

(Sorted) V: 28: 1948

Sta. No. H48-87

Locality: Baja Calif.: Laguna Coyote, on SW shore, abt $\frac{1}{2}$ mi. from entrance, NE of Punta Abreojos 8.7 sea miles.

Lat. 26° 48' 22" N.; Long. 113° 27' 30" W. (USC & GS chart 1310, 1939)

Water: clear, salt

Vegetation: spotty growths of green and brown algae, mostly clear

Bottom: more or less muddy sand with some shells mostly in patches, generally firm

Shore: tidal flats with mangroves

Distance from shore: to 20 ft. and a few channels to 50'

Depth of capture:

Depth of water: varied to 3', generally less

Method of capture: 17' goby seine

Collected by: C. L. + L. C. + H. + G. A. Bartholomew, Jr.

Date: II: 14: 1948

Orig. preserv.: 10% form + borax

Time: 1430 - 1630

Selected collection. A sample of algae was preserved in 5% form. and a sample of the invertebrates in alcohol.

6. Rhinobatos ~~franklinii~~ : 1 small ♂ saved, several others seined and seen. These were all up a shallow slough. all bl. gr.

~~Urolophus~~ Urolophus halleri very numerous, leaving perfect molds in shallow bottom particularly up a shallow slough. Several saved to represent different color patterns, since more than one species seemed possibly represented. All adults 4(154-207)

computer

H48-87

-87A

} combo
as
one

143 spec.
from H48-87, 87A
16-54 mm.

27. Fundulus paripinnis series(?) sp. - bl. gr. in shallow slough. 143(16-54)

40. Mugil cephalus (?): bl. gr. - ad. seen pumping.

40. Atherinops affinis ^{californicus} series (13-22) : post larvae
and juv. abundant at edge of main
channels and in sloughs. Rather
large sample saved
Atherinops affinis : littoralis x magdalenae
2 yg.

51A Squilla nigricans : a few small juv. (10)
from about stones in moderate current.
10 (23.5-30)

To. A. Reckert UCLA. March 1949.

57. Syngnathus auliscus : 1 lg. yg. from
[+ 5 spec. from H48-87A]
shallow slough. 6 (54-76)

59. Gillichthys mirabilis : moderate number
saved. ~~young~~ 20 yg.

SIOH48-87+ -87A → 62 (10.5-36)

59B Dipnnus gilberti common. Series 43
yg. - ad. saved. 1 ad. ♂ dug out of
~~small~~ hole of small diam.

59A Clevelandia ios : Apparently less
common than Dipnnus. ¹⁸ series of post
larvae to ad. saved.

Giretula ~~sp.~~ y-canda : 8 yg. ad.

Paralichthys californicus : a few yg. (9)
all saved. 8 TL., 2 R.

Hypsozsetta guttulata : ~~series~~ series (61)
of yg. and 1 sm. ad., all saved. 6 TL., 2 R.

(Indexed as
H g guttulata)

Giretula y-canda, 11 catalogued by
Horns from 87 and 87A, 12-39 mm.

one fish
dissected for
6 yg
from H48-87A
Counts
made by
F.H.C. Taylor

(sorted)

V. 29: 1948

H48-87A

Collection repeated but confined to shallow slough and immediately adjacent shallows. II: 15: 1948 ~~14-5-3~~

1600 - 1730.

A very few invertebrates saved.

6. Rhinobatos ——— : a few half grown seen. None saved.

Urobatis

: very numerous,

none saved.

Along the shore of the main channel, just outside mangroves, ab. 8 ft. from shore in water about 12" deep, 3 plain-colored round stingrays were observed for several minutes in mating behavior. ~~The~~ A medium sized ♀ was lying on the bottom, back down, pointing outward and slightly down stream, with disc slightly cupped. The ♂, of about the same size lay on her, belly down and nearly parallel. His tail was curled upward, though not so strongly as when tail is being used as a weapon.

His left clasper, held at approximately ~~at~~ right angles to the axis was inserted in the orifice of the ♀. A third ray, that seemed to be a ♀, lay on top of the pair overlapping the front $\frac{2}{3}$ of their bodies. This fish lay about perpendicular to the shore with the head inward.

Put with
H48-87

after several minutes of observation, the copulating pair wriggled a bit, whereupon the overlying fish swam off into deep water. The ♂ then struggled loose and swam off slowly. The ♀ then turned over and lay near the mating scene for a few moments before taking off.

Other notes on round sting rays.

(Feb. 6) During the shore day seining at Turtle Bay, the round sting rays were common and particularly abundant about the rotting remains of a few fish heads. One stung me in the ankle. Had tennis shoes on and did not feel the ray under my feet. The impact of the spine was only moderately painful. Within about a min. the pain was moderately severe and continued from the time of the sting about mid afternoon through the evening and moderately so the next day until about 1700 when it rather suddenly completely disappeared. During the evening when the pain was severe, its ankle was considerably swollen, the ~~veins~~ veins enlarged and the wound somewhat pussy.

During the night of II:14-15 there was rather severe itching in the same ankle and this continued for some time.

The wound was not treated in any way.

{ *Quietula y-cauda*: 4 ~~ad~~ hl. gn. -ad } see
 59A *Clevelandia ios* 32 yg. -ad. SIOH
 59B *Sleypnus gilberti* 19 yg. -ad. 48-87

59. numerous gobies of same species
 as on II: 144 secured but only a
 few saved. Combined with H48-87

64. *Paralichthys californicus*: a number
 of yg., all saved. 12
 10 L.; 2 R.

Hypsopsetta guttulate: numerous, 88
 yg. all saved. ~~88~~

(Indexed as *H. g. guttulate*)