

## Olympic Peninsula Summer Session 2006

### General trip route

This trip was run from Spokane, WA to the Vantage Overlook on the Columbia River. In Seattle, a ferry brought us to Port Townsend, WA. The trip focused on the Olympic Peninsula National Park and vicinity. Map links are provided in the packet materials.

### Physiographic provinces and areas covered

Columbia Plateau

Puget Sound

Olympic Mountains

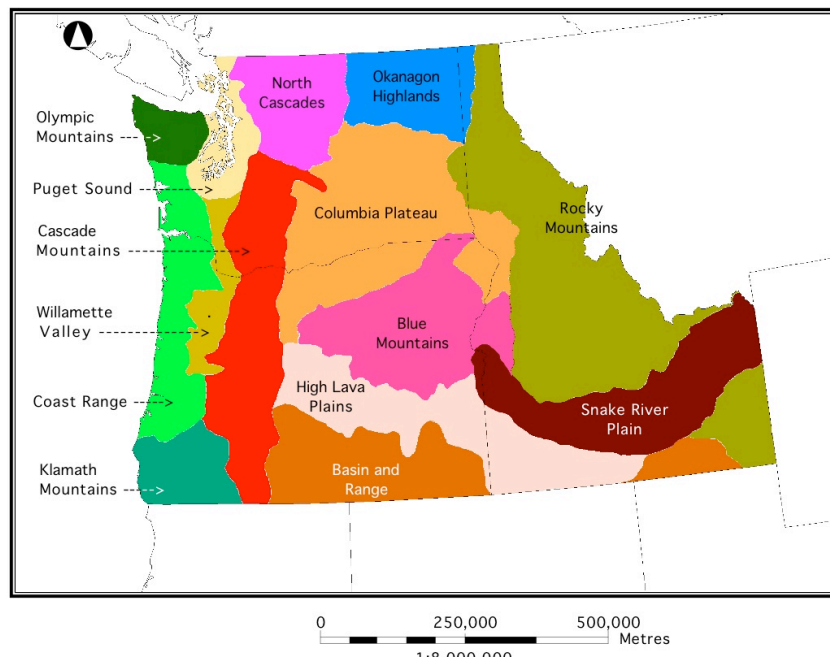
### Geology of the Pacific Northwest Physiographic Provinces

Cartography by Frank D. Granshaw  
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**Note:**  
Boundaries are approximate

#### Reference

Rosenfeld, C., 1985, Landforms and Geology, in *Atlas of the Pacific Northwest*, Kimerling, A.J. and Jackson, P.L., p. 40



### **Suggested geology topics for discussion during trip**

- Physiographic provinces of Washington State
- Columbia River flood basalts
- Channeled Scablands
- Tectonic domains of the Olympic Peninsula
- Glaciation in the Olympics
- Dune and spit formation
- Coastal processes, tsunamis
- Sea stack formation, wave dynamics
- Turbidites
- Elwha River restoration project

**Columbia Plateau** – Outcrops of columnar jointed basalt and pillow lavas are abundant in the area.

- Vantage overlook – Columbia River

### **Olympic Peninsula** – suggested stops

- Dungeness Spit hike (time permitting)
- Hurricane Hill hike
- Olympic National Park Visitors Center
- Glines Canyon Dam on the Elwha River
- Hike up Geyser Valley from Whiskey Bend Road on the Elwha River
- Boulder Creek Hot Springs
- Hoh Rain Forest Visitor Center hike
- Cape Alava hike from Lake Ozette – this is a fantastic hike and is highly recommended
- Third Beach
- Bay Center Ghost Forest

National Park Service (<http://www.nps.gov>) is also an excellent resource for planning your trip.

See <http://geomaps.wr.usgs.gov/parks/olym/ftmap.html> for a geology tour.