

EMAN Terrestrial Ecosystem Monitoring Training
 Wolfville, NS
 Saturday May 26 - Monday May 28, 2007

* indicates in class ^ indicates in field

Saturday May 26, 2007

8:00-8:30	Registration
08:30-09:30	Workshop Introduction * <ul style="list-style-type: none"> • Overview and workshop objectives (Heather Andrachuk, EMAN CO) • Monitoring Frameworks & Linking Ecosystem Monitoring to Policy and Decision Making (Hague Vaughan, EMAN CO)
9:30-9:50	Community Based Environmental Monitoring Network* (Cathy Conrad, Saint Mary's University)
9:50-10:15	Monitoring Tree Health introduction* (Bob Sajan, Canadian Forest Service)
10:15-10:30	Break
10:30-12:00	Concurrent Workshops A1 <ol style="list-style-type: none"> 1. Study Design* (Dan Kehler, Parks Canada) 2. Tree Health^ (Bob Sajan, Canadian Forest Service)
12:00-13:00	Lunch
13:00-14:30	Concurrent Workshops A2 <ol style="list-style-type: none"> 1. Study Design* (Dan Kehler, Parks Canada) 2. Tree Health^ (Bob Sajan, Canadian Forest Service)
14:30-15:00	Introduction to plot based terrestrial vegetation monitoring* (EMAN CO, Kejimikujik National Park, Clean Annapolis River Project)
15:00-15:15	Health Break
15:45-18:00	Establish EMAN Terrestrial Vegetation Monitoring plots^ (Surveying, Tree tagging, Tree ID, Diameter at Breast Height (DBH) measurement, Tree status, Tree height, Tree mapping, Data recording)

Sunday, May 27, 2007

8:30-9:30	Concurrent Workshops B1 <ol style="list-style-type: none"> 1. Introduction to information management* (Marlene Doyle, EMAN CO) 2. Shrub and Seedling regeneration^ (Bob Sajan)
9:30-10:30	Concurrent Workshops B2 <ol style="list-style-type: none"> 1. Introduction to information management* (Marlene Doyle, EMAN CO) 2. Shrub and Seedling regeneration^ (Bob Sajan)
10:30-10:45	Break
10:45-11:45	NatureWatch and other Nova Scotia citizen science programs*^ (Heather Andrachuk, EMAN CO; Brennan Caverhill, Parks Canada; Crystal

	<i>Doggett, Mersey Tobiatic Research Institute)</i>
11:45-12:45	Lunch
12:45-16:15	EMAN Ecosystem Monitoring Protocols^ (<i>EMAN CO, Kejimikujik National Park, Clean Annapolis River Project</i>) Complete plot establishment if required. Tree health inventory, Downed Woody Debris, Soil Decomposition, Shrub and Seedling Regeneration sub-quadrat establishment, Plethodontid Salamanders
16:15-18:30	Terrestrial Vegetation Biodiversity Monitoring and Tree Health Data entry and mapping* (<i>Marlene Doyle, EMAN CO</i>)

Monday, May 28, 2007

05:30-07:00	Field Avian Monitoring^ (optional)
07:00-08:00	Breakfast
08:00-09:00	Ground truth forest plot maps^
09:00-12:00	Concurrent Workshops C 1. Terrestrial Plant Invasive Species*^ (<i>Marika Godwin</i>), PlantWatch (<i>Melanie Priestnik</i>), 2. Arboreal Lichens for Monitoring Air Quality*^ (<i>Rob Cameron, Nova Scotia Environment and Labour; Heather Andrachuk, EMAN CO</i>)
12:00-13:00	Lunch
13:00-16:00	Concurrent Workshops C 1. Terrestrial Plant Invasive Species*^ (<i>Marika Godwin</i>), PlantWatch (<i>Melanie Priestnik</i>) 2. Arboreal Lichens for Monitoring Air Quality*^ (<i>Rob Cameron, Nova Scotia Environment and Labour; Heather Andrachuk, EMAN CO</i>)
16:00-16:30	Health Break
16:30-17:00	EMAN Terrestrial Monitoring Certification Examination
17:00-17:30	Workshop Close

Additional Information

Equipment

Field equipment will be provided.

Please bring the following with you, if possible:

- Clothes suitable for outdoor sampling, including rain gear
- Bug suit and insect repellent
- Sunscreen
- Laptop computer (for data entry)
- Tree and plant ID reference materials

Course Materials

Course materials will be provided to each participant on CD.

Preparatory Reading:

Familiarity with the EMAN Terrestrial Vegetation Monitoring Protocols would benefit participants. The documents can be viewed at: <http://www.eman-rese.ca/eman/ecotools/protocols/terrestrial/>

An excellent book on ecological monitoring is: Monitoring Plant and Animal Populations by Elzinga, C. L., Salzer, D.W., Willoughby, J. W. and Gibbs, J.P. 2001. Blackwell Science, Inc. ISBN 0-632-04442-X

This book will effectively complement the presentation by Dan Kehler on Issues of Study Design.