

To UCLA 1/12/53

Sta. No. H46-239 (1557-46)

Locality: Mexico: Puerta Marques near Acapulco, Guerrero - About rocks at S. end of main beach.

Lat. 16° 47' 46" N.; Long. 99° 51' 43" W. (USC & GS chart ^{H.O.} 0872, 1941.)

Water: clear, salt

Vegetation: considerable encrusting coralline algae and some short growth on rocks

Bottom: rocky boulders and soft sand Temp.: warm

Shore: rocky + long steep beach Current: little

Distance from shore: to 100 ft. Tide: little

Depth of capture: ~~deep~~ horizontal + vert. recess Depth of water: to 8 ft

Method of capture: NACM + derris poisonnet

Collected by: Zaca Exp. Date: IX: 10: 1946

Orig. preserv.: 10% form. + borax (fishes) Time: 2-5 P.M.

Small set of invertebrates - sample of relatively rich fauna - preserved in alcohol.

One clam shell + 2 large gastropod shells dry.

Small sample of algae.

Some selection - boys taking larger fishes and ♀ selecting rare ones. None, however, intentionally discarded.

Ginglymostoma cirratum:

1 subad. ♀ - "Gata" (being ♀).

26. Muraena lentiginosa: "Anguilla"

su. ad., lg. y. - ad. Same sp. as common one at Oruro. over

Echidna

1 ad.

General tone olive-purple, with yellow toward margin of fins.

31. ^{Myripristis} ~~Holocentrus~~ occidentalis : large no., hl. gr. - ad., mostly ad.; came out early from day crevices in rocks.

slight red everywhere. Eyes red. Vertical fins and P₂ scarlet. P₁ pink. Scales with underlying silver on center of pockets, giving a coppery effect.

- ✓ ^{Holocentrus} ~~Holocentrus~~ suborbitalis : sm. series, yg. - ad.

Eye with much red. Cheeks with coppery red flecks. Scales of body with bright blue centers.

33. Yesurus punctatus : sm. ser. of large young.

35. Epinephelus labraciformis (serranid): few, hl. gr.? Blue-spotted - same species as was caught at Ornos.

_____ : few hl. gr.

Another sp. of Epinephelus type; head profile sharp. Body bars are purple-brown, with some gilt at scale centers. Light bars are tan with bright blue speckling. Upper jaw, cheeks + opercular membranes have hexagonal orange spots in blue reticulations. The fins are very

35 (con.)

dark, with blue speckles like those on body. ~~and fins.~~ D₂, C and A have a gray border.

✓ Apogon _____ : ser. ad. + 1 or a few
hl. gr. Came quickly out of rock crevices. Very bright coppery red. Bar and spot jet black. The spot on D base disappears with age (nominal species involved?). Tip of D lobe and upper + lower edges of C sooty.

39. Mullus _____ : 3 hl. gr.

C bright yellow, becoming golden at base, merging into an even band of golden yellow, running straight from above middle of C to eye. D₅ pale yellow, as also P₂. A with only a trace of yellow. P₁ with a trace of pink. Some pale purple red on lower parts of face. A gilt streak margins eye ventrally and another runs forward from eye.

40. Chaenomugil _____ : 1 hl. gr.?

Othos seen in a rather close though small school just outside the big rocks. D₁, D₂, C, A and upper part of P₁ slaty bluish; lower part of P₁ and all of P₂ clear. There are dark speckles, 1 at base of each scale.

42. Caranx _____, "Jurel" - hl, gr.
Selar crumenophthalmus: several ads.

Blue reflections dorsally, above
the golden yellow diffuse streak
that runs from eye to C.

44 Haemulon _____

Several hl. gr. - ad.; came up
late, perhaps from over sand.
5-6 silver-gilt bars above. 6 dark
bars, with blue-black specks (1 per
scale base). Some similar black
specks on head. Fins dusky
with whitish blue-silver overcast.
C + A₂ with a narrow pale posterior
border. P₁ very pale cream, with a
yellow wedge near base above.

Haemulon _____ : 1 ad.

(Large, deep-bodied). Plain silver-
yellow above, silver below, with
strong blue reflections on head.
Fins dusky with a blue-silver
overcast.

[Next 2 might be young of the species
noted above].

Haemulon _____ : 2 lg. yg. or hl. gr.

Yellow gilt on upper parts, back
to below front of D₂ and down to
the blackish band that connects
the eye with the C spot in a
straight line. C and much of
(con.)

44 (con.)

D₅ and A sooty. Another dark stripe, curved upward, runs from nape to end of D₂.

Haemulon _____ : sev. lg. yg. or hl. gr. Blue stripes ~~are~~ alternate with yellow ones along the scale rows. Head is largely bluish. D₅ and A clear yellow. C with a large basal, blue-black spot, followed by sooty and finally yellow; P₁ and P₂ pale yellowish.

48.

Abudefduf or ^{Nezilbanus} Chromis. Sev. lg. gr. Most of body blue with more brilliant silver-blue spangles, but 4 light bars on upper part of body are yellow-green. P₂ is bright blue. A + C bluish. P₁ very pale. D₅ with a greenish tinge.

Pomacentrus rectifraenum ^(sm. subsp.) : the common barred sp. ^{sm.}; sev. hl. gr. - ad. There is much gilt about sutures between head bones and at base of body scales; also on D₁ membranes. Row of blue dots, 1 per scale, posteriorly on body.

Pomacentrus flavilatus _____ : sm. sev. yg. (blue and yellow) - ad. (dark with vertical dark ~~sp~~ streaks.

(over)

Jden. with
found
with
X: 19:56

Microspathodon dorsalis: several

blue-spotted young.

50. ~~Halichoeres~~ notospilus: sm. size,
yg. - lg. ad. Olive with blue bars.
Belt on bars dorsally especially on
those above and behind anus. Dark
saddles ~~between~~ along D base. Bright
blue spots on D₂ and blue streaks
on head.

Thalassoma lucasanum: 1 ad., same
sp. as seen on Roqueta Id. in
schools just off rocks. Also,
perhaps, on plainly striped yg.
In the adult the lengthwise stripes
are as follows:

- (1) A pale edging on D_s; narrow.
- (2) Blue black over most of D_s and onto
body.
- (3) Yellow-gilt, with rather indistinct
reddish purple cross marks.
- (4) Black with blue tinge.
- (5) Brilliant yellow, with green tinge
posteriorly; anteriorly grading into the
bright yellow breast.
- (6) Deep rose.
- (7) Purplish white, grading into blue-
white on belly.
- (8) Red over most of A.
- (9) Pale edge on A.

The stripes fade out gradually on
(con.)

50 (con.)

the blackish upper parts of the head.
The lower sides of the head are dusky green, the under surface yellow.

P₁ is yellow toward base, with a brilliant blue spot in the axil.

Pseudoscaris pauc? : 1 U. gr.

A plainly colored scarid. Bluish gray with sooty purplish mottlings. A little green-gilt about eye and a trace of amber-gilt on D₂ and C. P₂ with a yellowish base. Eyes gilt. C margin gray.

52. Cirrhatus revolutus

Sex, yg. - ad. This is sp. of which adults are seen slinking between large rocks (here, at Roqueta Id., etc.). The color change with age is remarkable. The young are banded with solid black on a pale brownish base that shows silvery spangles. The most striking feature is the largely orange-red D₁. The transformation to the adult is gradual. The ad. is yellowish with bars made up of yellow-gilt spots brilliantly blue-bordered. On the head the radiating bars are not broken up into spots, but are of similar color. On the C the spots (of same color) are squarish (over)

blocks between narrow silver-blue reticulations.

53. Scorpaena _____ : 2 1 yg.

Almost black except for broad posterior bar, which is greenish above and blue gray below. P_1 is blackish, dappled with green and blue spangles; with some orange at tip of thick rays. P_2 reddish at base, then black, finally white at edge.

~~Scorpaenodes~~ Setastropis xgris _____ : ~~few~~ 1 gr.

2 lg. yg. + 1 hl. gr. 1 hl. gr. yellow-gray with brown bars. Chin Salmon. A salmon tinge on P_1 and some pink on P_2 and A.

60. Cotylis ^{woods} _____ : 6 hl. gr. - ad. Varying from pale purple with black-brown bands to almost solid black above and sooty below on the posterior

~~parts~~ Arcos erythropros 12 (25-42.5)

60A Sobasus _____ : 12 hl. gr. - ad.

All are pink with dusky pink cross bars.

60B Tomicodon zebra _____ : # 4 (13-29)

hl. gr. - ad. [The water-lim sp.]
Pink with brown bands.

_____ : 2 ads.

Dactyloscopid. Waxy yellowish with black V's enclosing orange-
(over)

yellow. Side of head and the cross bar at top silvery. P, base brilliant silvery. On head the markings are less definite than on body. ^{on} sand.

ser. of 2nd sp. of *Dactyloscopidae*. Dorsal markings are rectangular orange-red saddles with blackish borders that are connected ventrally below the pale interspaces. This is sp. with low periscopes. On sand.

hl. gr. - ad. like other *dactyloscopids* on sand. Back silvery rose with rose-red saddles that are about square. Base of C rosy.

~~*Myxodagnus operitaxis*~~
~~*Acanthocheilichthys*~~ like fish, with protruding chin. Ser., hl. gr. - ad., all on sand, quickly affected but not dying. The projecting chin and the top of the head finely mottled with orange-yellow and purplish. Back is warm yellow amber. Rest of body has a slight purplish cast. (Perhaps best funds.)

61. ~~*Leprosoma*~~ ^{*Sabrosoma*} *xanti*: a few ads.

Malacoctenus: 9 hl. gr.

- ad. (the small, bright, sharp-souled sp. taken in larger nos. at Ornos).

Variable. Some are green below and on the ~~to~~ dorsal bars. Others are purple-pink below and reddish on the bars.

Salisomus n. sp.
Malacoptenus (?): 1 ad.

The sp. like Poecilichthys camurus. Darker than the Ornos speciosa, but fundamentally similar in pattern. Similarly striped on posterior 3/4 of body. Stripes wavy and black-brown. Vertical fins barred irregularly on rays with black and pale. A toward base is red with blue-silver reticulations.

Belly purple gray with olive reticulations. Lower side of head is dirty yellowish. The opercles are brassy orange-purple with sparse but bright blue lines. Cheeks are olive with reddish black marks. Upper lip largely reddish with 2 silver-blue cross streaks on each side.

Malacoptenus _____: still another sp. of clinid. 2 h.g. + 1 ad. Greenish gray with yellowish green on lower side of head. Very heavily black-spotted. Spots form black-orange streaks along scale rows ventrally. Fins greenish, with light + dark barring. No red. (Günther)

61 (con.)

Paraclinus _____ : 7 yg.-ad.

Same sp. as taken at Olivos.
More or less coralline on light dorsal bars. C greenish gray to purple, with blackish bars and a dark base in all.

✓ Paraclinus _____ : 2 hl. gr. (?)

A compressed species. D ocellus evident in larger one only. Rosy black with darker parts of D and A deep pink. Eye with a ruby tinge. A brilliant silvery bar behind eye and 1 or 2 spots of similar mirror-like reflections on base of P.

61A ~~Emblemaria~~ Axoclinus → 5 (19-23.5)
Hypsigrammus carnalis : 12 hl. gr.-ad.

Bars blackish green, without bright colors.

7 ✓ Starkia crenobates ^{2 sp. - 7 hl. gr.-ad. Emblemaria carnalis} : Probably

new blenny with D₁ much longer than D₂. Dusky green mottlings on a base that is purplish gray anteriorly and light green posteriorly. Strong wash of orange on D₁ and adjacent parts of head. Head otherwise largely greenish.

✓ Emblemaria _____ : Elongate blenny. 4 specimens. Blackish rose with dark markings (indistinct in 1). C yellowish. A trace of same
(over)

(over)

color on D₂ outward. D₁ with
irregular margin of green-black and
some pale green-yellow anteriorly.

Parastathmonotus n. sp. Elongate
blenny (3 specimens). Reddish brown
becoming greenish on A and C. Fine
black speckling on P₁ and P₂.

Emblemaria : Elongate

1 ad. ♂. Same sp. as taken at
Hornos, with light-bordered blotch

behind eye
~~Scartichia~~ Gynoscartes umbrofacialis : a few ad.

(The large Blennius-like fish).
Pentomacrodus chiropteryx ♂, - The
~~Salvachichthys~~ salvachichthys

rock shrimps. : 2 he-gr.

Blennioides bleurpinus : 1 bright ad.

Greenish gray with a wash of
purple on the upper light stripes.
Dark markings purple-black. Eye
deep rosy. P₁ yellowish toward
lower edge.

Petrosichthys azulea : 1 ad. Yellow-
green above, becoming clear
posteriorly and dusky anteriorly.
A blue black submedian stripe.
Grey with a silvery blue tinge
ventrally. D₁ anteriorly coppery
red at very base and yellow amber
above ~~the~~ a dusky area. Entire D
with a narrow pale edge. Caudal
(con.)

61 (con.)

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(con. 6)

yellowish toward margin. A pale yellow.

Ogilbia ventralis (1) : ♂ hl. gr. - cd.

To B.W.W.
IV: 12: 52

♂ + ♀. Same sp. as at Ornos.
Varying from light to dark. Lighter ones with basal parts of vertical fins yellow.

Ogilbia _____ : probably

To B.W.W.
IV: 19: 952

a new sp. 1 ad. ♂. Body deeper, color different, genitalia seem different. Body light brown forward, grading into deep brown-purple posteriorly. Anterior part of D is brown; posterior part of D and all of A almost jet-black. D + A with a pale border ~~with~~ anteriorly ^{and} posteriorly. C purple-black at base, elsewhere light yellow. A little pink about mouth and chin.

65. Antennarius _____ : 1 (hl. gr.?)

Orange-brown with faint purplish mottling and purple black spots. The fuzz (prongs of cirri) is dirty olive. C is orange medially and slightly greenish outward. P₁ and P₂ are orange on bases and the body between the bases of these fins is also orange. Belly is orange with small purplish spots.

over

(over)

D and A orange-purple, with creamy
edges. P₁ and P₂ says greenish yellow.
Chin mottled with purple!