



By approximately 13,000 years ago, the southern Puget lowland was free of ice and the ice margin had receded to the vicinity of Port Townsend (Thornton, 1979, p. 39). Thereafter, the ice continued to melt and recede northward through the Strait of Juan de Fuca. Although the receding ice margin probably rapid, pauses or still-stands of the glacier margin may have occurred. These still-stands are suggested by the presence of submerged banks which may be remnants of recessional deposits along the submarine ice margin in the eastern Strait of Juan de Fuca. These banks are ridges of sand and gravel, some of which are the Anchor Banks and Lawson Reef. The origin of these banks remains uncertain, but samples dredged from them contained numerous faceted and striated cobbles typical of glacial deposits (Anderson, 1968). Such evidence suggests a glacial origin for these submarine features. At a time of lower sea level, Thornton (1979, p. 39) suggested that the tops of the submerged banks may have resulted from wave erosion.

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Since glacial time, coastal and fluvial erosion have produced sediment that has been deposited in the troughs of the strait of Juan de Fuca and Puget Sound. The major rivers of the region have made the largest contribution to the filling of the original glacial troughs. In the map are, the Skagit, Stillaguamish, and Snohomish Rivers have transported sand, silt, and clay that now fill former shallow arms of the marine system; continuing deposition has built deltas into the deeper

[For use of those readers who may prefer to use U.S. customary unit than metric units, the conversion factors for the terms used in this

To convert from	To	Multiplication factor
Length		
meter (m)	foot (ft)	3.28
fathom (fm)	meter (m)	1.83
kilometer (km)	mile (mi)	0.62
Area		
kilometer ² (km ²)	mile ² (mi ²)	0.39

Figure 3.—Generalized distribution of submarine sediments in the Port Townsend quadrangle.

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