INSTYTUT METEOROLOGII I GOSPODARKI WODNEJ



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CONTACT DETAILS			
Organisation Name	Institute of Meteorology and Water Management		
Financial capital	~ 20 mln Euro	Human capital	1502
Type of organization	 Research and Development Unit 	Contact Person	Marta GLIŃSKA
Department	Hydrological Forecasting Service		
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Post Code	01 – 673 Warszawa	Country	Poland
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PARTNER PROFILE FORM

EXPERTISE OFFERED		
The Institute's interests:	 Hydrological and meteorological forecasting methods; Hydrological and meteorological warning; Monitoring of maritime management and civil avation; Regular hydrological and meteorological measurements and observations; Acquisition, archiving, processing and making available hydrological and meteorological measurement and observational materials; Development and exploitation of hydrological mathematical models; Monitoring the quality of flowing waters; Monitoring of the radioactive air contamination; Collecting and archiving information of processes occurring in the atmosphere and hydrosphere; Analysis and assessment of interactions with other components of natural environment; Warning the society and national economy. 	
Keywords specifying the	Hydrology, hydrography, operational hygrology,	
Expertise:	limnology, lakes, shore zones, litoral zones, river	
	channel, morphology, physical – geographical	
	parameters, rating curve, water balance, hydrographical	
	division, frequency analysis, streamflow characteristics,	

 Data collecting and processing; Quantitative monitoring of water resources; Hydrological forecasting; Simulation techniques to study possible hydrological effects of environmental and management decision; Flood monitoring; Drought monitoring. System of Hydrology Centre Development of SH and adaptation to users requirements; Development of SH and adaptation to requirements of end-users of hydrological and meteorological data and products; Training and integration of SH users; Monitoring of SH resources; Projects aimed to storage, processing and distributing data. Centre of Hydrology Digital Map of Hydrographic Division of Poland (MPHP); Thematic GIS maps created on the basis of MPHP; GIS technology in hydrology; Hydrographic parameters of rivers and basins; Rivers' lenght and network schemes; Discharge modeling from small ungauged catchments; Regional and local floods; Heavy rains and flash floods; Water circulation balance and determination of basin water resources; 		
analysis, drought analysis, low flow, extreme flows, disaster, hazard, hydrological forecasting, monitoring system, warning system, hydrological modelling, multivariate statistical analysis, static and dynamic bayesian models, stochastic models, multivariate normal regression, mutrix normal regression, multivariate discount weighted regressin, applied hydrology, GIS, heavy rains, hydrological design characteristics, data collecting, data distribution, data processing system, data storage system (database), hydrological data, meteorological data. Department research interests: Hydrological Forecasting Service - Data collecting and processing; - Quantitative monitoring of water resources; - Hydrological effects of environmental and management decision; - Flood monitoring; - Drought monitoring. System of Hydrology Centre - Development of SH and adaptation to users requirements; - Development of SH and adaptation to requirements of end-users of hydrological and meteorological data and products; - Training and integration of SH users; - Monitoring of SH resources; - Projects aimed to storage, processing and distributing data. Centre of Hydrology - Digital Map of Hydrology; - Hydrographic Division of Poland (MPHP); - Thematic GIS maps created on the basis of MPHP; - GIS technology in hydrology; - Hydrographic parameters of rivers and basins; - Rivers' lenght and network schemes; - Discharge modeling from small ungaged catchments; - Regional and local floods; - Heavy rains and flash floods;		
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basin water resources;		 Heavy rains and flash floods;
		Water circulation balance and determination of
Water resources assessment on national regional		basin water resources;
		Water resources assessment on national, regional
and local scale;		
 Lakes dynamic water resources assessment; 		 Lakes dynamic water resources assessment;
 Calculation of water exchange in river-lake systems; 		-
 Study of land use impact on lakes water resources 		

	status;
	• Systems theory and mathematical modeling in
	hydrology;
	Hydrologic modeling for climate impact
	assessments;
	Statistical methods for flood and low flow
	frequency analysis;
	• Methods for risk assessment of hydrological events;
	• Estimation of hydrological forecasting uncertainty;
	 Statistical models of floods and low flows;
	 Assessment and verification of flows in river
	channel applying hydrodynamic models and new
	methods for rating curve determination;
	 Hydrological characteristics for planning and
	designing;
	• Extreme hydrological events and their statistical
	models;
	 Statistical methods, robust statistics;
	 Multimodel inference;
	• Water management on reservoirs and its impact on
	hydrological regime.
International projects from last	Elaboration of joint Polish-German computer
5 years:	map of Nysa Łużycka and transboudary Odra
(Title of project, source of funds,	River catchment; (Erarbeitung einer gemainsamen
duration, partner or leader)	Computerkarte des Einzugsgebietes der Lausitzer
autation, partiter of feader)	Neise und der Grenzoder; MŚ; from 1997, partner;
	 Cooperation within ETN-R (European
	Terrestrial Network River Discharge)and EFAS
	(Developing of the European Flood Alert System)
	projects. Delivering of near real time discharge and
	water level data occurred in an operation mode for
	German Federal Institute of Hydrology (data
	processing and information provision service).
	Duration: 2008-2010, financed by EC funds;
	 ESPA project (Emergency Stress Psychological
	Assistance) Psychological support in the stress
	situation caused by catastrophe – IMGW's role:
	researches and support in the field of floods.
	Duration: $2006 - 2007$, financed by grant of the EC
	Duration: 2000 – 2007, infianced by grant of the EC DG Environment;
	,
	EFRP project (Emergency Flood Recovery Project) Designing and implementation with put in
	Project). Designing and implementation with put in
	motion System of Hydrology. Duration: 2000 –
	2005, financed by World Bank loan;
	Report on the selected Flash Floods in Poland, Similar Studies of the University of Floods form Interested
	[in:] Study of the Historical Floods from Integrated
	Flood Management Viewpoint ; CEE – WMO,
	2004; partner.

Added value that Department	Hydrological Forecasting Service
can provide:	• Experience in mathematical modeling of
(know-how/ expertise and	hydrological process (rainfall – runoff models and
equipment)	hydrodynamic models);
	 Monitoring and warning systems;
	 Short – term hydrological forecast.
	System of Hydrology Centre
	The System of Hydrology (SH) is IT software used for
	collecting, processing and distribution of data as well as
	hydrology and meteorological products in the IMGW.
	SH is an open modular system, that is easy to extended
	and modified according to user needs.
	 Collecting and validation of hydrological and
	meteorological data;
	 Operational data processing system (forecasts,
	reports, visualizations, GIS, notes, warnings,
	analyses);
	Historical data processing system (annual
	compilations, calculations of the characteristic
	hydrological values);
	Hydrological and meteorological storage data
	system (database);
	 Data and products distribution system.
	Centre of Hydrology
	 Hydrological processes modeling;
	 Water resources study;
	 Low flows impact on rivers and lakes water
	resources analysis;
	 Floods and their impact analysis;
	 Expertise in GIS and statistical methods; Sustains the arm and methomstical medaling in
	 Systems theory and mathematical modeling in hydrology;
	hydrology;Hydrological modeling to assess climate impact on
	 Invarious resources and water courses regime;
	 Statistic methods in hydrology;
	 Modeling of natural phenomena using dynamic
	Bayesian models;
	 Bayesian methods for estimation of hydrological
	forecasting uncertainty;
	 Mathematical models for prediction of flood and
	low flow;
	 Contribution to Hydrological Atlas of Poland;
	Elaboration of Hydrographical Atlas of Poland in
	1:200000 scale;
	Elaboration of hydrographic division in 1:50000
	scale and its computer map (MPHP)(ArcGIS);
	Work in the Commission for Establishing Names of
	Localities and Physiographic Objects at the Ministry
	of Interior and Administration;
	River's runoff models development;

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	 GIS thematic maps elaboration on the basis of MPHP;
	 Monography of floods that affected Poland since 1945;
	 Assessment of water resources and periodical
	reports on quantity and quality of surface water
	resources in Poland;
	 Collaboration on Transboundary Rivers;
	 Long-term studies on river valleys and beds
	morphology using aviation remote sensing;
	ineasurement equipment,
	 Hydrological characteristics for planning and designing
Main managemelterer and some ortiger	designing.
Main researchers and expertise:	Hydrological Forecasting Service
(name, surname, academic degree,	Małgorzata MIERKIEWICZ, PhD P.Eng. –
speciality)	hydrological modelling, hydrological forecasting;
	 Michał CERAN, MSc Eng. – operational hydrology, hydrological formations
	hydrological forecasting;
	Marcin DOMINIKOWSKI, MSc – operational
	hydrology, hydrological forecasting, science;
	 Andrzej KADŁUBOWSKi, MSc – hydrological
	modelling, hydrological forecasting, science;
	System of Hydrology Centre
	 Paweł CABAŃSKI, MSc Eng. – GIS, hydrology,
	modeling;
	 Dorota CERAN, MSc Eng. – historical hydrology; Manuar DADDOWGW, MSc Eng. – hadrada and MT
	 Marcin DABROWSKI, MSc Eng. – hydrology, IT
	systems and data bases in hydrology;
	• Grzegorz SŁOTA, MSc Eng. – hydrology, IT systems
	for hydrology.
	Centre of Hydrology
	 Jerzy BRZEZIŃSKI, PhD Eng. – hydrology
	 Maurycy CIUPAK, PhD Eng. – environmental
	science and technology;
	Janusz OSTROWSKI, PhD Eng.– technical sciences
	 Bogdan OZGA – ZIELIŃSKI, PhD P.Eng. – senior
	hydrologist
	• Ewa BOGDANOWICZ, PhD – mathematics, statistics,
	hydrology
	 Halina CZARNECKA, PhD – natural sciences,
	hydrography - Barbara Nowickt, PhD, bydrology, physical
	 Barbara NOWICKA, PhD – hydrology, physical
	limnology;
	 Jerzy SZKUTNICKI, PhD – hydrology; Morte CLUYSKA, MSe Eng., environmental science
	• Marta GLIŃSKA, MSc Eng. – environmental science
	 Agnieszka PIETRZYKOWSKA, MSc Eng. –
	meteorology;
	 Monika SAWICKA, MSc Eng. – meteorology; Appendix STRZEL CZAK, MSc Eng. – agromational agree
	 Anna STRZELCZAK, MSc Eng. – agrometeorology;

	 Łukasz CHUDY, MSc – hydrology, water management Barbara GŁOWACKA, MSc – mathematics, GIS Witold JAWORSKI, MSc – geography, GIS, models in hydrology, hydromorphology Jolanta KRUPA-MARCHLEWSKA, MSc – hydrology, GIS Michał MARCINKOWSKI, MSc – geography, GIS, models in hydrology, geostatistics Sławomir WERESKI, MSc – hydrology, meteorology; Monika ZANIEWSKA, MSc – hydrogeology
National projects of the Department of Hydrology: (Title of project, source of funds, duration,)	 "KLIMAT" "Project Impact of climate change on environment, economy and society" (task 4.7 "FF type flash floods induced by heavy torrential rains", POIG 2008-2012; "Monitoring, forecasting and simulation of natural hazards in Warsaw capital city" chaired by H. Lorenc and J. Ostrowski under the ordered research project no. PBZ- MIN-011/013/2004. "Models of municipal agglomeration risks, including emergency management on the example of Warsaw capital city", 2006-2009; "Hydrological Manual for Engineers", internal project, 2007-2009; Water resources assessment in water bodies, internal project, 2007-2008; Multimodel approach in discrimination, regression and estimation problems, interlal project, 2007-2008; Project and implementation of the new database's structures responsible for storage, selecting and updating data in SH, October. 2008; Hydrological management and forecasting system (System of Hydrology and Modeling Project) – in operational use in IMGW from 2006; Flood characteristics in Poland in 2006 and flood risk area assessment. Analyse made for PZU S.A.; 24.11.2008-31.12. 2008; "Atlas of hydrographic division of Poland" Project ordered by the Minister of Environment, 2005; "Computer system to assess water resources in ungauged agricultural catchments" Research Project no. P06S 035 24 [Agreement no. 0820/P06/2003/24 dated 28 May 2003] (2003- 2007); Maximum rainfall in Poland - design approach, 1997-2001;

 Integrated Hydrological Monitoring and Forecasting System for Vistula River Basin – in
operational use in IMGW from 1997.

PROJECTS' AND ACTIVITIES' PROPOSALS

Hydrological Forecasting Service

- Efficiency of hydrological forecasts.
- Drought monitoring system.

System of Hydrology Centre

- Projects related to exchanging, delivering and data storage.
- Project and testing new methodological solution in hydrology and water management using SH tools and functions.
- Creating new IT solutions for hydrology and water management, based on SH tools and SH databases.
- Creating tools supporting decision processes in crisis and emergency management connected with floods and other natural disaster.
- Projects dedicated to assure quality of hydrological and meteorological data.
- Projects aimed to presentation, visualization and usage of GIS for hydrological and meteorological data.

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- Extented determination of historic floods, including an inventory of flood marks to be used in flood prevention plans.
- Contribution to works on broadening thematic input to the digital map "Hydrotechnical structures of I, II and III classes".
- Elaboration of integrated model for river basin.
- Regional analysis of statistical models for seasonal flood frequency.
- Evaluation of methods for estimation streamflow characteristics in ungaged basins.
- Support System for Risk Assessment of extreme hydrological events appearance (SSRA).
- Synthesis Two-level Bayesian Model for points and intervals hydrological forecasts (STBM).
- Mathematical Models for Prediction and Assessment of floods and low flows. (WMMPA).
- Hydrological atlas of Europe.
- Transboundary water collaboration in Europe.
- Maximum rainfall statistical modeling.
- Hydrological characteristics and their dynamics and variability in space.