

Identification_Information:

Citation:

Citation_Information:

Originator: Karen L. Wheeler, Ray E. Wells, Joseph M. Minervini, and Jessica L.

Block

Originator: Karen L. Wheeler, Joseph M. Minervini, and Jessica L. Block (database)

Publication_Date: 2009

Title: Geologic Map of the Carlton quadrangle, Yamhill County, Oregon

Geospatial_Data_Presentation_Form: vector digital data

Series_Information:

Series_Name: Open-File Report

Issue_Identification: OFR-2009-1172

Online_Linkage: <http://pubs.usgs.gov/of/2009/1172>

Description:

Abstract: This digital map database, compiled from previously published and unpublished data and new mapping by the authors, represents the general distribution of bedrock and surficial deposits of the Carlton 7.5-minute quadrangle. The database delineates map units that are identified by general age and lithology following the stratigraphic nomenclature of the U.S. Geological Survey. The scale of the source maps limits the spatial resolution (scale) of the database to 1:24,000 or smaller.

Purpose: This database and accompanying PDF files depict the distribution of geologic materials and structures at a regional (1:24,000) scale. The report is intended to provide geologic information for the regional study of materials properties, earthquake shaking, landslide potential, mineral hazards, seismic velocity, and earthquake faults. In addition, the report contains new information and interpretations about the regional geologic history and framework. However, the regional scale of this report does not provide sufficient detail for site development purposes.

Supplemental_Information:

DIGITAL COMPILATION-Several ESRI ArcGIS feature classes were generated within an ArcGIS personal geodatabase during the construction of the Carlton quadrangle geologic map. The topographic base map remains as a digital raster graphic (DRG) and is overlain on the geology feature class in ArcMap at a 60% transparency level. Some custom menus were used to project, transform, edit, tag, and build points in the map. A digital layout or map collar was made with Adobe Illustrator. The map was exported from the layout view in ArcMap as an Adobe Illustrator file and added to a single Adobe Illustrator file that also contained the description of map units, correlation of map units, cross sections, and an index map. Differences between the maps as they appear in the final map sheet and as they appear in the either the .mxd or .pmf files represent changes made in the Adobe Illustrator file to the symbology only and do not reflect any changes in the actual source data. The map is in UTM projection, zone 10, meters, and 1:24,000 scale.

BASE MAP-The base map for the digital compilation is a Digital Raster Graphic (DRG) of the U.S. Geological Survey, 1:24,000-scale topographic map of the Carlton 7.5' quadrangle (1992), which has a 20-foot contour interval. The image inside the map neatline is georeferenced to the Universal Transverse Mercator projection, zone 10,

NAD27. The horizontal positional accuracy and datum of the DRG matches the accuracy and datum of the source map. The base map layer is a digital image, but no information other than location is attached to the lines. The base map is provided for reference only.

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. The fact that this database was edited at a scale of 1:24,000 means that higher resolution information is not present in the dataset. Plotting at scales larger than 1:24,000 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.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2009

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -123.250550

East_Bounding_Coordinate: -123.124725

North_Bounding_Coordinate: 45.375206

South_Bounding_Coordinate: 45.249794

Keywords:

Theme:

Theme_Keyword: Geology

Place:

Place_Keyword: Pacific Northwest

Place_Keyword: Oregon

Place_Keyword: Yamhill County

Place_Keyword: Carlton

Place_Keyword: Willamette Valley

Place_Keyword: Yamhill River

Stratum:

Stratum_Keyword: Yamhill Formation

Stratum_Keyword: Eocene Stratigraphy

Stratum_Keyword: Spencer Formation

Stratum_Keyword: Missoula floods

Access_Constraints: None

Use_Constraints: 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. The fact that this database was edited for a scale of 1:24,000 means that higher resolution information is not present in the dataset. Plotting at scales larger than 1:24,000 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.

Native_Data_Set_Environment: Microsoft Windows XP Version 5.1 (Build 2600)
Service Pack 3; ESRI ArcCatalog 9.2.6.1500

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 659

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 210

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 61

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 86

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 85

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 1

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 312

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 312

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 329

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 331

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: 280

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 1
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: G-polygon
Point_and_Vector_Object_Count: 281
Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:
UTM_Zone_Number: 10
Transverse_Mercator:
Scale_Factor_at_Central_Meridian: 0.999600
Longitude_of_Central_Meridian: -123.000000
Latitude_of_Projection_Origin: 0.000000
False_Easting: 500000.000000
False_Northing: 0.000000
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 0.000100
Ordinate_Resolution: 0.000100
Planar_Distance_Units: meters
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1927
Ellipsoid_Name: Clarke 1866
Semi-major_Axis: 6378206.400000
Denominator_of_Flattening_Ratio: 294.978698
Vertical_Coordinate_System_Definition:
Altitude_System_Definition:
Altitude_Resolution: 0.000010
Altitude_Encoding_Method: Explicit elevation coordinate included with horizontal coordinates
Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: CarltonGeologyContacts
Detailed_Description:
Entity_Type:
Entity_Type_Label: CarltonGeologyPolysAnno
Detailed_Description:
Entity_Type:
Entity_Type_Label: CarltonStrucLines
Detailed_Description:
Entity_Type:
Entity_Type_Label: CarltonStrucPoints

Detailed_Description:

Entity_Type:

Entity_Type_Label: CarltonStrucPointsAnno

Detailed_Description:

Entity_Type:

Entity_Type_Label: CarltonXsecLine

Detailed_Description:

Entity_Type:

Entity_Type_Label: CarltonGeologyPolys

Identification_Information:

Citation:

Citation_Information:

Online_Linkage:

\\typhoon\esp2\wells12\data\or\yamhill\carlton\OFR2009_1172\Carlton.mdb

Data_Quality_Information:

Lineage:

Process_Step::

Process_Description: Dataset copied.

Source_Used_Citation_Abbreviation: G:\or\yamhill\carlton\Carlton.mdb

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: CarltonGeologyContacts

Entity_Type_Definition: Geologic Contacts

Entity_Type_Definition_Source: Author

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: OBJECTID

Attribute:

Attribute_Label: Shape_Length

Attribute_Definition: Length of feature in internal units.

Attribute_Definition_Source: ESRI

Attribute:

Attribute_Label: LTYPE

Attribute_Definition: Geologic Contact description

Attribute_Definition_Source: Author

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: contact, approx. located

Enumerated_Domain_Value_Definition: Approximately located boundary between geologic units; positional accuracy generally within 5 mm at 1:24,000 (120 m on the ground)

Enumerated_Domain:

Enumerated_Domain_Value: contact, concealed

Enumerated_Domain_Value_Definition: Boundary between geologic units that is concealed by a younger unit; positional accuracy uncertain but probably generally within 5 mm at 1:24,000 (120 m on the ground)

Enumerated_Domain:

Enumerated_Domain_Value: fault, certain

Enumerated_Domain_Value_Definition: Trace of fault, positional accuracy generally within 2 mm at 1:24,000 (48 m on the ground)

Enumerated_Domain:

Enumerated_Domain_Value: fault, concealed

Enumerated_Domain_Value_Definition: Trace of fault concealed by younger unit positional accuracy uncertain but probably generally within 5 mm at 1:24,000 (120 m on the ground)

Enumerated_Domain:

Enumerated_Domain_Value: fault, concealed, queried

Enumerated_Domain_Value_Definition: Trace of fault concealed, identity or existence questionable, concealed by younger unit positional accuracy uncertain but probably generally within 5 mm at 1:24,000 (120 m on the ground)

Enumerated_Domain:

Enumerated_Domain_Value: fault, inferred

Enumerated_Domain_Value_Definition: Trace of fault of uncertain location; positional accuracy uncertain; fault exists but location inferred from indirect evidence.

Enumerated_Domain:

Enumerated_Domain_Value: fault, inferred, queried

Enumerated_Domain_Value_Definition: Trace of fault of uncertain location, identity or existence questionable; positional accuracy uncertain; fault exists but location inferred from indirect evidence.

Enumerated_Domain:

Enumerated_Domain_Value: normal fault, concealed

Enumerated_Domain_Value_Definition: Trace of normal fault concealed by younger unit positional accuracy uncertain but probably generally within 5 mm at 1:24,000 (120 m on the ground)

Enumerated_Domain:

Enumerated_Domain_Value: normal fault, inferred

Enumerated_Domain_Value_Definition: Trace of normal fault of uncertain location; positional accuracy uncertain; fault exists but location inferred from indirect evidence.

Enumerated_Domain:

Enumerated_Domain_Value: normal fault, inferred, queried

Enumerated_Domain_Value_Definition: Trace of normal fault of uncertain location, identity or existence questionable; positional accuracy uncertain; fault exists but location inferred from indirect evidence.

Enumerated_Domain:
Enumerated_Domain_Value: quad boundary
Enumerated_Domain_Value_Definition: map boundary of this 1:24000 study
Attribute_Domain_Values:
Unrepresentable_Domain: Positive real numbers that are automatically generated.

Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: CarltonGeologyPolys
Entity_Type_Definition: Geologic Unit Descriptions
Entity_Type_Definition_Source: Authors
Attribute:
Attribute_Label: OBJECTID
Attribute_Definition: Internal feature number.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:
Attribute_Label: Shape
Attribute_Definition: Feature geometry.
Attribute_Definition_Source: ESRI
Attribute_Domain_Values:
Unrepresentable_Domain: Coordinates defining the features.

Attribute:
Attribute_Label: PTYPE
Attribute_Definition: Geologic Unit Abbreviation
Attribute_Definition_Source: Authors
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: Qa
Enumerated_Domain_Value_Definition: Alluvial deposits (Holocene)—
Unconsolidated clay, silt, sand, and gravel deposited on floodplains and in channels of rivers and streams; locally includes colluvium and terrace deposits along valley margins

Enumerated_Domain:
Enumerated_Domain_Value: Qaf
Enumerated_Domain_Value_Definition: Alluvial fan and colluvial deposits (Holocene and Pleistocene)— Unconsolidated sand and gravel deposited at the mouths of steep tributary streams. Includes colluvial aprons

Enumerated_Domain:
Enumerated_Domain_Value: Qls
Enumerated_Domain_Value_Definition: Landslide deposits (Holocene and Pleistocene)—Accumulation of angular to subrounded clasts of weathered bedrock, commonly in a mud-dominated matrix, transported from upslope. Forms hummocky topography and may include thick colluvial and debris-fan deposits. Many small unmapped landslides exist

Enumerated_Domain:

Enumerated_Domain_Value: Qff

Enumerated_Domain_Value_Definition: Missoula Flood deposits (upper Pleistocene)—Unconsolidated clay, silt, and fine sand finely micaceous, deposited by glacial outburst floods that flowed down the Columbia River from glacial Lake Missoula. Floods filled the Willamette Valley to a depth of about 120 m (Glenn, 1965; Allison, 1978; O'Connor and others, 2001; Minervini and others, 2003) and back flooded up the Yamhill River. Deposits are commonly 2-3 m thick on uplands in this map area, thickening to 30 m elsewhere in the Willamette Valley. Ice-rafted exotic boulders to pebbles of plutonic and metamorphic rocks occur locally up to 120 m elevation. Radiocarbon dating, tephrochronology, and stratigraphic relations outside the map area indicate a ¹⁴C age of 15 to 12.7 ka (approximately 18-15 ka; O'Connor and others, 2001)

Enumerated_Domain:

Enumerated_Domain_Value: Qtd

Enumerated_Domain_Value_Definition: Terrace deposits (upper Pleistocene)—Unconsolidated to semiconsolidated sand and gravel of Coast Range source in terraces along the North Yamhill River. Gravel consists of basalt and silicic volcanic clasts. Forms planar to slightly undulating surfaces up to 20 meters above the modern floodplain. Deposits exposed in hand auger holes and a few small outcrops along the western side of North Yamhill River

Enumerated_Domain:

Enumerated_Domain_Value: Tk

Enumerated_Domain_Value_Definition: Keasey Formation (upper Eocene)—Siltstone, silty claystone, and mudstone; tuffaceous, light gray to buff, laminated to bioturbated and massive; found only near northeast corner of map. West of the map area, in the Tillamook Highlands, the Keasey Formation contains foraminifera referable to the Refugian stage of Schenck and Kleinpell (1936) (W.W. Rau, written communication, 1988) and a molluscan assemblage referable to the type Keasey Formation (Warren and others, 1945; Wells and others, 1995)

Enumerated_Domain:

Enumerated_Domain_Value: Tes

Enumerated_Domain_Value_Definition: Spencer Formation (upper Eocene)—Quartzofeldspathic and lithofeldspathic sandstone; fine to medium grained, light gray to tan, friable, plane laminated to hummocky cross stratified, very micaceous, carbonaceous, and locally concretionary; lesser amounts of laminated thin-bedded mudstone becoming more massive and locally tuffaceous upsection. Forms ridgetops along east side of map area. In adjacent Tillamook Highlands, contains foraminifera referable to the uppermost Narizian stage (W.W. Rau, written communication, 1988; Wells and others, 1995). Weathers to golden yellow, friable sand; case-hardened with many burrows, fractures, and spheroidal weathering that obscures internal bedding. Contact with underlying Yamhill Formation locally gradational or unconformable; springs along contact

Enumerated_Domain:

Enumerated_Domain_Value: Ty

Enumerated_Domain_Value_Definition: Yamhill Formation (upper middle Eocene)—Siltstone and mudstone, dark gray, laminated, finely micaceous and

carbonaceous, thin to massively bedded, with calcareous and iron-stained concretions and carbonaceous plant fragments. Unit contains minor lithic sandstone, submarine basaltic lapilli breccia, and white, cross-bedded and ripple-laminated, silicic tuff beds. Lower part of unit is intruded by thick regional diabase sill complex (Tidb). Thin, graded, arkosic sandstone beds occur in upper part of unit. Forms lowlands and low hills covered by thin mantle of Missoula flood silt below 400 ft elevation. Exposure is poor; weathered, yellowish tan siltstone exposed in roadside ditches and animal burrows. Rare foraminifera in adjacent Tillamook Highlands are referred to the upper Ulatisian-lower Narizian stages, and coccoliths from the Gales Creek quadrangle to the north are assigned to the CP 13c subzone (D. Bukry, written communication, 1997)

Enumerated_Domain:

Enumerated_Domain_Value: Tsr

Enumerated_Domain_Value_Definition: Siletz River Volcanics (early Eocene and late Paleocene)—Aphyric to plagioclase- and pyroxene-phyric pillow basalt, subaerial basalt flows, basalt breccia, submarine basaltic tuffs, and interbedded lithic sandstone and mudstone. Shown in cross section only; presence at depth inferred from proprietary seismic line in adjacent Gaston Quadrangle (Jack Meyer, written communication, 2001)

Enumerated_Domain:

Enumerated_Domain_Value: Tidb

Enumerated_Domain_Value_Definition: Diabase (middle Eocene)—Aphyric to plagioclase-phyric, amygdaloidal diabase with smectite, zeolite and calcite vesicle fillings. Forms sills with well developed columnar joints and locally layered appearance. Intrudes late middle Eocene Yamhill Formation; west of the map area sills are hundreds of meters thick and are cut by Tillamook-age dikes at 41.0 Ma (Wells and others, 1995), suggesting an age of about 42-45 Ma; as mapped, may include some basalt and diabase correlative with the Tillamook Volcanics (Wells and others, 1995). Contact relations with Yamhill Formation sedimentary rocks poorly exposed beneath thick colluvium of weathered diabase and sediment. Weathers to a reddish orange clay-rich soil containing spheroidally weathered diabase clasts. Multiple sills are inferred, and complex interfingering relations with Yamhill Formation are not shown on maps or cross section

Attribute:

Attribute_Label: Style

Attribute_Definition: Reference Number for Color of Polygon Links to Style

Attribute_Definition_Source: Authors

Attribute:

Attribute_Label: Shape_Length

Attribute_Definition: Length of feature in internal units.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: Shape_Area

Attribute_Definition: Area of feature in internal units squared.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: CarltonGeologyPolysAnno

Attribute:

Attribute_Label: OBJECTID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: SHAPE

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FeatureID

Attribute:

Attribute_Label: ZOrder

Attribute:

Attribute_Label: AnnotationClassID

Attribute:

Attribute_Label: Element

Attribute:

Attribute_Label: SHAPE_Length

Attribute_Definition: Length of feature in internal units.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: SHAPE_Area

Attribute_Definition: Area of feature in internal units squared.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: CarltonStrucLines

Entity_Type_Definition: Location of structural lines (folds).

Entity_Type_Definition_Source: Authors

Attribute:

Attribute_Label: OBJECTID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: LTYPE

Attribute_Definition: Structural line type.

Attribute_Definition_Source: Authors

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: f.a., anticline, concealed

Enumerated_Domain_Value_Definition: fold axis, anticline, concealed

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: f.a., anticline, concealedm

Enumerated_Domain_Value_Definition: fold axis, anticline, concealed, "m"

marker symbol segment

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: f.a., anticline, inferred

Enumerated_Domain_Value_Definition: fold axis, anticline, inferred

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: f.a., anticline, inferred, plungeE

Enumerated_Domain_Value_Definition: fold axis, anticline, inferred, plunging

east

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: f.a., anticline, inferredm

Enumerated_Domain_Value_Definition: fold axis, anticline, inferred, "m" marker

symbol segment

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: f.a., syncline, certain

Enumerated_Domain_Value_Definition: fold axis, syncline, certain

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: f.a., syncline, certain, plungeE

Enumerated_Domain_Value_Definition: fold axis, syncline, certain, plunging east

Attribute_Domain_Values:

Enumerated_Domain:
 Enumerated_Domain_Value: f.a., syncline, certainm
 Enumerated_Domain_Value_Definition: fold axis, syncline, certain, “m” marker
 symbol segment
 Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value: f.a., syncline, concealed
 Enumerated_Domain_Value_Definition: fold axis, syncline, concealed
 Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value: f.a., syncline, concealedm
 Enumerated_Domain_Value_Definition: fold axis, syncline, concealed, “m”
 marker symbol segment
 Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value: f.a., syncline, inferred
 Enumerated_Domain_Value_Definition: fold axis, syncline, inferred
 Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value: f.a., syncline, inferred, plungeE
 Enumerated_Domain_Value_Definition: fold axis, syncline, inferred, plunging east
 Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value: f.a., syncline, inferred, plungeW
 Enumerated_Domain_Value_Definition: fold axis, syncline, inferred, plunging
 west
 Attribute_Domain_Values:
 Enumerated_Domain:
 Enumerated_Domain_Value: f.a., syncline, inferredm
 Enumerated_Domain_Value_Definition: fold axis, syncline, inferred, “m” marker
 symbol segment
 Attribute:
 Attribute_Label: Shape_Length
 Attribute_Definition: Length of feature in internal units.
 Attribute_Definition_Source: ESRI
 Attribute_Domain_Values:
 Unrepresentable_Domain: Positive real numbers that are automatically generated.

Entity_and_Attribute_Information:
 Detailed_Description:
 Entity_Type:
 Entity_Type_Label: CarltonStrucPoints
 Entity_Type_Definition: Geologic Bedding Measurements
 Entity_Type_Definition_Source: Authors
 Attribute:
 Attribute_Label: OBJECTID
 Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: PTTYPER

Attribute_Definition: Geologic Bedding Description

Attribute_Definition_Source: Authors

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: bedding

Enumerated_Domain_Value_Definition: Strike and dip of beds

Enumerated_Domain:

Enumerated_Domain_Value: horizontal bedding

Enumerated_Domain_Value_Definition: beds horizontal

Enumerated_Domain:

Enumerated_Domain_Value: joint

Enumerated_Domain_Value_Definition: Strike and dip of joint in rock

Enumerated_Domain:

Enumerated_Domain_Value: _1_faultdip_i_

Enumerated_Domain_Value_Definition: fault dip and inclination

Enumerated_Domain:

Enumerated_Domain_Value: _1_lineation_i_

Enumerated_Domain_Value_Definition: lineation on fault

Attribute:

Attribute_Label: STRIKE

Attribute_Definition: Strike of beds

Attribute:

Attribute_Label: DIP

Attribute_Definition: Dip of beds

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: CarltonStrucPointsAnno

Attribute:

Attribute_Label: OBJECTID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: SHAPE

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: FeatureID

Attribute:

Attribute_Label: ZOrder

Attribute:

Attribute_Label: AnnotationClassID

Attribute:

Attribute_Label: Element

Attribute:

Attribute_Label: SHAPE_Length

Attribute_Definition: Length of feature in internal units.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: SHAPE_Area

Attribute_Definition: Area of feature in internal units squared.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: CarltonXsecLine

Entity_Type_Definition: Location of Cross Section Lines

Entity_Type_Definition_Source: Authors

Attribute:

Attribute_Label: OBJECTID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: SHAPE

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: Linetype

Attribute_Definition: Cross Section Lines

Attribute_Definition_Source: Authors

Enumerated_Domain_Value: contact

Enumerated_Domain_Value_Definition: Location of author's cross section

Attribute:

Attribute_Label: XSecName

Attribute_Definition: Cross Section Label

Attribute_Definition_Source: Authors

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: a1

Enumerated_Domain_Value_Definition: Cross Section Line A-A'

Attribute:

Attribute_Label: SHAPE_Length

Attribute_Definition: Length of feature in internal units.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Entity_and_Attribute_Information:

Detailed_Description:

Title: ctn_drg.tif

Geospatial_Data_Presentation_Form: remote-sensing image

Online_Linkage: ctn_drg.tif

Description:

Abstract: BASE MAP-The base map for the digital compilation is a Digital Raster Graphic (DRG) of the U.S. Geological Survey, 1:24,000-scale topographic map of the Carlton 7.5' quadrangle (1992), which has a 20-foot contour interval. The image inside the map neatline is georeferenced to the Universal Transverse Mercator projection, zone 10, NAD27. The horizontal positional accuracy and datum of the DRG matches the accuracy and datum of the source map. The base map layer is a digital image, but no information other than location is attached to the lines. The base map is provided for reference only.

Purpose: Base material for geology map

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 2009

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -123.250550
East_Bounding_Coordinate: -123.124725
North_Bounding_Coordinate: 45.375206
South_Bounding_Coordinate: 45.249794

Keywords:

Theme:

Theme_Keyword_Thesaurus: DRG

Theme_Keyword: DRG

Access_Constraints: none

Use_Constraints: none

Native_Data_Set_Environment: Microsoft Windows XP Version 5.1 (Build 2600)

Service Pack 3; ESRI ArcCatalog 9.2.6.1500

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Raster

Raster_Object_Information:

Raster_Object_Type: Pixel

Row_Count: 4032

Column_Count: 5705

Vertical_Count: 1

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: row and column

Coordinate_Representation:

Abscissa_Resolution: 2.438400

Ordinate_Resolution: 2.438400

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS Information Services

Contact_Address:

Address_Type: mailing address

Address: Box 25286, Denver Federal Center

City: Denver

State_or_Province: CO

Postal_Code: 80225-0046

Country: USA

Contact_Voice_Telephone: (303) 202-4200

Contact_Voice_Telephone: 1-888-ASK-USGS

Contact_Facsimile_Telephone: (303) 202-4695

Contact_Electronic_Mail_Address: infoservices@usgs.gov

Resource_Description:

Downloadable Data

USGS Scientific Open-File Report 2009-1172

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: <http://pubs.usgs.gov/of/2009/1172/>

Fees: free

Metadata_Reference_Information:

Metadata_Date: 20090728

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: U.S. Geological Survey Pacific Northwest Urban Corridor

Mapping Project

Contact_Person: Karen Wheeler

Contact_Address:

Address_Type: mailing and physical address

Address: 345 Middlefield Rd

Address: MS 973

City: Menlo Park

State_or_Province: CA

Postal_Code: 94025

Country: USA

Contact_Voice_Telephone: (650) 329-4935

Contact_Facsimile_Telephone: (650) 329-4936

Contact_Electronic_Mail_Address: kwheeler@usgs.gov

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>

Profile_Name: ESRI Metadata Profile