THE GOULANDRIS NATURAL HISTORY MUSEUM
GREEK BIOTOPE/WETLAND CENTRE

T R A I N I N G

in Wetland Inventory using Information Systems

Training in "Wetland inventory using Information Systems" consists of a training package and three training seminars. Their aim is to build capacities of scientists involved in nature conservation in order to advance their knowledge on wetland inventory using modern technology tools and managing digital data with databases and Geographic Information Systems (GIS). The training is addressed at three groups of trainees, i.e. beginners, advanced and future trainers. The training seminars are:

i) The "*Train the trainers*" seminar, which is addressed at scientists with an advanced level of knowledge on wetland inventories and the use of information systems.

ii) The "*Beginners*" seminar, which is addressed at scientists with basic level knowledge on wetland inventory using information systems.

iii) The "*Advanced*" seminar, which is addressed at the group of scientists who have successfully completed the "*Beginners*" seminar or possess equivalent knowledge on wetland inventory using information systems.

Participants will apply the MedWet inventory method in selected sites using field data and remote sensing data.

Seminar Calendar:

Seminar	Duration	Date	Place
Train the trainers	5 days	February 2005	Thessaloniki, Greece
Beginners'	6 days	June 2005	Tirana, Albania
Advanced	5 days	November 2005	Tirana, Albania

E C A T
Environmental Center for Administration & Technology
T I R A N A

MedWetCoast

Advanced Seminar in Wetland Inventory using Information Systems

Tirana, Albania, 31 October – 4 November 2005

Organiser

The Advanced training seminar in "Wetland Inventory using Information Systems" is organised by the Greek Biotope-Wetland Centre (EKBY) and ECAT Tirana, with the support of MedWet Coast Albania, in the frame of the Life Third-Countries ALWET Project.

Location

The seminar will be hosted at the premises of the INIMA computer room, in Tirana, Albania.

Duration
40 hours

Aims

Participants will:

- build capacities on planning, implementation and use of wetland inventories,

- acquire advanced knowledge on wetland inventorying and data management with the use of databases, Geographic Information Systems and Remote Sensing tools, and

- become acquainted with the application of the training package "Wetland Inventory using Information Systems".

Who can participate

- Selected scientists from Albanian bodies working for wetland conservation and management (fifteen attendants max), that either have completed the "Beginners seminar", or have equivalent knowledge on the subject matter of the training.

Requirements for attendance

Participants should meet the following requirements:

- University education
- Experience in wetland inventorying
- Good knowledge on databases and GIS
- Good computer knowledge
- Competence in the English language

Certificate

Participants will be granted a Certificate of Attendance.

Content

Module I: Wetland Inventory
- Remote Sensing applications

Module II: Databases
- Database definitions
- Database design
- Creating tables
- Creating queries
- Creating forms and reports
- Advanced features of the MWD v.3

Module III: Geographic Information Systems (GIS)
- Introduction to ArcGIS
- Data management in GIS
- Thematic mapping
- Tabular data
- GIS analysis
- Presentation of results

Wrap-up segment
Case study

For further information please contact:

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More details on the ALWET project can be found at:
http://www.ekby.gr/ekby/en/alwet_web/alwet_site/alwet_site_HOME.html

ADVANCED SEMINAR IN WETLAND INVENTORY USING INFORMATION SYSTEMS
31st October – 4th November 2005, Tirana
SCHEDULE

TIME	Monday 31 October - 1st day
9:00-9:15	OPENING – Description of the training procedure
9:15-9:30	**Database definitions**
9:30-10:30	**Database design**
10:30-10:45	Coffee break
10:45-12:00	**Creating tables**
12:00-13:00	**Creating queries**
13:00-13:30	Lunch break
13:30-15:00	**Creating forms and reports**
15:00-15:15	Coffee break
15:15-16:00	**Advanced features of the MedWet Database MDW v3**
16:00-17:00	**CASE STUDY**
TIME	**Tuesday 1 November - 2nd day**
9:00-9:45	**Remote Sensing applications:** Basic theory and principles of remote sensing
9:45-10:30	**Remote Sensing applications:** Preparation of remote sensing data
10:30-10:45	Coffee break
10:45-12:00	**Remote Sensing applications:** Preparation of remote sensing data
12:00-13:00	**Remote Sensing applications:** Image classification (Unsupervised classification)
13:00-13:30	Lunch break
13:30-15:00	**Remote Sensing applications:** Image classification (Supervised classification)
15:00-15:15	Coffee break
15:15-16:00	**Remote Sensing applications:** Image classification (Knowledge based classification)
16:00-17:00	**CASE STUDY**

TIME	Thursday 2 November - 3rd day
9:00-9:45	**Remote Sensing applications:** Image classification (Change detection)
9:45-10:30	**Remote Sensing applications:** Image classification (Accuracy assessment of image classification)
10:30-10:45	Coffee break
10:45-11:30	**Remote Sensing applications:** Data extraction and customisation into an information system
11:30-12:15	**Introduction to ArcGIS**
12:15-13:00	**Data management in GIS**
13:00-13:30	Lunch break
13:30-14:15	**Data management in GIS**
14:15-15:00	**Thematic mapping**
15:00-15:15	Coffee break
15:15-16:00	**Thematic mapping**
16:00-17:00	**CASE STUDY**
TIME	**Wednesday 3 November - 4th day**
9:00-10:30	Tabular data
10:30-10:45	Coffee break
10:45-11:45	**GIS Analysis:** Spatial operations (Spatial queries)
11:45-13:00	**GIS Analysis:** Spatial operations (Proximity and geoprocessing)
13:00-13:30	Lunch break
13:30-15:00	**GIS Analysis:** Spatial statistics (Distance maps, Suitability maps, Surface analysis)
15:00-15:15	Coffee break
15:15-16:00	**Presentation of results-Map composition**
16:00-17:00	**CASE STUDY**

TIME	Friday 4 November - 5th day
9:00-9:30	**Presentation of TRAINING PACKAGE** (structure, topics, etc)
9:30-10:15	**Description of follow up activities (Pilot application)**
10:15-10:30	Coffee break
10:30-13:00	**CASE STUDY OVERVIEW**
13:00-13:30	Lunch break
13:30-14:30	**Evaluation of knowledge**
14:30-15:00	**Evaluation of the seminar**
15:00-15:15	Coffee break
15:15-16:45	**Working session: Application Working Group & follow up activities**
16:45-17:00	CLOSURE - discussion