



Figure 1. Some elements of the mid-Eocene event in the Pacific Northwest. Lighter brown area is possible extent of Siletzia at deeper crustal levels inboard, as suggested by seismic studies (e.g. Clowes et al., 1987). Queried wedge east of the Straight Creek fault is speculative. Interpretation of the Olympic-Wallowa line (OWL) and related faults as R' shears (see inset) is also somewhat speculative, but well documented sinistral faults west of the Cascades also strike WNW (Wells and Coe, 1985). Note the dominance of broadly northeast-southwest contraction; NW-SE extension in northern Washington had waned by 46 Ma, when major strike slip began on the Straight Creek fault. The Yalakom and Ross Lake faults appear to be offset equivalents (Umhoefer and Miller, 1996).