DIGITAL DATABASE FOR GEOLOGIC MAP OF THE VALDEZ D-1 AND D-2 QUADRANGLES (MOUNT WRANGELL VOLCANO), ALASKA

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SPATIAL DATASETS

The spatial datasets for this report are provided in a variety of formats that can be used with ArcGIS or other GIS capable software. We also provide an ArcGIS MXD file that will display the geology as it appeared on the published map sheet.

Spatial data contents

The spatial datasets for the Geologic Map of the Valdez D-1 and D-2 Quadrangles (Mount Wrangell Volcano), Alaska consist of:

> A zip file of geodatabases and associated files containing base layers, geology, and standalone tables. The ArcGIS files are for use with version 10.0 or greater.

sim3351_databases.zip

carto_data

va_carto.gdb – Cartographic datasets used for the base information on the published geologic map
contours/vaice_ct_Anno – Glacial contour annotation
contours /vaice_ct_Anno_mask – Mask out contours behind annotation
contours /vaice_ct_arc – Glacial contours
contours /valand_ct_Anno – Surface contour annotation
contours /valand_ct_Anno_mask – Mask out contours behind annotation
contours /valand_ct_arc – Surface contours
names/leaders – Place name leaders
names/placenames – Place name annotation

       water/NHDFlowline – National Hydrography Dataset streams

       water/NHDWaterbody – National Hydrography Dataset lakes

fonts

    FGDCGA_.TTF – FGDCGeoAge font used for special geologic age symbol in unit labels

    FGDCGeoSymXX.ttf – Five numbered font files containing symbols used by some of the geologic lines in AKgeologyAC.style

geologic_data

    va_geology.gdb – Geologic datasets on the published geologic map

       geology/vadike_arc – Dikes

       geology/vageol_arc – Geologic linework

       geology/vageol_poly – Geologic units

       geology/vaunit_anno – Geologic unit annotation

       geology/vaunit_leaders – Leaders for unit annotation

       section/nye_section – Section line

       stations/Anno_2_4_1 – Relationship class for station annotation

       stations/vastations – Station locations

       stations/vastationsAnno– Annotation for stations

       structure/Anno_5_6 – Relationship class for structure annotation

       structure /vastruc – Bedding structure

       structure /vasturcAnno– Annotation for bedding structure

       Standalone tables

       table1_chem_analyses – Data from table 1 of the report

       table2_radiometric_ages – Data from table 2 of the report

       vageol_lut – Symbol, label, and description for each unique *class* value

metadata

    Metadata describing the geologic datasets in txt, html, faq html, and xml formats.

shapefiles

    Copies of the geologic datasets from va_geology.gdb in an alternate format.

    vadike_arc.shp – Dikes

    vageol_arc.shp – Geologic linework

    vageol_poly.shp – Geologic units

    vastations.shp – Station locations

    vastruc.shp – Bedding structure

styles

    AKgeologyAC.style – Symbology used for geologic lines

    wpgcmykg.style – Symbology used for geologic units

tables

Copies of data tables one and two provided in xls, dbf, and csv formats.

ValdezSIM.mxd – ArcGIS map document for viewing and querying the geologic datasets. See following section for contents of MXD.

ArcGIS map document

After contents of the zip package sim3351_databases.zip have been downloaded and extracted to the local hard drive, there will be a new folder named sim3351_databases. Within this folder is the map document ValdezSIM.mxd which can be opened by users who have ArcGIS version 10.0 or greater installed on their computer. The MXD should not be moved from this folder before opening it, because this will break the links to the associated GIS databases. Double clicking on the MXD will launch ArcMap and open the file. Once open, users are free to view, query, print, or modify the properties of any of the layers in this MXD. Listed below are the contents of ValdezSIM.mxd. Group layers are shown in bold.

Unit annotation

vaunit_anno – Annotation for unit labels

vaunit_leaders – Leaders for unit labels

Base annotation

placenames – Annotation for place names

leaders – Leaders for place names

Strike&Dip

vastrucAnno – Annotation for bedding structure

vastruc – Bedding structure

Stations

vastationsAnno – Annotation for stations

vastations – Station locations

nye_section – Section line

Geology linework

vadike_arc – Dikes

vageol_arc – Geologic linework

Overprints – Overprint patterns for altered areas

Hydrology

NHDWaterbody – Outlines for lakes

NHDFlowline – Single sided streams

NHDWaterbody – Lakes

Glacier contours

vaice_ct_Anno – Glacial contour annotation

vaice_ct_Anno_mask – Mask out contours behind annotation using layer masking

vaice_ct_arc – Glacial contours

Surface contours

valand_ct_Anno – Surface contour annotation

valand_ct_Anno_mask – Mask out contours behind annotation using layer masking

valand_ct_arc – Surface contours

Geology polygons

vageol_poly – Geologic units

Tables

vageol_lut – Symbol, label, and description for each unique *class* value. Joined to vageol_poly to provide symbology and unit information