

Personal and File Geodatabase (GIS data) for the Surficial Geologic Map of the Rathdrum Quadrangle and Part of the Newman Lake Quadrangle, Kootenai County, Idaho, 1998, Idaho Geological Survey Surficial Geologic Map 6 (SGM-6), GIS Dataset



Tags

Rathdrum, Newman Lake, surficial geology, Rathdrum Prairie

Summary

Personal and File Geodatabase (GIS data) for Surficial Geologic Map of the Rathdrum Quadrangle and Part of the Newman Lake Quadrangle, Kootenai County, Idaho, 1998, Idaho Geological Survey Surficial Geologic Map 6 (SGM-6), GIS Dataset.

Description

This map product addresses the increasing demand for geological information in urban areas. The area covered by the map is experiencing the most rapid growth in Idaho. The geologic mapping was funded in part by STATEMAP, a national cooperative program of the U.S. Geological Survey with the state geological surveys. The map represents the geology of the materials and soils exposed near the earth's surface. The thickness of these deposits varies from a few feet in the upland areas to hundreds of feet in the Rathdrum Valley. The map is useful for determining the type and characteristics of the materials found at the surface and in the shallow subsurface by agricultural activities, building excavations, construction material excavations, ditches, and well holes. The information can be used by government, private industry and the public for planning, development, and resource characterization. In particular, the map provides new information about the Rathdrum Aquifer, the sole source water supply for over 200,000 people in Idaho and Washington. The map can be used as a guide for site locations but is not intended as a substitute for a detailed site-specific geotechnical evaluation. Most users are more familiar with traditional geologic maps that show bedrock. Surficial maps show units with more diverse characteristics than rock type and lithology. Most surficial deposits are geologically young, Quaternary in age, and unconsolidated. The mapping criteria used here to subdivide the Quaternary units are based on their physical characteristics and the boundaries between them (allostratigraphy). In most places the boundaries between these units are manifested in morphologic features.

These data were created from original field work collected at the scale of 1:24,000. Data source is the IGS publication SGM-6, Surficial Geologic Map of the Rathdrum Quadrangle and Part of the Newman Lake Quadrangle, Kootenai County, Idaho, 1998. This Personal Geodatabase (and File Geodatabase) is approximately compliant with the draft standard for publication of digital geologic maps (NCGMP09). All Feature Classes can be linked to the DataSourcees table via DataSourceesID field/attribute to determine the geologic source for the data.

Feature classes included in the Geodatabase dataset:

(Look in folder "\\Rathdrum-NewmanLake_SGM-6_ShapeFiles" for shape file versions)

Spatial data feature classes:

Contacts--Geologic map unit boundaries. Contacts only, no dangler faults. Used to build map unit polygons

ContactsAndFaults--Geologic map unit boundaries and ALL faults included. This includes dangler fault lines. Use the "type" field to classify or to link to the Glossary.

Faults--Geologic faults. Includes all faults; both dangler faults and contact-faults. Use the "type" field to classify or to link to the Glossary.

FloodBar_MapUnitCentroids --Center points of polygons of remnant Missoula Flood bar deposits.

FloodBarOverLayBdys-- Boundary polylines of areas of remnant Missoula Flood bar deposits.

FloodBarOverLayPoly--Areas depicting depositional surfaces of remnant Missoula Flood bar deposits.

GeologicLines--Polylines depicting geologic mapped features, e.g., landslide headwall scarps, terrace scarps, or avalanche trace.

MapUnitCentroids-- The geometric centers of the Map Unit Polygon feature class that includes the polygon attributes.

MapUnitPolygons--Geologic map unit polygons. These are the main feature of this dataset. Descriptions for these units can be found in the DescriptionOfMapUnits feature class/table.

Non Spatial data tables:

Note: Look in folder "\\Rathdrum-NewmanLake_ShapeFiles \Non-SpatialTables" for non-Microsoft versions of these tables. Two types: dBase III, and .csv (comma delimited text).

DescriptionOfMapUnits--Table with map unit descriptions. Use MapUnit field to link to MapUnitPolygons or Dikes.

Glossary--Look up table with explanations for geologic features found in all spatial classes. For example, moraine_crest: Definition--glacial moraine ridge crest. Features in feature classes can be linked to Glossary via "Type" in feature class to "IGSGeoType" in Glossary.

DataSourcees--Sources of geologic mapping. Link via DataSourceID in feature class to DataSourcees_ID in Sources.

DataDictionary--Listing and information about fields in most Feature Classes and tables.

Credits

Science data credit: Roy M. Breckenridge and Kurt L. Othberg
 GIS credit: Loudon R. Stanford, William R. Schuster, and Jane S. Freed

GIS contact: Linda Tedrow

Use limitations

Geologic map data intended for non-site-specific use. These data were compiled from 1:24,000 geologic mapping and should not be used at larger scales, e.g., 1:12,000. Use the DataSources table and the DataSourceID in each Feature Class (but especially the ContactsAndFaults FeatureClass/Layer) to determine original intended scale.

The Idaho Geological Survey does not guarantee this map or digital data to be free of errors nor assume liability for interpretations made from this map or digital data, or decisions based thereon.

Extent

West -117.0416 **East** -116.875
North 47.875 **South** 47.75

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ▶

Citation ▶

TITLE Personal and File Geodatabase (GIS data) for the Surficial Geologic Map of the Rathdrum Quadrangle and Part of the Newman Lake Quadrangle, Kootenai County, Idaho, 1998, Idaho Geological Survey Surficial Geologic Map 6 (SGM-6), GIS Dataset
PUBLICATION DATE 2018-03-09 00:00:00

SERIES

NAME Surficial Geologic Map
ISSUE 6

[Hide Citation ▲](#)

Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME Idaho Geological Survey
CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE
VOICE 208-885-7991

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TYPE postal
DELIVERY POINT 875 Perimeter Dr. MS 4014
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ADMINISTRATIVE AREA Idaho
POSTAL CODE 83844-3014
E-MAIL ADDRESS IGS@uidaho.edu

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ▶

DATASET LANGUAGES English
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed
SPATIAL REPRESENTATION TYPE vector

SPATIAL RESOLUTION

DATASET'S SCALE
SCALE DENOMINATOR 24000

CREDITS

Science data credit: Roy M. Breckenridge and Kurt L. Othberg
 GIS credit: Loudon R. Stanford, William R. Schuster, and Jane S. Freed

GIS contact: Linda Tedrow

ARCGIS ITEM PROPERTIES

* **LOCATION** file:///\\igs-rift\shared\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09\Rathdrum-NewmanLake_SGM-6\RathdrumNLKSurf_pGDB_fielddelete.mdb
 * **ACCESS PROTOCOL** Local Area Network

[Hide Resource Details ▲](#)

Extents ▶

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
 WEST LONGITUDE -117.0416
 EAST LONGITUDE -116.875
 NORTH LATITUDE 47.875
 SOUTH LATITUDE 47.75

[Hide Extents ▲](#)**Resource Points of Contact** ▶

POINT OF CONTACT

ORGANIZATION'S NAME Idaho Geological Survey
 CONTACT'S ROLE originator

CONTACT INFORMATION ▶

PHONE

VOICE 208-885-7991

ADDRESS

TYPE postal
 DELIVERY POINT 875 Perimeter Dr. MS 4014
 CITY Moscow
 ADMINISTRATIVE AREA Idaho
 POSTAL CODE 83844-3014
 E-MAIL ADDRESS IGS@uidaho.edu

[Hide Contact information ▲](#)[Hide Resource Points of Contact ▲](#)**Resource Maintenance** ▶

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Resource Maintenance ▲](#)**Resource Constraints** ▶

CONSTRAINTS

LIMITATIONS OF USE

Geologic map data intended for non-site-specific use. These data were compiled from 1:24,000 geologic mapping and should not be used at larger scales, e.g., 1:12,000. Use the DataSources table and the DataSourceID in each Feature Class (but especially the ContactsAndFaults FeatureClass/Layer) to determine original intended scale.

The Idaho Geological Survey does not guarantee this map or digital data to be free of errors nor assume liability for interpretations made from this map or digital data, or decisions based thereon.

[Hide Resource Constraints ▲](#)**Data Quality** ▶

SCOPE OF QUALITY INFORMATION ▶

RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - CONCEPTUAL CONSISTENCY ▶

DIMENSION horizontal

MEASURE DESCRIPTION

Horizontal accuracy is difficult to quantify in geologic mapping of this type. User should use original map scale (linked to DataSources table in this data set via "DataSource_ID" to determine relative accuracy of groups of map objects in the data set. ---EXAMPLE OF DETERMINING HORIZONTAL ACCURACY: 1:24k map objects in the data set have a placement h-accuracy => 80(+/-) feet (.04 inch x 2000 ft/inch @1:24,000) for a CERTAIN line type. Accuracy is proportionally less for smaller scales and even less for other line types (see "AuthorConfidence" field in each data layer/feature class). Map data used in compilation was visually compared to original for horizontal accuracy.

EVALUATION TYPE direct internal

EVALUATION METHOD

Geologic map data are visually checked against original map data for completeness. Accuracy is determined by at least two factors: quality of capture (digitizing) consistency and the quality of the original geology. The quality of the original geology is by far the most important for determining the quality of attribute accuracy.

[Hide Data quality report - Conceptual consistency ▲](#)

Hide Data Quality ▲

Geoprocessing history ►

PROCESS

PROCESS NAME
 DATE 2017-12-20 13:23:20
 TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\CreatePersonalGDB
 COMMAND ISSUED
 CreatePersonalGDB W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09
 \Round_3\RathdrumNLKSurf_pGDB CURRENT
 INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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 DATE 2017-12-20 13:23:28
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 \Round_3\MapUnitPolys.SHP W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09
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 \Round_3/OrientationPoints.SHP W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09
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 INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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 INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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 INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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 INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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 DATE 2017-12-20 13:23:40
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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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PROCESS NAME

DATE 2017-12-20 13:23:42

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COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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PROCESS NAME

DATE 2017-12-20 13:23:43

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\FeatureClassToGeodatabase

COMMAND ISSUED

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 \Round_3\Floodbar_MapUnitPolys.SHP W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09
 \Round_3\RathdrumNLKSurf_pGDB.mdb

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

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PROCESS NAME

DATE 2017-12-20 13:23:45

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COMMAND ISSUED

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 \Round_3\RathdrumNLKSurf_pGDB.mdb

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:23:53

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:23:55

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:23:56

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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 \Round_3\RathdrumNLKSurf_pGDB.mdb

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:23:57

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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 \Round_3\RathdrumNLKSurf_pGDB.mdb

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:23:59

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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 \Round_3\RathdrumNLKSurf_pGDB.mdb

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:24:00

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:24:01

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:24:03

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:24:04

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:24:05

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

TableToGeodatabase W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09\Round_3\attributes-GDB.mdb/OverlayUnitContacts_Floodbar W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09\Round_3\RathdrumNLKSurf_pGDB.mdb

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:24:07

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:24:08

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COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:24:09

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COMMAND ISSUED

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INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:24:11

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Conversion Tools.tbx\TableToGeodatabase

COMMAND ISSUED

TableToGeodatabase W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09\Round_3\attributes-GDB.mdb/XIGSourceNOTFOUND W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09\Round_3\RathdrumNLKSurf_pGDB.mdb

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

PROCESS

PROCESS NAME

DATE 2017-12-20 13:25:55

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.3\ArcToolbox\Toolboxes\Data Management Tools.tbx\Compact

COMMAND ISSUED

Compact W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09
 \Round_3\RathdrumNLKSurf_pGDB.mdb
 INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME Idaho Geological Survey
 CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 208-885-7991

ADDRESS

TYPE postal
 DELIVERY POINT 875 Perimeter Dr. MS 4014
 CITY Moscow
 ADMINISTRATIVE AREA Idaho
 POSTAL CODE 83844-3014
 E-MAIL ADDRESS IGS@uidaho.edu

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

TRANSFER OPTIONS

ONLINE SOURCE

LOCATION http://www.idahogeology.org/Products/reverselook.asp?switch=title&value=Surficial_Geologic_Map_of_the_Rathdrum_Quadrangle_and_Part_of_the_Newman_Lake_Quadrangle,_Kootenai_County,_Idaho

[Hide Distribution ▲](#)

Fields ►

OVERVIEW DESCRIPTION ►

ENTITY AND ATTRIBUTE OVERVIEW

See DataDictionary table in this dataset for complete listing of fields and attributes

[Hide Overview Description ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

METADATA LANGUAGE English

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

LAST UPDATE 2018-03-07

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2018-03-06 15:27:01

LAST MODIFIED IN ARCGIS FOR THE ITEM 2018-03-28 13:49:54

AUTOMATIC UPDATES

HAVE BEEN PERFORMED No

ITEM LOCATION HISTORY

ITEM COPIED OR MOVED 2018-03-06 15:27:01

FROM W:\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09\Round_3
 \RathdrumNLKSurf_pGDB_fielddelete.mdb

TO \\igs-rift\shared\DATABASE_MAPS\GEOLOGY_tile_project\Surficial\Rathdrum-NewmanLake_SGM-6\GIS_NCGMP09\Rathdrum-
 NewmanLake_SGM-6\RathdrumNLKSurf_pGDB_fielddelete.mdb

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Metadata Contacts ►

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Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

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FGDC Metadata (read-only) ▼