



TCO CEE Terrestrial Carbon Warehouse Workshop

Hotel Krystal, Prague, the Czech Republic, 16-21 November 2002

7 November 2002

PROVISIONAL AGENDA

Workshop objectives

1. Gather existing data sets needed to support estimation and understanding of terrestrial carbon stocks and fluxes at the regional level.
2. Begin establishing standardized methods and data formats to facilitate a simplified integration of large-scale data sets.
3. Identify scientific needs of CEE region, gaps in the required data, options for filling these, and appropriate follow-up activities.
4. Provide training in the use of the Dynamic Atlas data management software.

Main sessions will be held in room No.181

Training sessions in Dynamic Atlas and certain working sessions will be held in the computer room, No.184

Sunday, 17 November 2002

Day 1

- 9.00-12.30**
1. Poster mounting.
 2. Preliminary analysis of datasets available and content of the different practical sessions.
 3. Data and metadata sheets are improved expanded and inserted into the warehouse.

12.30-14.00 Lunch

Introductory session

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|--------------------|--|---------------------|
| 14.00-14.10 | Welcome, introduction and logistics | Sessa |
| 14.10-14.35 | Introduction to TCO and the workshop objectives | Cihlar |
| 14.35-15.00 | European projects related to carbon cycle observations | Seufert |
| 15.00-15.25 | Information publishing and access – the information imperative | Williams |
| 15.25-15.50 | Environment and forestry change projects in Carpathian region and in the Dnipro river basin, working example of the use of Dynamic Atlas | Kolodyazhnyy |
| 16.00 | Reception and concert (meet in the main entrance of Hotel Krystal by 4 pm) | COMENIUS |



Monday, 18 November 2002

Day 2

- 9.00-9.10** Official opening by representative of the Czech Ministry of Agriculture
- 9.10-9.20** Overview of FAO activities and GTOS projects in the CEE area **Reichert**
- 9.20-9.50** Issues in gathering large-scale terrestrial data sets
An overview based on TCO planning and related activities **Cihlar**
- 9.50-10.20** The IPCC Good practice guidance and reporting rules within UNFCCC **Seufert**
- 10.20-10.35** **Break**
- 10.35-11.00** Methods, data acquisition and protocols **Schmullius**
Strengths/weaknesses of methods used (especially *in situ*) to collect carbon data/observations. Standardization of approaches: is there one set of recommended protocols for acquisition and preparation of data products?
- 11.00-11.25** Flux tower measurements and data products **Barcza**
- 11.25-11.50** Validation of remote sensing data using field measurements **Reichstein**
- 11.50-12.15** Problems in combining data sets to a common time, space, and parameter **Vanderbilt**
How to integrate available data
Extrapolation of the CEE data
- 12.15-12.40** Uncertainties in data sets, a systems view and national experiences **Zimmermann**
- 12.40-14.00** **Lunch**
- 14.00-14.35** Use of diverse data sets for regional carbon source/sink case studies in Europe **Seufert**
- 14.35-15.10** National and regional case studies in using multiple techniques **Shvidenko**
Focus on insights/experience which can transferred to the CEE region
- 15.10-15.25** **Break**
- 15.25-18.30** Dynamic Atlas: Training 1 **Williams**
Overview of Dynamic Maps
Running Dynamic Maps for the first time
The Dynamic Maps interface / windows
Choosing and manipulating map layers
The active layer
Map layer rendering
Drawing and annotating
Creating views
Working with related data
Working with related information
Using the map composer
- 18.30-19.30** **Dinner**



Tuesday, 19 November 2002

Day 3

- 8.30-8.55** Assembly of carbon – related data sets for CEE: approach, results and issues **Adolt**
- 8.55-10.15** Working session 1: Standardization of methods and data set harmonization **Shvidenko**
Introduction, followed by participants divided into working groups
Facilitators: **Zimmermann / Adolt / Reichstein**
- 10.15-10.30** **Break**
- 10.30-12.30** Working session 1 cont'd
- 12.30-14.00** **Lunch**
- 14.00-14.30** Review of Working session 1
- 14.30-15.00** Quality assurance and quality control (presentation and discussion) **Vanderbilt**
- 15.00-15.15** **Break**
- 15.15-17.30** Dynamic Atlas: Training 2 **Williams**

Installing and running Dynamic Knowledgebase for the first time
The system architecture and warehouse components
First steps in creating and managing warehouses
Dynamic Knowledgebase functionality
Registering map layers
Registering system data sets
Building topics
Using spatial libraries
Data setup considerations
Dynamic Knowledgebase for web publishing
Other considerations (time permitting)
- 17.30-18.30** Working session 2: Combination of ORNL DAAC and participant data sets **Schmullius**
Introduction, followed by participants divided into working groups
Facilitators: **Adolt / Reichstein / Vanderbilt**
- 18.30** **Dinner** – In the city centre

Wednesday, 20 November 2002

Day 4

- 8.30-10.15** Working session 2 cont'd
- 10.15-10.30** **Break**



- 10.30-12.30** Working session 3: Integration and use of multiple data sets **Cihlar**
 Introduction, followed by participants divided into groups working on ecological, flux, inventories, remote sensing, methodology manual, etc.
 Facilitators: **Shvidenko / Vanderbilt / Zimmermann**
- 12.30-14.00** Lunch
- 14.00-15.00** Working session 3 cont'd
- 15.00-16.15** Dynamic Atlas: Training 3 **Williams**
 Review of software
 Review of CEE carbon warehouse (**Adolt**)
 Present final warehouse structure and content
- 16.15-16.30** Break
- 16.30-18.30** Concluding session **Cihlar**
 Results, summary, conclusions, next steps, future activities
- 18.30-19.30** Dinner

Technical Organization Committee

Josef Cihlar and **Guenther Seufert** (carbon agenda)
Hugh Williams (Dynamic Atlas software agenda)

Radim Adolt
Chris Schnullius
Anatoly Shvidenko
Kristen Vanderbilt

General Workshop Organization

Reuben Sessa (on behalf of TCO, GTOS Secretariat)

Workshop Facilities and Travel

COMENIUS

