DIGITAL MAPPING TECHNIQUES 2023

The following was presented at DMT'23
May 21 - 24, 2023
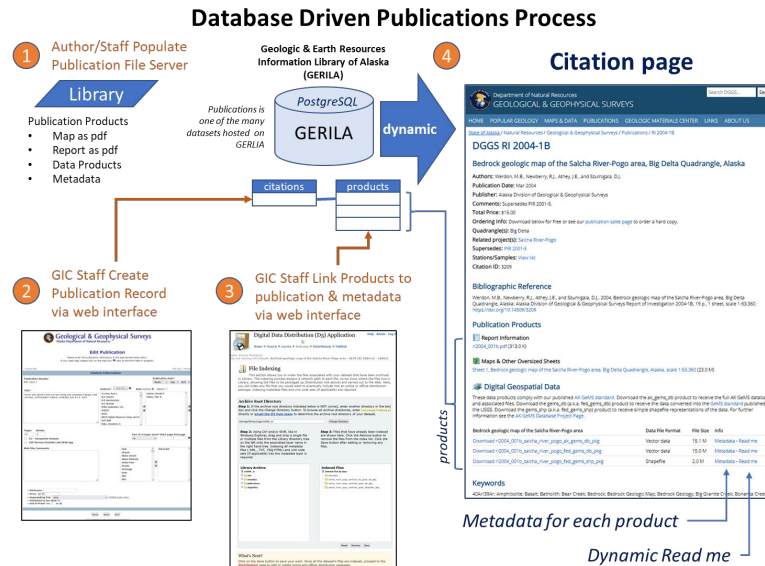
The contents of this document are provisional

See Presentations and Proceedings
from the DMT Meetings (1997-2023)

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

The Publication and Distribution Process at Alaska DGGS

DMT 2023

21-24 May 2023

Mike Hendricks, Simone Montayne, Sue Seitz, Kristen Janssen

Alaska Division of Geological & Geophysical Surveys
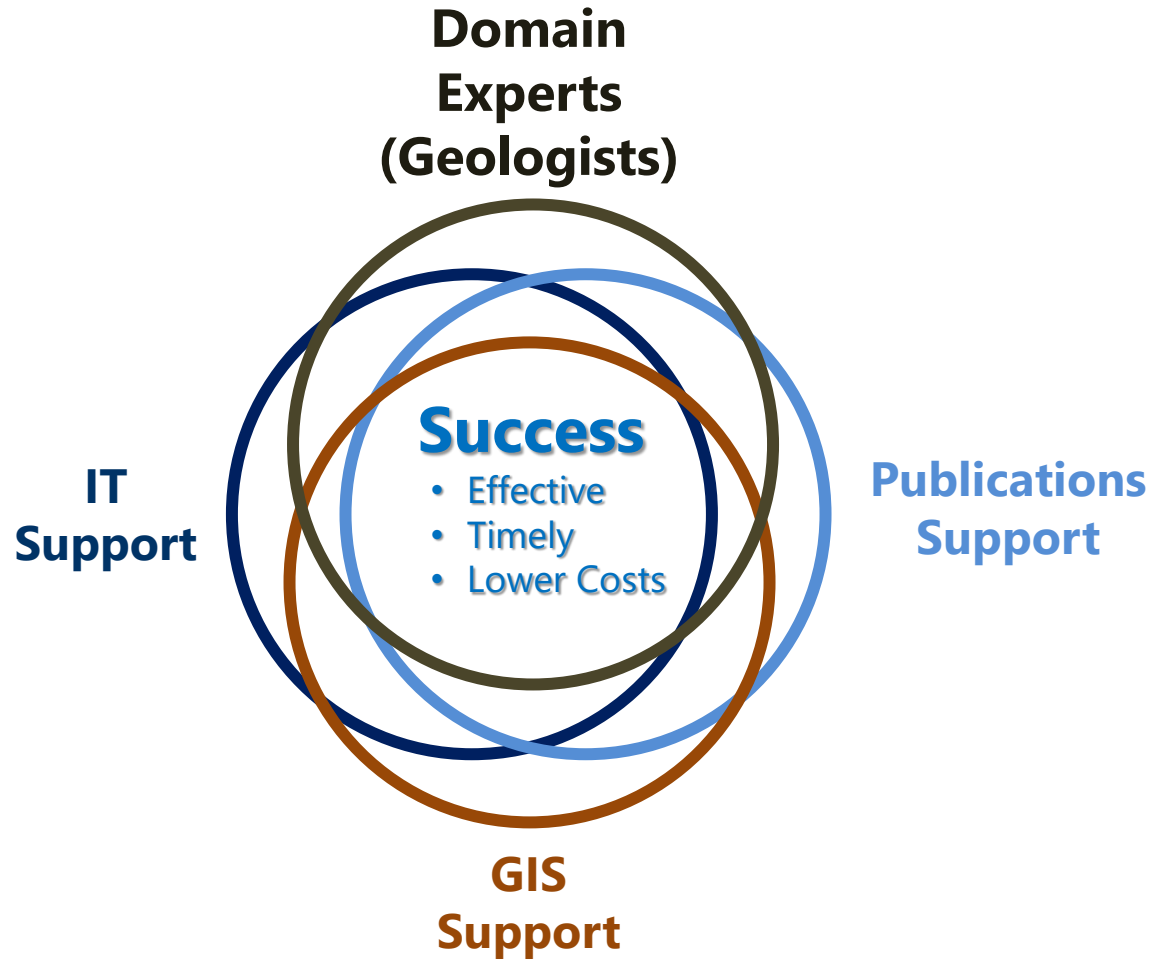
3354 College Rd, Fairbanks AK 99709

Agenda

- Geologic Information Center (GIC)
- AK DGGS Publication Preparation & Approval Process
- AK GeMS & GeMS Data Additional Steps
- Centralized Metadata Creation
- Database Driven Publications Process

Integrated Team Is Essential!

- **Dedicated and Embedded IT support** at the Division Level is Absolutely Critical

- **Regularly scheduled coordination meetings:**
  - Weekly GEDI meetings (Geologic Data Inquiry)
  - Bi-weekly Division Publications Meetings
  - Weekly GeMS Multimap Meetings
  - Individual Product Production Status Meetings
  - Other Spin Off Meetings

- **Emphasis on Training:**
  - Weekly GIS Tips & Tricks
  - Illustrator sessions
  - ESRI Training emphasis
  - One-on-one training and support from IT, GIS, & Publications.
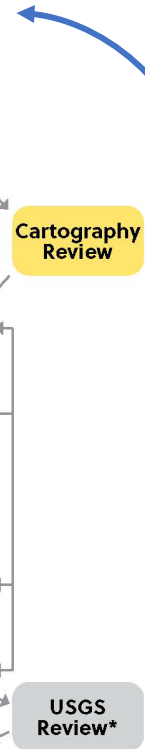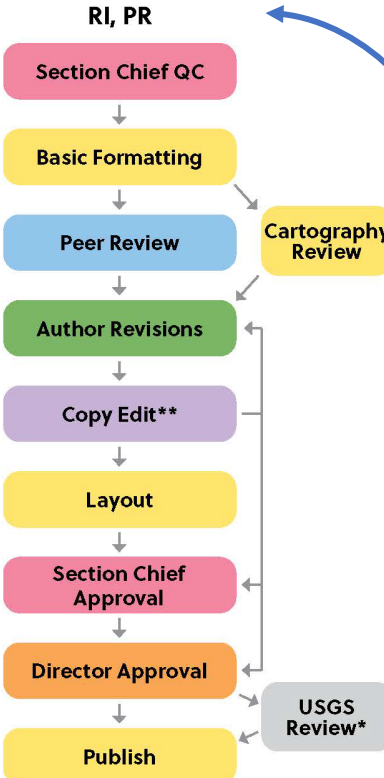
AK GeMS Geologic Mapping System

Domain Experts (Geologists)

IT Support

Publications Support

Success
- Effective
- Timely
- Lower Costs

GIS Support

Geologic Information Center (GIC)

DGGS Publication Preparation & Approval Process for __All__ Publications

Managed by
GIC's (Geologic information Center)
Kristen Janssen

Fun Fact:
Also responsible for all the
Information Circulars
in your DMT Packet

Funding approval, fieldwork/collection, analyses, co-author collaboration ↔ **Pre-Pub Meeting**

Submit Documents* ↔ **Data Design**

RDF
- **Basic Formatting**
- **Section Chief Edit/ Approval**
- **Director Approval**
- **Publish**

GPR
- **Section Chief Edit/ Approval**
- **Booklet Assembly**
- **Director Approval**
- **Publish**

PIR, MP
- **Basic Formatting**
- **Peer Review**
- **Section Chief Edit/ Approval**
- **Director Approval**
- **Publish**

RI, PR
- **Section Chief QC**
- **Basic Formatting**
- **Peer Review** → **Cartography Review**
- **Author Revisions**
- **Copy Edit***
- **Layout**
- **Section Chief Approval**
- **Director Approval** → **USGS Review***
- **Publish**

Types of Publications
Approval process dependent on publications type

Legend:
- Authors (green)
- GIC (yellow)
- Reviewers (blue)
- Section Chief (pink)
- Copy Editor (purple)
- Director (orange)

**Additional external copy editing may be done at any stage, for any publication series, at the discretion of the author and section chief.

*This step may include: Data design (Simone = metadata check, Mike/Andrew = GIS compatibility).

DGGS Publication Preparation & Approval Process for <u>All</u> Publications
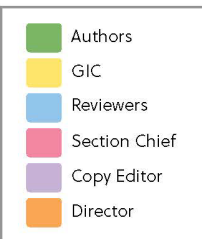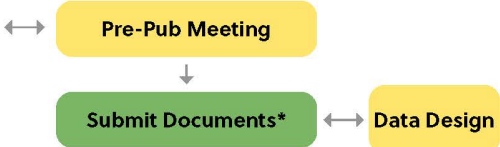
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Pre-Pub Meeting

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↓
Director Approval
↓
Publish

Cartography Review

USGS Review*

Types of Publications
Approval process dependent on publications type

Well now what?

Legend:
- Authors
- GIC
- Reviewers
- Section Chief
- Copy Editor
- Director

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*This step may include: Data design (Simone = metadata check, Mike/Andrew = GIS compatibility).
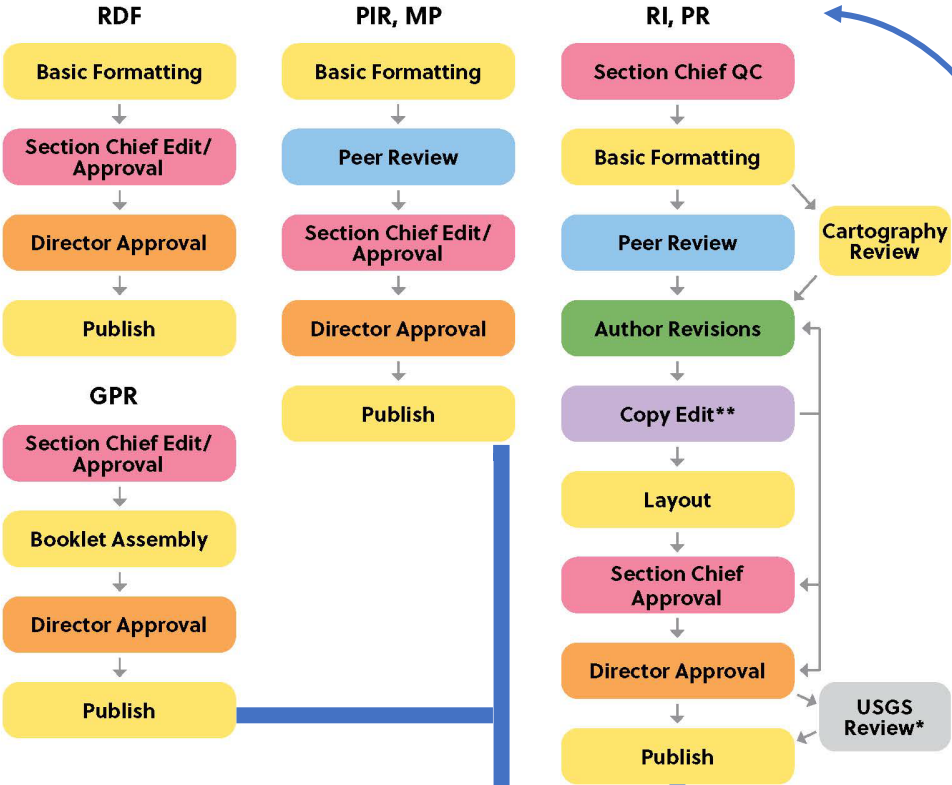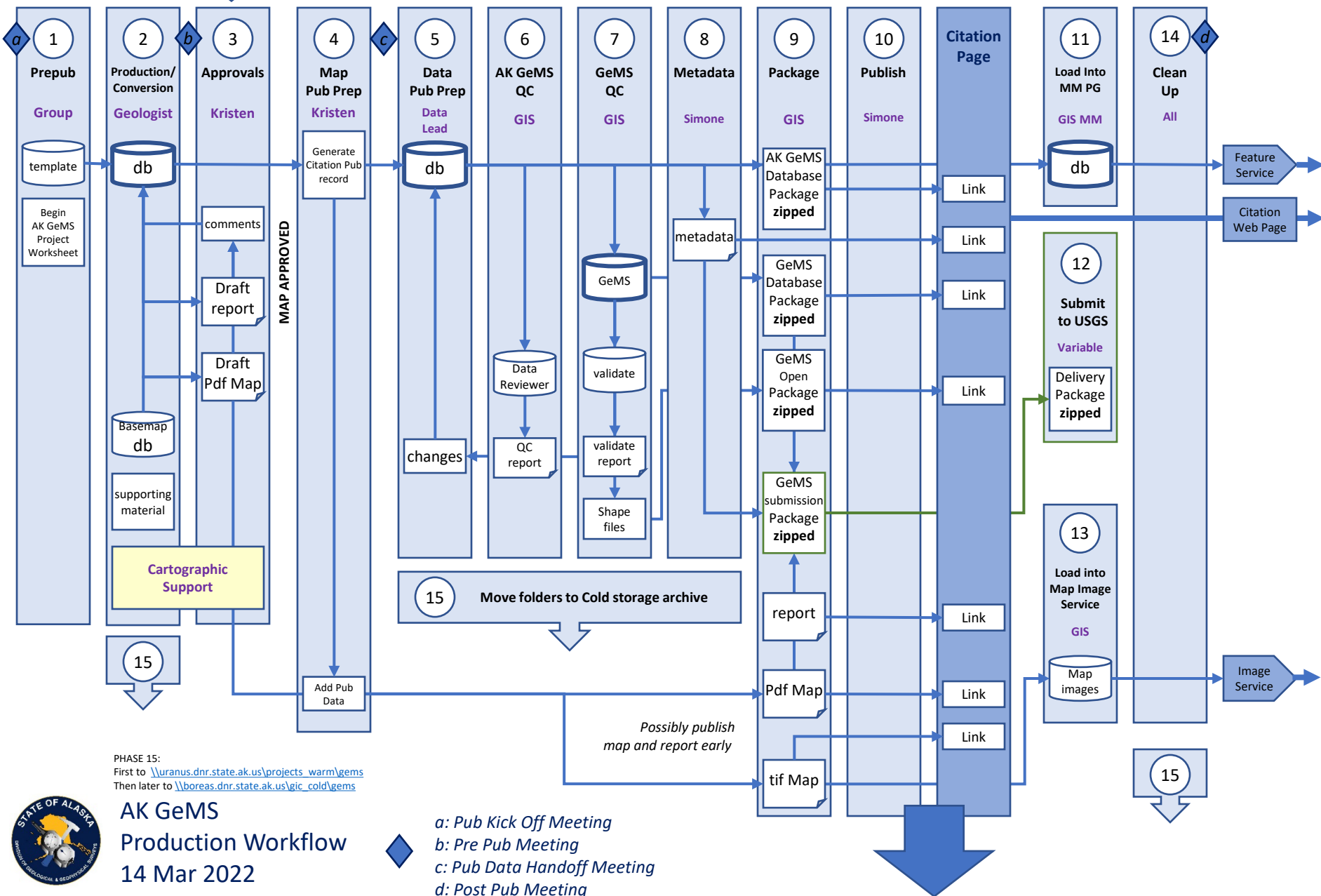
Updated March, 2022
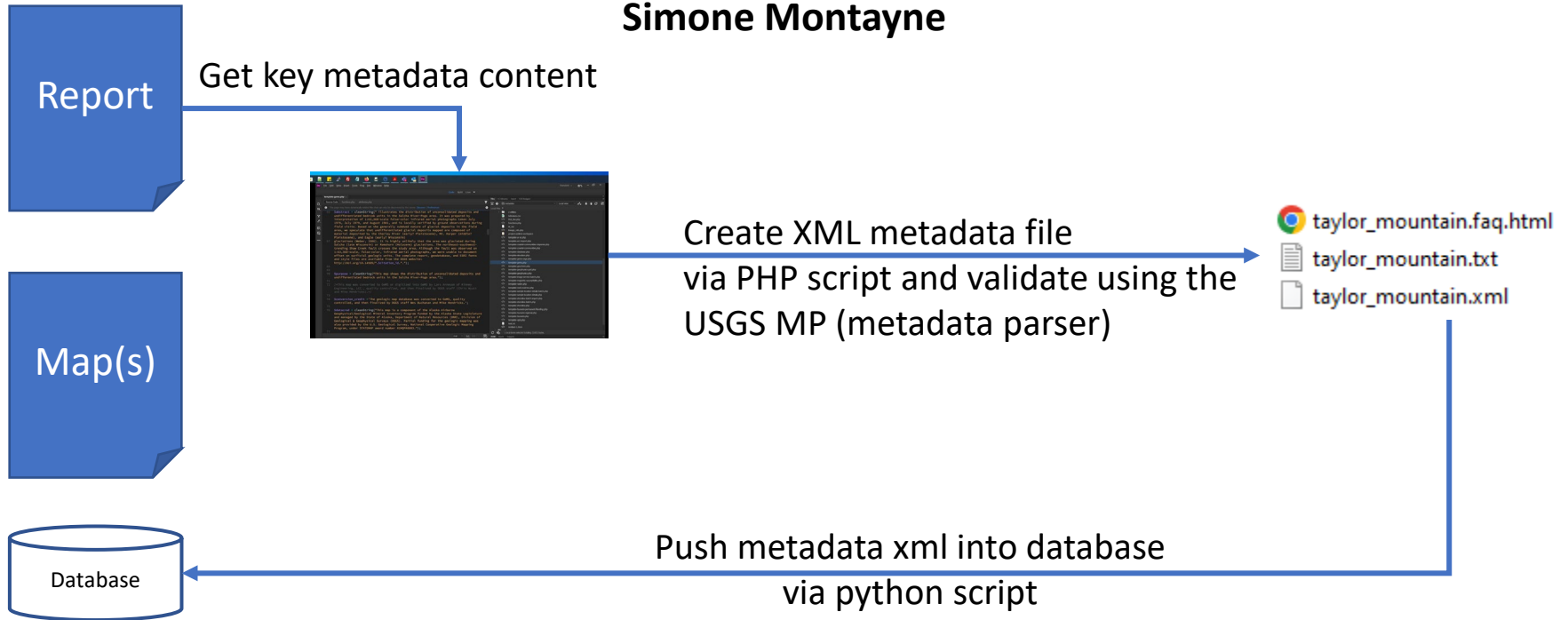
GeMS Databases have "a number" of Additional Steps

a	1 Prepub	2 Production/ Conversion	b	3 Approvals	4 Map Pub Prep	c	5 Data Pub Prep	6 AK GeMS QC	7 GeMS QC	8 Metadata	9 Package	10 Publish	Citation Page	11 Load Into MM PG	14 Clean Up	d

Group — **Geologist** — **Kristen** — **Kristen** — **Data Lead** — **GIS** — **GIS** — **Simone** — **GIS** — **Simone** — **GIS MM** — **All**

- template
- Begin AK GeMS Project Worksheet
- db
- Generate Citation Pub record
- db
- comments
- Draft report
- Draft Pdf Map
- Basemap db
- supporting material
- **Cartographic Support**

MAP APPROVED

- AK GeMS Database Package **zipped**
- metadata
- GeMS
- validate
- validate report
- Shape files
- Data Reviewer
- QC report
- changes
- GeMS Database Package **zipped**
- GeMS Open Package **zipped**
- GeMS submission Package **zipped**
- report
- Pdf Map
- tif Map

- Link
- Link
- Link
- Link
- Link
- Link
- Link
- Link

- db (Load Into MM PG)
- 12 **Submit to USGS** — **Variable** — Delivery Package **zipped**
- 13 **Load into Map Image Service** — **GIS** — Map images

- Feature Service
- Citation Web Page
- Image Service

- 15 Move folders to Cold storage archive
- 15
- 15
- 15

- Add Pub Data

Possibly publish map and report early

PHASE 15:
First to \\uranus.dnr.state.ak.us\projects_warm\gems
Then later to \\boreas.dnr.state.ak.us\gic_cold\gems

AK GeMS Production Workflow 14 Mar 2022

a: Pub Kick Off Meeting
b: Pre Pub Meeting
c: Pub Data Handoff Meeting
d: Post Pub Meeting

Centralized Metadata Creation

GIC's (Geologic information Center)
Simone Montayne

Get key metadata content

Create XML metadata file
via PHP script and validate using the
USGS MP (metadata parser)

taylor_mountain.faq.html
taylor_mountain.txt
taylor_mountain.xml

Report

Map(s)

Database

Push metadata xml into database
via python script

It's typically assumed that authors are best qualified to write metadata, which they are, but that causes publication delays because it also requires authors to fully understand the FGDC standard.

Our workflow ensures that authors capture key metadata in their reports and data products w/o burdening them with the need to tinker with an application or write XML.

Database Driven Publications Process

1 Author/Staff populate publication file server

Library

Typical Publication
Products:
- Map as pdf
- Report as pdf
- Data Products
- Metadata

Geologic & Earth Resources Information Library of Alaska (GERILA)

Publications is one of the many datasets hosted; others include:
- *Stations*
- *Samples*
- *Map index*
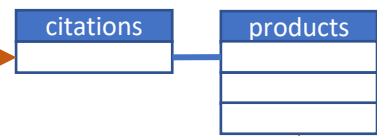
PostgreSQL

GERILA

dynamic

5
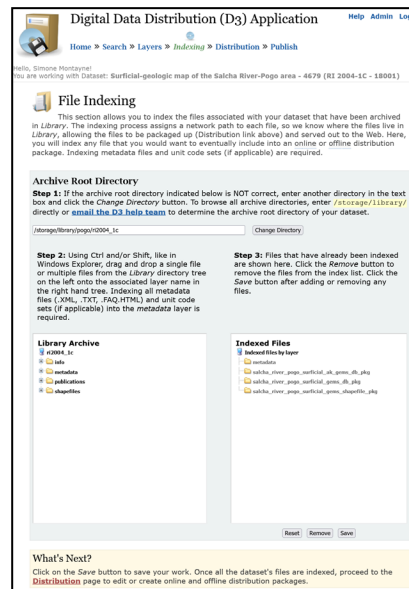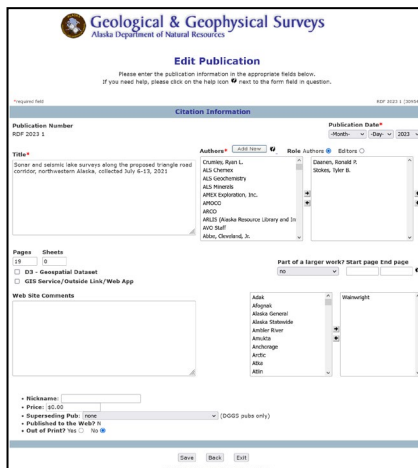
Citation page

Department of Natural Resources
GEOLOGICAL & GEOPHYSICAL SURVEYS

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State of Alaska / Natural Resources / Geological & Geophysical Surveys / Publications / RI 2004-1B

DGGS RI 2004-1B

Bedrock geologic map of the Salcha River-Pogo area, Big Delta Quadrangle, Alaska

Authors: Werdon, M.B., Newberry, R.J., Athey, J.E., and Szumigala, D.J.
Publication Date: Mar 2004
Publisher: Alaska Division of Geological & Geophysical Surveys
Comments: Supersedes PIR 2001-5.
Total Price: $15.00
Ordering Info: Download below for free or see our publication sales page to order a hard copy.
Quadrangle(s): Big Delta
Related project(s): Salcha River-Pogo
Supersedes: PIR 2001-5
Stations/Samples: View list
Citation ID: 3209

Bibliographic Reference

Werdon, M.B., Newberry, R.J., Athey, J.E., and Szumigala, D.J., 2004, Bedrock geologic map of the Salcha River-Pogo area, Big Delta Quadrangle, Alaska: Alaska Division of Geological & Geophysical Surveys Report of Investigation 2004-1B, 19 p., 1 sheet, scale 1:63,360. https://doi.org/10.14509/3209

Publication Products

📄 **Report Information**
ri2004_001b.pdf (313.0 K)

🗺️ **Maps & Other Oversized Sheets**
Sheet 1, Bedrock geologic map of the Salcha River-Pogo area, Big Delta Quadrangle, Alaska, scale 1:63,360 (23.0 M)

🌐 **Digital Geospatial Data**
These data products comply with our published AK GeMS standard. Download the ak_gems_db product to receive the full AK GeMS database and associated files. Download the gems_db (a.k.a. fed_gems_db) product to receive the data converted into the GeMS standard published by the USGS. Download the gems_shp (a.k.a. fed_gems_shp) product to receive simple shapefile representations of the data. For further information see the AK GeMS Database Project Page.

Bedrock geologic map of the Salcha River-Pogo area	Data File Format	File Size	Info
Download ri2004_001b_salcha_river_pogo_ak_gems_db_pkg	Vector data	15.1 M	Metadata - Read me
Download ri2004_001b_salcha_river_pogo_fed_gems_db_pkg	Vector data	15.0 M	Metadata - Read me
Download ri2004_001b_salcha_river_pogo_fed_gems_shp_pkg	Shapefile	2.0 M	Metadata - Read me

Keywords

40Ar/39Ar; Amphibolite; Basalt; Batholith; Bear Creek; Bedrock; Bedrock Geologic Map; Bedrock Geology; Big Granite Creek; Bonanza Creek;

citations | products

2 GIC Staff create publication record via Web Interface

Metadata Creation **3**

4 GIC Staff link products to publication & metadata via Web Interface

products

Metadata for each product

Dynamic "Read me"

Questions