

Description of Digital Files for the Preliminary Surficial Geologic Map of the Cuddeback Lake 1:100,000-scale quadrangle, California

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Introduction

The U. S. Geological Survey Open-File Report 2006-1276 is a digital geologic data set that maps and describes the surficial geology of the Cuddeback Lake 30' x 60' quadrangle in southern California. These maps and databases are part of the nation-wide digital geologic map coverage being developed by the National Cooperative Geologic Map Program of the U.S. Geological Survey (USGS). This document describes the types and contents of files that make up the database. Information on how to extract and plot the map also is provided.

Digital Open-File Contents

This Open-File Report consists of three digital packages. The first is the Documentation Package, which consists of this file in text and Adobe Portable Document Format (PDF), a Portable Document Format (PDF) file of the pamphlet (which includes a more detailed description of map units), FGDC metadata for the Report in text and html formats. The second is Digital Database Package, which contains the geologic map database itself and associated metadata. The third package is the Plot file Package, which contains an on-screen viewable or printable image of the geologic map created from the database in Adobe Acrobat PDF (<http://www.adobe.com/>) format (see Plot file Package sections below). Although the plot file represents much of the information in the database, cartographic representation is complicated by the use of long map unit labels and narrow aspect ratio polygons. Those who have computer access can use the plot file packages in any of the three ways described below (see the section Obtaining the Digital Database and Plot file Packages).

Those without computer access can obtain plots of the map files through USGS plot-on-demand service for digital geologic maps (see section Obtaining plots from USGS Open-File Services) or from an outside vendor (see Obtaining plots from an outside vendor). Note: filenames used in this report are based on combinations of the Open-File Report number, followed by an underscore, followed by the number of the package, followed by an alphabetic character denoting the part of that package, followed by a three or four character file extension. For example, for a text file of the metadata part of the documentation package (package number 1) in Open-File Report OF99_999 (a fictitious report number) a file would be named of099_999_1a.txt

Documentation Package

The Documentation Package includes descriptions of this report, including instructions on how to get the report, data formats and content. It consists of three parts,

a "Read Me" text description (this file), FGDC compliant metadata describing the report, and a revision list. This documentation package contains the following:

ReadMe_of06_1276.txt	a text file of the report text (this file)
ReadMe_of06_1276.pdf	a PDF file of the report text (this file)
of06_1276_pamphlet.pdf	a PDF file of the pamphlet to accompany the map including geologic interpretation, figures, and a description of map units
of06_1276_1a.txt	a text file of FGDC compliant metadata for this report
of06_1276_1a.htm	an HTM file of FGDC compliant metadata for this report

Digital Database Package

The database package includes the geologic map database files:
of06_1276_2a.mxd
of06_1276_2b.mdb

The database file should be consulted for the metadata files for the individual feature classes contained within the database, only the following files: of06_1276_1a.txt, a text file and of06_1276_1a.htm, a HTML version of the FGDC compliant metadata are provided.

We have included a style file (of06_1276_2c.style) with embedded color and line types. The style contains a set of color fills with associated attributes used to assign the fills and line types in ArcMap to polygon and line features (arcs) by matching the attribute terminology. In ArcMap, styles are applied to features using the "Match to symbols in a style" choice under the "Categories" menu in Symbology tab. Note: consult the metadata or the Database Specifics section of this Report for details of the format and content of the digital database.

Plot file Package

For those interested in the geology of the map area that does not use an ARC/INFO compatible GIS system, we have included a separate data package of printable maps created from the database. Because this release is primarily a digital database, the plot files (and plots derived from) have not been edited to conform to U.S. Geological Survey cartographic standards. Small units have not been labeled with leaders and in some instances map features or annotations overlap. The map image is 36 by 70 inches and requires a large plotter to produce paper copies at the 1:100,000 scale. The technical context of the map has undergone scientific review. The map images were created using a technique that composites the geologic map with the U.S. Geological Survey Digital Raster Graphic (DRG) for the map area, but the 'collar' information contained in the DRG was not presented on the geologic map. The file

of06_1276_3a.pdf is a PDF format file containing an image of the geologic map, at a scale of 1:100,000.

Obtaining the Digital Database and Plot file Packages

The digital data can be obtained in two ways:

- a. From the USGS Web Pages
- b. Sending a CDR with request
- c. Contacting USGS Open-File Services

To obtain zip files of database or plot file packages from the USGS web pages:

The U.S. Geological Survey web site is located: <http://www.usgs.gov/>

The direct URL to the web page for this Report is:

<http://pubs.usgs.gov/of/2006/1276>

To obtain zip files of database or plot file packages on CDROM:

Database files, the PDF plot file, and related files can be obtained by sending a recordable compact disk (CDR) with request and return address to:

Cuddeback Lake 30'x60', California Database
c/o Database Coordinator
U.S. Geological Survey
345 Middlefield Road, MS 973
Menlo Park, CA 94025

Do not omit any part of this address!

NOTE: Be sure to include with your request the exact names, as listed above, of the zip files you require. An Open-File Report number is not sufficient, unless you are requesting both the database package and plot file package for the report.

Obtaining plots from USGS Open-File Services

The U.S. Geological Survey will make plots on demand from map files such as those described in this report. The U.S. Geological Survey's Map on Demand website can be found at <http://store.usgs.gov/mod/>

Be sure to include with your request the publication number and the exact names, as listed above, of the plot file(s) you require. A publication number and its letter alone are not sufficient, unless you are requesting plots of all the plot files in this report. You may wish to determine the price before placing an order.

Note that not all parts of this report (such as this text and the spatial data) are plot files, and may not be provided by the Map on Demand service.

Order plots:
USGS Information Services
Box 25286
Denver Federal Center
Denver, CO 80225-0046
1-888-ASK-USGS
FAX: (303) 202-4693
e-mail: infoservices@usgs.gov

Obtaining plots from a commercial vendor:

Many commercial vendors are capable of producing large format plots for a fee. Most commercial vendors will require the plot files to be on a CD-ROM or other portable disk format. Users may download the data from the Internet and create their own CD-ROM, or we can provide one (See To obtain zip files of database or plot file packages on CDROM). Make sure your vendor is capable of reading compact disks and PDF plot file, and be certain to provide a copy of this document to your vendor.

Digital Compilation

The map represents primarily new digital mapping, minor compilation of published mapping within the restricted areas of the China Lake Naval Weapons Center and United States Air Force Gunnery Range was used to supplement the remote sensing interpretation. Features were digitized on various remote sensing datasets at varying scales before being transferred to the geologic database.

The following quality control measures were taken: Geologic lines attributed as a 'contact' were checked to verify the contact did not separate geologic map units of the same type. No lines attributed as contacts exist as 'dangles'. Each geologic polygon is attributed with only one map unit designator described in the pamphlet.

Base Maps

The base map presented on the geologic map images in this report is the Cuddeback Lake 1:100,000 scale U.S. Geological Survey Digital Raster Graphic (DRG) for the map area. DRGs are available from the U.S. Geological Survey, as well as other data providers, and are not distributed with this report.

Spatial Resolution

Uses of this digital geologic map should not violate the spatial resolution of the data. Although the digital form of the data removes the constraint imposed by the scale of a paper map, the detail and accuracy inherent in map scale are also present in the digital data. This database was edited at a scale of 1:100,000, this means that higher resolution information is not present in the dataset. Plotting at scales larger than

1:100,000 will not yield greater real detail, although it may reveal fine-scale irregularities below the intended resolution of the database. Similarly, where this database is used in combination with other data of higher resolution, the resolution of the combined output will be limited by the lower resolution of these data.

Digital database format

The database in this report was compiled in ARC/INFO, a commercial Geographic Information System (Environmental Systems Research Institute, Redlands, California). All GIS work was done in ARC/INFO version 9.0 using ArcMap.