

State or Country: California Field No. 457-223
County: San Diego Map: USC & GS 5101, 1945
Locality: San Diego Trough

Lat. $32^{\circ}33'20'' \rightarrow 32^{\circ}44'00''$ N, Long. $117^{\circ}34'45'' \rightarrow 117^{\circ}40'30''$ W.

Water: clear, salt
Vegetation: none

Bottom: green mud
Cover: none

Shore: Temp.:
Current:

Dist. offshore: 15.5 - 20.7 miles (naut) Stream width:

Depth of capture: ~~640~~ 530 feet (Comp) Depth of water: ~~640~~ 640 \rightarrow 610 fathoms

Collected by SIO MV Horizon - 2 trawls, Wilkes, Walker, Davenport & party

Tide: Date: XII-11-12:1953

Method of capture: 10' Seabs-Kill bean - depression midwater trawl

Orig. preserv.: 10% form. + 40% tap. Time: Oct. 22.00 \rightarrow 01.03. Total duration

See fish saved. 2045 \rightarrow 0140

I: 19: 1554
26

Trawl #2 No closing device.

Most of invertebrates picked out by Santa Barbara College group, except for a 2-pt jar, mostly of small organisms and

3 squid

2 pelagic amphipods (for UCLA through Brown?)

2 platyhelminths for UCLA

Miscellaneous coelenterates

Pyrosoma alive for Dr. J. A. Hirst. Colin Nicol.

8 Talismania bifurcata (Parr): ^{3 larvae, 11-16 mm. 1 specimen not taken} 3 yg. ²⁶ 23-35 mm. ²⁶ 23 mm. largest specimen counted.

To R.S. Casey
I: 6: 1959

Leuroglossus stilbius Gilbert: 10 yg. - ad, 28-90 mm. (good condition, some alive, showed no luminescence, except for possible sheen on sides of face + 275 eggs with specimens?)

9 Bathylagus classensis Chapman: 1 ad, 149 mm. milled, but weak. Gift to NEL 17 Aug. '68

Bathylagus n.sp.: 2 ad, 53-73 mm. achotensis Comp. taken

10 Cyclothone signata Garman: 3 sp. ^{11/20} (21-26 mm)

Possibly caught in way up. Cyclothone acclinidens Garman 8 sp. ^{12/20} ab. 25-52 mm.

0 ^{aTropia} Cyclothone pallida Brauer: 4 ad., 53-60 mm. 5 (28-57)

10 Sternoptyx obscura Garman: 1 flgr., (24 mm.)

To T.S. Ross II-6: 1959

25 Electrona arctica (Lütken): 1 flgr., 26 mm.

25 Tarletonbeania crenularis (Jordan + Gilbert): 1 postlarva (18 mm.)

25 Diaphus Theta Eigenmann + Eigenmann: 2 flgr. (23-24 mm.)

luminescence greenish blue

Lampanyctus leucopsarus (Eigenmann + Eigenmann):

44 ~~43~~ ^{flgr.} at 26-82 mm. Some clin. eye bell eye

L. regalis (Gilbert): 1 ad. 99 mm. ^{NANNOBRACHIUM regale}

25 L. mexicanus (Gilbert): 12 yg.-ad. (16-56 mm.)

Triphoturus

6 Avocettia boursii (Garman): 1 ad, 468 mm.

Levivomer rector Garman: 1 ad, ab. 570 mm.

Stomach swollen, apparently with a small Lampanyctus

31A Melanophras cristiceps Gilbert: 3 flgr. - ad. 37-82 mm.

Poromitra crassiceps frontalis Largest lively, about as luminous

Scopelopadys mizolepis

31B Melanophras bispinosus (Gilbert): 2 ad., (54-72)

60 Chiasmodon niger Johnson: 2 ad., 88-111 mm.

Large was distended with remains of a fish identified from size, dark color, and scale structure - Bathylagus

alascanus Chapman. Fine condition (Chapman)

Remain of fish kept in jar.

Carl L. Hubbs.

F: 25: 1953

Additional species - eggs and larvae

Identified by Dr. L. O'Brien

8. Allogaulis mordax mordax (Zinn): 97 eggs
+ 111 larvae.
9. 3 large eggs, probably Nansenia or Microstoma

53. Sebastolobus (?) altivelis ??
2 larvae

61. Egg - (?) - similar Otophidium.

62. Merluccius productus (Ayres): 1 egg (?),
1 larva.

Larva - unidentified - melanophores in no under
tail - 1

Unidentified eggs:

Small, with numerous oil globules and
cloudy capsule.

Haul 3

11-12: XII: 53 H53-223

Trawl #2 10' Beam

2045 start down Course 330°

2103 down 1500 M wire out.

X 60° Depth of water 650 fms

2120 X 50° Screw turns 45

2200 X 50° Trawl Depth = 530 fms

2230 Bridge reports average speed

over the ground to be 2 knots

2230 X 50°

2300 X 50° Depth of water 640 fms

2330 X 50° " " 630 "

2400 X 50° Depth of water 625 "

0030 X 50° " " " 620 "

0100 X 50° " " " 610 "

0103 start up, screw turns 35

0140 net out

3 squid for 510
misc. msh. for lab. for rel. for

2 hyperids for UCLA via P. vanover

2 flatworms for UCLA - long misc. Coelenterata for H. vanover?

Pyrosoma, Clione for
Cochran, M. d. d.

Other Invertebrates

Haul 4 Dredge Same time

H53-224

Medicines 3 1 y. + 1 he. m.

32° 33' 20" N 117° 34' 45" W

32° 44' N TO 117° 40' 30" W

aligning to depth
just 2 ft or so