



Focus on High Resolution Digital Imagery and LiDAR Derived DEM Great Lakes St. Lawrence Forest Region - Course and Workshop Draft Agenda

Logistics

Date: Morning of Tuesday, December 6th to noon on Wednesday, December 7th, 2005

Times: 8:00am to 8:00pm (Dec 6th); 8:30am to 1:00pm (Dec 7th)

Location: Canadian Ecology Centre

Venue: GIS Lab (newly equipped with capacity of 30 computers) and Samuel de Champlain Provincial Park

Cost: \$100 (plus accommodation)

Facilitators: John Pineau, Murray Woods and Ken Durst

Accommodations:

Please book your own cabin with Hospitality Services at (705) 744-1715 ext. 0

Meals:

Breakfast will be provided on Dec 6th. All subsequent meals will be provided during the workshop, including a final lunch on Dec 7th. Please identify any special dietary requirements.

Other:

Please bring warm clothing and appropriate footwear for field exercises and outdoor activities. Convenience items are available in Mattawa or Rutherglen, both about 10 minutes from the CEC.

For additional information and to confirm participation:

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Desired Outcome:

The provision of an exciting opportunity to become familiar and work with newly delivered data (high resolution digital ortho-imagery and LiDAR DEM's) from the Great Lakes St. Lawrence Enhanced Forest Inventory Project (includes Kawartha Highlands, Petawawa Research Forest, Swan Lake – Algonquin Park, and Samuel de Champlain datasets).

Objectives:

- Provide demo and hands-on sessions with data and software.
- Provide training for the following useful software programs: TauDEM, MicroDEM, ArcGIS, Global Mapper, iLiDAR, QT Modeler
- Conduct high-end GPS field exercises using DEM and digital photos as back-drop/base data
- Present and discuss outcomes of Industry Inventory Workshop (previous week in Thunder Bay)

Tuesday December 6th, 2005

- 7:30 a.m.** **Breakfast**
- 8:00 a.m.** Housekeeping, Welcome, Introductions, Review of Desired Outcome (John Pineau)
- 8:10 a.m.** Data and Software (Murray Woods, John Pineau, Ken Durst and Paul Courville)
- A show-case of the data that has been acquired to date and examples of how it can be used within different software packages
- 8:40 a.m.** Session 1: MicroDEM (Ken Durst and Paul Courville)
- Demo and familiarization
 - Work with advanced functions
- 10:30 a.m.** Refreshment Break
- 10:50 a.m.** Session 2: Global Mapper
- Demo and familiarization
 - Work with advanced functions
- 12:00 p.m.** **Lunch**
- 1:00 p.m.** Session 3: GPS Field Exercises (in groups)
- High-end GPS Training
 - Collect data for interesting/relevant features (road, trail, wetland, forest stand, etc. within Samuel de Champlain Park)
 - G.I.S. lab – data load and comparison with imagery and DEM
- 5:00 p.m.** **Down Time**
- 5:30 p.m.** **Dinner**
- 6:30 p.m.** Session 4: ArcGIS (Paul Courville, Dave Nesbitt, and John Wright)
- Introduction
 - TauDEM
 - Leica Extensions
- 8:00 p.m.** Adjourn
- 8:30 p.m.** CEC Evening Activities (*optional*) – campfire, night vision, good old-fashioned fun etc.

Wednesday , December 7th , 2005

7:30 a.m.	Breakfast (<i>provided</i>)
8:30 a.m	Session 5: ArcGIS (continued) (Paul Courville, Dave Nesbitt, and John Wright)
10:00 a.m.	Refreshment Break
10:20 a.m.	Over-view presentation (Ken Durst and John Pineau) <ul style="list-style-type: none">• Summary Synthesis of Recent Forest Industry Enhanced Inventory Workshop
11:00 a.m	Facilitated Discussion/Round Table <ul style="list-style-type: none">• Enhanced Forest Resource Inventory
11:50 a.m.	Formal Course-Workshop Evaluation
Noon	Lunch Provided
1:00 p.m.	Adios

Workshop End Product:

The Forestry Research Partnership will produce a multi-media CD-ROM for all workshop participants that includes PowerPoint presentations, digital video clips, reference materials for software exhibited, and recorded notes taken during facilitated discussion. The CD will be ready for distribution within 10 working days.