Multimap
Geologic
Enterprise
Geodatabase Efforts

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Digital Mapping Techniques 2023
The Alaska GeMS Multimap database is:

A repository of individual AK GeMS single map databases stored in a single optimized PostgreSQL geodatabase.
How is it different than Single Map

- Hosted on PostGreSQL
- String based domains are converted to integer-based domains
- True GUID Fields for IDs
- Single Projection (Alaska Albers Equal Area, NAD83)
- Relationship Classes built
- Supporting tables Created and Maintained
  - Tables to support many-to-many data sources
  - Product Statistics Table
  - Cartographic labels
Supporting Data Sources Many-to-Many relationships

We used the USGS logic for data sources many to many

1. Script builds
   - Updated with Main import script
   - One-time creation

2. Script builds
   - Not versioned
   - Used to build MtoM relationship class below
   - data_sources_list
   - data_sources
   - data_source

3. Tool builds using the match table
   - Not versioned
   - data_sources_list_contacts_and_faults
   - data_sources
   - data_source

- Contacts_and_faults
- data_sources
- data_sources_list_contacts_and_faults
- data_sources_list
- data_sources
- data_source
- source
Alaska DGGS Multimap GeMS DB Architecture

- **AK GeMS Multimap DB TEST**
  - Default version
  - Edit version
  - Archive

- **AK GeMS Multimap DB DEV**
  - Default version
  - Edit version
  - Archive

- **AK GeMS Multimap DB PROD**
  - Not Versioned

**Append**

**Replication**
- 1 way
- Public Data Only

**Python Script**
- Individual MultiMap Schema FileGDB
- Individual SingleMap Schema FileGDB

**Bulk Load of SINGLE geologic map dataset**

**Edits**
- On Demand Check for changes made to originally loaded data

**Test & internal Web Services**

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Multimap Toolboxes and Notebook

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Questions?