

State or Country: México Field No. 51057-190

County: Baja Calif. Norte Map: 1

Locality: Guadalupe I.; Malpomeno Cove

Lat. 28° 52' 57" N, Long. 118° 17' 30" W

Water: clear, salt

Vegetation: Sargassum, Ectocarpus, Phylloporadix, fairly dense, Coralline algae - some open patches

Bottom: rocky, with patches of sand

Cover: rocks, seaweeds, fair Temp: 19.95° at 1400

Shore: rocky Current: very little toward E

Dist. offshore: 100 ft. off rocks Stream width:

Depth of capture: top to bottom Depth of water: abt 90 ft. below ledge

Collected by: Carl H. Stubble & party on "Orca" 100 ft. lead

Tide: about high Date: X: 29: 1957

Method of capture: Photoneone and dynamite TNT (set off 2 sh)

Orig. preserv.: 10% form. Time: 0930 - 1300 2 1/2 hrs

Person in charge of limbaugh, assisted by divers Church, Stalcom, Stone, and Fleischer.

One charge of TNT just before poison was put in by divers. 2 5 gal. cans of old acetone powder and 1 gal of Pennick's emulsified 5% acetone.

Collection contains 1 - 2 qt. jar of algal little effort made to save plants; 1 small jar of shrimp; a few molluscs in shell, some taken all day before; 1 starfish 12 specimens of Octopus of 2 species preserved with fishes.

Fishes used in 1 vial; 1 - 2 qt. jar; 1 - 1 gal jar; 2 - 2 1/2 gal jars, 3 - 2 gal cans; 1 toy jar

26 Symphorax mordax: several 6 to 8 inches long, and several adults. Not killed by poison. Seen only.

35A Paralabrax clathratus: 20 yrs.-ad, preserved 9 mostly larger ones to Mexicans. 3 discarded. Mostly with more yellow than on mainland. No yr. of yr. included and none seen by divers here or at other diving stations. (were seen in abundance on previous trips according to limbaugh.)

21 (116-286)

OVER

* Collection in cludes 5 spec. taken in butterfly net by limbaugh and party on X: 28 as follows: 50. Thalassoma sp. 3; 57. Hyptisgymna delli 1; 61. Allocheilichthys 1 ad

(Cont) Apoogon guadalupensis: 6 lg. yg. - hl. gr. and 1 adult. In younger ones C. is almost black. This color extends forward, gradually weakening
7 (34-89 mm)

40. Atherinopsis californiensis ~~var.~~ var.: 4 ad.
13 (110-216)

Atherinops affinis guadalupensis: 13 hl. gr. - ad.
Many atherines were seen stunned but few could be caught.

42. Trachurus symmetricus: 124 ⁽⁹⁸⁻¹⁴⁴⁾ preserved, many left on bottom, all large yg. Yellow color on sides quite bright in life. These appeared late, presumably a school moved in to poison water. On previous day large schools seen by Simbaugh just E. of dyke. Large schools were also seen the 2 previous nights at the ship anchorage nearby. ~~2/11/62~~

Seriola dorsalis: 1 very large, estimated 30 lbs ^{seen previous day by church}
47. Brachyistius aletes: 36 hl. gr. - ad. Before poisoning the divers saw the kelp perch in veg., particularly in Sargassum. Mating behavior observed. ~~56-100 mm.~~ 16 (76-162)

47 Embiotoca jacksoni: 9 hl. gr. to ad. Before poisoning seen mostly paired with ♂ extending fins in courtship behavior
10 (125-186)

48. Pomacentrus leucurus: 1 yg. seen of same type seen elsewhere about island. Blue and yellow, with ocellus in 2nd D. length about 1 inch.

42 Decapterus sp.) 84 mm.

60B *Rimicola sila*

(124)

Gillellus semicinetus } 51027-190 am.
quadatupae } + 43 mm.

60A ♀ with greenish } 4(32-43)
Gillellus ornatus }

Dactyloscopid : 4 ad. bl. gr.

Rimicola sila : 1 sm. ad.

~~60 *Stachia* sp. : 1 yg. (18 mm)~~

61 *Starksia quadatupae* PARATYPE
1 (18)

61 *Allochilus holderi* : 115 bl. gr. - ad. +
1 taken by divers on previous day. 39-7 am.
2(58.5-59)

61A *Parachinus* ^{*integripinnis*} *zucce* : 12 bl. gr. - ad.
10(27) - 36.5

~~61 *Heterostichus rostratus quadatupae* :
14 large yg. - ad. Many barred, some
striped, none very brightly colored.~~

~~61 *Gibbonsia elegans* 29(37.5-38.5)~~

61 *Gibbonsia* ~~*novae*~~ : 32 bl. gr. - ad.
2 *montereyensis* 6(32-48)

Gibbonsia elegans eroli : 56 yg. - ad.

Rupiscartes steindachneri 9(44.5-53)

Aphobleannius sp. : 9 bl. gr.

Enneanectes cteniceps ♂ catd. 27-38.5 ^{R.S.K. Feb 59}

61B *Frappia Ennaeptygius cteniceps* (15)

Tripterygiid : 5 ads.

^{Cat} *Otophidium taylori* 1(136)

Otophidium sp. : 1 bl. gr. or sm. ad.

Ground color olive, dark above with
a considerable wash of orange on
isthmus region and lower part of head,
with a tint on the sides of the head; top of
head with wash of watery purplish.

D. and A. purplish gray along base

Ident. as
taylori
Xl. 4: 57
S.H.

(over)

nearly black outward, with almost
microscopically narrow whitish border.
Pelvis white.

64. Pleuronectes ^{ichthys coenosus} ⁽¹⁵⁸⁾
sp. nov.: 1 ad. Distinctively
colored. Color photograph by Church, et al.
11:1:57
S.L.H. Taken speared by Halcomb in rocky area.

(Carl L. Hubbs (with Laura C. Hubbs;
observations by Conrad Limbaugh).

XI:1:1957 - Some emendations in
identification - Carl L. Hubbs.

copy to Weber
K. 5. 1957

Halichoeres insularis SIO 57-190

~~Sp. 222~~ } (Ocean from Bay of
Weber, XI: 8. 1957)
+ ~~pl. 101~~ }
+ ~~pl. 102~~ }
+ ~~pl. 103~~ }
+ ~~pl. 104~~ }
+ ~~pl. 105~~ }
+ ~~pl. 106~~ }
+ ~~pl. 107~~ }
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+ ~~pl. 200~~ }

Color notes on ~~Halichoeres insularis~~ (estimated length $\frac{1}{2}$ - $\frac{2}{3}$)
[Preserved same evening with formalin specimens]

The general appearance is yellow and dark brown or blackish striped. A broad yellow stripe, estimated to be $\frac{2}{3}$ the diameter of the eye, runs the length of the body starting at the snout and running through the lower half of the eye. A second yellow stripe, estimated to be $\frac{1}{2}$ the diameter of the eye, extends from the head along the side of the back just above the eye to the tail.

The ^{width of} lateral brown stripe is much darker above and lightest in the center. In the larger individuals the anterior upper border of this stripe is steel-blue.

The dorsal stripe ^{extends} from the head along the back fading out at the caudal peduncle.

The ventral surface is ^{light} greenish, with a row of red-tipped scales separating it from the upper brown stripe.

The dorsal ^{anal} fins are greenish yellow, blending to red near the margin and edged with white.

The caudal ^{is} fins are greenish yellow blending to red on the edges.

The bases of the pelvic fins are blue-green.

(over)

The eye is greenish yellow, with a red margin around the pupil.

CONRAD LIMEAUGH

61 *Heterostichus rostratus* 12 (109-303)

61 *Gibbonsia elegans* 2 ~~44 (31-83)~~
83 (31-125)

48 (cont.) Hypsypops ~~not~~ insular: 1 brilliant yg.,
and 44 hl. gr. - ad. Many of smaller ones
retaining bright blue spots.

48 Hypsypops rubicunda 38 (34-181) ~~#34~~

48 Chromis ^{atrilobata} punctipinnis ~~subsp. n.~~ 24 (51-50.5 mm)
posterior parts yellow. Many yg. and
ad. seen on outside of reef, 10 to 100 ft.
deep, generally close to rocks.

48 Chromis punctipinnis 2 (49-92.5 mm.)

Azura heriundo: 1 yg. ^{30 mm.} transformed from
pelagic stage. Outside the dyke divers
saw many yg. to ad. generally schooling
farther off the rocks than Chromis.

Semicossyphus pulcher

50. Pimelometopon ~~pulcher~~ pulcher: 1 post-larva and
28 yg. - ad. Some yg. about 1 inch long
seen by Simbaugh. 2: 85-90 mm
19 (95-258)

50 Stalochoretes semicinctus: 20 yg. - ad.
1 or 2 about 1 inch long with striped
pattern seen by Simbaugh.

R.J.K.
Feb '59

~~8~~ 8 (126-184)

50A Oxyjulis californica: 3 yg. - hl. gr. Divers
saw considerable numbers, especially
on top of dyke. Cleaning behavior observed
by Simbaugh. ~~*10 (15.5-70.5 mm)~~ 15 (15.5-188)

XII:1:57
Taken to UCLA
by Shickling as
loan for
identification
S.L.H.

~~Thalassoma~~ Pseudojulis, new sp. [gen. from
Boyd's work
X:1:5:1957]
Thalassoma sp.: 1 hl. gr.?, 3 others S.L.H.
similar taken by divers in butterfly net.
At least 10 seen by Simbaugh just
before poisoning. Color described by Simbaugh
(see beyond)

(over)

51. Medialuna californiensis: 1 ad. collected.
Many more seen along top of dyke. 1(231)

Girella nigricans: none collected, but
seen commonly on top of ridge.

23(22-272)

53. Scorpaena guttata ~~Aquaduligae~~: 25
yg. - ad. Some larger ones remained alive.
light areas in hl. gr. varied from tan
thru orange to red. ~~total 22-69mm.~~

(one specimen lost 1 Nov. 1965) (51.5-54)

53B Scorpaenoides xyris: 2 hl. gr. 51.5-57.5mm

55. Arteidius ~~molle~~ creaseri R.R. 24.5-40.5mm
(near creaseri): 10 hl. gr. - ad.

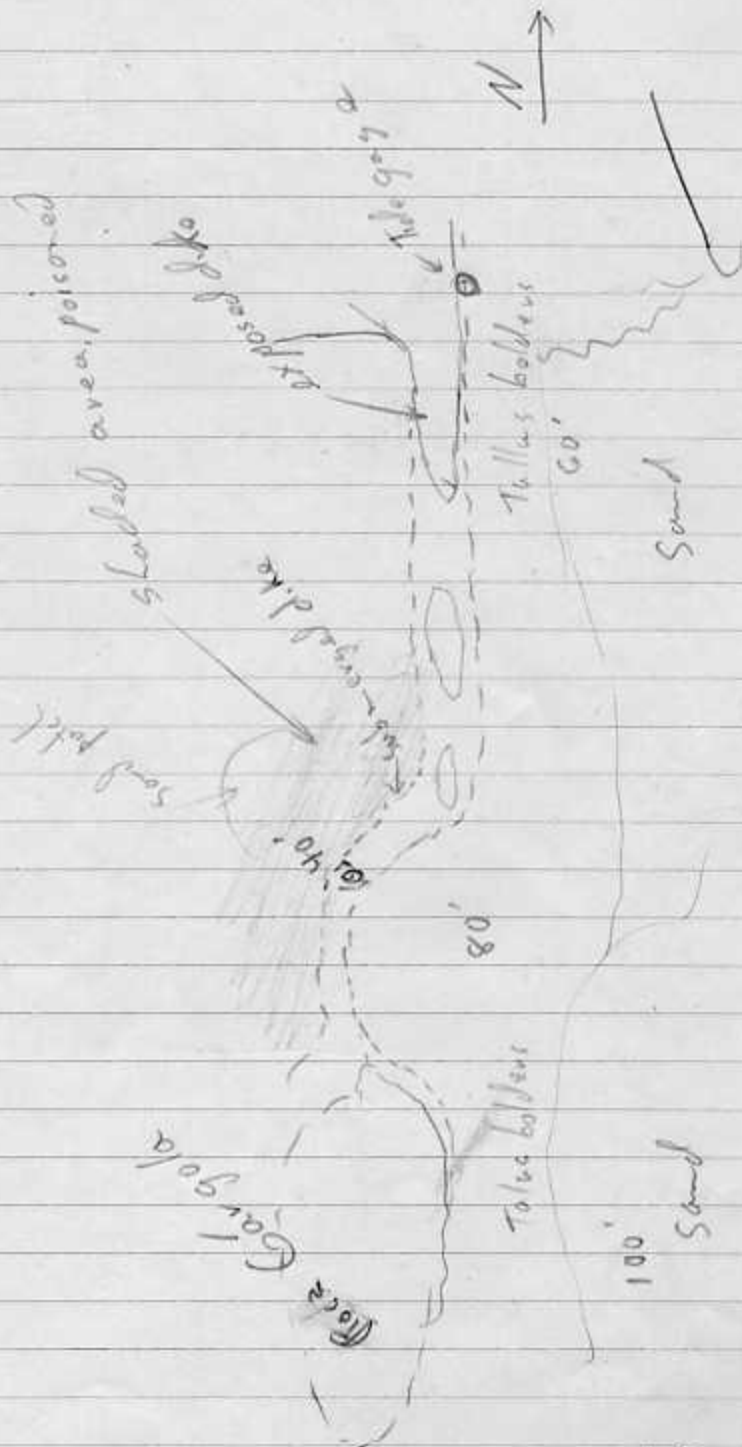
59A Lythrypnus zebra: 146 very yg. - ad.
156 ~~54~~ ~~11-35~~

59B Lythrypnus dalli: 39 very yg, almost
post-larval to ad. + 1 taken by divers
on previous day. ~~total 11-35mm~~
40 ~~29~~ (11-35)

60. Cantolatilus princeps anomalous: 5 or
6 large adults seen on previous day
outside dyke.

31-34.5mm

Gobiosoma eugrammus: 4 ad., distinctly
purplish, with pinkish spots, strong to weak,
rather definitely aligned. 3 of these
were noted about area of ~~rocks~~ ~~rocks~~ encrusted
with coral; matched background very
well. The posterior light bars washed



Sketch in field
by Conrad Wilkings