APR 08, 2020

🌐 Rare Trees Survey outside Plots (Megantic Only)

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Vellend Cabo

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.baadiaa6

External link:
<http://www.caboscience.org>

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<https://dx.doi.org/10.17504/protocols.io.baadiaa6>

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Protocol status: In development
We are still developing and optimizing this protocol

Created: Dec 09, 2019

Last Modified: Apr 08, 2020

PROTOCOL integer ID:
30757

ABSTRACT

Here, we describe the standardized protocol used by the [Canadian Airborne Biodiversity Observatory](#) (CABO) to survey additional rare trees as needed to ensure that all tree species observed across the Parc national du Mont-Mégantic site are represented by at least 10 Dominant or Co-dominant individuals, in order to fulfill CABO-wide needs for the calibration of sensor data, as mentioned at step 1 of the [Canopy Trees Survey Protocol - Forests of Southern Québec Protocol](#).

ATTACHMENTS

[CABO_species_list_per_site_2019.xlsx](#)

MATERIALS

Equipment	
new equipment	NAME
CAT S41 fieldwork cellphone	BRAND
-	SKU
https://www.catphones.com/en-us/cat-s41-smartphone/	LINK

Equipment	
new equipment	NAME
Laser Geo	BRAND
-	SKU
http://www.haglofcg.com/index.php/en/products/instruments/height/554-laser-geo	LINK

Equipment	
new equipment	NAME
Trimble Catalyst GPS, NTRIP precision subscription	BRAND
-	SKU

Equipment	
DP II Caliper and L5 Laser Art no 15-103-1041 (from SYSTEM 2 DP Postex)	NAME
-	BRAND
-	SKU
http://www.haglofsweden.com/index.php/en/products/instruments/calipers/496-dp-postex	LINK

Tree Selection and Scouting

- 1 Identify the tree species represented by <10 Dominant or Co-dominant individuals across the set of plots at the given site.

Note

To do so, export the .csv file from *Fulcrum* → Vegetation Surveys: Large Trees → [filter: appropriate site]. Then, in Excel, filter the records by species and Crown class.

- 2 For these species, find individual trees ≥ 9 cm DBH outside the plots to bring the sample size up to at least 10. If possible, use the trees recorded at [step 8](#) of the [Canopy Trees Survey Protocol - Forests of Southern Québec Protocol](#). If not, create Plant records for the selected trees by following the directions from [step 8](#).

Tree Level Measurements

- 3 For these trees, record the required measurements.

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-	SKU
http://www.haglofsweden.com/index.php/en/products/instruments/calipers/496-dp-postex	LINK

- 3.1 If it was not already done, precisely georeference the tree location under Plants → Location by clicking Update location with GPS on your field cellphone connected to the Trimble GPS –coordinates will automatically be imported to the Latitude, Longitude, Horizontal Accuracy and Altitude fields.

Plants *(editing)*

44678725, 147, Larix laricina (Du Roi) K. Koch

Location

Latitude (degrees)

45.47425

Longitude (degrees)

-71.2006533

Horizontal Accuracy (m)

3

Altitude (m)

488.1

Vertical Accuracy (m)

Current GPS Information

Your GPS is not accessible. No Location Available

Update Location with GPS

Update Location with GPS

- 3.2 Record species identification, DBH, height, and crown dimensions in Plants → Plant Size → Size Measurements. Refer yourself to the [Canopy Trees Survey Protocol - Forests of Southern Québec Protocol](https://dx.doi.org/10.17504/protocols.io.baadiaa6) to know how to take these

measurements.

By clicking on the Items button, the following screen will show up.

Create one new item per measurement.

✕

Size Measurements *(editing)*

✓

November 25, 2019, DBH

⌕

Metadata

Duration

20 seconds (First Creation)

Measurement Type

DBH

Height

Crown diameter

LAI

DBH (cm)

32

Measured By

Alizée Girard

Anna Crofts

Antoine Mathieu

Alexandra Massey

Charlotte Taillefer

Clément Robert-Bigras

Deep Inamdar

Etienne Laliberté

Florence Blanchard

Guillaume Tougas

Isabelle Gareau

Kathryn Elmer

Madeleine Trickey-Massé

Margaret Kalacksa

Maria Juliana Pardo Losada

Mark Vellend

Myriam Cloutier

Oliver Lucanus

Pablo Arroyo

Paul Hacker

Rime Néron

Rosalie Beauchamp-Rioux

Sabine St-Jean

Sabrina Demers-Ihibeault

Xavier Guilbeault-Mayers

Other

Date Measured

25 / 11 / 2019

Save your size measurements.

✕

Plants *(editing)*

+

✓

44678725, 147, Larix laricina (Du Roi) K. Koch / Size Measurements (1 Item)

✕

November 25, 2019, DBH

View

4 Save your record.

protocols.io |
<https://dx.doi.org/10.17504/protocols.io.baadiaa6>

6

Equipment

new equipment

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BRAND

-

SKU

<https://www.catphones.com/en-us/cat-s41-smartphone/>

LINK

Plants *(editing)*

44678725, 147, Larix laricina (Du Roi) K. Koch