



Finding Geospatial Data

A Short Introduction

Martin Chandler

Data Services Librarian

martin.chandler@mcgill.ca

Agenda

- About Geospatial Data
- Subject Guides
- Open Data
- GeoIndex
- Mapping Thoughts

Geospatial Data

- Geospatial data is any data that includes a place – it could be an address, a postal code, a city, X/Y coordinates, latitude and longitude, or other geographic location within the data
- This includes:
 - Point, line, and polygon data (vector data)
 - Static maps or images (raster data)
 - Tabular data (eg spreadsheets)
- It can include static objects, such as a building; dynamic phenomena, such as travel from A to B or an earthquake; or temporal, such as the change of landscape over time

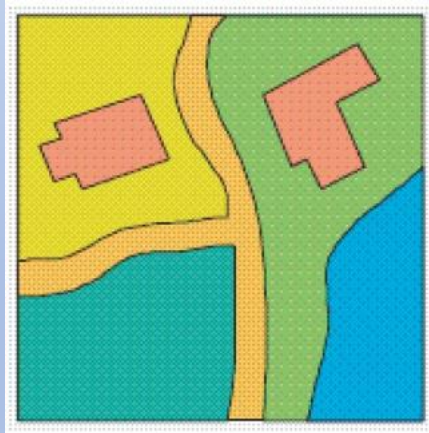
Geospatial Data

- Most often, geospatial data is used in GIS software
- GIS: Geographic Information System
- GIS is “...a framework for gathering, managing, and analyzing data.”
(<https://www.esri.com/en-us/what-is-gis/overview>)
- Making use of a geographic component within data to analyze and visualize the information
- Also an excellent method of analysis and visualization of data

Examples

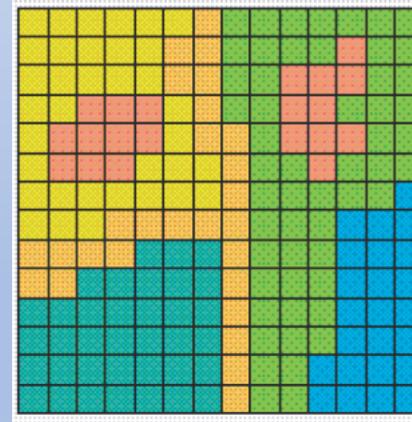
Vector data

points, lines, & polygons on
XY coordinates



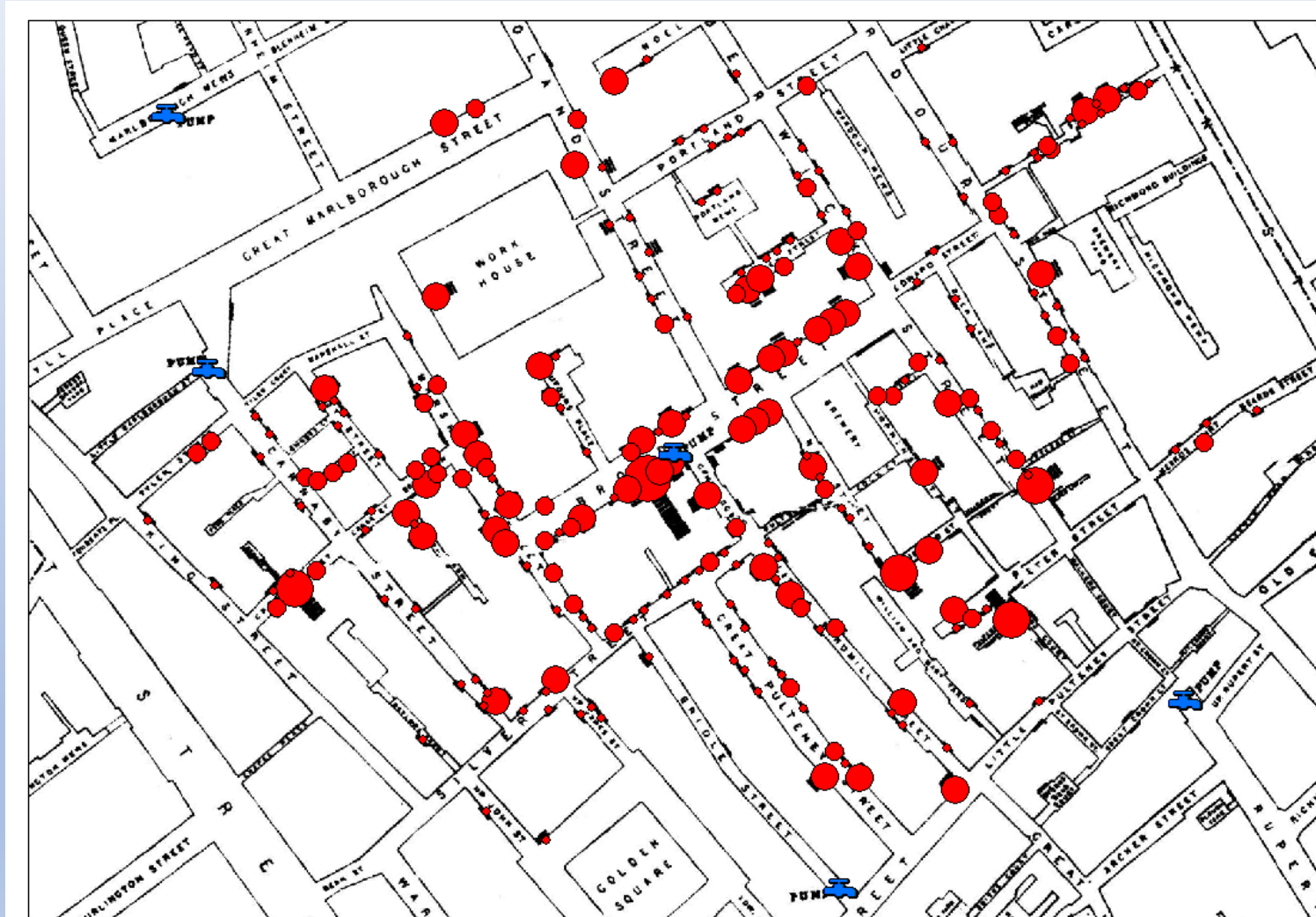
Raster Data

pixels/grid cells, usually
square



Example: Tabular data

FED_NUM	NID	FEDNUM	ENNAME	FRNAME	PROV	DECPOPCNT	USESDERPY	USESBOUFFON	WTF
24001	{AB0EAE36-C1EC-49F9-	24001	Abitibi--Baie-James--Nur	Abitibi--Baie-James--Nunav	QC	85475	138	630	60
24002	{6C60176A-0BCC-4B37-	24002	Abitibi--TÃ©miscamingu	Abitibi--TÃ©miscamingue	QC	102794	156	872	540
24003	{66747292-7B75-4BC1-	24003	Ahuntsic-Cartierville	Ahuntsic-Cartierville	QC	110473	881	73	77
24004	{94538187-0A87-4207-	24004	Alfred-Pellan	Alfred-Pellan	QC	98045	846	470	133
24005	{D97AF803-B05B-4ED4-	24005	Argenteuil--La Petite-Nat	Argenteuil--La Petite-Natio	QC	94208	167	939	46
24006	{7E5624C1-5FAD-465E-	24006	Avignon--La Mitis--Matar	Avignon--La Mitis--Matane-	QC	74547	206	745	0
24007	{F4A433CE-8E4D-450A-	24007	Beauce	Beauce	QC	106337	281	978	114
24008	{754BB4E4-8F8E-4E89-	24008	Beauport--Limoilou	Beauport--Limoilou	QC	92944	869	141	131
24009	{5E243D4C-2EE8-4E8C-	24009	BÃ©cancour--Nicolet--Sa	BÃ©cancour--Nicolet--Saur	QC	93779	150	623	807
24010	{D1F455BD-FFA2-4060-	24010	Bellechasse--Les Etchemi	Bellechasse--Les Etchemins	QC	112385	415	598	143
24011	{5737F403-FDED-41DD-	24011	Beloeil--Chambly	Beloeil--Chambly	QC	109955	649	516	100
24012	{9FEF06FB-4B7F-4B89-	24012	Berthier--MaskinongÃ©	Berthier--MaskinongÃ©	QC	98590	16	704	126
24013	{BF246EF7-4729-45BD-	24013	ThÃ©rÃ©se-De Blainville	ThÃ©rÃ©se-De Blainville	QC	98499	861	61	44
24014	{1711BCE7-E928-41B4-	24014	Pierre-Boucher--Les Patri	Pierre-Boucher--Les Patriot	QC	95326	473	355	73
24015	{644A53FD-09EC-43E3-	24015	Bourassa	Bourassa	QC	100286	649	347	104
24016	{19AECA7D-7860-4DE3-	24016	Brome--Missisquoi	Brome--Missisquoi	QC	98616	37	823	507
24017	{0C426B17-CDCD-401A-	24017	Brossard--Saint-Lambert	Brossard--Saint-Lambert	QC	100828	727	504	3
24018	{0A31B4B1-7972-4A54-	24018	Rimouski-Neigette--TÃ©	Rimouski-Neigette--TÃ©m	QC	84809	233	638	142
24019	{4EA9158D-8269-42E5-	24019	Charlesbourg--Haute-Sair	Charlesbourg--Haute-Saint-	QC	103331	646	80	68
24020	{57ABE396-D834-4AC5-	24020	Beauport--CÃ¢te-de-Beau	Beauport--CÃ¢te-de-Beaup	QC	92496	460	648	41
24021	{30BC4AFF-9804-4219-	24021	ChÃ¢teauquay--Lacolle	ChÃ¢teauquay--Lacolle	QC	92169	457	564	113
24022	{400EF08D-8993-4CBC-	24022	Chicoutimi--Le Fjord	Chicoutimi--Le Fjord	QC	81501	201	722	41
24023	{05F8541F-CD56-4523-	24023	Compton--Stanstead	Compton--Stanstead	QC	101946	30	872	111
24024	{091A4423-615E-4AFB-	24024	Dorval--Lachine--LaSalle	Dorval--Lachine--LaSalle	QC	106886	632	66	135
24025	{042D5699-FD0B-4524-	24025	Drummond	Drummond	QC	98681	307	634	933
24026	{CF02F254-5D4A-43BF-	24026	GaspÃ©sie--Les Ãzles-de	GaspÃ©sie--Les Ãzles-de-l	QC	78833	480	549	194



- An updated version of one of the first uses of GIS (John Snow's Cholera map, 1854, updated with current software)

Source: http://blog.rtwilson.com/wp-content/uploads/2012/01/SnowMap_Points.png

SUBJECT GUIDES!

- <https://www.mcgill.ca/library/find/maps>
- Of particular note, the Geospatial Data Request Form:
<https://www.mcgill.ca/library/find/maps/datarequest>

What is Open Data?

- In short:
- It is “Accessible, understandable, and open to reuse.” (Wessels et al, 2014)
- Can be divided into
 1. public data or information from the public sector
 2. data from research institutions, especially publicly funded
 3. private sector data

Where to find Open Data

- Are you looking for governmental data, already-produced research data, or miscellaneous data?
 - Each has different places/modes for searching
- What is the geographic region you're looking at (if any)?
 - Geography will determine where to search, especially for government data
- What is the group you're researching?
 - Partly will determine whether this will exist as open data or not – data, especially about people, is often protected

Where to find Open Data

- What time period are you researching?
 - The older the data, the less available it will be (eg data pre-1950 will be more difficult to find, unless it's a heavily-researched subject)
- Who else might be asking your question?
 - Depending on the people researching, they may be more or less committed to open data, and/or knowledgeable about it

Where to find: Government Open Data

- <http://bartletr.github.io/opendatawebsites/>
- <https://library.carleton.ca/find/gis/geospatial-data/open-data-repositories>
- <https://www.data.gov/>
- <https://data.gov.uk/>
- <https://data.europa.eu/euodp/en/data/>
- <https://dataportal.opendataforafrica.org/>
- You can search for “[Place X] Open Data”
- Remember counties/regions (eg. [Niagara Open Data](#))!

Where to find: Research data

- Federated Research Data Repository (FRDR): <https://www.frdr-dfdr.ca/repo/>
- To help searching the above, Geodisy: <https://geo.frdr-dfdr.ca/>
- <Odesi>: <https://search1.odesi.ca/#/>
- Many institutions have their own research data repositories (McGill's: <https://dataverse.scholarsportal.info/dataverse/mcgill>)
- To find the above, it's good to know any publications from the data – you can then use the institutional affiliation of the researcher to look in that institution's repository.

Where to find: Big data

- Google
 - Various (research?) <https://datasetsearch.research.google.com/>
 - Public <https://www.google.com/publicdata/directory>
- [Esri's Living Atlas](#) (mainly geospatial data).
- Various companies (eg [BIXI](#)).
- [Creative Commons](#).
- Often searching “[Company/Subject X] Open Data” will bring results (maybe, and of varying degrees of trustworthiness).

GéoIndex




- <https://geoapp.bibl.ulaval.ca/>
- You will need to log in every time
- Can use it in both English and French
- A repository of data for Universities in Québec
- More direct method of searching for data by location
- Primarily Québec data, but some for the rest of Canada as well

Connect to Geoindex

Organization [v]

Login

Or connect to the public version

Or connect to the public version without download

As a guest

Discover, view,
and use geospatial data
with
Geoindex

Learn more

Connect to Geoindex

Organization

- École de technologie supérieure
- HEC Montréal
- Institut national de la recherche scientifique
- Or cont Polytechnique Montréal
- Université Bishop's
- Université Concordia
- Université de Montréal
- Or cont Université de Québec à Trois-Rivières
- w Université de Sherbrooke
- Université du Québec à Chicoutimi
- Université du Québec à Montréal
- Université du Québec à Rimouski
- Université du Québec en Abitibi-Témiscamingue
- Université du Québec en Outaouais
- Université Laval
- Université McGill**

Discover, view,
and use geospatial data
with
Geoindex

[Learn more](#)

Search (metadata)

Search (metadata)

1827 2020

Data type

Geometry type

Subjects

Topics

Collections

Producers

Geospatial data Aerial photographs

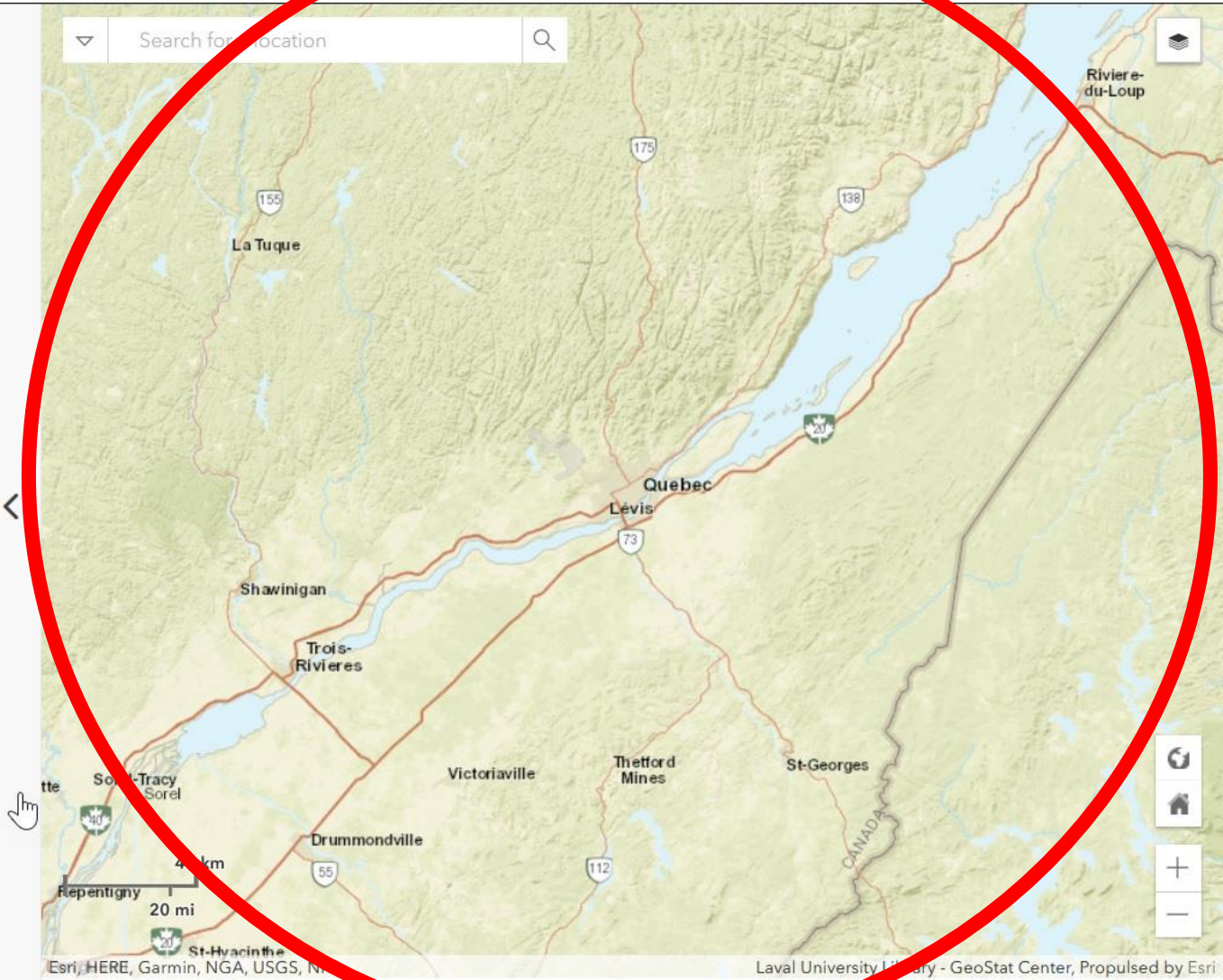
Results 1 to 25 of 664

Sort by: Popularity

- Roads
- Vegetation
- Building
- Municipalities
- Lot polygon
- Building-Annotation
- Transportation route
- Lot polygon
- MNA 1/20 000
- Wetlands
- Administrative regions
- Transportation route
- Vegetation
- Building
- Trails
- Hypsometry
- Boroughs
- Designated area
- Aboriginal Boundaries

1 2 3

Select an area Extract



Search (metadata)

Search (metadata)

1890 2020

Data type

Geometry type

Subjects

Topics

Collections

Producers

Geospatial data

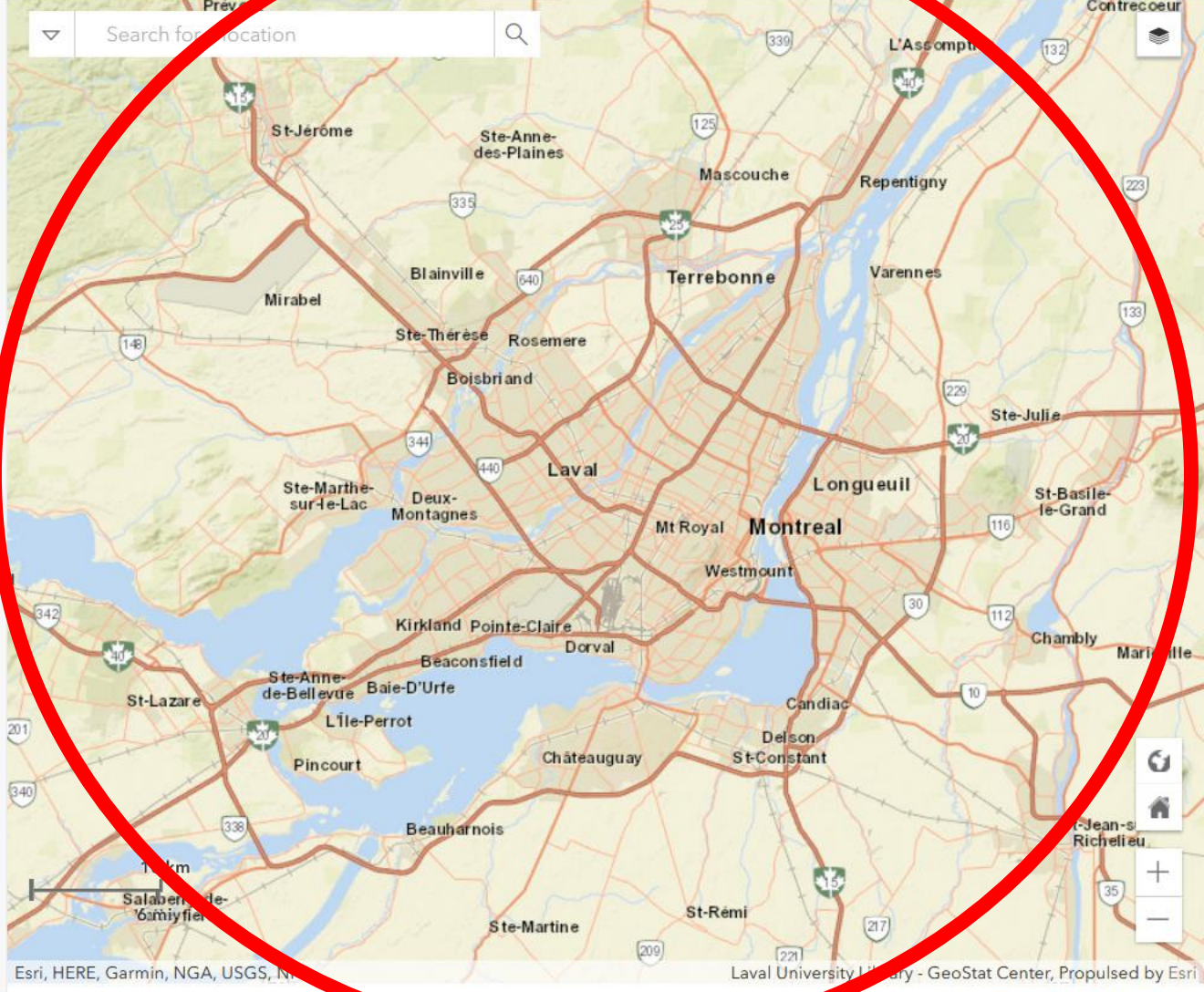
Aerial photographs

Results 1 to 25 of 545

Sort by: Popularity

- Roads
- Vegetation
- Building
- Municipalities
- Map Island Montreal 1924
- Lot polygon
- Building-Annotation
- Transportation route
- Lot polygon
- MNA 1/20 000
- Wetlands**
- Administrative regions
- Transportation route
- Vegetation
- Building
- Map Island Montreal 1912
- Trails
- Hypsometry
- Boroughs

Select an area Extract



Wetland (surface)

Author : Québec (Province). Ministère des Ressources naturelles et de la Faune (80)

Collection : Base de données topographiques du Québec (BDTQ) (33)

Subjects : Wetlands (15)

Year : 2008 (42)

McGill Geoindex

Search (metadata)

Search (metadata)

1890 2020

Data type

Geometry type

Subjects

Topics

Collections

Producers

Geospatial data Aerial photographs

Results 1 to 25 of 545

Sort by: Popularity

- Roads
- Vegetation
- Building
- Municipalities
- Map Island Montreal 1924
- Lot polygon
- Building-Annotation
- Transportation route
- Lot polygon
- MNA 1/20 000
- Wetlands
- Administrative regions
- Transportation route
- Vegetation
- Building
- Map Island Montreal 1912
- Trails
- Hypsometry
- Boroughs

1 2 3

Select an area Extract

Martin Chandler Menu

- Content management
- My profile
- Save
- My preferences
- My session
- Management
- List of all layers
- Sign out

Search for a location

10 km

Esri, HERE, Garmin, NGA, USGS, NPS

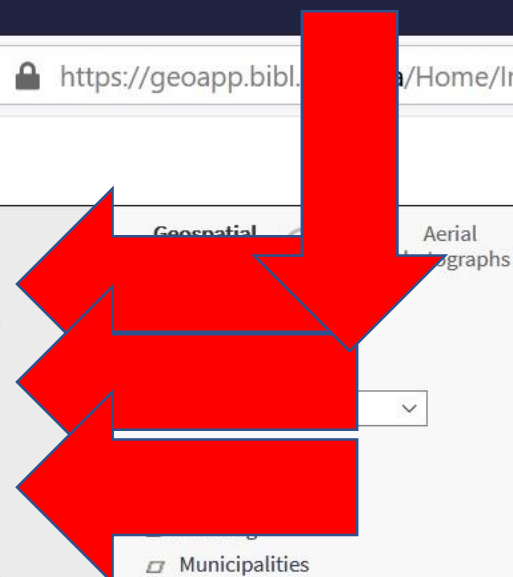
Laval University Library - GeoStat Center, Propulsed by Esri

Search (metadata)

Search (metadata) 🔍

1890 2020

- Data type ▾
- Geometry type ▾
- Subjects ▾
- Topics ▾
- Collections ▾
- Producers ▾

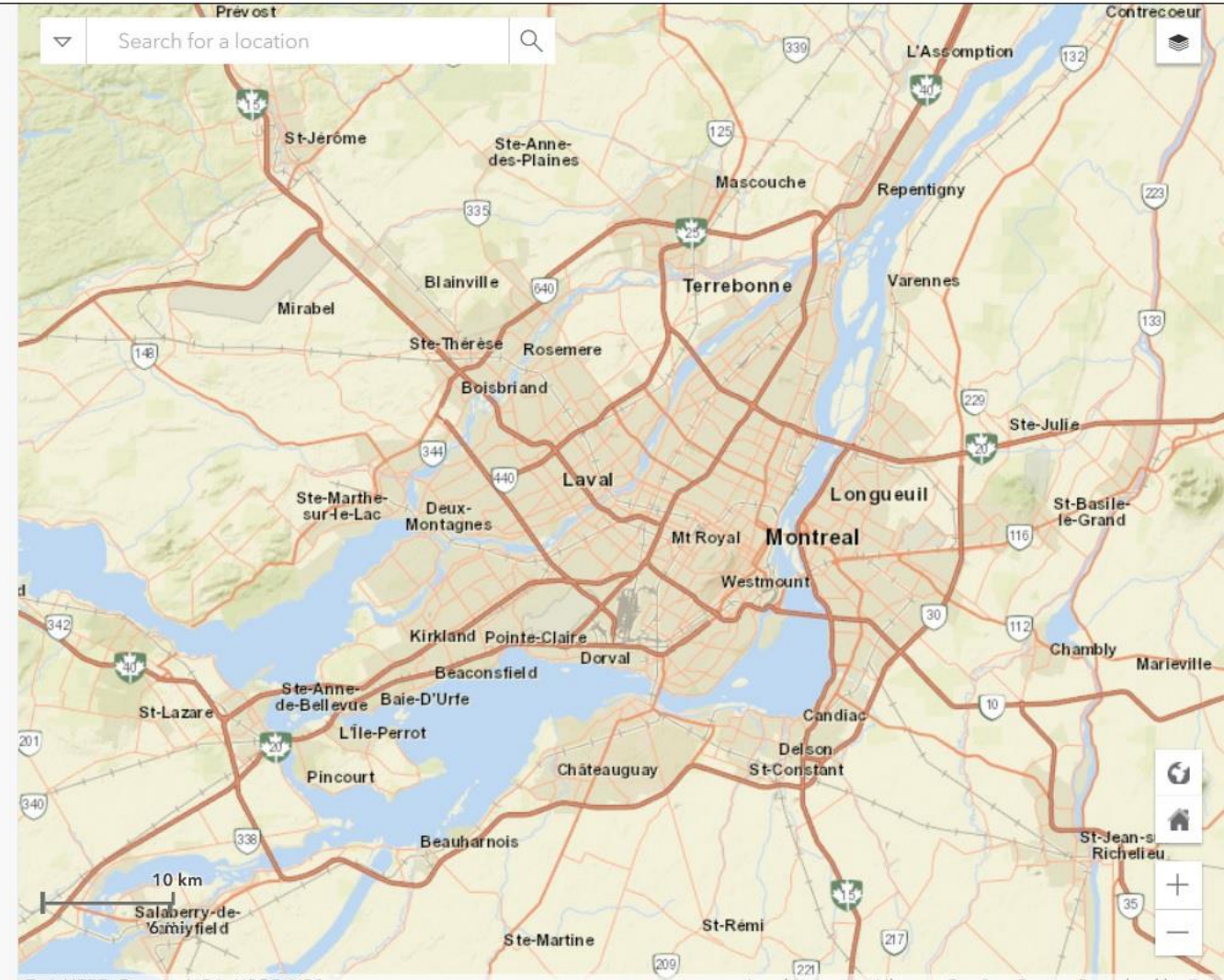


Geospatial

Aerial photographs

- Municipalities
- Map Island Montreal 1924
- Lot polygon
- Building-Annotation
- Wetlands
- Lot polygon
- Administrative regions
- Transportation route
- MNA 1/20 000
- Trails
- Transportation route
- Vegetation
- Building
- Municipalities
- Boroughs
- Map Island Montreal 1912

Select an area Extract





Search (metadata)

cadastral

- Banque de données cadastrales du Québec - 2015 (1) - Collections
- Banque de données cadastrales du Québec - 2018 (2) - Collections
- Banque de données cadastrales du Québec - 2019 (2) - Collections

- Data type
- Geometry type
- Subjects
- Topics
- Collections
- Producers

Geospatial data



Aerial photographs

Results 1 to 25 of 60

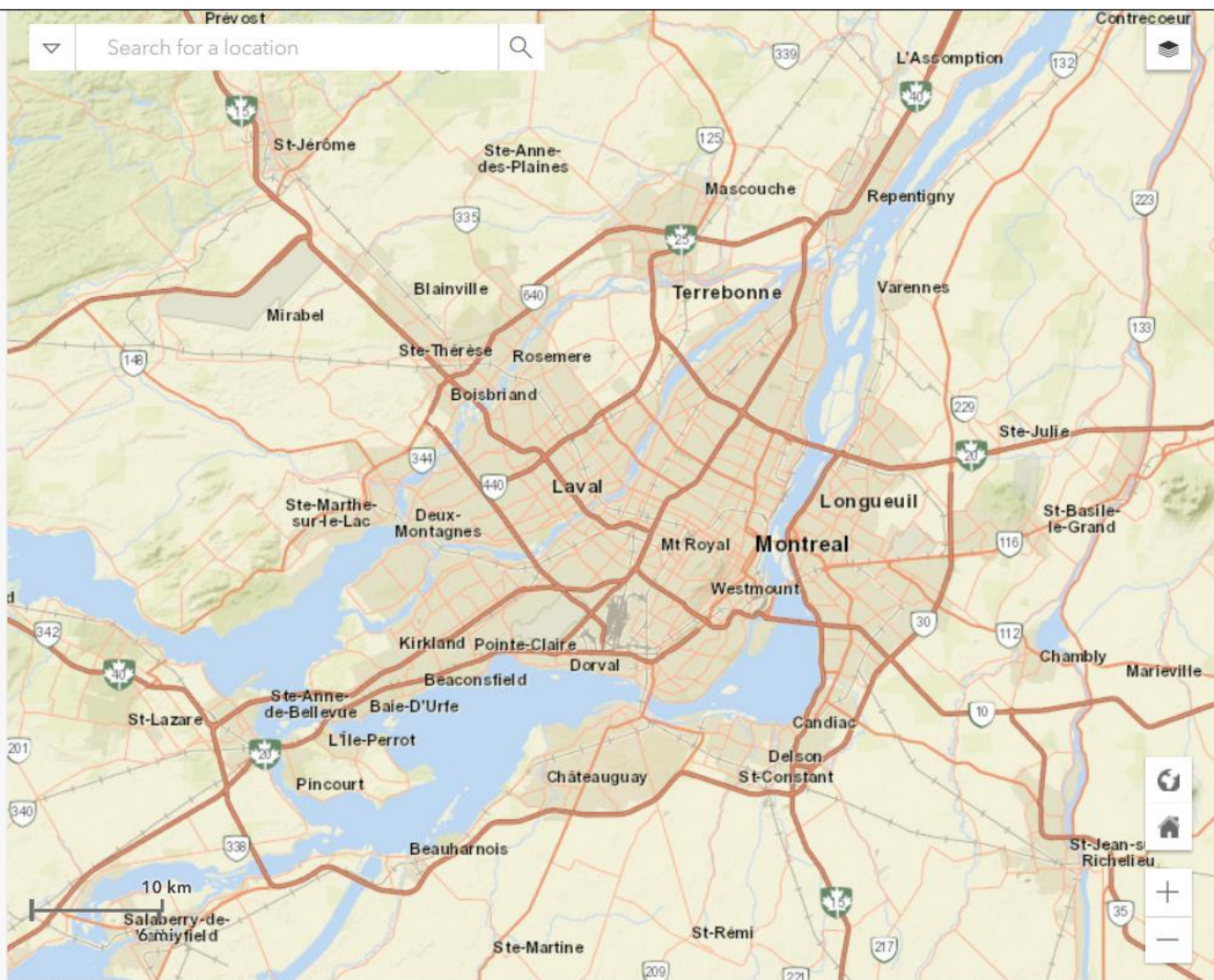
Popularity

- Island Montreal 1924
- Lot polygon
- Lot polygon
- Map Island Montreal 1912
- Island of Montreal 1890
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Heronry
- Bird colony
- Muskrat habitat
- Waterfowl

1 2 3

Select an area

Extract





Search (metadata)

cadastral [Clear] [Search]

2008 [Slider] 2019

Reset years

Data type [Dropdown]

Geometry type [Dropdown]

Subjects [Dropdown]

Topics [Dropdown]

Collections [Dropdown]

Producers [Dropdown]

Geospatial data [Toggle]

Aerial photographs [Toggle]

Results 1 to 25 of 57 filtered

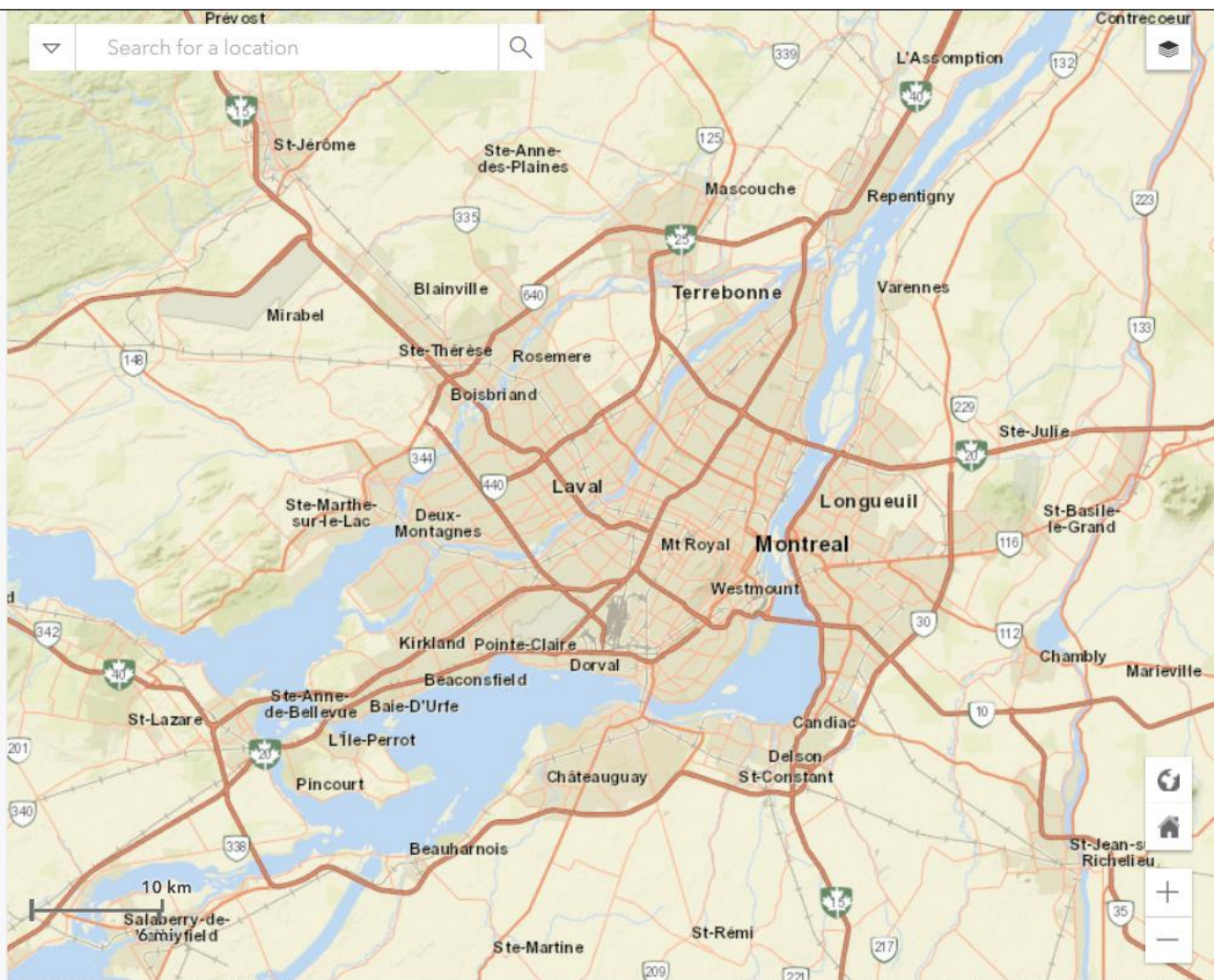
Sort by: Popularity [Dropdown]

- Lot polygon
- Lot polygon
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Heronry
- Bird colony
- Muskrat habitat
- Waterfowl
- Muskrat habitat
- Heronry
- White-tailed deer

1 2 3 [Navigation icons]

Select an area

Extract

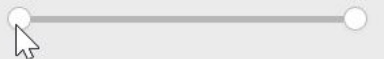




Search (metadata)

cadastral

2008 2019



Reset years

Data type

Geometry type

Subjects

Topics

Collections

Producers

Geospatial data

Aerial photographs

Results 1 to 25 of 1 filtered

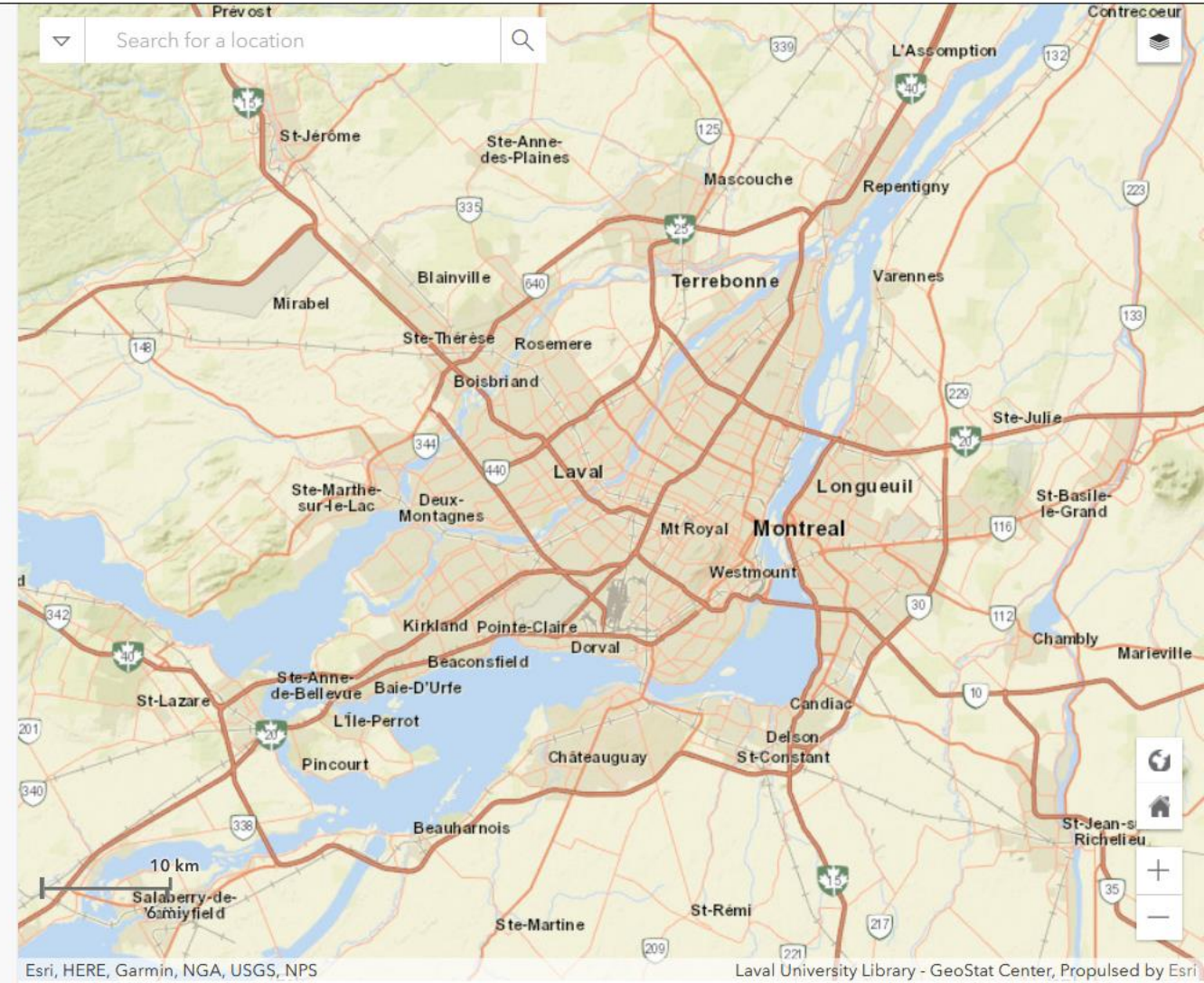
Sort by: Popularity

- Lot polygon
- Lot polygon
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Heronry
- Bird colony
- Muskrat habitat
- Waterfowl
- Muskrat habitat
- Heronry
- White-tailed deer

1 2 3

Select an area

Extract





Search (metadata)

cadastral

2008 2019

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Geospatial data



Aerial photographs

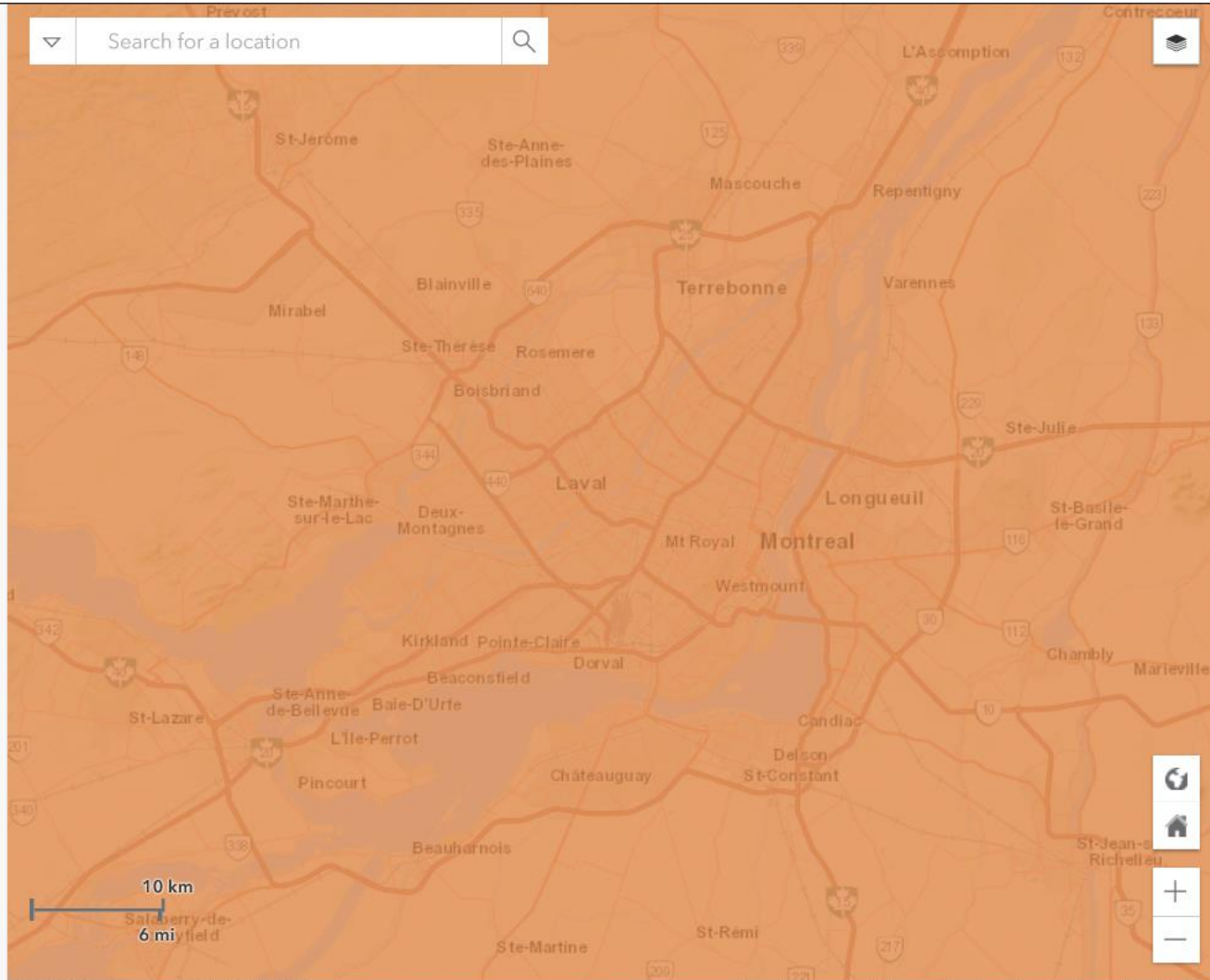
Results 1 to 25 of 57 filtered

Sort by: Popularity

- Lot polygon
- Lot polygon**
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Heronry
- Bird colony
- Muskrat habitat
- Waterfowl
- Muskrat habitat
- Heronry
- White-tailed deer

Select an area

Extract





Search (metadata)

cadastral

2008 2019

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Geospatial data



Aerial photographs

Results 1 to 25 of 61 filtered

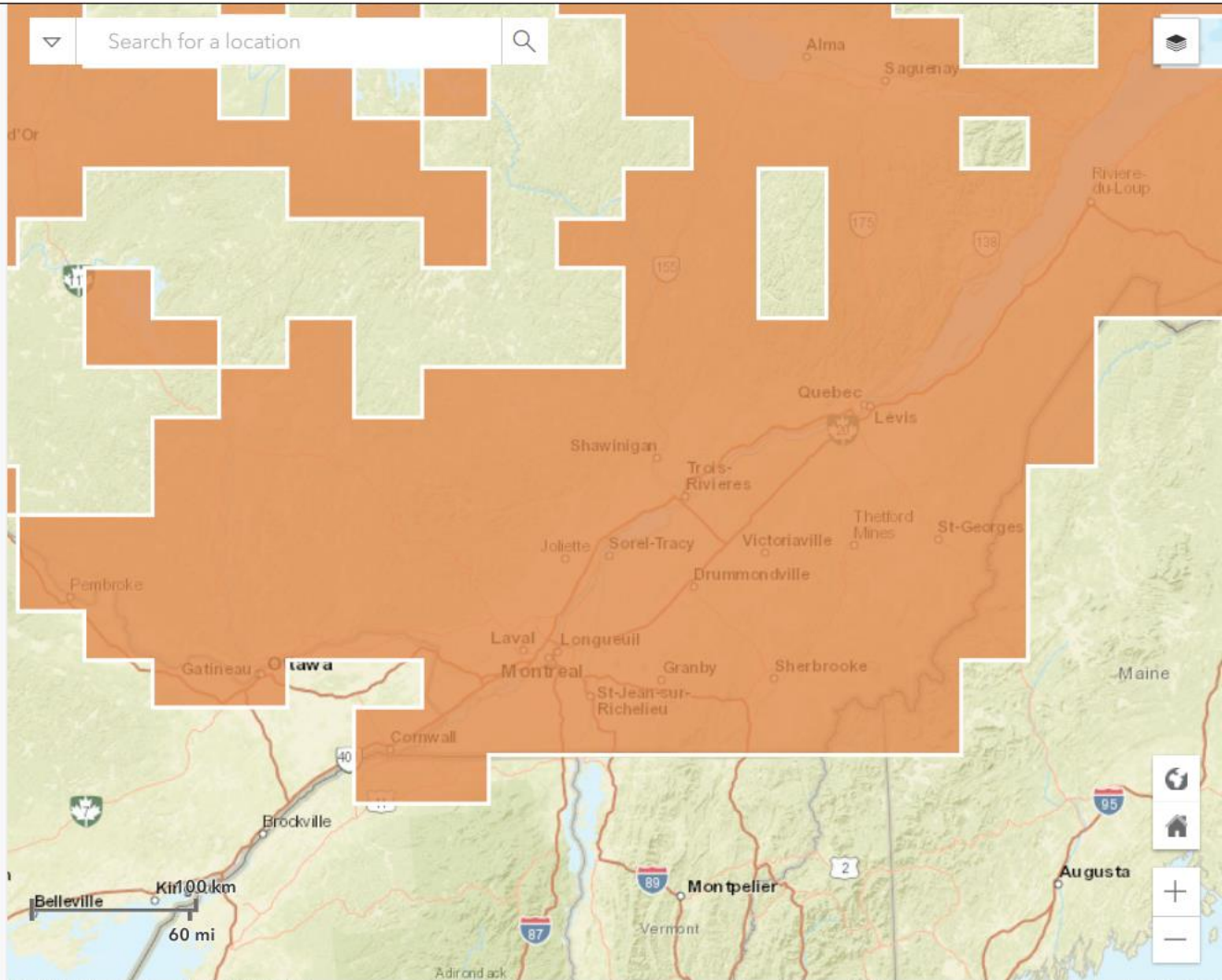
Sort by: Popularity

- Lot polygon
- Lot polygon**
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Heronry
- Vulnerable or at-risk species
- Bird colony
- Cliffside bird colony
- Muskrat habitat
- Waterfowl
- Cliffside bird colony

1 2 3

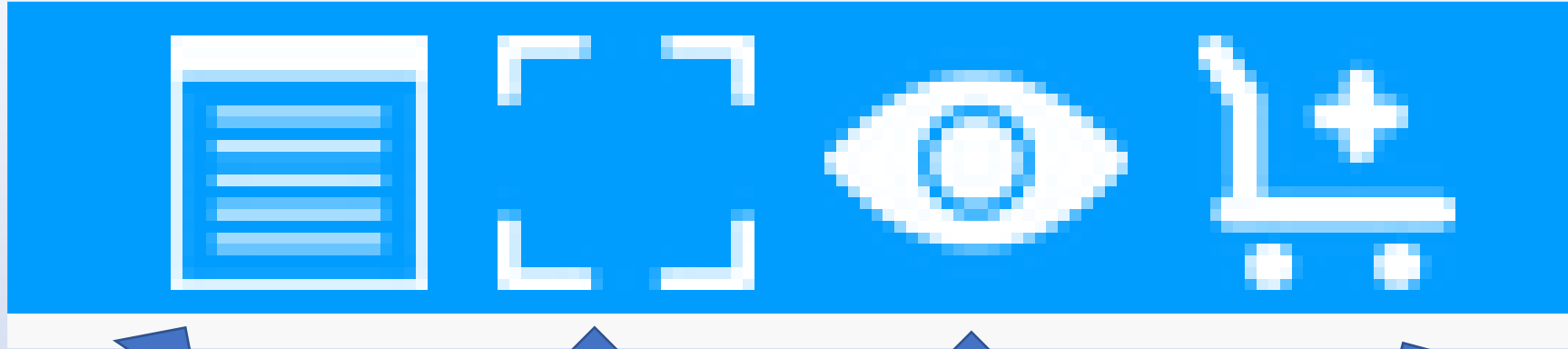
Select an area

Extract



Esri, HERE, Garmin, NGA, USGS, NPS

Laval University Library - GeoStat Center, Propulsed by Esri



Shows
metadata
about the
data



Zooms to
the layer's
coverage
on the map



Shows
the layer
on the
map



Adds the
data to your
cart for
extracting

Search (metadata)
cadastral

2008 2019

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Producers

Geospatial data

Results 1 to 25 of 57

Sort by: Popularity

- Lot polygon
- Lot polygon
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 1)
- Réseau routier (FLC - 2)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Heronry
- Bird colony
- Muskrat habitat
- Waterfowl
- Muskrat habitat
- Heronry
- White-tailed deer

Select an area

Lot polygon

Ressource description Join us Data Quality Guide, Codebook, etc. Reference system and spatial information Metadata Distribution

Reference information

French title *	Polygone de lot
English title	Lot polygon
Alternate title (French) / Alternate title (English)	
Collection title	Banque de données cadastrales du Québec - 2018
Date type *	Publication
Date *	2018-08-15
Abstract *	<p>Polygones représentant les lots de la Banque de données cadastrales du Québec en date du 31 août 2018.</p> <p>Les polygones de lots sont liés à des tables d'attributs (via le champs no_lot). Ces attributs sont les suivants :</p> <ul style="list-style-type: none">- la municipalité;- le(s) propriétaire(s);- le numéro du titre de propriété;- les concordances avec les anciens lots.- les plans superficiaires (si présent pour le lot). Polygons representing lots in the Banque de données cadastrales du Québec, Québec's cadastral database, dated August 31, 2018. <p>The lot polygons are linked to attribute tables (via the no_lot field). These attributes are as follows:</p> <ul style="list-style-type: none">- the municipality;- the owner(s);- the property title number;- correlations with former lots.- superfiary plans (if present for the lot).



Search (metadata)

cadastral

2008 2019

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Geospatial data



Aerial photographs

Results 1 to 25 of 64 filtered

Sort by: Popularity

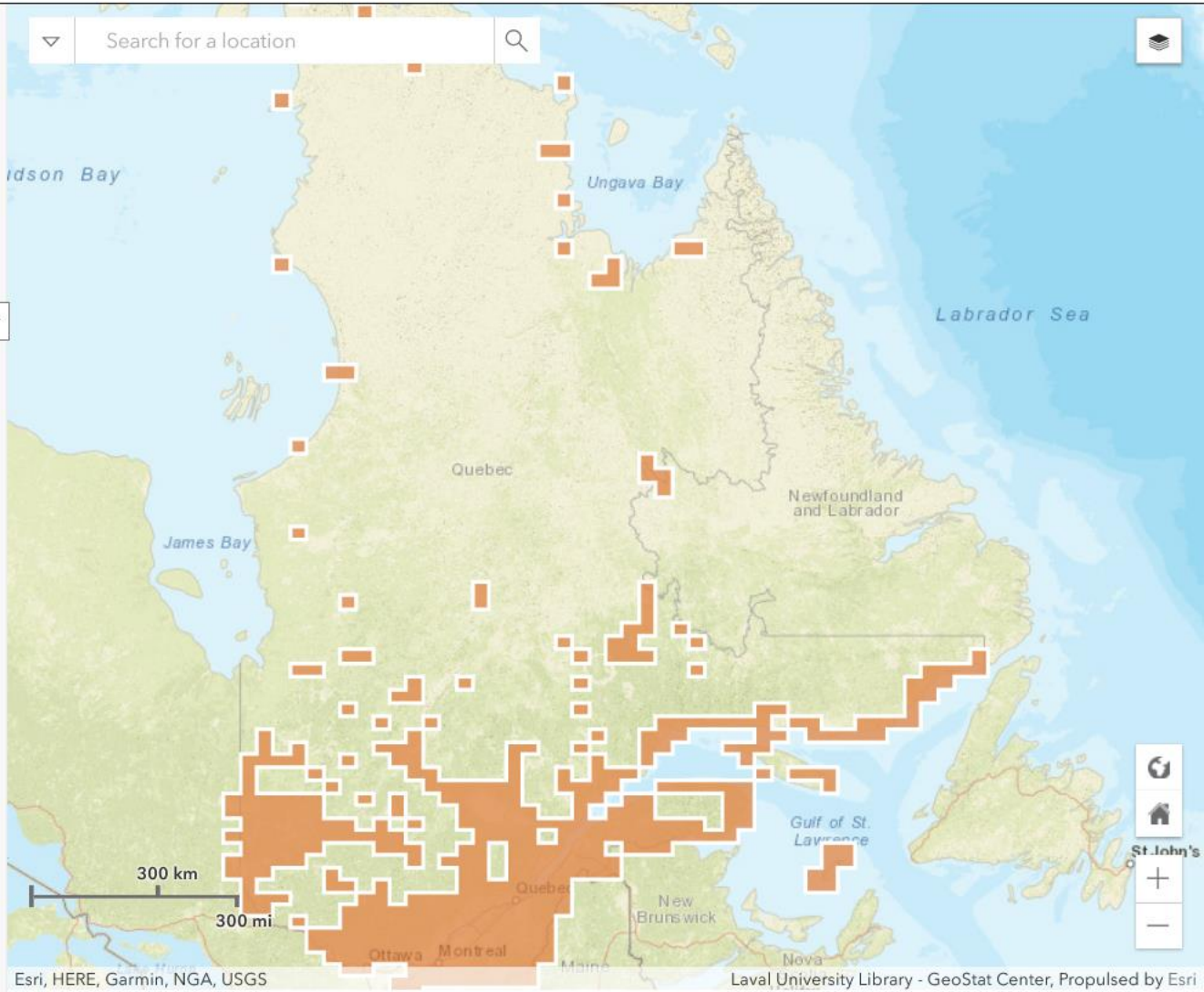
- Lot polygon
- Lot polygon**
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Heronry
- Vulnerable or at-risk species
- Bird colony
- Cliffside bird colony
- Muskrat habitat
- Fish habitat
- Waterfowl



Zoom to this layer

Select an area

Extract



Lot polygon

Author : Québec (Province). Ministère des Ressources naturelles et de la Faune (20)

Collection : Banque de données cadastrales du Québec - 2018 (2)

Subjects : lots (4), Cadastres (6)

Year : 2018 (2)



Search (metadata)

cadastral

2010 2019

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Producers

Geospatial data Aerial photographs

Results 1 to 25 of 48 filtered

Sort by: Popularity

- Lot polygon
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- Lot line
- Formalized boundaries
- Waterfowl
- Bird colony
- Waterfowl
- AD (FLC - 2016)
- Hydro - rivières (FLC - 2016)
- Prov & Terr (FLC - 2016)
- RAR (FLC - 2016)
- SR (FLC - 2016)
- RE (FLC - 2016)
- SRU (FLC - 2016)

1 2

Select an area

Extract



Search (metadata)

cadastral

2008 2019

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Lot polygon

Author : Québec (Province). Ministère des Ressources naturelles et de la Faune (13)

Collection : Banque de données cadastrales du Québec - 2018 (2)

Subjects : lots (4), Cadastres (6)

Year : 2018 (2)

Geospatial data

Aerial photographs

Results 1 to 25 of 55 filtered

Sort by: Popularity

- Lot polygon
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized boundaries
- Waterfowl
- Heronry
- Bird colony
- Muskrat habitat
- Waterfowl
- Muskrat habitat
- Heronry
- White-tailed deer

Select an area | Extract

Search for a location

Esri, HERE, Garmin, NGA, USGS, NPS, NRCan | Laval University Library - GeoStat Center, Propulsed by Esri



Search (metadata)

cadastral

2008 2019

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Producers

Geospatial data Aerial photographs

Results 1 to 25 of 55 filtered

Sort by: Popularity

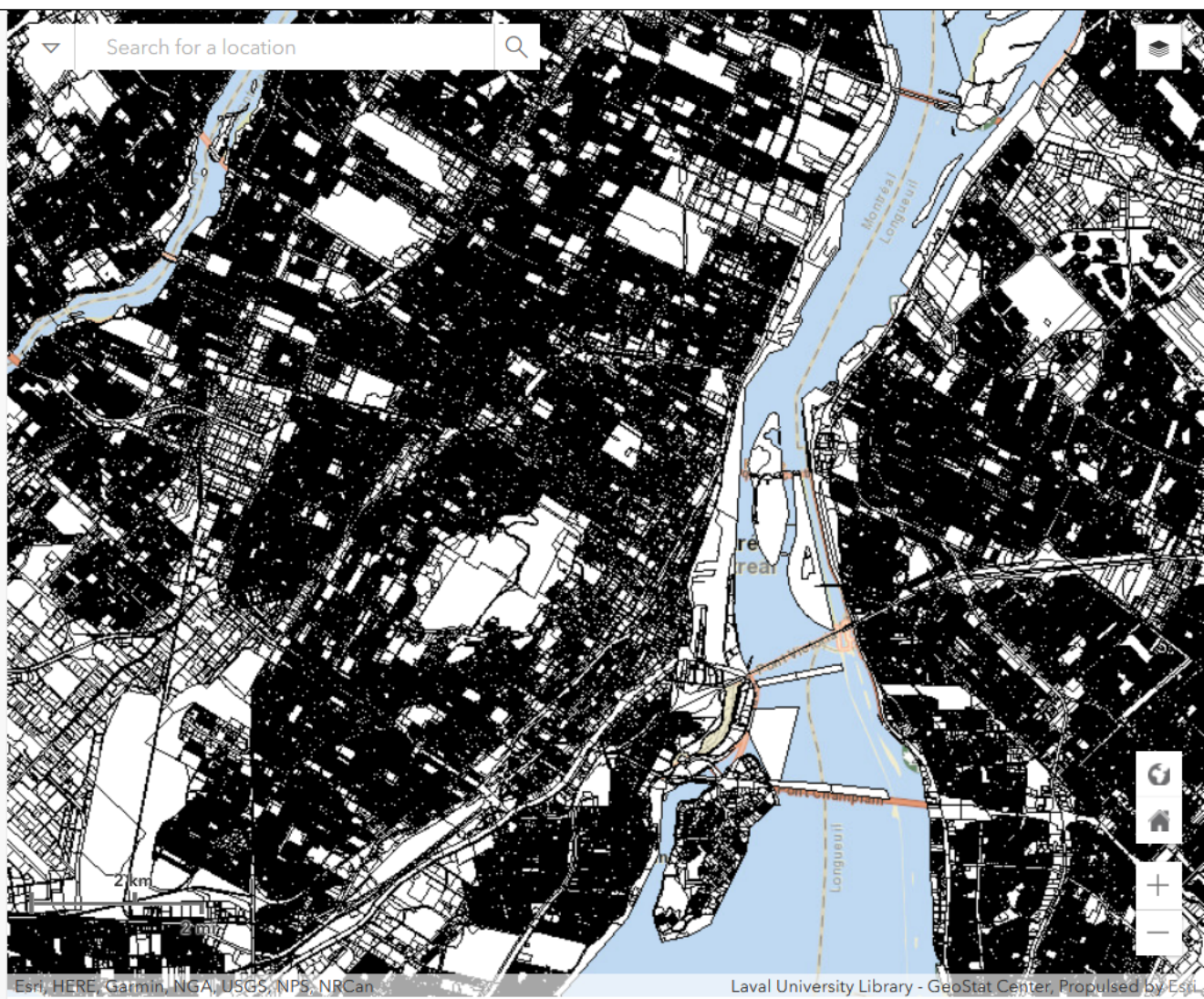
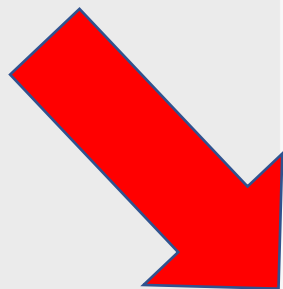
Lot polygon

- Lot polygon
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized boundaries
- Waterfowl
- Heronry
- Bird colony
- Muskrat habitat
- Waterfowl
- Muskrat habitat
- Heronry
- White-tailed deer

1 2 3

Predefined zone

Extract





Search (metadata)

cadastral [X] [Search icon]

2008 [Slider] 2019

[X] Reset years

Data type [v]

Geometry type [v]

Subjects [v]

Topics [v]

Collections [v]

Producers [v]

Geospatial data [Toggle] Aerial photographs

Results 1 to 25 of 56 filtered

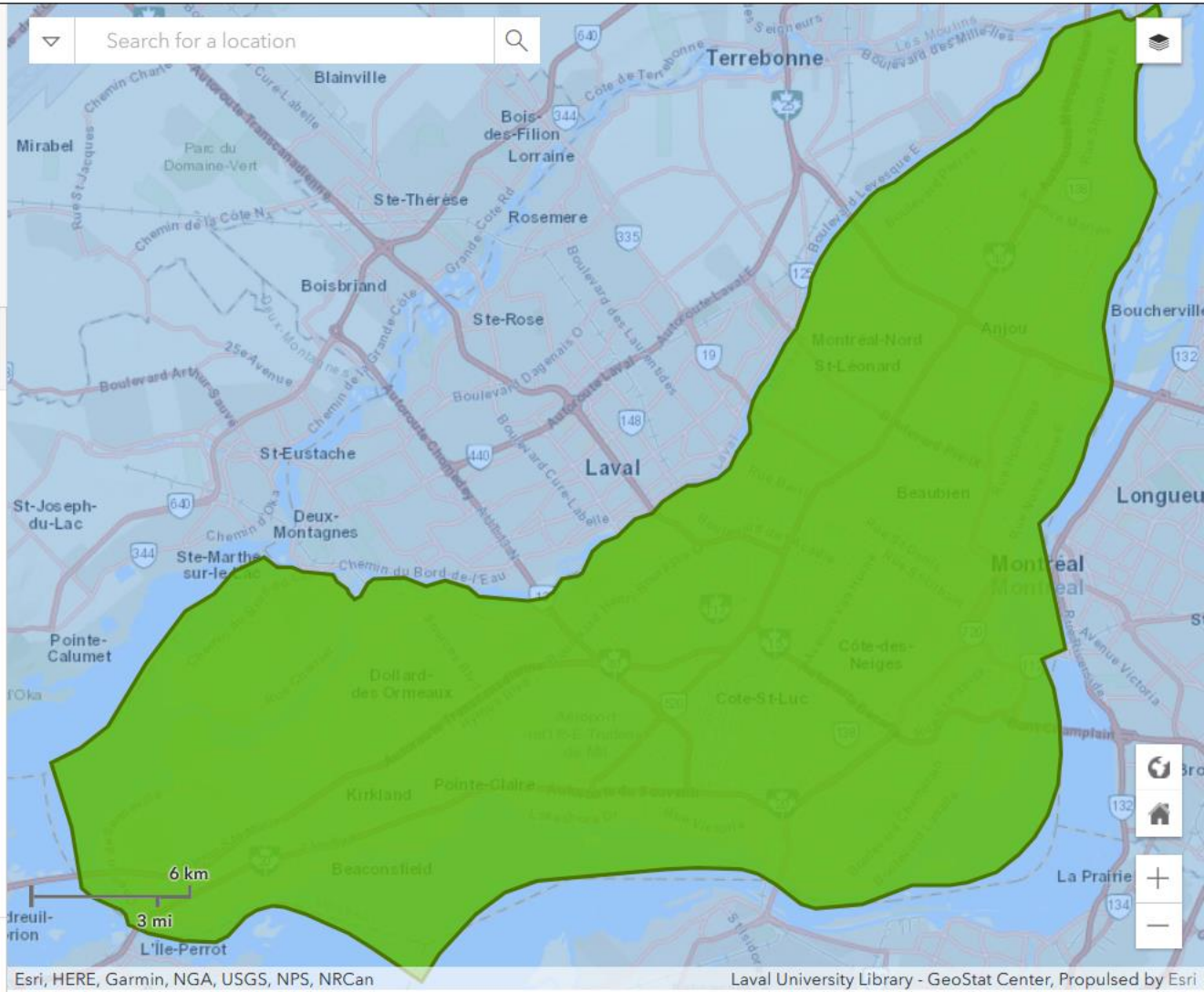
Sort by: Popularity [v]

Lot polygon [Progress bar]

Select a predefined area [X]

Montréal [X] [Search icon]

Add an area Close





Search (metadata)

cadastral

2008 2019

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Producers

Geospatial data



Aerial photographs

Results 1 to 25 of 56 filtered

Sort by: Popularity

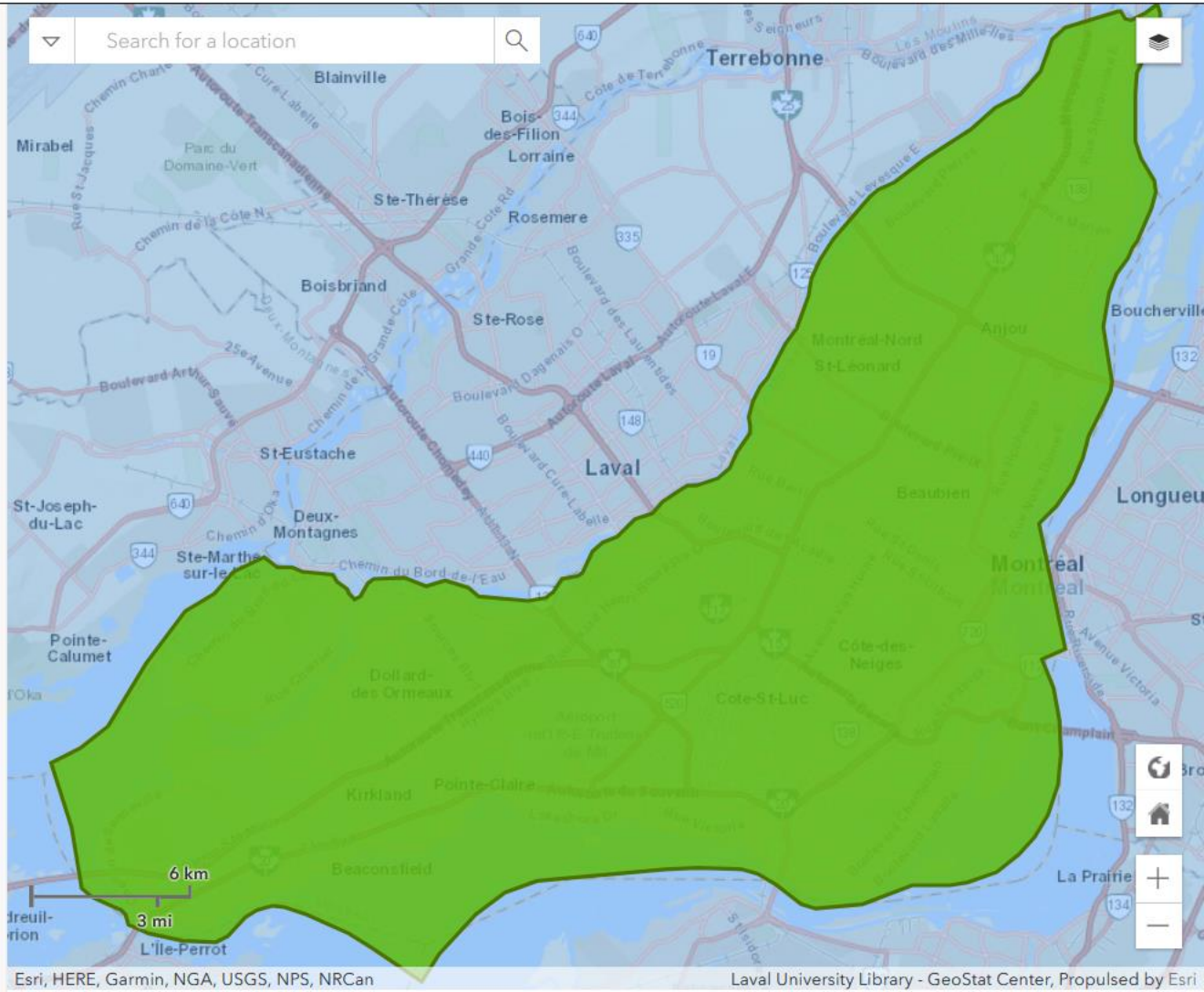
Lot polygon

- Lot polygon
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Nerony
- colony
- habitat

3

Select an area

Extract



Search (metadata)

cadastral [x] [Q]

2008 2019 [Slider]

[x] Reset years

Data type [v]

Geometry type [v]

Subjects [v]

Topics [v]

Collections [v]

Producers [v]

Geospatial data [Toggle] Aerial photographs

Results 1 to 25 of 56 filtered

Sort by: Popularity [v]

[x] Lot polygon [Progress bar]

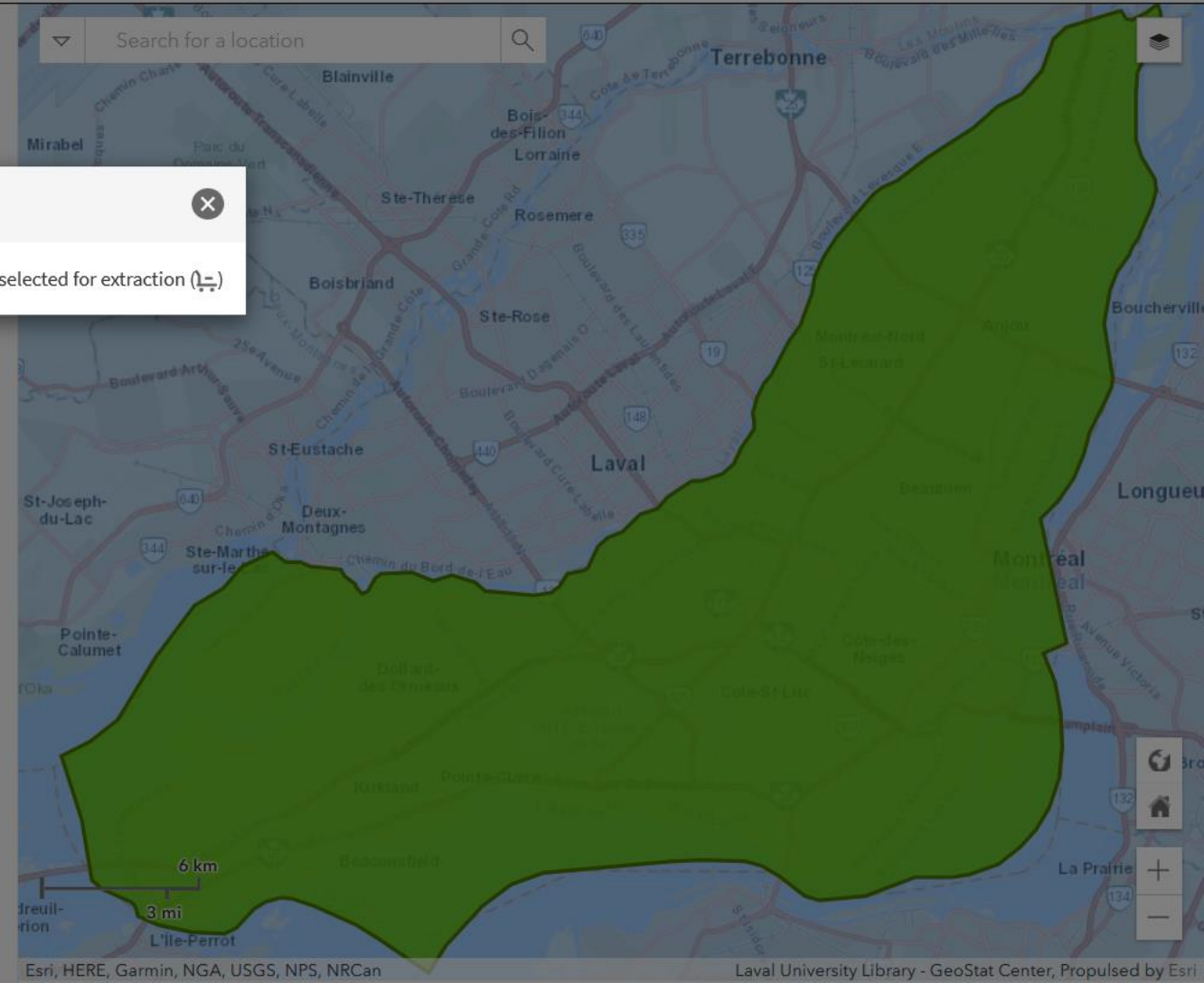
- [x] Lot polygon
- [x] Lot polygon
- [x] Bird colony
- [x] Hydro - rivières (FLC - 2011)
- [x] Réseau routier (FLC - 2011)
- [x] White-tailed deer
- [x] Lot line
- [x] Formalized lots
- [x] Formalized surveys
- [x] Formalized boundaries
- [x] Waterfowl
- [x] Heronry
- [x] Bird colony
- [x] Muskrat habitat
- [x] Waterfowl
- [x] Muskrat habitat

[Navigation arrows]

Select an area

[Download] Extract

Information [x]
No layers were selected for extraction (1,2)



Search (metadata)

Geospatial data Aerial photographs

Search for a location

2008

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Producers

Term of use

Licensing information MRNF

Information

You must read each of the licence agreements before you can proceed with data extraction.

Ces données sont fournies pour les fins ex... à d'autres fins:

- Contraintes d'accès : Être membre de la communauté universitaire.
- Contraintes d'utilisation: Pour des fins d'enseignement et de recherche.

End date * 2020-11-14

The default format for extracted vector data is

ESRI Shape

and the default projection is

MTM Zone 8 NAD83 (EPSG:32188)

Start extraction Advanced settings

Select an area

Extract

Search (metadata)

cadastral [X] [Q]

2008 2019 [Slider]

[X] Reset years

Data type [v]

Geometry type [v]

Subjects [v]

Topics [v]

Collections [v]

Producers [v]

Geospatial data [Toggle] Aerial photographs

Results 1 to 25 of 56 filtered

Sort by: Pop

- Lot poly
- Lot poly
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Heronry
- Bird colony
- Muskrat habitat
- Waterfowl
- Muskrat habitat

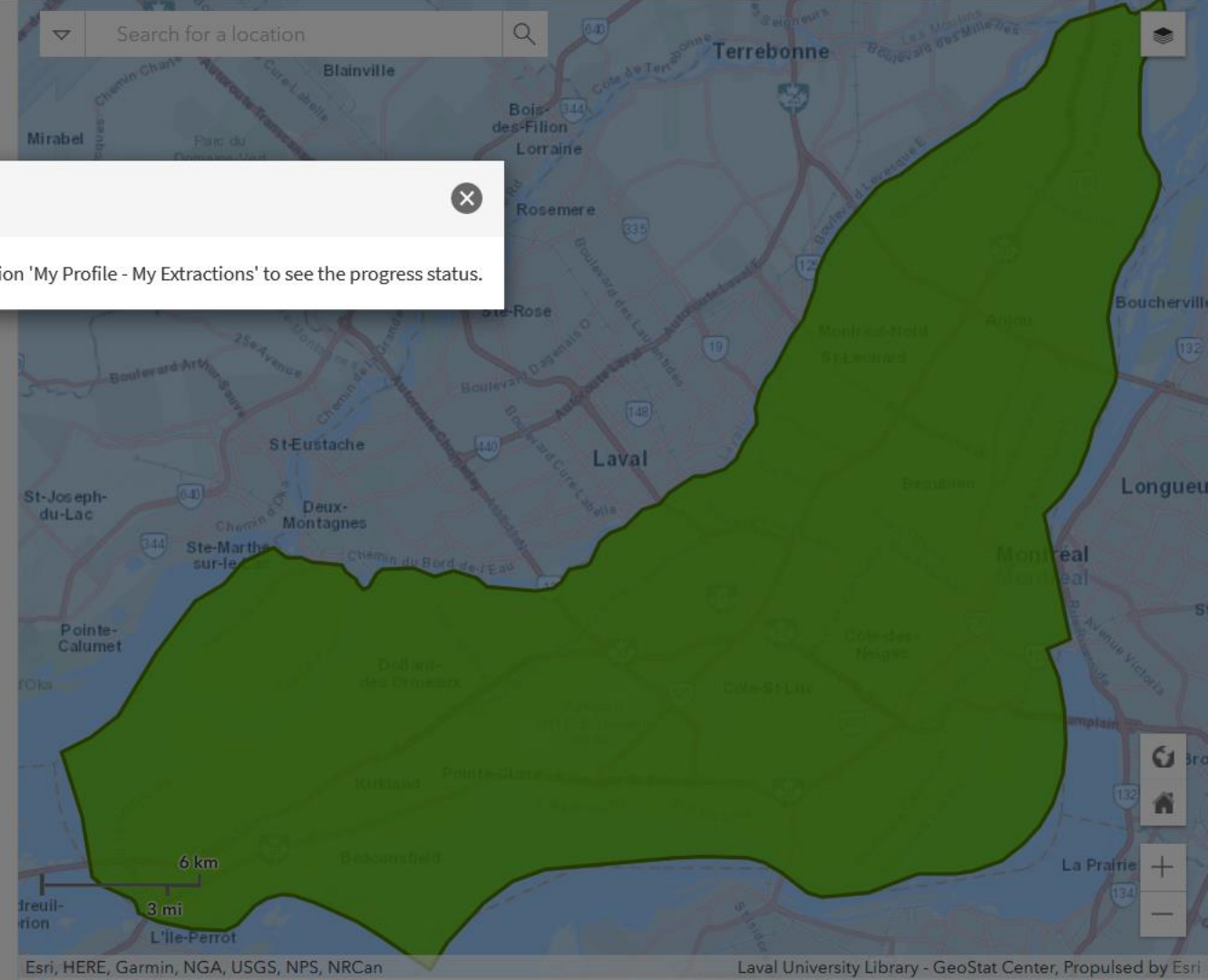
[Navigation arrows]

Select an area

[Download] Extract

Information [X]

Your request was sent. Please consult the section 'My Profile - My Extractions' to see the progress status.





Search (metadata)

cadastral

2008 2019

Reset years

Data type

Geometry type

Subjects

Topics

Collections

Producers

Geospatial data Aerial photographs

Results 1 to 25 of 56 filtered

Sort by: Popularity

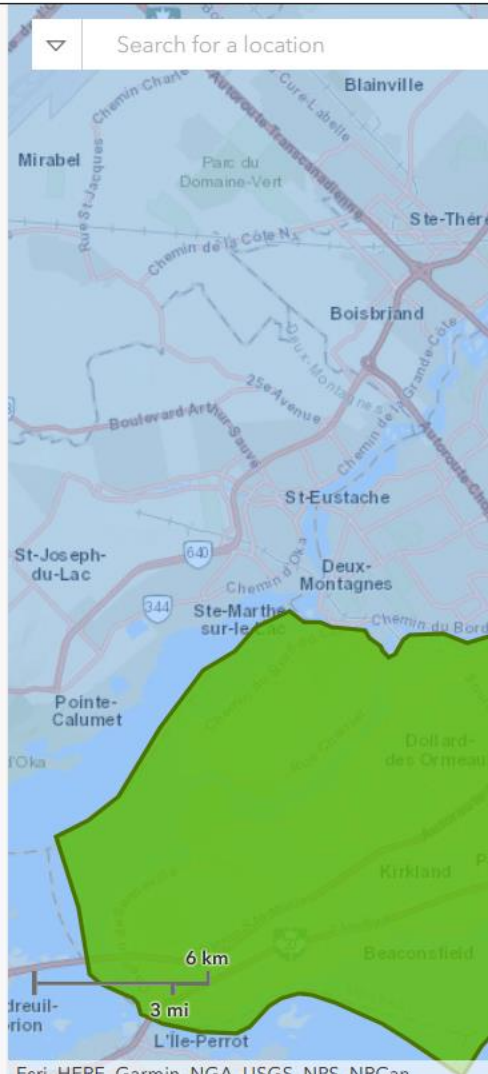
Lot polygon

- Lot polygon
- Lot polygon
- Bird colony
- Hydro - rivières (FLC - 2011)
- Réseau routier (FLC - 2011)
- White-tailed deer
- Lot line
- Formalized lots
- Formalized surveys
- Formalized boundaries
- Waterfowl
- Heronry
- Bird colony
- Muskrat habitat
- Waterfowl
- Muskrat habitat

1 2 3

Select an area

Extract



Martin Chandler Menu































- Content management
- My profile
- My preferences
- My sessions
- My extractions
- My zones
- Save
- Management
- List of all layers
- Sign out

Quit

My extractions

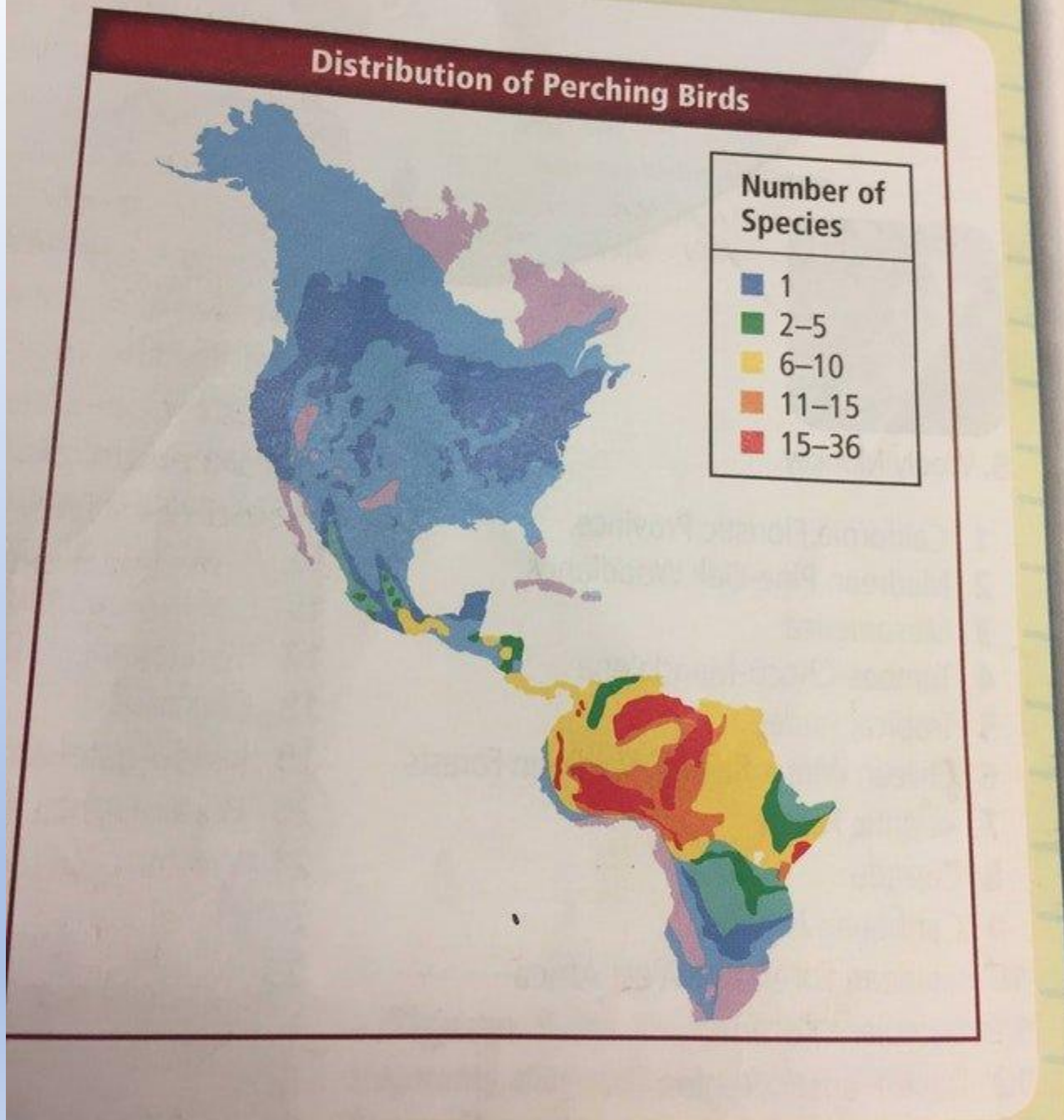
Your extraction will be saved for: 730 days.

List of layers	Status	Date ↓	Hour	Link	Size	Action
mrf_cadastre_polylot_2018_poly	In Progress	2020-08-26	17:01:03			    
cdse_2017_csang_s_poly	Completed	2020-01-09	12:15:49			    
cdse_2017_csang_s_poly	Failed	2020-01-08	11:16:54			    
mrf_cadastre_polylot_2015_poly	Completed	2020-01-06	16:13:09			    
mrf_cadastre_polylot_2015_poly	Failed	2020-01-06	16:07:55			    
aq_routes_2017_l_arc	Completed	2019-09-03	15:46:22			    

Things to think about when making a map

- Who is your audience?
- What is your map saying to that audience?
- What is your map not saying to that audience?
- What might be getting in the way of understanding?



- Here's a map. From a textbook. A Biology textbook.
- Please take a moment to appreciate everything about this map.



Gerätemarkt W&M
BJÖRKSTA
2000-1111
Salem/Schweden

NEU

Sources on end slide



Bear Location Map, North America

- Now check out this. Thoughts?

Thecasualcaribou. "Bear location map North America". Reddit, Inc. 15 Jan 2019, 08:56:35 GMT. Web. Accessed on 16 January 2019 from https://www.reddit.com/r/MapPorn/comments/ag8qc4/bear_location_map_north_america



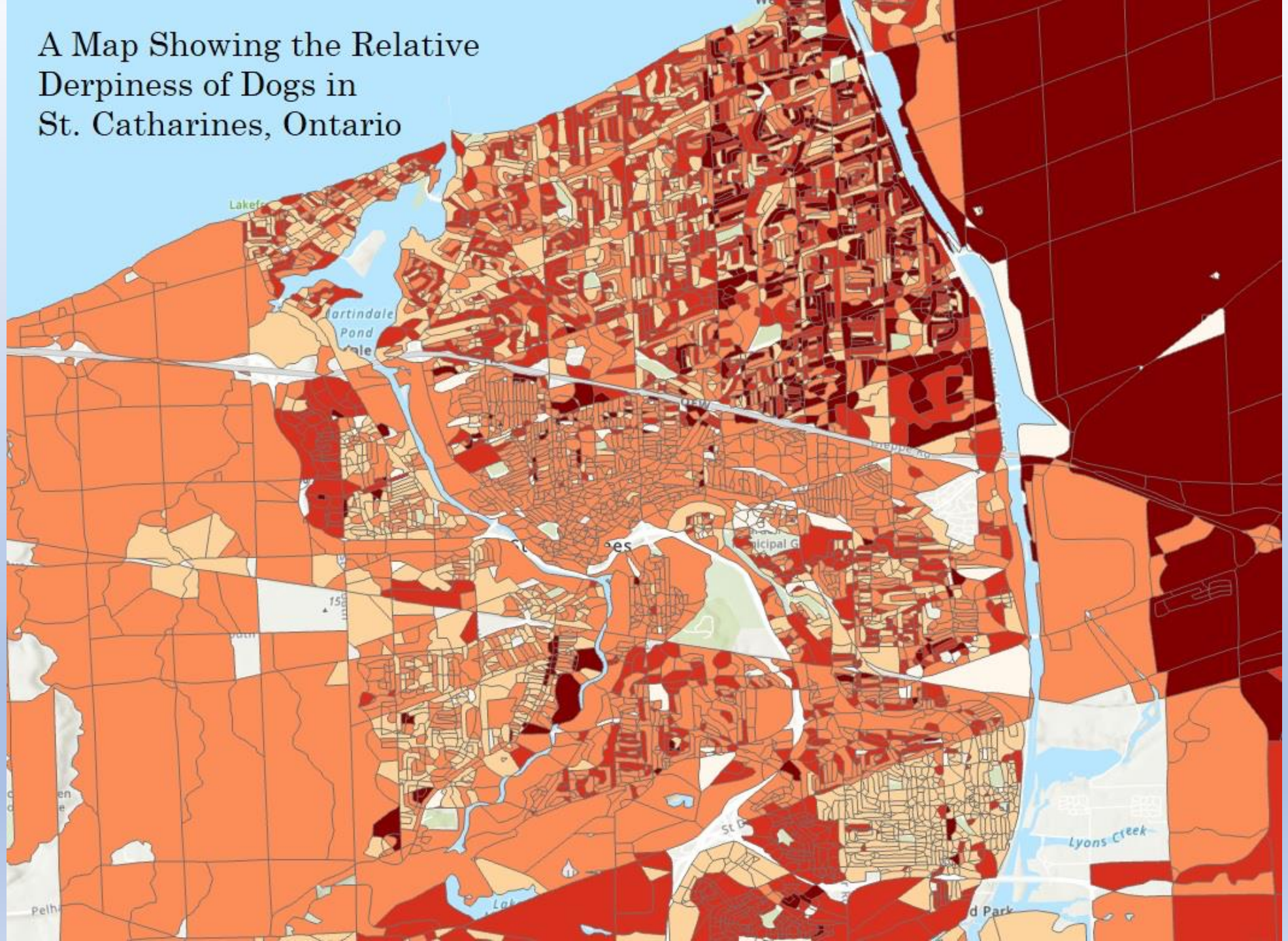
HUMAN FOOTPRINT

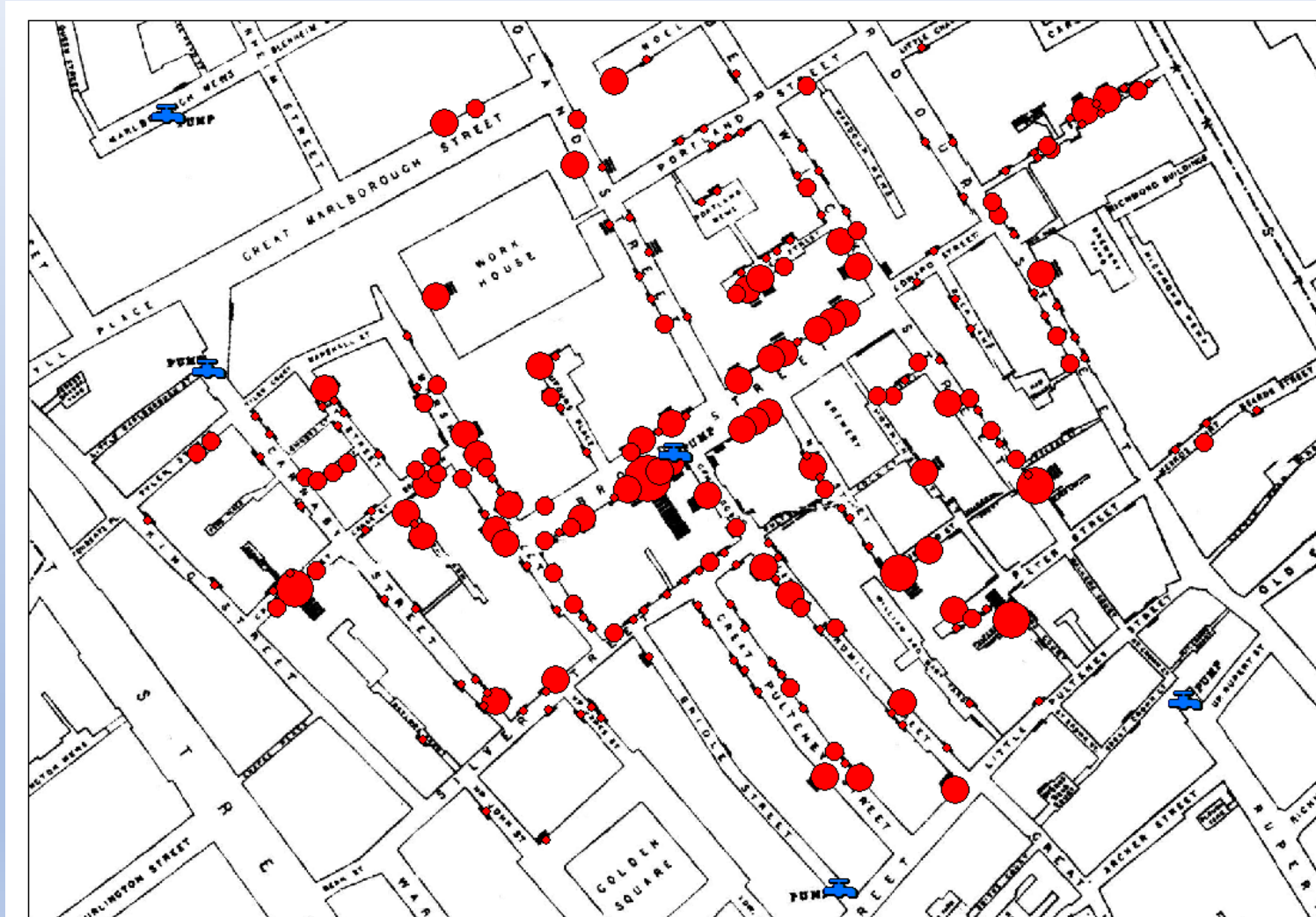
@TJUKANOV

ORIGINATOR: VENTER, O. E. W. SANDERSON, A. MAGRACH, J. R. ALLAN, J. BEHER, K. R. JONES, H. P. POSSINGHAM, W. F. LAURANCE, P. WOOD, B. M. FEKETE, M. A. LEVY, AND J. E. WATSON
PUBLICATION DATE: 2018
LAST OF THE WILD PROJECT, VERSION 3 (LWP-3) 2008 HUMAN FOOTPRINT, 2018 RELEASE

Yeet69Lasagna. "Where on the planet we can see the human footprint and which areas are still untouched? Brighter values represent higher pressure on the environment.". Reddit, Inc. 15 Jan 2019, 09:36:53 GMT. Web. Accessed on 16 Jan 2019 from https://www.reddit.com/r/MapPorn/comments/ag93ws/where_on_the_planet_we_can_see_the_human/

A Map Showing the Relative Derpiness of Dogs in St. Catharines, Ontario

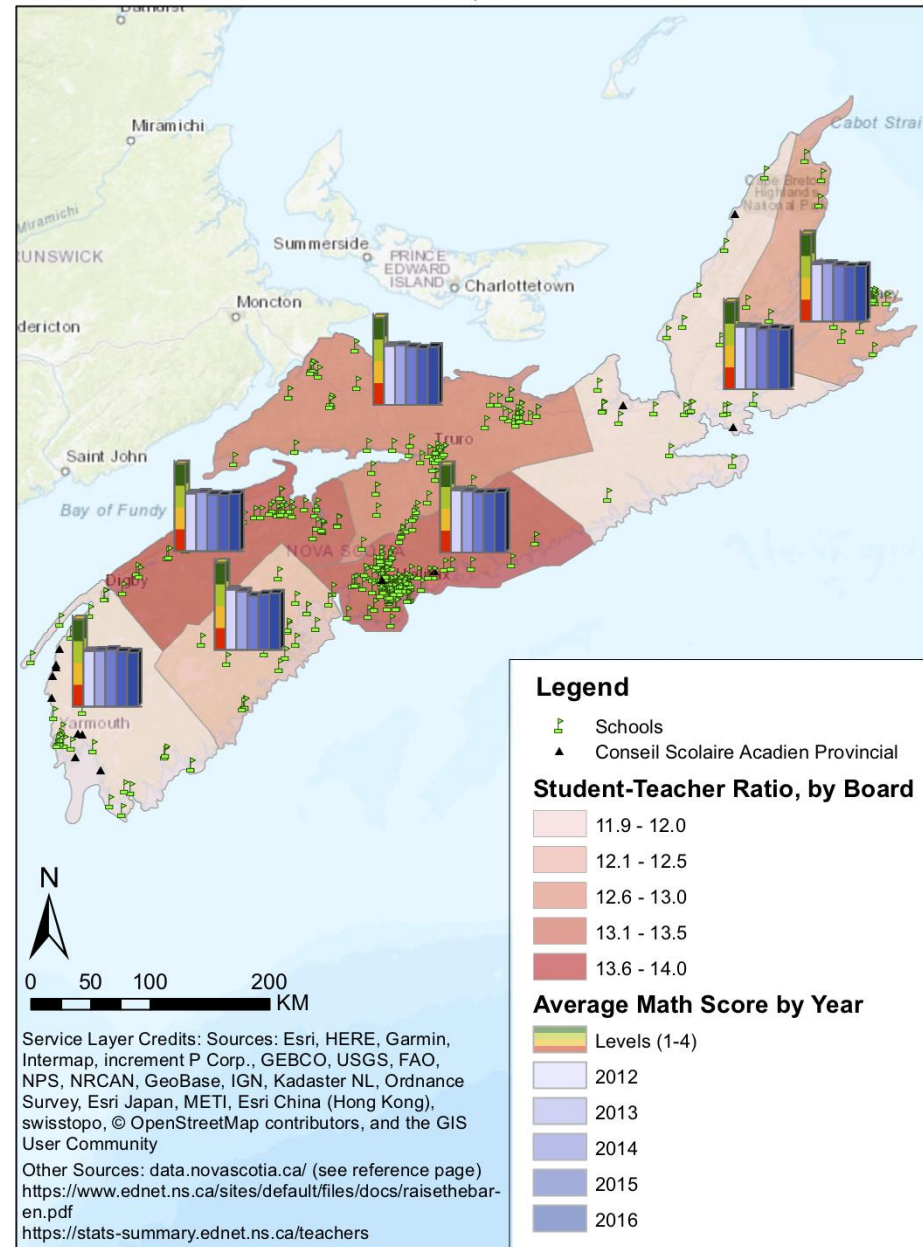


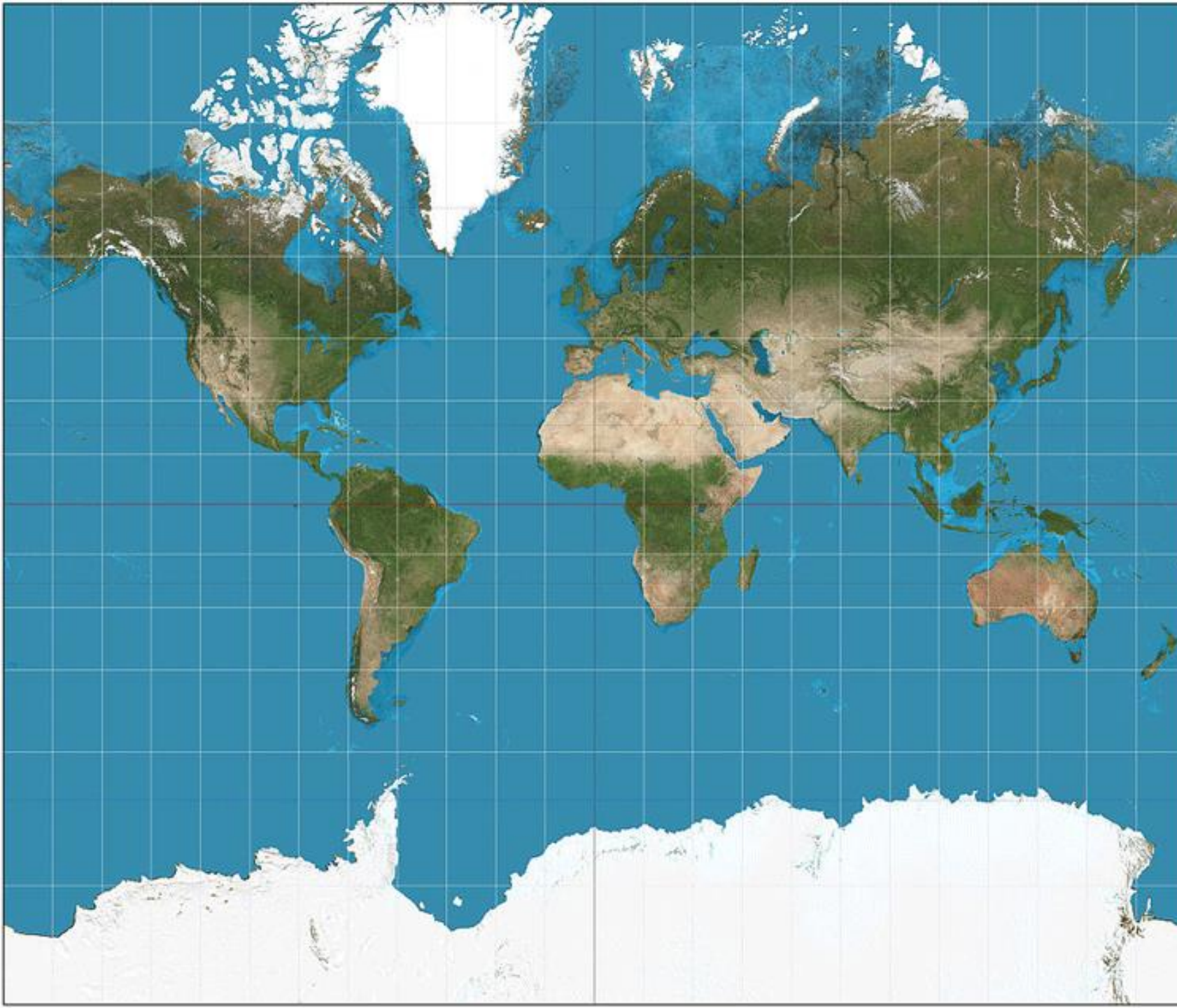


- An updated version of one of the first uses of GIS (John Snow's Cholera map, 1854, updated with current software)

Source: http://blog.rtwilson.com/wp-content/uploads/2012/01/SnowMap_Points.png

Math Levels Compared to Student-Teacher Ratios in Nova Scotia, 2012-2016





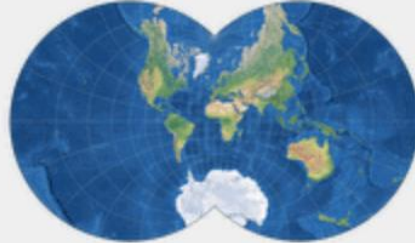
Borneman, Elizabeth. "Types of Map Projections". GeoLounge. 5 Jan 2015. Web. Accessed on 16 Jan 2019 from <https://www.geolounge.com/types-map-projections/>



Kharchenko-Shabanova



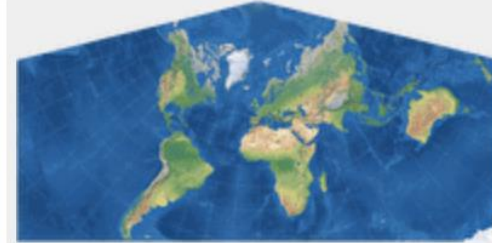
Lagrange



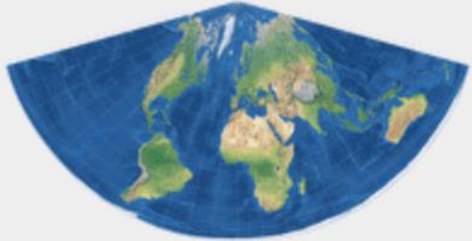
Lagrange (120°)



Lambert Cylindrical



Lambert CC



Lambert Equal-Area Conic



Larrivée



Laskowski Tri-Optimal



McBryde P3



McBryde Q3



McBryde S2



McBryde S3



McBryde S3 (i.)



McBryde-Thomas #1



McBryde-Thomas #2



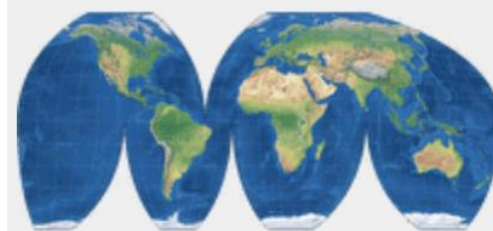
McBryde-Thomas FPP



McBryde-Thomas FPQ



McBryde-Thomas FPS



McBryde-Th. FPQ (i.)



Mercator

Projections

- The earth is a sphere
- Paper and screens are (usually) not spherical
- Putting a 3D thing into 2 dimensions means that something's gotta give
- Example: peel an orange. You cannot keep it circular, and see the entirety of the peel
- The same thing with the earth
- Every type of projection is trying to represent the earth on a flat surface in a different manner, and with a different purpose

Sources

- Borneman, Elizabeth. "Types of Map Projections". GeoLounge. 5 Jan 2015. Web. Accessed on 16 Jan 2019 from <https://www.geolounge.com/types-map-projections/>
- Buczkowski, Aleks. "These 5 tools will let you master map projections". Geoawesomeness. 14 Apr 2017. Web. Accessed on 16 Jan 2019 from <http://geoawesomeness.com/5-tools-will-let-master-map-projections>
- Esri, Inc. (March 14, 2019). "Raster is faster but vector is corrector". Teach with GIS: An Implementation Guide for Teachers, Schools, and Districts. Redlands, CA: Esri, Inc.
- File:Snow-cholera-map-1.jpg. (2018, October 25). *Wikimedia Commons, the free media repository*. Retrieved 14:41, February 13, 2019 from <https://commons.wikimedia.org/w/index.php?title=File:Snow-cholera-map-1.jpg&oldid=325384393>.
- Maps, Terrible (TerribleMaps). "This is actually in a textbook..(Glencoe Science: Biology, Chapter 5, Section 3.) Retweet if you see it. <https://t.co/k48MkRws9A>". 15 Jul 2018, 17:36 UTC. Tweet
- Monino, J.-L., & Sedkaoui, S. (2016). *Big data, open data and data development* (Ser. Smart innovation set, volume 3). ISTE, Ltd: London, UK. <https://onlinelibrary-wiley-com.proxy3.library.mcgill.ca/doi/pdf/10.1002/9781119285199.ch2>
- My13InchDuck. "Nutella making a classic mistake". Reddit, Inc. 23 Jul 2017, 05:36:29 GMT. Web. Accessed on 17 Jan 2019 from https://www.reddit.com/r/MapsWithoutNZ/comments/6p0i1f/nutella_making_a_classic_mistake/
- OpalsandOranges. "IKEA is conspiring against us". Reddit, Inc. 03 Jan 2019, 07:20:39 GMT. Web. Accessed on 16 January 2019 from https://www.reddit.com/r/MapsWithoutNZ/comments/ac57s9/ikea_is_conspiring_against_us
- Smulan77. Prince Edward Island - 2003 (11). Flickr (photography social media). Retrieved October 20, 2020 from <https://www.flickr.com/photos/smulan77/3358139277/in/photostream/>
- Thecasualcaribou. "Bear location map North America". Reddit, Inc. 15 Jan 2019, 08:56:35 GMT. Web. Accessed on 16 January 2019 from https://www.reddit.com/r/MapPorn/comments/ag8qc4/bear_location_map_north_america
- Trimble, L. (2017). Finding Canadian Statistics & Data. Presentation for graduated student library assistants, Map & Data Library, University of Toronto.
- Wessels, B., Finn, R., Linde, P., Mazzetti, P., Nativi, S., Riley, S., Smallwood et al. (2014) 'Issues in the Development of Open Access to Research Data', Prometheus Critical Studies in Innovation, 32:2, 49–66.
- Wessels, B., Sveinsdottir, T., Finn, R., & Wadhwa, K. (2017). *Open Data and the Knowledge Society*. Amsterdam: Amsterdam University Press. Retrieved October 20, 2020, from <https://openresearchlibrary.org>
- Yeet69Lasagna. "Where on the planet we can see the human footprint and which areas are still untouched? Brighter values represent higher pressure on the environment.". Reddit, Inc. 15 Jan 2019, 09:36:53 GMT. Web. Accessed on 16 Jan 2019 from https://www.reddit.com/r/MapPorn/comments/ag93ws/where_on_the_planet_we_can_see_the_human/

Questions?

- martin.chandler@mcgill.ca