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generally under water. They are only 490702-25
 above the water levels. Mopalia ciliata & Lepidochitona raymondi were
 typically under rock forms. Lepidochitona raymondi also
 takes this position. No Cytochiton stelleri found in these
 tide pools but is nodants represent in the deeper waters below
 low tide. Three species of scoters were observed to be
 continually feeding over algae beds directly south of the
 barrier reef. At high tide these birds may move northward to
 a point above the eel grass but uncommonly beyond
 they are. Oidemia americana, melanitta deglandis, melanitta
parvirostris. Adult Larus glaucescens fit at help zone
 and above submerged algae area by eating what appeared to
 be small fish. They follow the Baird Cormorants and eat
 fish and Invertebrate as they are disturbed by the diving
 Cormorants.

July 2

Oceanographic Laboratory, Friday Harbor, Wash.

Determined layer sequence for transect problem as follows.

$$\begin{aligned}
 \frac{1}{1000} \text{ cu meter} &= 1.000 \text{ sq cm } (\frac{1}{10} \text{ sq meter}) \times 0 \text{ cm} = \text{surface } \textcircled{1} \\
 \frac{1}{500} " " &= " " " " \times 2 \text{ cm} = 2 \text{ cm depth } \textcircled{2} \\
 \frac{1}{250} " " &= " " " " \times 4 \text{ cm} = 4 \text{ cm depth } \textcircled{3} \\
 \frac{1}{125} " " &= " " " " \times 8 \text{ cm} = 8 \text{ cm depth } \textcircled{4} \\
 \frac{1}{62.5} " " &= " " " " \times 16 \text{ cm} = 16 \text{ cm depth } \textcircled{5} \\
 \frac{1}{31.25} " " &= " " " " \times 32 \text{ cm} = 32 \text{ cm depth} \\
 \frac{1}{15.625} " " &= " " " " \times 64 \text{ cm} = 64 \text{ cm depth} \\
 \frac{1}{7.8125} " " &= " " " " \times 128 \text{ cm} = 128 \text{ cm depth} \\
 \frac{1}{3.90625} " " &= " " " " \times 256 \text{ cm depth}
 \end{aligned}$$

July 5

Falze Bay, San Juan Island, San Juan County, Washington.

Collected series of Chitons from some tide pool all all previous collections. This tide pool is approx 15 x 10 meters and 1 meter deep in deepest part. At near high tide the water covers the pool. During the low period it is quiet and slightly warmer in temperature. The following chitons were taken from beneath the boulders in the pool.

1-7-5-49 to 11-7-5-49 Lepidochitona raymondi.

12-7-5-49 Mopalia lignosa. Screened sands and muds 10 feet from shore line and found numerous Areniculus at about 50 m.m. to 150 m.m. deep generally resting on clay. Send 93-7-5-49 Leptosynapta taken at 1050 fms in Falze Bay for identification.

Minnesota Key, San Juan Island, San Juan County, Washington

Class group collected from outer island approx 100 meters S.E of the reef. This area has proven to be the most prolific of the various collecting station, as apply to chitons. This may be due to the actual topography, or to the combination of partially protected position and the constant source of debris supplied by the main reef to the west. This general circulation of water