

SIO 73-234

State & Country: off Mexico Field No. MV 73-II
 County: Map: 1
 Locality: midway between Isla Maria Cleofas (of Islas Tres Marias) and Punta de Mita (at north end of Bahía Banderas) Lat. $20^{\circ}(59.0-58.9')$ N., Long. $105^{\circ}(56.0 \rightarrow 57.0')$ W.
 Water: ocean Overall: $59.0'$ $56.5'$
 Vegetation:

Bottom: very regular slope.

Cover: Temp.:
 Shore: Current: overall

Dist. offshore: 23.5 to 24.5 naut. miles Stream width: $(930 \rightarrow 101$ fm (-)

Depth of capture: nearly all bottom Depth of water: $124 \rightarrow 115$ fm (-)

Collected by Carl H. Hubbs & party on SIO R/V Alexander Agassiz, on Tides cruise CalCOFI 7303-G Date: 14: 1: 1973

Method of capture: 40-ft. cotton otter trawl

Orig. preserv.: 10% buffered formalin Time: overall $2121 - 2227$ hrs. MST
 holding $2145 - 2205$ "

10 O samples taken at 2' and 4' off bottom at $20^{\circ} 58.0' N, 105^{\circ} 58.5' W$. by 22:50 hrs. Average of 2, 0.77 ml/l. (thought to be reliable). Run by Chaemian B. McMillan.

Bulk of fish, snails, made up of *Bostrichopsis*? (several used for parasite and heart-eggs studies - to be added to series + identification reported to Dr. Mary Hanson Pritchard and Richard S. Lee.

Also caught *Micristius* (2; 1, injured, used for parasite study).

In this haul were one heteropod and a few "jellies" from midwater, but no myctophids or ~~bioluminescent~~ bathylagids (perhaps low oxygen extends to near surface?).

In the net was nearly 1 cubic meter of plant debris, including a piece of log, estimated to weigh 300 lbs, and various other pieces of trunks and other parts, including 1 mangrove leaf in good condition, 2 of the reproductive structure of mangroves, etc. Also 1 squid beak and premaxilla of a large fish. Another "fish cemetery"?

(over)

Carl H. Hubbs

MAY 14 1973

Richard S. Lee reports having retained at UCSB
4 specimens of Protuloides? - C.L.H.

61 Cherublemma emmelas

35 (62-110)