10-1-2015

Recommendations from the MWDL Geospatial Discovery Task Force

Sandra McIntyre

Rachel Wittmann

Liz Woolcott
Utah State University

Anna Neatrour

Mountain West Digital Library

Take the Geospatial Discovery Survey (again!)

How have things changed in a year?

Take the survey here:

https://www.surveymonkey.com/r/geospatial2015

Look at results so far here (and refresh as others answer!):
https://goo.gl/ol89Rx

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Recommendations from the MWDL Geospatial Discovery Task Force

Update and Resources
DLF Forum 2015

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Overview

1. Geospatial Discovery Task Force process and findings
2. Implementation experiences
3. Converting legacy collections
4. Integration with regional and national portals
5. Moving forward

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Geospatial Discovery Task Force

Process and findings

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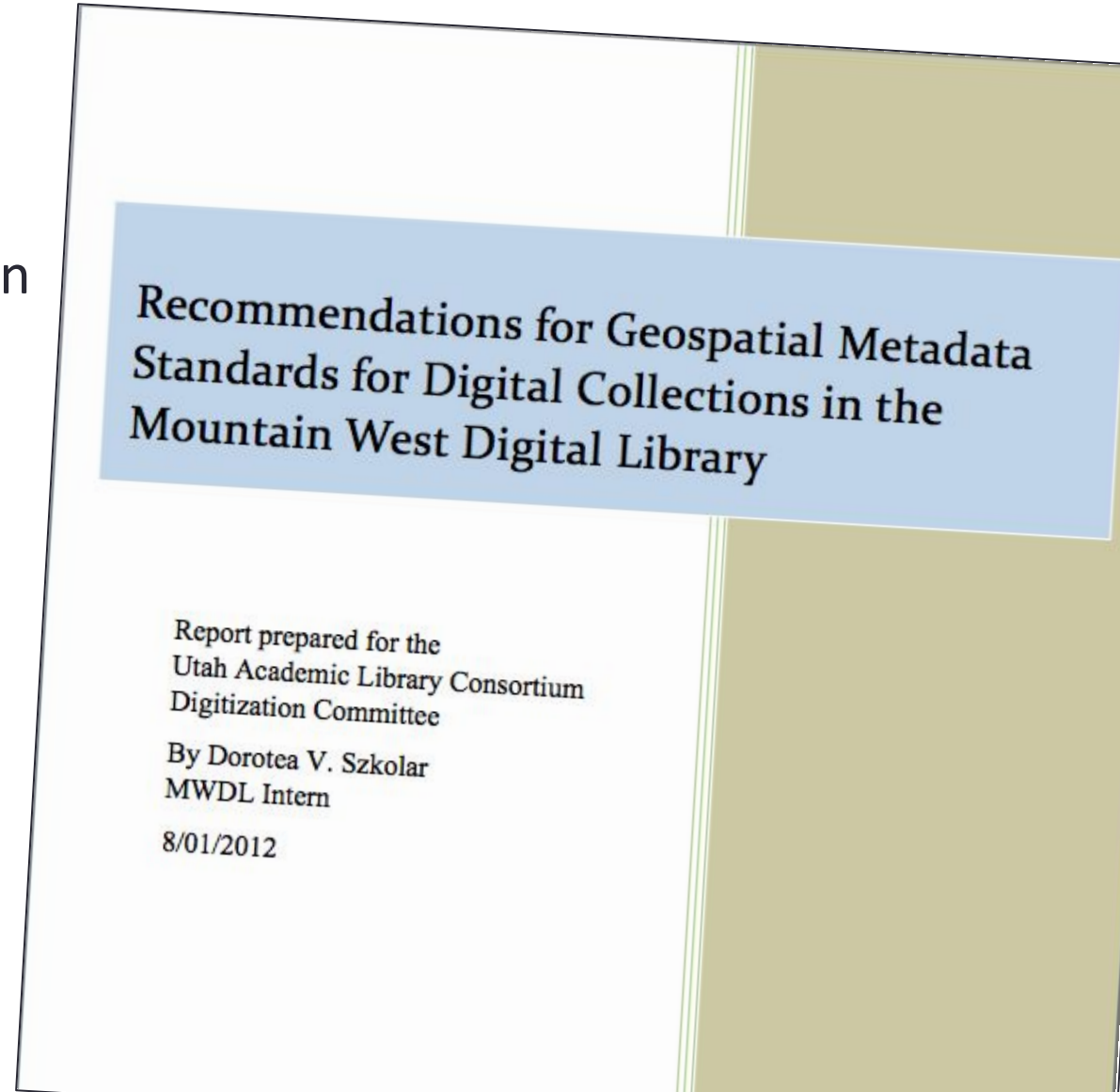
192 partners with non-standard metadata

- Which controlled vocabulary? National values only or some local values?
- How to avoid ambiguity in placenames?
- Which format for latitude/longitude coordinates?
- Mapped to which Dublin Core field?
- For multiple locations, one field or multiple fields?

Documenting issues

Report by
Dorotea Szkolar
MWDL metadata intern



Use Cases

- “I just want my metadata harvested and showing up on DPLA’s map.”
- “I want to create a walking tour of a buildings collection (historic homes of 1925) and need different points expressing street level locations (points + photo).”
- “I’m interested in putting in city, state, town information and I want to get started with linked data.”
- “I want to display county outlines instead of just a point in the middle of the county.”

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Task Force Charge

1. Identify existing geospatial metadata practices
2. Develop guidelines for standardizing
3. Creating map-based search interfaces
4. Identify and share tools

https://sites.google.com/site/mwdlgeospatial/

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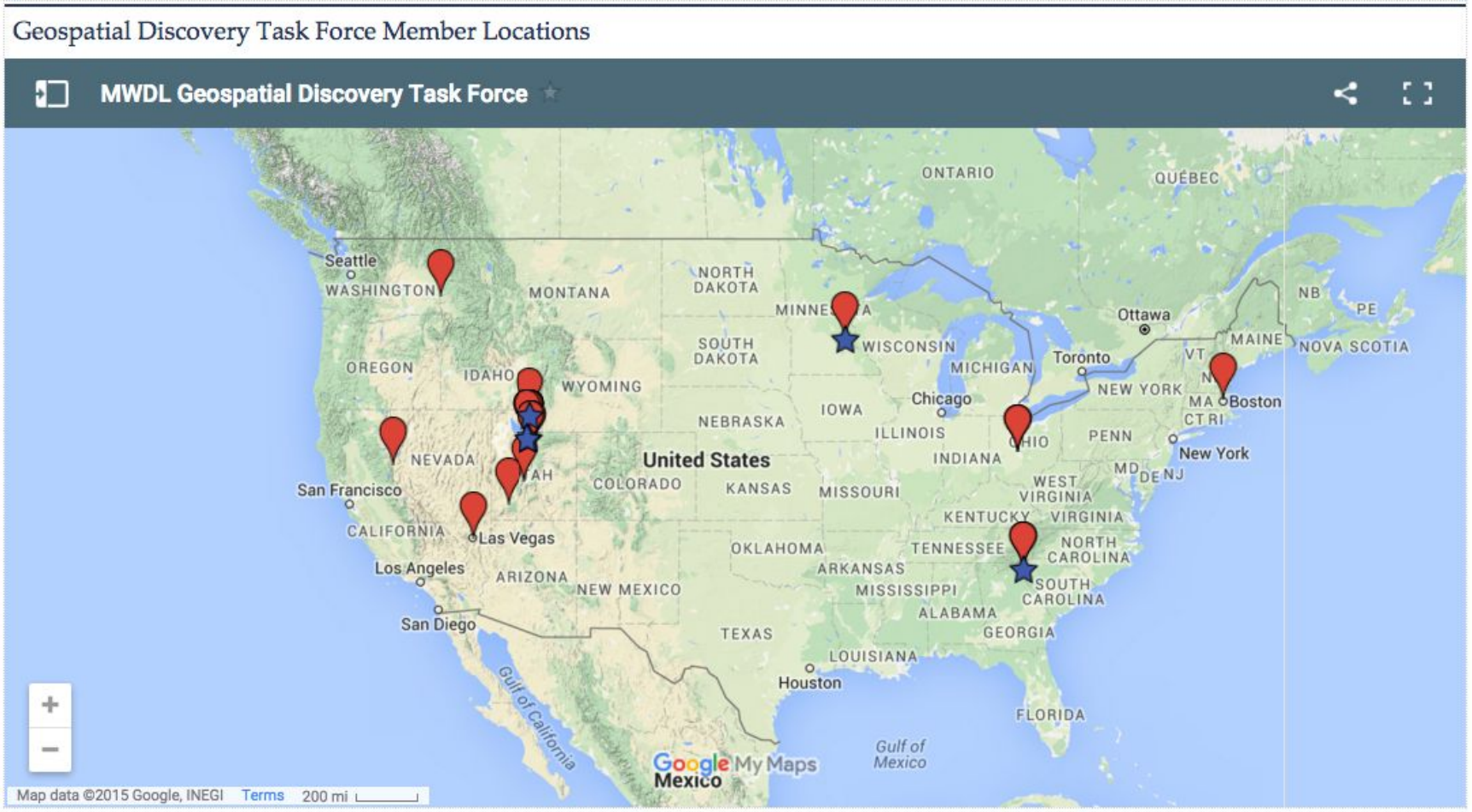
Task Force Members



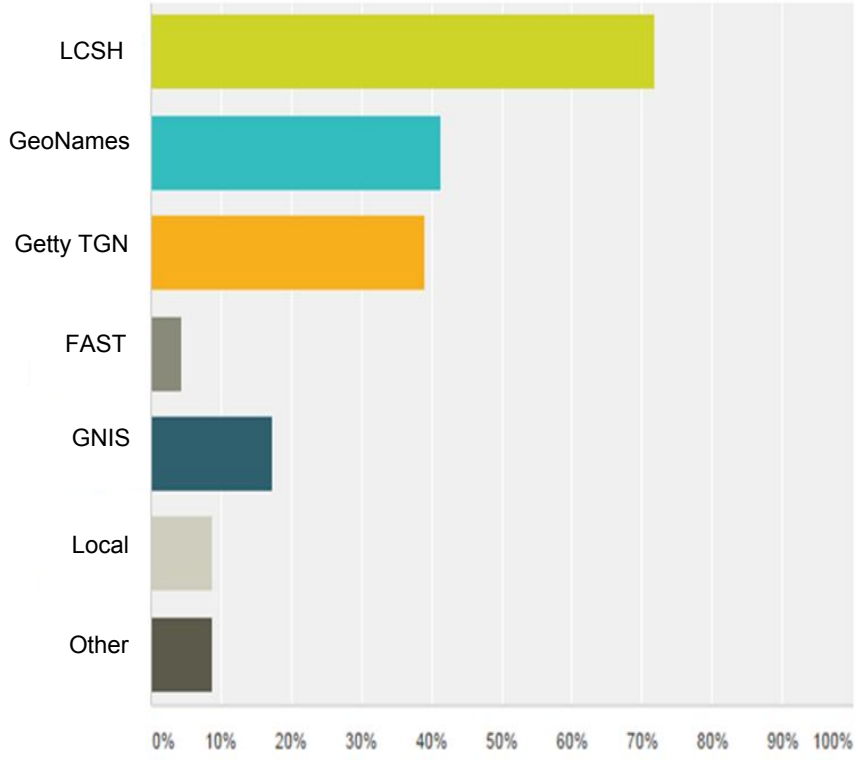
Task Force Process

Phases with sub-groups working on different topics

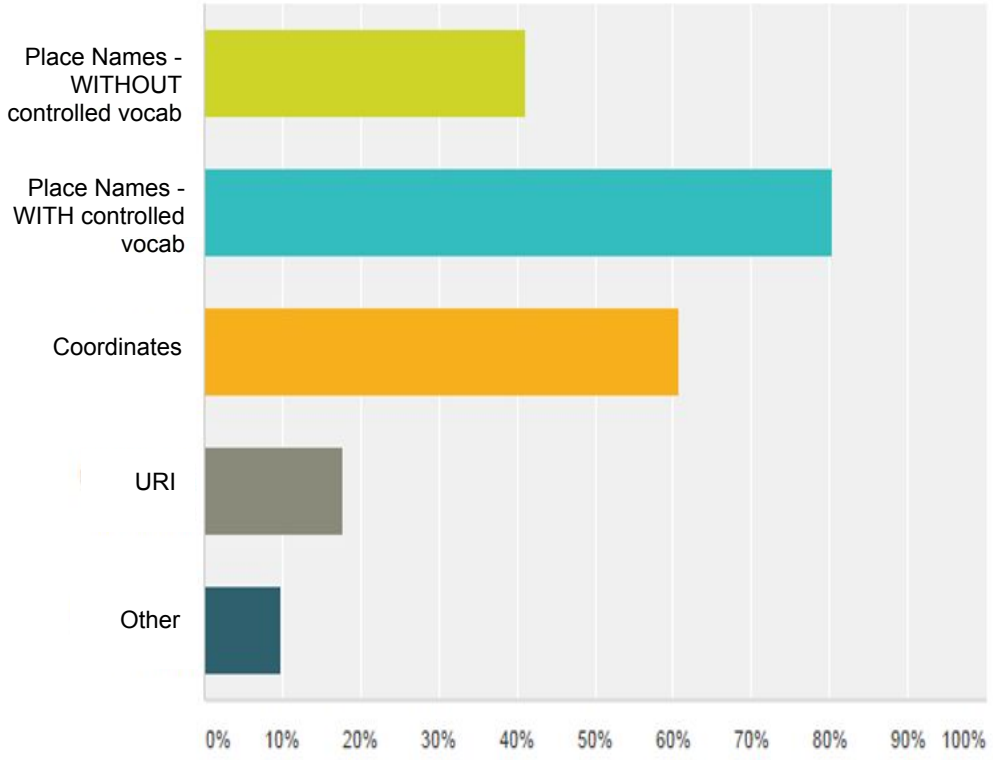
1. Assessment
   Current practices of MWDL partners
   Options for map interfaces
   “Low-hanging fruit” possibilities
2. Options for regional standards
   Controlled vocabulary options
   Coordinate data options
3. Recommendations and instructions

Survey at DLF Forum 2014

If you use a controlled vocabulary for geospatial metadata, what do you use?



How are you expressing your geospatial metadata?



Complete results: https://www.surveymonkey.com/results/SM-Z9LV85BL/

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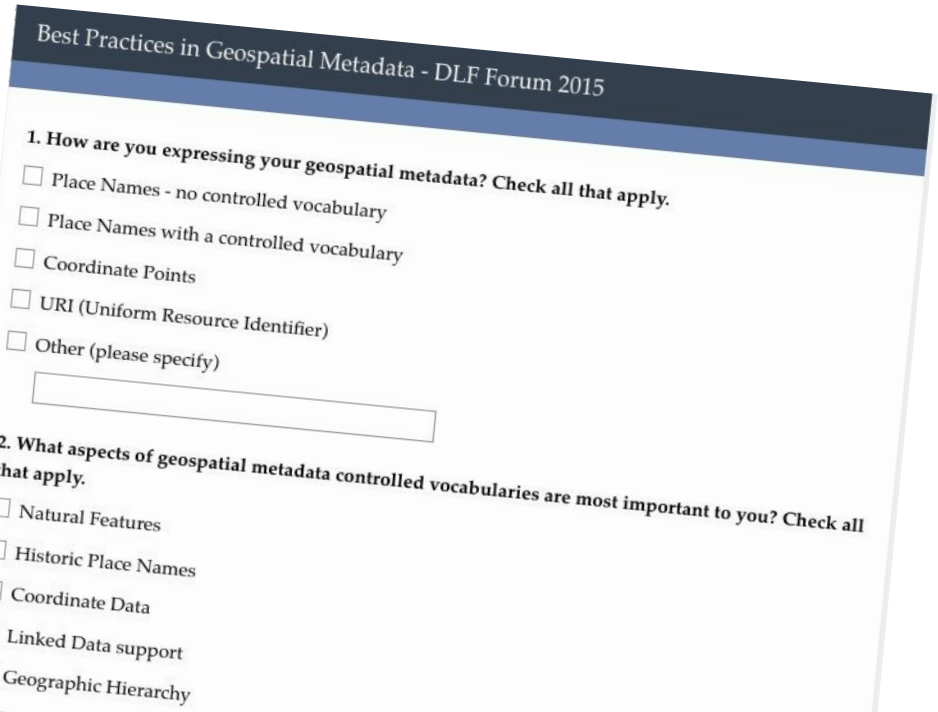
Survey redux

How have things changed in a year?
Please respond to this year's survey here:
https://www.surveymonkey.com/r/geospatial2015

Look at results so far here
(and refresh as others answer!):
https://goo.gl/ol89Rx


Best Practices in Geospatial Metadata - DLF Forum 2015

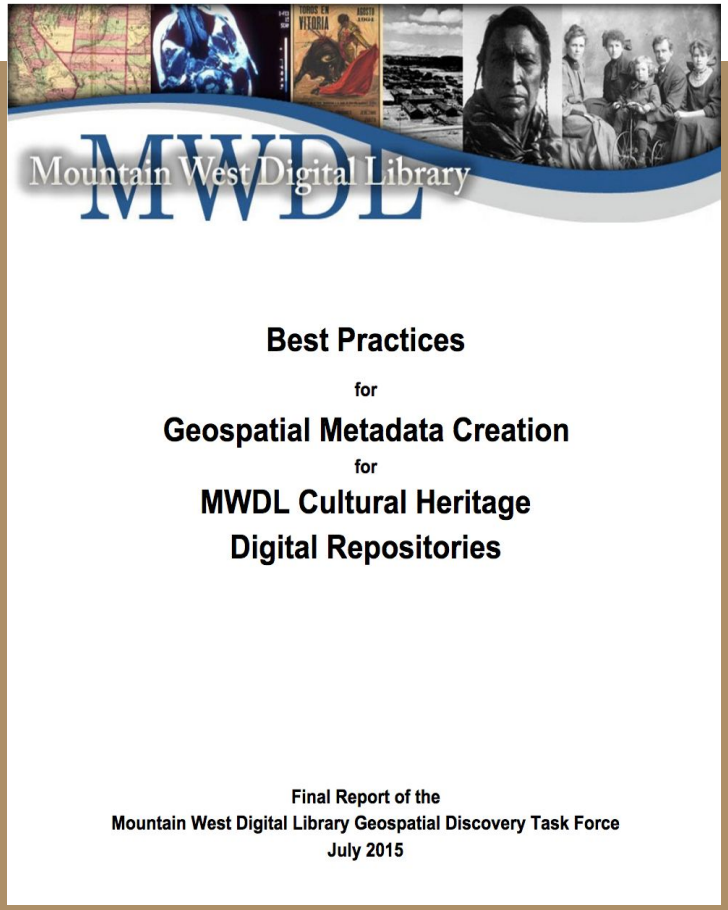
1. How are you expressing your geospatial metadata? Check all that apply.

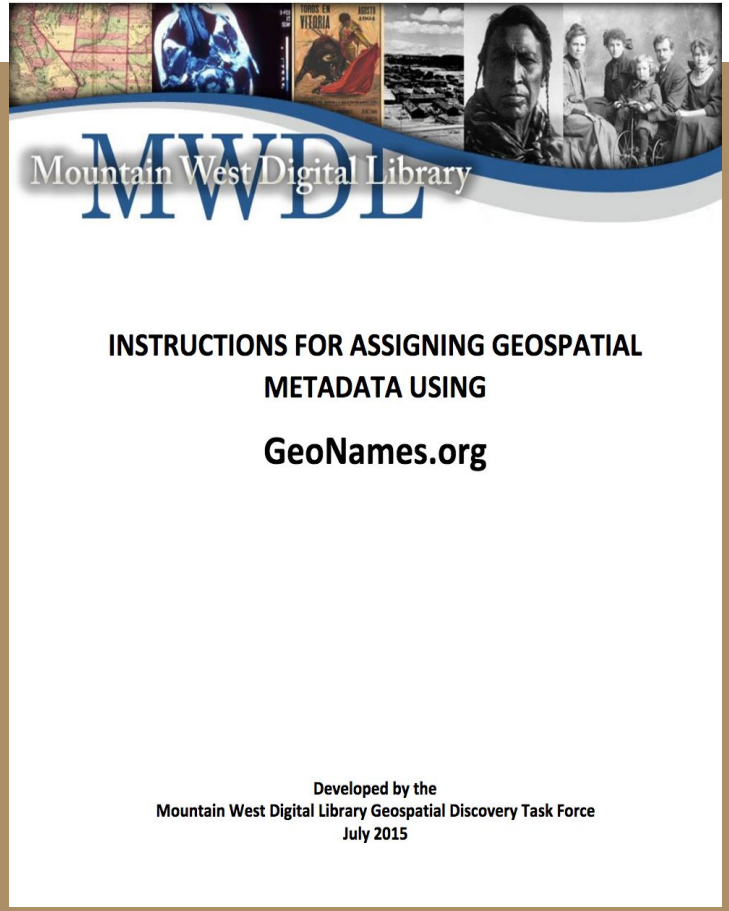
- Place Names - no controlled vocabulary
- Place Names with a controlled vocabulary
- Coordinate Points
- URI (Uniform Resource Identifier)
- Other (please specify)

2. What aspects of geospatial metadata controlled vocabularies are most important to you? Check all that apply.

- Natural Features
- Historic Place Names
- Coordinate Data
- Linked Data support
- Geographic Hierarchy

Deliverables: Final Report and Tutorial





Final Report : https://goo.gl/vTrmzM

GeoNames Tutorial: https://goo.gl/vpX7mi

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Recommendations: GeoNames

1.1. GeoNames is the preferred geographic database from which to derive controlled vocabulary terms, uniform resource identifiers (URI)s, and latitude and longitude information for metadata creation.

Recommendations: Format

1.1.1 The preferred format for geospatial metadata will follow this pattern:

place name hierarchy, URI, Latitude, Longitude

with the place name hierarchy being the minimal accepted format.

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Recommendations: Format Examples

Examples:

Minimal accepted format:

Aurora (historical), Mineral County, Nevada, United States

Highly recommended format:

Aurora (historical), Mineral County, Nevada, United States, http://sws.geonames.org/5499519/

Additional accepted format:

Aurora (historical), Mineral County, Nevada, United States, http://sws.geonames.org/5499519/, 38.28714, -118.9007

Recommendations: Place names and Lat/Long

1.1.2 Place name hierarchy should be presented from smallest to largest, with places spelled out, separated by commas.

1.1.3 Latitude-longitude coordinates should be expressed as decimal degrees, without directional letters (“N”, “W”, etc.), and separated by commas.

Example:
38.28714, -118.9007

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Recommendations: Multiple places

1.1.4 When referring to more than one place, place semi-colons only between each unique place while retaining the commas between the elements that describe each place.

Example:

Aurora (historical), Mineral County, Nevada, United States, http://sws.geonames.org/5499519/; Phoenix, Maricopa County, Arizona, United States, http://sws.geonames.org/5308655/

Recommendations: Additional geospatial

1.1.5 Additional geospatial information (such as street addresses) or metadata that needs to be entered in a different order than what is prescribed in 1.1.1 should be placed in unmapped metadata fields.

Recommendations: Field mapping

1.2 A metadata value in a **field mapped to the spatial coverage** refinement (dcterms:spatial) is recommended for all records harvested by MWDL. The mapping to dcterms:spatial can be done at the collection level. The OAI provider for the repository hosting the collection should **support provision of qualified Dublin Core**.

Recommendations: New collections

1.3 A metadata value in a field mapped to the spatial coverage refinement (dcterms:spatial) is **highly recommended for all records in new collections** harvested by MWDL.

Recommendations: Legacy data

1.4 Where converting legacy data may be too difficult, partners may add an additional separate field mapped to the Dublin Core term spatial (dcterms:spatial) with basic, minimal geospatial metadata **at least at county or county equivalent** (e.g., parish, borough, shire) level, in accordance with GeoNames.

Recommendations: Conformance

1.5 Since MWDL contributors may need to use varied controlled vocabularies, it is recommended that **conformance to these standards be highly recommended but not enforced**. Failure to adhere to these standards will not lead to collections being excluded from harvest. However, MWDL and DPLA may not be able to interpret spatial information that is expressed outside the parameters of these standards.

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Recommendations: ISO compliance

1.6 All standards and practices adopted by the metadata review board should be compliant with applicable ISO standards for geographic metadata.

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Recommendations for Future

- **Legacy Data:** Create actionable plans to deal with legacy geospatial data including:
  - Describe find-and-replace scenarios that may be useful.
  - Look at the top five strategies used by MWDL partners to assign geospatial metadata and estimate what would need to be done to convert legacy data.
- **Regional Gazetteer:** Have a subgroup look at adopting/developing a gazetteer of regional place names that are missing from international controlled vocabularies.
- **Points and Boxes:** Review the formatting and syntax of Points and Boxes, particularly in regards to the DCMI Box/Point Encoding Schemes.
- **Map Interfaces:** Look further into GeoJSON vs. KML for presenting spatial data on map interfaces.

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Limitations at this time

- Current systems used by MWDL partners do not support linked data
- In an ideal world, we would use the URI for the place only, in RDF
- This is encouraging MWDL partners to use a Linked Data compatible controlled vocabulary
- Hope to take fuller advantage of the recommendations at a later date

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Implementation Experiences

- Marriott Library, University of Utah
- Merrill-Cazier Library, Utah State University
- Open Parks Network, Clemson University

University of Utah and Utah State University Implementation

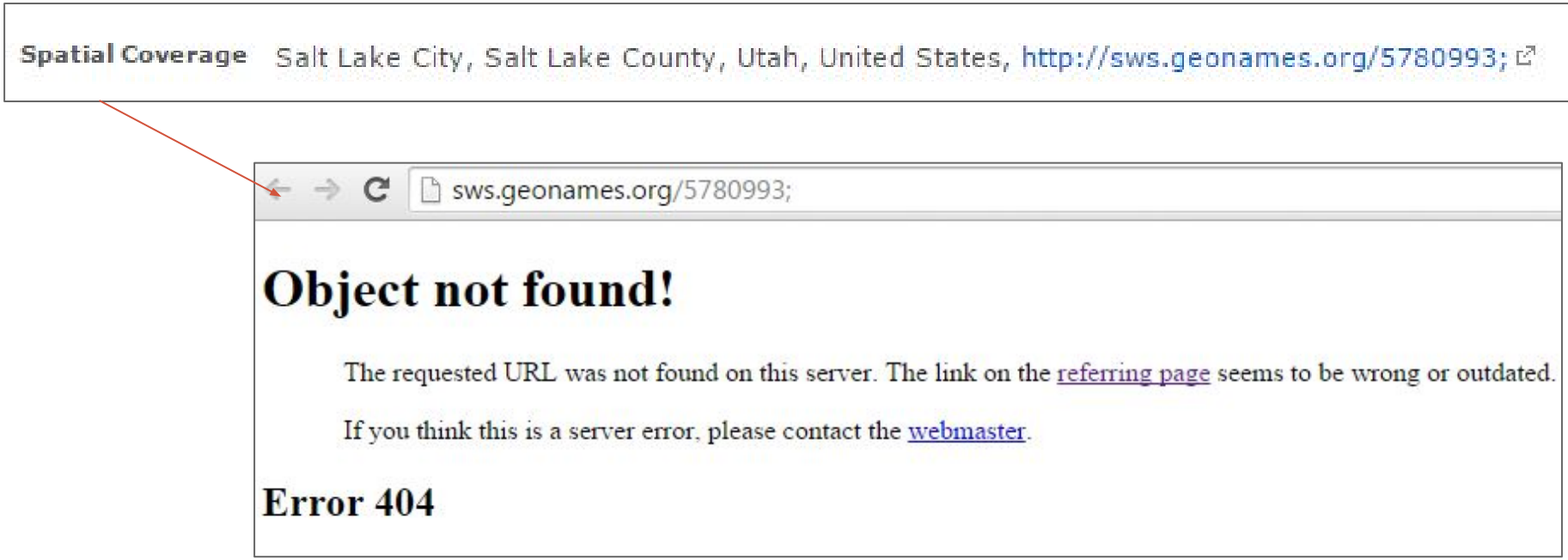
New University of Utah collections with GeoNames information:

- Interviews with Jews In Utah
- Alf Engen Papers
- Everett Ruess Family Papers
- Nelson Higgins Papers
- Thomas Jefferson O'Brien Journals
- and more!

Utah State University collection:

CONTENTdm Implementation Issues

Parsing issues with CONTENTdm and links with semicolons



CONTENTdm Faceting Issues

- salt lake city, salt lake county, utah, united states, http://sws.geonames.org/578099 ; russia, http://sws.geonames.org/201737 (3)
- salt lake city, salt lake county, utah, united states, http://sws.geonames.org/578099 ; new york city, new york, united states, http://sws.geonames.org/512858 (2)
- salt lake city, salt lake county, utah, united states, http://sws.geonames.org/578099 ; poland, http://sws.geonames.org/798544 (2)
- salt lake city, salt lake county, utah, united states, http://sws.geonames.org/578099 ; sandy, salt lake county, utah, united states, http://sws.geonames.org/578106 (2)

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open parks network

Using GeoNames and CollectiveAccess

Robust location capabilities

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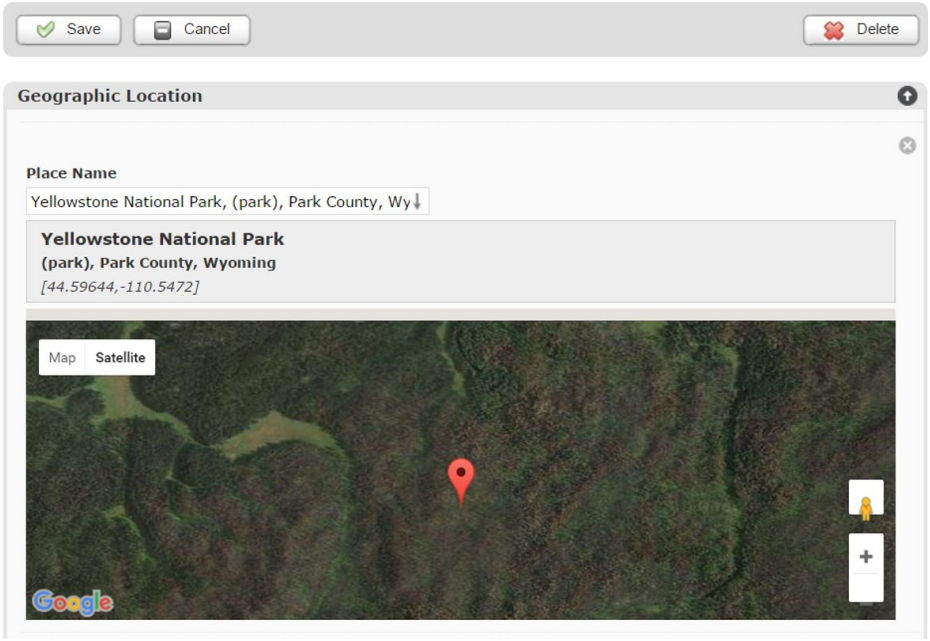
Obscure Locations

Boy reading sign, Newfound Gap, Great Smoky Mountains, National Park, North Carolina,1957



- GeoNames plugin
- Easily customizable
- Lag in retrieving newly created locations

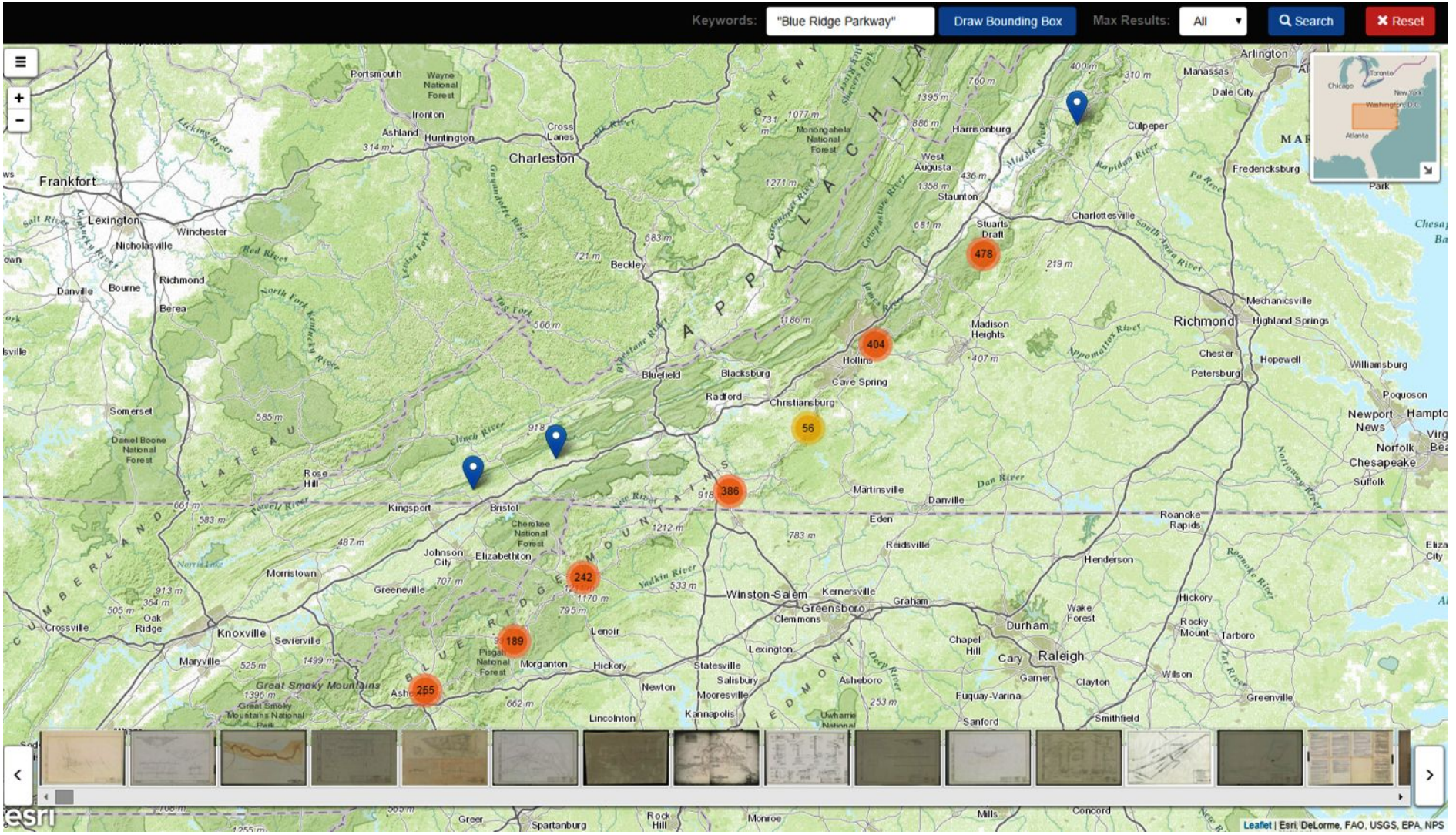
GeoNames elements

name, adminName2, adminName1, countryName, lat, lng, adminCode1, geonameId

GeoNames field editor label display template

^name^, (^fcodeName^), ^adminName2^, ^adminName1^, ^countryName^;
[^lat^,^lng^]

Blue Ridge Parkway Engineering Plans



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Converting Legacy Collections

Developing batch strategies

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Conversion at Marriott Library

Make spatial data in collections more consistent

- If older collections are in LCSH, make it good LSCH
- Use GeoNames consistently moving forward
- If some individual collections could benefit from having GeoNames data, explore conversion
- Explore reconciliation for Geonames in the future

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Conversion at USU Library

- All collections going forward will be assigned geospatial metadata according to the new standards
- Legacy collections will be upgraded one by one as part of a larger effort to bring legacy collection metadata into compliance. Tactics will include:
  - Find and replace wherever possible
  - New geospatial assignments
  - Developing local “cheat sheet” for common locations

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MWDL

Integration into regional and national portals

DPLA
DIGITAL PUBLIC LIBRARY OF AMERICA

Discoverability in search portals

MWDL Interface

Title: Rose Leibowitz Arnovitz, Interviews with Jews in Utah, Accn 998

Alternative Title: Accn 998, Interviews with Jews in Utah, Rose Leibowitz Arnovitz

Creator: Arnovitz, Rose Leibowitz, 1908-1997

Contributor: Kelen, Leslie G., 1949-; Oral History Institute

Creation Date: 1983-03-16

Publisher: Digitized by J. Willard Marriott Library, University of Utah

Abstract: Interviewed by Leslie Kelen, Rose Leibowitz (b. 1908) talks about her parents' lives in Rumania, their coming to America, her father's experiences in the egg and grocery businesses, her childhood, and Jewish rituals practiced in the home. She also remembers her involvement in various organizations in Salt Lake City, including the Talmud Torah ladies, B'nai B'rith, the Traveler's Aid Society, United Way, the Welfare Fund drive, and the Jewish Relief Society (which became the Jewish Family Service). Other topics covered include the differences between the B'nai Israel and Montefiore congregations, the social "clique-isness" of the women in the Jewish community, Rabbi Cardin, the high holy days, some of the people who were "bulwarks" of the Montefiore Congregation, and Zionism. She also recalls some of the locl scandals, the anit-Semitic situation in Salt Lake schools, and the younger generation of Jewish people moving away from Salt Lake. Finally, she speaks of her involvement in Hadassah, Youth Alleyah, fund raising, blue box luncheons, USO, the Jewish Relief Society, and help Jewish soldiers during World War II. 177 pages.

Description: Transcript (177 pages) of interview by Leslie Kelen with Rose Leibowitz on March 16, 1982 for the Interviews with Jews in Utah Project.;

Subjects: Jews, American--Utah--Interviews; Arnovitz, Rose Leibowitz, 1908-1997--Interviews;
Antisemitism-
aspects--Juda

Type: text

Format: app

Extent: 177 pages;

Language: Engli

Spatial Coverage: Salt Lake City, Salt Lake County, Utah, United States, http://sws.geonames.org/5780993 ; România, http://sws.geonames.org/798549

Rights: Digital Image © 2015 University of Utah. All Rights Reserved. Contact the J. Willard Marriott Library Manuscripts Division for use and restrictions. 801-585-3082

Digital Collection: Interviews with Jews in Utah

Related Resources: Is part of: Interviews with Jews in Utah collection, 1982-1988, http://archiveswest.orbiscascade.org/ark:/80444/xv70657/

Spatial Coverage: Salt Lake City, Salt Lake County, Utah, United States, http://sws.geonames.org/5780993 ; România, http://sws.geonames.org/798549

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MWDL Pass-through of values

Include	Exclude	Spatial Coverage
☐	☐	Salt Lake City, Salt Lake County, Utah, United States, http://sws.geonames.org/5780993/ (42)
☐	☐	Russia, http://sws.geonames.org/2017370 (4)
☐	☐	Poland, http://sws.geonames.org/798544 (3)
☐	☐	Germany, http://sws.geonames.org/2921044 (2)
☐	☐	New York City, New York, United States, http://sws.geonames.org/5128581/ (2)
☐	☐	Sandy, Salt Lake County, Utah, United States, http://sws.geonames.org/5781061/ (2)
☐	☐	Brooklyn, Kings County, New York, United States, http://sws.geonames.org/5110302 (1)
☐	☐	Utah, United States, http://sws.geonames.org/5549030/ (1)
☐	☐	Pennsylvania, United States, http://sws.geonames.org/6254927 (1)
☐	☐	România, http://sws.geonames.org/798549 (1)
☐	☐	Latvia, http://sws.geonames.org/458258/ (1)
☐	☐	Magna, Salt Lake County, Utah, United States, http://sws.geonames.org/5777793 (1)
☐	☐	Ogden, Weber County, Utah, United States, http://sws.geonames.org/5779206/ (1)
☐	☐	Nephi, Juab County, Utah, United States, http://sws.geonames.org/5543853 (1)

MWDL facets

SPATIAL COVERAGE

Salt Lake City, Salt Lake County, Utah, United States, http://sws.geonames.org/5780993/ (42)

Russia, http://sws.geonames.org/2017370 (4)

Poland, http://sws.geonames.org/798544 (3)

New York City, New York, United States, http://sws.geonames.org/5128581/ (2)

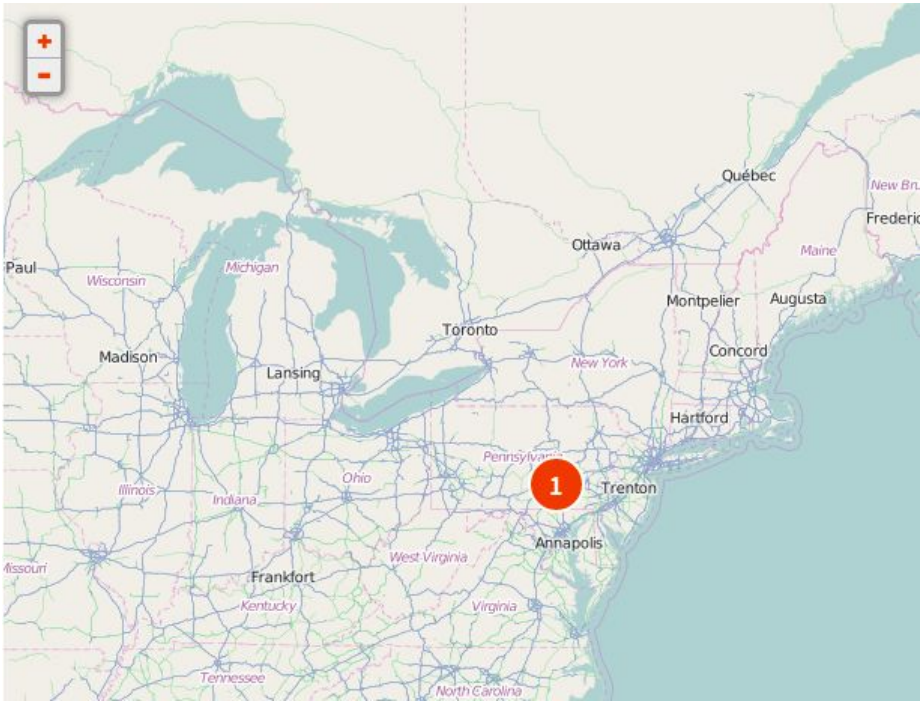
Germany, http://sws.geonames.org/2921044 (2)

More options

Same awkwardness with lengthy facets as in DAMS

DPLA

DPLA hasn't activated its new plan yet but will be enriching geographic data using GeoNames and able to take advantage of new MWDL standards.



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Moving Forward

Promoting best practices and integrating with other standards

MWDL Metadata Standards

1. Approval from entire MWDL Digitization Committee
2. Reconvening MWDL Metadata Task Force for integration into *MWDL Dublin Core Application Profile*

MWDL Staff and Committees

1. Training
2. Metadata auditing changes for new collections
3. Conversion assistance for legacy collections

Resources

Handout: https://goo.gl/YGx4q7

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Geospatial Discovery Task Force

—

Questions?

sandra.mcintyre@utah.edu

https://sites.google.com/site/mwdlgeospatial

Resources

How to use GeoNames:

https://goo.gl/vpX7mi

Quick Guide for Creating Geospatial Metadata

Follow this pattern:

place name hierarchy, URI, latitude, longitude

Examples:

Highly recommended format:

Aurora (historical), Mineral County, Nevada, United States, http://sws.geonames.org/5499519/

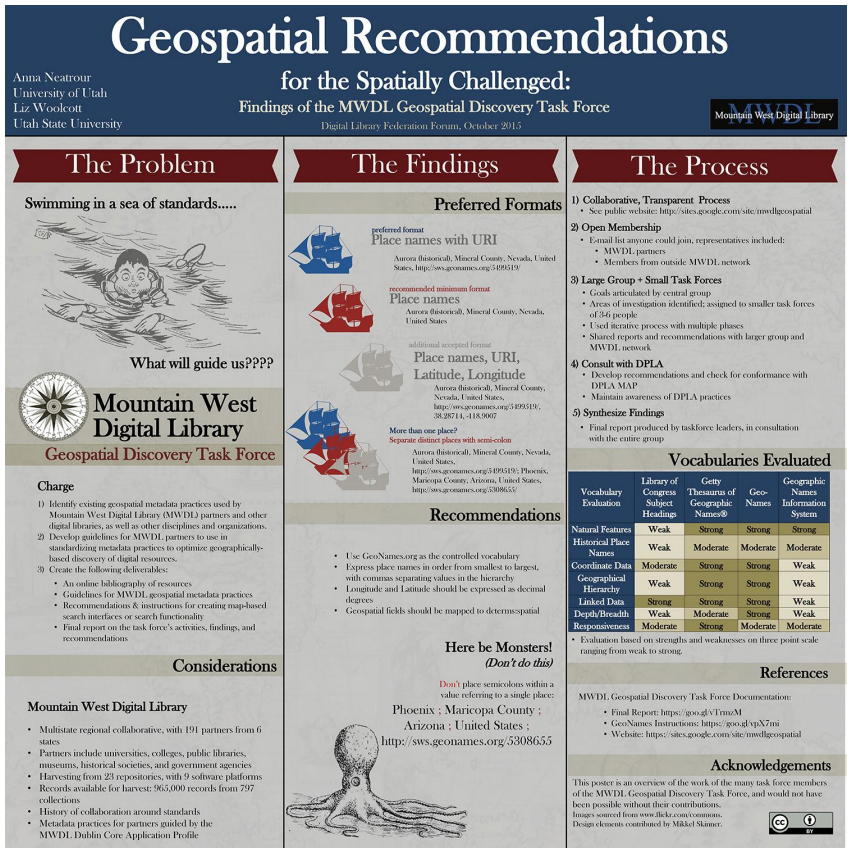
Minimal accepted format:

Aurora (historical), Mineral County, Nevada, United States

Additional accepted format:

Aurora (historical), Mineral County, Nevada, United States, http://sws.geonames.org/5499519/, 38.28714, -118.9007

Resources: Posters



Poster Session today at 4:00

Contact us

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  liz.woolcott@usu.edu
- Anna Neatrour
  anna.neatrour@utah.edu
- Rachel Wittmann
  rwittma@clemson.edu

Today's survey results:

https://goo.gl/ol89Rx

Check the Community Notes later today for a side-by-side comparison with last year's survey results!

https://goo.gl/C4D2X8