

SI073-230

State & Country: off, México Field No. MV 73-I-3
 County: _____ Map: H0 622 1966 ed.
 Locality: northeastern of Isla María Madre, Islas Tres
Marías, ca. 25 naut. miles.
 Approxim. Lat. 21° 59' N., Long. 106° 20' W.
 Water: ocean
 Vegetation: _____

Bottom: even (apparently) barely touched bottom if at all
 Cover: _____ Temp.: _____
 Shore: _____ Current: _____
 Dist. offshore: appr. 25 naut. miles Stream width: _____
 Depth of capture: apparently mid-water Depth of water: 26-55 fath. (m)
 Collected by C. L. Hubbs & party on S/O R/V Alexander Agassiz
U.S. Cruise CALCOFI 7303-6 Date: III. 30. 1973
 Method of capture: 25' otter trawl
 Orig. preserv.: 10% buffered form Time: overall 1702-1749 hr^{MS}
End of payment to start retrieval 1710-1732

Haul was downwind, 400 m wire out, but strong wind obviously created too much speed, for very few fairly bottom fish were obtained and the only invertebrates were a few shrimp (red-spotted), and the some ~~specimens~~ Synodus specimens were examined with Viniguernia (2) remains and some other pelagic types - obviously taken in quantity off the bottom at significant points.

All fish were preserved, including some with hearts and gills and viscera removed by the parasitologists and Mr. Lee. Fish so used bear tags with individual nos. for checking identifications!

* 2523 very small gobbles with this fish had ~~been~~ likely been in the net from previous haul 73-I-2. S. L. H.

MAY 14 1973, Richard S. Lee reports retaining at UCSB for gill and heart measurements 1 Prionace and 3 specimens of Synodus.

Sand Hubbs
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- | | | |
|----|--|------------|
| 64 | <i>Symphurus callopterus</i> | 1(90) |
| 60 | <i>Porichthys ehippiatus</i>
paratype | 1(74) |
| 10 | <i>Vinciguerrina lucetia</i> | 13(39-45) |
| 25 | <i>Synodus evermanni</i>
(from MV 73-I-7) | 92(94-140) |

Gift to Instituto Nacional de Pesca,
Mexico. 18 Dec 1973
25 *Synodus evermanni* 19(92-128)

State & Country: off _____, México Field No. MV 73-I-4
County: _____ Map: HO 622, 1966
Locality: northerly off Isla María Madre, Islas Tres Marias
_____ appx. Lat. 22° 07' N., Long. 106° 20' 0" W.
Water: ocean
Vegetation: _____
Bottom: on flat top of undersea knoll
Cover: _____ Temp.: _____
Shore: _____ Current: _____
Dist. offshore: appx. _____ naut. mi. Stream width: _____
Depth of capture: set on bottom Depth of water: 100 fathoms even (MJDOR)
Collected by Carl L. Hubbs & party on S/R/V Alexander Agassiz,
Tide on cruise CalCOFI 7303-G Date: III: 30-31: 1973
Method of capture: free-vehicle set-line and trap combination *
Orig. preserv.: _____ Time: 2033 - [ilust] hrs. MST

* set-line vertical, 25 hooks set 1 m. apart, baited with frozen squid; 2 plastic minnow traps, in tandem, baited with Pacific mackerel.
Set with radio mast and red flag.

Note on series of 3 sets
Attempted sets at 100, 300, 450, & 600 fathoms, but either we or charts were out of position of soundings and/or contours. Operation in charge of Ronald R. McConnaughey.

All 3 failed to appear, though radio signals should have been audible for 20 miles. Prolonged searching throughout day & night of III: 31 and much of IV: 1 failed utterly. Long-lines working area might have plucked them though much more likely the intense oxygen minimum was responsible.

Carl L. Hubbs

State & Country: off Mexico Field No. MV 73-I-5
County: _____ Map: H0622, 1966 ed.
Locality: ocean northerly off Isla Maria Madre, Islas Tres
Marias
Approx. Lat. 21° 55.0' N, Long. 106° 24.5' W.
Water: Ocean
Vegetation: _____
Bottom: irregular topography
Cover: _____ Temp.: _____
Shore: _____ Current: _____
Dist. offshore: approx. naut. mi. Stream width: _____
Depth of capture: set on bottom Depth of water: 305 fath. (m)
Collected by Carl H. Hubbs & party on SIO R/V Alexander Agassiz
Tide: cruise CalCOFI 7303-G Date: III: 30-31: 1973
Method of capture: free-vehicle set-line & trap combination*
Orig. preserv.: _____ Time: 2210 - [lost] hrs MST

* set-line vertical, 25 hooks set 1 m. apart, baited with frozen squid; McConaughy 3-chambered trap, baited with Pacific mackerel. Set with radio mast and red flag. Operation in charge of Ronald R. McConaughy. — See note under MV 73-I-4. Carl H. Hubbs

State & Country: off Mexico Field No. MV 73-I-6
County: Map: HO 622 1966 ed.
Locality: northerly off Isla Maria Madre, Islas Tres
Marlas
Appr. Lat. 21° 50.0' N., Long. 106° 29.0' W.
Water: ocean
Vegetation:
Bottom: irregular topography
Cover: Temp:
Shore: Current:
Dist. offshore: approx. naut. mi. Stream width:
Depth of capture: set on bottom Depth of water: 390 fath. (m.)
Collected by Carl H. Hubbs & party on SIO R/V Alexander Agassiz
Tide: on cruise CALCOFI 7303 G Date: III: 30-31: 1973
Method of capture: free-vehicle set-line & trap combination *
Orig. preserv.: Time: 2307- [lost] hrs. MST

* Set-line vertical, 50 hooks set 1 m. apart, baited
with frozen squid; McConaughy 3-chambered
trap, baited with Pacific mackerel. Set with
radio mast and red flag. See note under
MV 73-I-4. Carl H. Hubbs

State & Country: off México Field No. MV 73-17
County: _____ Map: HO 622, 1966 ed.
Locality: northeasterly from Isla María Madre (of Islas Tres Marias), 15-17 mi. off Isla Isabela.
Lat. 21° (57.1 → 55.5) N, Long. 106° (09.9-12.9) W.
Water: _____
Vegetation: _____
Bottom: flat
Cover: _____ Temp.: _____
Shore: _____ Current: _____
Dist. offshore: 15-17 nautical miles Stream width: 25-30 fath. Overall
Depth of capture: bottom (attempted) Depth of water: 29-30 "pay out to"
Collected by Carl L. Hubbs & party on SIO R/V Alexander Agassiz, on
Ride cruise CalCOFI 7303 G Date: III: 31: 1973
Method of capture: 25-ft. otter trawl, 250 m wire out
Orig. preserv.: _____ (Time: 1636-1712 hrs. overall)
1646-1706 hrs. holding)

For some reason net obviously failed to reach bottom;
net contained only remnants from yesterday's catch
plus a few scalps? - Too much speed for scope?

25 Synodus evermanni 92(74-140) Carl L. Hubbs

add to SIO 73-230

Carl L. Hubbs