

DIGITAL MAPPING TECHNIQUES 2014

The following was presented at DMT'14
(June 1-4, 2014 - Delaware Geological Survey,
Newark, DE)

The contents of this document are provisional

See Presentations and Proceedings
from the DMT Meetings (1997-2014)

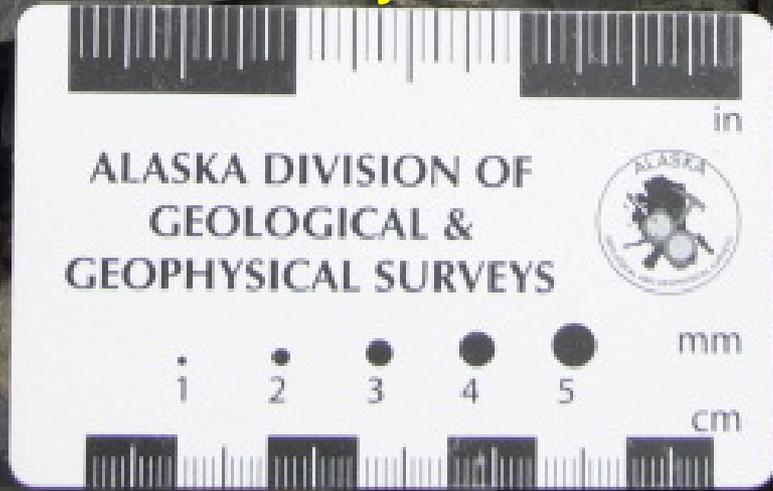
<http://ngmdb.usgs.gov/info/dmt/>

(HINT - click the bubble icon to see slide notes.)



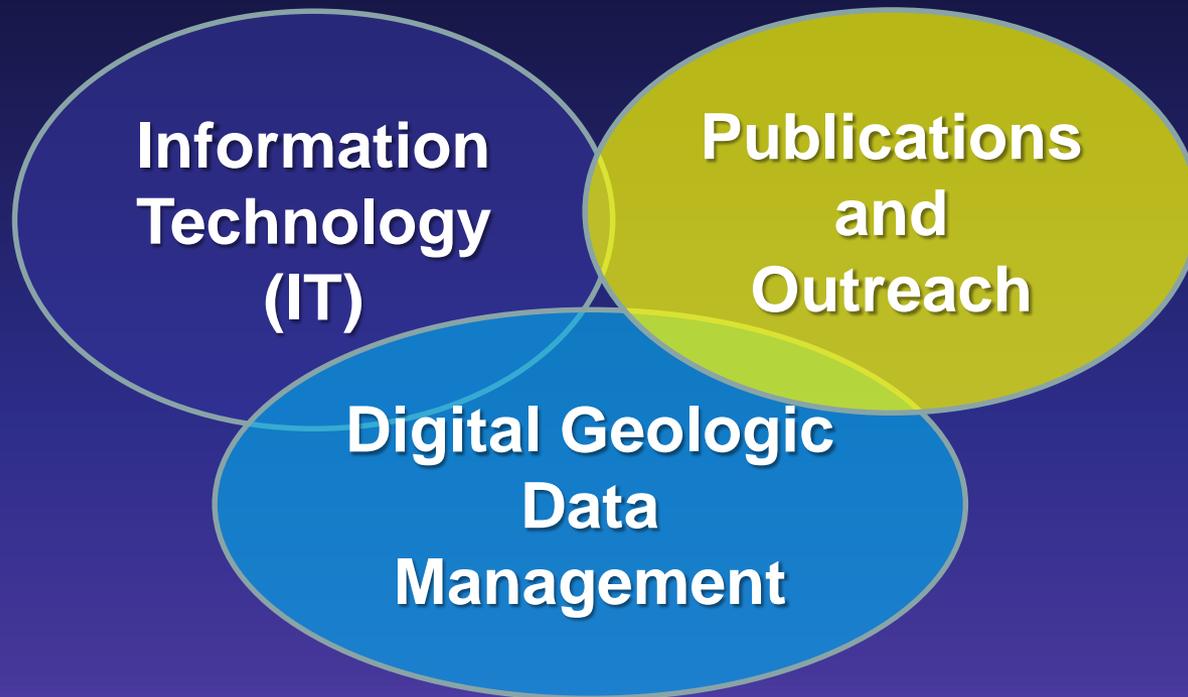
Geologic data processing and delivery at the Alaska geological survey

Jennifer E. Athey and DGGS Staff



Our objectives

1. Disseminate geologic information produced by DGGS
2. Preserve and manage the Division's geologic data
3. Enhance public awareness of Alaska's natural resources and geologic hazards





19 6 90



DGGS Geologic Communications section



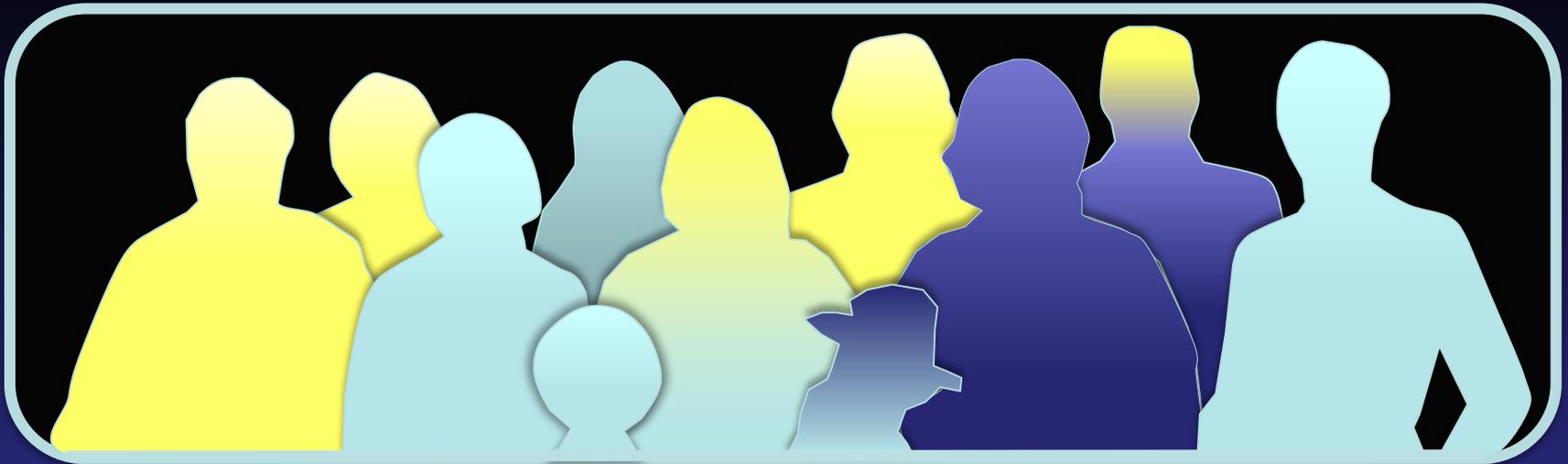
Information
Technology

Pubs and
Outreach

Data
Management



Section members by specialty



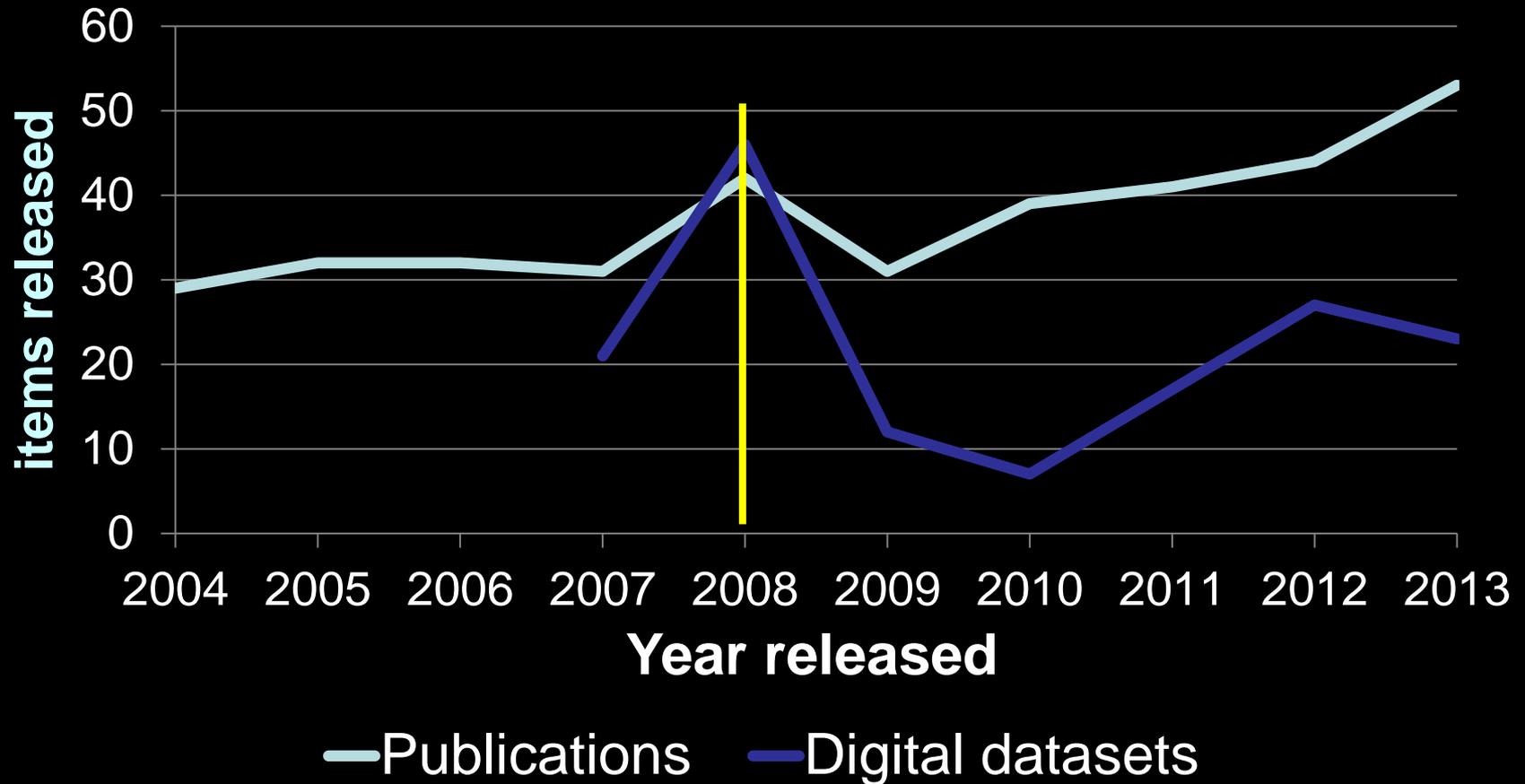
Information
Technology

Pubs and
Outreach

Data
Management



DGGS publication output increasing



Big push to release legacy data



How a publication is published

1) Pre-pub meeting

- Should be done prior to work on the map
- Schedule though Joni

2) Section Chief signs approval on info sheet

3) Author does **GIS work and analytical data**

- Coordinate with Trish for GIS design and GIS help
- Coordinate with Simone for analytical stuff (like tables)

4) Author gives Trish GIS files , Trish creates **preliminary layout**

- See Map Sheet Checklist for what to “hand in” to Trish
- Trish will check for topological errors, NCGMP09/FGDC compliance, etc.
- Corrections to geodatabase may need to be made by author
- Author will get to see preliminary layout before it goes to next step

5) Author gives manuscript to Joni

6) Paula completes first **edit of text and map sheet**

7) Section Chief approves map/text and makes comments

8) Author makes section chief corrections

- Changes to geology must be made by author
- Trish will make changes to layout and update most recent geology from author

9) Joni sends map to peer review

10) **Peer reviews** make comments and give back to Joni

11) Joni passes comments to authors

12) Author accepts comments or justifies not doing them, makes corrections

- May require GIS work

13) Joni takes revised map to Paula for editing

14) Corrections are made

15) **Final approval** and comments from Author, Section Chief, Paula, and Director

16) **Final corrections** are made

- May require GIS work

17) Publication number is assigned and put on map sheet

18) Joni publishes map

19) Geodatabase is converted to shape files

20) Simone works on **metadata**

21) Final D3 package is reviewed and approved

22) **D3 is released**

Data collection and analysis
Pre-pub meeting
GIS layout and data review
Edit of text and layout
Peer review
Final editing
Approvals
Metadata
Data is released
(Archiving)

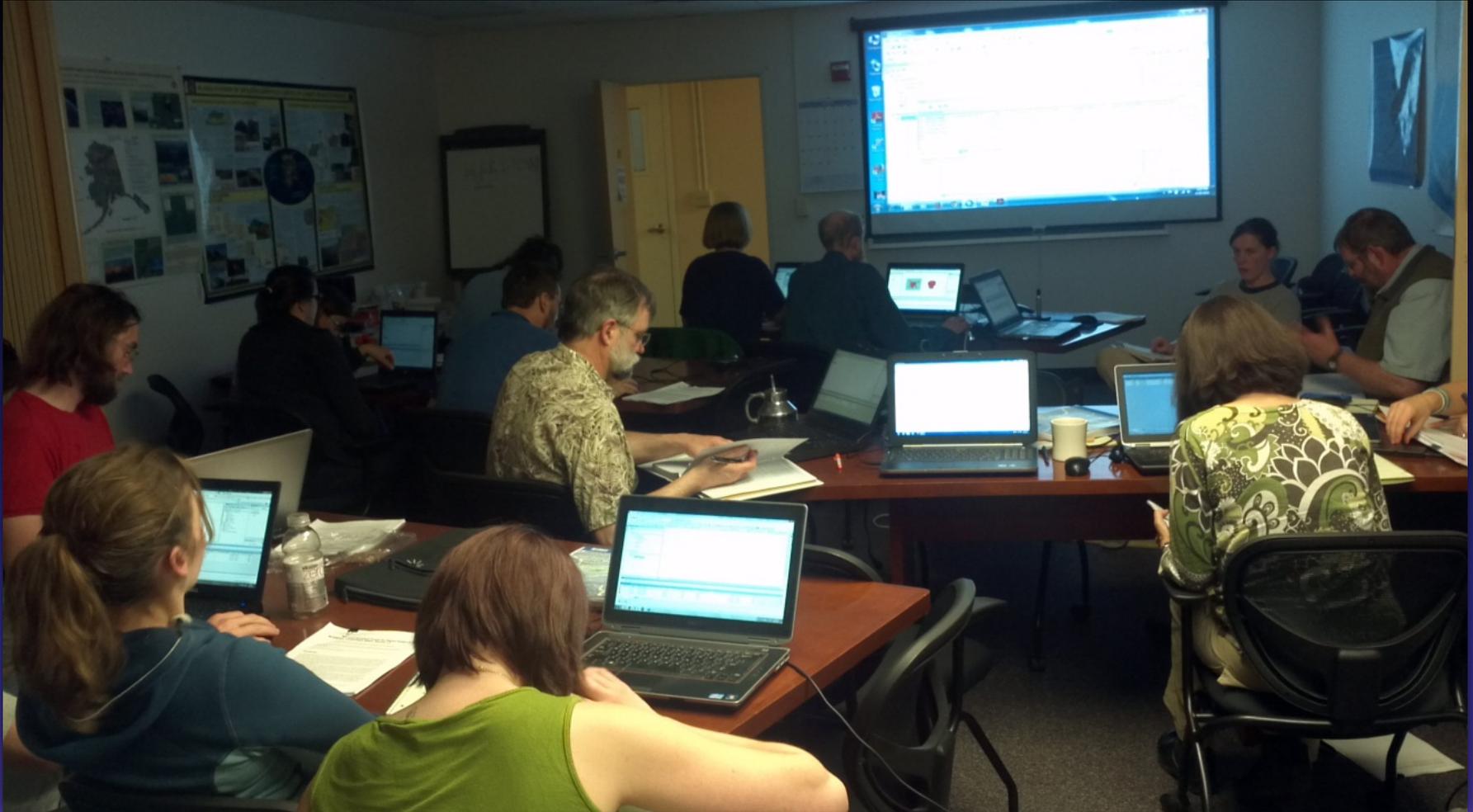


Pre-publication meeting

DGGS Priority	Author/ DGGS Herder	Pub Type	Working Title	Status	Step in Pub Process	Date Updated	Section	PUBLICATIONS PROCESS STEPS
1.0	GILLIS	PIR	Iniskin Project (edited volume)	Paula completed first edit; back to Gillis for checking, then to reviewer.	11	2/12/2014	Energy	1 Conduct pre-publication meeting to discuss all aspects of publication process
1.0	GILLIS	RI*	Sag bedrock geologic map	To Paula for edit.	25	4/23/2014	Energy	2 Report info sheet & section chief signature (Joni)
1.0	GREGERSEN	RI	Cook Inlet Mesozoic subcrop map	Laura working on GIS files; now her first priority. Met with Simone and Trish to talk about GIS organization. Andrea will put in NCGMP09 when she received files	6	2/4/2014	Energy	3 Author coordinates GIS file design with Trish
1.0	HERRIOTT	RI	Gilead geologic map (Sag A-2 and B-2 quads)	Manuscript and figures ~85% complete; geologic map complete in GIS; the non-NCGMP09 GIS files were completed with direct input from Weakland; any attempt at standardizing this "legacy" map warrants further discussion between the publication and energy groups.	3	2/4/2014	Energy	4 Author coordinates with Simone on design of any analytical data (CSVs or other tables). Author is provided template; Author expected to follow suggested format or discuss changes with Simone.
1.0	WARTES	RI	N Slope Upper Cretaceous Stratigraphy (E North Slope)	Writing has not begun yet. Deadline for submission is Feb., 2014	0	2/4/2014	Energy	5 Author creates GIS or analytical files
			North Slope Compilation, X-section (well	Decker/Wartes, X-section plate done, awaiting introductory text by 2014	0	2/4/2014	Energy	6 Author provides Trish with GIS files; Trish create preliminary layout, give to Joni for first edit
				eds to address Dick's changes	2 & 5	3/7/2014	EngGeo	7 Author provides Simone with analytical data (CSV or other tabular data) for functionality check
				st part co-author review done by y April	0	3/6/2014	EngGeo	8 Author completes draft manuscript, notifies Joni that files are ready, provides peer reviewer info
				culating the process-step and nuscript in preparation 3/2014 -	8-9	3/7/2014	EngGeo	9 Joni checks manuscript formatting, references. Manuscript to Paula for first edit; provide directory information for other relevant files.
				ore going to reviewers (Owen	15	2/4/2014	EngGeo	10 Paula completes first edit of text, figures, captions, tables. Works directly with author to resolve questions. Sends figures to Trish for review. Passes edited files on to Author.
				bathymetry RDF publication and ember; investigating online	0	2/4/2014	EngGeo	11 Joni/Paula ensure Trish receives figures. Trish works with author then passes final figures on to Joni.
				reports written. Report pending	0	2/4/2014	EngGeo	12 Author reviews edits, accepts good edits, marks unacceptable edits, and returns to Paula.

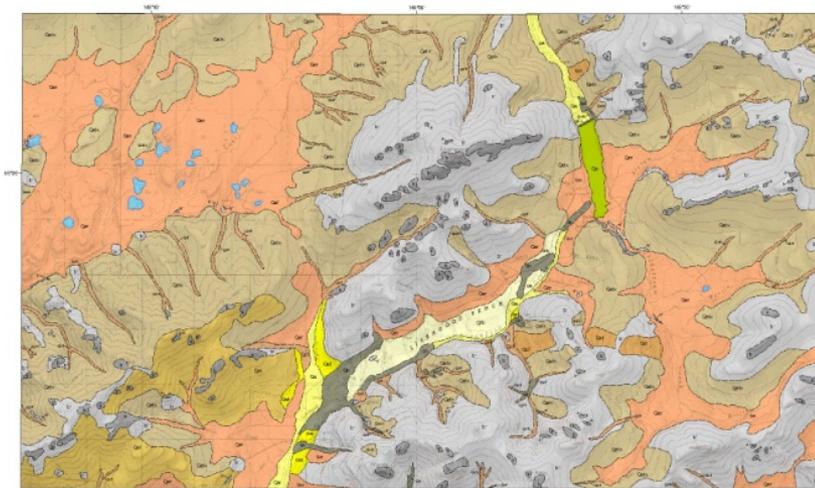


GIS data standardization



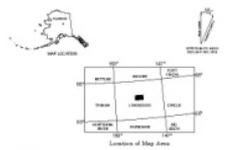
GIS data review and layout

ALASKA DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS



SURFICIAL-GEOLOGIC MAP OF THE LIVENGOOD AREA, CENTRAL ALASKA

by
RD. Raper and P.C. Dunlap



Alphabetical
 *Raper, Douglas, Corralville, P.O. Box 1096, Chitina, Alaska 99768
 *Dunlap, Donald, 1000 W. 10th St., Anchorage, Alaska 99501
 *Alaska Division of Geological & Geophysical Surveys, 2004 College Road, Fairbanks, Alaska 99709-2002
 *Boulder Geomorphology, LLC, P.O. Box 2023, Fairbanks, Alaska 99701-2023

Topographic base map files:
 1) USGS Digital Elevation Model (DEM) files
 2) USGS 1:250,000 Topographic Maps
 3) USGS 1:50,000 Topographic Maps
 4) USGS 1:250,000 Topographic Maps
 5) USGS 1:50,000 Topographic Maps
 6) USGS 1:250,000 Topographic Maps
 7) USGS 1:50,000 Topographic Maps
 8) USGS 1:250,000 Topographic Maps
 9) USGS 1:50,000 Topographic Maps
 10) USGS 1:250,000 Topographic Maps

EXPLANATION

This map shows the distribution of surficial deposits and sedimentation related to the Livengood 0-2 and 0-4 earthquakes. Various mapping units were assigned by interpreting 1:50,000 scale, 1:250,000 scale, and 1:250,000 scale topographic maps in August 1993 and August 1994, and aerial photos for the area of field mapping in 1993 and the 1994. This map was prepared in the Alaska Division of Geological & Geophysical Surveys, Fairbanks, Alaska, in 1994. Additional fieldwork is reported in publications and reports. Additional mapping was completed by Raper and Dunlap (1994) and others (1994).

DESCRIPTION OF MAP UNITS

UNCONSOLIDATED DEPOSITS

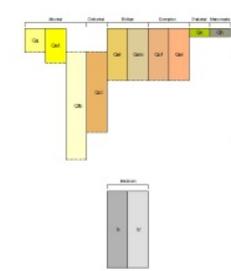
ALLUVIAL DEPOSITS

- UNDIFFERENTIATED ALLUVIUM—Clearly moderately to well-sorted, rounded, polyhedral, pebbles, cobbles, and boulders, sand, and silt comprising channels and outwash fans of generally small streams. Some of the local outwash may consist of subglacial, locally continuous outwash. It is discontinuously thin and is not mappable on this scale.
- PERCHIC ALLUVIUM—Clearly moderately to well-sorted pebbles and cobbles, sand, and silt, and local thin silty clay layers. It is the youngest thin outwash, which is highly aerated. Clays are 1 to 2 m thick and locally thin. Locally covered by a thin layer of reworked material. It is mappable on this scale. Clays are thin and discontinuous. It is mappable on this scale.
- BROWN ALLUVIUM Qf—Locally aerated, coarse and well-sorted pebbles that are present on broad benches and alluvial fans. It is the youngest thin outwash, which is highly aerated. Clays are 1 to 2 m thick and locally thin. Locally covered by a thin layer of reworked material. It is mappable on this scale. Clays are thin and discontinuous. It is mappable on this scale.

GLACIAL DEPOSITS

- LABELLED DEPOSITS—Glacial deposits, which consist of moraine deposits and other glacial deposits. They are mappable on this scale.

CORRELATION OF MAP UNITS



EXPLANATION OF MAP SYMBOLS

- SWAMP DEPOSIT—Swamp deposit of silt and organic material in swampy areas. It is mappable on this scale.
- FLUOR TALUS AND ARTIFICIAL FILL—Soft gravel used for angular talus and artificial fill. It is mappable on this scale.
- EXPONDED BEDROCK—Gravel and rubble that show no evidence of folding.
- THINLY COVERED BEDROCK—Bedrock covered by 0.5 to 1 m of sand and silt, and mappable on this scale.

RELATION DEPOSITS

- LOOSE—Unsorted, generally 1 to 10 m thick, coarse, well-sorted sand and silt, and local thin silty clay layers. It is the youngest thin outwash, which is highly aerated. Clays are 1 to 2 m thick and locally thin. Locally covered by a thin layer of reworked material. It is mappable on this scale. Clays are thin and discontinuous. It is mappable on this scale.
- FRESH LIGNS WITH CONSIDERABLE BRINE—0.5 to 1 m thick, sand and silt, and local thin silty clay layers. It is the youngest thin outwash, which is highly aerated. Clays are 1 to 2 m thick and locally thin. Locally covered by a thin layer of reworked material. It is mappable on this scale. Clays are thin and discontinuous. It is mappable on this scale.

COMPLEX DEPOSITS

- NEED COLLOIDAL AND ALLUVIUM—Frequently elongate, coarse to poorly sorted, angular to sub-angular, well-sorted to poorly sorted, sand, silt, and clay, and local thin silty clay layers. It is the youngest thin outwash, which is highly aerated. Clays are 1 to 2 m thick and locally thin. Locally covered by a thin layer of reworked material. It is mappable on this scale. Clays are thin and discontinuous. It is mappable on this scale.
- REWORKED SILT AND SAND—Locally aerated, coarse to poorly sorted, angular to sub-angular, well-sorted to poorly sorted, sand, silt, and clay, and local thin silty clay layers. It is the youngest thin outwash, which is highly aerated. Clays are 1 to 2 m thick and locally thin. Locally covered by a thin layer of reworked material. It is mappable on this scale. Clays are thin and discontinuous. It is mappable on this scale.

PEDIMENTAL DEPOSITS

- SWAMP DEPOSIT—Swamp deposit of silt and organic material in swampy areas. It is mappable on this scale.

MAN-MADE DEPOSITS

- FLUOR TALUS AND ARTIFICIAL FILL—Soft gravel used for angular talus and artificial fill. It is mappable on this scale.

BEDROCK

- EXPONDED BEDROCK—Gravel and rubble that show no evidence of folding.
- THINLY COVERED BEDROCK—Bedrock covered by 0.5 to 1 m of sand and silt, and mappable on this scale.

REPORT OF INVESTIGATIONS 2013-2
 Raper and Dunlap, 2013
 SHEET 1 OF 1

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1996. Geologic maps of the Alaska-Anchorage Basin. U.S. Geological Survey Bulletin 1511, 11 p.

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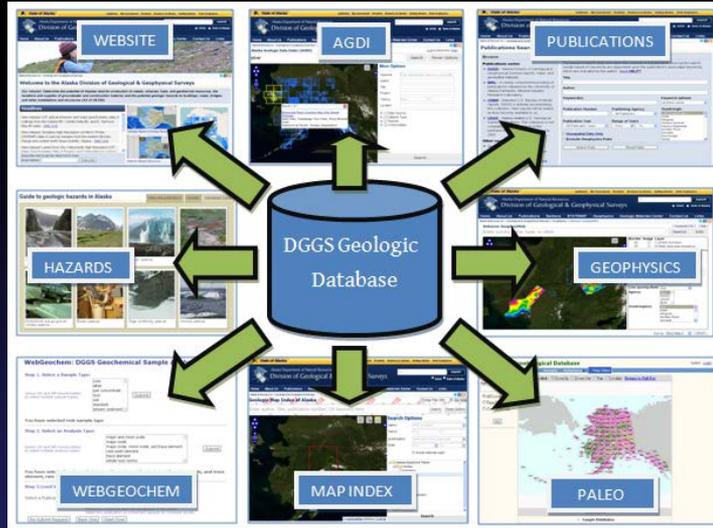
Williams, J.E., 1981. Geologic reconstruction of the Yukon basin, Alaska. U.S. Geological Survey Bulletin 1113, 14, 1:30-35.

ACKNOWLEDGMENTS

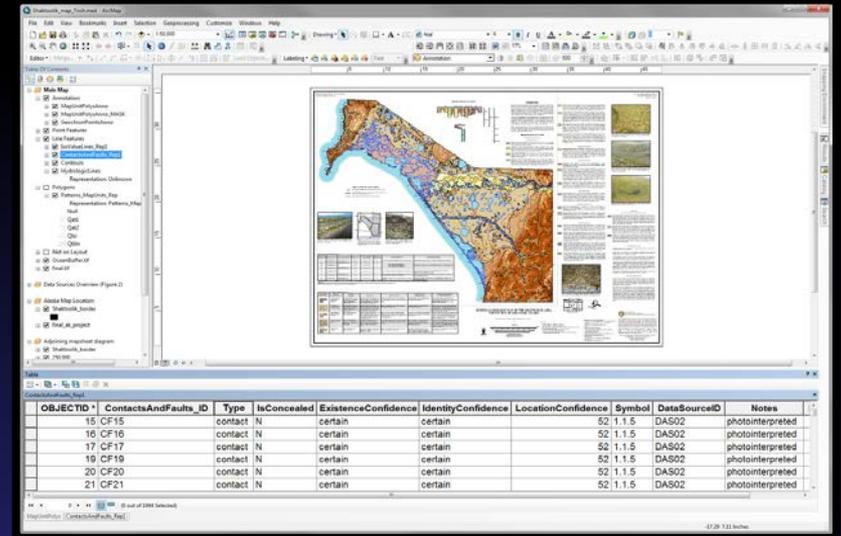
We thank the staff of the Alaska Division of Geological & Geophysical Surveys for their help and support in preparing this report. Special thanks go to the staff of the Alaska Division of Geological & Geophysical Surveys, Fairbanks, Alaska, for their help and support in preparing this report. Special thanks go to the staff of the Alaska Division of Geological & Geophysical Surveys, Fairbanks, Alaska, for their help and support in preparing this report. Special thanks go to the staff of the Alaska Division of Geological & Geophysical Surveys, Fairbanks, Alaska, for their help and support in preparing this report.

Oracle

ArcSDE



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Peer review, editing, and approvals



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C 348 (13525)

Citation Information

Publication Date*

-Month- -Day- 1954

Title*

Reconnaissance for radioactive
deposits in eastern Alaska, 1952

Authors* [Add New](#)

ALRCo.
ALS Chemex
ALS Minerals
AMAX
AMEX

Nelson, A. E.
West, W. S.
Matzko, J. J.

Pages Sheets Disks

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none

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Metadata



Geological & Geophysical Surveys Alaska Department of Natural Resources

[State of Alaska](#) > [Natural Resources](#) > [Geological & Geophysical Surveys](#) > [DGGS Internal Home](#)

DGGS Metadata Documentation

Contact: Simone Montayne, Geologist, Geologic Communications
Email: simone.montayne@alaska.gov
Phone: 451-5036

This page contains information that may be useful when you have questions about metadata and software that can be used to help you during the process. Metadata consist of information that characterizes data and are used to provide documentation for data products. In this section, we cover what, when, where, why, and how about every facet of the data that are being distributed. For more information, see the section below for more information. Starting May, 2006, metadata will be distributed in formats that allow maximum readability and usability: FAQ HTML, ASCII plain text, and XML. Examples of metadata formats can be found in the section "Documents, FAQs, and Examples."



Documents, FAQs, and Examples

DGGS-Specific Information

Please take the time to look through the documents below, as changes may have occurred since the last time you wrote metadata.

1. [Detailed checklist and suggested workflow](#)
2. [Basic checklist \(KP author\)](#) for quality-checked metadata.
3. [Questions](#) (PDF: 25Kb) that should be answered in your metadata. The *Data_Quality_Information* section of your project.
4. The [DGGS-specific changes](#) (PDF: 24Kb) that have been incorporated into the template and [extension to GEOCHRONOLOGY and GEOCHEMISTRY](#) run MP from the command line, this needs

Theme Keywords

Hiatella
High Pressure Mercury Injection Capillary Pressure
Highest Hit Digital Surface Model (DSM)
Highstand
Hillshade Image
Hippocrepina
Historic Eruption
Historic Mine
Historic Resources
Holmium
Horizontal Gradient
Hornblende
Hornfels
Honor Hot Springs
Horse Fossils
Hot Springs

Enter

Theme Choices

Actinolite
Honor Hot Springs
Historic Mine



Publication packaging

Archive Root Directory

Step 1: If the archive root directory indicated below is NOT correct, enter the correct directory in the text box and click the *Change Directory* button. To browse all archive directories, enter `/storage/library/` directly or [email the D3 help team](#) to determine the correct archive root directory of your dataset.

Step 2: Using Ctrl and/or Shift, like in Windows Explorer, drag and drop a single file or multiple files from the *Library* directory tree on the left onto the associated layer name in the right hand tree. Indexing all metadata files (.XML, .TXT, .FAQ.HTML) and unit code sets (if applicable) into the *metadata* layer is required.

Step 3: Files are shown here. To remove the files, click the *Remove* button and to save the files, click the *Save* button.

Library Archive

- lidar
- + kenny
- + rdf2011-3
- + rdf2013-3
- + rdf2014-2
- sync_to_pluto_exclude_list.txt
- + usgs

Indexed Files

- Indexed files by layer
 - Base Layer
 - Overlays
 - Web Map Service
 - metadata

DGGS Digital Data Distribution (D3) Application

Please enter your LDAP username and password to enter the Digital Geospatial Data Application. This is the same username and password used to access your email.



! Come back again soon!

Username:

Password:





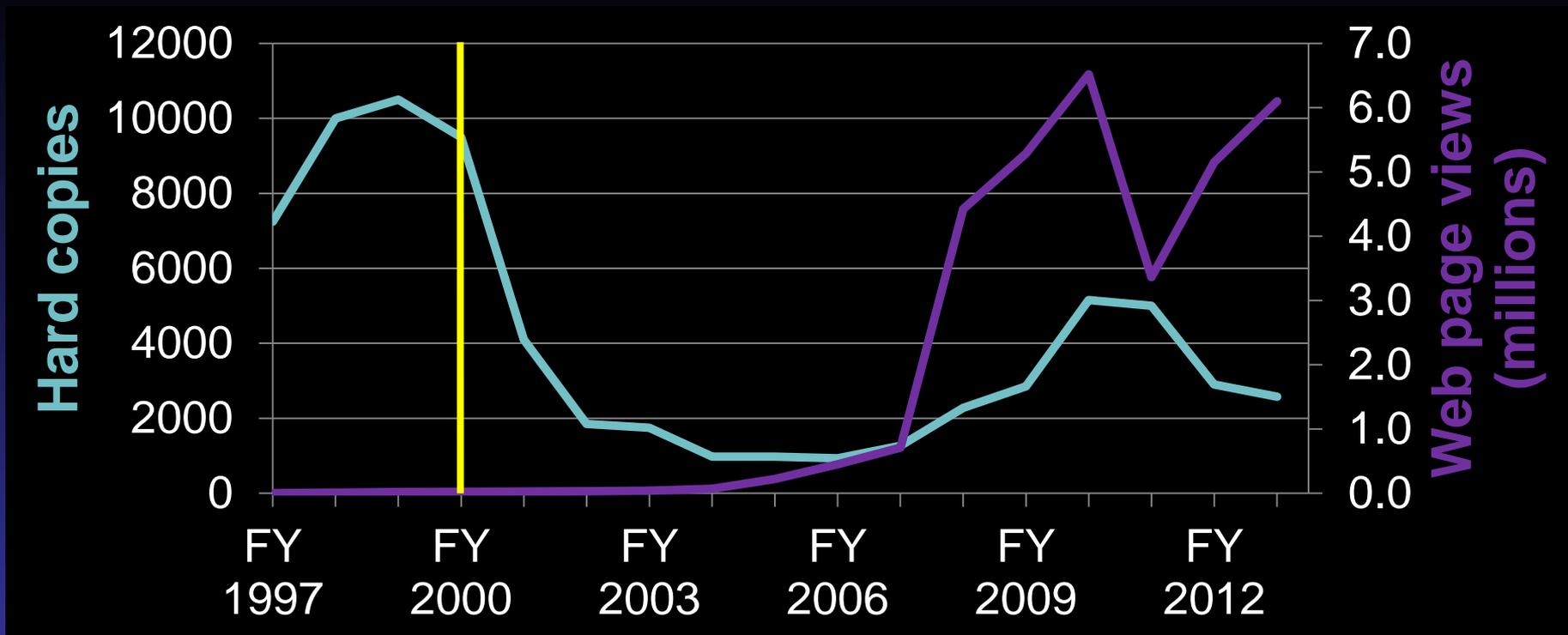
Data distribution paths

Arrows show the direction of contact





DGGS information distribution



Free online publications



Website development

State of Alaska myAlaska My Government Resident Business in Alaska Visiting Alaska

Alaska Department of Natural Resources
State Employees
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Natural Resources > Geological & Geophysical Surveys

Welcome to the Alaska Division of Geological & Geophysical Surveys

Our mission: Determine the potential of Alaskan land for production of metals, minerals, fuels, and geothermal resources, the locations and uses of groundwater and construction material, and the potential geologic hazards to buildings, roads, bridges, and other installations and structures (AS 41.08.020).

Publications Highlights

- Release! Historically active volcanoes of Alaska - [MP 133 v. 1.2](#)
- Release! 40Ar/39Ar data, Alaska Highway corridor from Delta Junction to Canada, parts of Mount Hayes, Tanacross, and Nabesna quadrangles, Alaska - [RDF 2013-8](#)
- Release! Hydrocarbon-show evaluation report for the Kuparuk River Unit #2K-10, Kuparuk Pt. #32-25, Long Island #1, NW Eileen St. #1, Sak River #1, W. Sak River St. #33-29E, and W. Kuparuk St. #3-11-11 wells - [GMC 421](#)
- Release! X-Ray fluorescence spectroscopy and 40Ar/39Ar analyses of core from the Trading Bay Unit Test #1, Gubik Test #2, Square Lake Test Well #1, Umiat #2, Umiat #9, and Umiat Well #11 wells - [GMC 420](#)
- Release! Spatially referenced oblique aerial imagery of the Port Heiden shoreline, Alaska - [RDF 2013-10](#)
- Release! X-Ray diffraction analysis of cuttings samples from the Trading Bay Unit Test #1 well - [GMC 419](#)

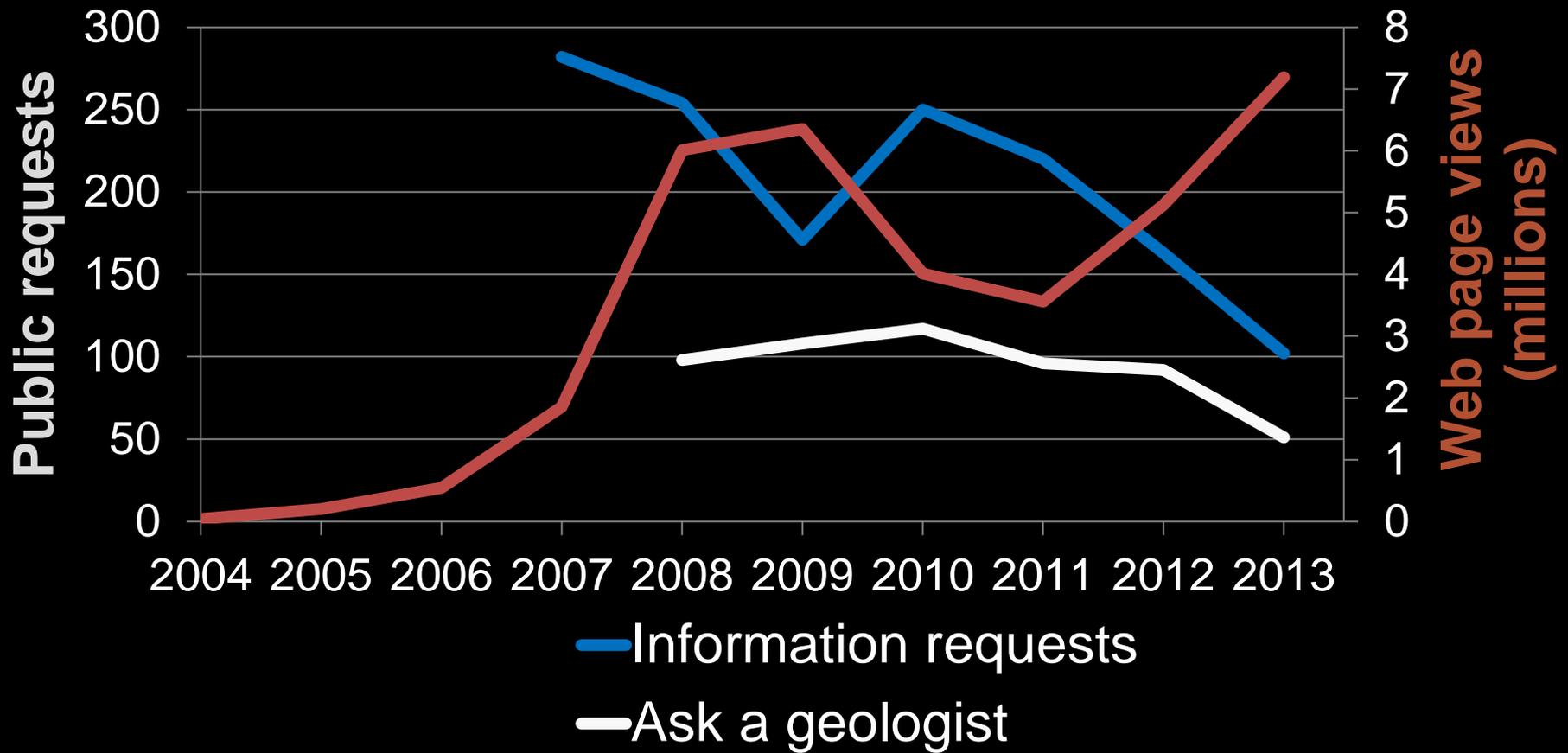
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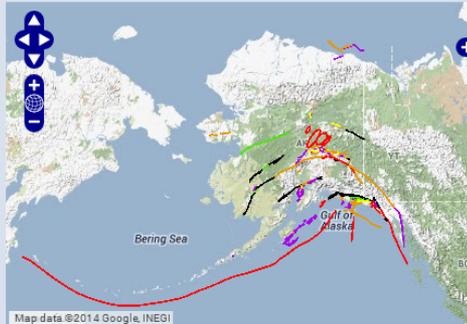
Online information satisfies customers?



DGGS MP 141

Publication Details

Title: Quaternary faults and folds in Alaska: A digital database
Authors: Koehler, R.D., Farrell, Rebecca-Ellen, Burns, P.A.C., and Combellick, R.A.
Publication Date: Jul 2012
Publisher: Alaska Division of Geological & Geophysical Surveys
Total Price: \$16.00
Ordering Info: Download below or please see our [publication sales page](#) for more information.
Quadrangle(s): Alaska Statewide
Keyword(s): Active Fault; Alaska Statewide Maps; Alaska, State of; Earthquake; Engineering; Faulting; Faults; Folds; Geology; Hazards; Paleoseismology; Quaternary; geoscientificInformation



Bibliographic Reference

Koehler, R.D., Farrell, Rebecca-Ellen, Burns, P.A.C., and Combellick, R.A., 2012, Quaternary faults and folds in Alaska: A digital database, in Koehler, R.D., Quaternary Faults and Folds (QFF): Alaska Division of Geological & Geophysical Surveys Miscellaneous Publication 141, 31 p., 1 sheet, scale 1:3,700,000, <http://dx.doi.org/10.14509/23944>.

Publication Products

Report Information

[mp141.pdf](#) (202.0 K)
 This publication is part of a larger work. Please see [DDS 3](#) for more information.

Maps & Other Oversized Sheets

[Sheet 1](#) Alaska's Quaternary faults, scale 1:3,700,000 (63.0 M)

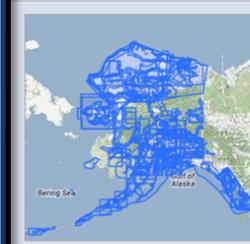
Digital Geospatial Data

Quaternary faults and folds	Data File Format	File Size	Info
Download quaternary-faults-folds	Vector data shape files	431.3 K	Metadata - Read me

[Top of Page](#)

notes, drill logs, and other unpublished geology-related data.

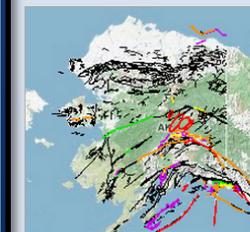
[See citation details for Alaska Geologic Data Index \(AGDI\)](#)



LIDAR Datasets of Alaska

This interactive map displays known public-domain LIDAR datasets of Alaska.

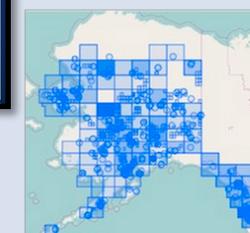
[See citation details for LIDAR Datasets of Alaska](#)



Historically Active Volcanoes of Alaska

This interactive map displays the location of historically active volcanoes of Alaska.

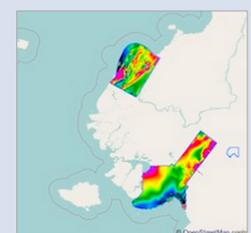
[See citation details for Historically Active Volcanoes of Alaska](#)



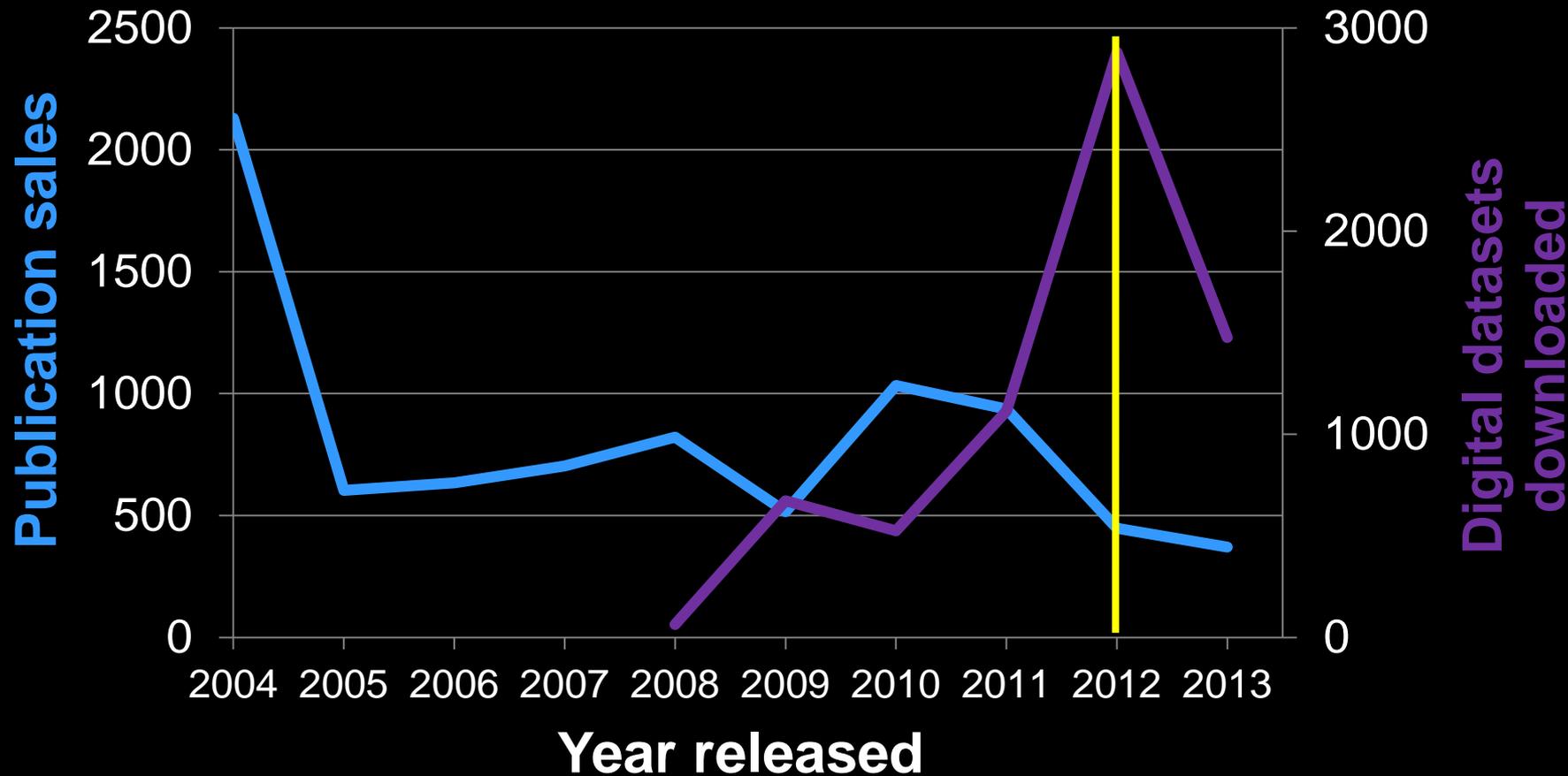
Airborne GeophysWeb

This interactive map is a compilation of publicly available airborne geophysical surveys conducted in Alaska since 1993 by DGGS and other cooperating agencies. The geophysical data images are not yet available.

[See citation details for Airborne GeophysWeb](#)



Meeting the demand for online data



LiDAR data release





Alaska Geologic Data Index

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silver Search More Options

Chukchi Sea
Alaska
Yukon
Northwest Territories
Bering Sea

Google
Map data ©2014 Google, SK planet, ZENRIN

Search Results

Showing 500 | Displaying 1 - 500 of 1009 | Previous | 1 2 3 | Next

Title / Author(s)	Year	Dataset Type
Plate 2: Claim Map, Silver Falls Group		Administrative
Silver Falls Group	1932	Administrative
Silver Falls Group, Alaska	1932	Analytical Laboratory
Kantishna River B5 silver Anomaly Overlay <i>Anaconda Minerals Company</i>		Analytical Laboratory

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Search Datasets

—Data Originator—
Title: Plate 2: Claim Map, Silver Falls Group
Authors:
Years:
Project:

—Data Source—
Contact/Organization: Reference Services, ARLIS (Alaska Resource Library and Information Service)
 3211 Providence Dr., Suite 111, Library Building, Anchorage, AK, 99509
 907-272-7547

—Reference Information—
Repository Storage Location: Alaska GMC
Catalog Number: T-ANAC-46-M3854
Estimated Size and Item Units: 1:360
URL:
Media Types: Paper

—Availability—
Access Type: public
Remarks: The Alaska Geologic Materials Center is to be the repository for the oversize Anaconda collection maps and plates that are to be donated to the University of Alaska Anchorage (June 2003) by CIRI and administered by the ARLIS library. ARLIS is a partnership of eight Alaska State and Federal natural and cultural resource libraries and information centers. ARLIS is the repository for State and Federal Minerals Resource information as well as various private mineral information collections. CIRI (Cook Inlet Region, Inc.) has donated mineral information reports and maps collected by Anaconda Minerals Co. in Alaska outside of the CIRI region to the University of Alaska Anchorage. A more detailed database index of these files including digital images of the map and plate records is available through ARLIS. Access to these maps and plates will be on a controlled basis administered through ARLIS. Interested parties should contact ARLIS reference services and not the Geologic Materials Center.

—Dataset Information—
Dataset Type: Administrative
Description: Shows creeks and borders of claims in the Silver Falls area. Shows mineralized zones with analysis results; Includes a geologic index map
Themes:
Commodities: Gold, Silver

—Compilation Information—
Compiler/Organization: Faust, Matt
Review Date:

—Geographic Location—
Quadrangle: Juneau B-1

Bounding Box (upper left):
Bounding Box (lower right):
 OR
Geographic Center of Dataset:
Area of Dataset: less than 1 sq. km
Estimated Location Accuracy:
Datum: NAD27

Place Names: [Icy Gulch](#) [Ptarmigan](#) [Silver Falls](#)
Mining District:

m3854.jpg



“Scans of the CIRI-Anaconda maps acquired from the GMC will save my client over a **hundred thousand dollars** worth of helicopter-supported geological mapping this field season, allowing us to focus our efforts and free-up more funds for drilling and potential discovery.”

— *Anonymous geologic consultant*



