

5020
State or Country: off central California Field No. SIO 67-115
County: Map: CS 5402 ed. 9, 1965
Locality: S.W. of Farallon Is., and W. of Pioneer
Seamount, on ocean floor 54'
Lat. 37° (22° 16') N., Long. 123° 45' - 123° 53' W.
Water: seemingly waste; in places very thick with
Vegetation: Valoniopsis etc.

Bottom: very flat and even; obviously soft.
Cover: Surface
Shore: Temp.: 17°C (thermograph)
Current:

Dist. offshore: 56 - 60 naut. mi. Stream width:
Depth of capture: bottom (+ 50m midwater) Depth of water: 1964 - 2077 fath. (G.D.R.)
Collected by SIO exped. on R/V Thomas Washington
Tide: CL Hubbs, R.L. Wisner, R.R. McConnaughey, et al. Date: VI 14-15, 1967
Method of capture: 41' Semiballom. Mammoch. otter trawl
Orig. preserv.: 10% buffered formalin + frozen Time: 1855 - 0224 hrs. PST
MV 67-II-22 Ronald R. McConnaughey 2214 - 2445
in charge
Intended Course 300° T

Essentially reciprocal of MV 67-II-21.
Undertaken to try to get net on bottom.
Finally, a successful deep haul!
seining drag, cable led sharply to starboard.

Wisner's log of operation:

PST
2314 8000 m WO
2327 Ship speed slowed to 1 kt.
2417 Still at 1 kn. (intended), but fluctuating
between 1/2 and 1 kn. Strong rudder
required in effort to hold course.
2420 35° at rudder, but ship falling off course
from 300° to 250° true. Strain gauge
had steadily increased, but without
2445 obvious jerks.
0011 Start winch in @ 25 m/min. Strain
gauge shows quick increase. Trawl
speed over bottom will approximate 1 1/2 kn
if ship speed holds steady (at ca. 1 kn).
0010 marked drop in strain gauge, possibly
indicating lift-off from bottom.
0015 3300 m. still out; to go at 70 m/min.
0145 1200 m WO.
0424 Otter trawl at end; depth 2077 fath.
Gail L. Hubbs

over

MV 67-II-22 (cont.)

much difficulty with Loran during the haul. Position regarded as least unreliable was at 0226 hrs. @ $37^{\circ}16'N$, $123^{\circ}53'W$.

After the trawl, asked for sun toward South
Tarullon Island to get solar fix, then
~~to back~~ to back calculate to check
position.

material & containers

Fishes: 3 5-gal bucket cans

3 plastic bags (frozen)

all Coryphaenoides (C. abyssorum
+ "Chalinurus"). Parasite taken from C. abyssorum

1 2-qt. jar bathypelagic fishes.

INVERTEBRATES:

1 5-gal bucket can, miscellany
(coarser specimens)

1 2-qt. jar - octopus, for demonstration

3 2-gal jars - one for demonstration,
incl. giant pyrosomid.

1 1-gal. jar, for demonstration

1 2-qt. jar frozen, for Wood, bones, clippers, etc.

1 4-lb. jar molluscs, frozen

Some galatheid, etc. taken for eye
study by Elizabeth Kaur (Boden)

Sally Hall.

SI067-115
(MV67-II-22)

Species List

- 62 *Coryphaenoides* ^{leptolepis} ~~serrata~~ 12(282-368)
otoliths removed from 4 spec.
- 62 *Coryphaenoides marshalli* 1(400+)
- 62 *Coryphaenoides* ^{yaquinae} ~~marshalli~~ 1(255+)
2(255+ - 400+) PARATYPES
- ⊗ 62 *Coryphaenoides* ^{gymnotus variabilis} ~~abyssorum~~ 70(270-650)
4 3-gal. jars
- 10 *Tactostoma macropus* 2(134-184.5)
- 10 *Chauliodus macouxi* 3(101.2-121.2)
- 10 *Argyropelecus pacificus* 1(48.9)
- 10 *Sternoptyx diaphana* 1(42.5)
- *25 *Stenobrachius leucopsarus* 4(37-72)
- *25 *Hierops crockeri* 1(33.0)
- 31 *Melamphaes lugubris* 1(77) 4(75-127)
- 31 *Scopeloberyx robustus* 1(59)
- 64 *Microstomus pacificus* (larvae) 2(50-56)
- 31 *Poromitra crassiceps* 3(75-127)

⊗ number changed on 11/21/82. counts of fish indicate there are only 56 *C. abyssorum*, and a total of 70 ind. of all 3 *Coryphaenoides* species at this station. ~~for~~

* discarded