

Copied for Calif. Acad.
I: 16:1945

Sta. No. 444-38 Orig. No.

Locality: California: Cabrillo Beach, San Pedro, near N. end of Breakwater Approx. Lat. 33° 43' N, Long. 118° 17' W (in 1945 for details)
Water: salt, very dirty to moderately clear
Vegetation: patches of eel grass Zostera in lagoon; mud flats on
Bottom: soft mud to broken shells + fine sand (breakwater)
Shore: beach - mud to shells to sand and Current: slight waves
(stronger outside)
Distance from shore: to 50 ft. under breakwater Tide: -0.6' at 2:32 P.M.
Depth of capture: Depth of water: to 4 ft.
Method of capture: 25' Baird seine + dip-nets
Collected by: C.L. & L.C. Hubbs & E.M. Kamp Date: XI: 26: 1944
Orig. preserv.: 10% form. + borax Time: 1-4 P.M.

All from Outer Harbor except
1 Crossochia kuelzi + a few
large ones of Micrometrus minimus
All saved except a few Atherines.

6. Actinotus californicus, 1 half grown 540 mm. T.L.
along breakwater To Calif. Acad. 11488
27. Fundulus p. parvipinnis, 1 immature ♂ 50 mm. SL.
from muddy bottom nearly 1/2 mi. in from break-
water. To Calif. Acad. 11474
D. 14; A. 12; C. 21 Copied for ~~Hubbs~~ 27 file
40. Atherinops c. californiensis, 38 spec.
Half-grown, probably from along breakwater.
To Calif. Acad. Sci. 11477 see end of list for ~~specimens~~ St. h.
- Atherinops affinis littoralis, a few half grown
(and egg?) ^{probably} from along breakwater
- disc) Atherinops affinis cedrosensis, large series
partly from open sand and from eel grass
(out)

but mostly from small compact mid water schools along the breakwater. Quite a few were seen to be diseased.

- 11476
46. Leuresthes tenuis ¹⁷ Hooper. (See end of list for counts) St. L.
Colif. and from along breakwater. 11481
47. Crossochir koolzi, 1 adult ♂ 127 mm.

11473
Fin rays rosy becoming deeper and more orange on the pelvic; the pectoral has only a trace of rose except on the pair of basal bars separated by greenish. The sides are bright silvery with the bars made up of a mixture of olive and bright coppery orange becoming pink on the breast. There is considerable deep-lying greenish about the face and splashes of rose.

On open sand bottom

D. X, i, 25; A. III, i, 28 (12th ray thickened); C. 14; P₁ I, 5-I, 5
(copied for group 47)

- 11489
48. Cymatogaster aggregatus, 1 adult ♀ 105 mm.
from along breakwater. D. X, ii, 18; A. III, iv, 20.
Colif. and. 11489
P₁ ii, 18-ii, 18; P₂ I, 5-I, 5; C. 14. (copied for group 47)

- 11486
49. Micrometrus minimus, 28 adult ♂s + ♀s
from open beach, from eel grass and from along breakwater. Counts in files (group 47)

50. Girella nigricans, 1 large yg. 65 mm.
from along breakwater. D. XIV, 13 (none branched); A. III, i, 10; C. 15; P₂ I, 5-I, 5
Colif. and. 11454
(copied for group 51 file)

51. Syngnathus californiensis (barbarae), 10 half gr.-adult.
from eel grass patches. Varying from greenish through browns to purplish red.
Saved at S.I.O.

12(86-302)

52. Syngnathus californiensis (californiensis) (11)
2 half grown; 1 greenish yellow from eel grass; 1 blackish-purple from open bottom of dark color.

Purplish specimen has rings $20 + 49 = 69$
and D. 43, total = 112.

Yellowish spec. has D. 40 and rings
 $20 + 48 = 68$, total = 108.
(copied for group 55)

60. Parichthys notatus, 1 yg. ^{44 mm.} from eel grass
city area. D II, 33; A. 32; P, 19-19; P₂ I, 3-I, 31 ~~group 60.~~

61. Heterostichus rostratus ~~general~~ ^{copied for group 60.} ~~general~~ ^{specimens}
color rather bright green to brownish
green with bluish streak from
Dorsal to mouth and the usual bright
silver band, with a greenish to yellowish
area along the back with ~~dark~~ ^{dark}
~~saddles in one~~ gale to dark
saddles coupled with pale crossbars
in two; the narrower light streaks
above and below the main one
vary from weak to absent. These
three were taken in eel grass area

Heterostichus rostratus intermedius (?)
Two slender ones of kelp brown,
the smaller a little more greenish
with an interrupted silvery band.
One of these was taken in the
eel grass area; the other in kelp
along break water. One is dark, one is light dorsal
^{saddles.}

Heterostichus rostratus rostratus, 2 large ygs.
2 large ygs of uniform kelp brown color
and deep body taken from near

third crossbar (the 3rd throat ^{mark}) is dusky red. The pale space before and behind this reddish crossbar is watery yellowish.

64. Paralichthys californicus: 16 yg to half grown from open beach, eel grass and along breakwater, 9 sinistral, 7 dextral. In addition checked one dextral spec, also one dextral Xystreureys in Cabrillo Beach Museum and one sinistral Pandy Paralichthys in Anita Hauglert's collection. (64-306mm.)

To Calif. Acad. 11468 (Counts in group 64 file)

Citharichthys stigmaeus 7 spec. all sinistral 39-76 mm., from ^{open} sand bottom. (Counts in group 64 file)

To Calif. Acad. 11487

Pleuronichthys ~~rotterii~~ ^{coenosus} 3 half grown ^{90-120mm.} to adult, from sand bottom and along breakwater. All have a large and faint ocellus near middle of caudal. To Calif. Acad. 11483 (Counts in Group 64 file)

Collecting spot	Lat.	Long.
For <u>Fundulus</u>	33° 42.95' N	118° 17.06' W.
Wreck (<u>Hypsoblennius</u>)	33° 42.90' N	118° 16.93' W
Eel grass area	33° 42.72' N	118° 16.98' W
Float (<u>Hypsoblennius</u>)	33° 42.66' N	118° 16.95' W
Along breakwater ^{between} sides	33° 42.59' N	118° 16.82' W
Beach outside	33° 42.52' N	118° 17.03' W

From U.S. C. & G.S. Chart 5-143 (1935)
Open shore collections taken on either side of eel grass.

Utherinopsis c. californiensis

St. L. 27, 28, 30, 31, 32, 35(2), 36, 37(2), 39, 40, 45(2), 47, 59
64, 70, 74, 80, 81(3), 83, 84(4), 85, 86, 87, 88(2), 90(2)
92, 99

Leuresthes tenuis: St. L. 42, 49, 57, 59(2),
72(2), 78, 80, 82, 90, 93, 94, 95, 96(3), 99

Copy of above data to Calif. St. Fish. Lab.

Utherinopsis californiensis
for your book, all ground and
along beach water, 2 minutes, 100
to collect. Checked one hundred
also one hundred *Utherinopsis*
collected from specimens and one
specimen from *Utherinopsis* in
Mangrove collection (04-5000-)
to Calif. St. Fish. Lab.
Utherinopsis californiensis
collected 39-50 min, from
beach water. (Contn in sample #12)
to Calif. St. Fish. Lab. 11/8/81
Utherinopsis californiensis
to collect from beach water and
along beach water. All time a large
and faint ocellus seen with
Candace. To Calif. St. Fish. Lab.
to collect from
to for *Utherinopsis*
to collect from (Hypoglysson)
to green area
to for (Hypoglysson) 33° 42' N 118° 15' W
along beach water, 33° 42' N 118° 15' W
Beach water 33° 42' N 118° 15' W
from 118° 15' W 33° 42' N (118°)