

PRODUCT OVERVIEW AND OPERATION

DI-18: Geologic spatial data for the Clifton-Morenci area, Greenlee County, Arizona

Includes DGM-01 and OFR 00-07 in Adobe® PDF format

System Requirements:

Windows 95/98/2000 or Windows NT4.0

ArcView GIS, or another GIS program capable of opening ESRI shapefiles, is required to use this product. If GIS software is not available, ArcExplorer, a lightweight GIS data viewer, can be used to view the dataset in a simplified format. Installation files for ArcExplorer 1.1, ArcExplorer 3.0 for Windows, and ArcExplorer 3.0 for Unix are included.

Adobe Acrobat Reader is required to view documents distributed in Adobe PDF format. The installation file for Adobe Acrobat Reader v4.05c is included.

A web browser is needed for viewing HTML files.

Project File Operation:

The ArcView GIS v3.2 project can be opened directly from the CD-ROM by double-clicking the **morenci.apr** project file in the */Di-18(MorenciGIS)/projects* folder, or it can be opened on a computer's hard-drive by first copying the */Di-18(MorenciGIS)* directory, with all subdirectories, to a root directory on the hard drive and then double-clicking the project file there. Copying the */Di-18(MorenciGIS)* directory into any folder other than the root directory will cause problems when opening the project file. The fonts that are in the */Di-18(MorenciGIS)/other/fonts* folder must be copied into the C:\(system)\Fonts directory of the local hard drive. Without these fonts, the default project palette (**azgsgeopalette.avp**, in the */Di-18(MorenciGIS)/other/palettes* folder) will not display the symbols correctly.

Data Organization:

The organization of the data in this product, including the design of the database, the procedures used to create the data set, and the feature codes used to attribute the data, are explained in the Data Structure document (**DI-18_datastructure.pdf**). Complete FGDC-compliant metadata files (**DI-18_metadata.txt** and **DI-18_metadata.htm**) are located in the */Di-18(MorenciGIS)/text* folder.

File Overview:

Di-18(MorenciGIS) – parent folder

acrobat – folder containing the installation file for Adobe Acrobat Reader v4.05c

ar405eng.exe – Adobe Acrobat Reader v4.05c installation file

arcexplorer – ArcExplorer installations

ver1.1 – folder containing ArcExplorer 1.1 installation files for Windows 95/98, or Windows NT operating systems (requires that Service Pack 3 or higher is installed if being used with Windows NT)

aeclient.exe – installation file for ArcExplorer 1.1

arcexplorer1.pdf – help manual for ArcExplorer 1.1

import71.exe – installs the ArcExplorer 1.1 Import Utility that converts Arc/Info interchange files (*.e00) into Arc/Info coverages that can then be used in ArcExplorer

ver3-java – folder containing ArcExplorer 3.0 installation files for Windows 98/2000, or Windows NT 4.0 for Intel, Service Pack 4, 5, and 6a
aejavasetup.exe – installation file for ArcExplorer 3.0 for Windows
arcexplorer3.pdf – help manual for ArcExplorer 3.0
jre1_2_2-004-win-i.exe – installation file for Java Runtime Environment (JRE): 1.2.2-004 with Java Plug-in (automatically installed during ArcExplorer 3 installation if you don't already have it)
ver3-unix – folder containing ArcExplorer 3.0 installation files for Solaris 2.6 or Solaris 7 operating systems
arcexplorer3.pdf – help manual for ArcExplorer 3.0
arcexplorer3_0_tar.z – zipped installation file for ArcExplorer 3.0 for Unix
explorer_unix.htm – ArcExplorer installation instructions for Unix

arcexports_dd – folder containing the export files for the Arc\Info coverages in geographic coordinates with decimal degree units
mor_dmp_dd.e00 – export file for the mine dumps polygon coverage
mor_geo_dd.e00 – export file for the geology polygons and lines coverage
mor_lin_dd.e00 – export file for the coverage containing geologic lines not defining polygon boundaries
mor_pit_dd.e00 – export file for the mine pit polygon coverage
mor_pnt_dd.e00 – export file for the geologic points coverage

arcexports_utm – folder containing the export files for the Arc\Info coverages using a UTM projection
morenci_dmp.e00 – export file for the mine dumps polygon coverage
morenci_geo.e00 – export file for the geology polygons and lines coverage
morenci_lin.e00 – export file for the coverage containing geologic lines not defining polygon boundaries
morenci_pit.e00 – export file for the mine pit polygon coverage
morenci_pnt.e00 – export file for the geologic points coverage

coverages_dd – Arc\Info workspace containing coverages for this project in geographic coordinates with decimal degree units
info – INFO database subdirectory containing INFO data files and feature attribute table definitions for the coverages
morenci_dmp – Arc\Info coverage for the mine dumps polygon coverage
morenci_geo – Arc\Info coverage for the geology polygons and lines
morenci_lin – Arc\Info coverage for the geologic lines not defining polygon boundaries
morenci_pit – Arc\Info coverage for the mine pit polygon coverage
morenci_pnt – Arc\Info coverage for the geologic points

coverages_utm – Arc\Info workspace containing coverages for this project using a UTM projection
info – INFO database subdirectory containing INFO data files and feature attribute table definitions for the coverages
morenci_dmp – Arc\Info coverage for the mine dumps polygon coverage
morenci_geo – Arc\Info coverage for the geology polygons and lines
morenci_lin – Arc\Info coverage for the geologic lines not defining polygon boundaries
morenci_pit – Arc\Info coverage for the mine pit polygon coverage
morenci_pnt – Arc\Info coverage for the geologic points

graphics – folder containing graphic files with default visualizations of the project maps

DI-18plate1.jpg – low resolution default visualization of the geologic map; 150 dpi; scaled to 25%

DI-18plate2.jpg – low resolution default visualization of the cross sections on plate 2; 150 dpi; scaled to 25%

DI-18plate3.jpg – low resolution default visualization of the cross sections on plate 3; 150 dpi; scaled to 25%

other – folder containing additional files used in the ArcView project

fonts – folder containing fonts required for correct symbol display

AZGS_geo.tff– Arizona Geological Survey True Type Font containing custom geologic and cartographic symbols

legends – folder containing the legend files for the ArcView project

cartolines.avl – symbolizes the text lead-in lines and cross section termination lines themes

cartosymbols.avl – symbolizes the cartographic points theme

conc-faults.avl – symbolizes the concealed faults theme

contacts.avl – symbolizes the contacts theme

drillhole.avl – symbolizes the drill holes theme

drillholelines.avl – symbolizes the drill hole lines themes in the cross section views

dumps.avl – symbolizes the mine dumps theme

faults.avl – symbolizes the faults theme

faultzones.avl – symbolizes the fault zones theme

folds-dikes.avl – symbolizes the folds and dikes theme

geology.avl – symbolizes the geology theme in the map view and the ******-poly theme in the cross section views

mapboundary.avl – symbolizes the map boundary theme

mapindex.avl – symbolizes the map index theme

pits.avl – symbolizes the open pits theme

samples.avl – symbolizes the sample sites theme

structure.avl – symbolizes the structure symbols theme

xsec-contacts.avl – symbolizes the lines themes in the cross section views

xsec-lines.avl – symbolizes the *cross section lines* theme

palette – folder containing the ArcView palette used in this project

AZGS_GeoPalette.avp – the ArcView Palette used for this project

projects – folder containing the ArcView project

morenci.apr – ArcView 3.2 project file for the Clifton-Morenci area GIS product

shapefiles_dd – the cartographic shapefiles for the project in geographic coordinates with decimal degree units

A-A'' – folder with A-A'' cross section shapefiles

aa-cartolines_dd.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

aa-cartopnts_dd.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

aa-lines_dd.shp (.dbf, .shx) – shapefile containing geologic lines

aa-poly_dd_dd.shp (.dbf, .shx) – shapefile containing geology polygons

B-B'' – folder with B-B'' cross section shapefiles

bb-cartolines_dd.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

bb-cartopnts_dd.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

bb-lines_dd.shp (.dbf, .shx) – shapefile containing geologic lines
bb-poly_dd.shp (.dbf, .shx) – shapefile containing geology polygons
C-C'' – folder with C-C'' cross section shapefiles
cc-cartolines_dd.shp (.dbf, .shx) – shapefile containing cartographic lines,
such as text lead-in lines
cc-cartopnts_dd.shp (.dbf, .shx) – shapefile containing cartographic points,
such as text label points
cc-lines_dd.shp (.dbf, .shx) – shapefile containing all lines in the cross section
cc-poly_dd.shp (.dbf, .shx) – shapefile containing geology polygons
D-D'' – folder with D-D'' cross section shapefiles
dd-cartolines_dd.shp (.dbf, .shx) – shapefile containing cartographic lines,
such as text lead-in lines
dd-cartopnts_dd.shp (.dbf, .shx) – shapefile containing cartographic points,
such as text label points
dd-lines_dd.shp (.dbf, .shx) – shapefile containing geologic lines
dd-poly_dd.shp (.dbf, .shx) – shapefile containing geology polygons
E-E''' – folder with E-E''' cross section shapefiles
ee-cartolines_dd.shp (.dbf, .shx) – shapefile containing cartographic lines,
such as text lead-in lines
ee-cartopnts_dd.shp (.dbf, .shx) – shapefile containing cartographic points,
such as text label points
ee-lines_dd.shp (.dbf, .shx) – shapefile containing geologic lines
ee-poly_dd.shp (.dbf, .shx) – shapefile containing geology polygons
F-F'' – folder with F-F'' cross section shapefiles
ff-cartolines_dd.shp (.dbf, .shx) – shapefile containing cartographic lines,
such as text lead-in lines
ff-cartopnts_dd.shp (.dbf, .shx) – shapefile containing cartographic points,
such as text label points
ff-lines_dd.shp (.dbf, .shx) – shapefile containing geologic lines
ff-poly_dd.shp (.dbf, .shx) – shapefile containing geology polygons
G-G' – folder with G-G' cross section shapefiles
gg-cartolines_dd.shp (.dbf, .shx) – shapefile containing cartographic lines,
such as text lead-in lines
gg-cartopnts_dd.shp (.dbf, .shx) – shapefile containing cartographic points,
such as text label points
gg-lines_dd.shp (.dbf, .shx) – shapefile containing geologic lines
gg-poly_dd.shp (.dbf, .shx) – shapefile containing geology polygons
H-H'' – folder with H-H'' cross section shapefiles
hh-cartolines_dd.shp (.dbf, .shx) – shapefile containing cartographic lines,
such as text lead-in lines
hh-cartopnts_dd.shp (.dbf, .shx) – shapefile containing cartographic points,
such as text label points
hh-lines_dd.shp (.dbf, .shx) – shapefile containing geologic lines
hh-poly_dd.shp (.dbf, .shx) – shapefile containing geology polygons
mor_cartolines_dd.shp (.dbf, .shx) – shapefile containing the cartographic lines
used as text lead-in lines and cross section termination lines
mor_cartopnts_dd.shp (.dbf, .shx) – shapefile containing the points that define the
location of text labels and cartographic symbols
mor_mapsource_dd.shp (.dbf, .shx) – shapefile containing the polygons that
identify the areal extent of the mapping sources used to compile the geologic
map

mor_xseclines_dd.shp (.dbf, .shx) – shapefile containing the lines representing the surface trace of geologic cross sections

shapefiles_utm – the cartographic shapefiles for the project using a UTM projection

A-A'' – folder with A-A'' cross section shapefiles

aa-cartolines.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

aa-cartopnts.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

aa-lines.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geologic lines

aa-poly.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geology polygons

B-B'' – folder with B-B'' cross section shapefiles

bb-cartolines.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

bb-cartopnts.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

bb-lines.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geologic lines

bb-poly.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geology polygons

C-C'' – folder with C-C'' cross section shapefiles

cc-cartolines.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

cc-cartopnts.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

cc-lines.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing all lines in the cross section

cc-poly.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geology polygons

D-D'' – folder with D-D'' cross section shapefiles

dd-cartolines.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

dd-cartopnts.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

dd-lines.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geologic lines

dd-poly.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geology polygons

E-E''' – folder with E-E''' cross section shapefiles

ee-cartolines.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

ee-cartopnts.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

ee-lines.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geologic lines

ee-poly.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geology polygons

F-F'' – folder with F-F'' cross section shapefiles

ff-cartolines.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

ff-cartopnts.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

ff-lines.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geologic lines

ff-poly.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geology polygons

G-G' – folder with G-G' cross section shapefiles

gg-cartolines.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

gg-cartopnts.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

gg-lines.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geologic lines

gg-poly.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geology polygons

H-H'' – folder with H-H'' cross section shapefiles

hh-cartolines.shp (.dbf, .shx) – shapefile containing cartographic lines, such as text lead-in lines

hh-cartopnts.shp (.dbf, .shx) – shapefile containing cartographic points, such as text label points

hh-lines.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geologic lines

hh-poly.shp (.dbf, .sbn, .sbx, .shx) – shapefile containing geology polygons

mor_cartolines.shp (.dbf, .shx) – shapefile containing the cartographic lines used as text lead-in lines and cross section termination lines

mor_cartopnts.shp (.dbf, .shx) – shapefile containing the points that define the location of text labels and cartographic symbols

mor_mapsource.shp (.dbf, .shx) – shapefile containing the polygons that identify the areal extent of the mapping sources used to compile the geologic map

mor_xseclines.shp (.dbf, .shx) – shapefile containing the lines representing the surface trace of geologic cross sections

tables – the dBase tables that contain the ‘lookup’ data for the coverages and shapefiles

mor_anno.dbf – table describing the symbolization of all point features

mor_color.dbf – table defining RGB values for colors used in the default symbolization

mor_concept.dbf – table of concept names associated with geologic and cartographic objects

mor_drillhole.dbf – table specifying drill hole ID and showing the thickness (in feet) of the formations that the drill hole intersects

mor_grline.dbf – table defining the graphical specification for line symbols in the default symbolization

mor_pattern.dbf – table describing the basic pattern used to symbolize a polygon requiring a pattern fill

mor_samples.dbf – table containing the rock sample ID and describing the age of the rock along with an error bracket and the age dating method used

mor_source.dbf – table containing the citation information for all geologic objects in the dataset

mor_structure.dbf – table containing orientation information for structural points

mor_units.dbf – table defining the geologic map units

tics.dbf – table with UTM coordinates and tic ID for the tics in the map area

text – the metadata and other files that accompany and help describe this project

DI-18_datastructure.pdf – an introduction and guide to the data structure of this project in PDF format

DI-18_metadata.htm – the FGDC metadata for this project in HTML format

DI-18_metadata.txt – the FGDC metadata for this project in plain text format

unit descriptions.pdf – a document describing the geologic map units

topos – USGS 1:24,000 topographic base maps for the project area

DRGMetadata – folder containing the metadata file for the DRG maps

drg_metadata.htm – the metadata for the DRG maps in HTML format

drg_metadata.txt – the metadata for the DRG maps in plain text format

clifton.tif (.tfw) – scanned TIFF image of the Clifton quadrangle with its associated world file

copperplategulch.tif (.tfw) – scanned TIFF image of the Copperplate Gulch quadrangle with its associated world file

coronadomtn.tif (.tfw) – scanned TIFF image of the Coronado Mountain quadrangle with its associated world file

mitchellpeak.tif (.tfw) – scanned TIFF image of the Mitchell Peak quadrangle with its associated world file

DI-18_coverpage.pdf – the DI-series title page for this digital product

DI-18_overview.htm – an overview of the files included in this digital product in HTML format

DI-18_overview.pdf – an overview of the files included in this digital product in Adobe PDF format