- LIST OF MAP UNITS**
- [See Description of Map Units (in pamphlet) for complete unit descriptions]
- SURFICIAL DEPOSITS**
- NONGLACIAL DEPOSITS**
- GLACIAL DEPOSITS**
- SURFICIAL DEPOSITS AND BEDROCK**
- BEDROCK**
- CONTACTS**
- FAULTS**
- LIDAR LINEAMENT**
- REVERSE FAULT**
- PLUNGING SYNCLINE**
- PLUNGING ANTICLINE**
- GLACIAL MARINE SHORELINE**
- STRIKE AND DIP OF BEDDING**
- INCLINED**
- HORIZONTAL**
- SYMBOLS ADDED TO LIDAR BASE**
- MAJOR HIGHWAYS**
- SECONDARY HIGHWAYS**
- SIGNIFICANT UNSURFACED AND SURFACED ROADS**
- MOSTLY UNSURFACED IMPROVED ROADS**
- STREAM**

Contour base and collar from U.S. Geological Survey, 1983 (rev. 1973) Washington State Plane projection, north zone, NAD27, reprojected into NAD83 coordinates. Hillshade image calculated from 6-ft lidar DEM, Puget Sound Lidar Consortium. Lidar data acquired 2001–2002.

APPROXIMATE MEAN DECLINATION, 2011

SCALE 1:24,000

CONTOUR INTERVAL 40 FEET

NATIONAL GEODEIC VERTICAL DATUM OF 1927 AND 1929

MAP LOCATION

Geology mapped by Howard Gower (1979), Jim Yount (1979), Peter J. Haeussler and Ray Wells (1988). Revision by Ralph A. Haugerud (2001–2009) and Rowland W. Tabor (2008–2009). GIS database and digital cartography by Rowland W. Tabor and Ralph A. Haugerud. Base map culture cartography interpreted from lidar by Rowland W. Tabor (2008–2009). Edited by J.L. Ziegler; digital cartographic production by Darlene A. Ryan. Manuscript approved for publication May 27, 2011.

Some small areas of unconsolidated materials combined with others. Units of af and Qrg not shown. Thickness of unconsolidated material locally exaggerated.

Lidar-revised Geologic Map of the Uncas 7.5' Quadrangle, Clallam and Jefferson Counties, Washington

By
Rowland W. Tabor, Peter J. Haeussler, Ralph A. Haugerud, and Ray Wells
2011

Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government. When this map is printed on an electronic plotter directly from digital files, dimensional calibration may vary between electronic plotters and between X and Y directions on the same plotter, and paper may change size due to atmospheric conditions; therefore, scale and proportions may not be true on plots of this map. Digital files available at <http://pubs.usgs.gov/sim/3160/>

[See Description of Map Units (in pamphlet) for complete unit descriptions.]

NONGLACIAL DEPOSITS

II (Holocene)

GLACIAL DEPOSITS	
	Deposits of the Vashon Stage of Fraser Glaciation of Armstrong and others (1965) (Pleistocene)
Qmg	Gravel-dominated recessional outwash deposits (upper Pleistocene)
Qmrl	Fine-grained recessional glaciomarine or glaciolacustrine deposits (upper Pleistocene)
Qmri	Ice contact deposits (upper Pleistocene)
Qrt	Till (upper Pleistocene)
Qrg	Rilled ground (upper Pleistocene)
Qvas	Sand-dominated advance outwash deposits (upper Pleistocene)
Qov	Valley-fill glacial and glacioluvial deposits (upper Pleistocene)
Qval	Advance outwash lake deposits (upper Pleistocene)

previ	Pre-Vashon-stade till deposits (upper Pleistocene and (or) older)
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- **Contact**—Dashed where approximately located; dotted where concealed
Contact inferred—Separates unit *prevt* from overlying units (see pamphlet)
Fault—Dashed where approximately located; dot-dashed where inferred, dotted where concealed, queried where uncertain. **U**, upthrown block; **D**, Down-thrown block. Arrows show strike-slip displacement
Reverse fault—Dashed where approximately located; dotted where concealed; teeth on overthrust block
LIDAR lineament—Cutting Pleistocene erosional features; see discussion (pamphlet)
Plunging syncline—Dashed where approximately located; dotted where concealed
Plunging anticline—Dashed where approximately located; dotted where concealed
Glacial marine shoreline
Strike and dip of bedding
Inclined
Horizontal
Symbols Added to LIDAR base
Major highways
Secondary highways
Significant unsurfaced and surfaced roads
Mostly unsurfaced improved roads
Stream

Index to mapping sources,
Uncas quadrangle, Washington

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