

DESCRIPTION OF THE DIGITAL DATABASE FOR  
LIDAR-REVISED GEOLOGIC MAP OF THE OLALLA 7.5' QUADRANGLE, KING, KITSAP,  
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USGS SCIENTIFIC INVESTIGATIONS MAP 3277

INTRODUCTION

This digital database for the LIDAR-REVISED GEOLOGIC MAP OF THE OLALLA 7.5' QUADRANGLE (USGS SIM 3277) includes several ArcInfo coverages (individual vector datasets) along with supporting files and metadata. The coverages have been converted to ArcInfo export files. Relative to coverages, ArcInfo export files are easier to transport from one ArcInfo installation to another and are usable by some other Geographic Information Systems.

All GIS data are in STATEPLANE projection, zone 5601, units FEET, SPHEROID, GRS1980 horizontal datum NAD83.

Together with the geologic pamphlet, the database provides georeferenced information on the geologic structure and stratigraphy of the area covered. The database delineates map units that are identified by general age and lithology following the stratigraphic nomenclature of the U.S. Geological Survey. The spatial resolution (scale) of the database is 1:24,000 or less. The content and character of the database, as well as how to obtain the database, are described below.

GEOLOGIC CONTENT

This database contains 3 ArcInfo coverages with geologic content:

OLAGEOL Network coverage with arcs, polygons, and polygon label points.

OLASTRUCT Point coverage of bedding plane strikes and dips with orientation data

OLASAMPOINT Point coverage of dated samples and paleomagnetic sample localities

OLABEDSPEC Arc coverage with location of specific beds too thin to show at map scale and fossil shore lines

BASE MAP CONTENT

OLADRAIN Arc coverage showing digitized streams and rivers

OLARDS Arc coverage of roads

DIGITAL DATABASE AND METADATA PACKAGE (sim3277\_database.zip)

The ARC export files and associated ArcInfo coverages, as well as the additional digital material included in the database package, are described below:

File	Description
OlallaREADME.txt	This readme file
olarelief.tif	Uncompressed TIFF-format shaded relief image with geologic map unit colors
olarelief.tfw	World file that locates wcgrelief.tif in Stateplane projection, units feet, datum NAD83
olageol-genmd.txt	Text-format FGDC-style metadata for the database package as a whole

Each coverage within the Geology and Base subdirectories contains detailed XML-format FGDC-style metadata specific to the coverage. This metadata is stored as file metadata.xml within the coverage directory, and is easily browsed from within ArcCatalog, or read with a web browsers (e.g., Firefox, Safari, Internet Explorer). Cover olageol contains an html document for metadata.

#### Geology subdirectory

- olageol.e00 ArcInfo export file of geologic contacts, faults, and generalized map units
- olastruct.e00 ArcInfo export file of bedding strike and dip
- olabedspec.e00 Arcinfo export file of special beds and fossil shore lines
- olasampoint.e00 Arc info export file of sample location points

#### Base subdirectory

- olatroads.e00 ArcInfo export file of roads
- oladrain.e00 ArcInfo export file of Drainage network

Users of the database package may wish to download the pamphlet (sim3277\_pamphlet.pdf) for the contained Description of Map Units.

The material described above is available on the World-Wide Web at <http://pubs.usgs.gov/sim/3277/>.

## ZIP FILES

The files described above are packaged within a ZIP file. Utilities to uncompress ZIP files are available for most all operating systems and may be found readily with a simple web search.

## DIGITAL DATABASE FORMAT

The databases in this report were compiled in ArcInfo, a commercial Geographic Information System (Environmental Systems Research Institute, Redlands, California). ArcInfo coverages were converted to uncompressed ARC export files (.e00 extention, ArcInfo version 9.3 for Windows XP). These export files can be converted into back into coverages in ArcInfo with the IMPORT command, e.g.,

```
Arc: import cover xxx.e00 xxx
```

where xxx is the coverage name. The files can also be read by some other Geographic Information Systems. While specifications for the .e00 format has not been published by Environmental Systems Research Institute, the files are plain ASCII, the structure is relatively easy to decode and 3rd-party descriptions are available via Web search for ".e00 format".

## OBTAINING THE DIGITAL DATABASE

Go to

```
http://pubs.usgs.gov/sim/3277/
```

to access the database package and the remainder of this publication.

## ACKNOWLEDGMENTS

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