

To UCLA V: 12:53

Sta. No. <sup>230</sup> H46-~~230~~(1948-46)

Locality: Mexico: N. side of Roqueta or  
Grifo Id., off Acapulco Harbor, Guerrero.

Lat. <sup>29</sup> 16° 49' 16" N.; Long. <sup>99</sup> 80° 55' 42" W. (USC & GS chart <sup>H.O.</sup> 0872 19#1.)

Water: very clean

Vegetation: very little, few short growths

Bottom: sand, boulders, rock Temp.: warm

Shore: sand beach and rocky Current: little

Distance from shore: to 100 ft. Tide: little

Depth of capture: various Depth of water: to 30 ft.

Method of capture: observation, dig-net, diving

Collected by: Zacc Exp. (Hutch-Flynn) Date: IX: <sup>11, 3, 8</sup> 2, 18, 1946

Orig. preserv.: alc., form., etc. Time: day <sup>11</sup>

IX:3

Collection of molluscs - 1 large clam  
taken alive & cleaned - oyster picked  
up on beach. Including ~~etc.~~  
drift material for sorting.

Small no. of invertebrates in alcohol.

Small lot of algae in 5% form.

motion picture taken of diving &  
fishing.

Second octopus brought in IX: 8-  
poor condition <sup>First one caught IX: 3</sup>

IX:1 A few invertebrates collected  
by T. T. Flynn

- over -

FISHES - IX:1

34. Tetraodon setosus: 1 bright orange-yellow adult with black blotches. Used for sequence in "short" motion picture.

FISHES IX:3

Actually sampled only the gobioid and the blenny that live much on the trim above the water surface, and a few fish speared by famous Mexican swimmer, Apolonio Castilla.

23. A small 4-winged exocoetid, watched in flight close to island. Took off with short taxi and held all 4 planes stiff while in the air.

Hyporhamphus \_\_\_\_\_: schools at surface. Less common than in bays.

32. Chaetodon \_\_\_\_\_: single individuals + small schools seen about rocks. Species later sampled in Acapulco Harbor and in Puerto del Marques.

~~33.~~ Cheetodon \_\_\_\_\_: smaller no. of a different species, with main mark a long black stripe along or near D base.

32 (con.)

H46-230 (1548-46)

CON. 1

Pomacanthus

Several isolated fish seen; 1 hl. gr. + 1 ad. speared. The main cross bar is clear white. C is opaque orange-yellow with a narrow basal yellow stripe. D + A are blackish with an orange-yellow border inside the extreme blue edge. The orange-yellow broadens toward front of D, to include finally the whole width of the fin. P<sub>2</sub> is lemon-yellow. Motion pictures in tank.

33

~~32~~hepatus

1 large ad. Brown with deep purple vermiculations on the head. Blue on D<sub>2</sub> and A. Eye mostly yellow.

Outer part of P<sub>1</sub> is yellow.

A no. of hl. gr. (or a smaller gr.) seen around rocks. ~~See~~

34. BalistesXesurus

punctatus : ~~seen~~ 3

half-grown - ad. speared. Many seen often in by curtain-like schools along outer edge of rocks. The oblique dark bars on the head are conspicuous in the water but usually fade on death, as does the yellow C. The dark spots concomitantly increase in intensity. If memory doesn't fail, the fish is more spotted than its Socorro (over

representative. Motion picture in tank.  
 34. Balistes \_\_\_\_\_: 1 ad. speared.

Others seen singly in small nos. about rocks. No bright colors.

Usually brownish in a large area on lower anterior sides.

Monacanthid - several seen swimming about the rocks singly, or rubbing at the rock surface.

Tetrodon setosus: 2 ~~ad.~~ adults

speared, others seen singly, about rocks. Blackish blue with whitish spots. Others seen were orange-yellow.

Diodon \_\_\_\_\_: 2 adults

speared about rocks. Motion picture.

35. Several species of Epinephelus like serranid seen but not adequately annotated.

38. Several snappers seen include the large brown, blackish-farred "gargo" - rather deep along rocks.

39. \_\_\_\_\_: The

mullid sampled IX:11 was common on sand - mussels; its body like a hog, moving the barbels into the stirred up sand.

\_\_\_\_\_ : a second species, also with yellow stripes but with back definitely light yellow. (C)

1x:3 (con. 1)

H46-230(1548-46)  
CON. 2

39 (con.)

seen rooting in bottom in more or less completely separated schools.

41. Gerres simulans (?): a few large adults seen swimming out over sand into deeper water. Too large to be deep and too much barred for Ecomostomus & apparently not Liagasterus.

42. Caranx \_\_\_\_\_: a no. seen about rocks. likely the "jewel".

44. Several haemulids, not adequately annotated. A fish about 3-5 inches long that followed the waves on the beach into very shallow water escaped swimming with 6' of seine (later seining planned for fished). This may have been an haemulid.

48. Pomacentrus <sup>leucostictus</sup> sp. barred - seen among rocks.

seen (approx) on lower rocks 8:45:57

Pomacentrus <sup>leucostictus</sup> sp. blue and gold, seen among & between rocks even into surge, with neat eye.

Pomacentrus rectiflammum (slender): the light blue one - seen even in surge. Escaped dignelting.

Abudefduf saxatilis (green between bars, medio-dorsally). Fairly common, in small schools.

Chromis \_\_\_\_\_ (white spot at end D<sub>2</sub>) of several small schools, just off rocks (over)

Trachinotus - "Palometa" - 1 school

over

A jerky, seemingly nervous  
subinhabitant.

In main but show later  
several seen that were  
glaucomous anteriorly.  
1 or 2 glaucomous  
posteriorly

Microgasterodon dorsalis:

blue-spotted young in shallow  
water, none in surge. Adults  
very common, often in loose  
schools, occasionally in surge  
but usually at 8-25 feet. Only  
one seen was  
far as glaucomous anteriorly, like  
many in Jordan's coll.

50. Bodianus justus: a few  
seen rather wild - obviously  
same sp. as caught at H46-244.

50 Halichoeres:  
y.-ad. common in shallow  
water among rocks, even into  
surge.

50 Thalassoma <sup>Jordan</sup> lucasanum: a few  
schools seen - very  
beautiful, close to rocks,  
even into surge.

See  
H46-244

50 <sup>Scorops</sup> Scoropelus <sup>Jordan</sup> jordanii <sup>fibroviolaceus</sup>: 1

sent to L.P. Schultz  
row  
USNM 163663

large adult speared and saved.  
Largely blue-green, becoming pale  
rosy brown on opercles and on  
middle sides. Teeth green.  
Edge of upper lip orange-yellow;  
snout deep blue-green above this  
border. Lower lip has a narrow  
blue border and then a broad  
(con.)

band of <sup>bright</sup> orange-yellow, then a broad blue one followed by irregular marking, not very distinct, of dull orange-yellow. D is blue forward with an increasing amount of orange-brown on membranes, until fin becomes brown with a definite narrow blue border. C is deep blue with a narrow irregular brownish border. A is blue, becoming brownish ~~mid~~ medially. P<sub>1</sub> is blue above, somewhat brown below. P<sub>2</sub> is blue. Eye is yellow. Motion pictures

51. Kyphosus \_\_\_\_\_ : several adults seen rubbing on rock surfaces or swimming close to them.
52. Cirrhitus rivulatus : a few seen skulking in crevices, even into surge.
57. Fistularia \_\_\_\_\_ : 1 ad. motion pictures. "Trompeta".

- 1 Squared.
60. Arbacia \_\_\_\_\_ : a few adults. Motion pictures attempted to show habits. Typically rests on smooth rocks, from horizontal to nearly vertical surfaces, just above usually water line. Often removed clamped to rock after several waves washed over it. (over)

When disturbed by dip-net or hand usually moves into water very close to rocks. Occasionally sidled up rock. Commonly escapes into water only to return to air a foot or so away. Mostly on rocks with encrusting coralline algae, which is closely watched by the pinkish lavender light area of the back. [Similar habits observed on wreck in Puerto Barrios Guatemala, in 1935.]

61. Hepatus callis umbraefasciatus:  
Different to spec.  
Common in crevices and occasionally on open rock surfaces, even into surge. Quite large here. Some adults nearly uniform in color.

Salariichthys vandorholti: fairly common. A few caught on rock surfaces above water ~~and~~ in empty barnacle shells etc. Typically stays out of water, often on top of flat boulders when just damp. Obviously have been seen since, for they usually escape into water <sup>soon</sup> on close approach.



IX: 11: 1946.

3 supplementary specimens  
speciated by "Tarzan" and  
brought in to "Zack".

~~50~~

39.

Ugareus

?

: 2 abs.

Somewhat pink on either side  
or yellow stripes. C. bright  
yellow. kept.

A parasitic isopod taken from one.

50A <sup>Scarus</sup> ~~Scorpa~~ perrico 1 (445) tank : 1

Large adult, saved. Large nuchal  
hump. Seems distinct from sp.  
taken IX:3. Teeth also blue.

Body largely pale brown brown.

Many brilliant blue streaks  
& reticulations on side of head

above & behind eye. A large  
greenish area below eye. A

fine <sup>other</sup> blue streaks on side of  
head, especially from eye to  
below mouth. Chin yellowish.

Snout bluish gray. Ventrals with  
blue or orange stripes. P<sub>1</sub> green

with blue edges. P<sub>2</sub> green with

brown inside the blue outer border.

A is blue. ~~D~~ is blue on soft

rays and on edge, but D<sub>1</sub> is largely <sup>green</sup>

yellowish inside the blue. 1 thing is  
bluish gray.