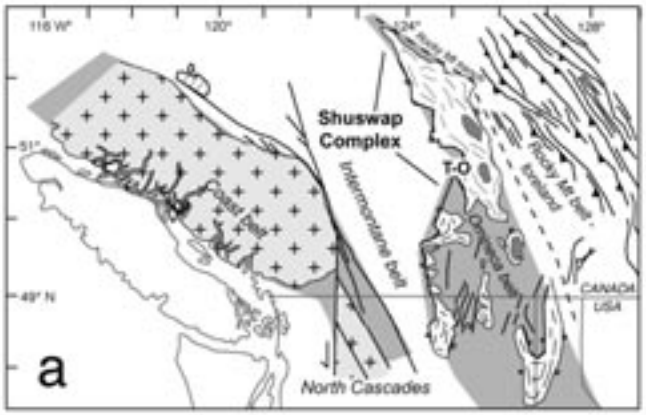
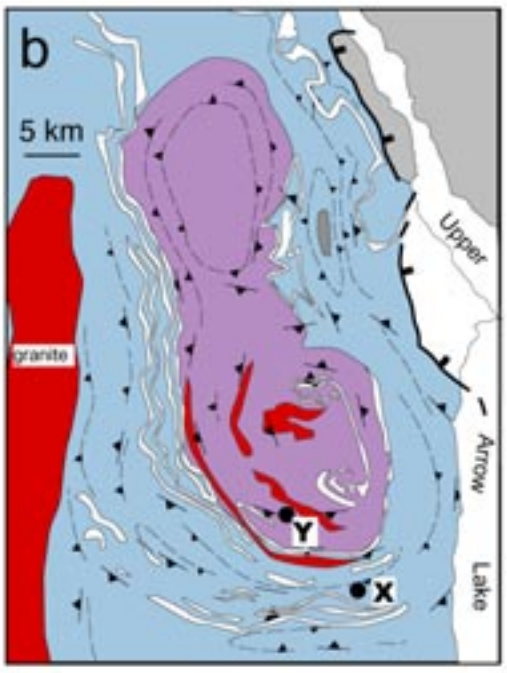
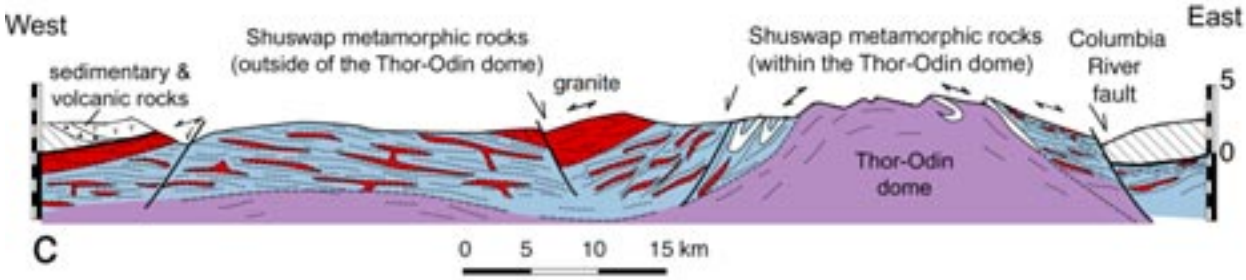
Shuswap Metamorphic Complex
British Columbia, Canada



(a) Map of the northern North American Cordillera showing the location of the Shuswap Complex in southern British Columbia. Also shown is the location of the Thor-Odin dome (T-O) within the complex. The Complex is part of a north-south trending metamorphic belt in British Columbia (Canada). Washington, and Idaho (USA): Omineca belt.



(b) Schematic geological map of the Thor-Odin dome region of the Shuswap Complex. The dome rocks are shown in purple, and the surrounding metamorphic rocks are shown in blue. Note the locations of Samples X and Y. The red units are granites and the thin white stripes are quartzite. The small lines with black triangles show the orientation of foliation, and the thick black line east of the dome is the Columbia River normal fault. The Complex is bounded on the west by another normal fault (see the E-W cross-section shown in Figure (c).



(c) East-west cross-section through the Shuswap Complex at the latitude of the Thor-Odin dome. The Complex is comprised of metamorphic rocks intruded by granites and tectonically overlain by sedimentary and volcanic rocks, juxtaposed with the metamorphic and plutonic rocks along normal faults. The Complex contains Precambrian rocks but was most recently metamorphosed during Late Cretaceous to Eocene mountain-building events in western North America.