA TYPES	DESCRIPTION	OWNER	AVAILABILITY/ COST	REMARKS
GEOGRAPHICAL INFORMATION				
Topographical maps	Topographical maps at different scales (1:10.000, ...) available, paper format or digital format (GIS...)	IGN	charged	http://www.ngi.be/FR/FR-infoshop.htm
Digital elevation model (DEM)	DTED-WGS, DTED-Lambert and DTM-1:10.000	IGN	charged	http://www.ngi.be/FR/FR1-5-5.shtm
Land Use	Land cover and land use maps and 44 SIG themas available (CORINE)	IGN	charged	http://www.ngi.be/FR/FR1-5-4.shtm
SOIL, SUBSOIL and GEOLOGY				
Geological maps	Geological map of the Walloon region at 1/160.000, paper format, digital format (SIG coverage) available from HGULg Old 1/40.000 geological maps (~1899-1919), paper format and digital SIG format New 1/25.000 survey in progress, paper and digital SIG format	MRW/ DGRNE	Available	http://environnement.wallonie.be/cgi/dgrne/cartosig/li ste_inter.idc#
Soil maps	Soil maps 1/20.000 paper format, digitalisation project in progress	MRW/ DGA	Charged	

DATA TYPES	DESCRIPTION	OWNER	AVAILABILITY/ COST	REMARKS
Soil and subsoil quality maps	Geochemical background and micropollutants in the Walloon region Inventory of soil quality in the Walloon region			http://mrw.wallonie.be/dgrne/data/geochim/ http://mrw.wallonie.be/dgrne/owd/dps/cadastr_des_sols/
Karstic features maps	Atlas of karstic features in the Walloon region	MRW DGRNE/ MRW/ DGA	Available	http://environnement.wallonie.be/cgi/dgrne/plateforme_dgrne/visiteur/frames_affichage_document2.cfm?origine=1750&idFile=1750&thislangue=FR&pere=79
GENERAL HYDROLOGICAL INFORMATION				
Hydrometeorological data	124 meteorological IRM stations in the Walloon Meuse basin (no detailed information at all these stations) +/- 70 automatic pluviometric MET stations	IRM MRW/ MET	Charged Available ?	http://www.kmi.be/english/index.php
River network	Digital (SIG format) river network at 1/10.000	MRW/ DGRNE/	Available	
River sub basins	Digital (SIG format) river basins	MRW/ DGRNE/	Available	

DATA TYPES	DESCRIPTION	OWNER	AVAILABILITY/ COST	REMARKS
EU Surface water bodies	Surface water bodies defined by the Walloon region authorities	MRW/ DGRNE/	Available?	
Monitoring networks (quantity)	Different surface water monitoring network. +/- 130 automatic limnometric MET/SETHY stations; More then 115 limnometric stations from DGRNE	MRW/ MET MRW/ DGRNE/ DE	Available Available	http://mrw.wallonie.be/aqu alim/index.html
Monitoring networks (quality)	Different monitoring networks exist but the information has not been collected yet. More details and contact infos on web site			<a href="http://environnement.wallonie.be/cgi/dgrne/cartosig/li
ste_inter.idc#">http://environnement.wallo nie.be/cgi/dgrne/cartosig/li ste_inter.idc#
HYDROGEOLOGICAL INFORMATION				
Hydrogeological maps	1/25.000 hydrogeological mapping project based in progress, involving the HGULg team	MRW/ DGRNE	Available (HGULg partner of the project)	<a href="http://environnement.wallonie.be/cgi/dgrne/cartosig/li
ste_inter.idc#">http://environnement.wallo nie.be/cgi/dgrne/cartosig/li ste_inter.idc#
Groundwater databases	HGULg DB HYGES Hydrogeological maps DBs Groundwater quality DB CALYPSO MRW/ DGRNE DB Dix-Sous (groundwater production...)	MRW/ DGRNE HGULg ...	Available	

DATA TYPES	DESCRIPTION	OWNER	AVAILABILITY/ COST	REMARKS
EU Groundwater bodies	For the Water directive EU/2000/60, groundwater bodies have been delineated in the Walloon region. The HGULg team was involved as experts	MRW/ DGRNE	Available	
Monitoring networks (Quantity)	No official monitoring network but many information available in databases, groundwater characterization studies, reports, theses...	MRW/ DGRNE SPAQUE ISSEP HGULg Water companies ...	Available	http://environnement.wallonie.be/de/eso/atlas/
Monitoring networks (quality)	Definition of the groundwater quality network for the EU Water directive is on the way. Groundwater quality data available from many sources		Available	
Hydrogeological parameters and measurements	Many information to be collected from different sources such as MRW DGRNE, water companies (SWDE, CILE, CIBE, others), HGULg consulting studies, other consulting studies	various	Available	