enviroGRIDS - FP7 European project

Building Capacity for a Black Sea Catchment

Observation and Assessment supporting Sustainable Development



Virtual Training Center

Title Deliverable 7.9 Virtual Training Center

Creator Andreja Jonoski (IHE), Nicolas Ray (UNIGE)

Creation date 30.03.2012 Date of last revision 22.05.2012

Subject Note about the online Virtual Training Center accessible through the enviroGRIDS.net

website

StatusFinalizedTypeWebpage

Contributor(s) Andreja Jonoski, Nicolas Ray

Rights Public

Identifier EnviroGRIDS_D7.9

Language English

The Virtual Training Center (VTC) of the enviroGRIDS research project is set-up for providing various learning resources to the project partners, stakeholders from the Black Sea Catchment involved in environmental management at different levels and anyone who is interested in the research topics covered by enviroGRIDS. Learning material in the VTC is provided from existing resources available within the enviroGRIDS consortium partners, resources generated through the research activities of the project and various contributions from workshops, symposia and conferences organized with collaboration or participation of enviroGRIDS partners in which contributions are provided from external partners, but on topics closely related to enviroGRIDS.

Since enviroGRIDS is an on-going project, learning resources are added continuously. The complete set of learning resources and their final structuring is expected at the end of the project.

The topics covered by the learning resources include:

- 1. Introductory topics (River basin management concepts; Black Sea basin characteristics; Research approaches taken in enviroGRIDS)
- 2. Spatial data infrastructures (Standards and interoperability of spatial data using GEO and INSPIRE frameworks; Sensors data, remote sensing data and their integration; Grid-enabled spatial infrastructure)
- 3. Scenarios of long term changes (Population growth models; Climate change models; Land-use change models; Integration of models for composite scenarios development)
- 4. Catchment modelling using the Soil and Water Assessment Tool-SWAT (Introductory lectures on SWAT; SWAT modelling concepts and data requirements; SWAT modelling interface ArcSWAT; Calibration, validation, sensitivity and uncertainty in SWAT modelling; Usage of the computational GRID for SWAT modelling tasks; SWAT model applications in the Black Sea catchment; Related modelling topics)
- 5. Long term impacts on selected societal benefit areas (Biodiversity and ecosystems, including alien species and wetlands; Agricultural impacts usage of the GIS-based EPIC model

enviroGRIDS - FP7 European project

Building Capacity for a Black Sea Catchment

Observation and Assessment supporting Sustainable Development



- [GEPIC]; Energy; Health; Flood risk assessment; Disaster early warning systems for aquatic alien species and floods; Overall assessment of vulnerability and sustainability)
- 6. Portal of the Black Sea catchment Observation System BSC-OS (Introduction to portal tools and applications; Portal tools for grid-based data processing, management and modelling; Specific applications for decision makers, diverse stakeholders and citizens; Demonstrator case studies deployed on BSC-OS)

The Virtual Training Center is available on the enviroGRIDS website at the following address: http://www.envirogrids.net/index.php?option=com content&view=article&id=84&Itemid=89

or alternatively:

http://bit.ly/enviroGRIDS_VLC