

State or Country: California

Field No. 51054-191

County:

Map: U.S. & G.S. 5116, 1948

Locality: just So. of Bat Rock, San Miguel I.  
Cuyler Harbor

Lat.  $34^{\circ} 03' 33''$  N., Long.  $120^{\circ} 21' 16''$  W.

Water: fairly clear, salt

Vegetation: red algae, especially Gigartina, corallines.

Bottom: sand, in between rocks

Cover: rocks, tunnels, caves, crannies Temp: cold  $14.25^{\circ}$  C.

Shore: cliff Current: light sea

Dist. offshore: to 35 yds. Stream width:

Depth of capture: Depth of water: 0 to 35'

Collected by Carl H. Hubbs on board Orca

Tide: Date: IX:17:1954

Method of capture: derrick poisoning by aquanauting

Orig. preserv.: 10% form + borax Time: 0800-1200

Collecting party: Carl H. Hubbs, Conrad Kimbrough,  
J. W. Sefton, Jr., A. B. Rehnitz, Jay Quast,  
Bevly Morgan

Not all of Coryphopterus and Oxylebrinus  
collected. Many yg. of Parichthys notatus  
seen burying into the sand.

1 - 1 qt. jar of algae.  
Octopus preserved with fish.  
1 small jar of misc. probably has some larval fish.  
5 - 1 gal jars; 6 - 2 qt. jars; 3 - 5 gal cans.

Oxylebrinus pictus to Jay Quast at UCLA

Ernogrammus <sup>walkeri</sup> to Boyd Walker at UCLA.  
PARATYPES 52 (78-143)

- preserved in EtOH, cresyl phosphate (sagittally split)  
Small jar of samples of larvae cleared

5. Squatina californica: one observed by Rehnitz



47. Brachyistius frenatus : 1 ad. = 75 mm

Taeniotoca lateralis : 8 lg. yg. - sub. ad. (3: 72-83 mm)

Embiotoca jacksoni 1: hlf. yr. = 69 mm

50. Oxygulis californica : 3 yg. 29-34 mm.

Aspflecksig  
25 July 1957

51. Sciaenops ocellatus : 7 yg., mostly in channel  
and pool behind the rocks. 38.5-92 mm

53. Sebastes serranoides : 14 yg.

13 (63.9-102.4) R.J.K. Feb '59

Sebastes serripinnatus : 1 ad in large tank, had  
el. yr. Sebastes in stomach

1 (248) R.J.K. Feb '59

Sebastes mystinus : 93 yg. - ad. 92 of ad.  
in large tank

94 (67.5-125) R.J.K. Feb '59

Sebastes melanops : 20 yg. - ad. 2 of ad. in tank

14 + 2 (53-84.5) R.J.K. Feb '59

1 (80) gift to Lab. Ich., Zool. Inst., Leningrad

Sebastes atrovirens : 25 yg. - ad. 5 of ad. in tank

21 23 (39.5-257) R.J.K. Feb '59

Sebastes rostratus : 1 ad. in tank (269) R.J.K. Feb '59

Sebastes chrysomelas : 51 yg. - ad. 10 of ad.

in tank

47 (38.5-232) R.J.K. Feb '59

54. Oxypleura pictus : 101 lg. yg. - ad., in 2 - 1 gal cans.  
to Jay Quast, UCLA.

ret. 1960 DMO 94 (52-136)



51054-191

55' cm.

Nautichthys <sup>oculo</sup> oculofasciatus : 3 bl. yr.

Pale olive green.

3 bl. yr.

44-~~54~~<sup>64</sup> mm (Aot lechis 12 July 1957)

6 cat'd 25-34 mm

56. Siparis mucosus : 7 yg. - bl. yr.

① Very pale purplish. ② Very pale pinkish with bluish reticulations. ③ and ④ Striped with very pale pinkish and slightly purple. ⑤ young with very pale cream and purple stripes. ⑥ Cherry red with small slaty blue speckles. ⑦ Very pale orange-tan very thickly set with speckles and with bluish spots along base of D. and A.

57. Aukorhynchus flavideus : 4 post-larvae

59. Coryphopterus nicholai : 85' yg. - ad. 24-84 mm

Syngnathus zebra : 2 ad. 34-35 mm

60. Parichthys notatus : 24 yg.

25 cat'd 26-37 mm.

61A 3 post-larval blennies, prob. Gibbonsia

Gibbonsia elegans 245: 25-95.5.

(over)



61. con. Esselelenia laurae: (1561) <sup>1561</sup> gift to USNM, #296209

61B Sibbonsia montereyensis: 239 hl. g. - ad.

Esselelenia carli → 1(175) Holotype; 1 Paratype  
18(97-153) Paratypes (Laurae)  
20(61-174)

61C Esperichthys spilargenteus: 21 lg. yg. - ad. 29t. juv.

General body color is very variable but not very bright in any. One specimen is almost white, blotched with pale brown and bluish white dorsally (the bluish white is chiefly in squarish marks adjacent to base of D. and set off by small rich brown flecks far and aft; other similar specks of blackish brown occur over the sides; in this specimen a blue-white streak extends from the tip of the chin to the front of the D. base, widening on the snout and front of eye and covering the top of the head between the upper pair of brown/black edged streaks. The D. and A. fins are creamy white. The lower side of the head and belly bluish white. The pectoral fin is opaque blue-white on basal half and translucent tan on outer half. There is a brown dash on either side of the tip of the mandible and a diamond shaped patch just behind the symphysis. There is no trace of the blue-white cross bands on the mandible). Other specimens are olive, brown, or dusky salmon with the increase of dusky orange toward and on the lower side of the head.



55. 2 post-larval cottids

Scorpaenichthys marmoratus ruber:

14 lg. yg. - ad.; 2 of ad. in tank.

One half grown purplish brown with pale blue spots. One of smaller has considerable coralline color in light areas. One specimen dusky brown with bluish olive mottling. Fins bright cream with blackish red bars. 2 adults in tanks rather dull colored.

5(190-255) R.J.K.  
Feb '59

Hemilepidotus spinosus: 4 (103-115)

Artedius lateralis: 2 very yg.; 2 ad.

Artedius corallinus: 143 lg. yg. - ad.

Intensely coralline in upper light areas in some, pinkish tan in others

In one of large yg. the broad stripe across the nape is brick red.

Other D. light areas pale greenish

One adult had eaten a presumably joined S. mystinus,  $2/3$  its own length. 2 others had eaten lg. fish prior to joining.

(over)



55 cm.

Artedius harringtoni : 1 hl. gr. + 1 ad.

In hl. gr. dark areas with considerable dusky red. Light areas pale greenish gray toward edges. Reticulations around ventral clear areas purplish becoming orange on side of belly.

In ad. ♀, pale yellowish above with slaty ~~gray~~ purple bars. Reticulations around the light ventral spots becoming orange on side of belly. D. & C. fins very pale greenish yellow with dusky red stripes.

Artedius viasari : 36 lg. yg. - ad

Some with broad nuchal band of

salmon 33: 16-54 mm

Aofleckis 12 July 1957

Orthonopius tricus : 151 yg. - ad.

Oligocottus rubellus : 50 lg. yg. - ad  
49(21-60)

Oligocottus snyderi : 2  
1 ad (55 mm) Aofleckis 12 July 1957

Clinocottus analis : 1 hl. gr.

55A Clinocottus recalvus : 13 lg. yg. - ad (19-78)



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*Exocoetidae* com.

blackened just within the fine light border  
charged with orange. The A. also becomes  
black just inside the translucent border.  
The C. is light tan basally with a dark  
gray patch bearing some blue white  
spangles. The main part of the fin is  
blackish brown and the border is pale with  
a bare tinge of orange. Pectoral is largely  
sooty with cream and blue ~~into~~ white  
specks, border is whitish.

The lighter of the 2 adults is very  
similarly colored but the border of the  
D. fin is largely clear cream with dashes  
of black inside a very narrow border  
of orange.

The darker adult is largely rich  
purplish brown with dark areas much  
more extensive but the pattern is still evident,  
including the markings on the border of the D.  
described for the adult.

(36-145)

(50 *Aotlichia* 12 July '57)

Plagiogrammus hopkinsi: 51 yg. - ad. 2 removed

Nov '86

Adults have almost no definite color.

Young however have a definite pattern

General body color of yg is purplish  
brown as in adult but more or less  
strongly spangled with blue-gray. A cross  
base of C. is a very conspicuous  
blue-white bar. Bordering this is a  
(over)



slight to strong bar of orange with developed ventrally than dorsally. The rest of the fin is blackish brown with some light flecking and the posterior margin of the fin is clear. The dorsal fin has broad dark cross bars anteriorly, posteriorly usually becomes pale cream with blue spangles. The border of the fin is blackish. The anal is pale orange on the basal  $\frac{2}{3}$ , with more or less strongly developed spots or cross dashes of blue-white. Outside of this area the fin bears a continuous black streak inside a pale border. Paired fins are pale bluish or pale cream with dark bars.

1 ex to Walmorby for Dexter <sup>106</sup>~~105~~ mm

61D/6. Anoplarchus purpureus archolepis:  
8 lg. yg. 31-43.5 mm

7. Epiplatys atropurpureus: 17 yg. ad.  
17: 38-180 mm.

Xeristes fucorum: 32 yg. - ad. 55-120 mm

Bromophysis marginatus (Ayres): 1 hl. gr. 102.5 mm.



Mandibles are crossed with about 4 narrow blue-white streaks. The body often bears lighter, more or less gray splotches more or less connected with blackish brown and blue-white specks of varying size. The pores usually stand out as minute whitish specks. The dark bars on the head are separated by a more or less bluish white narrow streak, the upper is bordered above by a very narrow blue-white streak, sometimes faint. The lower is bordered below by a blue-white streak more or less confluent, especially posteriorly with the light color of the cheek. Purplish black shoulder blotch varies considerably in intensity, in the sharpness of its degree of extension ventrally. Belly is generally pale bluish or dull orange. D. is dusky becoming lighter and more or less charged with orange posteriorly in some specimens. There is a bare trace of the paler border posteriorly. The A. is similar but generally paler. Both fins may be finely speckled with blue-white or blackish or both. Pectoral fin is bluish white with dark cross-bars more or less tinged with orange, purplish or reddish. Most of the C. fin is dusky reddish with numerous specks of blue or cream grading into cross-bars near upper and near lower (over)



Superichthys can

border. Margin of fin is more or less clear.

~~1 ex to Witimovsky for dissection~~ 1/15/42

In SIO coll. as of 24 IV 65: 30 ~~29~~ (76-126)

61 E Chirolophus nigrator : ~~30 ad.~~

General color reddish, becoming brown or more purplish above and orange-yellow to orange-red on A. Lower part of head usually brick-red, sometimes gray. Pelvics vary from red to watery gray tinged with yellow. Lower part of pectoral more or less orange. Ventral bars pearly gray to olive, sometimes barely apparent. The red color of the upper  $\frac{2}{3}$  may contrast with yellow below

~~29 ad: 77 124 mm S.L.~~

~~Appl. Lichstein  
July 1957~~

~~1 ex to Witimovsky for dissection~~

~~1/14/42~~

→ 2 (93-103)

Ernogrammus sp. 1 bl.-gr., 2 ads. 2 yf. juv  
to Boyd Walker.

Half grown is rich brown in darker markings. Light purplish tan in light areas with numerous specks and streaks of bluish white, most strongly developed in rosettes along base of D. and along lateral line. The upper lateral line is cream-tan. Head strongly bearded with the lower parts pale olive-cream with olive-brown reticulations and watery blue white specks more or less condensed into a streak adjacent to the bearded just lower border of the main dark lateral streak. D. is blotched with sooty anteriorly and the border becomes

(Sent from UBC to SIO by  
R. Rosenblatt; returned  
to Witimovsky at UBC)

1 (92) exchange to Jørgen  
Nielsen, Copenhagen.



Otophichthys taylori : 5: 96-108 mm.

64. Citharichthys stigmatus : 40-(27,84.5) RR  
 42 very yg. - ad.  
 One of adults has orange gilt spots  
 surrounded by slaty with some bright  
 cream blotches.

cat Pleuronichthys coenosus : 1(57) RR  
 1 very yg., 1 lg. yg.  
 Upper surface of very yg. is lavender  
 with some yellow on throat and  
 lower part of the main muscle mass.  
 Broad band of pale yellow-cream on  
 C. base. The lavender color extends  
 into the D. and A. out to the sub-  
 median green-black band. lower  
 surface pale lemon-yellow.

The large young has upper side  
 largely coralline with areas of rich  
 brown and tan, speckled with black.  
 The submedian ocellus is metallic  
 blue surrounded by black then  
 lavender cream. There are 2 ocelli  
 on the C. fin of the same color but  
 less intense and modified by the  
 blackish membranes. The lemon-  
 yellow of the lower sides is faint except  
 near the bases of the D + A.  
 (all L. H. & J. & J.)



S10  
SEP 23 1954

## Enhydra notes

Except for jaws and teeth taken in the Cuyler Harbor midden on Sept. 16-17, no sea otters were found. We worked the little bottlenecked cove described by A. A. Allanson as the place to find 2 otters, but saw none here.

Gilman, Kelly, Linbaugh and others explored most of the north shore of the island <sup>almost</sup> as far west as Castle Rock, by boat and cliff top walking, looking for otters, but saw none.

## Other sea mammals of San Miguel

One small Mirounga was seen 17:16 in Cuyler Harbor, in the water near shore. Gilman mentioned seeing a few harbor seals on the north side of the island. He and Kelly worked the California sea lion and elephant seal colony of Point Bennett.

Jack L. Hubbs.