

Copied for CAS
✓ 11.9.1946

Sta. No. H45-128

Locality: California: Newport Bay near entrance

Lat. ^{35° 57' 40"} 33° 36' 02" N.; Long. 117° 52' 40" W. (USC & GS chart 5108, 1940.)

Water: salt, rather clear

Vegetation: heavy stand of eel grass with bare spots in between

Bottom: firm to soft sand, a little mud Temp.:

Shore: narrow beach

Current: very slight

Distance from shore: to 100 yds.

Tide: -0.1 at 6 A.M.

Depth of capture: 25' 1/4" bag seine

Depth of water: to 5 ft.

Method of capture: most of hauls poured into boat

Collected by: Carl L. Hubbs & party

Date: VIII.10.1945

Orig. preserv.: 10% formalin

Time: 6:00 - 8:00 A.M.

All saved except as noted:

35. Paralabrax clathratus, 3 yearlings 152, 156, 146 mm
CAS. 19385

40. Atherinops affinis ^{subspecies (?)}, 32 very yg to adult (disc.)
SDO One with P₂ reduced + conjoined. ^{Entered as integ.}

46. Scirphus politus (See note, next page)
SDO 30 yg. to half-grown
CAS 23-97 mm.

47. Cymatogaster aggregatus, mostly discarded,
SDO 1 saved 67 mm.
CAS

Embiotica jacksoni, 32 large yg? to adult.
SDO (5 found here July 8, 1946) 5(77-98)
^{labeled separately}
^{others sent with H45-127}

* Rhacochilus toxotes, 3 yg.

CAS 19422 Phanerodon furcatus: 3 yg. color note on Rhacochilus opolis

* CAS 19421 Damalichthys vacca, 2 yg.

cont(over)

* Color note on Rhacochilus and Damalichthys: The yg are very much alike but in Rhacochilus the vertical dark bar is entirely or almost entirely obsolete and the pelvic fin lacks the blackish tip.

Color note cont.

The blackish mark on the anal is very small. The caudal has a broad dusky posterior border which is not extended to the base on the dorsal and ventral margins. The lips have less orange; the pelvics and front of the anal are a clear yellow. On the lower sides the pinkish stripes follow the scale centers rather than lying between the scale rows. The opercular membrane is orange-amber. There is considerable watery pink on the base of the caudal and dorsal base.

Hyperprosopon argenteum, 17, 65-83 mm.
CAS 19387

Micrometrus minimus, 62 small to
CAS large adults. 37-126 mm.
19426

50. Oxyulis californica, 1 half grown, 125 mm
CAS 19388

51. Girella nigricans, several large ygs to
CAS. Half grown discarded; 2 saved.
19382 92-145 mm.

55. Scorpaenichthys marmoratus, 1 large ygs.
520 australis 100 mm.

520 Leptocottus armatus, 7, 81-149 mm

57. Syngnathus g. barbarae, 7 ygs to ad,
520 including ♂♂ with embryos. 2 ygs, 9 ad.
53-253 mm. 2 ygs found when sorted

Syngnathus c. californiensis, 1 large ygs.
520 (~~not found in sorting~~) 1 (109)

sinus
Sp.

61. Gibbonsia ~~elegans~~, 6 ygs. to large adult
S90

Heterostichus rostratus, 51 ygs. to adult.
CAS 19418 42-100 mm.

64. Paralichthys californicus, 1 ygs. (67)

S90
Citharichthys stigmaeus, 1 half grown,
S90 (40)

Atherinops affinis again seem to be represented here by a population intermediate between littoralis and californicus. It is thought that the dredging of the bay, particularly of the bay mouth, may have opened the region to incursions of the kelp form so that hybridization may have resulted to an extent the extent of producing an integrade population. [Check collection from up North Arm, also collections if any of prior years.] On walking to tip of East Jetty I saw a succession of clusters to small schools of Atherinops close to rock & kelp (mostly Egregia, some Macrocystis) in mid depth where water was 10-25 ft. deep. Here conditions were intermediate.