

Locality: California: reef just S. of Bird Rock,
San Diego (between La Jolla and Pacific Beach)
Lat. $32^{\circ} 48.7'$; Long. $117^{\circ} 16.2' W$ (U.S.C. & G.S. 5101, 1933)
Water: clear, salt
Vegetation: much brown & coralline algae & much *Phylloporia*
Bottom: mostly rock, some stones & sand Temp.: 70s and
Shore: wide reef to cliff Current: open flats
Distance from shore: on reef & edge Tide: -0.9 ft.
Depth of capture: Depth of water: to 2 ft.
Method of capture: doris and rot and dip nets
Collected by: Paul L. & Laura C. Hubbs Date: XI: 1: 1944
Orig. preserv.: 10% form. Time: 4:30-6:30 PM

Entire collection preserved, except that
all gillnets were discarded

40. Atherinops affinis : Series

discarded of yg. dip-netted from open water of
reef top where thick, the fish often broke
the surface in wisps. When frightened
they swam into narrow passages in the
vegetation but did not hide deeply.
Retained at Scripps Inst.

47. Embiotoca jacksoni: 2 ad. gr., 88-96 mm.
Smaller with plain colored fins, larger with
inner part of pelvic and anal streaks
as A. bright orange red.
D. X, 21 A. III, 25 Larger specimen
X, 19 III, 25 Smaller specimen

Micrometrus minimus: 3 ad. ♂'s, 47-70 mm,
and 1 ad. ♀, 96 mm.

♂ D. VIII, 15; A. III, 21
IX, 14; III, 21
IX, 13; III, 21
♀ X, 14; III, 17

Counts transferred
to Group 47 file

50. Salichthys semicinctus: 1 ad. ♀, 120 mm.
D. IX, 12; A. III, 12

Copied for Group 50

50 (cont.) Oryzopsis californica: 1 lg. yg. ~~testes~~ 46 mm.

11357

D. IX, 13 A. III, 13

copied to Group 55 file

51. Sirella nigricans: not common, a number caught and discarded. Commoner in higher pools.

Artedius

55. Paratrypa notospilotus: 1 lb. gr., 38

11358 D. IX, 14; A. ~~III~~ 10; P. 10-16; P₂ I, 3-I, 3

copied to Group 55 file Color notes taken in form. follow.

in Diatrichus Snyderi: 1 subad. ♀, 35 mm.

11359 D. VIII, 17; A. 13; P. 14-14; P₂ I, 3-I, 3

Sirella rubellio: 7 ad. ♂'s; 6 ad. ♀'s. 36-47 mm.

11360

	D.	A.	P ₁	P ₂
♂'s	VIII, 14	11	14-14	I, 3-I, 3
	VIII, 14	11	14-14	I, 3-I, 3
	VIII, 13	11	14-14	I, 3-I, 3
	VIII, 13	10	15-14	I, 3-I, 3
	VIII, 14	10	14-14	I, 3-I, 3
	VIII, 14	10	14-14	I, 3-I, 3
	VIII, 13	10	14-14	I, 3-I, 3
♀'s	VIII, 14	10	13-14*	I, 3-I, 3
	VIII, 14	11	14-14	I, 3-I, 3
	IX, 14	10	14-14	I, 3-I, 3
	VIII, 14	11	13-13	I, 3-I, 3
	VIII, 14	11	14-14	I, 3-I, 3
	VIII, 13	10	14-14	I, 3-I, 3

* lower ray smaller than pecten

* lower ray smaller than pecten

Chirostus anolis australis: 15 ad., 100♂s & 5♀s
76-109 mm.

	D.	A.	P ₁	P ₂
♂'s	IX, 15	12	15-15	I, 3-I, 3
	IX, 16	13	15-15	I, 3-I, 3
11361	IX, 16	13	15-15	I, 3-I, 3
	IX, 16	12	15-15	I, 3-I, 3
	IX, 16	13	15-15	I, 3-I, 3
	IX, 16	12	15-15	I, 3-I, 3
	IX, 16	13	15-14	I, 3-I, 3
	IX, 16	13	15-15	I, 3-I, 3
♀'s	XI, 15	12	15-15	I, 3-I, 3
	IX, 16	12	15-15	I, 3-I, 3

* lower ray slightly shorter than pecten

Counts copied for Group 55 file

† 4th spine with large flag, rather than in 3rd as in other specimens with large flag

Locality: _____
 Water: _____
 Vegetation: _____
 Bottom: _____ Temp.: _____
 Shore: _____ Current: _____
 Distance from shore: _____ Tide: _____
 Depth of capture: _____ Depth of water: _____
 Method of capture: _____
 Collected by: _____ Date: _____
 Orig. preserv.: _____ Time: _____

<u>Chirocentrus</u>	<u>analis</u>	<u>australis</u>	(con.)	
♂	D.	A	P ₁	P ₂
IX, 15	13	15-15	I, 3-I, 3	
IX, 15	12	15-15	I, 3-I, 3	
IX, 16	12	15-15	I, 3-I, 3	
IX, 16	12	15-15	I, 3-I, 3	
IX, 16	13	15-15	I, 3-I, 3	

Note that
 only these few
 large
Chirocentrus
 were taken

57. Syngnathus arcatus: 5 ad., incl. 3 ♂'s with empty pouches, 84-92 mm. One light olive; one color of coralline algae; 2 very dark olive, one with light cross bands; one almost black with light bands. One with coralline color with light bands on tail.
60. Rhinicola eigenmanni: 5 ad., 16-23 mm. 4 spec. in green phase, with reddish lateral streak, narrow and dark in ~~the~~ throat, broad and silvery in vent. ~~16-23 mm.~~ One in plain greenish brown phase.
61. Parachanna integriginnis: 1 yg., 23 mm., and 45 bl. gr. ad., 37-57 mm. Body color varying from red to black, sometimes with orange to salmon blotches on side. Some with red much most intense on D. base and D. fin. All with basal part of pectoral dull to bright red. All but one of bl. gr. to adult with a single ocellus on D. One large ad. with two ocellus.

Heterostichus rostratus: 1 ad. from flat top

Sibbonia elegans elegans; 103 lg yg. - ad.,

11365- 34 mm. to 103 mm.

Copied for Group 61 file
ia elegans elegans; 103 lg yg. - ad.,
 mm. to 103 mm.

Color Description of half-grown formalin specimen
of Parastrolytes notospilotus, taken Nov. 4, 1944, by
Carl L. Hubbs.

Anterior parts blackish back to oblique band running downward and forward from posterior part of D. base; this band is rather narrow and blackish olive like the more posterior bands on the body. It is hardly distinguishable from the generally dark anterior parts, though the region around the front of the D. fin is more slatey. On the cheeks and snout the head becomes a lighter olive. There is a trace of pink in the light markings, most evident in the saddle below end of second D., but the color is not intense here. The edges of the light bands are paler, almost silvery cream on the posterior saddle. Below the lateral line there is a band of olive with whitish spots containing silvery blue reflections. The lower part of the head is translucent with much mottling of purplish. Between the pectoral fins and the anus there is considerable silvery pigment with a trace of brassy next the olive sides. The lower surfaces posteriorly are translucent grayish.

The first D. fin has a very characteristic chalky white posterior edge, occupying the membrane behind last spine and a streak above. The fleshy tips of the first 2 spines are also white. The median spines have a few broad dashes of orange-brown with light metallic intervals. The second D. is banded with orange-brown and yellow-amber, chiefly on the rays.

The anal fin is whitish with a little orange-brown on the 7th ray and a trace of dark. The C. is amber and brown, with a few short whitish dashes and a whitish posterior edge. The pectorals have a large brownish-green mark on the base and beyond this, above middle of fin, a large whitish blotch, with irregular wavy bars grading from bright pink forward to olive posteriorly. The lower edge of the fin is largely whitish; the remainder is irregularly barred with deep olive and translucent gray with a trace of orange in the light areas near tip of fin.