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Black Sea Regional Workshop on Catchment Observations, Modelling and Management 30-31 October 2014, Batumi, Georgia

The Regional Workshop devoted to the Black Sea Catchment will have a twofold objective. Specifically, the two day [ILMM-BSE](#) and [IASON](#) Events in Georgia will include the Training Workshop on October 30 (Day 1), dealing with capacity building in hydrological modelling, data dissemination and discovery tools for the Black Sea Catchment, as well as the special policy session next day devoted to International Black Sea Day (BSD) of October 31 (Day 2), with participation and presentations of local, national and international stakeholders involved in various European projects (such as IASON and ILMM-BSE) and other projects in river basin and catchment management. The workshops are targeting policy makers, researchers, and stakeholders from the region. The second half of the Black Sea Day of 31 October 2014 will specifically be devoted to public presentations by ILMM-BSE Partners.

The Black Sea Workshops and Events in Georgia of 30-31 October 2014 are collocated with EC FP7 IASON Meeting in Batumi, October 29, 2014 and Cross Border Cooperation ILMM-BSE Project Meeting in Georgia, November 01, 2014, and are organized in synergy by these two European regional research and coordination projects.

The workshop is promoted as BSD event in Georgia by Black Sea Commission Permanent Secretariat and the Ministry of Environment & Natural Resources Protection of Georgia.



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PROGRAM

DAY 1 – 30 October 2014 – TRAINING WORKSHOP

Theme: Capacity Building in Earth Observations (EO) and Environmental Applications

Duration: all day

Skills required: basic GIS knowledge

Participants: maximum 50 participants (including partners), each with his/her own laptop (*)

Description: training workshop is composed of two interrelated parts.

First part of the workshop with the course entitled "Bringing GEOSS services into practice" aims at explaining to participants how to install, configure and deploy a set of open source software to publish and share data and metadata through the Global Earth Observation System of Systems (GEOSS). GEOSS has been created as an international voluntary effort that connects geospatial and Earth Observation and information infrastructures, acting as a gateway between producers of environmental data and end users. The aim of GEOSS is to enhance the relevance of Earth observations and to offer public access to comprehensive, near-real time data, information and analyses of the environment.

Second part of training after hands-on introductory session into hydrological modelling, will teach participants how to access high performance computation (HPC) infrastructures available at Black Sea Catchment-Observation System (BSC-OS by enviroGRIDS project) and providing hydrological model calibration and execution capacity, other web applications.

Pre-requisites (*): participants should bring their own laptops with free Virtual Box software (www.virtualbox.org), downloaded and installed prior to the workshop. This will allow use of virtual machine preloaded with all needed GIS software, data, tutorials and presentations. Virtual machine files will be distributed during workshop. Operating system & specifications: Windows or MacOS or Linux; memory (RAM) minimum 4 GB; disk space minimum 30 GB.



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Part 1, concepts on GEOSS & SDI delivered by University of Geneva, Switzerland (Yaniss Guigoz, Pierre Lacroix) and CNR-IIA, Italy (Lorenzo Bigagli).

09:00-09:30	Registration	
09:30-11:00	Part 1: "Bringing GEOSS services into practice"	
	Introduction: Concepts on Spatial Data Infrastructures (SDI)	
	How to store geospatial data? (PostGIS and flat rasters)	
	How to publish geospatial data? (GeoServer; Web services)	
11:00-11:15	Coffee Break	
11:15-11:30	EO and disaster management	O. Altan, 1stVP ISPRS , EKINOKS, TR
11:30-13:00	Part 1: "Bringing GEOSS services into practice" (continued)	
	How to document and search geospatial data? (GeoNetwork, metadata)	
	How to process geospatial data? (PyWPS, WPS)	
	How to view geospatial data? (WMS, OpenLayers, QGIS, Google Earth)	
13:00-14:00	Lunch	
14:00-15:30	Part 1: "Bringing GEOSS services into practice" (continued)	
	How to download geospatial data? WFS, WCS, QGIS	
	How to analyze geospatial data? (consuming local/remote WPS with QGIS)	
	How to share geospatial data? (registration; Discovery and Access Broker)	
15:30-16:00	Coffee Break	
16:00-18:00	Part 2: Hydrological modelling & Black Sea Catchment Observation System	
	Introduction in hydrological modelling & hands-on demonstration (arcSWAT)	
	Model application, calibration, execution over HPC infrastructure (gSWAT)	

Part 2, BSC-OS modelling tools delivered by Technical University of Cluj-Napoca, Romania (Dorian Gorgan, Victor Bacu, Teodor Stefanut) and GeoGraphic, Georgia (Mamuka Gvilava)

19:30-19:45	Black Sea research challenges	A. Kideys, IASON Board, IMS , TR
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DAY 2 – 31 October 2014 – INTERNATIONAL BLACK SEA DAY

09:30-11:00		Black Sea Day - Plenary Session	
		Opening addresses by the Rector of the Batumi State University; on behalf of the Black Sea Commission Permanent Secretariat Executive Director; and the National Environmental Agency of the Ministry of Environment and Natural Resources Protection of Georgia	
		EO thematic pillars of IASON project	P. Patias, IASON Coordinator, GR
		CBC ILMM-BSE project & research	S. Enilova, BG & F. Konukcu, TR
		enviroGRIDS and BSC-OS	D. Gorgan, IASON, UTCN, RO
		EO toolkit & business opportunities	M. Noort, IASON & EOPower , NL
		Marine Climate Remote Sensing	N. Meskhidze, NCSU , US
11:00-11:30		Black Sea Day - Press Conference	
11:00-11:30		Coffee break	
11:30-14:00		Black Sea Day - Plenary Session (Continued)	
		CBC Black Sea Repair project	B. Partsvania, ABC Group , GE
		CBC Hot BLACK SEA project	M. Devidze, Partner FCE, GE
		MIS ETC 171 (Spatial) project	V. Vassilev, RESAC , BG
		USAID INRMW project	M. Shotadze, GLOWS, GE
		Flood prevention project in Georgia	I. Tsiklauri, AF/UNDP, GE
		EEA ENPI-SEIS in Georgia	T. Bakuradze, on behalf of NFP, GE
		Uptaking PEGASO project results	M. Gvilava, IASON, GeoGraphic, GE
		Workshop summary and closure	P. Patias, IASON Coordinator, GR
14:00-15:00		Lunch and adjourn (IASON)	



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DAY 2 – 31 October 2014 – INTERNATIONAL BLACK SEA DAY

15:00-16:45		Black Sea Day - Plenary Session – ILMM-BSE 3 rd Workshop	
	Addresses by Civitas Georgica (G. Meskhidze, GE) and BRTA (S. Enilova, BG)		
	Presentation of BRTA (ILMM-BSE Applicant)		S. Enilova, BRTA, BG
	Presentation of Hayrabolu Municipality (Beneficiary)		Representative, HBM, TR
	Research case: landuse model of Meriç-Ergene Basin		F. Konukcu, NKU, TR
	Research case: Estuaries/Limans of Odessa Region		I. Karpenko, UkrMEPA
	Research case: Rapotamo and Veleka River Basins		V. Nenov, BSU, BG
	Research case: Modeling River Catchments of Guria		M. Gvilava, Civitas, GE
16:45-17:00		Coffee break	
17:00-18:00		Black Sea Day - Plenary Session – ILMM-BSE 3 rd Workshop (Continued)	
	Black Sea Awareness Program		M. Goknar, TurMEPA, TR
	ILMM-BSE WebGIS Demo Session		R. Akgöz, InfoMab, TR
	Workshop summary and closure		F. Konukcu, TR and S. Enilova, BG
DAY 3 – 01 November 2014 – ILMM-BSE Project Meeting			
09:00-14:00		ILMM-BSE Project Meeting	
	Progress in the ILMM-BSE project – reporting and management – results and recommendations from the Monitoring visit by the JMA		
	Progress in the ILMM-BSE project – financial management		
	Progress in the ILMM-BSE project – research activities		
	Progress in the ILMM-BSE project – future activities, addendum		
14:00-15:00		Lunch and adjourn (ILMM-BSE)	