

Greek Biotope/Wetland Centre

organizes a training course within the framework of the project

"Hellenic – Bulgarian cooperation for the protection and management of Natural Resources – Application in Struma River Basin"

regarding a) Hydraulic – hydrologic simulation systems and
b) Geographical Information Systems and satellite image analysis

Duration: 30/10/2006 – 3/11/2006

Instructors

Charalampos Doulgeris, Agr. Engineering, PhD in Water Resources

Antonis Apostolakis, Agr. Engineering, MSc in GIS and Remote Sensing

Lena Hatziordanou, Geologist, MSc in Environmental Geotechnology

PROGRAM OF THE TRAINING COURSE

Monday – 30/10/2006

Introduction to hydrology models and Geo-databases – Applications (Ch. Doulgeris - A. Apostolakis)	
Topics	Time
1. Introduction to hydrology models – Applications	14.00 - 15.00
2. Introduction to Geo-databases – Applications	15.00 - 16.00

Tuesday – 31/10/2006

Geographical Information Systems (L. Hatziordanou)	
Topics	Time
1. Principles of GIS	09.00 - 09.30
2. Introduction to ArcGIS	09.30 - 11.00
<i>Coffee break</i>	11.00 - 11.15
3. Creation of geographic data - Databases	11.15 - 12.30
4. GIS analysis	12.30 - 13.30
<i>Lunch break</i>	13.30 - 14.00
5. Thematic Mapping - Map composition	14.00 - 16.00



Wednesday – 1/11/2006

Hydrology – Rainfall-Runoff modelling in Strymon/Struma Basin

(Ch. Doulgeris)

Topics	Time
1. Introduction to hydrology – Numerical simulation (modelling)	09.00 - 11.00
<i>Coffee break</i>	11.00 - 11.15
2. Use of MIKE 11 GUI – Preparation of meteorological data	11.15 - 13.30
<i>Lunch break</i>	13.30 - 14.00
3. Set up of a Rainfall – Runoff model in Strymon/Struma Basin	14.00 - 16.00

Thursday – 2/11/2006

Hydrology – Hydrodynamic modelling in Strymon/Struma River

(Ch. Doulgeris)

Topics	Time
1. Data preparation and Initial set up of a hydrodynamic model	09.00 - 11.00
<i>Coffee break</i>	11.00 - 11.15
2. Final setup of the hydrodynamic model – Connection with a Rainfall – Runoff model	11.15 - 13.30
<i>Lunch break</i>	13.30 - 14.00
3. Calibration of the model – Discussion	14.00 - 16.00

Friday – 3/11/2006

Geographical Information Systems – Remote sensing (A. Apostolakis)

Topics	Time
1. Creating a hydrologically correct DEM from topographic data (Hydro Tools)	09.00 - 11.00
<i>Coffee break</i>	11.00 - 11.15
2. Introduction to remote sensing	11.15 - 13.30
<i>Lunch break</i>	13.30 - 14.00
3. Basic classification techniques	14.00 - 16.00

