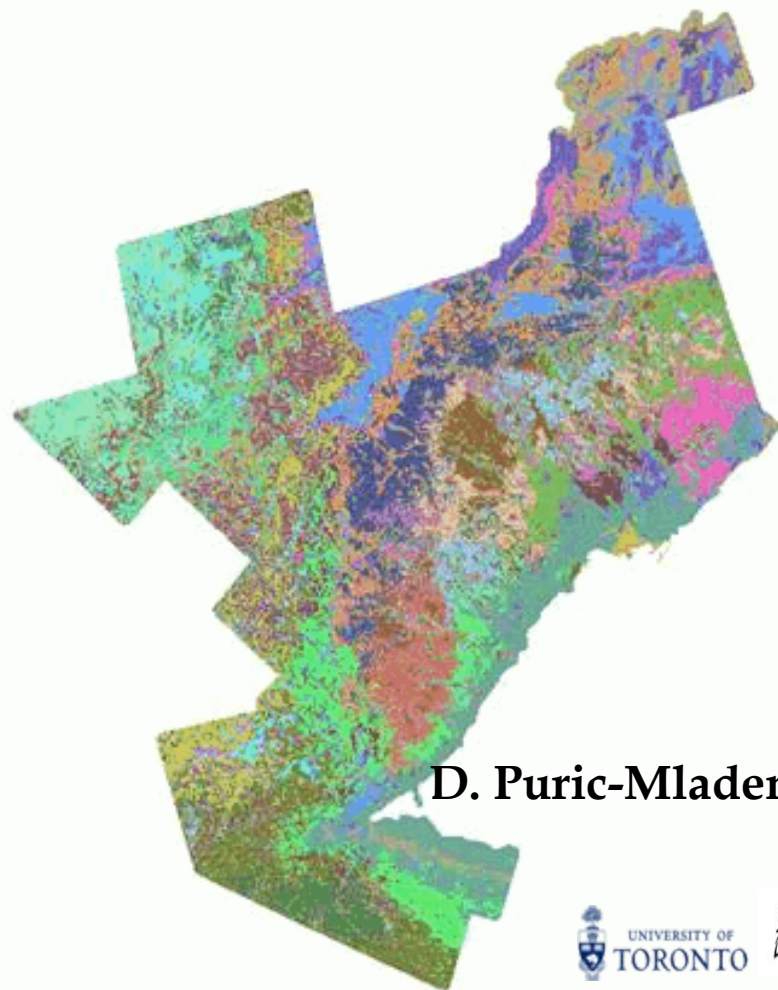


Reclaiming the Past to Inform the Future



THE GHOST OF CHRISTMAS PAST

This ghost took Scrooge to scenes from his boyhood to stir his gentler and more tender side by reminding of a time when he was more innocent.



D. Puric-Mladenović





**....The timber was all hard timber,
walnut, of most luxuriant growth beech
and basswood, and oak and maple.**

A. Jameson. 1838. Winter Studies and Summer Rambles in Canada

The best land is timbered with oak , ash, elm, beech, basswood and sugar maple. A fair mixture of this species is of trees is best, with here and there a large pine, and a few Canadian balsams scattered among the hardwood.

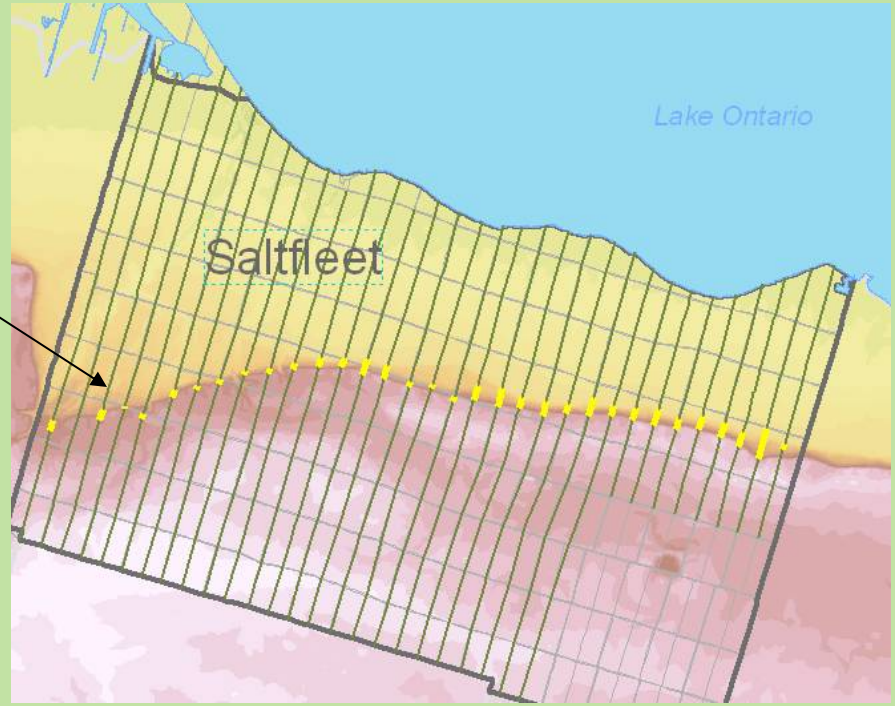
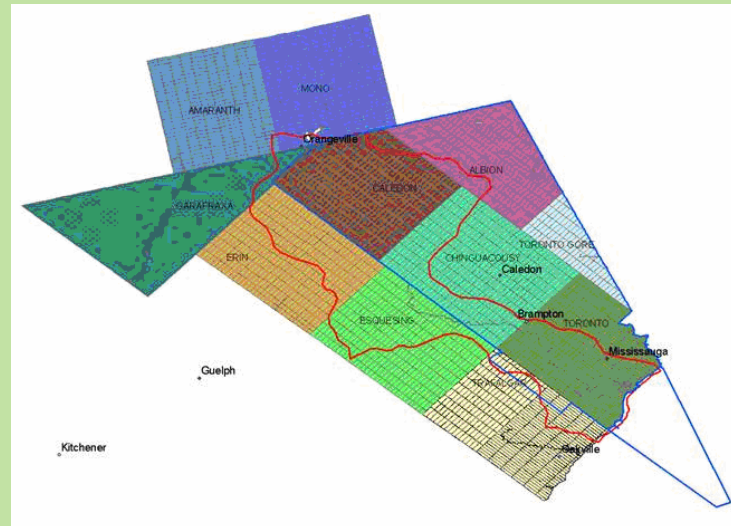


S. Strickland. 1853. Twenty-seven years in Canada West.

- Study area: York, Peel, Halton, Hamilton, CVC, Toronto
- Land surveying from 1793 to 1838



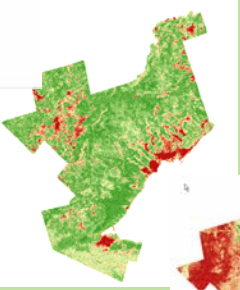
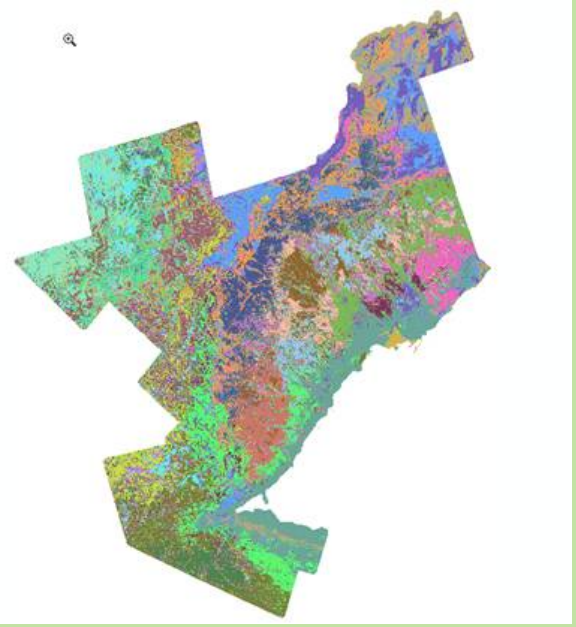
ASTRONOMICAL COURSE AND VARIATION.	CORRES. OR LOT.	DISTANCE.		TIMBER, SOIL AND REMARKS.
		CHAINS.	LINKS.	
South	Con ²			Con ¹ forward from last page
to road 2 ¹ / ₂ W III		93	60	Level rocky land - sandy soil - timber white birch, spruce
to road 4		99	50	Rolling rocky land - hem birch poplar to Con III, IV as run by the survey of said Con ² Road
		1	00	Road allow aces
	Con ²			Commencing in front of Con ² IV
South	IV V	12	50	Hilly rocky land soil - hem & land timber, hem, birch maple
to road 4 ¹ / ₂				20 00 Meeting even land - clay & sandy soil - timber hem, birch & large pine
		28	13	Rough rocky land - timber as before to the North angle of an equilateral triangle used for measuring across a river or creek
		29	13	to said River
		32	05	acres said River as run by chains one of the sides.



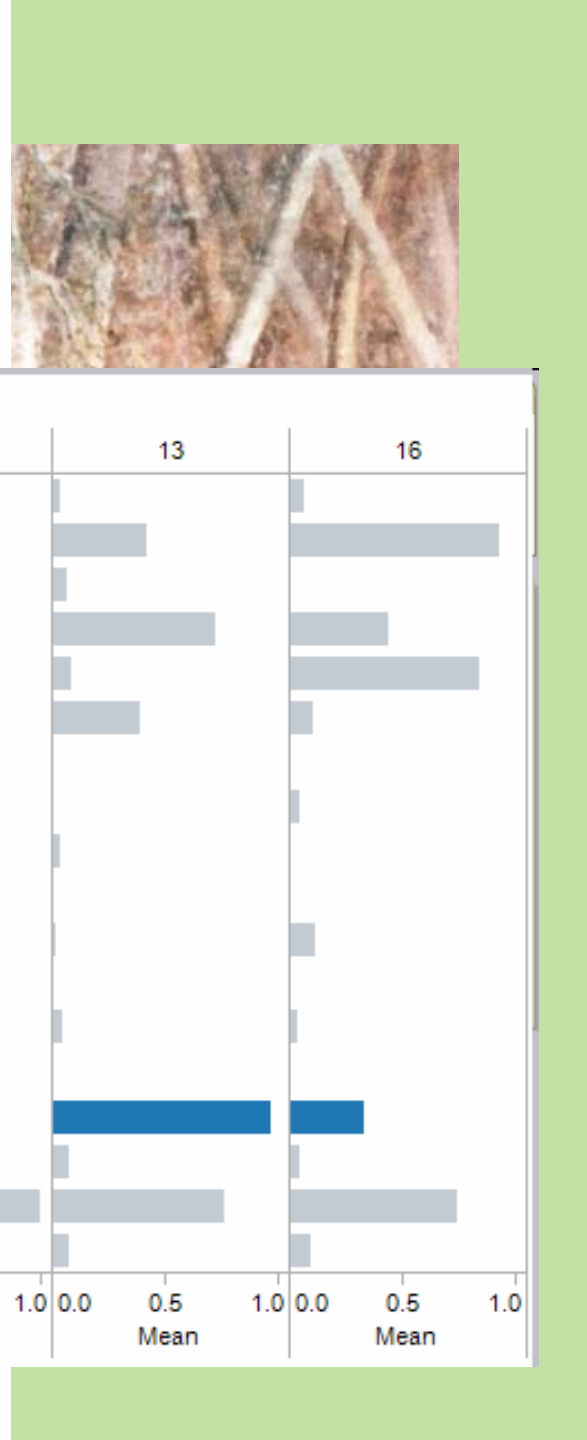
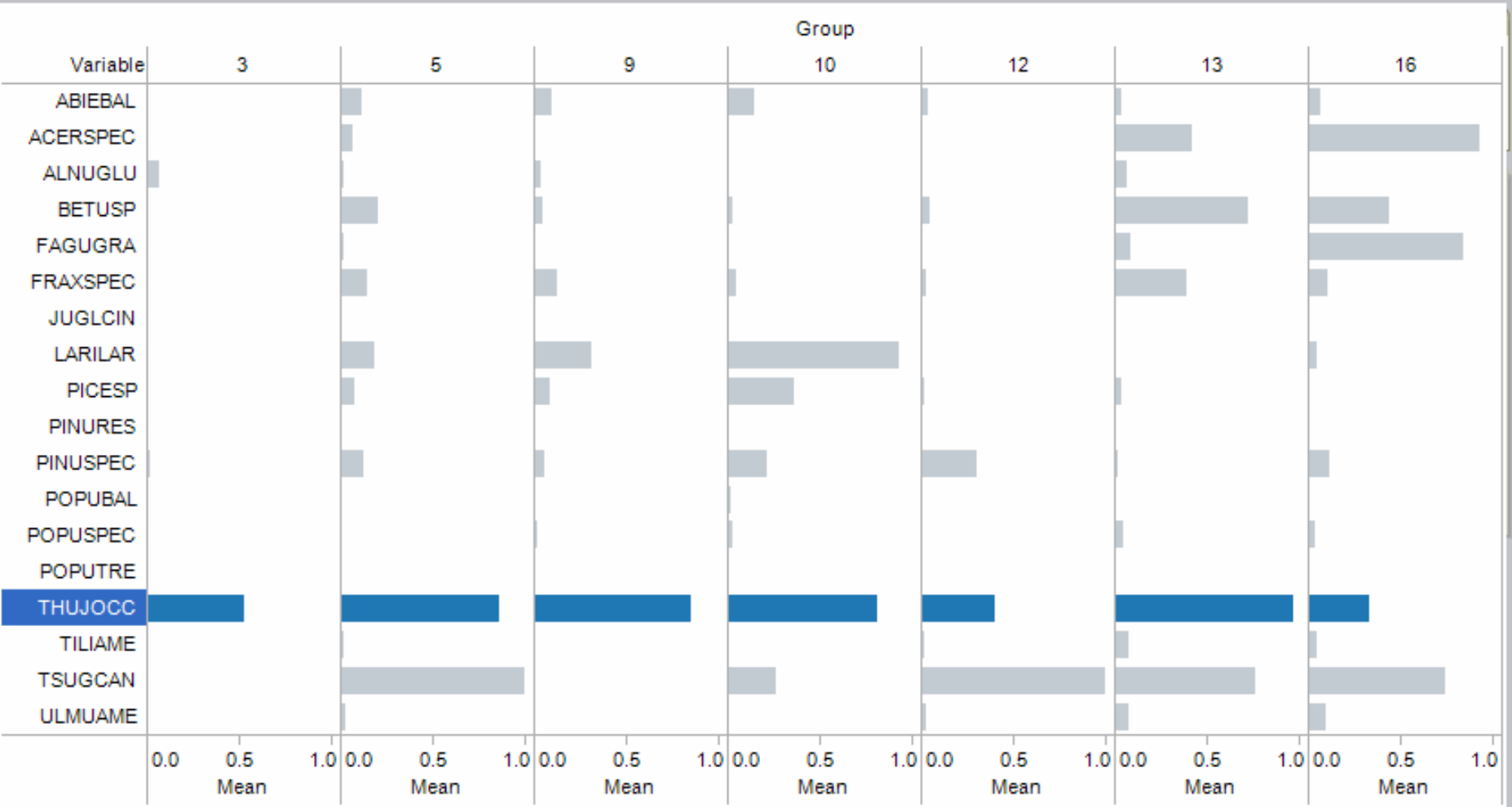
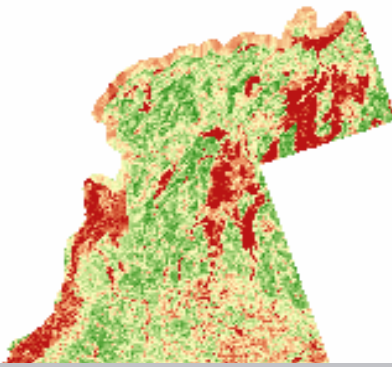
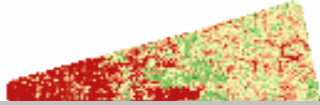
Sample entry from land surveyors' notes: Stegman's field notes of the township of Vaughan 1798, 2nd concession.

Lot Number	Chains	Links	Remarks
1	19	20	maple, elm and bass wood
2	20	20	ash and elm, low land

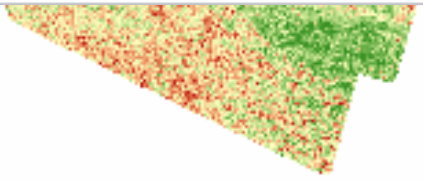
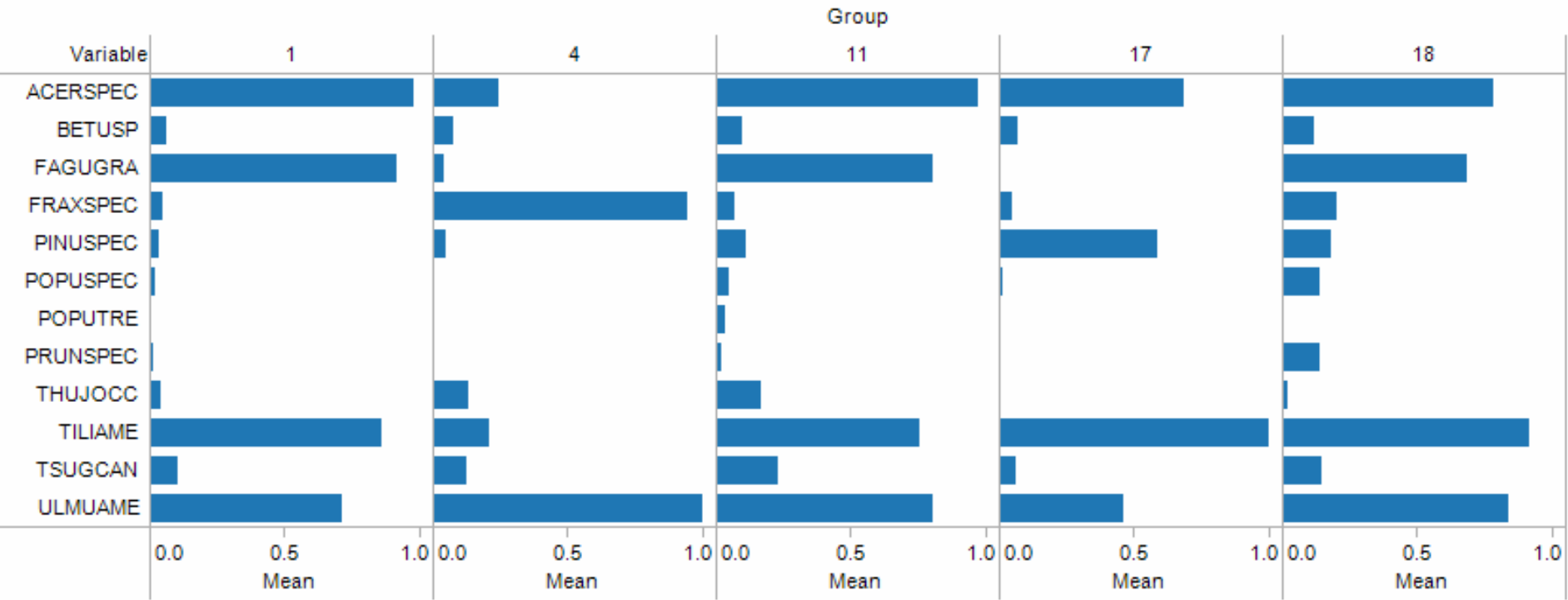
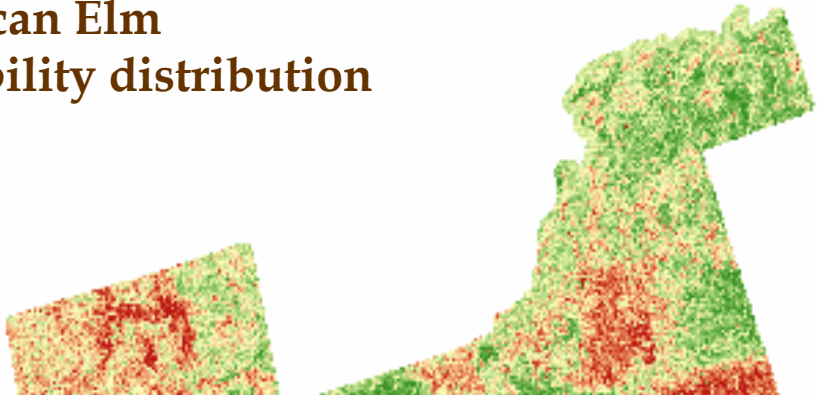
ASTRONOMICAL CORRECTION AND VARIATION.	CORRECTED OR LAT.	DISTANCE:		TIMBER, SOIL AND REMARKS.
		CHAINS.	LINKS.	
South	Cor ²			Cont. forward from last page
East 1/2 North	93	60		Level rocky land - sandy soil - timber white birch, spruce
W. 1/2 N.	99	50		Rolling rocky land - hem. birch poplar to Con. III & IV as shown by the survey of said Con. Road
		1	00	Road allow-ance
	Cor ²			Commencing in front of Con. IV
South	105	50		Hilly rocky land - soil - hem. birch timber, hem. birch maple
to road 1/2		20	00	Mix'd hilly green land - clay & sandy soil - timber hem. birch & large pine
		28	13	Rough rocky land - timber as before to the North angle of an equilateral triangle used for measuring the size of river or creek
		29	12	to said River
		32	05	across said River as shown by



Eastern White Cedar probability distribution



American Elm probability distribution





American Chestnut



Habitat Range Map



Probability of Pre-Settlement Distribution of American Chestnut

8

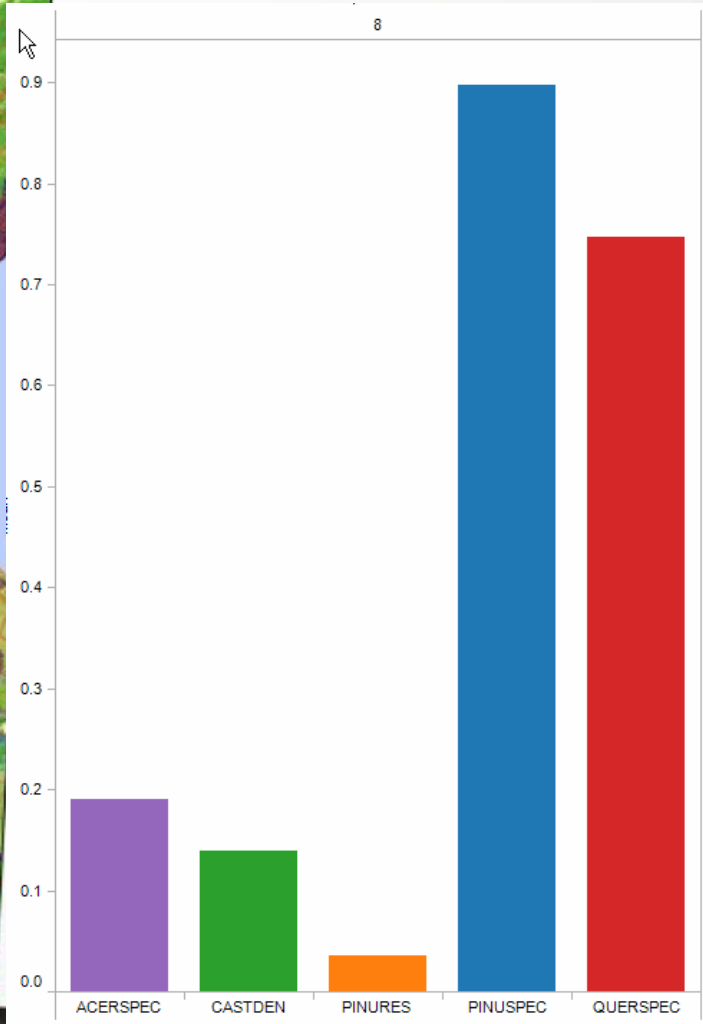
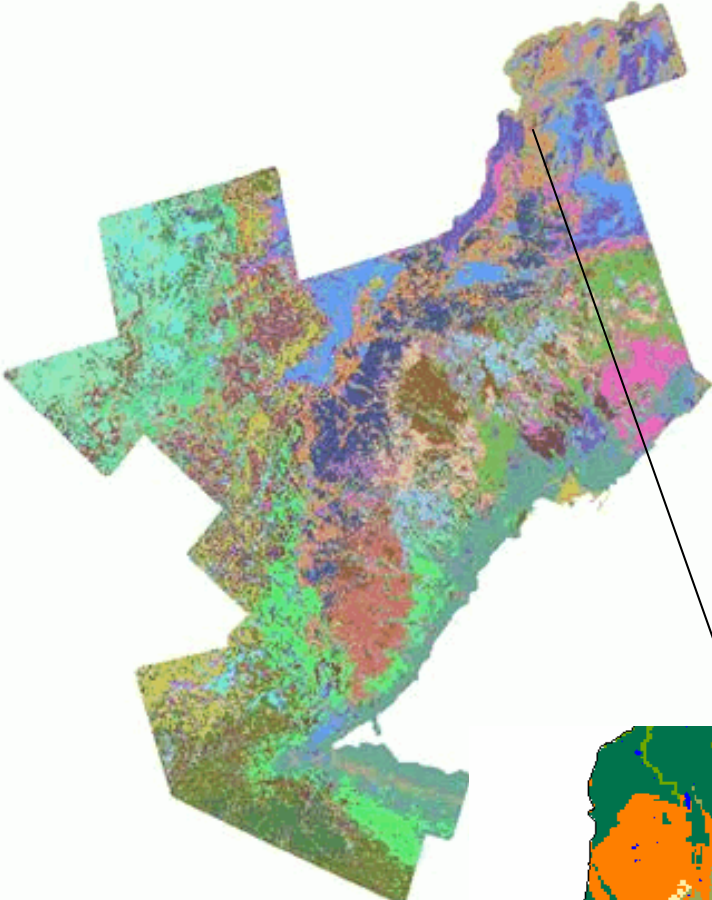


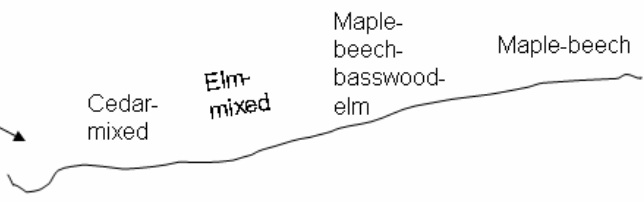
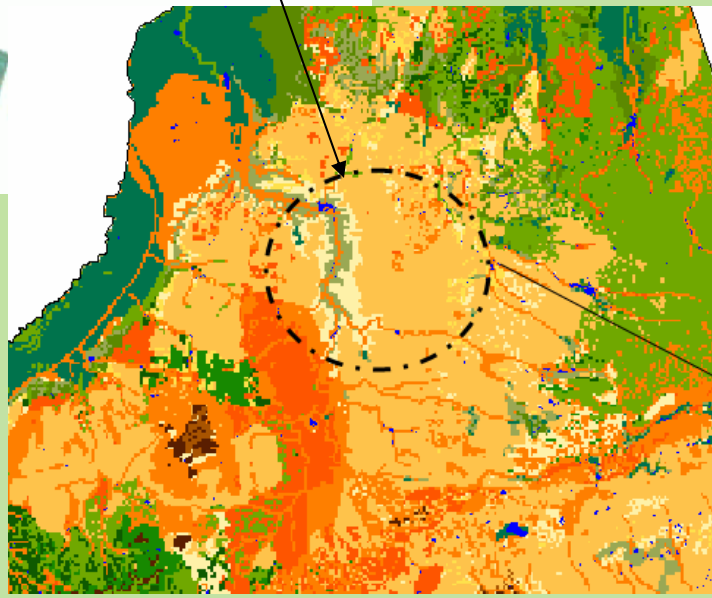
Photo credit: American Chestnut, courtesy of ROM

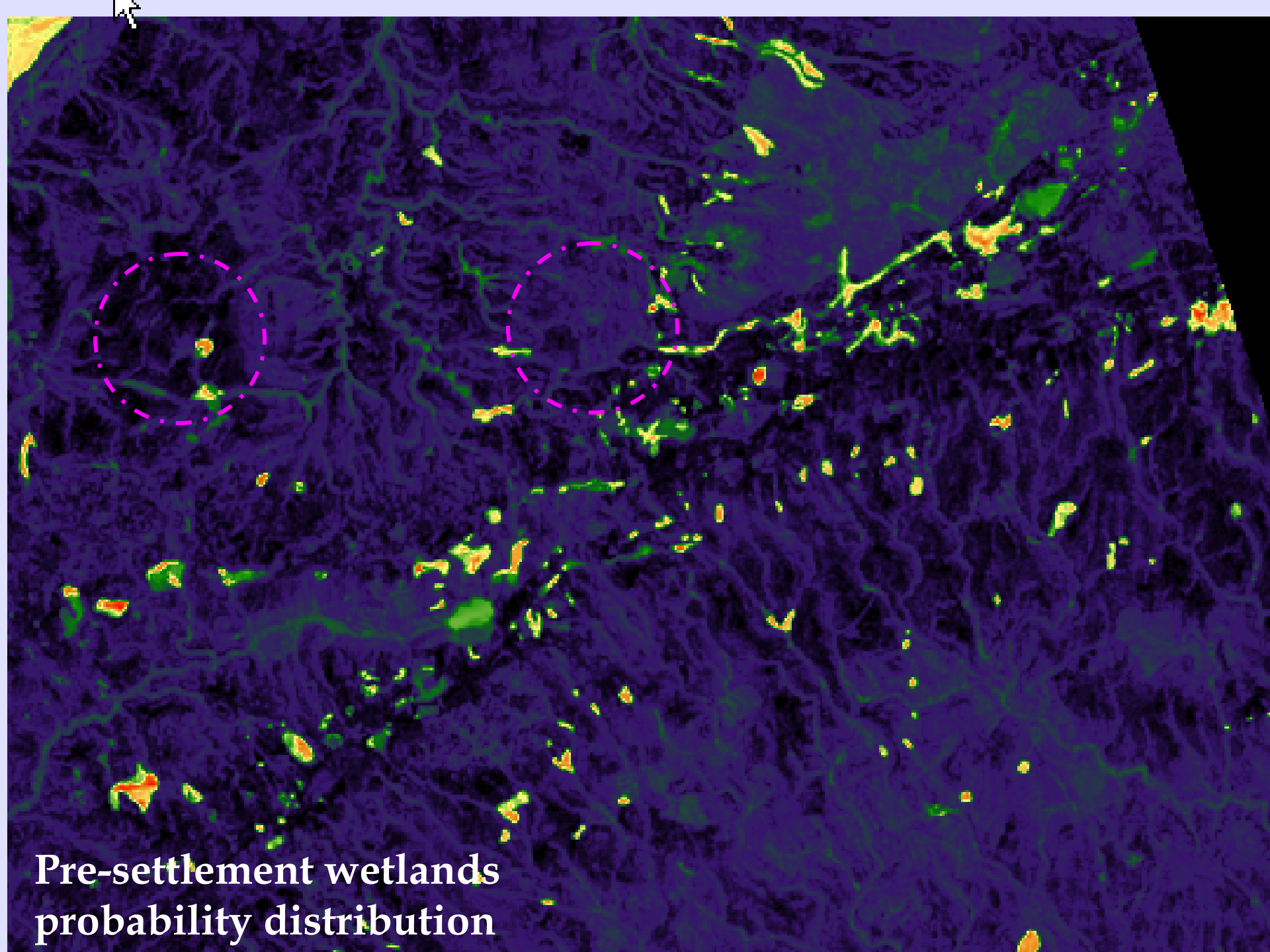
Preliminary map of pre-settlement vegetation types



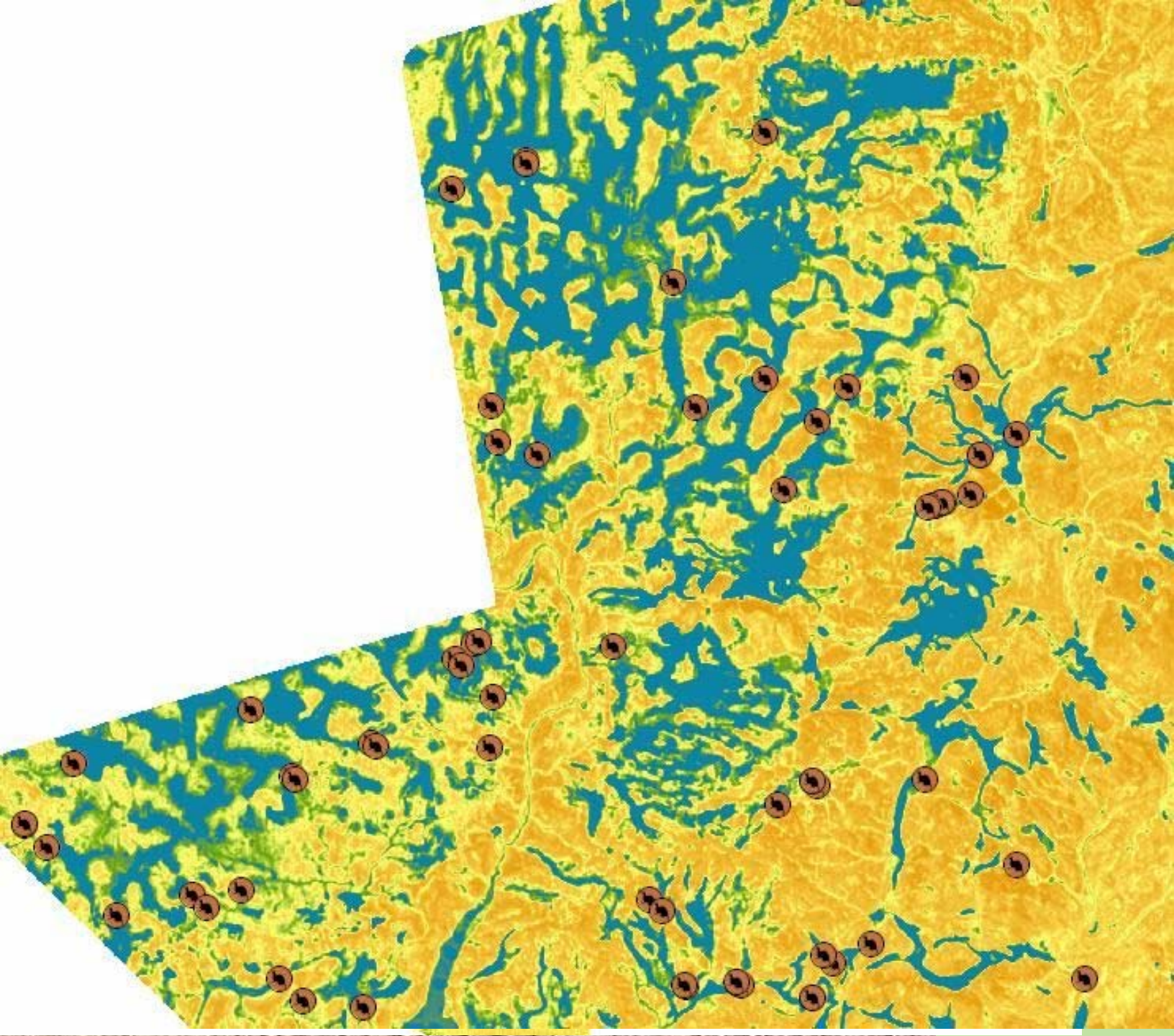
Modified ELC vegetation types

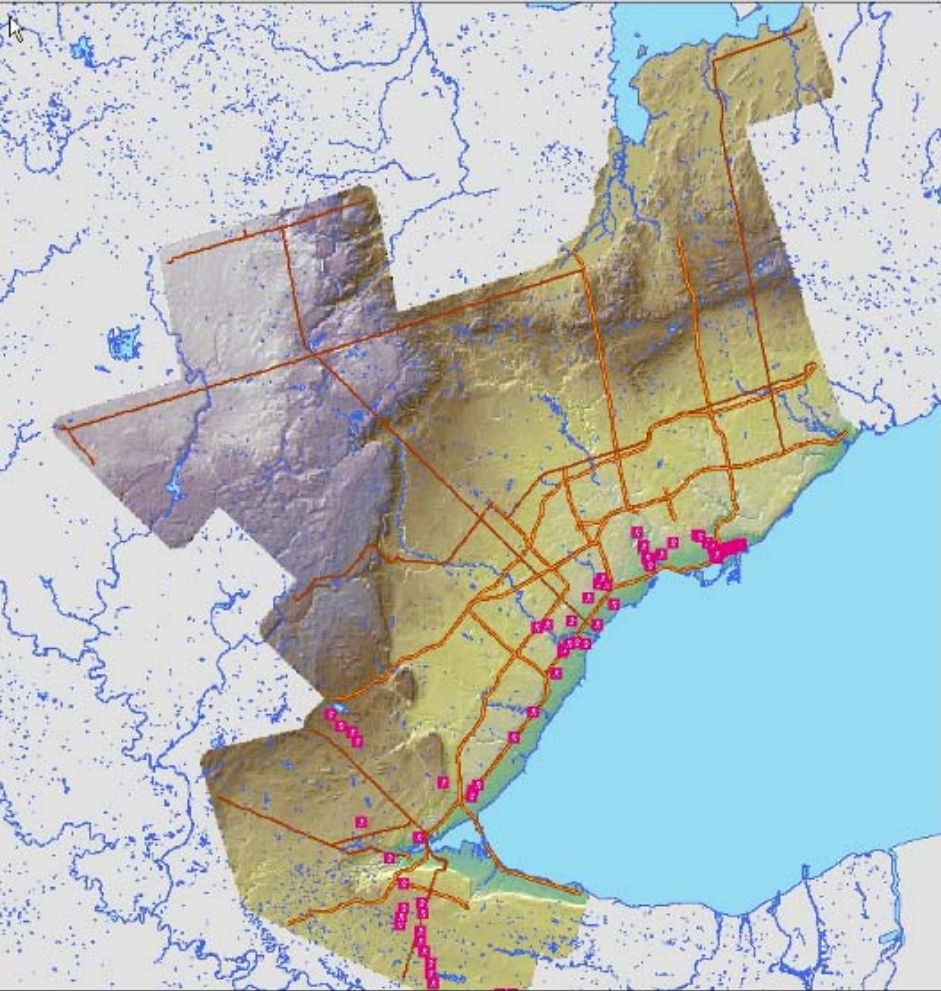
- ash/yellow birch
- beech
- cedar
- cedar-hemlock
- cedar-mixed
- elm
- hemlock
- hemlock-mixed
- hemlock-pine
- maple
- maple-basswood
- maple-beech
- maple-beech-oak
- maple-birch
- maple-conifer
- maple-elm
- maple-hemlock
- maple-mixed
- maple-oak
- maple-oak-pine
- oak (red)
- pine
- tamarack
- tamarack-spruce
- lakes





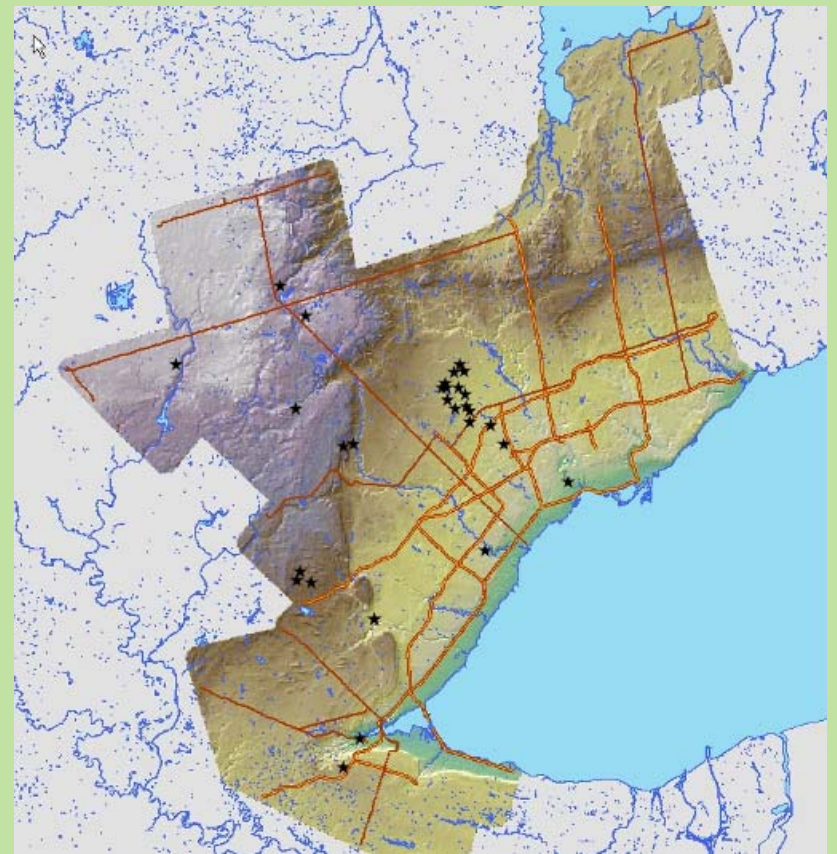
**Pre-settlement wetlands
probability distribution**





Paths and trails

Good mill sites

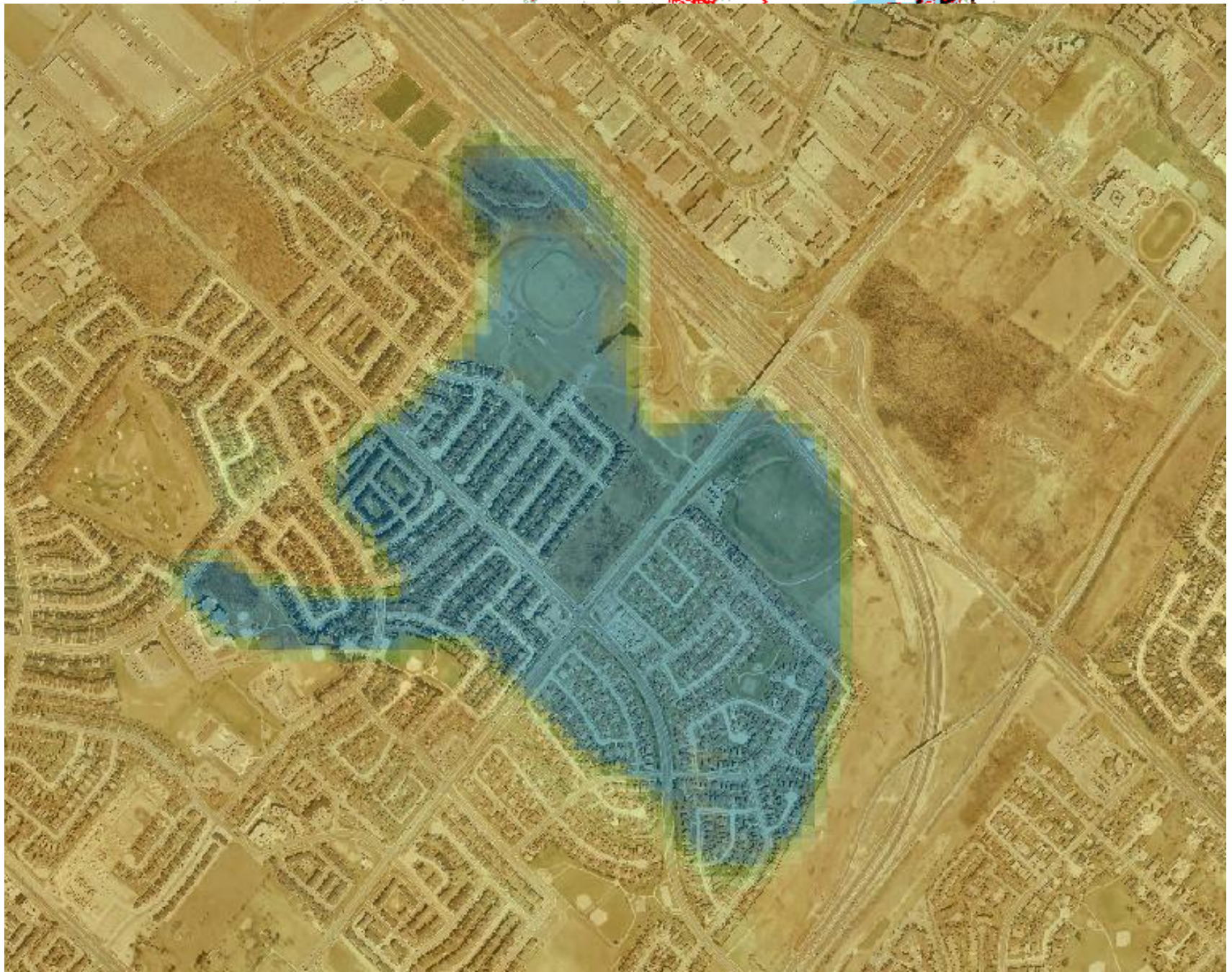


St. Clair Ave

UofT















2



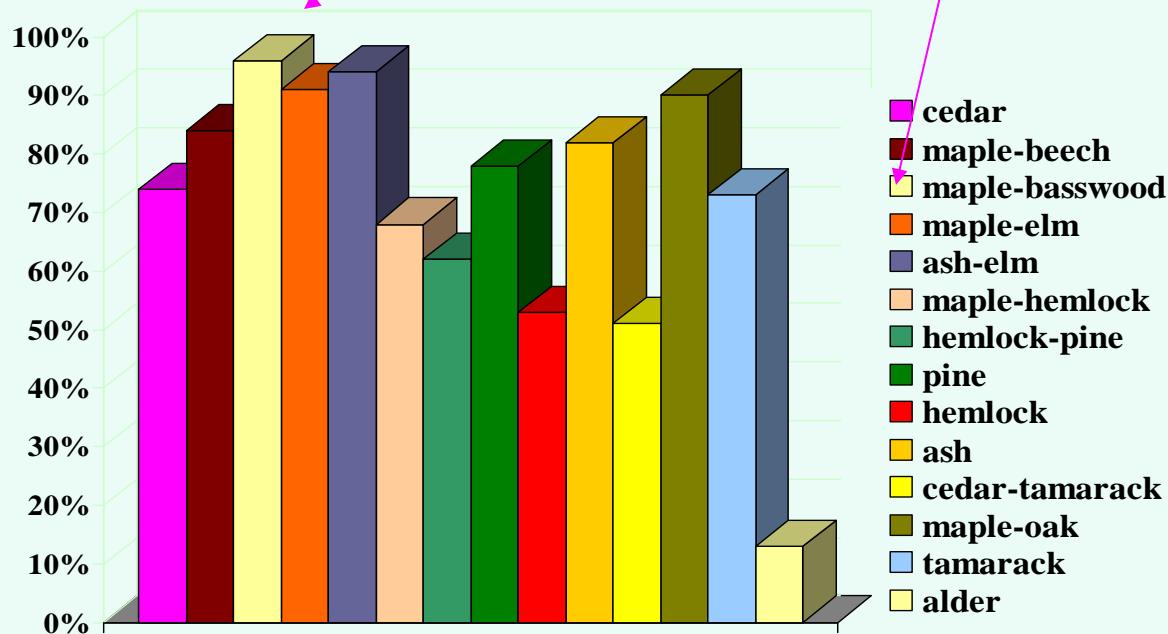
High : 1
Low : 0.1

Why to look back

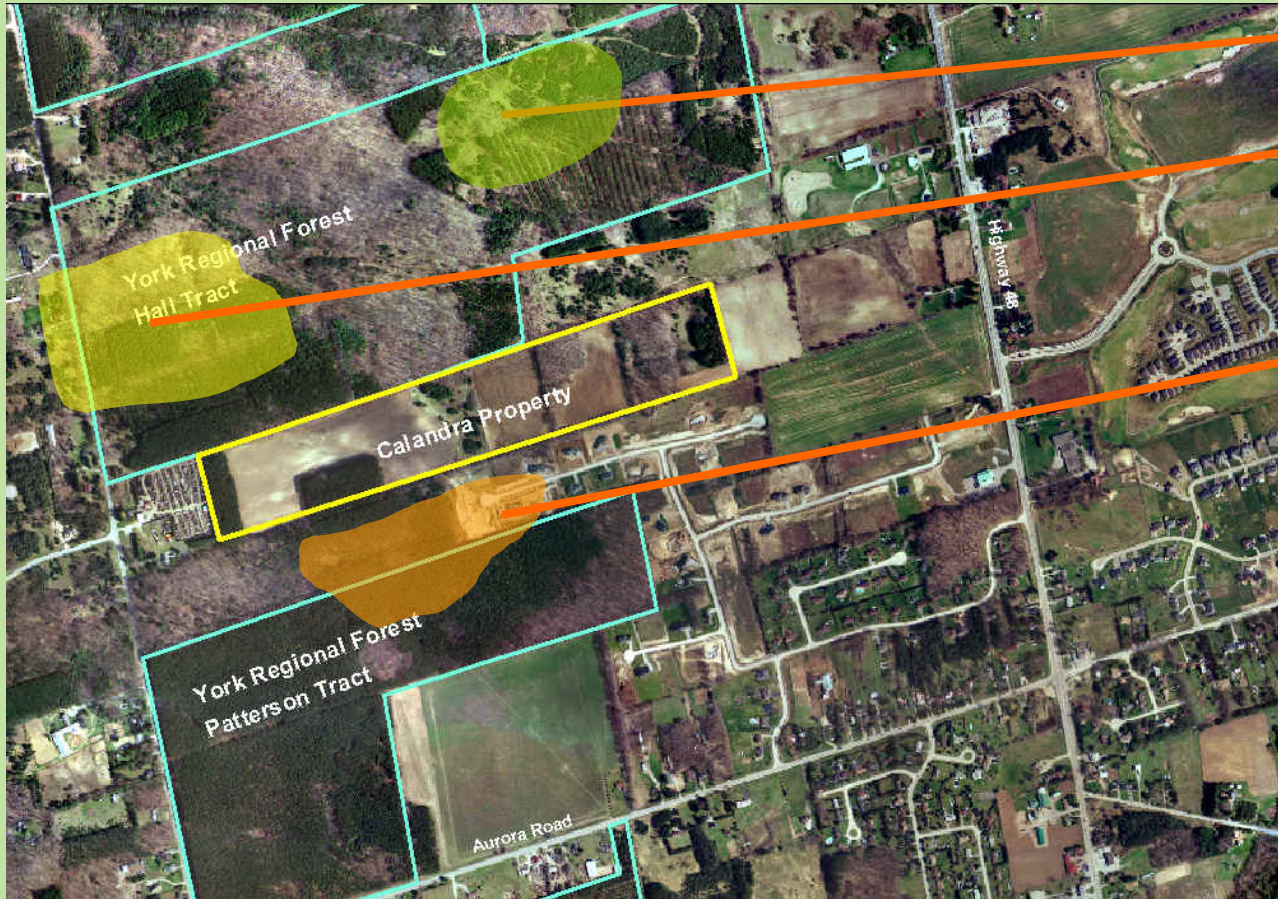
- Sense of place
- Present state can't (shouldn't) be taken as a threshold
- SAR recovery planning
- Restoration
- Habitat protection
- Landscape and natural system planning
- Forest management
- Climate change
- Education
-

- **As land managers, decision-makers, and the public we have no information and knowledge about what the natural vegetation was like before, what it could be, and what it's current state is.**
- **As a result of this, we accept the current state as an upper threshold, which leads to further forest loss and degradation.**

Forest types loss (GAP analysis)



Forest (stand) management



- *Hemlock-pine*
- *Hemlock-maple*
- *Maple-mixed*

“If we are serious about restoring ecosystems health and ecological integrity, then we must first know what the land was like to begin with”

American ecologist Aldo Leopold

Team members, technical and expert support

Southern Science and Information

- Julia Buck
- Iain Rayner
- Geoff Clark
- James McHattie
- David Bradley
- Nayna Khalatkar,
- Gergin Naoumov
- Ryan Large

Faculty of Forestry University of Toronto

- Dr. Andy Kenney
- Alex MacIntosh
- Shahwar Aslam

Natural Heritage Information Center

- Wasyl Bakowsky

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Eric Ansel, Jim Macdonald Deborah Scott,
Donna Gertridge

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