

State or Country: off central California. Field No. SIO 67-122

County: Map: CS 5502, ed 7, 1963

Locality: W of Cordell Bank, off Pt. Reyes
midpoint: 38°02'N, 123°44'W

Lat. 38°07.2' to 37°58.2'N., Long. 123°(53.5'→36.5')W.

Water: rather coastal in appearance, Am. Velella

Vegetation:

Bottom: very even upslope at start

Cover: Surface Temp.: - °C. connected thermograph

Shore: rocky Current:

Dist. offshore: 28 - 37 naut. mi. Stream width:

Depth of capture: est. to m @ 3500. Depth of water: 1213 - 1883 fath (GDI)

Collected by C.L. Hubbs, R.L. Wisner, R.R. McConnaughey, & party
(incl. 1514 trip), on BIO R/V T. Washington Date: VI:17-18:1967

Method of capture: 10 ft monohy. Isaacs-Kidd midwater trawl, m-net cod-end
Orig. preserv.: 10% buffered formalin Time: 1920-0100 hrs (PST)

MV 67-II-31 Course, 105°T. Speed, 3 knots

Robert L. Wisner in charge of operations

Plan: step down at 15 m/500m between holds at each 500m W/O until 3500 m W/O then hold there for 15 min before returning at rate of 3 m/min.

Material in unusually excellent condition, and in large quantity. FISHES are preserved in 1 3-gal. jar largely filled plus 1 1-qt. jar with an extremely flaccid ceratoid for Rosenblatt's attention.

1 4-oz. jar with 1 larval & 1 juv. Sebastodes for attention of Chen.

INVERTEBRATES: bulk in 1 5-gal. tub can also 1 1-qt. jar of cephalopods (other than Vampyroteuthis).

1 1-gal. jar with a Vampyroteuthis, that was in exceptionally good condition, also 1 5-oz jar of planarians preserved as usual from all washings.

Saul L. Hubbs

MV 62-31 (cont.)

(over)

(cont'd →

The Vampyroteuthis was in almost whole like motion. One rear projection had a terminal cup that reflected light, and looked somewhat eye-like.

25	Benthobella dentata	1(48.3)
65	Chaenophryne ^{melanorhabdus} parvicornis	1(79)
61	Melanostigma pammelas	1(93)
10	Bathophilus flemingi	1(65)
10	Danaphos oculatus	5(21-29)
31	Melamphaes lugubris	2(56-57)
31	Poromitra crassiceps	5(53-138)
31	Scopelogadus mizolepis bispinosus	5(65-79)
25	Hierops crockeri	21(16-36)
25	Hierops thompsoni	2(26-33)
25	Nannobranchium ampanyetus regalis	8(43-170)
25	ampanyetus ritteri	31(24-94)
25	Nannobranchium Parvilux ingens	1(154)
25	Stenobranchius leucopsarus	311(18-80)
25	Tarletonbeania crenularis	10(23-46)
25	Diaphus theta	333(33-61)
10	Chauliodus macouni	5 ²⁷ (43-158.5)
10	Tactostoma macropus	3(128.5-236)
10	Argyropelecus hawaiiensis	6(10.0-16.2)
10	Argyropelecus intermedius	1(140.0)
10	Argyropelecus pacificus	2(16.9-32.3)
10	Sternoptyx diaphana	3(37.2-41.4)
53	Sebastolobus altivelis	4(31.4-46.1)
53	Sebastes jordani	1(57.5)
53	Sebastes melanops	1(42)
10	Cyclothone acclinidens	103(21-51)
10	Cyclothone signata	116(15-31)
10	Cyclothone pseudopallida	3(21-36)
10	Cyclothone atraria	1(39)

continuation

State or Country: Field No. SI067-122
 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:

9 *Bathylagus wesethi* 16 (20 ~~4~~ 50)
 9 *Bathylagus pacificus* 1 (143)
 9 *Bathylagus ochotensis* 6 (19-43)
 9 *Leuroglossus stilbius* 14 (24-86)

MUG7-II

CALIBRATION ON THERMOGRAPHY

AND RECORD OF SAMPLES FOR DR. CHOW

Date, VI: 1967 + TIME (PST)	Sample	Lat., Long.	Reading thermograph	Bucket thermo- meters
Castello VI: 9: 1535 ⁰⁵³⁰	Surface #1	35° 15.5' N., 122° 16.5' W	13.8	14.1
" " 1535	" #2	35° 29.5' N., 122° 37.6' W	13.6	14.2
VI: 10: 1643 ¹⁹⁰⁰	—	—	13.9-	14.2 +
" VI: 10: 1850 ¹⁹⁰⁰	—	—	—	—
Hulk VI: 14 co. 0950	#3	37° 20' N., 123° 42' W	14.0	14.3
" " co. 1000	—	—	11.2	12.1
Castello " 1200	—	—	10.3	11.3
" " 1245	—	—	11.1	12.3
" " 1450	PDT - #4	37° 29' N., 124° 07' W	10.5	11.70
" " 1800	—	—	11.0	12.2
" " 1930	—	—	10.4	11.7
" VI: 16 1000	#5	38° 37.3' N., 124° 22.8' W	10.4	11.4
" VI: 16 2100	#6	—	10.5	11.8
			9.4 10.3	10.3

Depth range on VI: 15: 1967, 0350 → 0450 ~~1967~~
at 37° 16' N., 123° 53' W. by Castello (2000 fath)

Strong wind angle reported by Wimer.
Listed by Castello as 35°

Depth

000	13.00
300	8.50, 8.51
600	7.09, 7.06
900	5.73, 5.75
1200	5.30, 5.30
1500	4.90 ST