

DIGITAL MAPPING TECHNIQUES 2017

The following was presented at DMT'17
(May 21-24, 2017 - Minnesota Geological
Survey, Minneapolis, MN)

The contents of this document are provisional

See Presentations and Proceedings
from the DMT Meetings (1997-2017)

<http://ngmdb.usgs.gov/info/dmt/>

**Managing the Digital Geologic Publication Lifecycle with Digital Commons:
A partnership between the Maine Geological Survey and the Maine State Library.**

Christian Halsted
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Adam Fisher
Director of Collections, Digital Initiatives and Promotion
Maine State Library

The Maine Geological Survey (MGS) has used part of a USGS National Geological and Geophysical Data Preservation (NGGDPP) grant this year to partner with the Maine State Library on a unique project. The library is using a relatively new, cloud-based tool called Digital Commons to host and manage state agency digital documents (<http://digitalmaine.com/>). MGS has loaded all of our digitally available maps and reports (~2600 items) in the last few months. The tool offers perma-links for our maps and reports, management and maintenance of the PDF files themselves, simple and advanced search capabilities, elimination of storage costs, integration with ArcGIS Online and Server, and it removes the need for MGS to build and maintain custom front-ends on our web site for document management. This has been a very rewarding project for both MGS and the Maine State Library. We see many other uses for it in the future including archiving and geotagging digital photos and scanned photo slide collections. We also may use it to archive historical spatial datasets. Digital Commons is available to any teaching, research, library or government organization.

Managing the Digital Geologic Publication Lifecycle with Digital Commons: A partnership between the Maine Geological Survey and the Maine State Library

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Maine Geological Survey

The current – changing – state of geologic publications

- Over 2600 digital maps and reports on state web site that has moved twice in last decade
- Database for managing publications metadata
- Web site and simple table based search tools used for public access to publications
- No public access to superseded maps and reports
- Some older items no longer available in print, only scanned PDFs
- Not selling paper copies of some new maps and reports, only available as PDFs

State Library Role

- Since 1893 the Maine State Library has been the legal recipient and custodian of state documents.
- MSL's mission is to promote public access, provide government transparency and protect Maine's history.
- Maine Public Records Law ([MRSA 1 §501-A](#))– requires agencies to send copies of all their reports/ publications/research to the Maine State Library.
 - requirement ensures that these publications will always be available as public documents
 - agencies frequently come to MSL to retrieve documents that have been lost over time

StateDocs Collection at State Library

Items produced by state agencies:

- Publications
- Research
- Reports
- Marketing materials

Historical materials dating back to the formation of the state



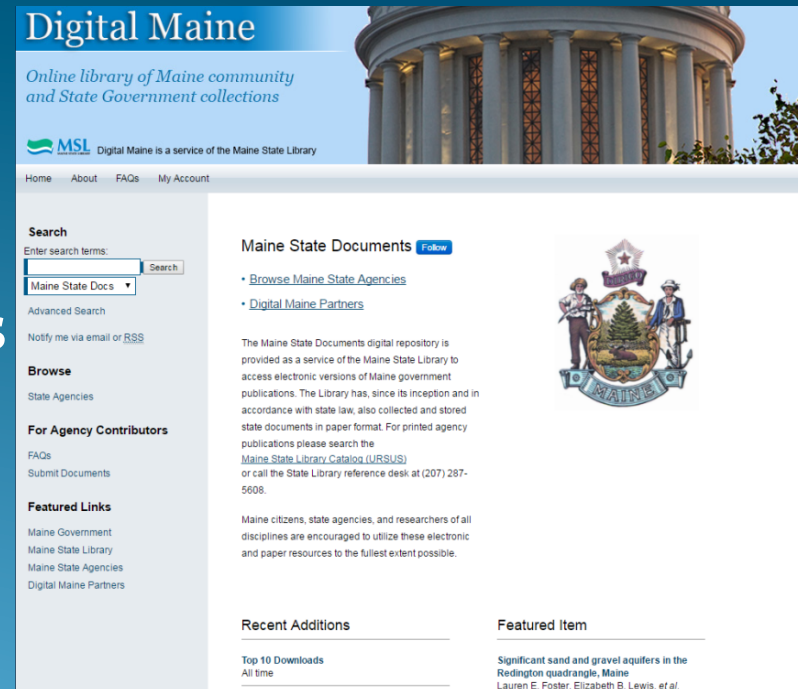
StateDocs Digital Archive

Permanent online storage for same items as physical collection.

Launched in 2013 on [Digital Commons](#) from bepress.

Includes over 62,000 digital files

- Publications (books, reports)
- Photos
- Maps
- Research
- Marketing materials
- Audio/video files



The screenshot shows the 'Digital Maine' website interface. At the top, it says 'Digital Maine' and 'Online library of Maine community and State Government collections'. Below that is the MSL logo and 'Digital Maine is a service of the Maine State Library'. There are navigation links for Home, About, FAQs, and My Account. A search bar is present with a dropdown menu set to 'Maine State Docs'. Below the search bar are links for 'Advanced Search' and 'Notify me via email or RSS'. There are sections for 'Browse' (State Agencies), 'For Agency Contributors' (FAQs, Submit Documents), and 'Featured Links' (Maine Government, Maine State Library, Maine State Agencies, Digital Maine Partners). The main content area features a 'Maine State Documents' section with a 'Follow' button and links to 'Browse Maine State Agencies' and 'Digital Maine Partners'. A descriptive paragraph follows, and there is a 'Maine' state seal image. At the bottom, there are sections for 'Recent Additions' (Top 10 Downloads, All time) and 'Featured Item' (Significant sand and gravel aquifers in the Redington quadrangle, Maine, Lauren E. Foster, Elizabeth B. Lewis, et al.).

www.DigitalMaine.com

StateDocs Digital Archive Key Features

Permanence

- Content can be moved but links won't change
- Files are updated periodically to use the latest PDF standards and to protect from bit rot
- Cloud storage with file backups every four hours by Iron Mountain data security

Reporting

- Authors and agencies can get updates on download activity for items in collection
- Usage statistics from server logs are more accurate than Google Analytics

StateDocs Digital Archive Key Features

Integration

- Can be integrated with agency web sites or other online repositories like university libraries, GeoRef, NGMDB

Search optimization

- Files are meta tagged and searchable by author, date, title, keyword, agency, and abstract.
- Items in our collection rank well in Google searches
- Part of a larger academic repository (DPLA) that is used by institutions around the world

StateDocs Digital Archive Key Features

File management

- OCR run for all files
- Unlimited file storage
- Bulk uploads and updates of files and metadata
- No more local files

Customization

- Standard metadata field names can be edited
- New metadata fields can be added
- Custom domains can be incorporated

StateDocs Digital Archive Key Features

Decentralized administration

- Collection specific agency administrators
- Can allow agency staff to make submissions

Audience engagement tools

- Can subscribe for notifications
- Option for moderated comments on items

Demonstration

http://digitalmaine.com/geological_survey/



Demonstration

DEPARTMENT OF Agriculture, Conservation and Forestry

- About DACF
- Animals & Plants
- Forest
- Geology
- Recreation
- Farming
- Planning
- Licensing & Regulations
- Bureaus & Programs

DACF Home → Bureaus & Programs → Maine Geological Survey → Maps, Publications and Online Data → 1:24000 Surficial Geology Maps and Reports

- About
- Explore Maine Geology
- Hazards
- Educational Materials
- Maps, Publications, Data
- Related Links

Maine Geological Survey

Online Surficial Geology Quadrangle Maps and Reports, Scale 1:24000

Printed copies of publications are [available for sale](#). Older publications may not be available online. Use the [Maps and Publications Search](#) to identify printed and online publications available from the Maine Geological Survey.

- [Description of detailed surficial geology map series](#)
- [Tips for reading detailed surficial geology maps](#)
- [Digital surficial geology data](#)

Search:

Quadrangle Name	Publication No.	Citation	Associated Report
Albion	15-14	Weddle, Thomas K., 2015, Surficial geology of the Albion quadrangle, Maine : Maine Geological Survey, Open-File Map 15-14, map, scale 1:24,000.	
Alfred	99-76	Neil, Craig D., 1999, Surficial geology of the Alfred quadrangle, Maine : Maine Geological Survey, Open-File Map 99-76, map, scale 1:24,000.	
Augusta	09-7	Thompson, Woodrow B., 2009, Surficial geology of the Augusta quadrangle, Maine : Maine Geological Survey, Open-File Map 09-7, map, scale 1:24,000.	
Baker Island	16-13	Braun, Duane D., 2016, Surficial geology of the northern portion of the Baker Island quadrangle, Maine : Maine Geological Survey, Open-File Map 16-13, map, scale 1:24,000.	
Bangor	11-6	Syverson, Kent M., and Thompson, Andrew H., 2011, Surficial geology of the Bangor quadrangle, Maine : Maine Geological Survey, Open-File Map 11-6, map, scale 1:24,000.	08-52
Bar Harbor	16-19	Braun, Duane D., 2016, Surficial geology of the southwestern portion of the Bar Harbor quadrangle, Maine : Maine Geological Survey, Open-File Map 16-19, map, scale 1:24,000.	
Bar Mills	99-77	Hunter, Lewis E., 1999, Surficial geology of the Bar Mills quadrangle, Maine : Maine Geological Survey, Open-File Map 99-77, map, scale 1:24,000.	99-108
Bartlett Island	16-16	Braun, Duane D., 2016, Surficial geology of the eastern portion of the Bartlett Island quadrangle, Maine : Maine Geological Survey, Open-File Map 16-16, map, scale 1:24,000.	

Showing 1 to 185 of 185 entries


All links on MGS web site point to entry in Digital Maine
 Ex: http://digitalmaine.com/mgs_maps/983/



Demonstration

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Online library of Maine community and State Government collections

 Digital Maine is a service of the Maine State Library

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Maine Geological Survey Maps



Surficial geology of the Alfred quadrangle, Maine

[Craig D. Neil](#)

Download Map (13.1 MB)

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Description

Maine Geological Survey, Open-File Map 99-76

Publication Code

99-76

Publication Date

1-1-1999

Publisher

Maine Geological Survey

Keywords

surficial geology, geomorphology, glacial geology, maps, glaciology, glacial extent, sedimentation, glacial transport, glacial features, landform description, MGS, Alfred quadrangle, York County

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Download includes PDF security, if implemented

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Significant sand and gravel aquifers in the Misery Knob quadrangle, Maine

[Craig D. Neil](#)

[Daniel B. Locke](#)

Download Map (4.2 MB)

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Description

Maine Geological Survey, Open-File Map 98-15

Publication Code

98-15

Publication Date

1998

Publisher

Maine Geological Survey

Keywords

hydrogeology, maps, ground water, surveys, water quality, aquifers, clastic sediments, sand, gravel, water wells, MGS, Misery Knob quadrangle, Somerset County

Related Item

William J. Nichols, Craig D. Neil, Daniel B. Locke, and Michael E. Foley, [Hydrogeology and water quality of significant sand and gravel aquifers in parts of Piscataquis and Somerset Counties, Maine](#)

Map Type

Significant Sand and Gravel Aquifer Maps (scale 1:24,000)

Map Scale

1:24000

Recommended Citation

Neil, Craig D. (compiler), Locke, Daniel B. (mapper), 1998, Significant sand and gravel aquifers in the Misery Knob quadrangle, Maine: Maine Geological Survey, Open-File Map 98-15, map, scale 1:24,000. *Maine Geological Survey Maps*. 18. http://digitalmaine.com/mgs_maps/18

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Some maps have related reports that can be linked to directly



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Hydrogeology and water quality of significant sand and gravel aquifers in parts of Piscataquis and Somerset Counties, Maine

[William J. Nichols](#)

[Craig D. Neil](#)

[Daniel B. Locke](#)

[Michael E. Foley](#)

[Download Full Text \(2.2 MB\)](#)

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Document Type

Text

Description

Maine Geological Survey, Open-File Report 98-2. Accompanies 1:24000 Significant Aquifer Maps

Publication Code

98-2

Publication Date

1998

Publisher

Maine Geological Survey

Keywords

hydrogeology, ground water, surveys, water quality, aquifers, clastic sediments, sand, gravel, water wells, MGS, Patten quadrangle, Piscataquis County, Somerset County

Disciplines

Geology

Map Type

Water Resource Reports To Accompany 1:24,000 Significant Aquifer Maps

Report related to
previous map 98-15

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Maine Geological Survey Maps



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Description
Maine Geological Survey, Open-File Map 98-15

Publication Code
98-15

Publication Date
1998

Publisher
Maine Geological Survey

Keywords
hydrogeology, maps, ground water, survey, sand, gravel, water wells, MGS, Misery Knob

Related Item
[William J. Nichols, Craig D. Neil, Daniel B. Locke, and water quality of significant sand and gravel aquifers in the Misery Knob and Somerset Counties, Maine](#)

Map Type
Significant Sand and Gravel Aquifer Maps (scale 1:24,000)

Map Scale
1:24000

Recommended Citation
Neil, Craig D. (compiler), Locke, Daniel B. (mapper), 1998, Significant sand and gravel aquifers in the Misery Knob quadrangle, Maine: Maine Geological Survey, Open-File Map 98-15, map, scale 1:24,000. *Maine Geological Survey Maps*. 18. http://digitalmaine.com/mgs_maps/18

If item is available for purchase in paper format from MGS, this link will take users to MGS Order Form. Could be integrated with a web shop.

Custom fields can be added with custom domains for classifying publications

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Bedrock geology of the Wiscasset quadrangle, Maine

[David P. West Jr.](#)

[Download Map \(16.6 MB\)](#)

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Description

Maine Geological Survey, Open-File Map 16-27.

Publication Code

16-27

Publication Date

1-1-2016

Publisher

Maine Geological Survey

Keywords

areal geology, geologic maps, bedrock, explanatory text, MGS, Wiscasset quadrangle, Lincoln County, Sagadahoc County, Kennebec County

Supersedes

[92-58](#)

Map Type

Bedrock Geology Maps (scale 1:24,000)

Map Scale

1:24000

Recommended Citation

West, David P., Jr., 2016, Bedrock geology of the Wiscasset quadrangle, Maine: Maine Geological Survey, Open-File Map 16-27, map, scale 1:24,000. *Maine Geological Survey Maps*. 16. http://digitalmaine.com/mgs_maps/16

Publication lineage
can be followed with
supersede links.

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Reconnaissance bedrock geology of the Wiscasset 7.5' quadrangle, Maine

[Donald W. Newburg](#)

Download Map (1.9 MB)

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Description

Maine Geological Survey, Open-File Map 92-58 (Superseded by West, 2016, Maine Geological Survey Open-File 16-27)

Publication Code

92-58

Publication Date

1-1-1992

Publisher

Maine Geological Survey

Keywords

areal geology, geologic maps, bedrock geology, Lincoln County

Superseded by

[16-27](#)

Map Type

Bedrock Geology Maps (scale 1:24,000)

Map Scale

1:24000

Recommended Citation

Newburg, Donald W., 1992, Reconnaissance bedrock geology of the Wiscasset 7.5' quadrangle, Maine: Maine Geological Survey, Open-File Map 92-58 (Superseded by West, 2016, Maine Geological Survey Open-File 16-27), map, scale 1:24,000. *Maine Geological Survey Maps*. 17. http://digitalmaine.com/mgs_maps/17

Publication lineage can be followed with supersede links – backwards or forwards.



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Bedrock geology of the Wiscasset quadrangle, Maine

[David P. West Jr.](#)

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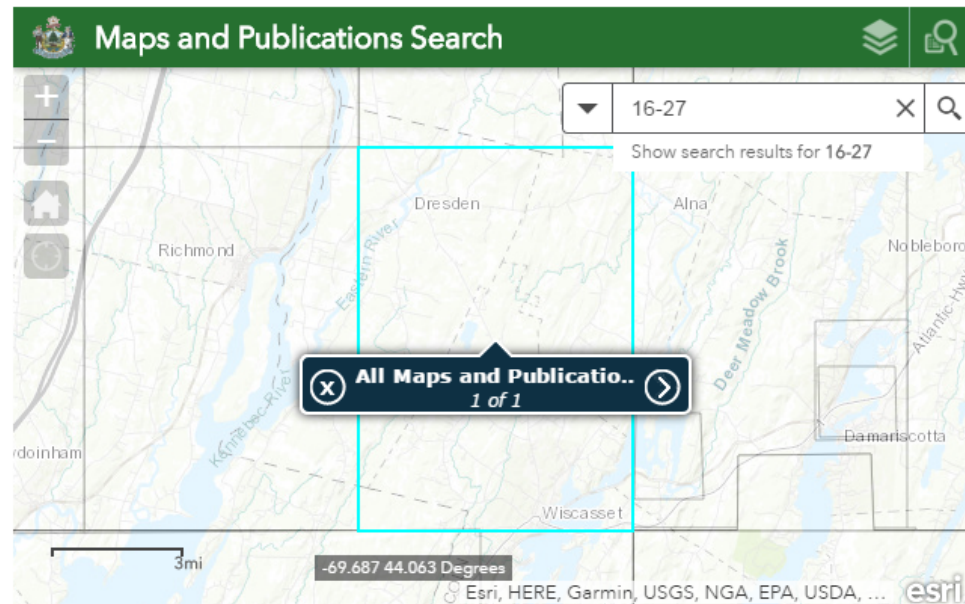
[Buy this Map](#)

Description

Recommended Citation

West, David P., Jr., 2016, Bedrock geology of the Wiscasset quadrangle, Maine: Maine Geological Survey, Open-File Map 16-27, map, scale 1:24,000. *Maine Geological Survey Maps*. 16. http://digitalmaine.com/mgs_maps/16

Embedded interactive web map for spatial context and nearby spatial searches




The screenshot shows the 'Maps and Publications Search' interface. At the top, there is a search bar with the text '16-27' and a magnifying glass icon. Below the search bar, it says 'Show search results for 16-27'. The main area is a map of the Wiscasset area, showing the Eastern River, Deer Meadow Brook, and various towns like Dresden, Alna, and Wiscasset. A pop-up window is overlaid on the map, displaying 'All Maps and Publicatio..' and '1 of 1'. The map includes a scale bar for 3 miles and a coordinate display at the bottom: '-69.687 44.063 Degrees'. The Esri logo is visible in the bottom right corner.

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Maine Geological Survey Maps

Maine Geological Survey is part of the Maine Department of Agriculture, Conservation and Forestry. The Maine Geological Survey provides the people and businesses of Maine with essential geologic information about the land where we live a


Simple search – in this case searches just the Maps collection for any occurrence of search terms

Simple searches also search the full text of the publication, not just the metadata fields.

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Simple search – in this case
searches all the MGS collections
for any occurrence of search terms

Geological Survey

Browse the *Geological Survey* Collections:

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[Bibliography of Maine Geology](#)

[Geology Documents](#)


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Advanced searches allow
limiting the field(s)
searched and date
ranges

Advanced Search



Date range:

Limit search to:

Sort by: Relevance Publication Date


Format:

[Basic](#)

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Maine Geological Survey Maps

Maine Geological Survey is part of the Maine Department of Agriculture, Conservation and Forestry. The Maine Geological Survey provides the people and businesses of Maine with essential geologic information about the land where we live and work.

Note: Many state documents are offered in PDF format. To view PDF documents, you will need the free [Adobe Acrobat Reader](#). If you need assistance, view our Maine government [PDF Help page](#) or contact the contributing Maine State Library. See [the link on the left sidebar under "Links"](#).

Follow a collection
to get updates on
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Surficial geology of the Islesboro quadrangle, Maine

Thomas K. Weddle

Maine Geological Survey, Open-File Map 17-1.

Custom email
notifications based
on search terms

Demonstration - Analytics

Showing:

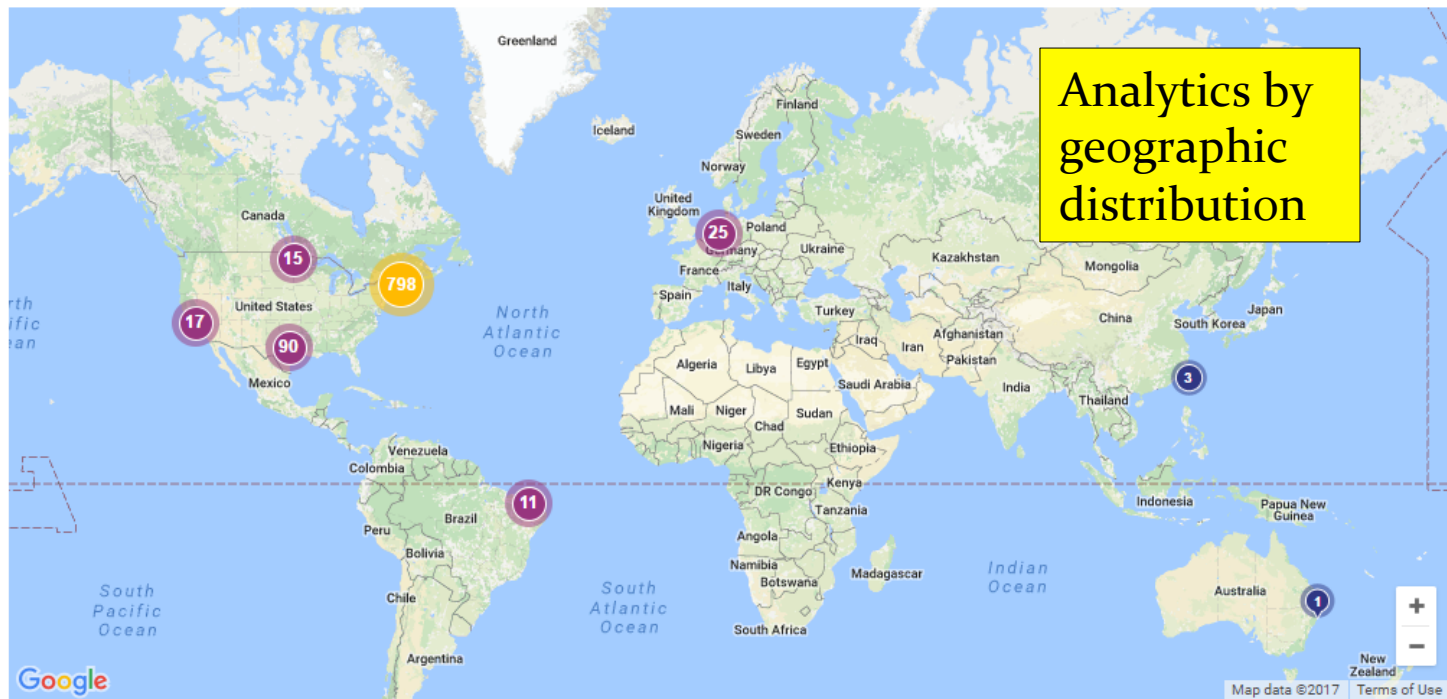
Apr 1, 2017 - May 31, 2017

Works:

Include collected content

Filters



Readership Distribution



Custom Date Range: 04/01/2017 to 05/31/2017

Demonstration - Analytics

Showing:

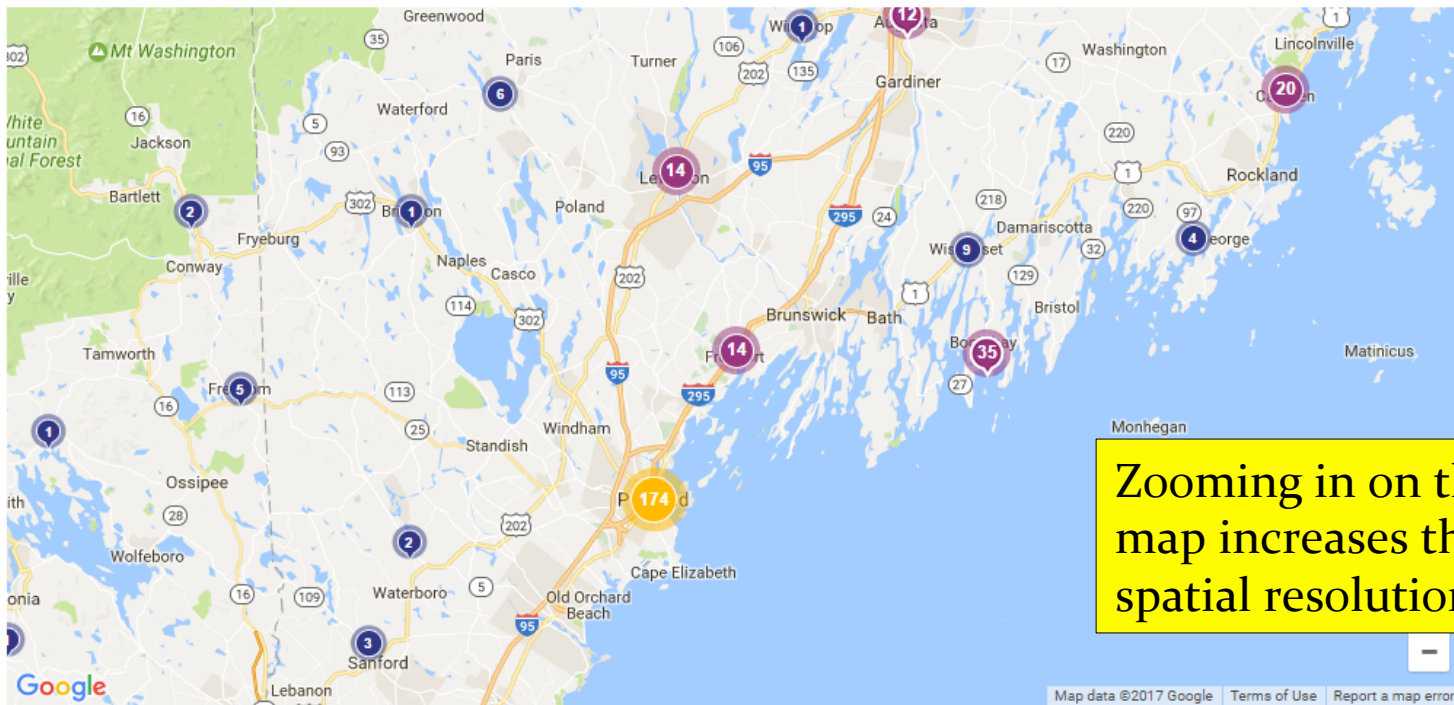
 Apr 1, 2017 - May 31, 2017 

Works:

Include collected content

 Filters

Readership Distribution



Custom Date Range: 04/01/2017 to 05/31/2017

Demonstration - Analytics

Readership from: 🇺🇸 Palermo, Maine, United States

Pivot

Article	Downloads
Coastal landslide hazards in the Southwest Harbor quadrangle, Maine	1
Surficial geology of the Hampden quadrangle, Maine	1
Bedrock geology of the Prouts Neck quadrangle, Maine	1
Bedrock geology of the Brewer Lake quadrangle, Maine	1

Close

Clicking on the map icon shows exactly what was downloaded

Demonstration - Analytics

Showing:

Apr 1, 2017 - May 31, 2017

Works:

Include collected content

Filters

51 Institutions

Commercial Education Government Library Organization



Filter by type:

Show entries

Search: Export

Name	Type	Downloads
> LL Bean	Commercial	9
> Fort Worth Public Library	Library	9
> Communications Design Acquisition Corporation	Commercial	7
> State of Maine	Government	7

Show entries

Search: Export

Article	Downloads
Surficial geologic map of Maine	2
Geologic maps of the Kingfield and Anson [15-minute] quadrangles, Maine	1
Surficial materials of the Molasses Pond quadrangle, Maine	
Surficial geology of the Greenbush quadrangle, Maine	
Surficial geology of the Ellsworth quadrangle, Maine	
Bedrock geologic map of Maine	

> Pennsylvania Mountains Healthcare Alliance LLC	Organization	6
> SW Cole Engineering	Commercial	6
> Vermont Department of Information and Innovation	Government	5

Downloads provided by server for indication of precisely who is using the maps

Demonstration - Analytics

Showing:

Works:

Include collected content

Filters

455 Referrers

Show entries

Search:

Export

Referrer	Downloads
digitalmaine.com/mgs_maps/23/	60
digitalmaine.com/mgs_maps/24/	36
digitalmaine.com/do/search/	26
digitalmaine.com/mgs_maps/1968/	21
digitalmaine.com/mgs_maps/15/	18
digitalmaine.com/mgs_maps/46/	14
digitalmaine.com/mgs_maps/53/	13
digitalmaine.com/mgs_maps/228/	10
digitalcommons.utep.edu/do/search/	10
digitalmaine.com/mgs_maps/1234/	9

Referring sites – shows how a particular collection was accessed

Showing 1 to 10 of 455 entries

Previous

Next

Custom Date Range: 04/01/2017 to 05/31/2017

l.facebook.com/

7



Demonstration - Analytics



Maine State Documents

Christian Halsted



Showing:

Works:

Include collected content

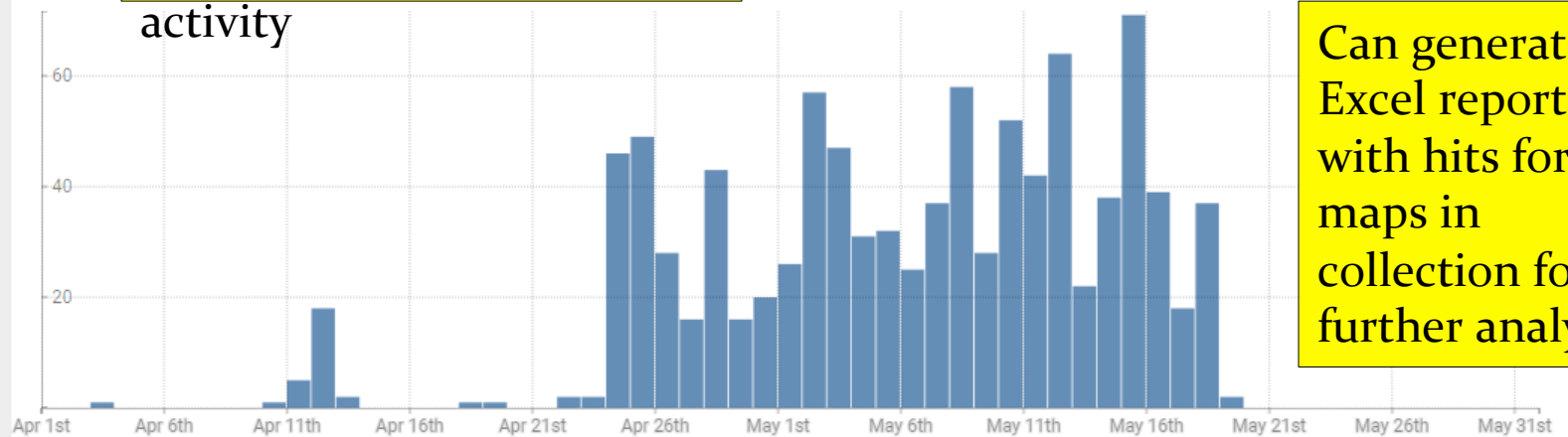
[Filters](#)

977 Downloads

Total PDF download activity

[Generate Report](#)

Include additional files



Can generate Excel reports with hits for all maps in collection for further analysis

Custom Date Range: 04/01/2017 to 05/31/2017

Demonstration - Analytics

Showing:

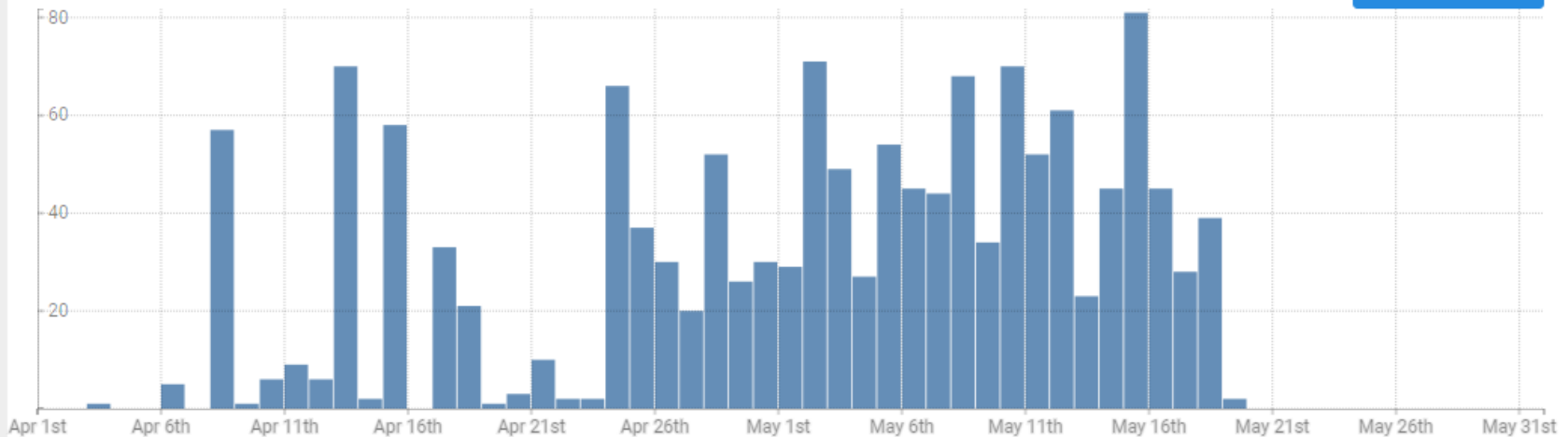
Works:

Include collected content

[Filters](#)

1,415 Metadata Page Hits

[Generate Report](#)



Custom Date Range: 04/01/2017 to 05/31/2017

Shows how many metadata pages were accessed - whether or not the PDF was downloaded.

Demonstration - Analytics

Showing:

Works:

Include collected content

[Filters](#)

2,036 Works

Show entries

Search:

[Export](#)

Title	Downloads
Bedrock geologic map of Maine	73
Simplified bedrock geologic map of Maine	41
Simplified surficial geologic map of Maine	22
Surficial geologic map of Maine	20
Bedrock geology of the Bowdoinham quadrangle, Maine	14
Bedrock geology of the Bangor quadrangle, Maine	14
Bedrock geology of the Kittery 1:100,000 quadrangle, Maine and New Hampshire	11
Bedrock geology of the Portland 1:100,000 quadrangle, Maine and New Hampshire	10
Earthquakes in Maine	9
Significant sand and gravel aquifers in the Brownfield quadrangle, Maine	9

List of all publications and download activity

Showing 1 to 10 of 2,036 entries

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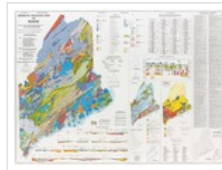
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Maine Geological Survey Maps



Bedrock geologic map of Maine

[Philip H. Osberg](#)


[Arthur M. Hussey II](#)

[Gary M. Boone](#)

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[Download Map](#) (7.6 MB)

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Since April 10, 2017

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Document Type

StillImage

Description

Maine Geological Survey. A 42" x 57", a color wall map showing the bedrock geology of Maine. Ages of rocks in color, lithologies differentiated by patterns, inset map of tectonic features, map of metamorphic zones, correlation chart, and extensive reference list.

Publication Code

BGMM

Publication Date

1-1-1985

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Links

[Maine Geological Survey](#)

Featured Links

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What is Next?

Additional features

- Saved searches
- RSS feeds
- JavaScript plug-in for embedded search capability

Future Uses

- Unpublished/Progress maps collection
- Digital photos w/ geotag
- Scanned photo slide collections
- Storing historical spatial datasets

Summary

- Partnership with Maine State Library has been excellent for MGS. They are the document management and preservation experts.
- Efficiencies in file management, storage, backup, programming. Economies of scale for state agencies.
- Cloud-based tools are available for document management that offer longevity, better search functionality, integration with other products for more exposure.
- A better understanding of who is using our products with precise analytics leads to program justification