

To UCLA V:12:53

Sta. No. H46-245 (1562-46)

Locality: México: Puerto ~~de~~ Marques, near  
Acapulco, on N shore just outside sand  
beach near NW corner of bay; Guerrero  
Lat. 16° 48' 34" N.; Long. 99° 52' 19" W. (USC & GS chart 0872, 1941.)  
Water: clear, salt  
Vegetation: a little encrusting coralline + very  
short brown algae  
Bottom: rocky & changing abruptly to sand Temp.: warm  
Shore: rocky Current: consid. wave  
Distance from shore: close Tide: low (slight)  
Depth of capture: - Depth of water: to 10 ft.  
Method of capture: dip + cyanide poisoning  
Collected by: Paul L. Hubbs (Laca Exp.) Date: IX:15:1946  
Orig. preserv.: 10% form + borax Time: ~~afternoon~~

Collected on Mexican Independence  
Bay  
"Quince de Septiembre"

Small collection of invertebrates  
saved.

Fair killing of small fish but  
they largely disappeared (into  
crevices or down predators) before  
they could be caught, on wave  
swept bottom (by diving) otherwise  
collection uncollected except that some large  
specimens of *Microgaster*, *Myripristis*, etc. not taken.

(26) One eel, probably a moray, about  
2 1/2 ft. long, with longer jaws  
slender muzzle and stronger teeth  
than those taken about Acapulco,  
pale brown in color, seen repeatedly  
when coiled on bottom - too live to handle

26 con.

Maiptrygius (?)

Hl. gr.

Blackish blue and dirty tan, much mottled. Repeat on Horns coll.

Gymnothorax

This hl. gr.?

Muzzle rather pointed. Lateral teeth very depressible. Deep slaty, becoming dirty yellow on C and near margins of D and A posteriorly. Blackish spots in varying no. on throat. Young particularly with pores on head white.

Muraena lentiginosa: few, yg. - ad.

31. <sup>ok.</sup> Myripristis

large ser., yg. - ad.

Young with red stripes between scale rows. Died soon in large nos. + floated away.

611. <sup>Sargocentron</sup>

Holocentrus suborbitalis: ser. ser.,

32 Chaetodon yg. - ad.

sp. sampled elsewhere seen

33. Pomacentrus

punctatus

ser. yg.

sp. 1 seen (sp. sampled at) 40-230

Adults schooling along edge of reef as usual.

34. Tetraodon setosus: common

along edge of reef at beginning of poisoning.

35. Epinephelus: 1 ad.

Brown-banded with many blue spots. Over ~~sides~~ top of and sides of head there are brownish orange spots (con.) (fence)

35 (con.)

in a blue network. An approach to this pattern is seen on the upper-anterior back. Flaps above  $P_1$  base and basal part of  $P_1$  on inner side blue with golden spots. Outer side of  $P_1$  greenish brown. Other fins mostly blue-black.  $D_2$ , C &  $A_2$  with blue-gray border. Behind eye is a large blue-edged violet blotch, near circular.

~~*Polygaster* *annularis*~~ (3)

~~*Micropogonias* *dermatolepis punctatus*~~

Young to L. gr. - ad. ser.

Young with <sup>soft</sup> brownish black stripes on body and fins.  $P_2$   $\frac{2}{3}$  black. With age silver blue spots appear in the dark bands and dark spots appear in the light bands. These changes, plus a general ~~lightening~~ ~~down and darkening~~ of the graying of both the dark and the light markings, lead to a great decrease in the contrast of the colors & pattern. With age the fins become almost black.  $D_2$ , C and A become narrowly bordered with yellow, the  $P_1$  with blue gray.

~~*Apogon* *retrovallis*~~ : yf. - ad., ser.  
 Young (1) is barely pink. There is scarcely a trace of pink except for  
 over

a wash near base of D and near the C fin. Side of trunk and side of head ~~and below~~ behind eye blue-silver.

There is a blackish stripe around the snout in line with one behind the eye. There is another such stripe extending backward below the eye, from just behind the mouth. The spot on D (upper end of bar) is

39. unusually prominent  
40. Chaenonotus proboscideus: 1 bl. gr. <sup>specimen</sup>

42. Caranx sp. probably the "jural";  
fairly common ~~ref.~~ <sup>ref.</sup>

44. Haemulon \_\_\_\_\_: 1 sp.  
2 black stripes and 4 yellow bands.

Haemulon \_\_\_\_\_: Specimen  
with yellow fin and large  
basicaudal spot seen, common,  
about edge of reef.

Haemulon \_\_\_\_\_: Specimen  
with yellow on back between the  
dark bands seen, common, at  
edge of reef.

46. Eques \_\_\_\_\_: 1 ad. Laven.  
der with brown stripes. D, black  
with broad margin of bright yellow  
the only striking color feature  
The other fins are black-blue with a  
gray border. (cont)

48. Pomacentrus ~~flavilatus~~ <sup>flavider?</sup>: the  
banded species. Common and  
large. Sm. ser. taken. In life  
what appeared to be the large  
adults of this species were tan  
in a broad area on anterior  
back.

✓ Pomacentrus <sup>rectibraenum</sup> ~~flavilatus~~ <sup>blue</sup> blue  
Pomacentrus ~~flavilatus~~ <sup>blue + yellow</sup> blue + yellow.  
Sm. ser. of each.

✓ Abudefduf saxatilis (?)  
The strongly banded species  
with yellow or light bars  
medio-dorsally. Fairly common,  
but not killed.

✓ Microgathodon dorsalis:  
lg. yg. - lg. ad. Sm. ser. saved.  
Adults ~~very~~ common.

50. A large (20") fish seen, seemed to  
be a labrid. Brownish with one  
conspicuous light bar on middle  
of side. Just ~~at~~ beyond rocks.

Bodianus \_\_\_\_\_: hl. gr.  
Large ado. seen. One very large  
labrid with a strong hump  
may be this sp. Colors as  
described for H 46-244.

✓ ~~Halichthys~~ <sup>Fulidius</sup> notospilus sm. ser.  
yg. to ad. (Colorless)

✓ Thalassoma lucasanum: few. In life  
OVER.

over

the yellowish stripes on the upper sides are strong and are continued forward to meet above the eyes.

[Color of Halichoeres:

D, A, and body are thickly spotted with blue. The gilt-brown, major part of the C also has blue spots. The outer part of the C is bluish white. P<sub>2</sub> has a bright blue outer edge. Head has blue stripes.

51. Kyphosus sp. A few seen; not caught.

52. Cirrhites rivulatus: yf.-ad.  
Young have coppery-red and blue reticulations from interorbital to the bar below front of D. There are 2 blue-silver spots near base of D<sub>2</sub>.

Large parrotfish seen; 1 apparently of the humped sp. taken by "Tarzan".

58. Eleotrid

1 ad. (repeated on Hornos 1746-237)  
deep brown bands with narrower pink-white interspaces. Many of the brown bands have even-edged tan centers, in part grading into pink white. Obviously the no. of stripes that increases with age. (con.)

58 (con.)

D<sub>s</sub> sooty. C black-greenish with a gray border. A brown. P<sub>1</sub> and P<sub>2</sub> sooty brown with a pale border.

60. Dactyloscopid

✓ Saddles red-brown in long rectangles with blackish borders. Light spot on opercle bright blue-white. Bar below edge of similar color. Arc on top of head amber. Area to front & to side, light brown. Opercle largely gilt.

Gobioids <sup>Arcos</sup>

✓ ~~Gobiosoma~~ <sup>Arcos</sup> poecilophthalmus: 1 ad.

Pink with brown cross bars posteriorly and brown-red reticulations anteriorly. P<sub>1</sub> pink with 2 bluish cross bars. Anterior and posterior parts of disk pink-spotted. Extreme tips of P<sub>2</sub> rays yellow. D and A pale cream with pink markings. C similar but redder. Eye ruby.

Note: last sp. and next differ greatly in the pattern of the pair of pads near middle of disc.

✓ Cotylin woodsi: 1 ad.

Dark brown, with fine, pale streaks and reticulations. Cross bars mostly pale lavender; last one lemon-yellow;

(over)

over

next to last one intermediate in color. Dish white with a slight tinge of lemon. Bars on lower <sup>lateral</sup> side of head brown and lavender. D sooty; C and A blackish; all with pale edge. Iris blackish except for fine golden rim around pupil. P, slightly amber, with a dusky spot near base above.

✓ Arbacia petersii The water surface sp. Adult.

61. Malacoctenus ~~zoster~~ zoster: 2 ad.  
(Spotted head and low anterior D lobe)  
Unusually high in color for this sp. In the larger specimen, assumed to be a ♂, the bars are dull red. In the smaller one, likely a ♀, the ~~bars~~ bars are brown. In both the bars are disrupted and the dorsolateral interruptions are green (in line with a ~~weakly~~ weakly developed dorsolateral light stripe). The interspaces between the bars are lavender on the anterior  $\frac{2}{3}$  of the body. There is considerable gilt on the posterior  $\frac{1}{3}$  of body. The smaller fish has some orange on the first few D spines, but the Ds otherwise, as also the C and the posterior half of the A is yellow-  
(con.)



61 (con.)

H46-245 (1562-46)  
CON. 4

amber. Front part of A, all the P<sub>2</sub> and the thickened parts of the P<sub>1</sub> rays are orange. Bars on lips and the tip of chin are orange-pink.

✓ Malacoctenus \_\_\_\_\_: 1 added.

(The smaller sp., with more elevated anterior D lobe.)

Mostly yellow, with whitish on interspaces between the somewhat greenish yellow bars and on the disrupted primary light stripe (from eye through P<sub>1</sub> to C just below middle of sides). Basicardal spot bright cream. Light bars and stripes with spots and partial edging of purplish black. There is a bright blue edge on the dark stripe behind the eye. There are other streaks and spots of blue. The head filaments are red. The anterior D<sub>1</sub> lobe is brown; elsewhere the fin is gilt amber on the extensions of the cross bars of the body. D<sub>2</sub> has whitish and amber areas and a broad pink edge. C yellowish becoming dull pink toward tips of lobes. A yellow and orange on the bars and margin. P<sub>2</sub> and lower P<sub>1</sub> rays are gilt. Lower part of head yellow. Eye green above, ruby around pupil & below.

OVER-

over  
61 (con.)

Labrisomus  
Malacoctenus n. sp.

(Like Pocillichthys camurus).  
Behind the P, base the body is  
dull lavender with numerous pale  
pinkish streaks. Bars almost  
completely disrupted into red-brown  
spots. On D near base are red  
spots and small bars. Outer  
part of spines and speckled  
with green-brown. C with pairs of  
pink blotches at base and rows of  
green-brown spots. A banded with red  
and blue-white basally, with only about  
1 row of brown spots (2 or 3 rows on  
posterior lobe). P, dull green  
ish amber above, with red specks  
in axil and with brown bars below,  
separated by blue white. A reddish bar  
before D<sub>1</sub>. Nape with coarse cross  
markings of cream and reddish. Tops  
of head with green and narrow red cross  
stripes. Red upper lip crown by a  
the brilliant blue-white stripe; posterior  
bar faint in other specimen. 2  
streaks of mixed black and brown  
behind eye, separated by a white  
bar. Red blotches, black specks  
and blue-silver lines on opercles.

Enneanectes

~~Enneapterygius~~

Enneapterygius carminalis : 4 ads

Three adults, probably ♂♂ are bright  
Axoclinus carminalis 5(19-21) Feb 59 (con.)

61 (con.)

H46-245 (1562-46)

CON. 5

Salmon about the mouth and across the cheeks. In these 3 the C fin and the adjacent part of the body are black, with a trace of light bars in the C. Sides are brown with bright blue ~~spots~~ blotches more or less aligned into bars. D<sub>1</sub> and A pink. P<sub>1</sub> pink with 2 brown bands; becoming orange on thickened parts of lower rays. Top of head dull orange with bright blue spots and streaks.

The 4<sup>th</sup> specimen, likely a ♀, has the cheeks bluish, the C base and adjacent parts of body dull red; C outward with 3 bands (yellow, brown, and cream). D<sub>s</sub> and A barely pink. Body color as in other 3, but less intense.

P<sub>2</sub> pale gilt. P<sub>1</sub> with 2 slightly gilt bars on a pale lavender base and yellowish on lower rays.

Clinid with long D<sub>1</sub> and short, nearly separated D<sub>2</sub> (Starksia crennolata).

2 ads.

Heavily spotted and blotched with olive green, more or less reticulated with the gray background. On the trunk are brown-red flecks; on the axillary regions, a few very over

fine red reticulations. Branchio-  
 stegal membranes yellow amber.  
 P<sub>1</sub> lavender, becoming orange  
 outward; base of fin ~~sub~~ semi-  
 formly pink or ~~red spotted~~.  
 red-speckled. P<sub>2</sub> whitish.  
 D<sub>1</sub> with a row of green spots at  
 base and with reddish spine tips.  
 D<sub>2</sub> largely greenish in 1, slightly so  
 and with a dull red margin in the  
 other. C greenish yellow with an  
 orange border. A mostly lavender and  
 greenish, with a pale border that  
 broadens posteriorly and becomes  
 orange yellow or orange red. Top  
 of head is greenish with lavender  
 reticulations in 1. A cream bar  
 connects the eyes and there is another  
 such bar on the tip of the upper lip.

Nasal filaments are red.

~~Hepatoscytes~~ <sup>Cynoscytes</sup> <sup>atlapiscus</sup> ~~umbroscariatus~~: yg.-ad.

Adults with <sup>upper</sup> slight margin of C  
 orange ~~above~~ and lower one yellow.

Some of smaller ones have  
 a subcontinuous dorsolateral  
 greenish stripe.

~~Salanichthys vanderbelti~~: Ll. yg.-ad.  
~~Eutombrochus chostictus~~

~~Blennioides brevispinis~~: 1 ad. Bars  
 pinkish brown. Each of first 3 interspaces  
~~and~~ contains a cream-bordered, reddish  
 1 cont.

Rupiscartes

steindachneri

11 (48-86)

R.J.K. Feb '59

61 con.

spot along the dorsolateral light line. The lateral blackish brown stripe contains a row of whitish spots or cross streaks. There are ~~some~~ blue marks. The thickened parts of  $P_1$  rays are rusty orange. Spots below eye and on upper lip are dull red. Lower sides of head slightly yellowish.  $P_2$  white. Some amber on rays of vertical fins.

✓ Ophioblennius \_\_\_\_\_ : 1 ad. A

dully colored species. Bars dusky, ~~lavender~~ lavender with a slight pink tinge dorsally. There is a little red on the  $D_1$  and  $D_2$  membranes, near base. As a whole  $D_1$  is dull amber and  $D_2$  gray.  $C$  is dull lavender at base, then bluish, with some red in each lobe.  $A$  is gray.  $P_1$  is gray with a large ~~dull~~ pale orange-red area on the lower part.  $P_2$  dull.

61A Acanthemblemaria macrospilus (New fish near Emblemaria?) - First capture.

1 H. sp. + 3/4 ad. Anterior  $D$  lobe brilliant shining red, with jet-black spot at base. A broad orange ~~red~~ bar across lower side of head, but tip of chin pale yellow. Lower part of head behind red bar is lavender in 2 and pale yellow in 2.  $P_2$  green-yellow, with (over)

<sup>red</sup>  
tips in 2. Tops and anterior sides of head ~~head~~ thickly stippled with minute, evenly spaced silver-blue dots. Body is cream, becoming pink below, with blackish olive-brown blotches. C rays largely red. D<sub>5</sub> behind red lobe with very pale lavender membranes and with red on rays. A with a dark submarginal band, which is only weakly represented on the D. A striking fish. Small specimen has spot on P, base red.

64. Ogilbia ventralis : yf. - ad., su.

Many are olive with a yellowish edge on the D, which has a deep brown base. One of the largest (with 2 small black wounds on left side of trunk) has a brown body; the posterior half of the A is purple-brown (behind an injury?), separated from the pale margin by an orange area. C is similar, but red toward upper and lower edges.

65. Antennarius : 1 ad.

Belly yellow, ~~head~~ with blackish spots. A dusky spot on D<sub>2</sub> base is broadly bordered with yellow.