May 9, 2014

Cartographic Materials Metadata Transfer Between Integrated Library Systems

Leanne Olson, *Western University*

Cartographic Materials Metadata Transfer Between ILS

LEANNE OLSON - 9 MAY 2014

Introduction

I come from the land of the ice and snow...

Leanne Olson

Metadata Management Librarian
(and map junkie...)

Western Libraries
London, Ontario, Canada
lolson3@uwo.ca

Western University London, Ontario, Canada
www.uwo.ca

Library Information Resources Management

About Western Libraries

$13 million annual acquisitions budget

11 million items

60,000 records added annually

8 physical service locations (plus 3 affiliates)

Serving approx. 36,000 FTE

Background

MEET THE NEWEST MEMBER OF WESTERN LIBRARIES, THE MAP AND DATA CENTRE

The Map and Data Centre

Close to a quarter of a million paper maps

Over 50,000 paper air photos of London and Southern Ontario

Canadian Fire Insurance Plans

Large quantity of geospatial data at various scales from very detailed and local data to global coverage
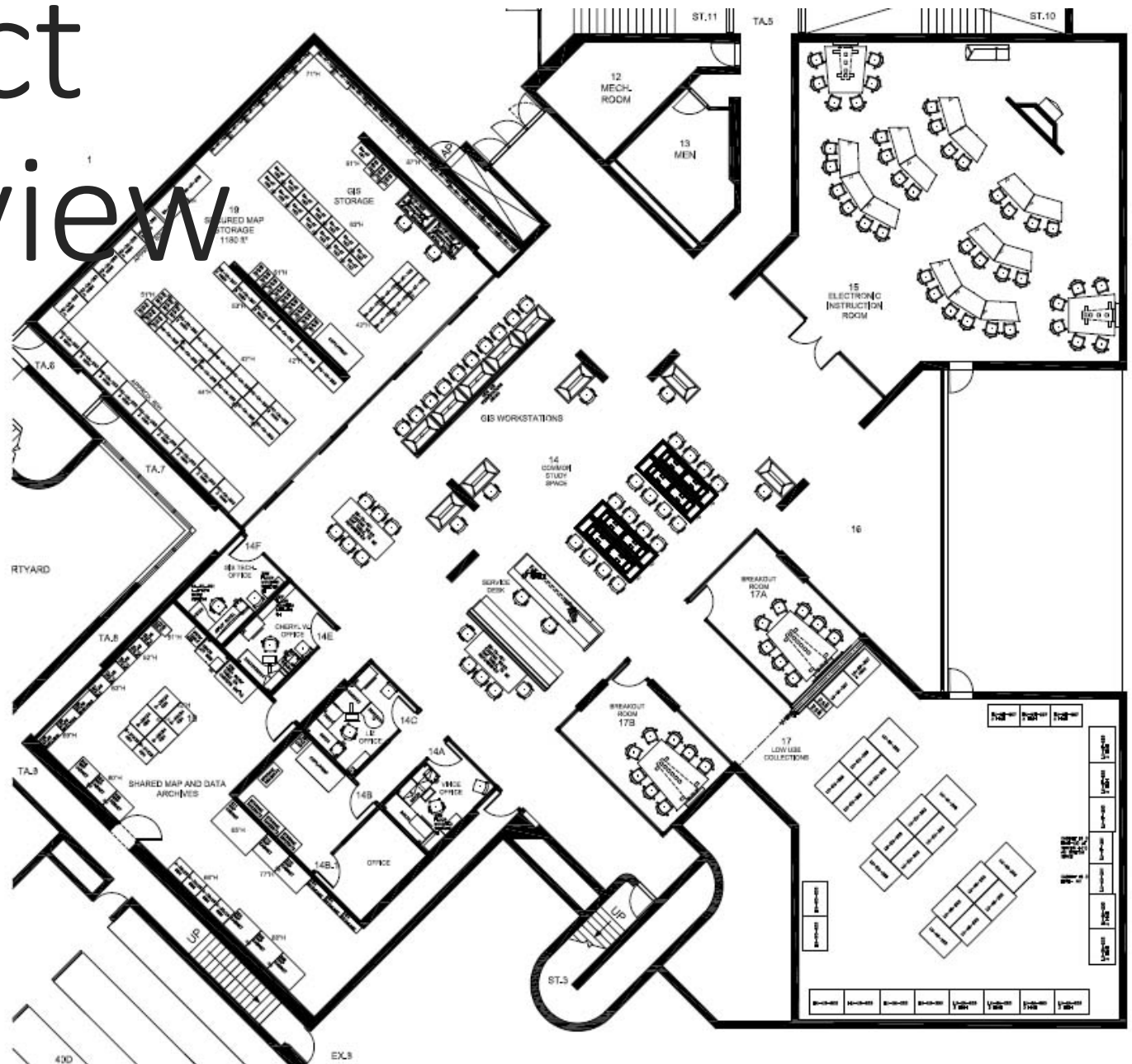
Items do not circulate

The Big Move

- Formerly part of the Faculty of Social Sciences

- Joined Western Libraries in 2011

- Reopened in Weldon Library, Sept. 23, 2013

- Entirely separate library
  catalogue in InMagic

Project Overview

Project Planning

Location physically moved across campus

Catalogue virtually moved from InMagic to the Shared Library Catalogue (Millennium/Sierra)

We all need somebody to lean on...

Ruth Wallace & Cary Daniel – Knowledge Management Librarians

Cheryl Woods – Map Librarian

Vince Gray – Data Librarian

Barb St. John – Workflow Coordinator

Paul Hamilton – ILS Systems Administrator

Karen Marshall – Assistant University Librarian, Information Resources and Access

Cheryl Martin – Acting Head, Metadata Access

Thank you Rayanne Tippert and Laurena Storey for the photos of Western Libraries throughout the presentation.

Migration Overview

FROM INMAGIC TO SIERRA…JUST LIKE MAGIC?

Migration Overview

Nearly 30,000 records representing 200,000 items

Three types of records: sheet maps, atlases, and topographic series

Migrated in three batches

Run through changes in MS Excel, then MARCEdit, then Millennium/Sierra

So...why do all this work?

Serge A. Sauer Map Library

The University of Western Ontario

Located in the Social Science Centre, Room 1051. The Map Library is open to the public.

Online Catalogue - *Search: Atlases, Sheet or Topographic Maps*

Search Tip: For the most efficient search, begin with the Any Word category. Narrow down the search results by indicating a Geographic Area. For further tips on searching the catalogue click here.

Any Word		*eg. Land Use*
Title		*eg. Florida State Road Map*
Geographic Area		Browse Choices
Publisher		*eg. MapArt*
Year of Publication		*eg. 2008*
Author, Thesis Advisor, Editor		*eg. Smith*
Record Type	Any	

Submit Query   Reset

Looks pretty good, right?

Title Florida State Road Map

Material Type Sheet map

Publication Info Department of Transportation, 2004

Description Colour; in English; 1 sheet(s).

Geographic Area(s) NORTH AMERICA / UNITED STATES OF AMERICA (USA) / FLORIDA

Theme(s) Transportation

Location* Copy 1 – MC – C47:D03

ID / Barcode(s) 15986 / 1598601

Retention Policy Indefinite

Loan Policy Library use only

Date Cataloged 8/3/2010

*Location Codes:

MC - Located in the main Map Collection
TS - Located in Time Series room 1051D or 1201, ask a map library staff member for help with these items
C# - Cabinet number
D# - Drawer number
VF - Stored in a Vertical Filing cabinet
OS - Atlas stored on Open Shelf
WS - Atlas stored on a Wooden Shelves on top of the main map cabinets
Stacks - Thesis shelf

Look again...

Records use a proprietary encoding standard, not MARC21

Records were not catalogued in AACR2, RDA, or anything resembling what's in our catalogue

It's wonderful cataloguing that worked very well for MDC users--but won't for Western Libraries

Result number **1** of 49 | New Search | Print Record | Map Library Home

Title	Florida State Road Map
Material Type	Sheet map
Publication Info	Department of Transportation, 2004
Description	Colour; in English; 1 sheet(s).
Geographic Area(s)	NORTH AMERICA / UNITED STATES OF AMERICA (USA) / FLORIDA
Theme(s)	Transportation
Location*	Copy 1 – MC – C47:D03
ID / Barcode(s)	15986 / 1598601
Retention Policy	Indefinite
Loan Policy	Library use only
Date Cataloged	8/3/2010

Match up elements to AACR2 & encode in MARC21

*Location Codes:

MC - Located in the main Map Collection
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Decisions, decisions…

Focus on fields most valuable to users: title, scale, year, geographic and thematic subjects, location

What about cataloguing rules? Include fields mandatory to AACR2…but wait, some of them don't exist in the records!!

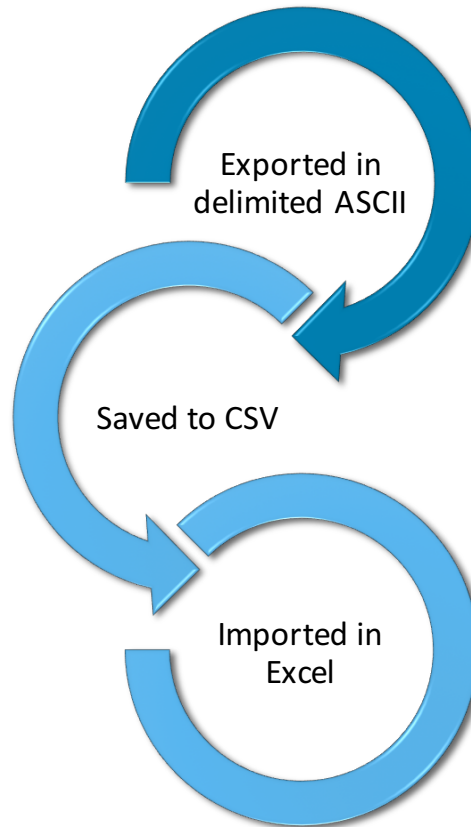Convert existing fields that should be authorized headings, to match our database (geographic headings)

MS Excel

MIGRATING THE RECORDS...

2013.08.06

From InMagic to Excel

Exported in delimited ASCII

Saved to CSV

Imported in Excel

Atlas records in Excel

	A	D	E	G	J	M	N	BC	BE	BF	BG	BH	BI	BJ	BK	
1	ID	Copy Mana	Title	Author	Edition	Publisher	Pub Date	Bar Code	Record Created	Geograph	Series Co	Percent o	Scale	Mapthem	Mapdescr	Dat
108	7601	1 - MC	Tabula Imperii Romani. Cyre	Society of Antiqu			1954	760101	2004-03-08	AFRICA	LIBYA			1:1,000,00	Historical	Colour	
109	7637	1 - MC	Morocco			Cartographia	2001	763701	2004-03-08	AFRICA	MOROCCO			1:1,000,00	Transport	Colour	
110	7676	1 - MC	Walker Maps of 1849 & 1852	L.M. Buttery, Old			1980	767601	2004-03-08	NORTH AMERICA	UNITED STATES OF AME	Historical	Black and	184
111	7712	1 - MC	Mauritius - Cargados Carajos	Ordnance Survey			1986	771201	2004-03-08	AFRICA	M	OSD 429P		1:60,000	Land Cove	Colour	
112	7748	1 - MC	Zambia		2	ITMB Publishing	2000	774801	2004-04-08	AFRICA	ZAMBIA			1:1,500,00	Physical	F	Colour	
113	7784	1 - Mc	Geologic Map of Wisconsin	Wisconsin Geolo	1965 Repr	778401	2004-04-08	NORTH AMERICA	UNITED STAT	1:1,000,00	Geology		Colour	
114	7820	1 - MC	El Salvador	CIA			1980	782001	2004-05-08	CENTRAL AMERICA	EL SALVAD	1:750,000	Political	1	Colour	
115	7856	1 - MC	Departamento de El Paraiso	Instituto Geogra	1989	785601	2004-06-08	CENTRAL AMERICA	HONDURA	1:230,000	Political	1	Colour	
116	7892	1 - MC	Des Moines Road Map	Rand McNally			1985	789201	2004-06-08	NORTH AMERICA	UNITED STATES OF AME	Transport	Colour	
117	7928	1 - MC	Carta Hidrological Aguas Sup	SPP			1978-1979	792801	2004-09-08	NORTH AMERICA	MEXICO		1:250,000	Natural Re	Colour	
118	7964	1 - MC	Chicago Road Map	Rand McNally			1954	796401	2004-09-08	NORTH AMERICA	UNITED STATES OF AME	Transport	Colour	
119	8000	1 - MC	Mapa Geologico de Cuba	Ministerio de Ind	1962	800001	2004-10-08	CENTRAL AMERICA	CARIBBEAN	1:1,000,00	Geology		Colour	
120	8036	1 - MC	South America	National Geogra	2007	803601	2004-10-08	SOUTH AMERICA			1:7 105 00	Political		Colour	
121	8073	1 - MC	US Virgin Islands	Philip Schneider	1993	807301	2004-11-08	CENTRAL AMERICA	CARIBBEAN	UNITED S	Physical	1	Colour	
122	8108	1 - MC	Amazon Basin	ITMB			1993, 1998	810801	81	2004-11-08	SOUTH AMERICA			1:4,000,00	Physical	F	Colour	199
123	8144	1 - MC	Eugene, OR	Rand McNally			2003	814401	2004-11-08	NORTH AMERICA	UNITED STATES OF AMERICA (USA)	OREGON	
124	8180	1 - MC	Oakland, CA	Rand McNally			2001	818001	2004-11-08	NORTH AMERICA	UNITED STATES OF AMERICA (USA)	CALIFORNIA	
125	8216	1 - MC	Tulsa, OK	Rand McNally			1997	821601	2004-11-08	NORTH AMERICA	UNITED STATES OF AMERICA (USA)	OKLAHOMA	
126	8253	1 - MC	Mapa Ecologico de la Repub	Argo Palerma Sa	1983	825301	2004-12-08	SOUTH AMERICA	ARGENTINA		Natural Re	Colour	
127	8289	1 - MC	Regiao Nordeste	Guia Quatro Rod	2000	828901	2004-12-08	SOUTH AMERICA	BRAZIL		1:2,400,00	Transport	Colour	
128	8325	1 - MC	Estado do Rio Grande do Sul	Cons. Nac. de Ge	1966	832501	2004-12-08	SOUTH AMERICA	BRAZIL		1:750,000	Physical	Colour	
129	8362	1 - MC	San Antonio	Unique Media In	1984-1985	836201	2004-08-12	NORTH AMERICA	UNITED STATES OF AME	Urban	Tra	Colour	
130	8400	1 - MC	[Political Divisions]	Direccion del Se	1992-2003	840001	12/08/04	SOUTH AMERICA	PARAGUAY		Political	1	Colour	

E	G	J	M	N	BC	BD	BE	BF	BG	BH	BI	M
Title	Author	Edition	Publisher	Pub Date	Bar Code	Record Created	Geograph	Series Coc	Percent o	Scale		M
Tabula Imperii Romani. Cyre	Society of Antiqu			1954	760101	2004-03-08	AFRICA|LIBYA			1:1,000,00	Hi
Morocco			Cartographia	2001	763701	2004-03-08	AFRICA|MOROCCO			1:1,000,00	Tr
Walker Maps of 1849 & 1852	L.M. Buttery, Old			1980	767601	2004-03-08	NORTH AMERICA|UNITED STATES OF AME				Hi
Mauritius - Cargados Carajos	Ordnance Survey			1986	771201	2004-03-08	AFRICA|M OSD 429P			1:60,000	La
Zambia		2	ITMB Publishing	2000	774801	2004-04-08	AFRICA|ZAMBIA			1:1,500,00	Pl
Geologic Map of Wisconsin	Wisconsin Geolo	1965 Repr			778401	2004-04-08	NORTH AMERICA|UNITED STAT			1:1,000,00	Ge
El Salvador	CIA			1980	782001	2004-05-08	CENTRAL AMERICA|EL SALVAD			1:750,000	Po
Departamento de El Paraiso	Instituto Geogra			1989	785601	2004-06-08	CENTRAL AMERICA|HONDURA!			1:230,000	Po
Des Moines Road Map	Rand McNally			1985	789201	2004-06-08	NORTH AMERICA|UNITED STATES OF AME				Tr
Carta Hidrological Aguas Suj	SPP			1978-1979	792801	2004-09-08	NORTH AMERICA|MEXICO			1:250,000	Na
Chicago Road Map	Rand McNally			1954	796401	2004-09-08	NORTH AMERICA|UNITED STATES OF AME				Tr
Mapa Geologico de Cuba	Ministerio de Inc			1962	800001	2004-10-08	CENTRAL AMERICA|CARIBBEAN			1:1,000,00	Ge
South America	National Geogra			2007	803601	2004-10-08	SOUTH AMERICA			1:7 105 00(	Po
US Virgin Islands	Philip Schneider			1993	807301	2004-11-08	CENTRAL AMERICA|CARIBBEAN|UNITED S				Pl
Amazon Basin	ITMB			1993, 1998	810801|81	2004-11-08	SOUTH AMERICA			1:4,000,00	Pl
Eugene, OR	Rand McNally			2003	814401	2004-11-08	NORTH AMERICA|UNITED STATES OF AMERI				
Oakland, CA	Rand McNally			2001	818001	2004-11-08	NORTH AMERICA|UNITED STATES OF AMERI				
Tulsa, OK	Rand McNally			1997	821601	2004-11-08	NORTH AMERICA|UNITED STATES OF AMERI				
Mapa Ecologico de la Repub	Argo Palerma Sa			1983	825301	2004-12-08	SOUTH AMERICA|ARGENTINA				Na
Regiao Nordeste	Guia Quatro Rod			2000	828901	2004-12-08	SOUTH AMERICA|BRAZIL			1:2,400,00	Tr
Estado do Rio Grande do Sul	Cons. Nac. de Ge			1966	832501	2004-12-08	SOUTH AMERICA|BRAZIL			1:750,000	Pl
San Antonio	Unique Media In			1984-1985	836201	2004-08-12	NORTH AMERICA|UNITED STATES OF AME				Ur
[Political Divisions]	Direccion del Se	1983-2003			849901	12/08/04	SOUTH AMERICA|PARAGUAY				P

Changes in Excel

- Sorted records and split into 3 sheets

- I took advantage of functions in Excel:

=PROPER(A1)

Changes case to title case…then fill down.

- Filled all blank cells with "Delete"
  - Select range to fill, then Find & Select – GoTo Special – Blanks; type "Delete" in one cell, hit CTRL-Enter to fill all blank cells

Geographical subject headings

Before:
- NORTH AMERICA|CANADA|ONTARIO|LONDON

Change in Excel to:
- London

Add in MarcEdit:
- London|vMaps

Global Update in Millennium to:
- London (Ont.)|vMaps

Changes in Excel

Fix subject headings using:

- Copy subject headings into a new sheet
- =RIGHT(A2,LEN(A2)-FIND("^^",SUBSTITUTE(A2,"|","^^",LEN(A2)-LEN(SUBSTITUTE(A2,"|","")))))
- Fill down
- For ones without a |, fill right (they will show up as "Value" until you do that)
- Copy back to main sheet, pasting "Values only" (not formulas)

MARCEdit

MIGRATING THE RECORDS…

2013.08.23

What is MARCEdit?

Developed by Terry Reese beginning in 1999

http://oregonstate.edu/~reeset/marcedit/html/

Free for anyone to download and use

"MarcEdit is a comprehensive MARC editing software suite that includes tools like a MarcEditor, XML API, OAI Harvester and unicode support. MarcEdit provides users with a straightforward GUI application that can be used for global MARC or XML record editing."

- Terry Reese

What is MARCEdit?

For this project, I used the Delimited Text Translator to translate Excel columns into MARC fields, and the general MARCEdit application for batch updates.

I am by no means an expert.

Want to learn? Fantastic videos on YouTube by **tpreese** and by other MARCEdit users.

MarcEdit By Terry Reese

File   Tools   Add-ins   Plug-ins   Help

MARC Tools

Delimited Text Translator

MarcEditor

Harvest OAI Records

MARC SQL Explorer

Z39.50/SRU Client

MarcEdit Delimited Text Translator
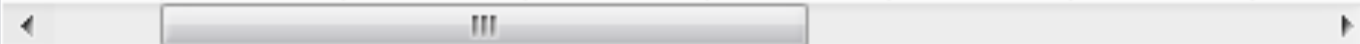
MarcEdit Delimited Text Translator

Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7	Field 8
Copy ...	Title	Edition	Publis...	Pub D...	Recor...	Notes	Geogr

Select:

Field 6
Field 7

Map To:

500$a

Indicators:

\\

Term. Punctuation:

.

☐ Constant Data

☐ Repeatable Subfield

Arguments

```
0  500$a  0
2  245$a  0
4  *260$b  0
5  *260$c  0
```

| Apply | Load Template |

☐ Save Template

☑ Sort Fields

| Finish | Cancel |

23-\1-*949$c--0-0

25-\1-*949$g--0-0

28-\1-*949$l--0-0

35-\1-*949$o--0-0

29-\1-*949$s--0-0

26-\1-*949$t--0-0

2-10-245$a-$h[cartographic material].-0-0

3-\\-250$a--0-0

17-\\-255$a--0-0

4-\\-**260$a- :-0-0

5-\\-**260$b-,-0-0

6-\\-**260$c-.-0-0

36-\\-300$a-.-0-0

30-\\-***501$a- -0-0

12-\\-***501$a--0-0

37-\\-***502$a-: -0-0

18-\\-***502$a--0-0

38-\\-****503$a- -0-0

15-\\-****503$a--0-0

32-\\-*****504$a- -0-0

22-\\-*****504$a--0-0

21-\\-546$a--0-0

14-\0-651$a-$vMaps.-0-0

1-\\-100$a-.-0-1

8-\\-500$a--0-0

File   Edit   Fonts   Reports   Tools   OCLC WorldCat   Plug-ins

```
=LDR  00000nem a2200000la 4500
=008  120830s9999\\\\\xx\\\\\\\\\\\\\\000\0\und\d
=245  10$aTitle$h[cartographic material].
=250  \\$aEdition
=255  \\$aScale
=260  \\$aPlace :$bPublisher,$cPub Date.
=300  \\$aMap(s).
=500  \\$aNotes
=501  \\$aMap ID#: Barcode
=502  \\$aMap theme: Maptheme
=503  \\$aSeries code Series code
=504  \\$aNumber of sheets: Number of sheets$aAuthor.
=546  \\$aLanguage
=651  \0$aGeography$vMaps.
=949  \1$cMapLocation$gCopy #$lLocation$o$sStatus$tlCode1
```

```
=LDR  00000nem a2200000la 4500
=008  120830s9999\\\\xx\\\\\\\\\\\\\000\0\und\d
=245  10$aCarlsbad Caverns National Park$h[cartographic material].
=255  \\$a1:34,500
=260  \\$bNational Geographic Society,$c2001.
=300  \\$aMap(s).
=501  \\$aMap ID#: 656001
=502  \\$aMap theme: Recreation; Topographic
=504  \\$aNumber of sheets: 1.
=546  \\$aEnglish
=651  \0$aNew Mexico$vMaps.
=949  \1$cC48:D09$g1$lgmaps$o$s-$t0
```

We loaded test sets of 5 records at a time…

Made changes in MARCEdit, then loaded 500...

And then…all of them…in 3 sets.

Millennium/Sierra

MIGRATING THE RECORDS…

Edits in Millennium/Sierra

Global Updates for known issues – for example, changing 651s "London" to "London (Ont.)" and fixing the 008

Headings Reports to catch other issues with subject heading and authors

Then…more Global Updates

Creation of new location codes for the MDC—one for each of the types of records, plus others for material we knew was coming.

Carlsbad Caverns
National Park

Title	Edition	Publisher	Pub Date	Record Type	Notes	Geography	Sca
T Battlefields of the Civil War, with Descriptive Notes		National Geographic Society	1961	Sheet map	verso: sectional maps	NORTH AMERICA|UNITED STATES OF AMERICA (USA)	1:2
Fault Map of California with Locations of Volcanoes, Thermal Springs and Thermal Wells		Williams & Heintz Map Coporation	1982	Sheet map	2nd printing	NORTH AMERICA|UNITED STATES OF AMERICA (USA)|CALIFORNIA	1:7
M Presettlement Prairie of Missouri		Missouri Department of Conservation	1981	Sheet map	text in vertical file	NORTH AMERICA|UNITED STATES OF AMERICA (USA)|MISSOURI	1:5
Historic and Scenic Reaches of the Nation's Capital		National Geographic Society	1938	Sheet map	July 1938 Issue|graphic scale	NORTH AMERICA|UNITED STATES OF AMERICA (USA)|WASHINGTON	[1:
Outback, New South Wales		Hema Maps	1999	Sheet map	Insets: National Parks	AUSTRALIA|NEW SOUTH WALES	1:1
Carlsbad Caverns National Park		National Geographic Society	2001	Sheet map		NORTH AMERICA|UNITED STATES OF AMERICA (USA)|NEW MEXICO	1:3
Western Australia 1:1,000,000		Department of Lands & Surveys, Western Australia	1979-1982	Sheet map		AUSTRALIA|WESTERN AUSTRALIA	1:1
New Zealand - South Island|New Zealand - North Island	3	ITMB	1999	Sheet map	Urban insets	NEW ZEALAND	1:1
Banks Peninsula	1	Department of Survey and Land Information	1995	Sheet map	Holidaymaker Series|Verso: text	NEW ZEALAND	1:1
Fiji		Hema Maps/South Pacific Maps	2002	Sheet map	verso: text & images	PACIFIC ISLANDS|MELANESIA|FIJI	1:6
Antarctic Region		CIA	2002	Sheet map		ANTARCTICA	1:6
Energy Map of Central Asia		Petroleum Economist	1993	Sheet map	Graphic Scale	ASIA	
Canada Road Map		Canadian Government Travel Bureau	1961	Sheet map		NORTH AMERICA|CANADA	
Myanmar		New Holland Publishers Ltd.	1999	Sheet map	urban insets: Mandalay & Yangon	ASIA|MYANMAR	1:1
South-Central Tibet		Edward Stanford Ltd.	1987	Sheet map		ASIA|CHINA	1:1
Iran		[CIA]	1996	Sheet map		ASIA|IRAN	1:3
Palestine of the Old Testament		Survey of Israel	1965	Sheet map		ASIA|ISRAEL	1:5
Major Muslim Ethnic Groups in Armenia, Iran, and the Islamic Commonwealth States		[CIA]	1992	Sheet map	Graphic Scale	ASIA|IRAN|KAZAKHSTAN|TURK MENISTAN|UZBEKISTAN	
		Director General of Military Survey,					

```
=LDR  00000nem a2200000la 4500
=008  120830s9999\\\\xx\\\\\\\\\\\\\000\0\und\d
=245  10$aCarlsbad Caverns National Park$h[cartographic material].
=255  \\$a1:34,500
=260  \\$bNational Geographic Society,$c2001.
=300  \\$aMap(s).
=501  \\$aMap ID#: 656001
=502  \\$aMap theme: Recreation; Topographic
=504  \\$aNumber of sheets: 1.
=546  \\$aEnglish
=651  \0$aNew Mexico$vMaps.
=949  \1$cC48:D09$g1$lgmaps$o$s-$t0
```

File   Edit   View   Go   Tools   Reports   Window   Help

Insert   Save   View   Edit   Media(0)   Summary   Browse   Verify   Export   Print   Close
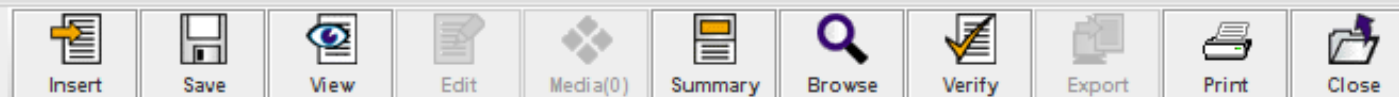
b52535800   Last Updated: 2011-03-25   Created: 2011-01-17   Revisions: 7

LANG	eng English	CAT DATE	2011-01-17	ACTION	-
SKIP	0	BIB LVL	m BOOKS	COUNTRY	xx Unknow, Undetermined
LOCATION	g Map & Data Library	MAT TYPE	e PRINTED MAP		

```
MARC Leader    #####nem 22##### a 4500
y    007        aj cauua
y    008        170111s2001        a    0   eng d
y    040        CaOLU|beng
t    245   0 0  Carlsbad Caverns National Park|h[cartographic material] /|cNational Geographic Society.
n    255        Scale 1:34,500.
p    260        [S.l.] :|bNational Geographic Society,|c2001.
r    300        1 map :|bcol.
n    500        Map ID#: 6560.
d    650     0  New Mexico|vMaps.
d    653        Recreation.
b    710   2    National Geographic Society.
```

i66982017   Edit Mode (INS)

Shared Library Catalogue

RECORD # ▾ | b5253580 | All Libraries and Collections

☐ *Show Available Items Only*

Title	Carlsbad Caverns National Park [cartographic material] / National Geographic Society.
Publisher	[S.l.] : National Geographic Society, 2001.

Location	Call Number	Currently
Map & Data Map Cabinets	C11 : D09	IN PROCESS

📄 Export to RefWorks   📱 Send via Text Message ℹ️

Description	1 map : col.
Math Data	Scale 1:34,500.
Note	Map ID#: 6560.
Subject	New Mexico -- Maps.
SUBJECT	Recreation.
Alternate Author	National Geographic Society.

A few interesting features…

Cabinet and drawer codes for sheet maps

Graphic indexes for topographic series maps

Interesting Features

CABINET CODES AND GRAPHIC INDEXES

The Problem of Call Numbers

Map and Data Centre has never used call numbers

Items are moved and replaced frequently

MDC staff cannot edit bibliographic records

Items are stored in a variety of different ways

Locations in the Map and Data Centre

Atlas Cabinets	C# indicates which cabinet stores the atlas. WS indicates an atlas displayed on a wooden stand on a cabinet top.
Desk	Ask a Map and Data Centre library staff member for help with these items.
Map cabinets	Sheet map or topographic map series stored in a cabinet. C# is the cabinet number, D# is the drawer number.
Vertical filing cabinets	Stored in a vertical filing cabinet.
Open shelves	Atlas stored on open shelves.
Oversize	Atlas stored in an oversize drawer.
Storage	Ask a Map and Data Centre library staff member for help with these items.
Time Series atlas	Ask a Map and Data Centre library staff member for help with these items.
Time Series map	Ask a Map and Data Centre library staff member for help with these items.

Cabinet Codes

Title   **Map of Canada East & Lower Canada [cartographic material].**

Publisher   Maclear & Co., 1856.

Description   Map(s).

Location	Call Number	Currently
Map & Data Centre Map Cabinets	C28:D13	IN LIBRARY

Export to RefWorks   Send via Text Message

Note   Map ID#: 2288101
Map theme: Historical
Number of sheets: 1.

Language   English

Collection Statement   Serge A. Sauer Map Collection.

Subject   Ontario -- Maps.

Pulled from item record

CALL NO ▼   C28:D13

All Libraries and Collections ▼   Search

☐ **Show Available Items Only**

Save Marked Items   Mark All Items   Save to List

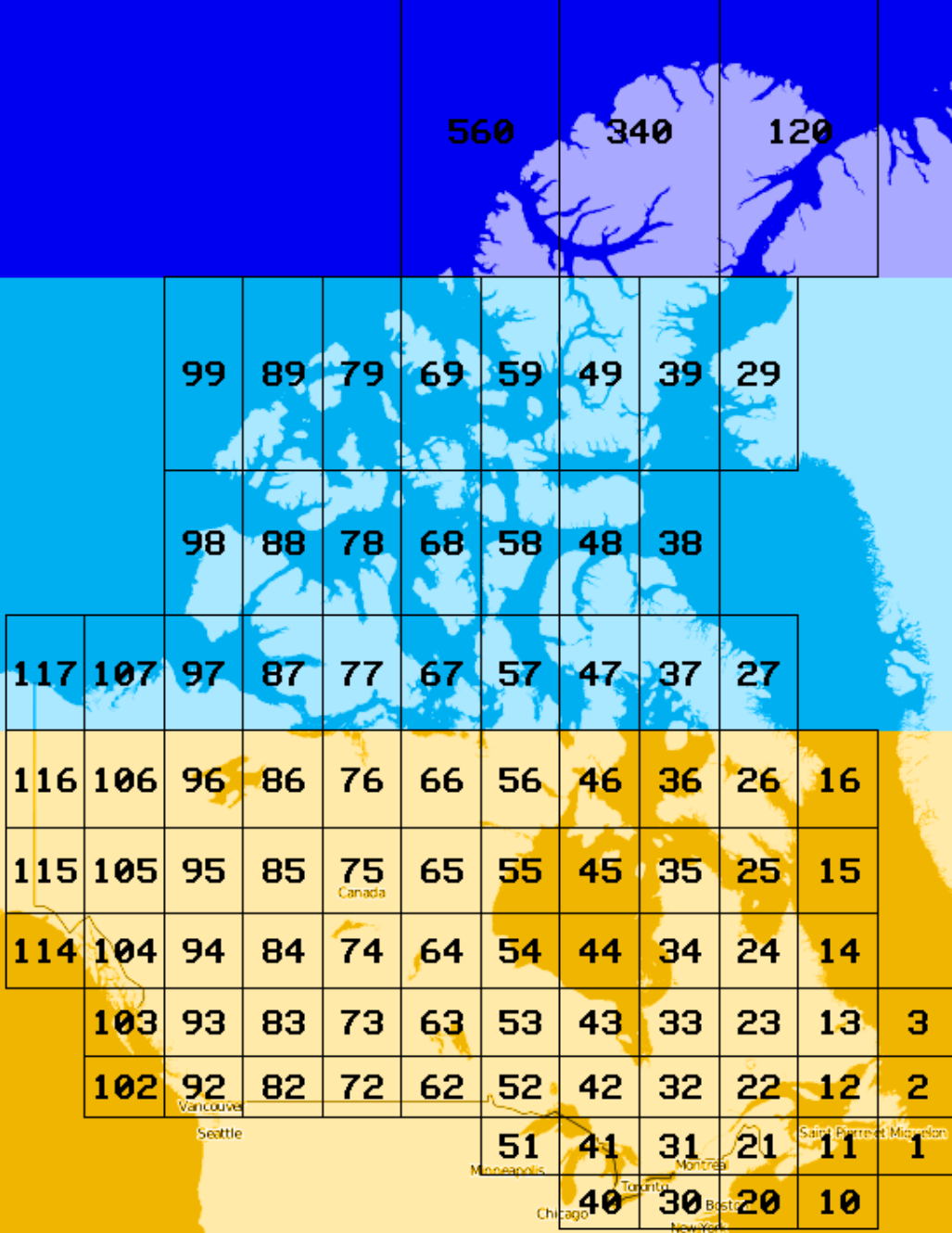| Mark Item		Format	Year
	C28:D07		
	Canada West Formerly Upper Canada [cartographic material]. **Map & Data Centre**		1846
☐	Lands in Upper Canada to be Disposed of by the Canada Company [cartographic material]. **Map & Data Centre**		1832
	Sketch of the Routes Between Bytown & Penetangushene [cartographic material]. **Map & Data Centre**		1834
	Map of the Province of Upper Canada Describing all the New Settlements, Townships, &c [cartographic m **Map & Data Centre**		1986
	C28:D10		
	Turkey Point [cartographic material]. **Map & Data Centre**		1850
	Smith's Commercial and Travelling Map of Canada West [cartographic material] **Map & Data Centre**		1993

Topographic Series

Generally produced by government bodies (e.g. Natural Resources Canada)
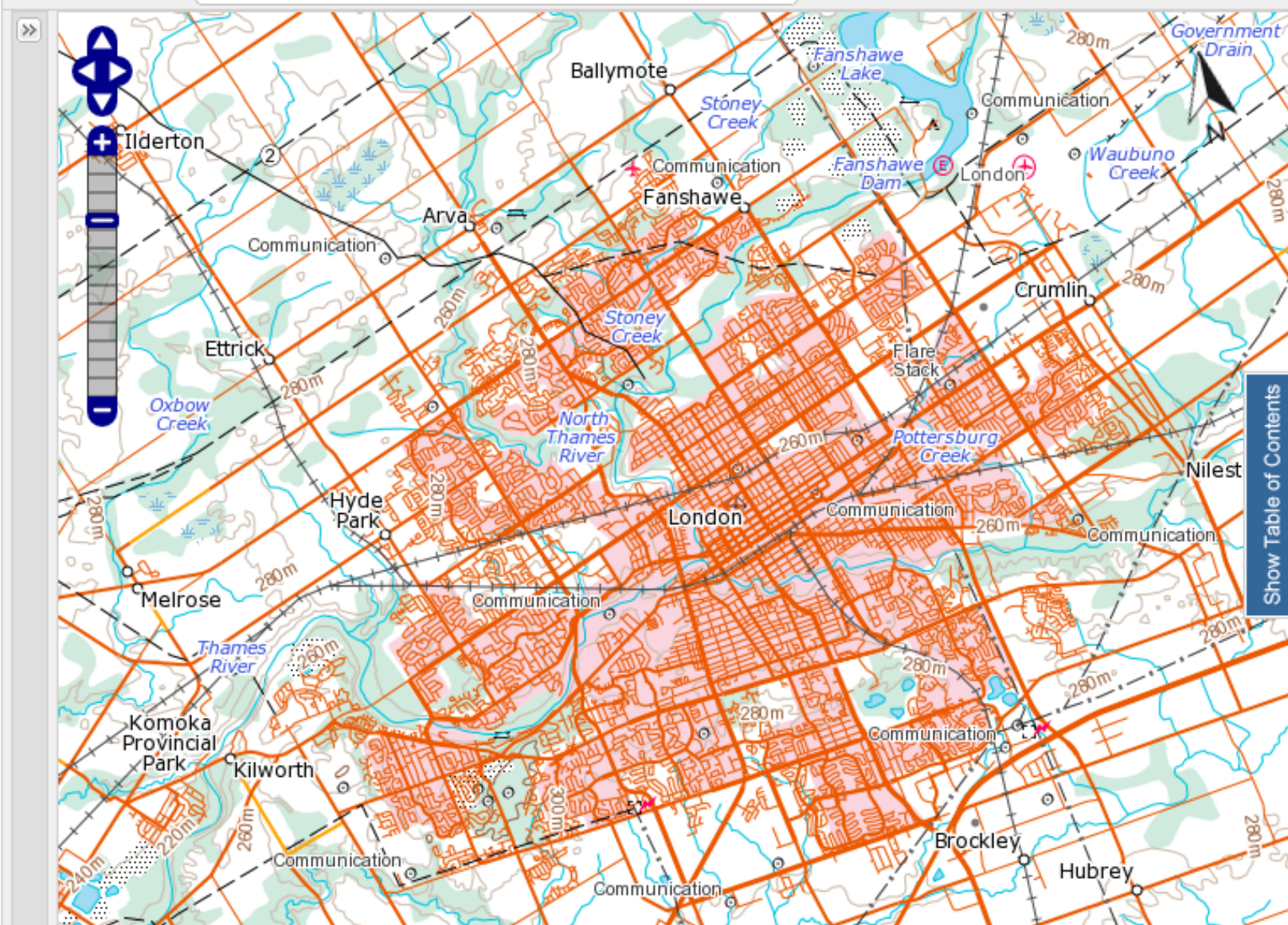
Available at different scales (e.g. 1:50,000 and 1:250,000)

Most of our topographic series maps have graphic indexes

XXX records representing XXX items

Each number represents an individual topographic sheet map

Ballymote

Fanshawe
Lake

Stoney
Creek

Communication

Government
Drain

Ilderton

Communication

Arva

Fanshawe

Communication

Fanshawe
Dam

London

Waubuno
Creek

Communication

Stoney
Creek

Crumlin

Ettrick

Flare
Stack

280m

Oxbow
Creek

North
Thames
River

260m

Pottersburg
Creek

Nilest

Hyde
Park

London

Communication

Communication

Melrose

Thames
River

280m

Communication

Komoka
Provincial
Park

Kilworth

300m

Communication

Brockley

Hubrey

Communication

Show Table of Contents

Cursor position: 43.1009608 -81.3683443
43°06'03.5"N 81°22'06"W   км

Title	**Uppdrattur Islands 1:100,000 [cartographic material].**
Publisher	Copenhagen: [Akranes] : Geodetisk Institut; Landmaelinger Islands, 1945-.
Description	Maps.

Click on the following to:

View graphic index ⟵ **856 MARC field**

Location	**Call Number**	**Currently**
Map & Data Centre Map Cabinets	C76:D05	IN LIBRARY

Export to RefWorks   Send via Text Message

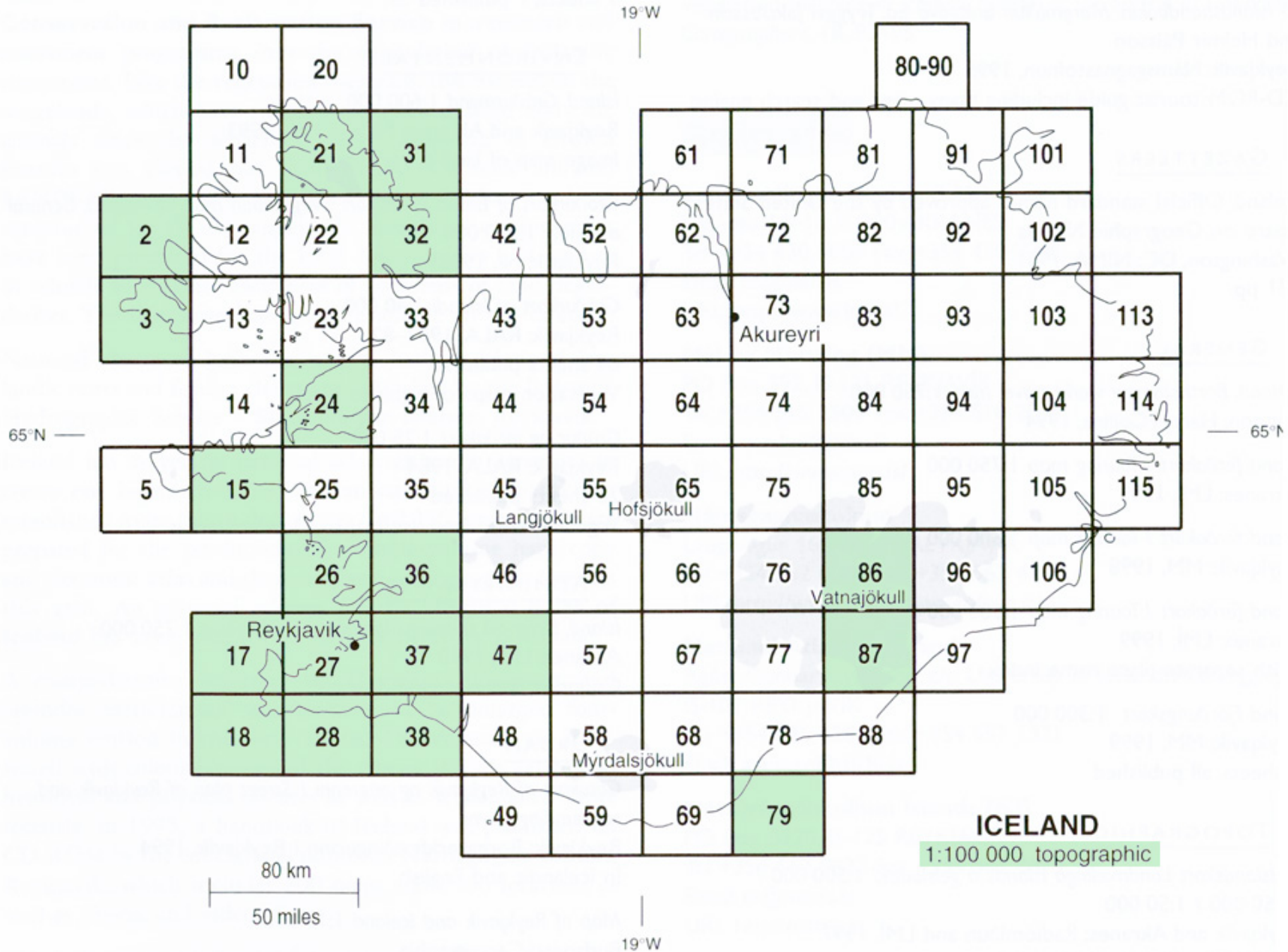| **Note**	Map ID#:578701.
	Percentage of holdings: 11% to 39%.
Collection Statement	Serge A. Sauer Map Collection.
Subject	**Iceland** -- Maps, **Topographic**.

19°W

| 10 | 20 | | | | | | | | 80-90 |

11 21 31 61 71 81 91 101

2 12 22 32 42 52 62 72 82 92 102

3 13 23 33 43 53 63 73 83 93 103 113
Akureyri

14 24 34 44 54 64 74 84 94 104 114

65°N

5 15 25 35 45 55 65 75 85 95 105 115

Langjökull Hofsjökull

26 36 46 56 66 76 86 96 106

Vatnajökull

Reykjavik

17 27 37 47 57 67 77 87 97

18 28 38 48 58 68 78 88

Mýrdalsjökull

49 59 69 79

ICELAND

1:100 000 topographic

80 km

50 miles

19°W

65°N

Lessons Learned

OR, "I WISH I HAD A TIME MACHINE…"

If I could go back in time…

Communication: Clarify project goals, priorities, and timelines from the start! Project charter is a must.

Take time for learning: Investigate tools up front

❑ Load tables?

❑ Rapid update?

❑ ASAP Utilities for Excel?

❑ What else don't I know about?

Next Steps

WE NEVER SEEM TO RUN OUT OF MAPS…

Questions? Suggestions?

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