

INFO 6681 Geospatial Information
Management | November 18, 2015

<http://hdl.handle.net/10222/64631>

Geographic Information Management and Archives

Creighton Barrett

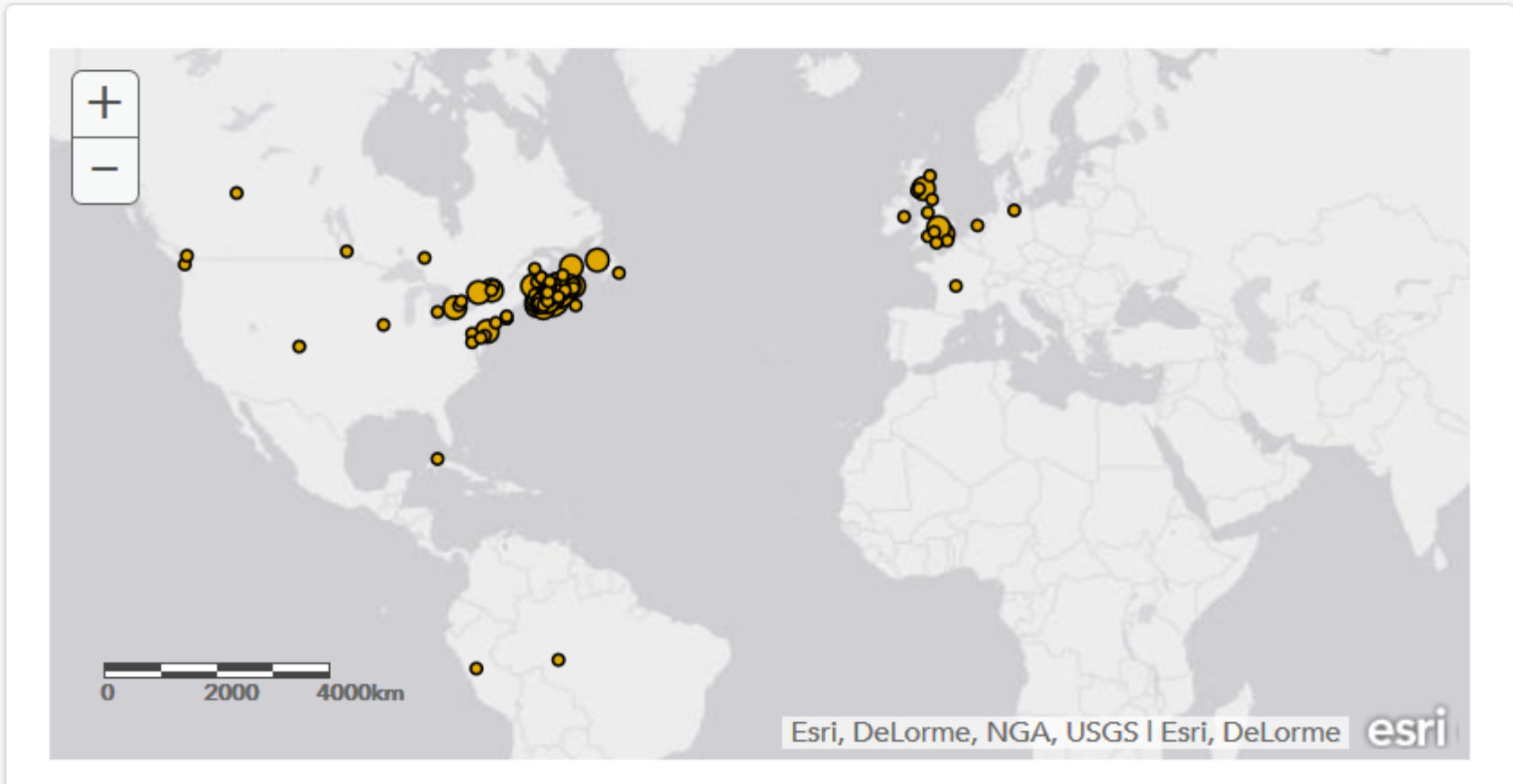


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AGENDA

- Dalhousie Archives Catalogue and Online Collections
- Finding aid migration project
- “Mapping” of finding aids in ArcServer
- Challenges, next steps, etc.

Search the Archives Catalogue and Online Collections



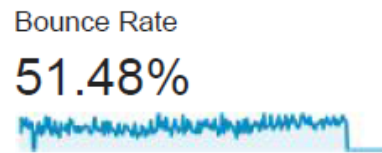
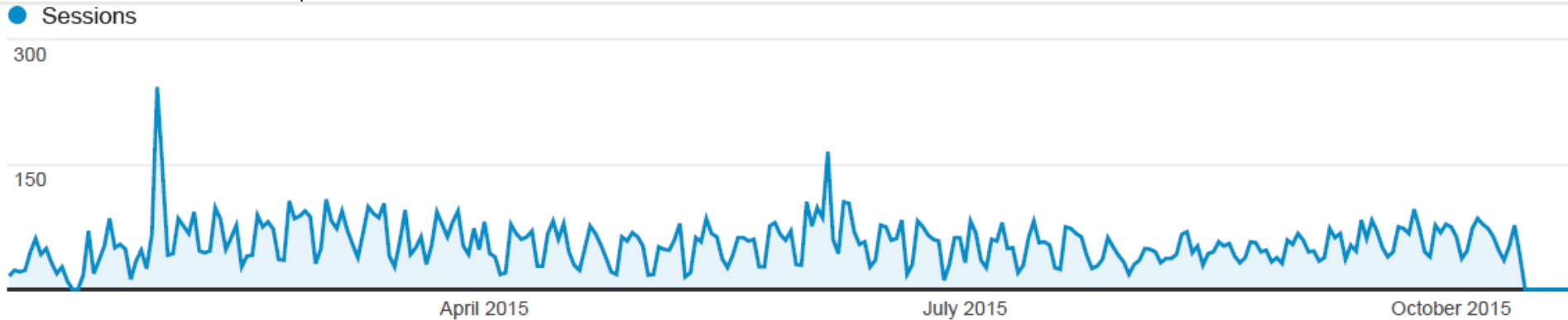
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visits
y Phorum
Archives
ese fonds

ARCHIVES CATALOGUE STATS (as of November 16, 2015)

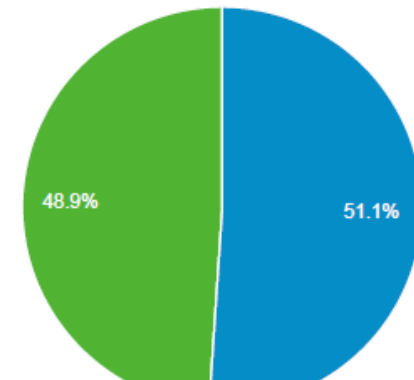
- 167,494 archival descriptions
- 3,256 authority records
- 686 subject headings
- 491 geographic headings

ca. 250,000
descriptions by
January 2016

ARCHIVES CATALOGUE STATS



■ Returning Visitor ■ New Visitor



1970-2000s

- Paper-based finding aids

2000s-December 2010

- MS Access >> HTML finding aids
- Import legacy EAD data into Archivists' Toolkit

January 2011-December 2014

- Launch Archivists' Toolkit
- Archivists' Toolkit >> HTML finding aids
- **Create subject headings and authority records**
- Finding aids migration project (import into ATOM)

January 2015-

- Launch Archives Catalogue and Online Collections
- Publish map in ArcGIS

ARCHIVISTS' TOOLKIT

SUBJECT HEADINGS

Subjects		
921 Record(s) found for search "list all"		
Subject Term	Type	Source
Aberdeen (Scotland)	Geographic Name (651)	Library of Congress Subject
Acadians--Songs and music	Topical Term (650)	Library of Congress Subject
Account books	Topical Term (650)	Library of Congress Subject
Accounts payable	Topical Term (650)	Library of Congress Subject
Accounts receivable	Topical Term (650)	Library of Congress Subject
Actors and actresses	Topical Term (650)	Library of Congress Subject
Actuaries--Canada	Topical Term (650)	Library of Congress Subject
Adjutants	Topical Term (650)	Library of Congress Subject
Advertising fliers	Topical Term (650)	Library of Congress Subject
Advertising--Beer	Topical Term (650)	Library of Congress Subject
Advocate (N.S.)	Geographic Name (651)	Library of Congress Subject
Aerial photography	Topical Term (650)	Library of Congress Subject
Africville (Halifax, N.S.)	Geographic Name (651)	Library of Congress Subject
Agriculture--Nova Scotia	Topical Term (650)	Library of Congress Subject
Agriculture--Prince Edward Island	Topical Term (650)	Library of Congress Subject
Alberta	Geographic Name (651)	Library of Congress Subject
Alternative spaces (Arts facilities)--Canada	Topical Term (650)	Library of Congress Subject

ARCHIVISTS' TOOLKIT

SUBJECT HEADINGS

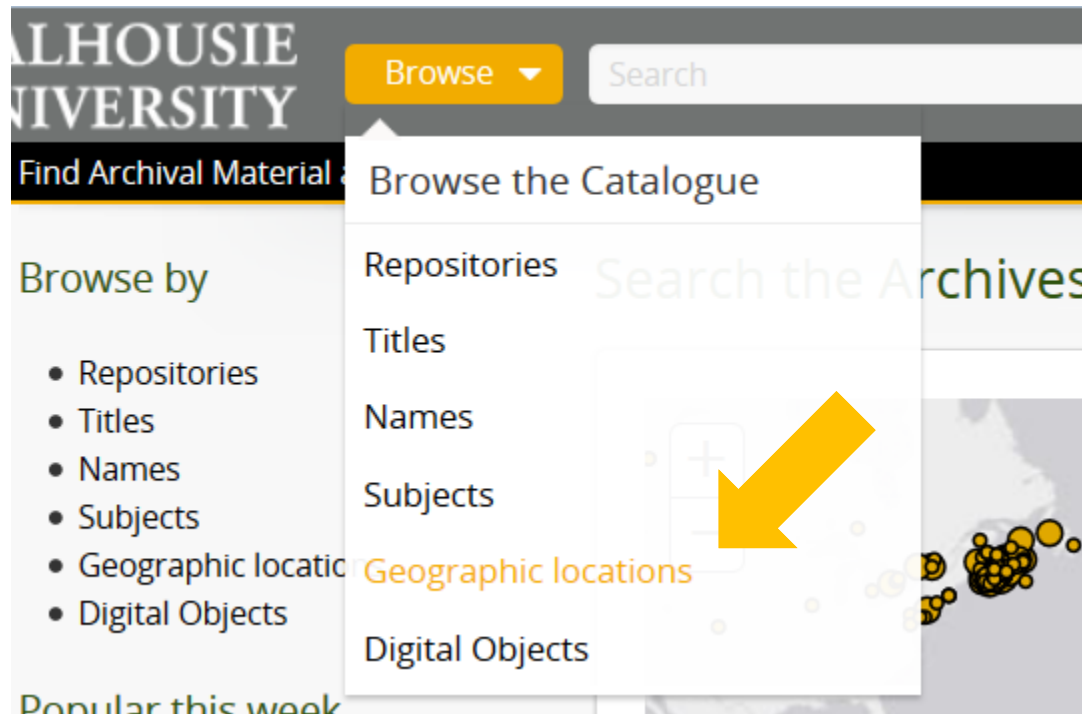
Subjects		
921 Record(s) found for search "list all"		
Subject Term	Type ▲	Source
Textual record	Genre / Form (655)	Rules for Archival Descrip
Architectural drawing	Genre / Form (655)	Rules for Archival Descrip
Graphic material	Genre / Form (655)	Rules for Archival Descrip
Moving images	Genre / Form (655)	Rules for Archival Descrip
Multiple media	Genre / Form (655)	Rules for Archival Descrip
Object	Genre / Form (655)	Rules for Archival Descrip
Sound recording	Genre / Form (655)	Rules for Archival Descrip
Technical drawing	Genre / Form (655)	Rules for Archival Descrip
Cartographic material	Genre / Form (655)	Rules for Archival Descrip
Textual record (electronic)	Genre / Form (655)	Rules for Archival Descrip
Textual record (microform)	Genre / Form (655)	Rules for Archival Descrip
Graphic material (electronic)	Genre / Form (655)	Rules for Archival Descrip
Moving images (electronic)	Genre / Form (655)	Rules for Archival Descrip
Sound recording (electronic)	Genre / Form (655)	Rules for Archival Descrip
Lunenburg (N.S.)	Geographic Name (651)	Library of Congress Subj
Louisbourg (N.S.)--History--Siege, 1758	Geographic Name (651)	Library of Congress Subj
Atlantic Provinces	Geographic Name (651)	Library of Congress Subj
Louisbourg (N.S.)	Geographic Name (651)	Library of Congress Subj
Granville Street (Halifax, N.S.)	Geographic Name (651)	Library of Congress Subj
Amherst (N.S.)	Geographic Name (651)	Library of Congress Subj

FINDING AIDS MIGRATION PROJECT

- Extensive internal data cleaning
- 625+ multi-level EAD XML archival descriptions **exported** from Archivists' Toolkit
- Internal development of custom XSLT to prepare XML files for **import** into AtoM
- Artefactual Systems did **final data migration**

ATOM TAXONOMIES

- Taxonomies were “rebuilt” based on EAD <controlaccess> headings



ATOM TAXONOMIES

EAD <CONTROLACCESS> ELEMENT	ATOM TAXONOMY
<corpname> or <persname> or <famname>	Authority record
<subject>	Subject heading
<geogname>	Geographic heading
<genreform>	general material designation [GMD]

Search filters

Repository

Top-level descriptions

General material designation

Media type

Digital object available

Level of description

Advanced search

Narrow down your search results.

Search

in

Any field

Any field

Title

Archival history

Scope and content

Extent and medium

Subject access points

Name access points

Place access points

Identifier

Reference code

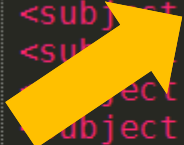
WE WORKED REALLY HARD TO MAKE THIS WORK...

Access Points				
RAD	Description	Archivist Toolkit Data Entry Form	EAD	AT EAD EXPORT
21.1 and 21.2 Access points at the fonds or collection level	In a multilevel description, make an access point(s) for the name(s) of the creator of the unit being described at the highest level (e.g., fonds, series, or collection). Make an access point(s) for the name(s) of the creator of a series if the name(s) of the creator of the series is different from the name of the creator of the unit at the highest level.	Add Name Link (Function="Creator" ; Role="Originator")	<origination><persname corpname famname name role="Originator" rules="RAD">	<origination label="Originator" role="Originator"><persname corpname famname name role="Originator" rules="RAD">
21.3A Provenance access points at the series level	Make an access point for the name of the creator identified in the title proper.	Add Name Link (Function="Creator" ; Role="Originator")	<origination><persname corpname famname name role="Originator" rules="RAD">	<origination label="Originator" role="Originator"><persname corpname famname name role="Originator" rules="RAD">
Author		Add	<controlaccess><persname corpname famname name role="author" rules="RAD">	
Other Non-Subject			<controlaccess><persname corpname famname name role="xxx">	

AND THERE WERE PROBLEMS...

- AtoM lost “source” attribute in authority records, subject headings, genre/form statements, and geographic place names

```
<controlaccess>
  <subject source="lcsh">Business records</subject>
  <subject source="lcsh">General stores</subject>
  <subject source="lcsh">Lumber</subject>
  <subject source="lcsh">Schooners</subject>
  <subject source="lcsh">Shipbuilding </subject>
  <genreform source="rad">Textual record</genreform>
  <subject source="lcsh">Timber</subject>
  <geogname source="lcsh">Weymouth (N.S.)</geogname>
</controlaccess>
```




- Consider internal usage vs. external usage
- Move on...


BUILD FINDING AIDS MAP




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CHECK GEOGRAPHIC PLACE NAMES

Browse Places: 


 Showing 961 results
Places

All labels 

PLACES

- [Picton?]
- Abbotsford (B.C.)
- Abercrombie (N.S.)
- Aberdeen (N.S.)
- Aberdeen (Scotland)
- Accra (Ghana)
- Addington Forks (N.S.)
- Addis Ababa (Ethiopia)
- Africa
- Afton (N.S.)
- Ahmadābād (India)
- Airlie (Va.)
- ...

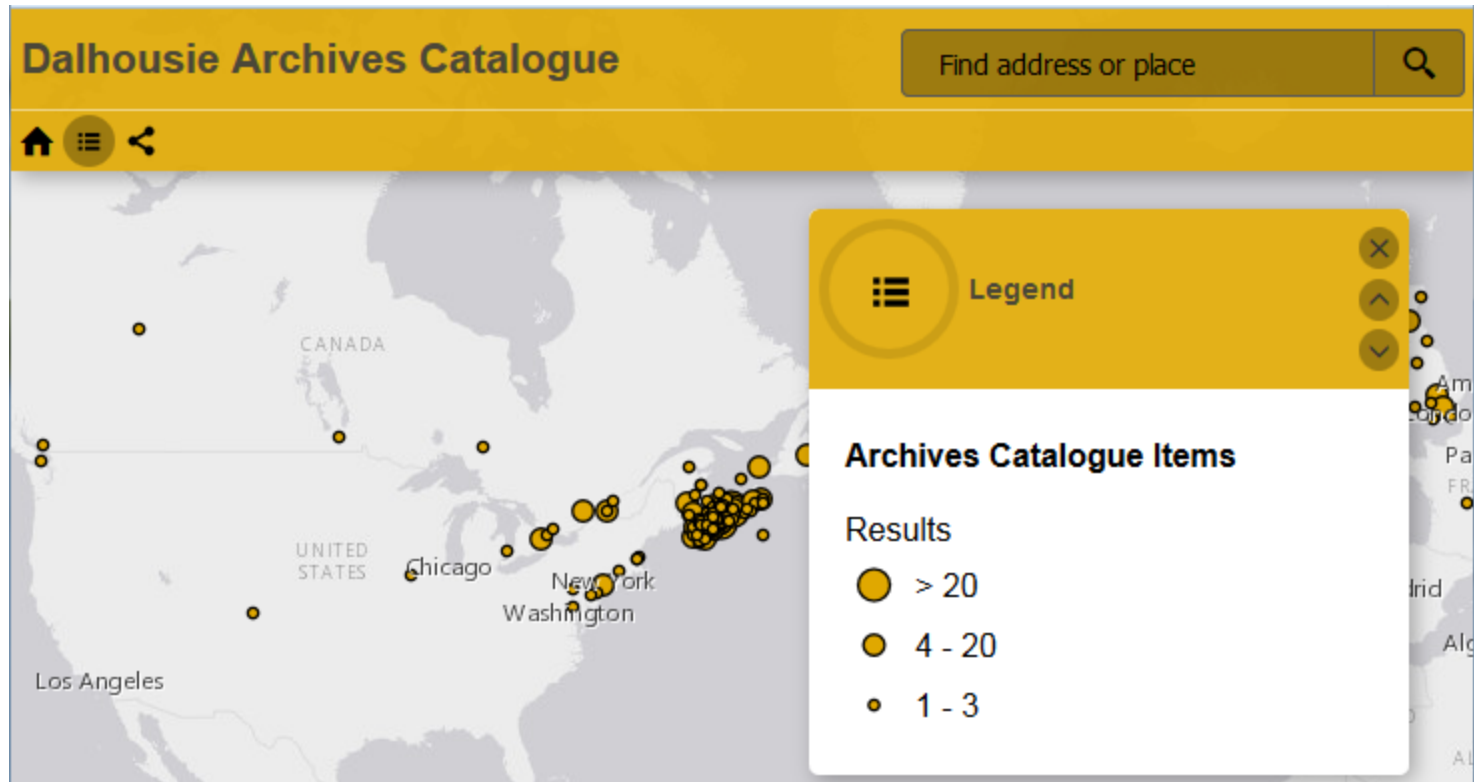
Places term	Scope note	Result
Abbotsford (B.C.)		1
Abercrombie (N.S.)		31
Aberdeen (N.S.)		4
Aberdeen (Scotland)		2
Accra (Ghana)		1
Addington Forks (N.S.)		3
Addis Ababa (Ethiopia)		1
Advocate (N.S.)		1
Africa		1



CREATE MAP DATA

- Geographic location name
- Number of results
- URL to geographic heading
- **Coordinates**

TEST PRESENTATION OPTIONS



EMBED MAP WITH <IFRAME>

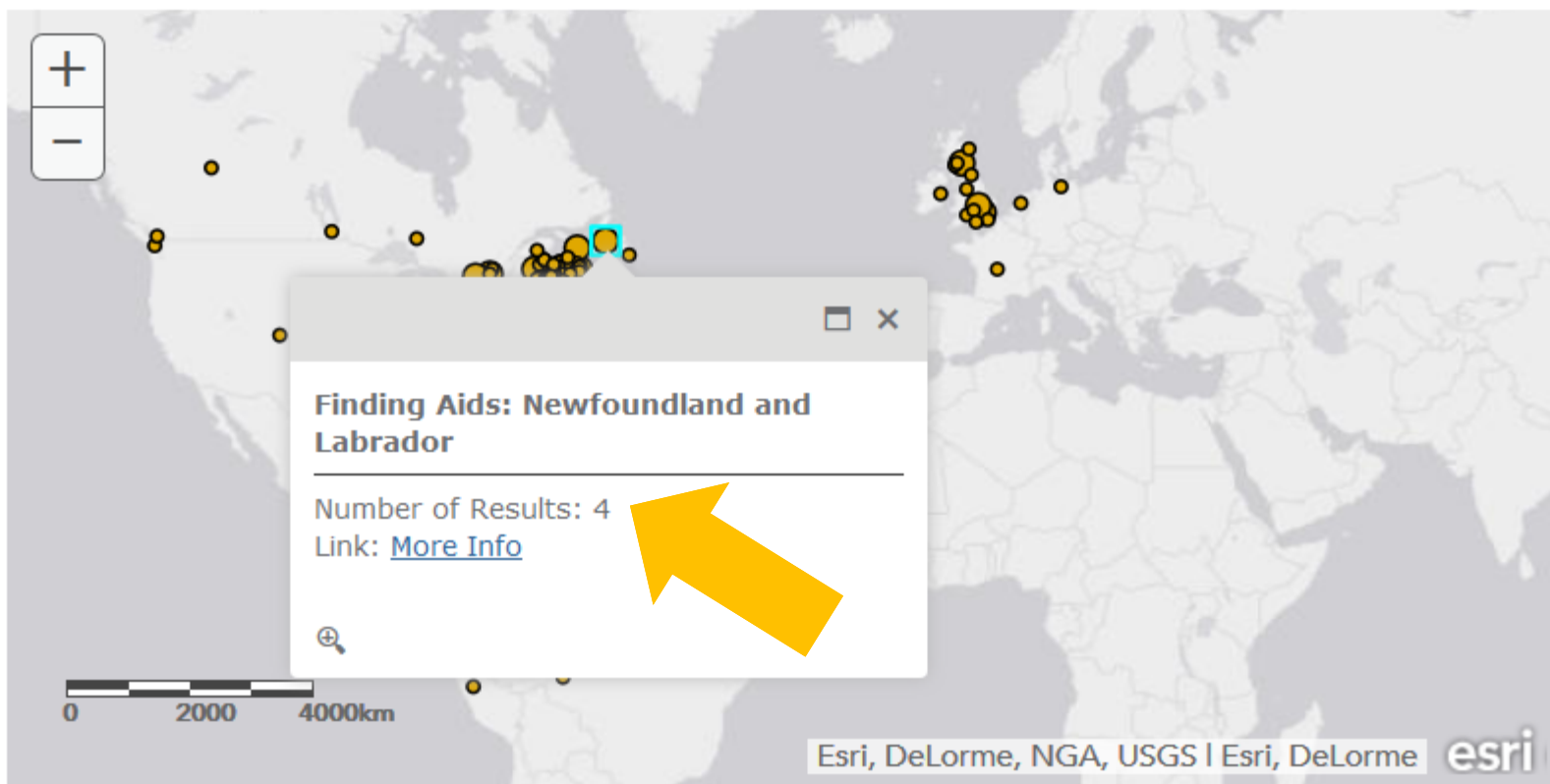
The screenshot shows the Dalhousie Archives Catalogue interface. At the top, there is a yellow header with the text "Dalhousie Archives Catalogue" and a search bar containing "Find address or place". Below the header is a navigation bar with a home icon, a menu icon, and a back icon. The main content is a map of North America with several yellow circular markers of varying sizes. A share dialog is open on the right side of the map, featuring a yellow header with a share icon and the word "Share". The dialog contains the following elements:

- A "Share this map" section with icons for Facebook, Twitter, Google+, Email, and a link icon.
- A checkbox labeled "Share current map extent" which is currently unchecked.
- A "Map Link" section with a text input field containing the URL `http://arcg.is/1Q1zz3q`.
- An "Embed Map" section with a text area containing the following code:

```
<iframe width='100%'  
height='640px'  
src='http://dalspatial.maps
```
- A "Size (width/height):" section with a dropdown menu set to "100% x 640px".

The "Embed Map" section and its associated code are circled in yellow in the original image.

Search the Archives Catalogue and Online Collections



ISSUE #1: <IFRAME> IS NOT “RESPONSIVE”

The screenshot shows the Dalhousie University Archives website. The header includes the Dalhousie University logo and a search bar. Below the header, there are navigation links and a search bar. The main content area features a map of the world with several yellow location markers. A red box highlights the following code snippet: `<center> <iframe width="800" height="400" frameborder="0">`. A yellow arrow points from this code to the map area.

The screenshot shows the Dal Archives website. The header includes the Dal Archives logo and a search bar. Below the header, there are navigation links and a search bar. The main content area features a map of the world with several yellow location markers. A red box highlights the following code snippet: `<center> <iframe width="100%" height="400" frameborder="0">`. A yellow arrow points from this code to the map area.

ISSUE #1: <IFRAME> IS NOT “RESPONSIVE”

The Markup For Embedded Content [↗](#)



Services such as YouTube provide code that you can copy and paste into your own website to embed content. I tend to recommend to my clients that they host video with YouTube because it will save them server space and, regardless of the user’s browser or device, YouTube will display the video correctly. The two main ways to embed video on a website are the HTML5 `video` element, which doesn’t work in legacy versions of Internet Explorer, and Flash, which doesn’t work on iOS devices and isn’t standards-compliant.

When you embed content from an external source, the code will include an `iframe`:

```
<iframe src="http://www.youtube.com/embed/4aQwT3n2c1Q" height="315" width="560">
```

This `iframe` enables external content to be displayed on your website,

ISSUE #2: UPDATES!

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Browse ▾

Search

Find Archival Material at the Dalhousie University Libraries

Treeview List Search

PLACES

▼ Canada

New Brunswick

Newfoundland and Labrador

▶ Nova Scotia

SUBJECT

All

Personal archives 3

Newfoundland and Labrador

Canada » Newfoundland and Labrador

Taxonomy Places

Hierarchical terms Newfoundland and Labrador: BT Canada

7 Results for Newfoundland and Labrador

Sort by: Alphabetic ▾

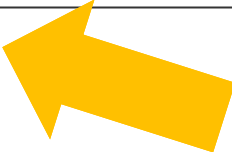
7 results directly related [Exclude narrower terms](#)

Atlantic Opera Society fonds

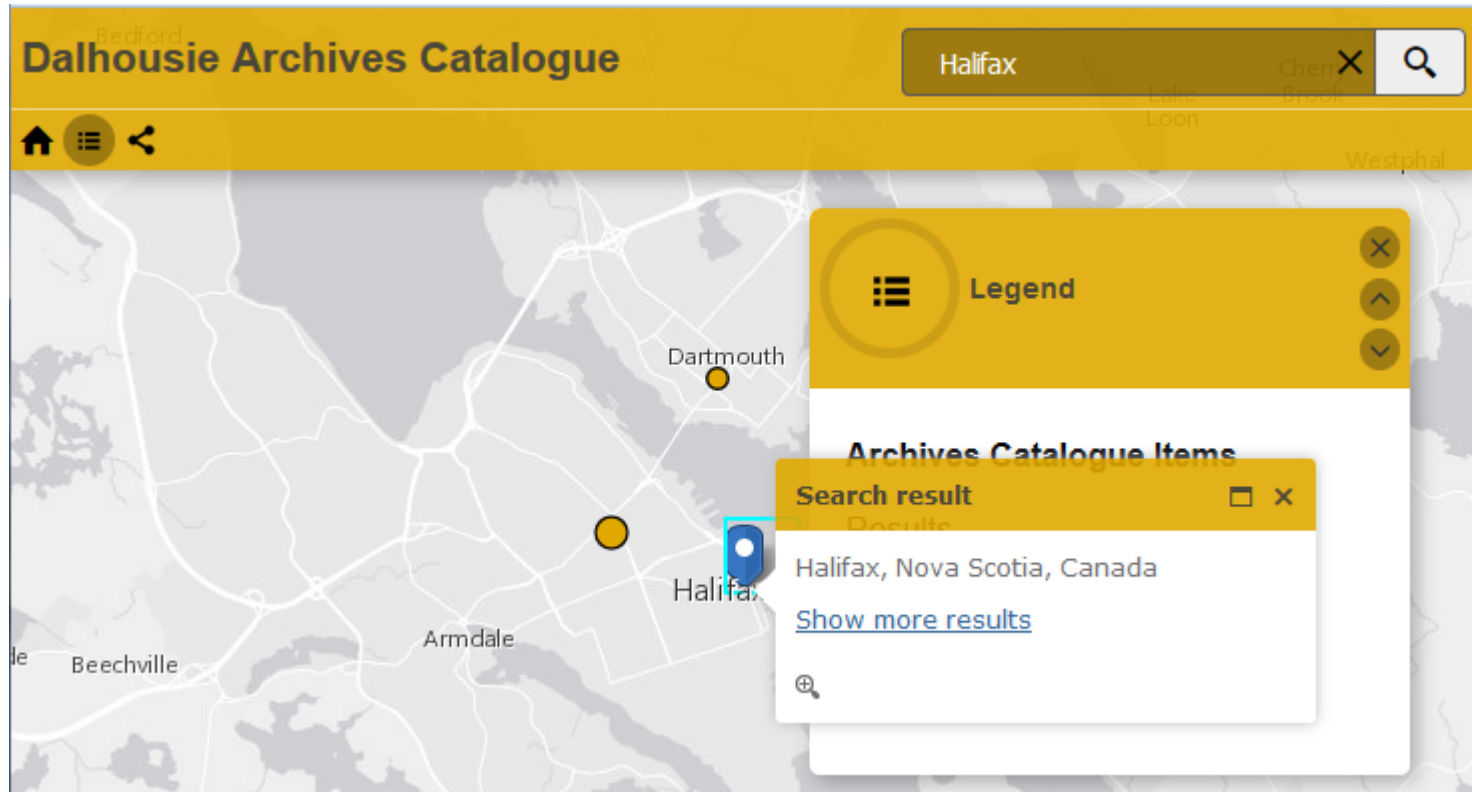
Finding Aids: Newfoundland and Labrador

Number of Results: 4

Link: [More Info](#)



ISSUE #3: MAP SEARCH RESULTS VS. PLOTS



ISSUE #4: IDENTIFYING GEOGRAPHIC LOCATIONS

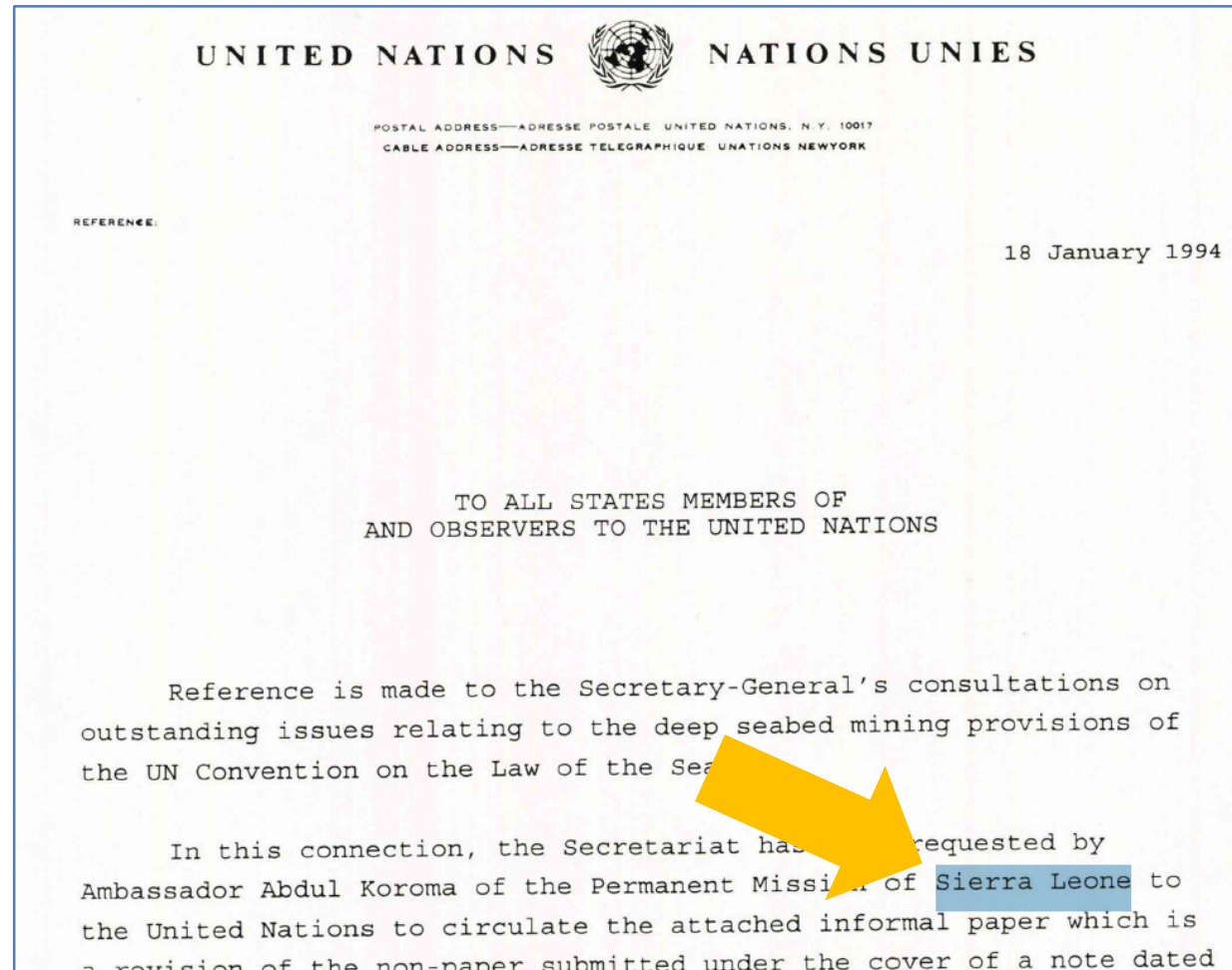


MS-2-781, PB Box 16, Folder 70 -
Photograph of two women in front of
rock arch along the Bay of Fundy



David K. Joyce Minerals: "This is a rock arch that we
came upon, unexpectedly, when we rounded a
corner in the bluffs."

ISSUE #5: SELECTING GEOGRAPHIC HEADINGS



MS-2-744, Box 323, Folder 18 - Boat paper and nonpaper : [informal discussion documents]

NEXT STEP: STRUCTURE GEOGRAPHIC HEADINGS

Treeview List Search

PLACES

- ▼ Canada
- ▼ Nova Scotia
 - Cape Breton Island (N.S.)
 - Debert (N.S.)
 - Louisbourg (N.S.)
 - Osborne (N.S.)

Canada » Nova Scotia

Taxonomy
Source note(s)
Hierarchical terms


Places

- Library of Congress Subject Headings

Nova Scotia: BT Canada

Nova Scotia: • NT Cape Breton Island (N.S.)
• NT Debert (N.S.)
• NT Louisbourg (N.S.)
• NT Osborne (N.S.)
• NT Port Royal (N.S.)

19 Results for Nova Scotia



NEXT STEP: ADD COORDINATES

Treeview List Search

PLACES

- ▼ Japan
 - Tokyo (Japan)

SUBJECT ^

All


LANGUAGE ^

- Unique records 5
- English 5

Tokyo (Japan)

Japan » Tokyo (Japan)

Taxonomy	Places
Code	35.6833° N, 139.6833° E

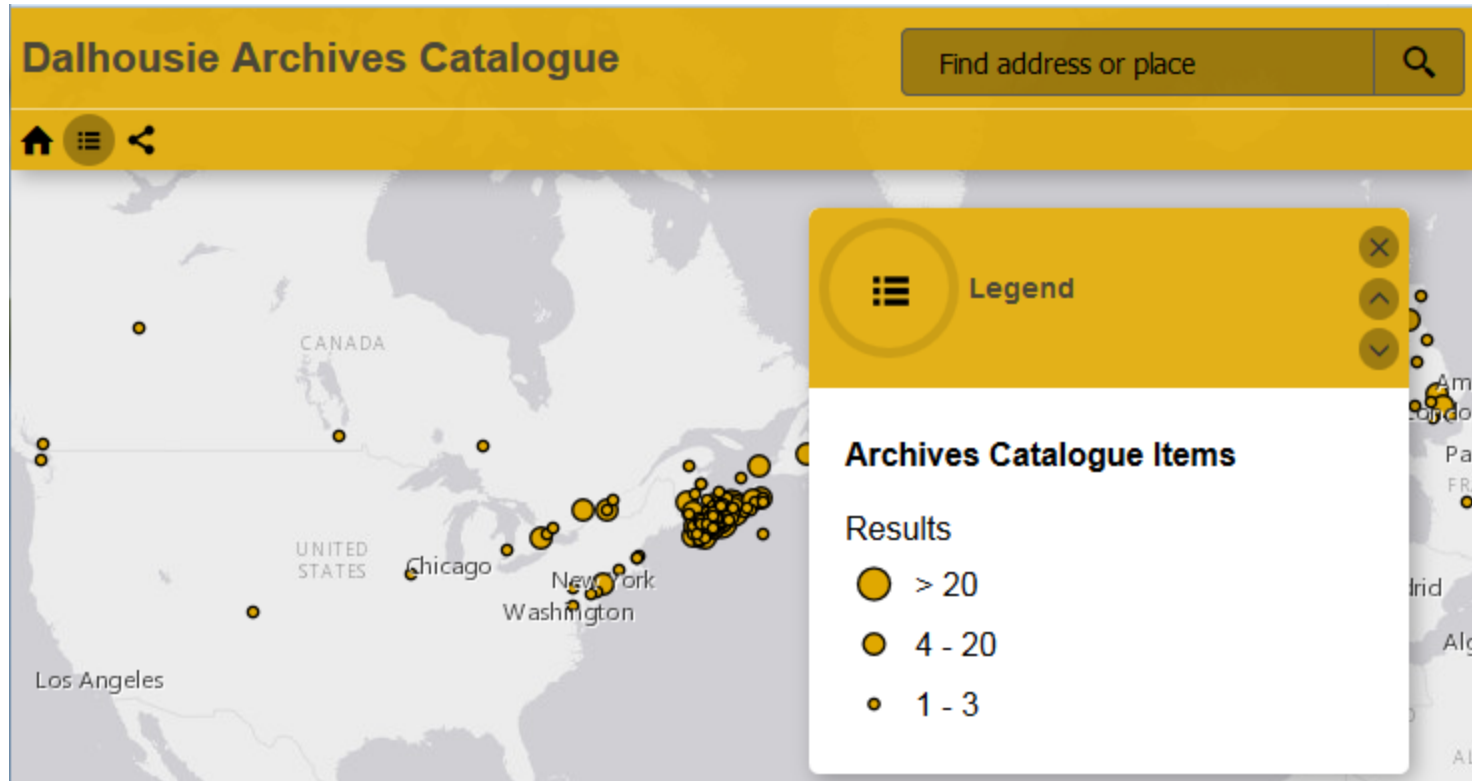


Source note(s) • Library of Congress Subject Headings

Hierarchical terms Tokyo (Japan): [BT Japan](#)

5 Results for Tokyo (Japan)

NEXT STEP: UPDATE MAP



NEXT STEP: AUTOMATION?

```
- <rdf:RDF>
  - <skos:ConceptScheme rdf:about="http://findingaids.library.dal.ca/places">
    <dc:title xml:lang="ca">Llocs</dc:title>
    <dc:title xml:lang="de">Orte</dc:title>
    <dc:title xml:lang="en">Places</dc:title>
    <dc:title xml:lang="es">Lugares</dc:title>
    <dc:title xml:lang="fa">مکان ها</dc:title>
    <dc:title xml:lang="fr">Lieux</dc:title>
    <dc:title xml:lang="gl">Lugares</dc:title>
    <dc:title xml:lang="id">Tempat</dc:title>
    <dc:title xml:lang="it">Luoghi</dc:title>
    <dc:title xml:lang="ja">場所</dc:title>
    <dc:title xml:lang="ka">ადგილები</dc:title>
    <dc:title xml:lang="ko">장소</dc:title>
    <dc:title xml:lang="nl">Plaatsen</dc:title>
    <dc:title xml:lang="pl">Miejsca</dc:title>
    <dc:title xml:lang="pt">locais</dc:title>
    <dc:title xml:lang="pt_BR">Locais</dc:title>
    <dc:title xml:lang="sl">Kraji</dc:title>
    <dc:title xml:lang="th">สถานที่</dc:title>
    <skos:hasTopConcept rdf:resource="http://findingaids.library.dal.ca/addis-ababa-ethiopia"/>
  </skos:ConceptScheme>
  - <skos:Concept rdf:about="http://findingaids.library.dal.ca/addis-ababa-ethiopia">
    <skos:prefLabel xml:lang="en">Addis Ababa (Ethiopia)</skos:prefLabel>
    <skos:inScheme rdf:resource="http://findingaids.library.dal.ca/places"/>
  </skos:Concept>
</rdf:RDF>
```

IMAGE CREDITS

Slide 14: Screenshot of Dal Archives XML provided by Dal Gillean of Artefactual Systems

Slide 25: Photograph of two women in front of rock arch along the Bay of Fundy, MS-2-781, PB Box 16, Folder 70, Byron Ulric Hatfield Photograph Collection:

<http://findingaids-stage.library.dal.ca/photograph-of-two-women-in-front-of-rock-arch-along-bay-of-fundy>

Slide 25: Photograph of rock arch, David K. Joyce Minerals website:

http://www.davidkjoyceminerals.com/pagefiles/activities_detail.asp?ProdID=arch