

Changes to Template When Creating Metadata



= Changes with each dataset



= Changes with the coordinate system



= Changes with the park



= Changes with the datum



= Information is extracted/shown by ArcCatalog (only if these elements are left blank upon import of the template) or the ArcView NOAA metadata tool.

Identification_Information:

Citation:

Citation_Information:

Originator: National Park Service Intermountain GIS Support Center

Publication_Date: 199907

Title: Geology for Fossil Butte National Monument, Wyoming

Description:

Abstract:

This is a geology dataset at a scale of 1:100,000 for Fossil Butte National Monument. This Arc/Info line and polygon coverage contains the geologic units within the Kemmerer quad as depicted on the Geologic Map of the Kemmerer 30' X 60' Quadrangle, Lincoln, Uinta and Sweetwater Counties, Wyoming (1992) by M'Gonigle & Dover, published by the USGS. Only the western two thirds of the map were digitized.

Purpose:

The intended use of all data in a park's GIS library is to support diverse park activities including planning, management, maintenance, research, and interpretation.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 1992

Currentness_Reference: Ground Condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As Needed



Status usually doesn't change from "complete" and "as needed" but there may be exceptions.

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -111.0002

East_Bounding_Coordinate: -110.2445

North_Bounding_Coordinate: 42.0000

South_Bounding_Coordinate: 42.5002

Keywords:

Theme:

Theme_Keyword_Thesaurus: None
Theme_Keyword: Geology
Theme_Keyword: Depositional contacts
Theme_Keyword: Rock units
Theme_Keyword: Surficial geology

Place:

Place_Keyword_Thesaurus: None
Place_Keyword: Fossil Butte National Monument
Place_Keyword: FOBU
Place_Keyword: Uinta County
Place_Keyword: Sweetwater County
Place_Keyword: Lincoln County
Place_Keyword: Kemmerer
Place_Keyword: Wyoming
Place_Keyword: United States
Place_Keyword: North America
Place_Keyword: National Park Service
Place_Keyword: NPS

Access_Constraints: None

Use_Constraints: None



Constraints change with sensitive data

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: April Molina

Contact_Organization:

National Park Service Intermountain GIS Support
Center

Contact_Address:

Address_Type: Mailing and Physical Address

Address: Bandelier West, Room 111, University of New Mexico

City: Albuquerque

State_or_Province: New Mexico

Postal_Code: 87131

Country: USA

Contact_Voice_Telephone: 505-346-2885

Contact_Facsimile_Telephone: 505-346-2889

Contact_Electronic_Mail_Address: april_molina@nps.gov

Hours_of_Service: M-F 8:00-4:00 (Mountain)

Native_Data_Set_Environment: Windows NT, ArcInfo 7.2.1

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

The published paper geological map from the USGS was the source for feature attributes. Attribute code assignments were checked by comparing the digitized data to the original paper map.

Logical_Consistency_Report:

Data were checked for overshoots and undershoots.

Polygon and arc topology are present.

Completeness_Report:

This dataset does not include the eastern third of the map. See bounding coordinates for area included in data set. This coverage contains geological units as depicted on the map. There are many additional features on the source map that are not depicted by this data set. The following features are not included: clinkers, sand dune areas, indication of downthrown side or upper plate of faults, strike and dip of bedding, roads and hydrography.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

During the digitizing process, the data were periodically checked against a hydrography coverage of the same scale for accuracy. The hydrography printed on the geology source map is the same as the hydrography data obtained from USGS Digital Line Graphs.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: U.S. Geological Survey

Publication_Date: 1992

Title:

Geologic Map of the Kemmerer 30' X 60' Quadrangle, Lincoln, Uinta and Sweetwater Counties, Wyoming

Series_Information:

Series_Name: Miscellaneous Investigations Series

Issue_Identification: Map I-2079

Publication_Information:

Publication_Place: Reston, VA

Publisher: U.S. Geological Survey

Source_Scale_Denominator: 100000

Type_of_Source_Media: Paper

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 1992

Source_Currentness_Reference: ground condition

Source_Citation_Abbreviation: none

Source_Contribution: geological unit contact lines and attributes

Process_Step:

Process_Description:

Tick marks were determined using the lat/long marks on the map. These were converted to UTM. A tic coverage was created.

Process_Date: 1999

Process_Step:

Process_Description:

Registration points converted using LL2UTM - Version 0.99 were confirmed to be accurate. This was done by projecting an ascii file containing the lat/long coordinates of the tics.

Process_Date: 1999

Process_Step:

Process_Description:

After the geology coverage had been edited, each polygon was assigned a code number corresponding to its appropriate geologic unit. A lookup table with a code field and the map unit and map unit name were joined to the polygon attribute table.

Process_Date: 1999

Process_Step:

Process_Description:

The coverage was projected from NAD27 to NAD83 using the PROJECT command.

Process_Date: 1999

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: National Park Service

Contact_Person: April Molina

Contact_Position: GIS Assistant

Contact_Address:

Address_Type: Mailing and Physical Address

Address: Bandelier West, Room 111, University of New Mexico

City: Albuquerque

State_or_Province: New Mexico

Postal_Code: 87131

Country: U.S.

Contact_Voice_Telephone: 505-346-2885

Contact_Facsimile_Telephone: 505-346-2889

Contact_Electronic_Mail_Address: april_molina@nps.gov

Hours_of_Service: M-F 8:00-4:00 (Mountain)

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: GT-polygon composed of chains

Point_and_Vector_Object_Count: 2294

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal Transverse Mercator:

UTM_Zone_Number: 12

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.9996

Longitude_of_Central_Meridian: -111

The number of process steps will vary with each data set.

UTM zone number may change from park to park.

When UTM zone changes, these numbers will change.

Latitude_of_Projection_Origin: 0

False_Easting: 500000

False_Northing: 0

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: Coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 2.54

Ordinate_Resolution: 2.54



These numbers depend on scale. See last page for numbers to use here.

Planar_Distance_Units: METERS

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: GRS1980

Semi-major_Axis: 6378137

Denominator_of_Flattening_Ratio: 298.257

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: kemmer.pat

Entity_Type_Definition: Polygon Attribute Table

Entity_Type_Definition_Source: None

Attribute:

Attribute_Label: Area

Attribute_Definition: Area of polygon

Attribute_Definition_Source: Software computed

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 2037.578

Range_Domain_Maximum: 127189752.000

Attribute:

Attribute_Label: Perimeter

Attribute_Definition: Perimeter of polygon

Attribute_Definition_Source: Software computed

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 192.513

Range_Domain_Maximum: 770168.188

Attribute:

Attribute_Label: kemmer#

Attribute_Definition: Internal feature number

Attribute_Definition_Source: Software computed

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 2

Range_Domain_Maximum: 2295

Attribute:

Attribute_Label: kemmer-id

Attribute_Definition: Feature identification number

Attribute_Definition_Source: User Defined

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 1

Range_Domain_Maximum: 2369

Attribute:

Attribute_Label: Code

Attribute_Definition:

Numbers (1-131) assigned to each map unit to aid in attributing. This was a field used to relate to a lookup table.

Attribute_Definition_Source: User Defined

Attribute_Domain_Values:

Codeset_Domain:

Codeset_Name: None

Codeset_Source:

The map units were assigned numbers in the order they were printed on the map legend (generally, youngest to oldest).

Attribute:

Attribute_Label: Map_units

Attribute_Definition: Map geologic units

Attribute_Definition_Source: User Defined

Attribute_Domain_Values:

Unrepresentable_Domain: Character field

Attribute:

Attribute_Label: Name

Attribute_Definition: Map geologic unit names

Attribute_Definition_Source: User Defined

Attribute_Domain_Values:

Unrepresentable_Domain: Character field

Overview_Description:

Entity_and_Attribute_Overview:

The lookup table includes geologic units for both the Evanston and Kemmerer Quadrangles. Therefore, some of the attributes listed below are not in the Kemmerer data.

>

>Code, Map_Units, Name

>1 af Artificial fill (Holocene)

>2 Qal Alluvium (Holocene and upper? Pleistocene)

>3 Qas Secondary-stream alluvium (Holocene and upper? Pleistocene)

>4 Qf Alluvial-fan deposits (Holocene and upper? Pleistocene)

>5 Qc Colluvium (Holocene and Pleistocene)

>6 Ql Landslide deposits (Holocene and Pleistocene)

>7 Qtg Terrace deposits and gravel (Holocene and Pleistocene)

>8 Qg Gravel (Holocene and Pleistocene)

>9 Qg Well-rounded clasts from Keetly Volcanics (Oligocene)

>10 Qg Well-rounded clasts from Evanston Formation (Paleocene and Upper Cretaceous)

>11 Qsg Slumped gravel (Holocene and Pleistocene?)

>12 Qm Moraine (Pleistocene)

>13 Qmo Older moraine (Pleistocene)

>14 QTg High-level terrace gravel (Quaternary and (or) Tertiary)

Entity_and_Attribute_Detail_Citation:

For a description of each of the individual map units, see the source map:

These two elements are used when there is another source, document, book, etc. that can explain attributes in greater detail.

M'Gonigle, J.W. and Dover, J.H. 1992. Geologic Map of the Kemmerer 30' X 60' Quadrangle, Lincoln, Uinta and Sweetwater Counties, Wyoming. U.S. Geologic Survey.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: NC State University

Contact_Person: Bill Slocumb

Contact_Position: Research Associate

Contact_Address:

Address_Type: Mailing Address

Address: 5112 Jordan Hall

City: Raleigh

State_or_Province: North Carolina

Postal_Code: 27695-7106

Country: USA

Contact_Voice_Telephone: 919-515-3432

Contact_Facsimile_Telephone: 919-515-3439

Contact_Electronic_Mail_Address: Bill_Slocumb@ncsu.edu

Hours_of_Service: 8:00 a.m. to 4:00 p.m. EST, Monday-Friday

Contact_Instructions:

Data are available at the NPS Spatial Data

Clearinghouse: <http://www.nps.gov/gis>

Resource_Description: [fobu_kemmergeo.e00](#)

Distribution_Liability:

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system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: ARCE

Format_Version_Number: 7.2.1

Format_Specification: .e00

“ARCE” is used for ArcInfo export files.

If it is an ArcView Shapefile, put “ArcView” in Format_Name and “Shapefile, zipped” for Format_Specification.

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: ftp.ncsu.edu/pub/unity/lockers/ftp/npsftp/pub/data/fobu

Fees: None

Metadata_Reference_Information:

Metadata_Date: 199907

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: April Molina

Contact_Organization:

National Park Service Intermountain GIS Support Center

Contact_Address:

Address_Type: Mailing and Physical Address

Address: Bandelier West, Room 111, University of New Mexico

City: Albuquerque

State_or_Province: New Mexico

Postal_Code: 87131

Country: USA

Contact_Voice_Telephone: 505-346-2885

Contact_Facsimile_Telephone: 505-346-2889

Contact_Electronic_Mail_Address: april_molina@nps.gov

Hours_of_Service: M-F 8:00-4:00 (Mountain)

Metadata_Standard_Name: FGDC CSDGM

Metadata_Standard_Version: 1998

Metadata_Access_Constraints: None

Metadata_Use_Constraints: None

Check that the most [current metadata standard](#) is being used.

Common Spatial Reference Information Entries

Abscissa and Ordinate Resolution Values

Common values:

1:50	.001m
1:100	.00254m
1:4800	.122m
1:15600	.39634m
1:24000	.61m
1:25000	.635m
1:48000	1.22m
1:62500	1.587m
1:63360	1.61m
1:100000	2.54m
1:250000	6.35m
1:2000000	50.80m

Enter the same number for both the abscissa and ordinate resolution.

These were calculated by using this formula:

*Ordinate Resolution = Scale Denominator * Tablet Resolution /39.36 (number of inches in a meter).*

The above values were calculated using .001 for the tablet resolution.

Geodetic Model Entries

For data in NAD83, use these entries:

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: GRS1980

Semi-major_Axis: 6378137

Denominator_of_Flattening_Ratio: 298.257

For data in NAD27, use these entries:

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1927

Ellipsoid_Name: Clarke 1866

Semi-major_Axis: 6378206.4

Denominator_of_Flattening_Ratio: 294.98