

for the presence of shells in the various <sup>zone, for example,</sup> *Maecma nouata* is found to be common <sup>on outer limits</sup> of bay and also at the upper reaches of the bay but with decreasing numbers in the center of the bay. Examined several *Schizotham nuttallii* and found them inactive during low tide even when found covered with water and siphons exposed. The expelled water was considerable lower than the surface water about. The temperature of the water may be a more important factor than the presence or lack of water in this case. Found the distribution between the two species of *Arenicola* interesting with the large one confined to the low tide zone and the small one to the upper limits of bay. These two worms would be useful in determining the oxygen respiration factor of two closely related forms of annelida. *Larus Californicus* in some population number as last week, with approx 50 present.

Smith Island, San Juan Island, San Juan County, Wash.  
 Approx 122° 50 1/2' longitude and 48° 19' latitude.

28 July

Investigated this island for chitons and made collection <sup>(1(1)-7-28-49) to 1(12)-7-28-49</sup> from the low tide level on north side of island. These chitons were found under the numerous rocks that line these beaches. While the boulders were numerous they were settled in which made the available underside of rocks exposure useless for the chitons. The stratigraphy is interesting for this island and consists as follows:

