sim3036 – Surficial Geologic Map of the Noatak National Preserve, Alaska

Extent and Scale of Data

The database covers of parts of eight 250,000-scale USGS topographic quadrangles. These data were compiled to be viewed at a spatial resolution (scale) of 1:250,000.

Vector Data

This digital database was compiled with ArcInfo version 7.2.1 as coverages, attributes were applied to features, and then the data were converted to a file geodatabase using ArcGIS 9.3.1. Five feature classes contain geologic map data. Seven additional feature classes contain cartographic objects used on the printed version of this map. ArcGIS-compatible GIS software is required to use the files of this database.

The zip file "sim3036-gdb.zip" includes a Geodatabase containing the vector layers listed in the table below, plus an ArcMap project (.MXD) file and an ArcMap symbol (.style) file "wpgcmykg.style" which is used for colors to fill polygons; all in a single workspace directory named "Noatak".

Feature class	Description
noa_town_point	Feature class containing location of town in study area
noa_arrow_arc	Feature class containing glacier directional symbols
noa_pnt_point	Feature class containing points
noa_geo_arc	Feature class containing geologic lines & water boundaries (lines)
noa_geo_polygon	Feature class containing the geologic units (polygons)
noatak_geopolygonUIDAnno	Feature class containing cartographic objects: Unit Label annotation
UID_Leaders	Feature class containing cartographic objects: Unit Label leaders
PlaceLandAnno	Feature class containing cartographic objects: Land place name annotation
PlaceWaterAnno	Feature class containing cartographic objects: Land water name annotation
neat_arc	Feature class containing cartographic objects: neat line (boundary of map area)
noa_npb_arc	Feature class containing cartographic objects: National Preserve Boundary line
noa_qb_arc	Feature class containing cartographic objects: Boundaries of 1:250K USGS quadrangles

Raster Base Data

The topographic base map consists of raster scans of 1:250,000 scale topographic maps for Alaska and is stored in ESRI GRID format, one GRID per quadrangle. The raster GRIDs are contained in folder "Base", which is compressed as ZIP archive "sim3036-base.zip".

To view the raster base using the ArcMap job file (.MXD) that is included in the vector ZIP file, copy the folder "Base" to the "Noatak" folder contained in the vector ZIP "sim3036-gdb.zip".

The raster GRIDs contained in "sim3036-base.zip" are:

ArcInfo grid files	Description
artopo	Ambler River 1:250,000 topographic base (raster)
bmtopo	Baird Mts 1:250,000 topographic base (raster)
dltopo	De Long Mts 1:250,000 topographic base (raster)
hwtopo	Howard Pass 1:250,000 topographic base (raster)
kltopo	Killik River 1:250,000 topographic base (raster)
mutopo	Misheguk Mtn 1:250,000 topographic base (raster)
nttopo	Noatak 1:250,000 topographic base (raster)
sptopo	Survey Pass 1:250,000 topographic base (raster)

Symbolization of Map Data

An ArcMap document (.MXD file) that symbolizes the data to approximate the printed map is contained in the ZIP archive that contains the vector data. This document requires ArcMap to open. For the file to link automatically to the data sources, the correct directory structure needs to be maintained. The directory "Noatak" should contain the following:

Noatak_Web.mxd   ArcMap project file

wpgcmykg.style   symbol file for polygon color fills

gdb Folder containing the Geodatabase that holds the vector files

base Folder containing the raster GRIDs for the base map. (optional)

Metadata

Federal Geographic Data Committee (FGDC) metadata for the geologic map data are available in three different formats: XML, FAQ, and Text.