The North American Soil Geochemical Landscapes Project

Maritimes Soil Survey Results – February 2008

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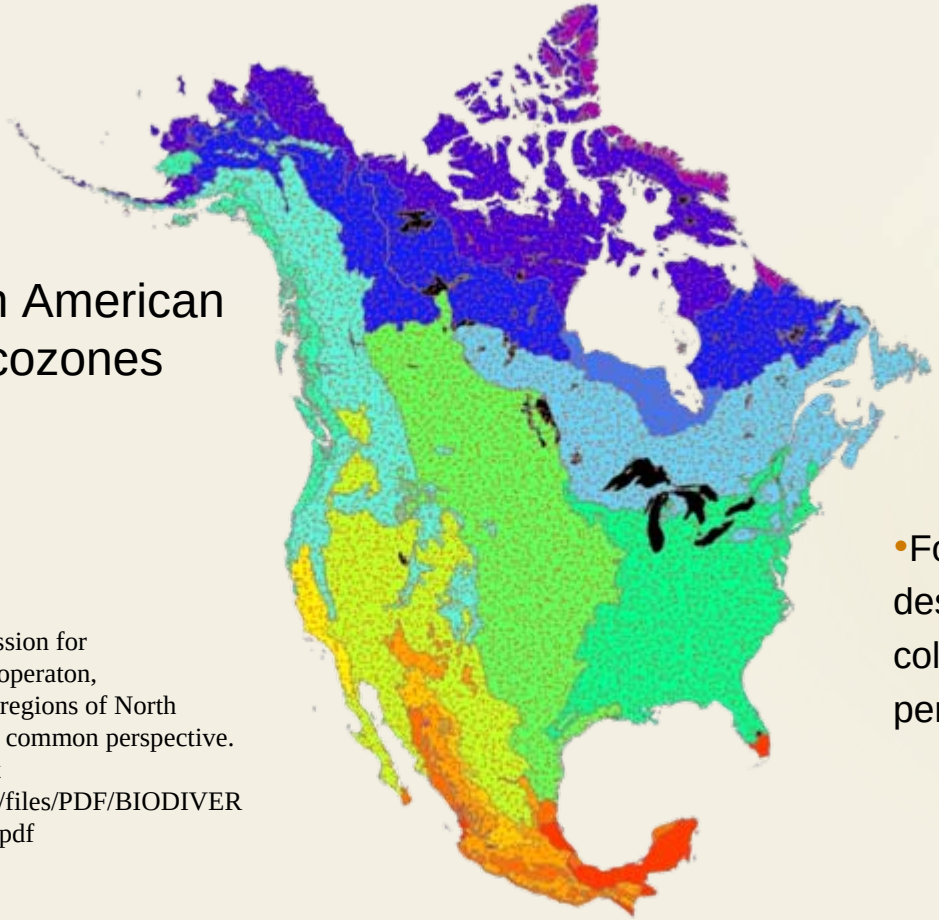
Natural Resources Canada

Geological Survey of Canada

The Plan – The Design

Soil Geochemical Landscapes Project

North American Ecozones

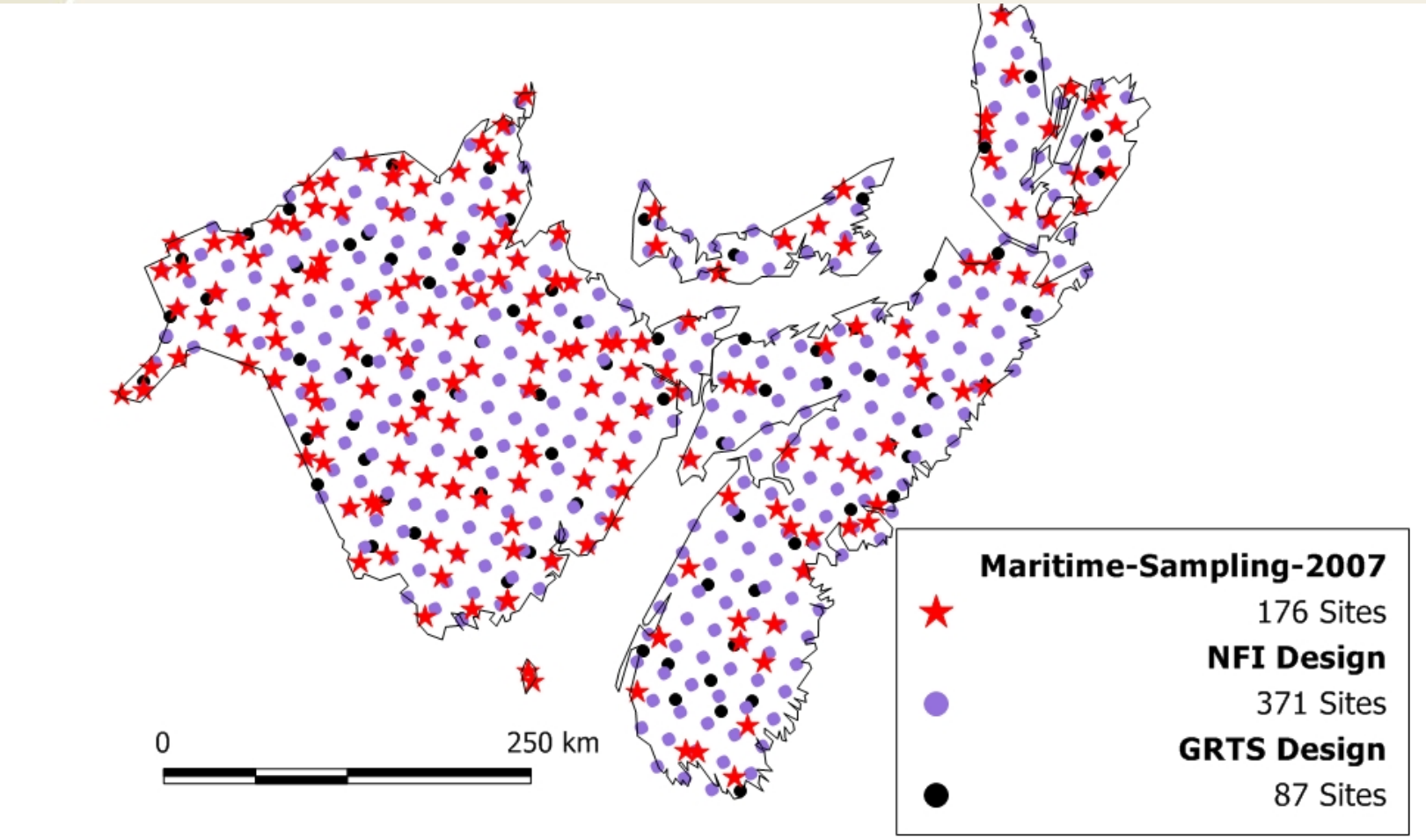


Ecozones: Commission for Environmental Co-operaton, 1997: Ecological regions of North America - toward a common perspective. Legend available at http://www.cec.org/files/PDF/BIODIVERSITY/eco-eng_EN.pdf

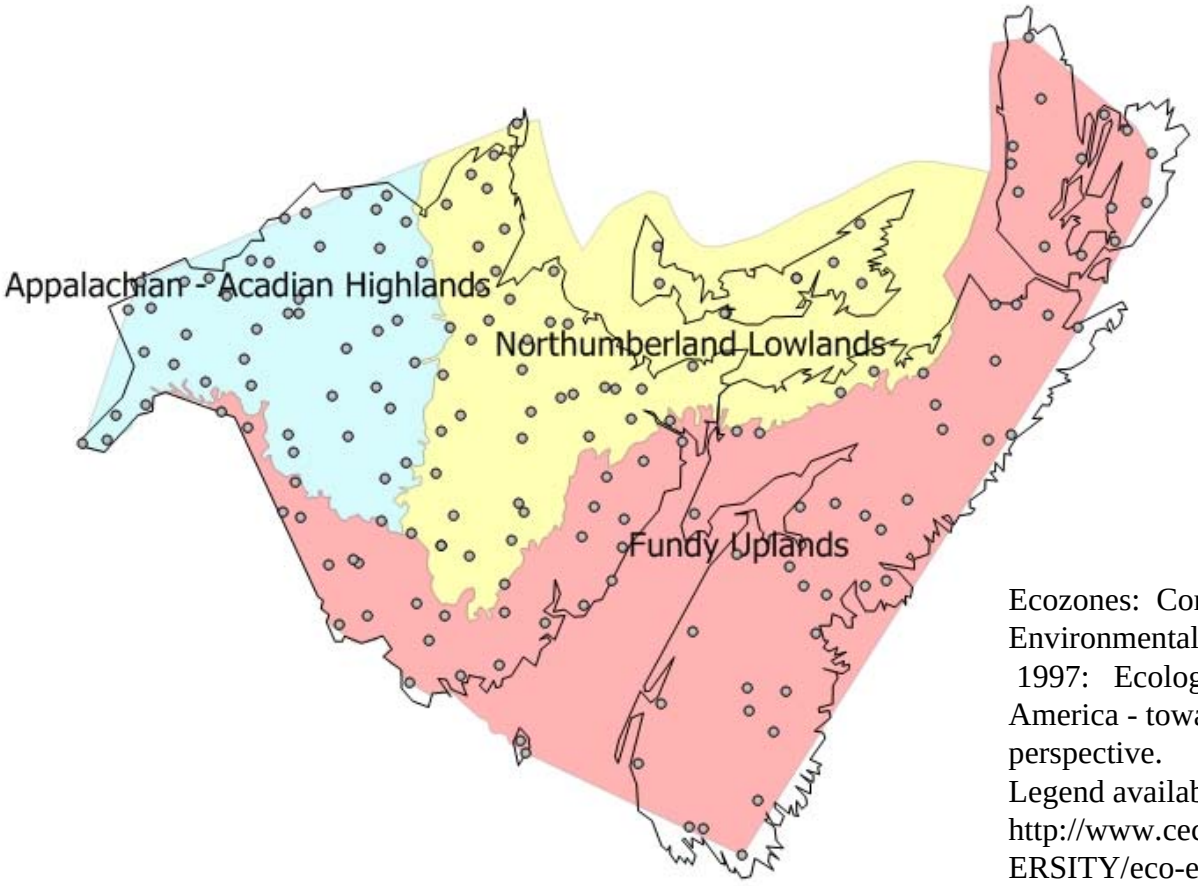
Soil Sample Locations

- For North America, the sampling design is based on >10,000 samples collected at a mean density of 1 site per 1,600 km^2

Maritime Sampling 2007



Ecological Provinces of the Maritimes



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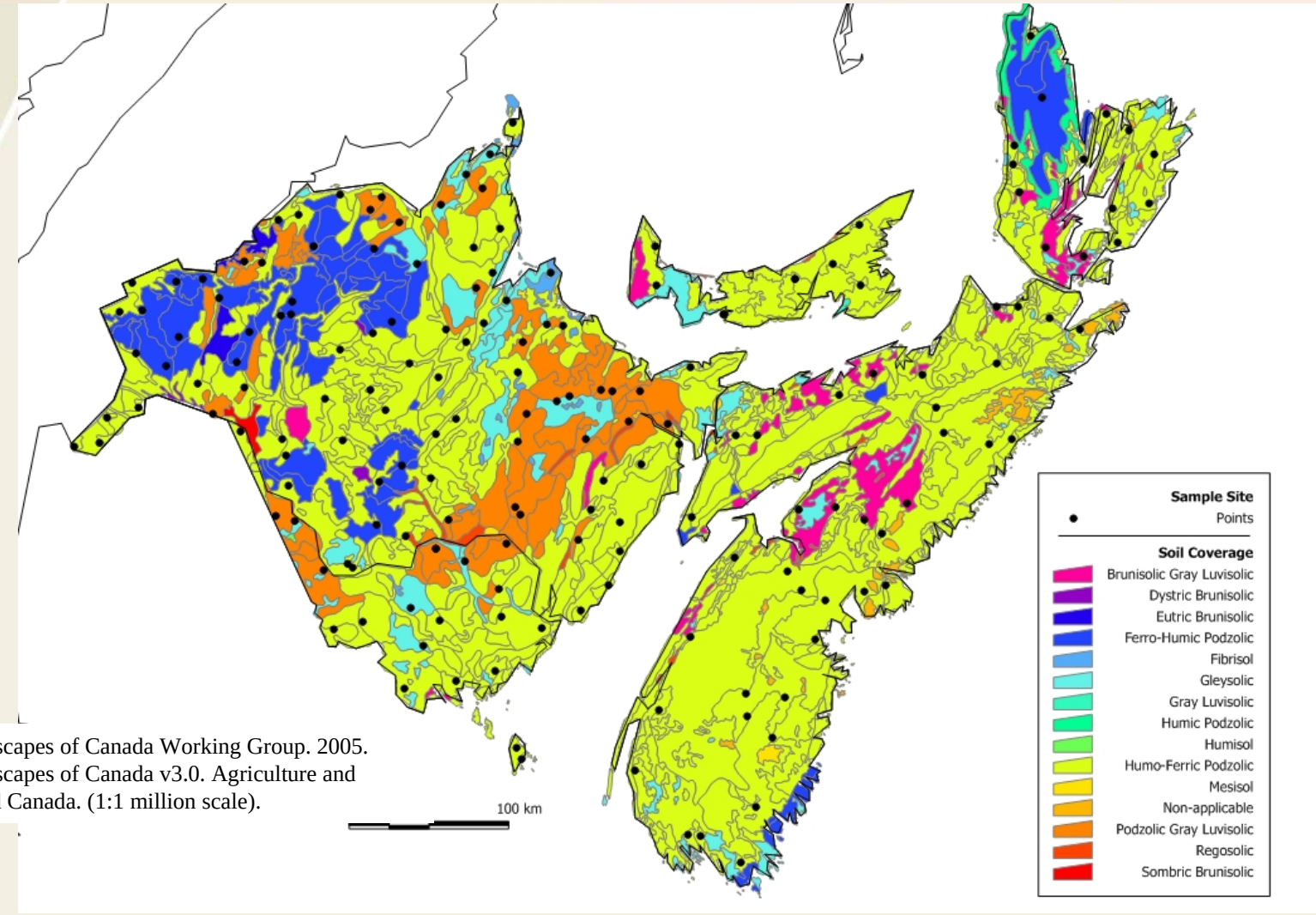
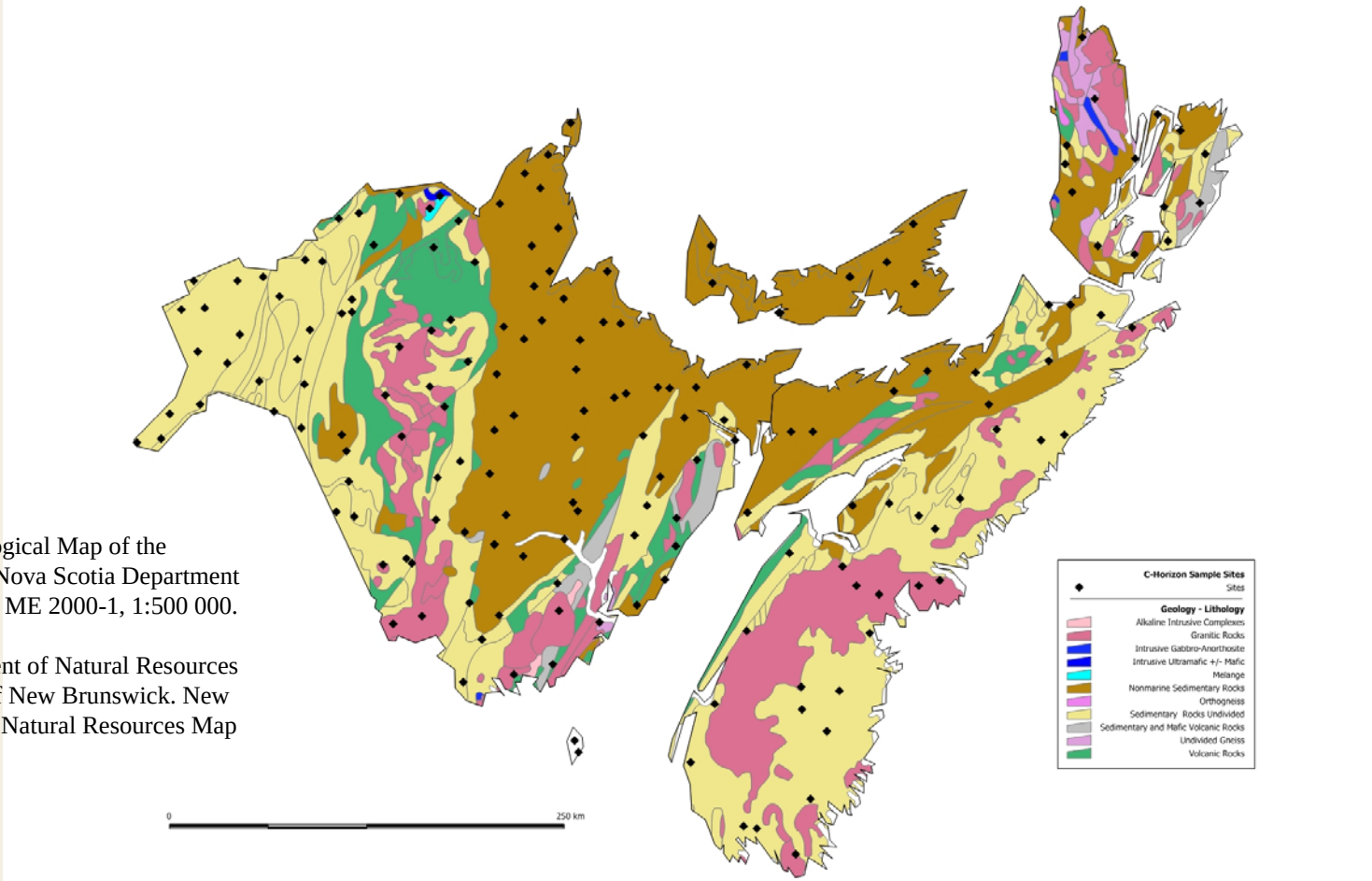
Soils Map



Soil Landscapes of Canada Working Group. 2005. Soil Landscapes of Canada v3.0. Agriculture and Agri-Food Canada. (1:1 million scale).

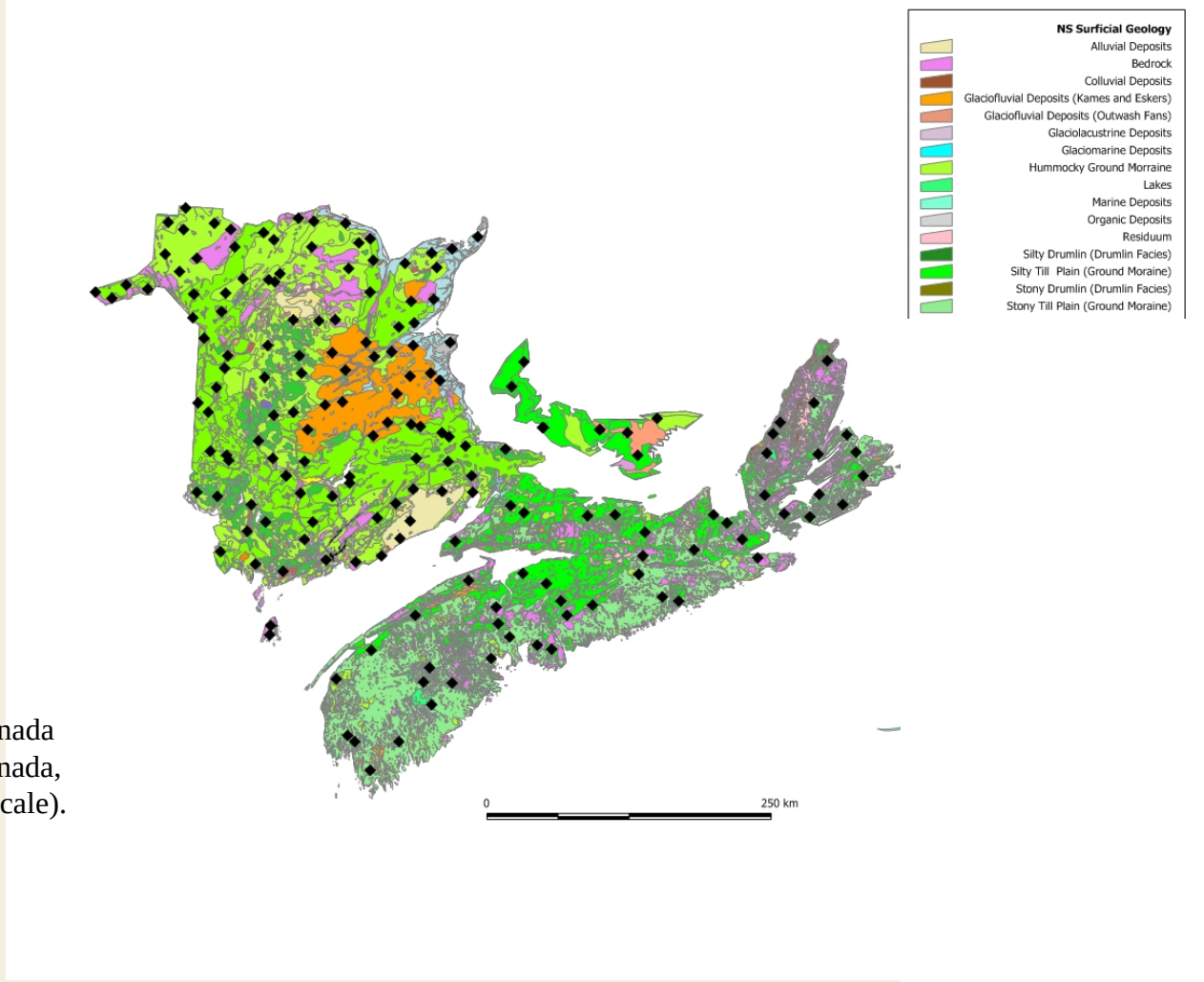
Lithologic Map



Sources:
Keppie, J.D. 2000. Geological Map of the Province of Nova Scotia. Nova Scotia Department of Natural Resources Map ME 2000-1, 1:500 000.

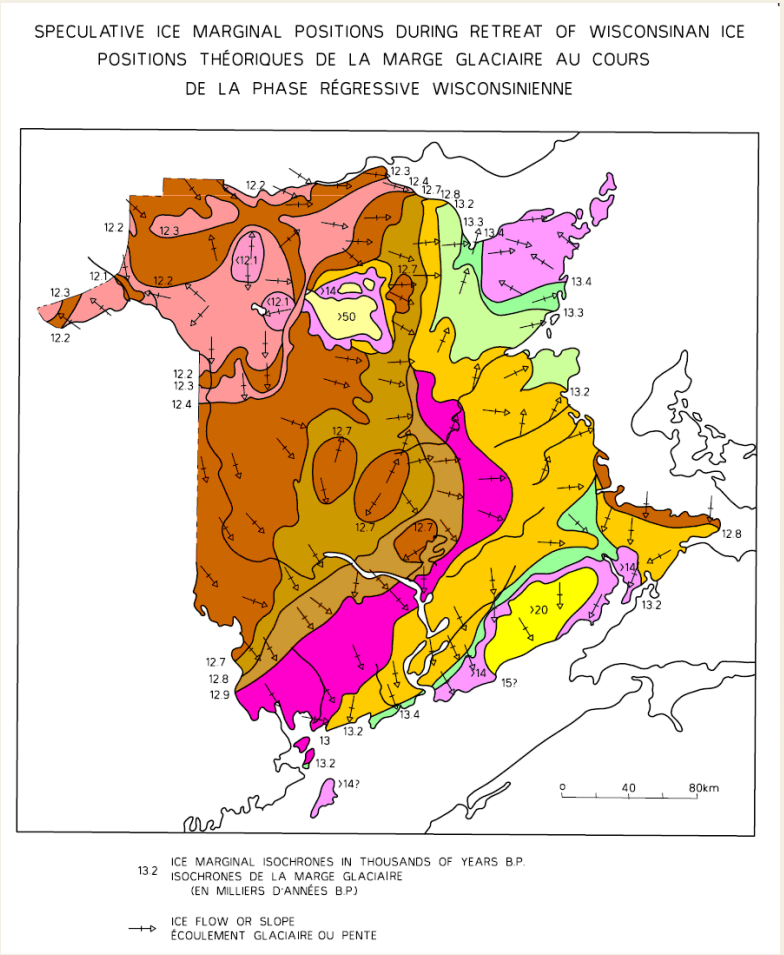
New Brunswick Department of Natural Resources 2000. Bedrock geology of New Brunswick. New Brunswick Department of Natural Resources Map NR 1-2000 edition.

Surficial Geology Map



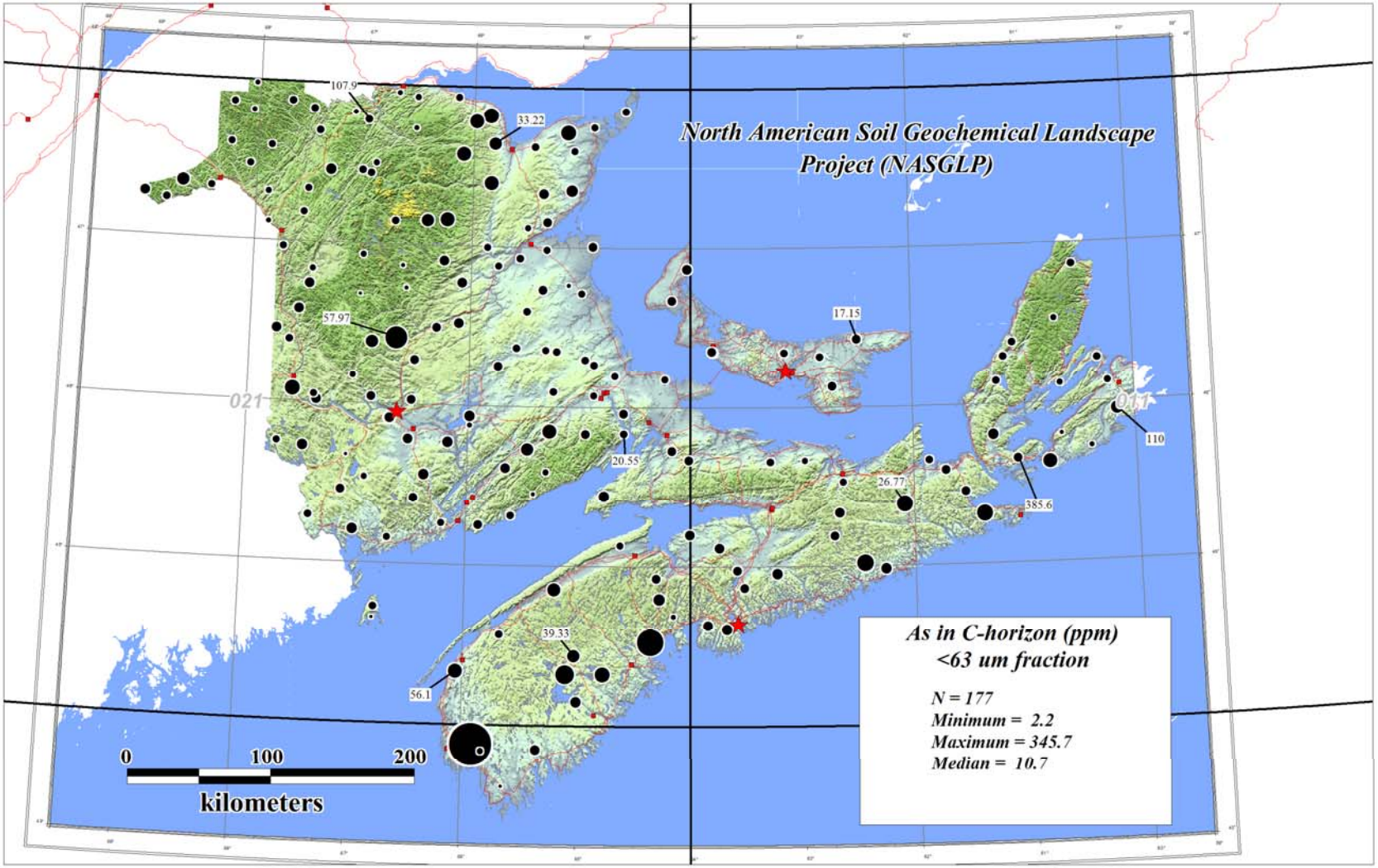
Source:
Surficial Materials of Canada
Geological Survey of Canada,
Map 1880A (1:500,000 scale).

Ice Movement and Gradient

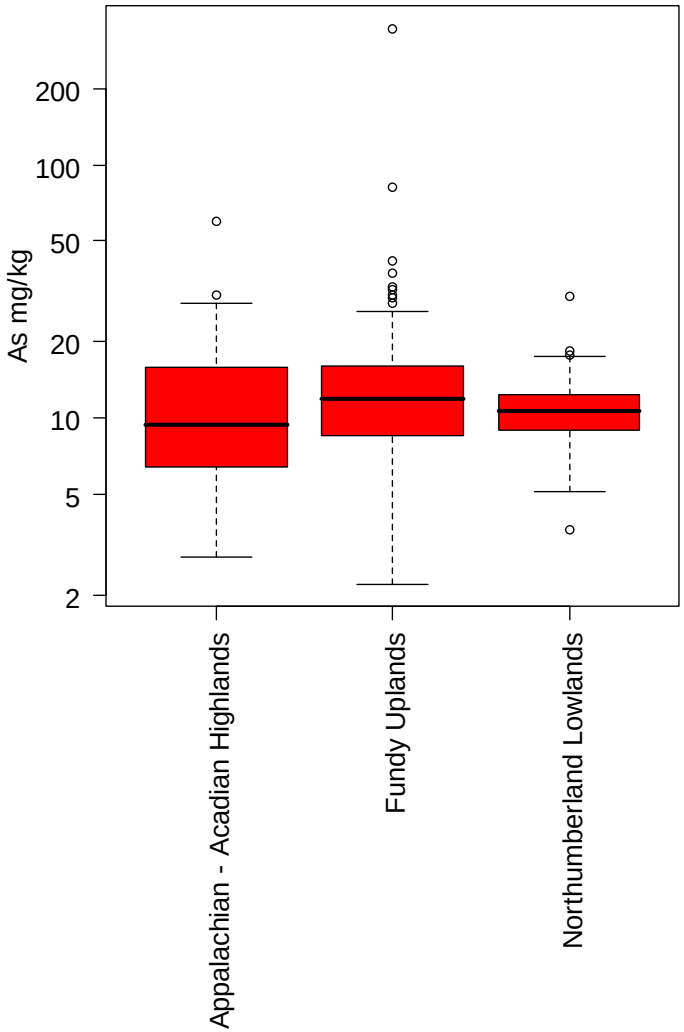


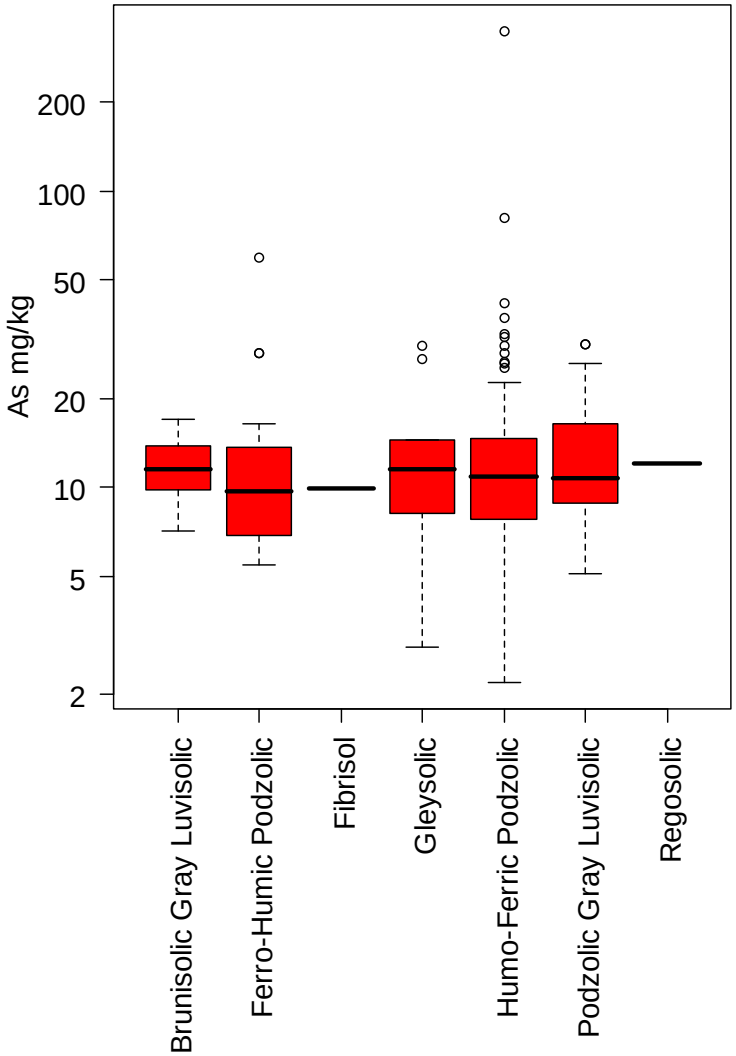
Source: Rampton, V.N., Gauthier, R.C., Thibault, J. and Seaman, A.A., 1984. Quaternary geology of New Brunswick; Geological Survey of Canada, Memoir 416, 77p.

As - C-horizon Map

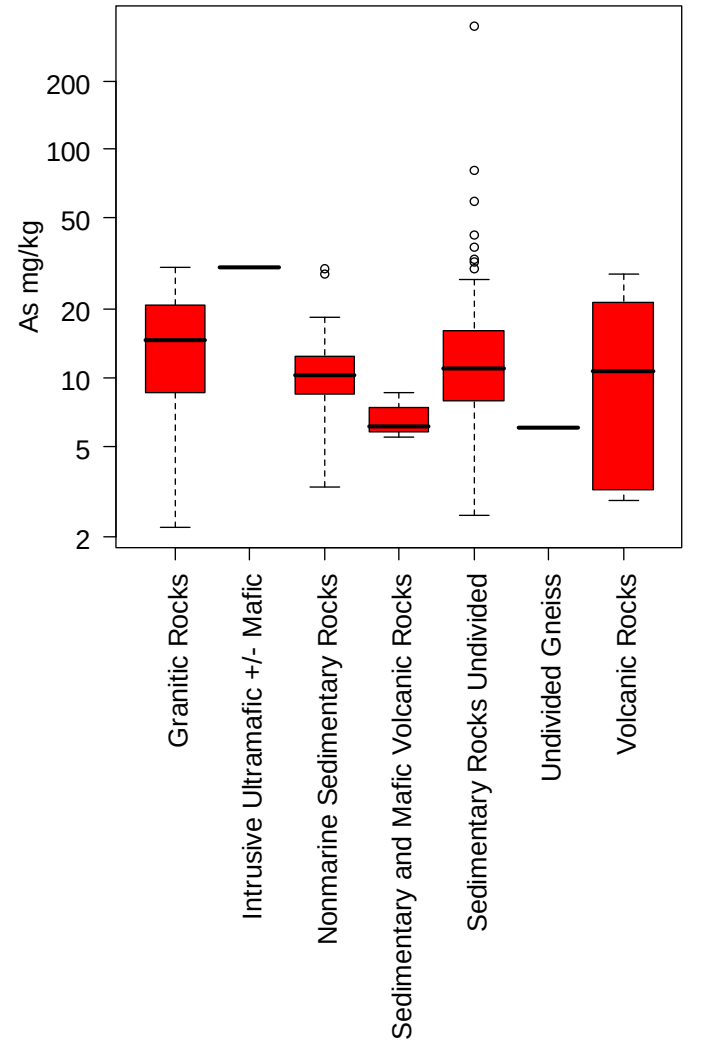


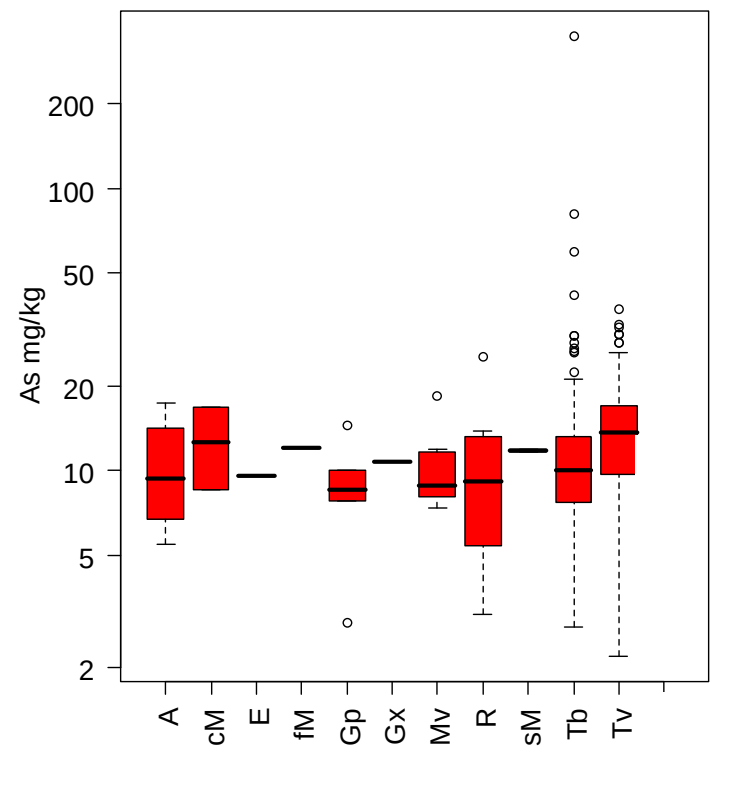
As – Ecozones and Soil Types





As – Lithologic and Surficial Units





Abbreviations

Surficial deposit types:

E – eolian

A – alluvial

cM, sM, fM – coarse, silty, fine marine

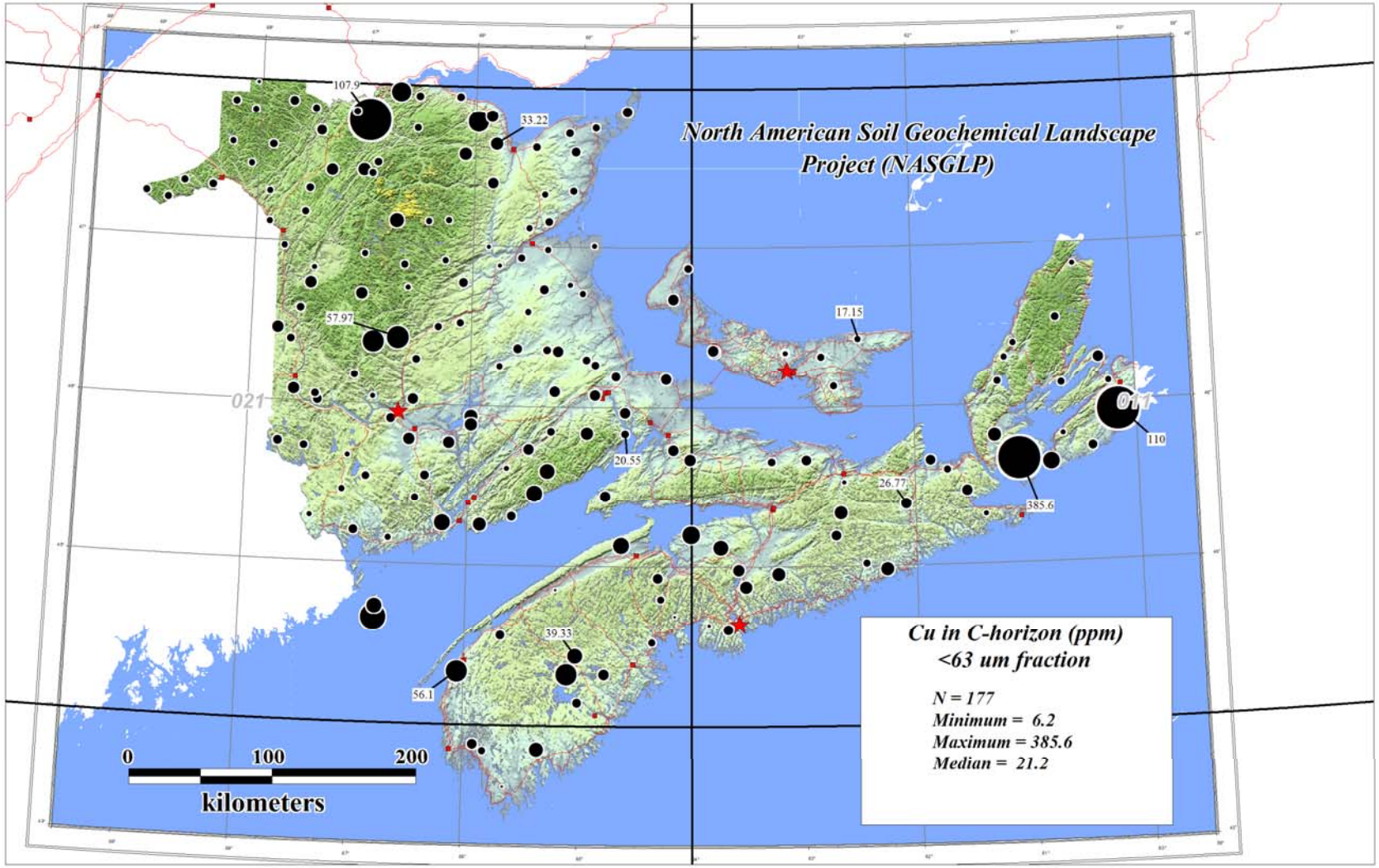
Gp, Gx – glaciofluvial plain, complex

Mv – marine veneer

Tb,Tv – till blanket, veneer

R - rock

Cu - C-horizon Map



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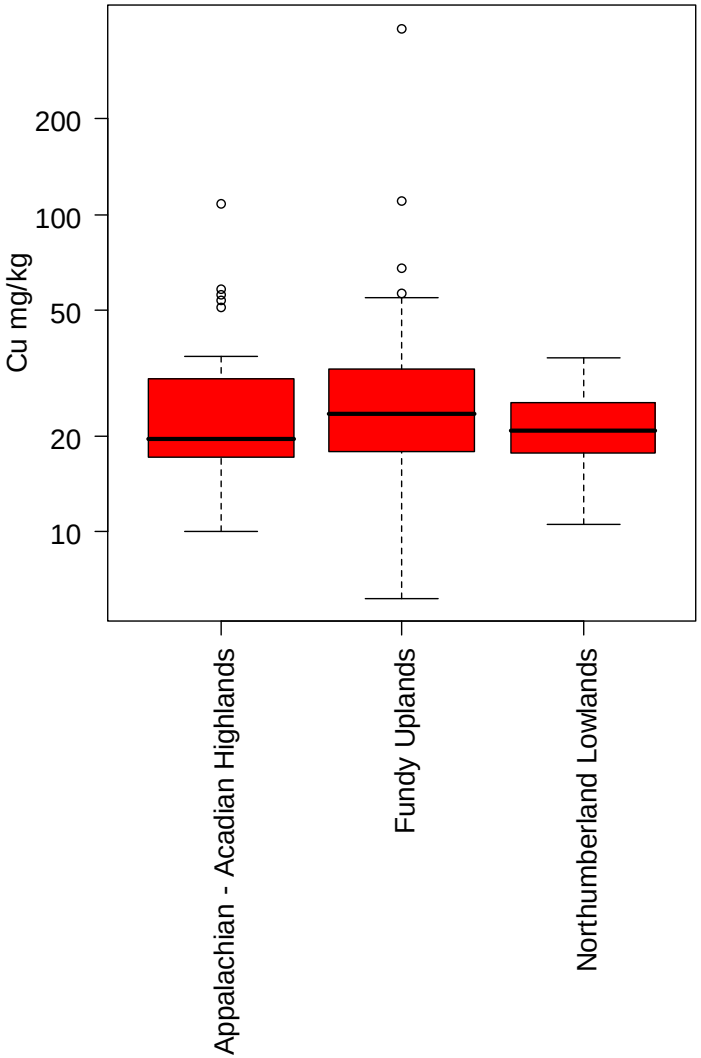

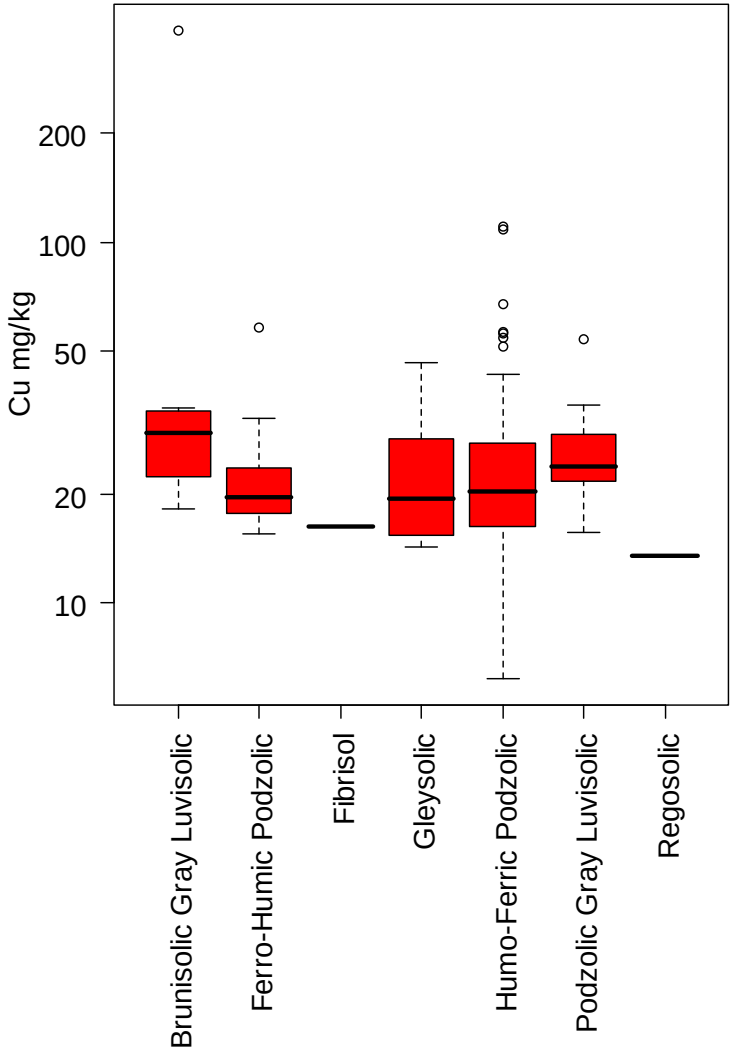

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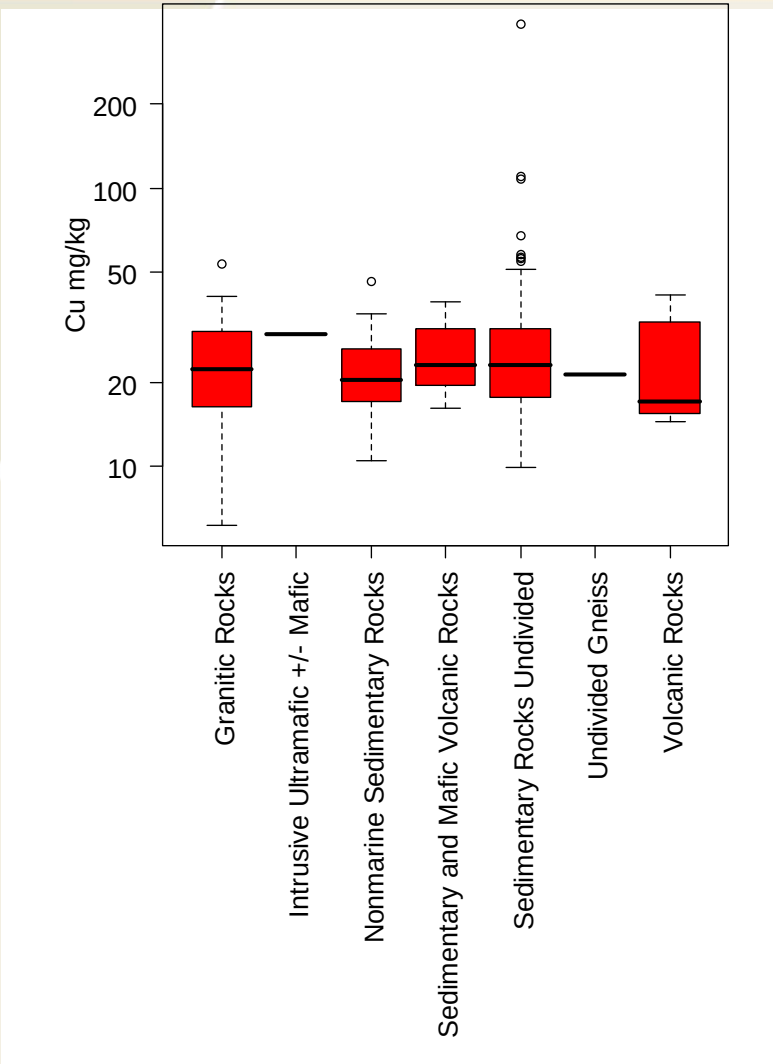
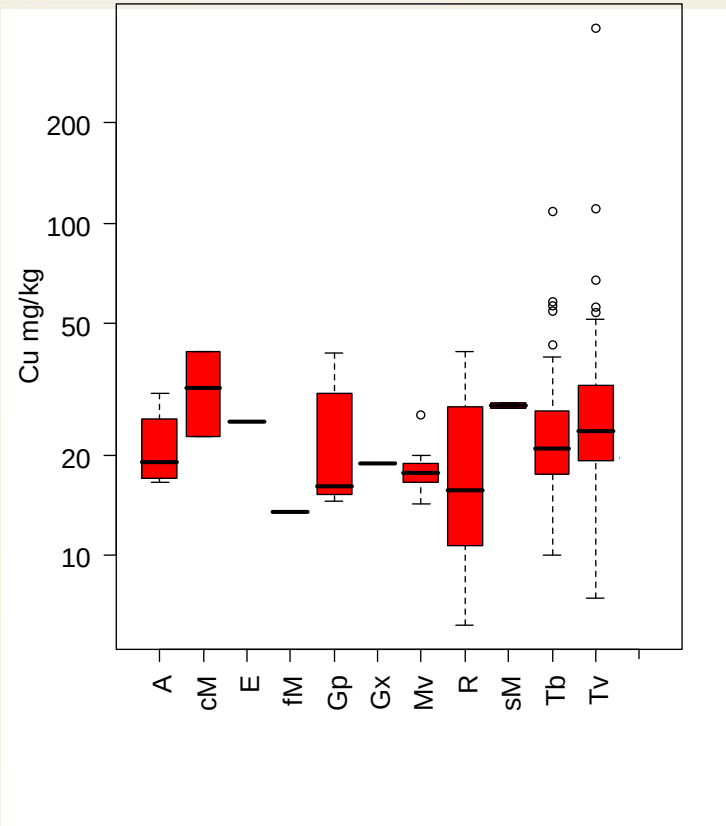
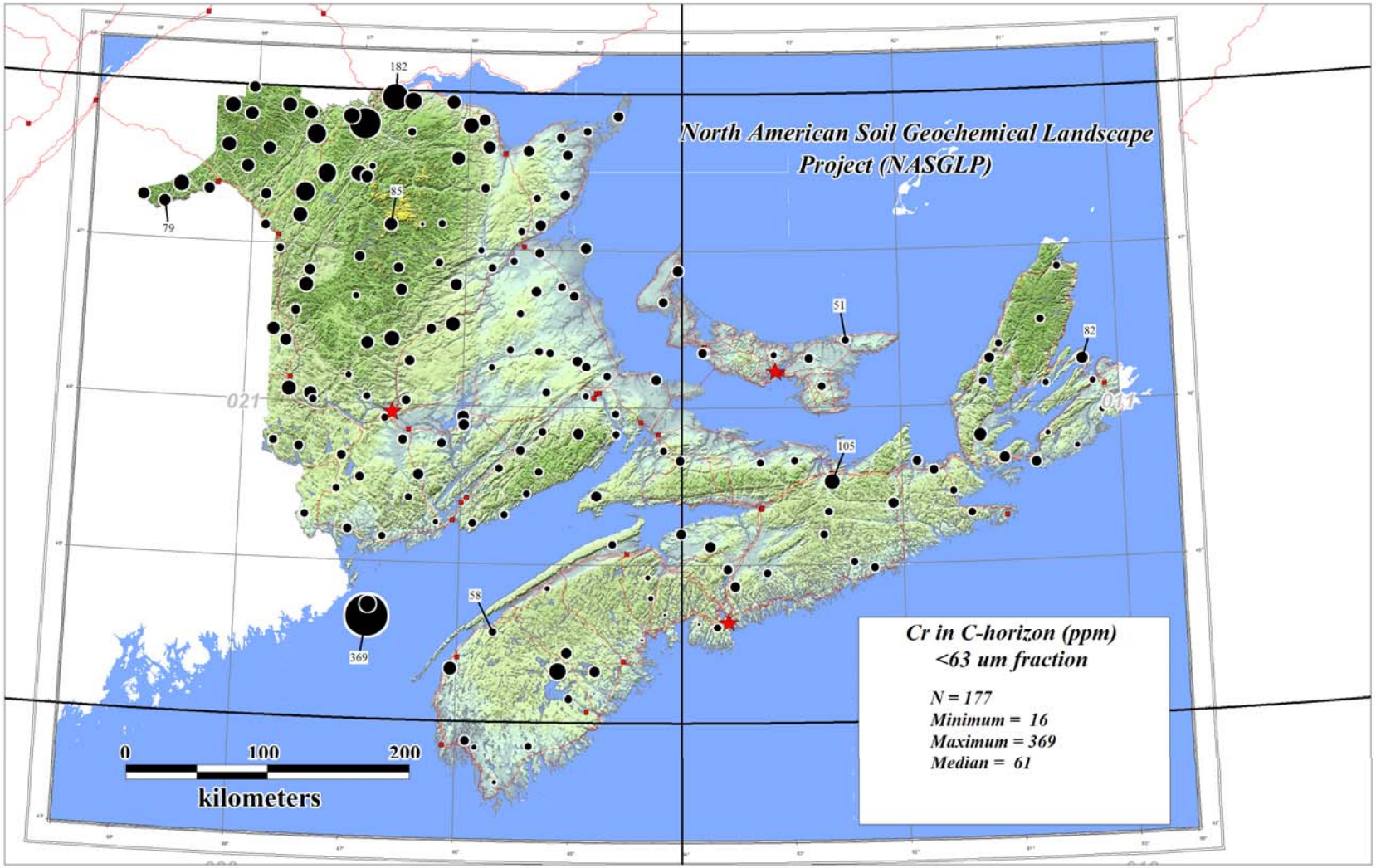




Cr - C-horizon Map



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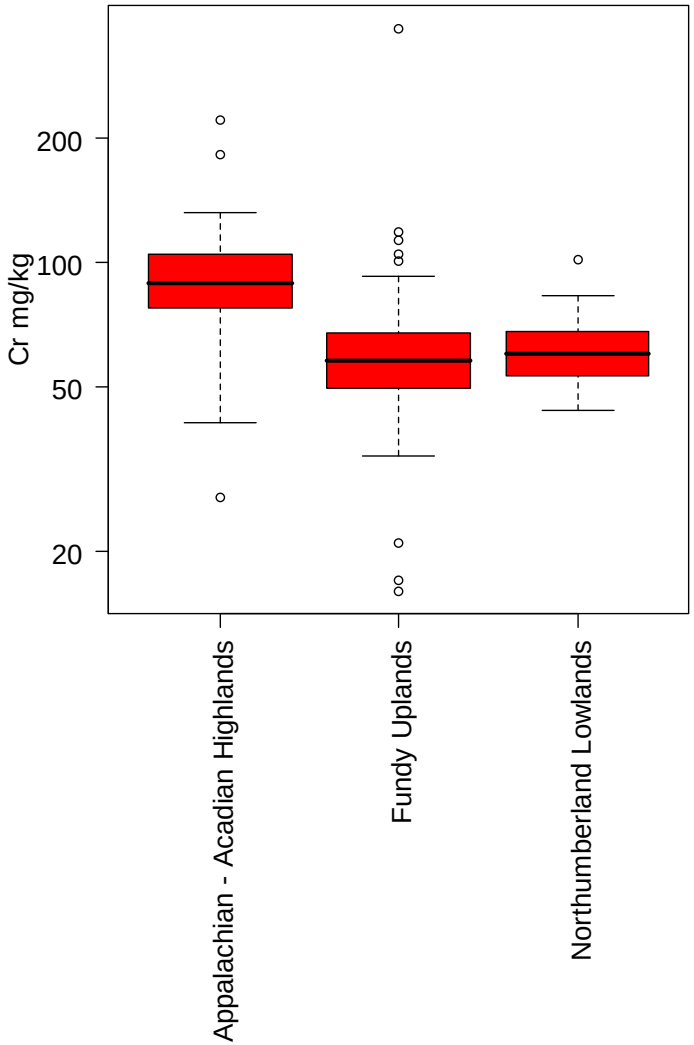

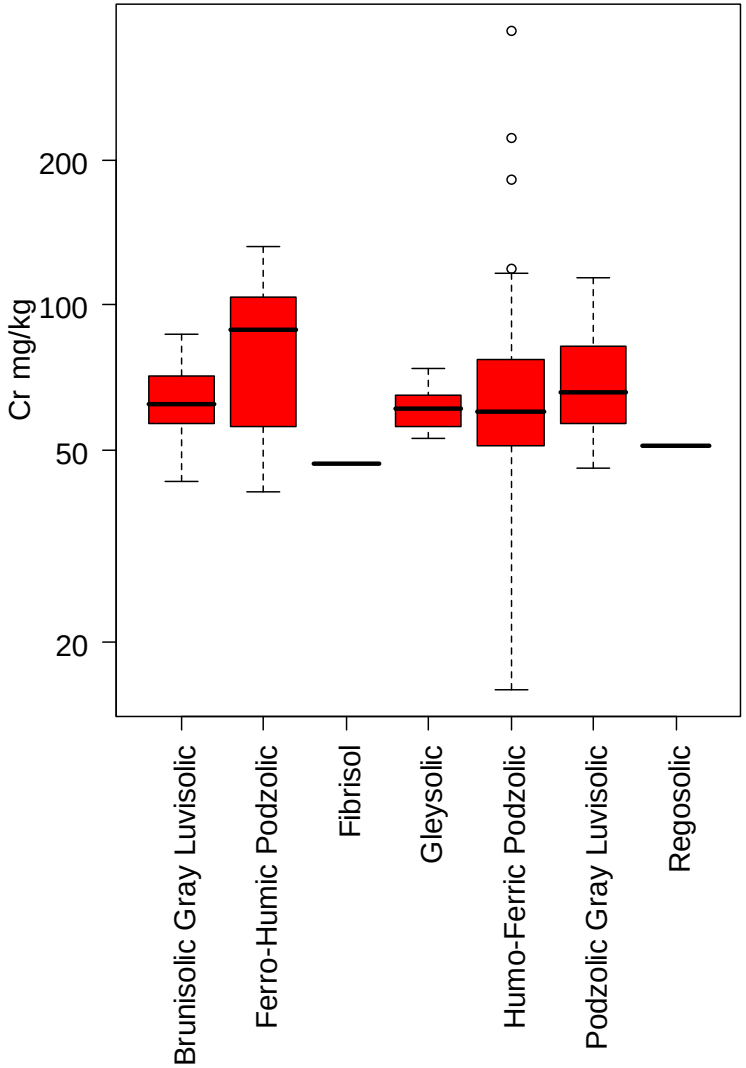

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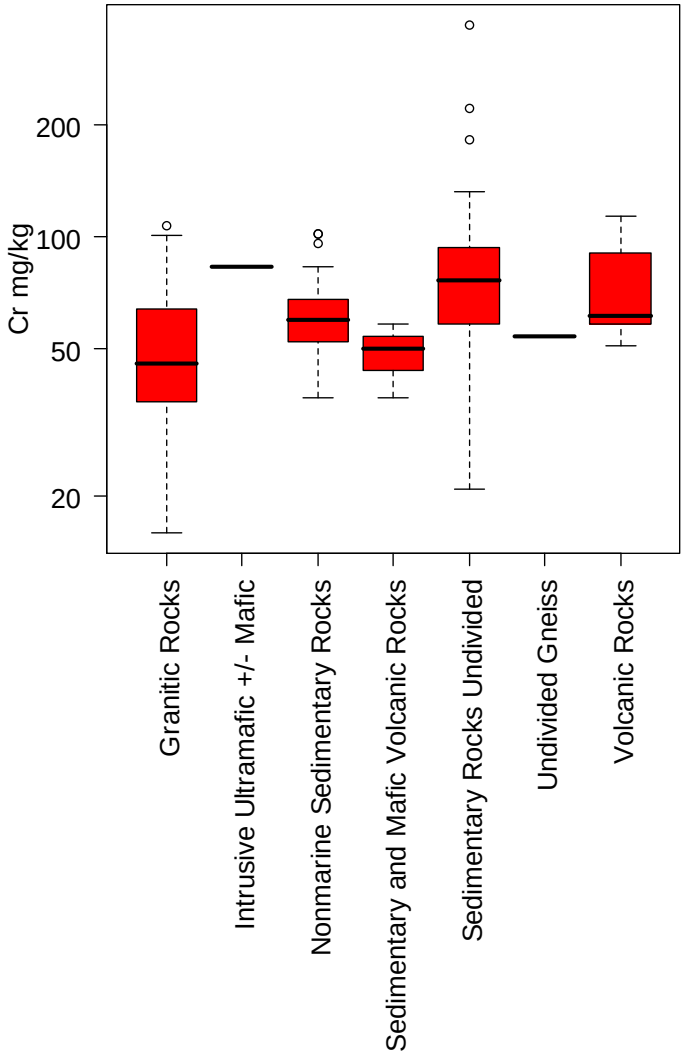
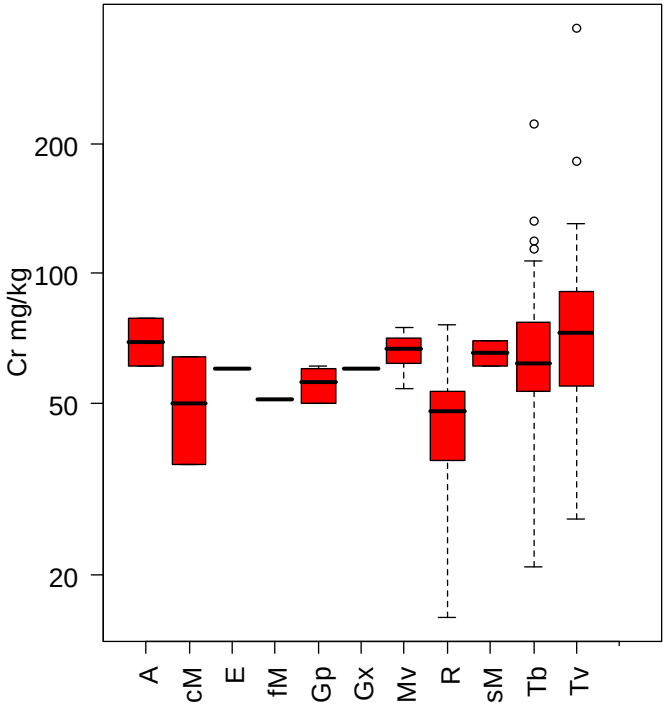
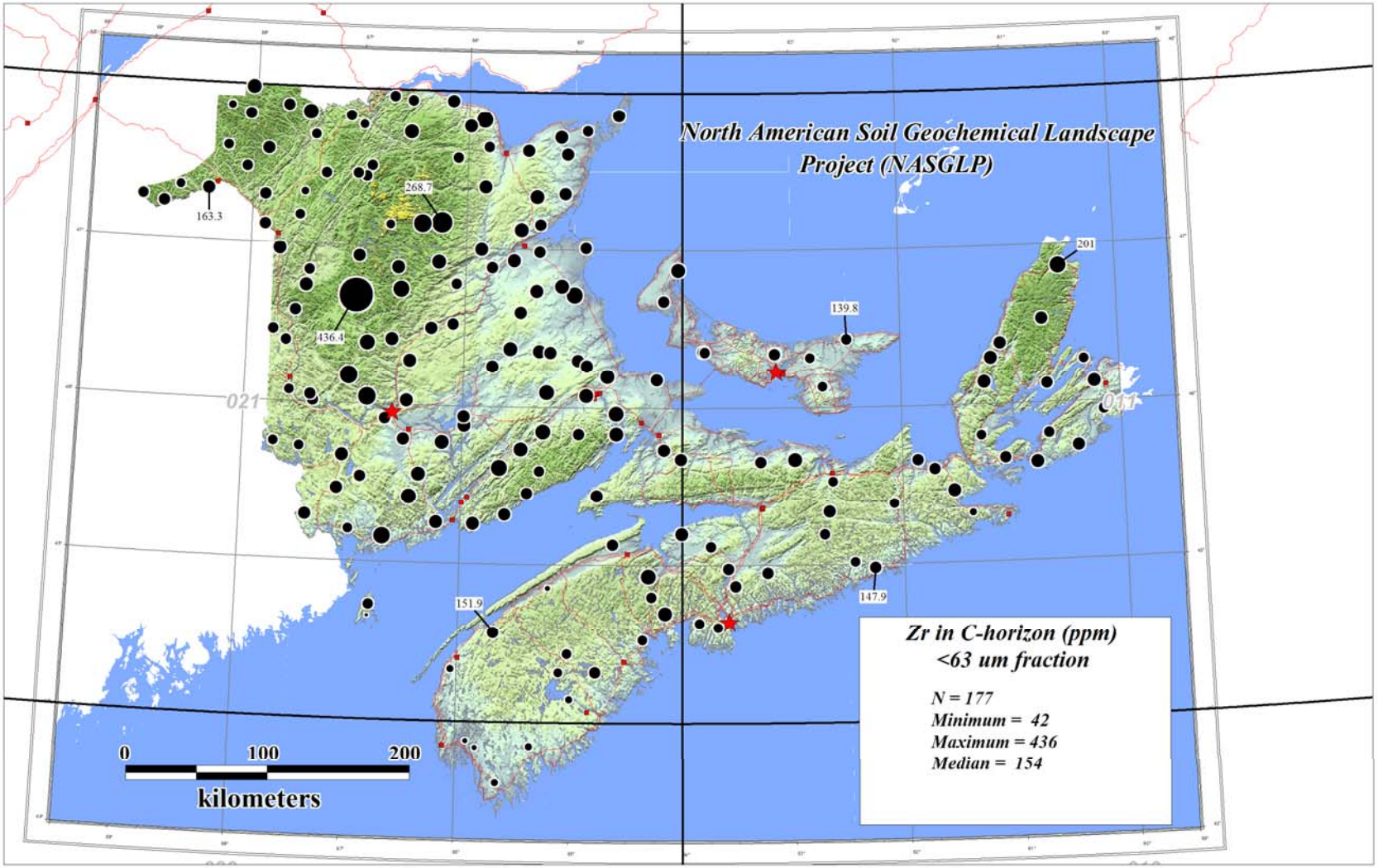
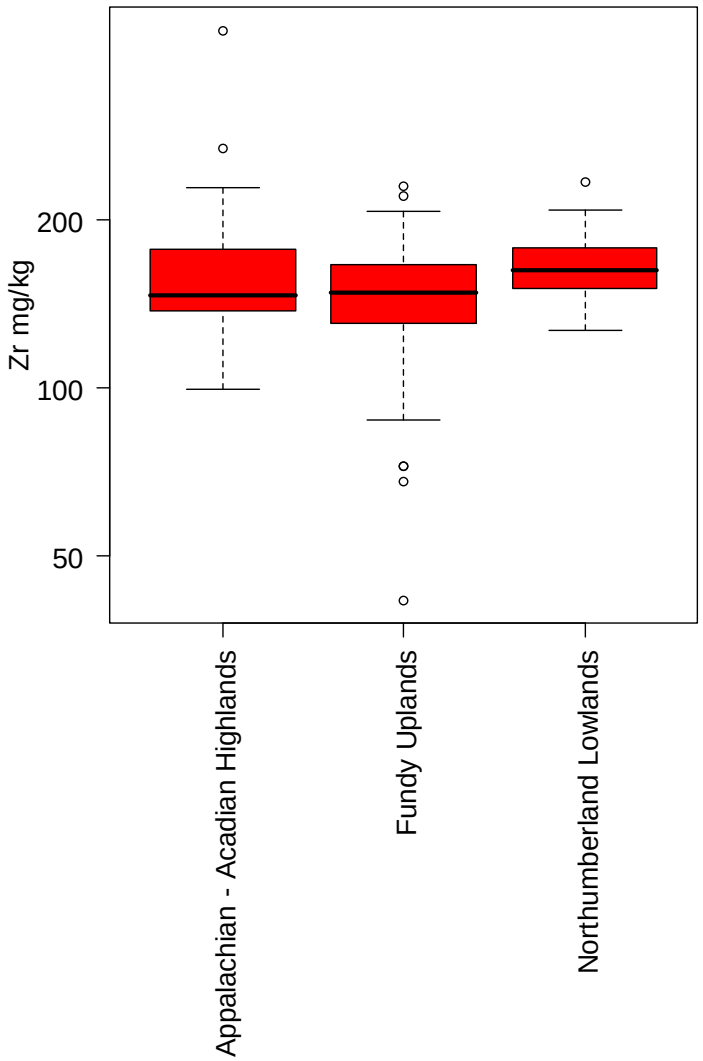


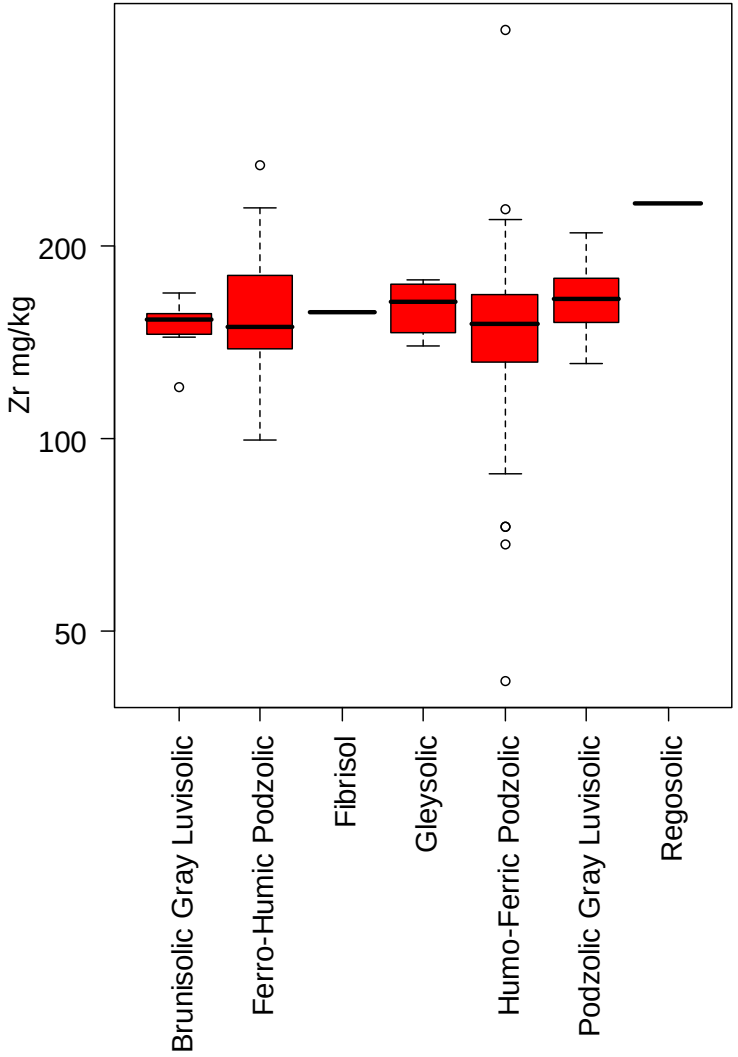


Zr - C-horizon Map



Zr – Ecozones and Soil Types





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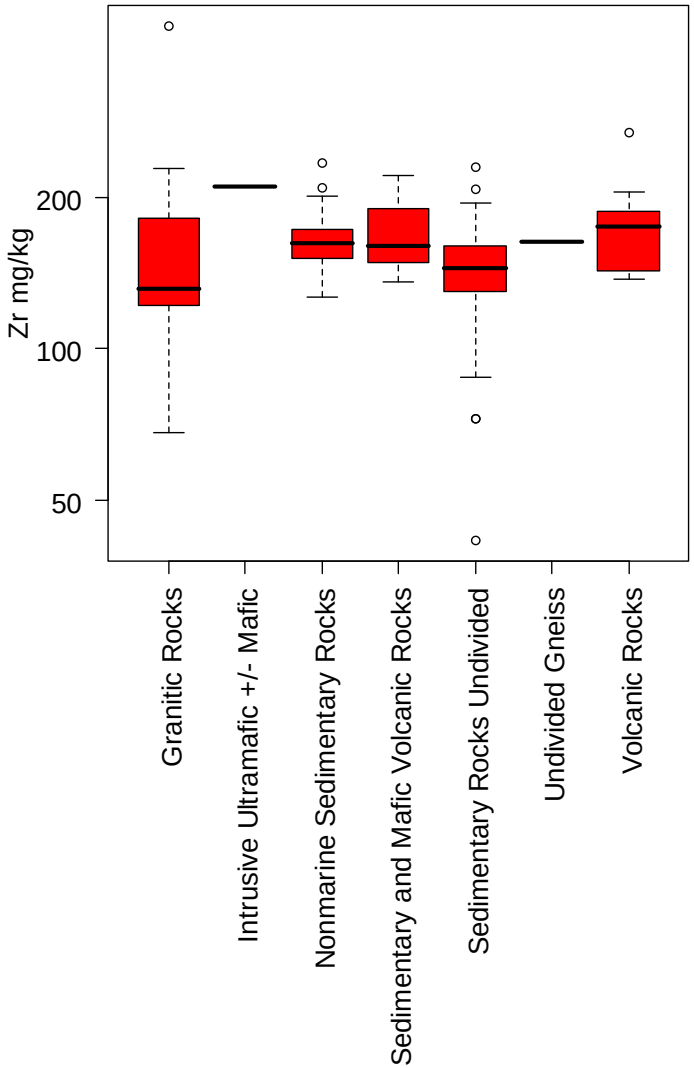
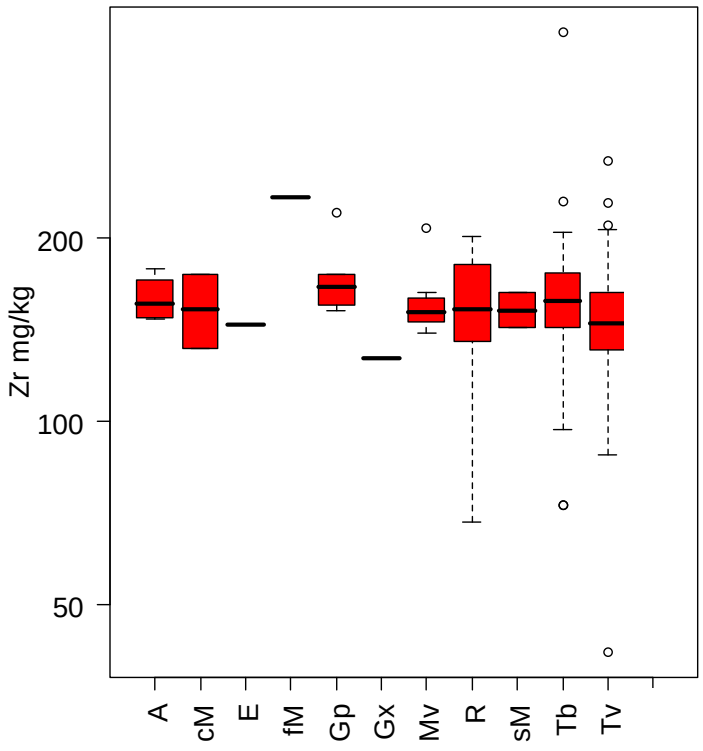
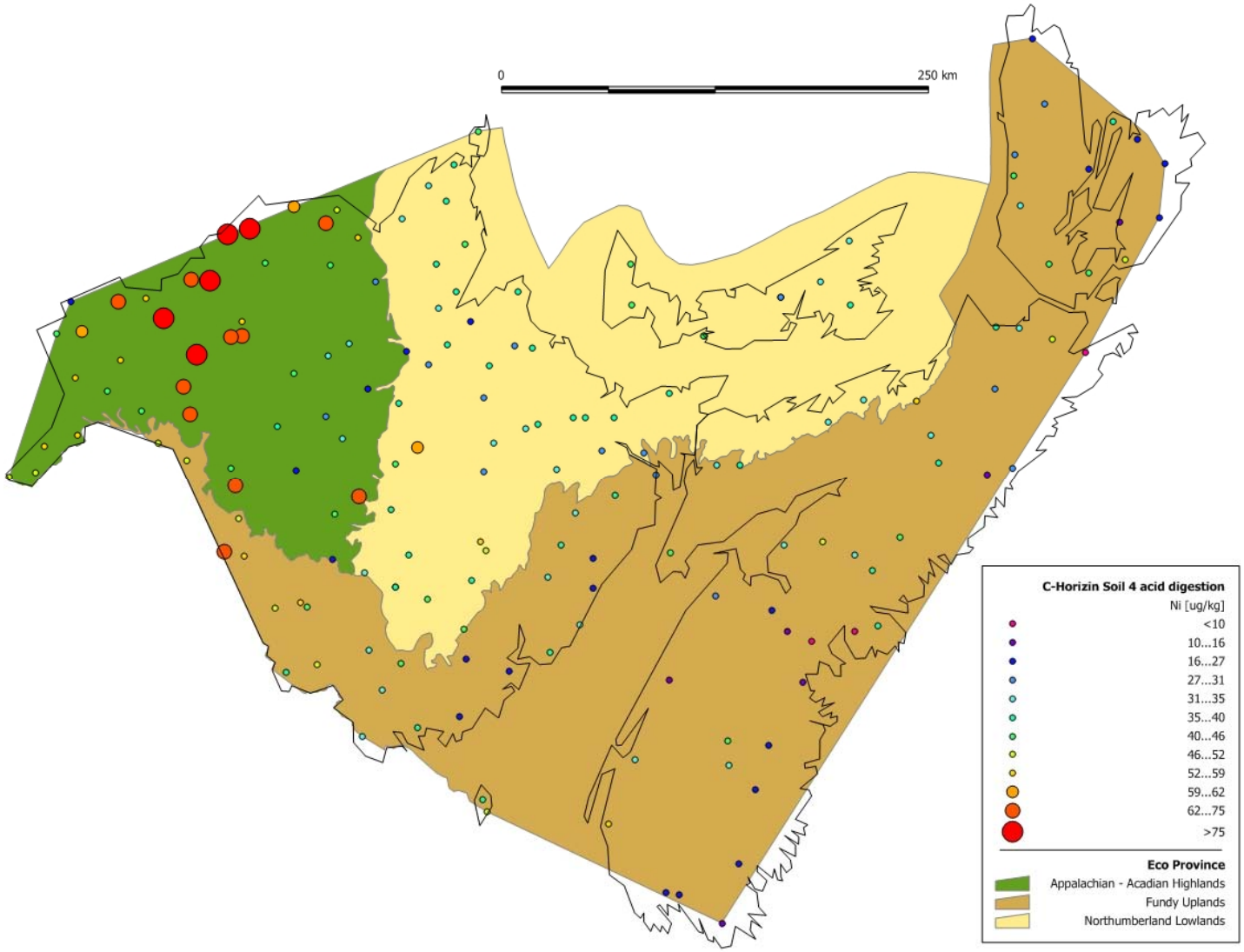




Ni - C-Horizon Map and Ecozones



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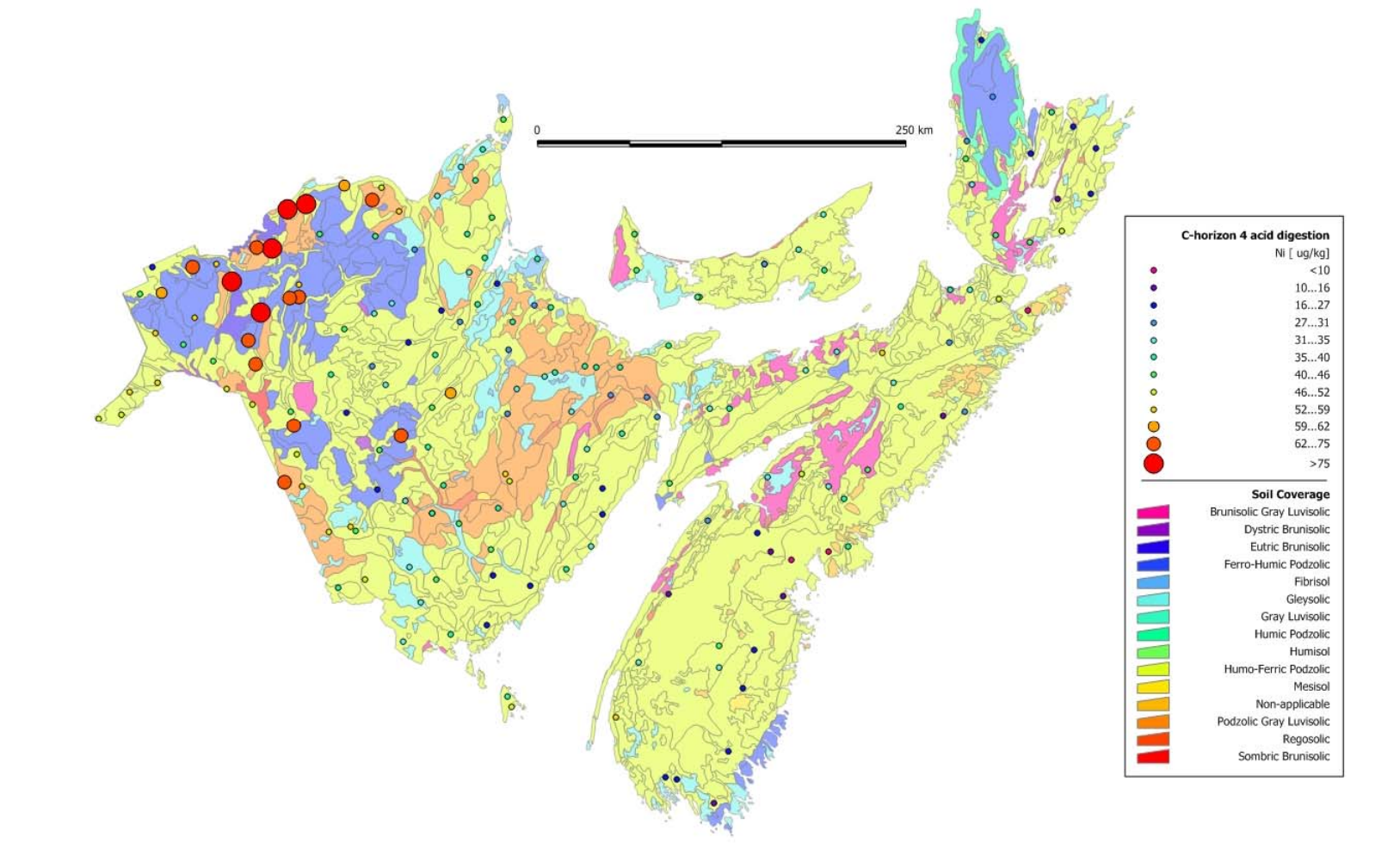

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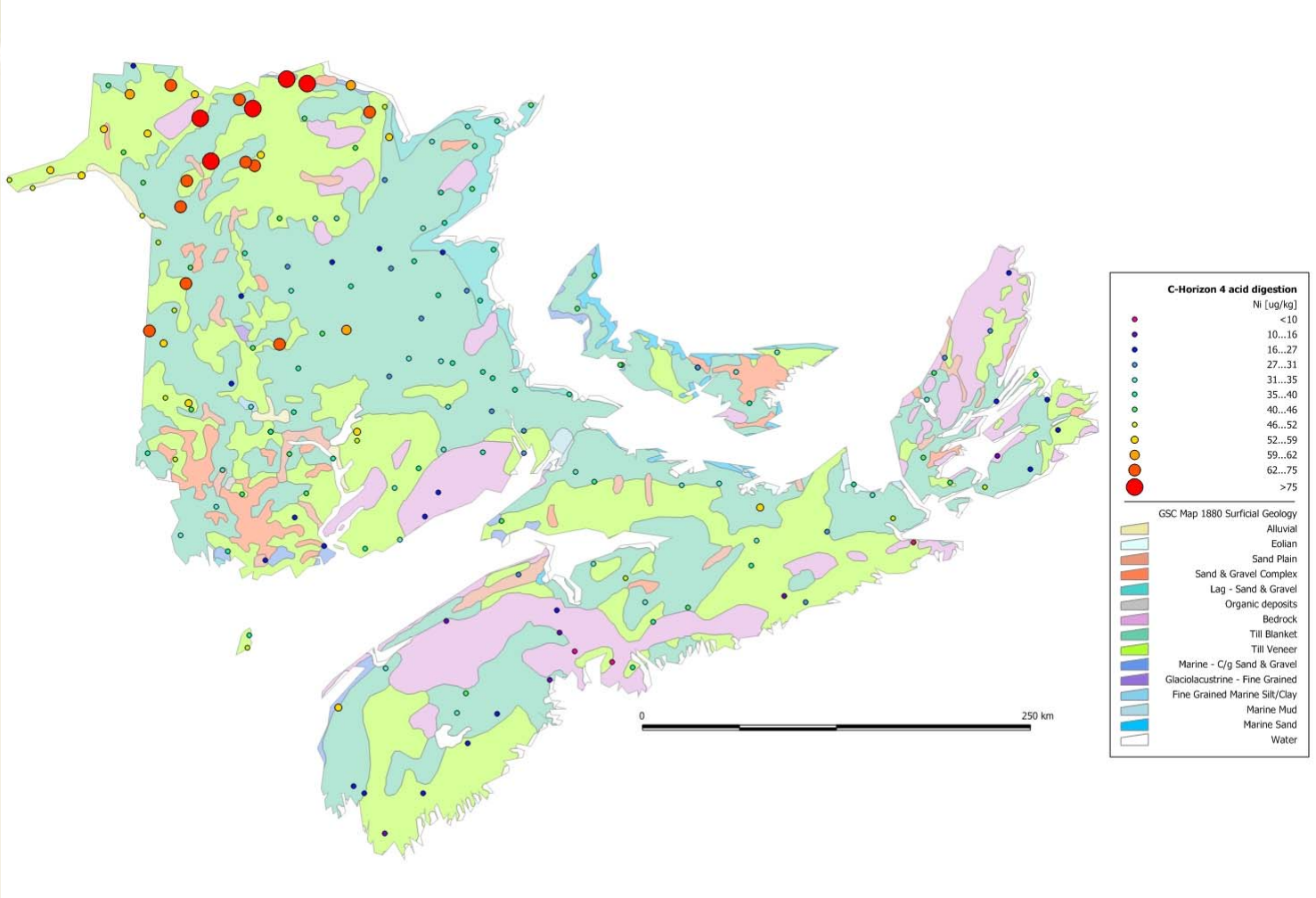
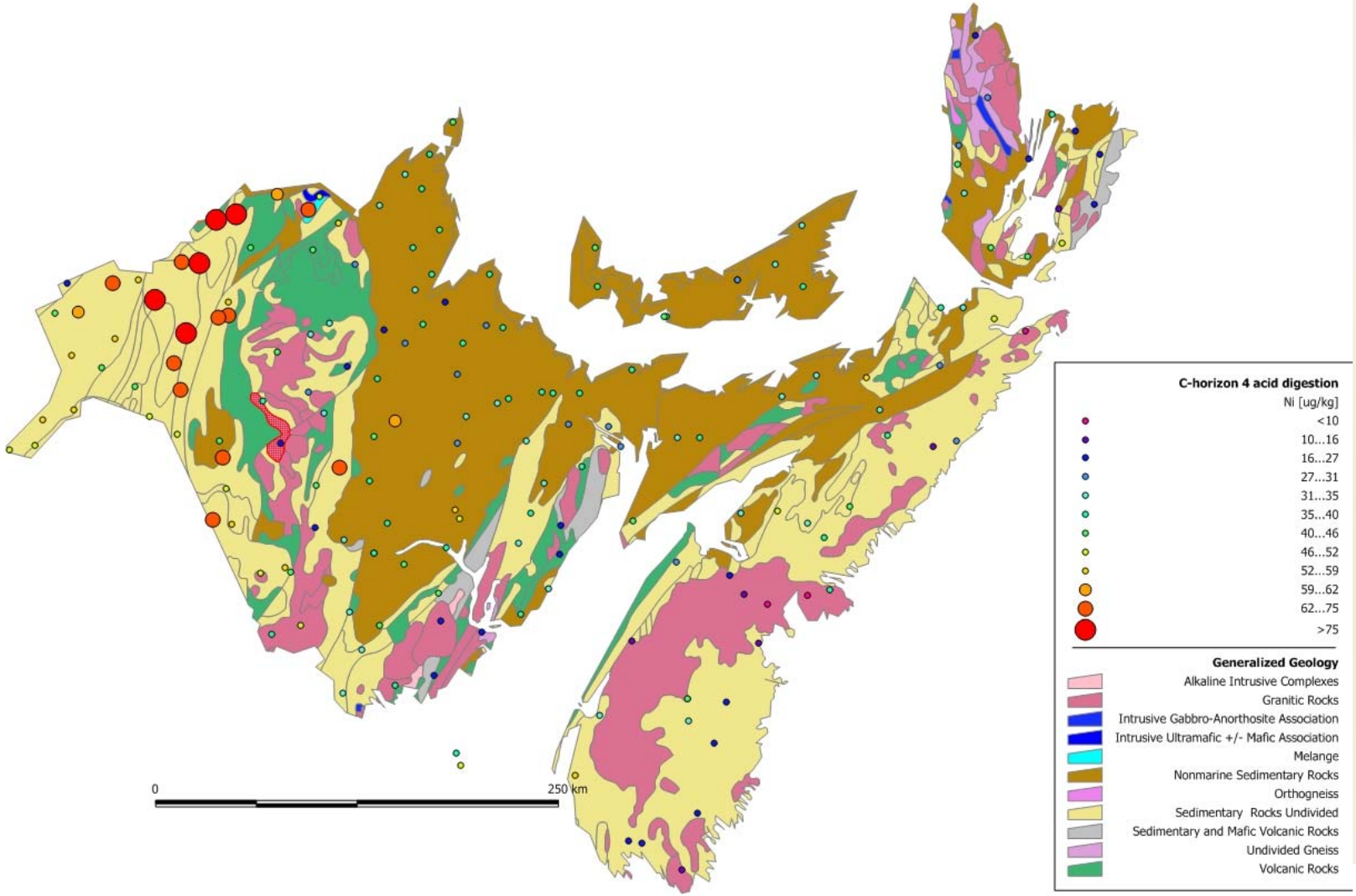


Ni - C-horizon Map and Lithologic Units



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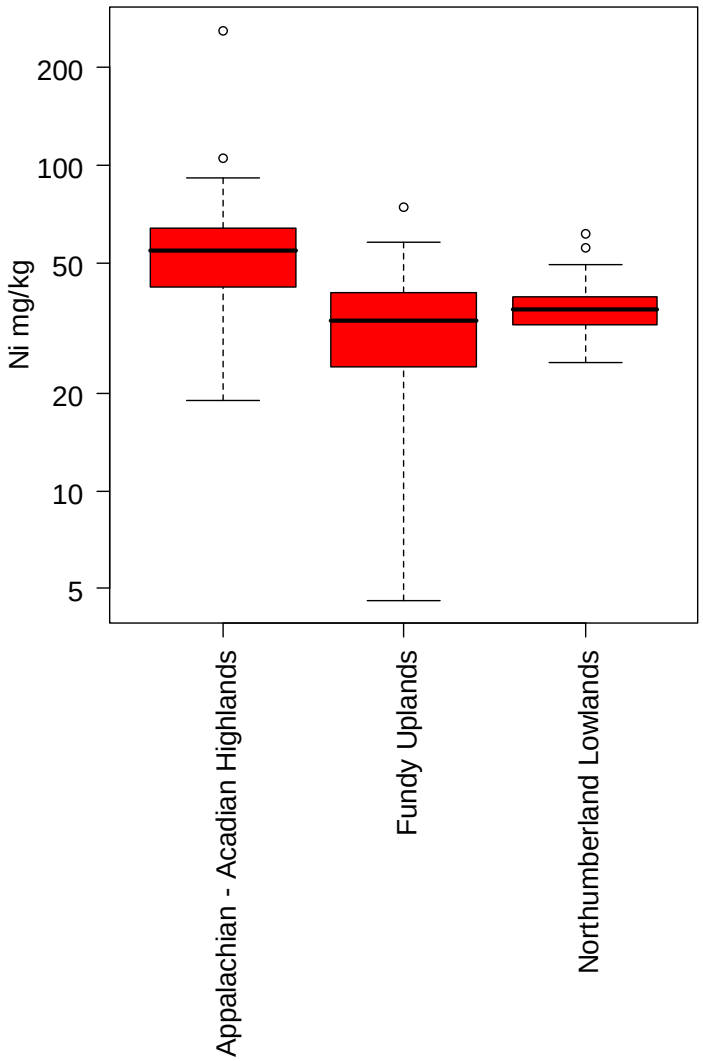

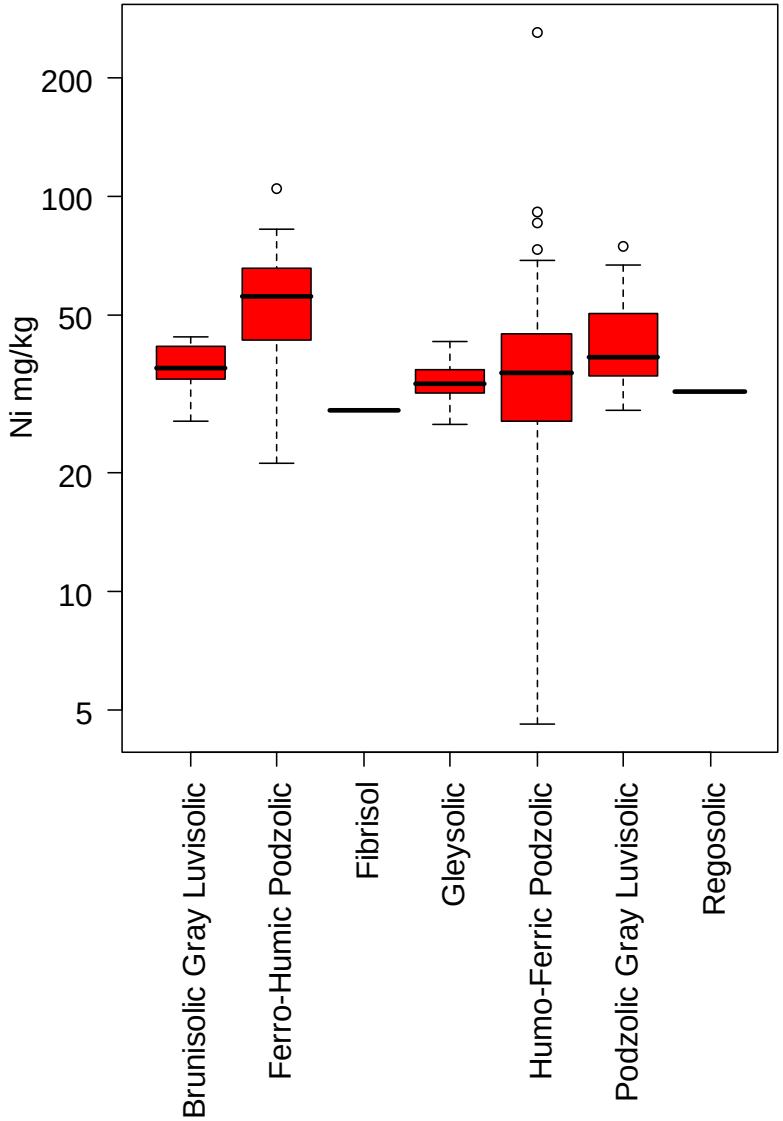
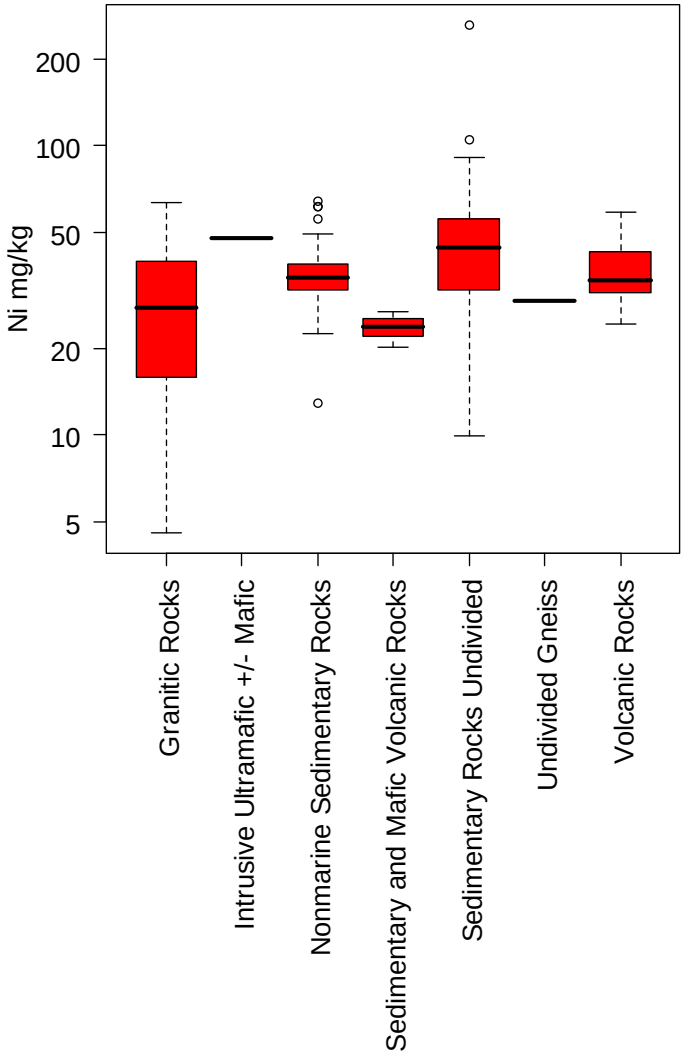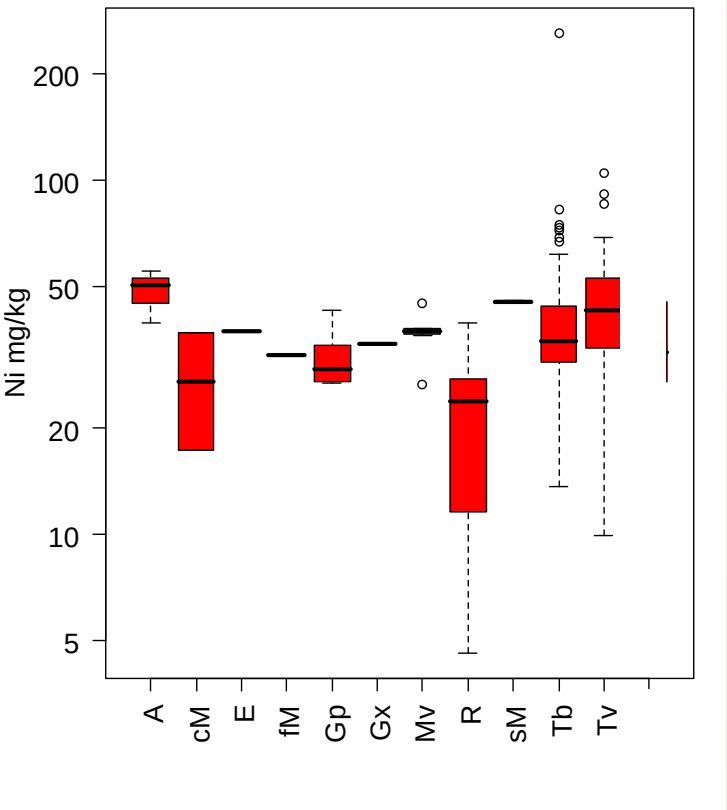
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