

State or County: California

Field No. H.49-59

County: San Diego

Map: USC & GS Chart 5106, 1917

Locality: Mission Bay, near mouth on Pt Medanos, bay side, E. of road and N. of bridge

Lat. 32° 45.71-45.72' N, Long. 117° 14.92' W

Water: clear, salt

Vegetation: beds of *Zostera* with large terrigenous areas. Some stranded *Maerystis*

Bottom: largely stony and sandy; locally boulders

Cover: generally good Temp.: mod.

Shore: wide tidal flat Current: generally little

Dist. offshore: to 15 ft. Stream width:

Depth of capture: Depth of water: to 3 ft.

Collected by Carl H. Hubbs & party

Tide: -1.5 (S.D.) outgoing + incoming. Date: V:14:1949

Method of capture: goby seine and 6' C.S.

Orig. preserv.: 10% form + borax Time: 5:30 - 7:30 A.M.

Conditions have not deteriorated here.

Party of Joshua L. Bailey, Jr., Farrar, Morrison & Hubbs found invertebrates in good condition. Found 15-20 of *Cypraea spadicea*. Burrowing *Ammonia* about several octopods found, etc., etc. Patches of eel-grass (*Zostera*) possibly a little reduced over 2 years ago. Man rock has been put along beach to N & fauna has spread. Habitat seems to be in no vital danger, though new harbor channel will go through here. It would be desirable to try to rebuild this long-favored collecting spot elsewhere.

1 Crangon saved for Martin Johnson.

Partial (selected) collection

5. *Heterodontus francisci*: 2 about 12" long picked up in *Zostera* about 12" deep by Bailey. To SIO Aquarium.

27. *Fundulus* sp. *parriginis*: sev. ads, discarded along open shore

40 *Atherinopsis californensis*: 1 yg. (18 mm) yg. *Atherinopsis affinis* (*littoralis*?) : 1 yg. (16 mm) yg. E.O. mm chel. Some disc.

(over)

H 49-59 (over)

47. Cymatogaster aggregata: newly born to
fled-sized ads. Discarded.

B Brachyistius frenatus*: ^(36 mm) 1 yg. } 500 yg.
warm yellow-brown; posteriorly with sponged
of silver blue and brownish orange } fish
A. Micrometrus minimus: 2 yg. 33-36 mm. } coll.

55. Leptocottus armatus australis:
sev. hl. gr. I brought to lab.
counted & discarded. Open bottom

Clinocottus analis saburrae: 1 hl. gr., 1 ad

44-124 mm.

These specimens confirm the distinctness
of saburrae. The head and especially the
eye are smaller. The fins seem to be
a little higher and definitely softer and
with thinner rays. ~~In the~~ The lower pectoral
rays are much less enlarged, especially
in the adult. Both on the fins and
body the skin is much thinner. For
this reason the prickles on the upper, middle
part of the body in the adult are much more
conspicuous and much rougher to the touch.
The cirri on the head are thinner than in
C. a. australis. The color of the adult is
rather rich. The body is rather heavily
speckled with small, round, coppery
pink flecks. There is considerable coralline
color on saddle at upper base of C. The
side of the face is very finely spotted with
reddish and the branchiostegal region
is banded by pinkish. The pectoral fin
is rather finely banded with intensifications
of the bands to form light-centered black
green spots on the rays. There are several
blood red wedges at the margin of the D₂
From about boulders on steep shore
membranes
where found in earlier collections

* From mixed Macrocypris and Zostera

57. Syngnathus griseo-lineatus ~~leptorhynchus~~
7 hl. gr. - ad. In Zostera 7(122-198)

Syngnathus californensis: 3 hl. gr. - ad.
In Zostera

59. Clevelandia ios: 2 yg., 1 ad. saved
On sandy bottom

61. Paraclinus: 1 ad. ♀

In life plain brown with ocellus difficult to see. In formaldehyde lightened and brightened to warm pink on body and D. fin, and rather bright orange-pink at base of pectoral on each side. Ocellus very distinct, rather small. C. brown in a basal band, then clear with a fine dark edge and main part of fin finely and weakly banded on rays. A. with blackish streaks on basal half anteriorly and pink in basal blotches posteriorly.

On comparison with P. integrus they seem to be very close, and probably a very ecotype. Seems to be same form as collected by Clark Hubbs at Bay Bahia San Clemente.

From stony shoal, with heavy growth of invertebrates

Heterostichus rostratus: many larvae (27-51)
to adult. 8 postlarvae to juv. saved
for yg. fish collection at S. J. O.

In Zostera

Hypsoblennius ~~longus~~ herkimsi 2(39-41)
2 hl. gr., from
somewhat stony bottom.

61. Hypsoblemmis gentilisa : 1 ad. ♀, from
about boulders 1(73)

64. Paralichthys californicus : 1 yr.?,
Discarded. R. (on sheet)
Sandy bottom about Zostera

Citharichthys s. stigmaceus : 3 hb. yr. - ad.
from sandy bottom near Zostera
and also near boulders. 3(66-82)

Hypsosetta g. guttulata : 1 hb. yr.,
discarded. R. (in sheet).