

Integrated Drought Management in Central and Eastern Europe ACTIVITY LIST

1. BASIC INFORMATION

<u>Number of Activity:</u>	1.4
<u>Title of the activity:</u>	Development of GIS Based Communication Technology Platform for the Sustainable Management of Transboundary Water Resources in Lithuania, Poland and Kaliningrad Region (Russia)
<u>Duration of the activity:</u>	1 year, 2014
<u>Activity leader:</u>	Bernardas Paukstys, GWP Lithuania National activity Leaders: Tomasz Okruchko, GWP-Poland Boris Chubarenko, Kaliningrad district Aliaksandr Pakhomau, Central Research Institute for Complex Use of Water Resources, Belarus
<u>Chairman of the CWP:</u>	GWP representatives, responsible for organisation of the project and dissemination of results: Bernardas Paukstys, GWP-Lithuania Tomasz Okruchko, GWP-Poland.
<u>Description of the activity:</u>	
<p>The Russian enclave Kaliningrad is located in the Baltic Sea basin. Two major rivers, the Pregola and the Neman, with outlets to the Baltic Sea, pass through the enclave and are heavily affected by industrial and domestic waste water discharge that reaches river water systems almost untreated. Beyond hampering development in Kaliningrad itself the situation also affects progress made by neighboring countries Poland and Lithuania ultimately severely decreasing the opportunities to promote rehabilitation of the Baltic Sea. Global climate change has additional influence on the natural regimes of river basins, lagoons and the Baltic Sea.</p> <p>In 2012 the Stockholm International Water Institute with its partners GWP-Lithuania and GWP-Poland initiated a 3 year project on “Building a Framework for Collective Action in The Management of the Transboundary Waters in Kaliningrad, Russia; Lithuania, and Poland (Baltic Sea Region)”. The overall project objective is to build a partnership to facilitate formal transboundary cooperation and investment for green and smart growth on the shared river basin systems between Kaliningrad Oblast, Russia, Poland, Lithuania and the broader Baltic Sea Community of actors in accordance with EU and Russian regulations and economic strategies. The project also addresses issues of adaptation of the region to the climate change (including drought issues). In 2014 Belarus was invited to become a partner in the project as about 50% of Neman catchment is in Belarus.</p> <p>A two- year programme on Integrated Drought Management in Central and Eastern Europe has started</p>	

in 2013 with participation of GWP-Lithuania and GWP-Poland. Drought risk management is one of the activities of the programme. Effective and adequate collection and processing of the information from the existing large volume of data concerning various natural and human impacted aspects is the primary function for drought risk management.

In order to interconnect all components of both projects development of a cross-cutting web based GIS communication technology platform (GIS-CTP) is needed. A rudimentary analytical system will support all project components underpinned with Water Framework Directive (for Lithuania and Poland) and Kaliningrad Oblast and Belarus datasets where available. The system will be based on spatial analysis through Geographic Information System (GIS) applications.

2. CONTRIBUTING ORGANIZATIONS / EXPERTS

Country	Organization	Contact
Poland	GWP-Poland	Tomasz Okrutzko, T.Okruszko@levis.sggw.pl
Lithuania	GWP-Lithuania	Bernardas Paukstys, bernardas@iti.lt
Russia	Atlantic Branch of P.P.Shirshov Institute of Oceanology, Russian Academy of Sciences	Boris Chubarenko, chuboris@mail.ru
Belarus	Central Research Institute for Complex Use of Water Resources, Belarus	Aliaksandr Pakhomau, aliaksandr.pakhomau@cricuwr.by

** Experts of Atlantic Branch of P.P.Shirshov Institute of Oceanology, Russian Academy of Sciences and Central Research Institute for Complex Use of Water Resources, Belarus will be sub-contracted by the GWP-Lithuani*

3. PLAN for IMPLEMENTATION of the activity

Name of the Output 1	Kick-off workshop for the database and GIS experts from the project countries (Lithuania, Poland, Kaliningrad and Belarus)
Type of the output (analysis, report, guideline, workshop, brochure, etc.):	Workshop
Form (website, CD, printed, database, audio-visual, computer software, etc.):	One printed report on the results of the workshop. Information to the project participants and stakeholders will be distributed electronically
Purpose of the output:	To meet and discuss details of the project: responsibilities, outputs, timetable, budget, etc.
Structure and description (contents, requirements for use, chapters, etc.)	The workshop will be held in Lithuania or Poland.

Name of the Output 2	Concluding workshop for the database and GIS experts from the project countries (Lithuania, Poland, Kaliningrad and Belarus)
Type of the output (analysis, report, guideline, workshop, brochure, etc.):	Workshop
Form (website, CD, printed, database, audio-visual, computer software, etc.):	One printed report on the results of the workshop. Information on the project will be presented at the websites of project partners and distributed electronically to the project participants and stakeholders
Purpose of the output:	To meet and discuss project results and further steps
Structure and description (contents, requirements for use, chapters, etc.)	The workshop will be held in Kaliningrad, Lithuania or Poland.

Name of the Output 3	Procurement of GIS software
Form (website, CD, printed, database, audio-visual, computer software, etc.):	Software
Purpose of the output:	GIS Software is the instrument for further implementation of the project
Structure and description (contents, requirements for use, chapters, etc.)	Latest version of ArcGIS software with possibilities to update will be purchased. GIS consultancy services will be sub-contracted to the project participants.

Name of the Output 4	Development of GIS communication technology platform (GIS-CTP)
Type of the output (analysis, report, guideline, workshop, brochure, etc.):	Database and GIS visualization of the transboundary and climatic clusters
Form (website, CD, printed, database, audio-visual, computer software, etc.):	Website and CD
Purpose of the output:	Web based database will be created to provide equal possibilities for the countries and project partners dealing with transboundary and climatic issues to input data and access to information. A web-based, GIS information system will enable the information to be shared efficiently by project partners and stakeholders: governments, NGOs, the media, and other interested parties in and outside the basin. The creation of online databases will enable a knowledge based community to emerge, building on the collective expertise in the basins.
Structure and description (contents, requirements for use, chapters, etc.)	A rudimentary analytical system will support all project components underpinned with Water Framework Directive (for Lithuania and Poland) and Kaliningrad Oblast and Belarus datasets where available. The system will be based on spatial analysis through Geographic Information System (GIS) applications.

Steps for implementation of the activity	Till when?	Who is responsible?
Kick-off Workshop	July 2014	Bernardas Paukstys, GWP-Lithuania Tomasz Okrzhko, GWP-Poland
Concluding workshop	November 2014	Bernardas Paukstys, GWP-Lithuania Tomasz Okrzhko, GWP-Poland
Procurement of GIS support (software and consultancy services)	September 2014	Bernardas Paukstys, GWP-Lithuania
FINAL OUTPUT: Development of GIS communication technology platform (Database and GIS visualization of the transboundary and climatic clusters)	November 2014	Bernardas Paukstys, GWP-Lithuania Tomasz Okrzhko, GWP-Poland