

SIO73-287

State or Country: Costa Rica, W coast Field No. MV-73-I-81

County: Map: H0930 ed. 1962

Locality: south of Punta Guineas

Lat. $09^{\circ}(32.5 \rightarrow 36.7)$ N., Long. $85^{\circ}(43.0 \rightarrow 40.5)$ W.

Water:

Vegetation:

Bottom: blackish green-brown, very sticky sand & clay, with abundant foraminifera
Cover: containing much foraminifera

Shore: of volcanic rock Current: strong

Dist. offshore: 21.5 $\rightarrow$ 16.5 naut. miles Screen width: Holding 765-905 fath

Depth of capture: bottom and midwater Depth of water: overall 1062 $\rightarrow$ 633 $\rightarrow$ 795

Collected by: 10-ft. Isaacs-Kidd Midwater Trawl - meter net cod-end

Tide: ebb Sail: Hubbs + party on SIO R/V Date: 1 V. 20: 1973

Method of capture: Alexander Agassiz, on cruise 7303-G

Orig. preserv.: 10% buffered formalin Time: holding 1436-1610 hrs CST

overall 1350-1755 " "

Total length of operation 5 miles.

Though some misadventure of instruction on navigation (currents strong) course intended (NW) became more nearly NE, so instead of deeping in deep water for a tow being held at 3500 m with out we ran directly in shoal water.

Operation was planned by Robert L. Wisner but was not closely watched and the G-DR observers were obviously not informed to report shrimping. Finally Capt. Davis reported to Wisner that position of ship had not changed for 45 min, although pit log had indicated 27-30 knot speed!

Then Wisner checked G-DR and promptly ordered haul at holding, from planned 4 hours and called for retrieval at once, after 1 hr, 46 min. Started in at 1610, and arrived at ship 1755.

Trawl had obviously, as expected, dug into soft bottom, and contained 2 large plastic traps & the sticky bottom. Cod end was disconnected to wash and rest of net was hung over main ship, from which it without being notice rolled off into sea - not having been secured by a safety line (despite prior experience).

(over)

~~over~~
During this catastrophe I had
pulled in for a wink of sleep having
been up since before 0500 hrs. All
hands were obviously overtired and no
dissatisfaction was expressed.
The vane and the codehead were kept aboard.
Spencer R. Luke washed the goo
through a 1-mm screen and put up
much material (forams and other
invertebrates).

Fishes included one fine Coryphaenoides
which after removal by Richard S. Lee
of right side gills and heart and removal
of viscera by Dr. Pritchard & Ms. Moser
was sewed back (by me) into a semblance
of fish appearance, and preserved
in a 1-gal. jar with a modicum of
midwater fish (1 Malacosteus ^{new for coll.} & 1 Stomias,
at least 1 Sternoptyx (new for collection), etc.

Carl L. Hubbs.

MAY 14 1973

Richard S. Lee reports having retained at
UCSB the gills and heart of the
Coryphaenoides for measurement. - C.L.H.

62 <u>Coryphaenoides liraticeps</u> (Garman)	1 (355)
10 <u>Stomias atriventer</u>	2 (135-178)
10 <u>Vinciguerria lucetia</u>	1 (47)
10 <u>Sternoptyx obscura</u>	1 (14)
10 <u>Argyropelecus lychnus</u>	2 (23-25) (cont'd)

Continuation

SIO 73-287

State or Country: Field No.
County: Map:, 1.
Locality:
..... Lat. N., Long. W.
Water:
Vegetation:
Bottom:
Cover: Temp.:
Shore: Current:
Dist. offshore: Stream width:
Depth of capture: Depth of water:
Collected by
Tide: Date:
Method of capture:
Orig. preserv.: Time:

25 Benthosema panamense 1(25.5)

State or Country: Costa Rica, west coast Field No. MV 73-I-82

Locality: ~~off~~ off Punta Guiones, Map: HO 930, ed. 1963
22.5 nautical miles off Punta Guiones

Lat. $09^{\circ}42.5'$ N., Long. $86^{\circ}00.5'$ W.

Water: clear, blue

Vegetation:

Bottom: on narrow flat bottom of trough

Cover:

Temp.:

Shore:

Current:

Dist. offshore: see above

Stream width:

Depth of capture: bottom

Depth of water: 1394 fath. GDR

Collected by Carl L. Hubbs & party on SIO R/V Alexander

~~Agassiz~~ on cruise 7303 G

Date: IV:20-21:1973

Method of capture: free vehicle trap/setline combination*

Orig. preserv.:

Time: 2237-0925

CST

*Operation planned & supervised by Ronald R. McConnaughey. Setline with 25 hooks baited with squid, set 1 m. apart vertically above McConnaughey 3-chambered Trap baited with mackerel, squid, & shrimp. First sighted on radar ca. 0845; on board 0925.

Hook from top nos. 4, 7, & 14 bottom off (at surface?).

No fish on line or trap, which yielded amphipods again.

Carl L. Hubbs