



Geologic Units

QUATERNARY SEDIMENTS

NONGLACIAL DEPOSITS

- Qf Fill and modified land (Holocene)
- Qb Beach deposits (Holocene)
- Qa Alluvium (Holocene)
- Qp Peat and marsh deposits (Holocene)
- Qls Landslide deposits (Holocene)
- Qaf Alluvial fan deposits (Holocene to Pleistocene?)
- Qoc Sediments of the Olympia(?) nonglacial interval (Pleistocene) (cross sections and cliff section only)

GLACIAL DEPOSITS

Fraser Glaciation, Vashon Stade

- Qgdm Glaciomarine drift (Pleistocene)
- Qgo Recessional outwash (Pleistocene)
- Qgl Glaciolacustrine deposits (Pleistocene)
- Qgt Till (Pleistocene)
- Qga Advance outwash (Pleistocene)
- Qgd Drift, undivided (Pleistocene)

Pre-Fraser Glaciation

- Qgfp Possession Drift(?) (Pleistocene) (sea cliff section only)

GLACIAL AND NONGLACIAL DEPOSITS

Fraser and pre-Fraser events

- Qguc Glacial and nonglacial deposits, undivided (Pleistocene)

Pre-Fraser events

- Qgpc Glacial and nonglacial deposits, undivided (Pleistocene) (cross sections and sea cliff section only)

TERTIARY SEDIMENTARY AND VOLCANIC ROCKS

- M0mp Pysht Formation (Miocene to Oligocene)
- 0Emm Makah Formation (Oligocene to Eocene)
- Em2h Hoko River Formation (late Eocene)
- Em2a Aldwell Formation (middle Eocene)

Crescent Formation and the Blue Mountain Unit

- Evc Basalt, basalt breccia, diabase, and rhyolite (early to middle Eocene)
- Emc Marine sedimentary rocks (early to Middle Eocene)
- Elrm Blue Mountain unit, sandstone facies (Eocene to Paleocene?)
- Elrmc Blue Mountain unit, conglomerate and pebbly sandstone facies (Eocene to Paleocene)

Geologic Symbols

- Contact - dotted where concealed
- Contact - long dash where approximately located; short dash where inferred
- Fault - unknown offset, concealed, queried where uncertain; showing relative motion; U, upthrown block; D, downthrown block
- Thrust fault - sawteeth on upper plate; dotted where concealed
- Anticline - long arrow shows direction of plunge; dotted where concealed
- Syncline - long arrow shows direction of plunge; dotted where concealed
- Scarp of fluvial terrace - hachures point in direction of lower elevation
- Inclined bedding
- Vertical bedding - '90' indicates direction of top of beds
- Overtured bedding

Well Symbols

- Water well, location verified - USGS location code shown above symbol; drilled depth (in feet) shown below symbol for wells used to construct cross sections
- Water well, location unverified - USGS location code shown above symbol; drilled depth (in feet) shown below symbol for wells used to construct cross sections

Sample Location Symbols

- Sample site - geochemical analyses
- Sample site - foraminiferal assemblages
- Sample site - radiometric analyses

Geologic Map of the Morse Creek 7.5-minute Quadrangle, Clallam County, Washington

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2002