

Along second bar from water edge.

Hermit - tube 8" long

Chaetoptera -

Protoboscas

macoma

Crustacean under sand dollar. (Nebalia sp)

large number of worm tubes

Trinacrella and many amphipods


Egg case of Philine a tectibranch snail

Callistornis with Hermit Crab.

Calystina Chinese hat shell. ♂ and ♀ on same shell.

Nebalia from beneath sand dollar from 8 to 25 in number.

High local wind today. Occasional Cepphus columba beyond surf. One Haliaeetus leuccephalus alascanus flew over bay from point at south side to north. Few gulls reached. Flew 80 ft surface of bay.



Larus glaucescens⁽¹⁸⁾ in bay at all times and confined mainly to area near front. Corvus brachyrhynchus caurinus common in bay area and tracks frequently observed in sands of bay. Left bay and visited Aiqyle lagoon where many clams were present, including.

Tapes semidecussata

Saxodorus giganteus

Mya arenaria

Return to Oceanographic Laboratory at 11:30 A.M.

24 June

Oceanographic Laboratory, San Juan Island, Wash
 Determined quadrat size of 31.65 m.m x 31.65 m.m or
 1001.7325 sq m.m or 10 sq meter. (1 sec = 30.885 meters)

25 June

Minnesota Reef, San Juan Island, San Juan County
 Washington. Dr Swan and Class inspected Minnesota
 Reef at the south end of San Juan Island. This reef isolated
 as an island due to the low dredging bar between the
 mainland and the reef. The island proper is rocky with
 typical island vegetation of conifers, salmon berry etc. Shows
 rock with considerable silt on east side. West side more
 typically rock and receives the blunt of the winds and waves
 of the Straits of Juan De Fuca to the south and west.
 Each student was to pursue own interests. Observed the
Argobuccinum snail and egg mass of the low tide zone.
 This snail deposits its eggs along the outer surface of the egg
 mass. Shape highly suggestive of sunflower pattern and size
 of egg. East side best for clams of several species.
 Observed several more or less solitary Balanus tuberosus.