Shinarump Channels of the North Central AUM Region

Data format: Shapefile

File or table name: Shinarump_Channels

Coordinate system: Geographic

Theme keywords: Shinarump Channels, Shinarump Member, Chinle Formation

Abstract: This is a polygon shapefile that provides Shinarump channels compiled and mapped by Young and Malan (1964) in the Monument Valley District, San Juan County, Utah, Navajo and Apache Counties, Arizona. The lower Shinarump Member of the Triassic Chinle Formation is the locus of almost all uranium and vanadium deposits in the Monument Valley area.

FGDC and ESRI Metadata:

Metadata elements shown with blue text are defined in the Federal Geographic Data Committee's (FGDC) *Content Standard for Digital Geospatial Metadata (CSDGM)*. Elements shown with green text are defined in the *ESRI Profile of the CSDGM*. Elements shown with a green asterisk (*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

Identification Information:

Citation:

Citation information:

Originators: Young and Malan, US Department of Energy, Preliminary Map No. 34

Title:
Shinarump Channels of the North Central AUM Region

***File or table name:** Shinarump_Channels

Publication date: Unknown

Geospatial data presentation form: map

Publication information:

Publication place: Grand Junction, CO

Publisher: US Department of Energy

Other citation details:

"Geologic map showing uranium deposits and Shinarump channels in the Monument Valley District, San Juan County, Utah, Navajo and Apache Counties, Arizona" Compiled by R.G. Young and R.C. Malan Atomic Energy Commission Grand Junction Operations Office Production Evaluation Division July, 1964

***Online linkage:**
\\Terra_dc\Navajo\NAUM_NN_Summary\DB\Geology\Shinarump_Channels.shp

Description:

Abstract:

This is a polygon shapefile that provides Shinarump channels compiled and mapped by Young and Malan (1964) in the Monument Valley District, San Juan County, Utah, Navajo and Apache Counties, Arizona. The lower Shinarump Member of the Triassic Chinle Formation is the locus of almost all uranium and vanadium deposits in the Monument Valley area.

Purpose:

This dataset was developed to support the U.S. Environmental Protection Agency (USEPA) in its undertaking of an extensive scientific study to determine if abandoned uranium mines (AUM) and related mine features pose a significant risk to human health and the environment, and to identify areas requiring action to reduce risk for the Navajo Nation.

***Language of dataset:** en

Time period of content:

Time period information:

Single date/time:

Calendar date: July 1964

Currentness reference:

publication date

Status:

Progress: Complete
Maintenance and update frequency: None planned

Spatial domain:

Bounding coordinates:

***West bounding coordinate:** -110.595172
***East bounding coordinate:** -109.814845
***North bounding coordinate:** 37.287358
***South bounding coordinate:** 36.800146

Local bounding coordinates:

***Left bounding coordinate:** -110.595172
***Right bounding coordinate:** -109.814845
***Top bounding coordinate:** 37.287358
***Bottom bounding coordinate:** 36.800146

Keywords:

Theme:

Theme keywords: Shinarump Channels, Shinarump Member, Chinle Formation
Theme keyword thesaurus: None

Place:

Place keywords: Monument Valley, North Central AUM Region, Navajo Nation, Arizona, Utah, United States
Place keyword thesaurus: None

Access constraints: None.
Use constraints:

This is a polygon shapefile that provides Shinarump channels, including estimated eroded channels, compiled and mapped by Young and Malan (1964) in the Monument Valley District, San Juan County, Utah, Navajo and Apache Counties, Arizona.

Use of this data generally requires computer workstations with ESRI's Arc/Info (8.x or above), ArcGIS (8.x or above), or ArcView (3.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

The data are provided "as-is," without warranty of any kind, either express or implied.

These data have been compiled as part of a desktop project to collect existing spatial data to support the study of Navajo abandoned uranium mines. No field verifications were undertaken as part of this desktop study.

Point of contact:

Contact information:

Contact organization primary:

Contact organization: U. S. Environmental Protection Agency, Region 9, Superfund Program

Contact address:

Address type: mailing and physical address
Address:
75 Hawthorne St (SFD 8-2)
City: San Francisco
State or province: CA
Postal code: 94105
Country: USA

Contact voice telephone: 415-972-3167

Security information:

Security classification system: None

***Native dataset format:** Shapefile
***Native data set environment:**
Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.1.0.780

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Data Quality Information:

Attribute accuracy:

Attribute accuracy report:

The only attribute is TYPe from the Young and Malan map. The attribute was reviewed against this map.

Completeness report:
This is a polygon shapefile that provides Shinarump channels, including estimated eroded channels, compiled and mapped by Young and Malan (1964) in the Monument Valley District, San Juan County, Utah, Navajo and Apache Counties, Arizona.

Positional accuracy:
Horizontal positional accuracy:
Horizontal positional accuracy report:
The horizontal accuracy is consistent with heads up digitizing the scanned map whose scale is 1:133,333.

Lineage:
Source information:
Source citation:
Citation information:
Originators: Compiled by R.G. Young and R.C. Malan

Title:
Geologic map showing uranium deposits and Shinarump channels in the Monument Valley District, San Juan County, Utah, Navajo and Apache Counties, Arizona

Publication date: July, 1964
Geospatial data presentation form: map

Series information:
Series name: Preliminary Map
Issue identification: No. 34

Publication information:
Publication place: Grand Junction Operations Office
Publisher: Atomic Energy Commission, Production Evaluation Division

Source scale denominator: 133,333
Type of source media: paper map
Source citation abbreviation:
Young and Malan
Source contribution:
The Young and Malan (July 1964) map is the sole source of Shinarump Channels in the Monument Valley area.

Process step:
Process description:
The paper Young and Malan map was scanned, georeferenced and the Shinarump Channels (Eroded and Not Eroded as TYPES) were automated.

Process software and version: ESRI ArcGIS 9.1
Process date: July 2007

Source used citation abbreviation:
Young and Malan
Source produced citation abbreviation:
Shinarump_Channels.shp

Process contact:

Contact information:
Contact organization primary:
Contact organization: TerraSpectra Geomatics

Contact address:
Address type: mailing and physical address
Address:
2700 E Sunset Rd, Ste A-10
City: Las Vegas
State or province: NV
Postal code: 89120
Country: USA

Contact voice telephone: 702-795-8254

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Spatial Data Organization Information:

*__Direct spatial reference method:__ Vector

Point and vector object information:
SDTS terms description:
*__Name:__ Shinarump_Channels
*__SDTS point and vector object type:__ G-polygon
*__Point and vector object count:__ 68

ESRI terms description:
*__Name:__ Shinarump_Channels
*__ESRI feature type:__ Simple
*__ESRI feature geometry:__ Polygon
*__ESRI topology:__ FALSE
*__ESRI feature count:__ 68
*__Spatial index:__ TRUE
*__Linear referencing:__ FALSE

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Spatial Reference Information:

Horizontal coordinate system definition:
Coordinate system name:
*__Geographic coordinate system name:__ GCS_North_American_1983

Geographic:
*__Latitude resolution:__ 0.000000
*__Longitude resolution:__ 0.000000
*__Geographic coordinate units:__ Decimal degrees

Geodetic model:
*__Horizontal datum name:__ North American Datum of 1983
*__Ellipsoid name:__ Geodetic Reference System 80
*__Semi-major axis:__ 6378137.000000

*Denominator of flattening ratio: 298.257222

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Entity and Attribute Information:

Detailed description:

*Name: Shinarump_Channels

Entity type:

*Entity type label: Shinarump_Channels
*Entity type type: Feature Class
*Entity type count: 68
Entity type definition:
Eroded and Not Eroded Shinarump Channels

Attribute:

*Attribute label: FID
*Attribute alias: FID
*Attribute definition:
Internal feature number.
*Attribute definition source:
ESRI

*Attribute type: OID
*Attribute width: 4
*Attribute precision: 0
*Attribute scale: 0

Attribute domain values:

*Unrepresentable domain:
Sequential unique whole numbers that are automatically generated.

Attribute:

*Attribute label: Shape
*Attribute alias: Shape
*Attribute definition:
Feature geometry.
*Attribute definition source:
ESRI

*Attribute type: Geometry
*Attribute width: 0
*Attribute precision: 0
*Attribute scale: 0

Attribute domain values:

*Unrepresentable domain:
Coordinates defining the features.

Attribute:

*Attribute label: Type
*Attribute alias: Type

*Attribute type: String
*Attribute width: 25

Attribute:
*Attribute label: Source
*Attribute alias: Source

*Attribute type: String
*Attribute width: 15

Overview description:
Dataset overview:
There are 68 polygons representing eroded and not eroded Shinarump Channels.

Entity and attribute overview:
There is one thematic attribute called "Type" with two values:

Eroded - estimated location of Shinarump Channel absent by erosion
Not Eroded - mapped location Shinarump Channel

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Distribution Information:

Distributor:
Contact information:
Contact organization primary:
Contact organization: U. S. Environmental Protection Agency, Region 9, Superfund Records Center

Contact address:
Address type: mailing address
Address:
95 Hawthorne St (SFD-7C)
City: San Francisco
State or province: CA
Postal code: 94105
Country: USA

Contact voice telephone: 415-536-2033

Resource description: Shinarump_Channels.shp

Distribution liability:
Although these data have been processed successfully on a computer system for the USEPA, no warranty expressed or implied is made by the USEPA or its contractors regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. No responsibility is assumed by USEPA or its contractors in the use of these data.

Standard order process:
Digital form:
Digital transfer information:
*Transfer size: 0.034
*Dataset size: 0.034

Custom order process:
Contact the USEPA for a custom order.
Technical prerequisites:
Use of this data generally requires computer workstations with ESRI's Arc/Info (8.x or above), ArcGIS (8.x or above), or ArcView (3.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

Available time period:
Time period information:
Single date/time:

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Metadata Reference Information:

*__Metadata date:__ 20070731

*__Language of metadata:__ en

Metadata contact:
Contact information:
Contact person primary:
Contact person: Andrew Bain
Contact organization: U. S. Environmental Protection Agency, Region 9, Superfund Program
Contact position: Project Manager

Contact address:
Address type: mailing and physical address
Address:
75 Hawthorne St (SFD 8-2)
City: San Francisco
State or province: CA
Postal code: 94105
Country: USA

Contact voice telephone: 415-972-3167

*__Metadata standard name:__ FGDC Content Standards for Digital Geospatial Metadata
*__Metadata standard version:__ FGDC-STD-001-1998
*__Metadata time convention:__ local time

Metadata access constraints: None.
Metadata use constraints:
None.

Metadata security information:
Metadata security classification system: None

Metadata extensions:
*__Online linkage:__ http://www.esri.com/metadata/esriprof80.html
*__Profile name:__ ESRI Metadata Profile

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Binary Enclosures:

Thumbnail:

Enclosure type: Picture

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