S10

Sta. No. H46-254 (1571-46)

Locality: México: Arroyo Puyegui, San José del Cabo, Baja California Sur

Lat. ° '/N.; Long. ° '/W. (USC & GS chart , 19)

Water:

Vegetation:

Bottom: Temp.:

Shore: Current:

Distance from shore: Tide:

Depth of capture: Depth of water:

Method of capture:

Collected by: ~~Dpto~~ Dir. Gen. de Pesca & Industrias Conexas Date: I:1946

Orig. preserv.: formol Time:

Presented to Carl L. Hubbs by ~~Dpto~~ Dirección General de Pesca & Industrias Conexas through Sr. Fernando de Buen, at México, D.F., IX:23:1946.

1 shrimp (to Hancock Foundation)

40(A) Agonostomus monticola (Bancroft)? — 1 hd. gr. 98mm. "Trucha o lisa"

58.(A) Hormitator latifrons (Richardson) — 1 sm. ad. "Puyegui" 89mm.

(B) Electris picta — hd. gr. "Lagunichi"

59(A) ~~Chonophorus~~ Awaous transandianus — 2 hd. gr. 51-55mm. "machuril"

VI:9:1961

Collection finally processed.
Records to W. I. Follett

Suggestions for another trip

Supplies in general adequate.
Keys list and modify.
Chief collecting means lacking was
a gun of some kind for
securing smaller fish
under water.

Dredges of course
More poison — particularly derris
(Seems to work as well as
cyanide)
Round hand net
Fine meshed dip nets
Mixed mesh gill-nets.
Improved lights for night work.

Vial supply too large.

FIELD TALLY

		Total Species	Collected	Seen only	NEW	PERHAPS NEW
G	Guadalupe Id.	24	19	5	4	6
SB	San Benito Ids.	20	14	6	2	1
C	Cedros Id.	15	15	—	—	—
S	Socorro Id.	~~32~~ 31	~~14~~ 13	18	?	?
S-A	Between Socorro Id and Acapulco	1	1	—	—	—
A	Acapulco	159 ~~160~~	~~146~~ 145	11	sev.	sev.
	Alvarado	1	1	—	—	—
	Puyegui	4	4	—	—	—
	San Diego to Guadalupe	2	0	2	—	—
	Total (without dupl.)	~~231~~ 230 231	~~201~~ 200 201	30	6+10?	15?

FIELD TALLY OF FISHES
COLLECTED ON THE
ZACA EXPEDITION, 1946

Earl L. Hubbs

A = Acapulco and vicinity
H46-229 to 252
(1547 to 1569 -46)

C = Cedros Island
H46-215 to 216
(1533 to 1534 -46)

G = Guadalupe Island
H46-200 to 203
(1518 to 1521 -46)

S = Socorro Island
H46-
(to -46)

SB = San Benito Islands
H46-
(to -46)

SB-A = Between Socorro Id and Acapulco
H46-
(to -46)

Alvarado = Laguna to Alvarado, V.C.
H46-253 (1570-46)

Puyequi = Arroyo Puyequi, Baja Calif.
H46-254 (1571-46)

LIST OF SPECIES

5

Ginglymostomatidae

Ginglymostoma cirratum A

Galeidae

Carcharhinus platyrhynchus S
Carcharhinus A
Galeorhinus zyopterus (SB)

Sphyrnidae

Sphyrna zygaena ? (A)

6

Dasyatidae

Urobatis halleri C

Aetobatidae

Holorhinus californicus (G)

Mobulidae

Manta hamiltoni (A), (G), (S)

8

Albulidae

Albula vulpes A

Clupeidae

Sardinops caerulea C, SB
Harengula thrissina A
Lile stolifera A
Opisthonema libertate A
Opisthopterus NEW SP? A
? _____ _____ postlarval S

Engraulididae

Allengraulis mordax mordax C, G
Anchoviella _____ A
Anchoa schofieldi _____ A

12.

Characinidae

Astyanax fasciatus aeneus A

17

Ariidae

_____ _____ A

23

Belonidae

Tylosurus exilis C
Tylosurus _____ A
Tylosurus stolzmanni S
Ablennes hians A

Scomberesocidae

Cololabis saira SB

Hemiramphidae

Hyporhamphus _____ A
? Hyporhamphus _____ A

Exocoetidae

Fodiator acutus pacificus A
Exocoetus _____ S+A
Cypselurus callopterus S
Cypselurus heterpsi ? S
Cypselurus californicus SB (S D t G) (G t SB)
? Prognichthys _____ A

26

Muraenidae

Muraena lentiginosa A
Gymnothorax moldax G, SB
Gymnothorax _____ A
Gymnothorax _____ A
? Uropterygius _____ A
? Echidna _____ A

27

Poeciliidae

Poeciliopsis fasciata ? A
Poeciliopsis _____ A
Mollienisia sphenops _____ A

~~32~~ 31

Holocentridae

Myripristis occidentalis A
Holocentrus suborbitalis A

32

Chaetodontidae

Chaetodon _____ (?) S
Chaetodon nigrirostris A
Chaetodon humeralis A
Forcipiger longirostris S
_____ _____ ? [Prionichthys] S
Holacanthus passer A

33

Acanthuridae

Acanthurus triostegus S, - A ?
Acanthurus crestonis A
Acanthurus aliala S
Xesurus punctatus A
Xesurus clarionis S

34

Balistidae

_____ _____ A
_____ _____ S

Monacanthidae

_____ _____ A
_____ _____ S

Tetraodontidae

Sphoeroides annulatus A
Tetraodon setosus A, S

Diodontidae

Diodon _____ A

Molidae

Mola mola (San Diego to Guadalupe)

35 Kuhliidae

Kuhlia taeniura arge S

Apogonidae

Apogon retrosella A

Centropomidae

Centropomus viridis A
Centropomus robalito A

Serranidae

Stereolepis gigas (SB)
Epinephelus labriformis A
Epinephelus _____ A
Epinephelus _____ A
Epinephelus _____ A from bank
Epinephelus _____ A at wreck
Dermatolepis punctatus A Not "Olyprion"

over

_____	_____	A	Not "Lebrancha"
Rypticus	_____	A	
Paralabrax	clathratus	C, G, SB	
Paralabrax	NEW SP.??	SB	

38

Lutianidae

Lutianus	_____	A	"flamingo"
Lutianus	_____	A	"pargo"
Lutianus	_____	A	"pargo de piedra"
Lutianus	colorado	A	idat.+disc.

39

Mullidae

? Upeneus	_____	A	
? Upeneus	_____	(4)	
? Upeneus	_____?	(S)	

40.

Atherinidae

Melaniris	_____	A	
Eurystole	eriarcha (?)	S	
Eurystole	NEW SP	A	
Leuresthes	tenuis	C	
Atherinopsis	californiensis	sonora	C
Atherinopsis	_____	NEW?	G
Atherinops	affinis	(teno) littoralis	C
Atherinops	affinis	cedrosensis	
Atherinops affinis, new subsp.		C, SB	
Atherinops	affinis	guadalupae	G

Mugilidae

Mugil _____ A
Mugil curema _____ A
~~Mugil thoburni _____ S~~
Chaenomugil proboscideus A
Agonostomus _____ A, Pugaqui
~~Agonostomus~~ nasutus A

Sphyraenidae

Sphyraena ensis A
Sphyraena argentea C

Polynemidae

Polydactylus approximans A
~~Polydactylus opercularis A~~

41

Gerridae

Gerres similimus A
Eucinostomus argenteus A
Eucinostomus gracilis A
Diapterus peruanus A

42

Carangidae

Oligoplites saurus A
Oligoplites altus A
Selida dorsalis C, G

Decapterus _____ G
Trachurus symmetricus G, SB
Selar crumenophthalmus A
Caranx vinctus A cocinera
Caranx caninus A jurel
Caranx _____ A
Caranx _____ A
Caranx lugubris S
Vomer declivifrons A
Trachinotus rhodopus A
Nematistius pectoralis A
Zaloccys stilbe S

~~Remoras~~

Echeneidae

Rhombochirus osteochir A

43

Scombridae

Prematopthorus _____ (A)

Cybiidae

Scomberomorus concolor? A
Scomberomorus maculatus A
Acanthocybium solandri (S)

Thunnidae

Katsuwonus pelamis (A)
Euthynnus lineatus S

Istiophoridae

Makaira nigricans (A)
Istiophorus _____ (A)

44

Haemulidae

_____ _____ A roncoblanco
Haemulon? _____ A
" _____ A
" _____ A
" _____ A
Anisotremus davidsonii C

45

Sciaenidae

Umbrina roncador C
Umbrina _____ A
Eques NEW SP.? A

48

Pomacentridae

Chromis punctipinnis (G), (SB)
Chromis atrilobatus A
Pomacentrus rectifraenum A
Pomacentrus flavilatus A
Abudefduf saxatilis A, (S)
Abudefduf declivifrons A
Microspathodon dorsalis A, (S)
Hypsypops rubicundus G, (SB) 2500?
Pomacentrus _____ (S)
Pomacentrus flavilatus (S)

"Pomacentrus"

49

Cichlidae

Cichlasoma _____ A

50

Labridae

Harpe diplotaenia A "Bodianus"
Pimelometopon pulchrum G, SB
Julidio Halichoeres notospilus A
Oxyjulis californica G, SB
Thalassoma lucasanum A
Thalassoma caeruleomarginata A

Scaridae

~~Pseudoscarus~~ ~~Cryptotomus~~ NEW SP. A
Pseudoscarus _____ A
Pseudoscarus perrico A with hump

On is Scarops jordani 51 f. Schultz VIII.6.'56

Girellidae

Girella nigricans G, SB

Kyphosidae

Kyphosus _____ A
Hermosilla azurea C

Scorpididae (?)

Medialuna californiensis G, SB

52

Cirrhitidae

Cirrhitus rivulatus A, (S)

53

Scorpaenidae

Scorpaenodes xyris A

Scorpaenodes PSEUDUMMUS G (new sp.)

Scalysaena _____ A

Scorpaena guadalupae G

58

Cottidae

Clinocottus analis australis G, SB

57

Fistulariidae

Fistularia _____ A

Synganthidae

_____ _____ (A)

Hippocampus huldebrandi A

58

Electridae

Hormitator latipons A, Puyegui

Hormitator maculatus - Alvarado

Electris picta - Puyegui

Philypnus Gobiomorus lateralis - A

_____ _____ A Zebra-marked

59

Gobiidae

Bathygobius soporator A, (S)
Gobionellus _____ A
Lythrypnus _____ G New? near zebra
Lychrypnus _____ G new? near dalli
Chonophorus taiasica transandeanus
A, Pugetti
~~Bollmannia~~ _____ A
_____ _____ A H46-244
_____ _____ A Portland
? Cotylopus _____ A

60. Branchiostegidae

Caulolatilus princeps SB

Gobiesocidae

~~Gobiesox~~ Arcos poecilophthalmus _____ A
Cotylis woodsi _____ A
Arbacia petersii _____ A
Arbacia _____ los? or n sp A

Dactyloscopidae

_____ _____ A
_____ _____ A
_____ _____ A
_____ _____ A
_____ _____ A
_____ _____ A
_____ _____ A

New genus new species A

61

Clinidae

Starksia cremnobates A

Labrisomus ~~xanticus~~ new. A

Malacoctenus zonifer A

Malacoctenus ____ A Small bright lib. Pt. Camarin

~~Malacoctenus~~ labrisomus ____ A

Malacoctenus ____ A

Malacoctenus ____ A

Paraclinus mexicanus ____ A new?

Paraclinus ____ A NEW

~~Paraclinus~~ zacae new sp G

Gibbonsia ____ SB new, near elegans

Gibbonsia erroli G NEW SP

Gibbonsia norae G NEW SP

Heterostichus rostratus C, (SB)

~~Enneapterygius~~ carminalis A

~~Enneapterygius~~ ____

Blenniidae

Cynoscartes atlanticus

~~Hepatoscartes sumbrifasciatus~~ A, (S??)

Salariichthys vanderbilti A

Blennioclus brevipinnis A

?? ____ ____ ? (S)

Petroscirtes azalea A

Ophioblennius ____ A

Ophioblennius ____ S

~~Family ?~~

Emblemariidae

?/Emblemaria _____ A

~~Neogonias~~ Acanthemblemaria _____ A

~~Parastathmonotus~~ n. g. _____ A Elongate

~~Emblemaria~~ _____ A Elongate?

Brotulidae

Ogilbia ventralis A

Ogilbia _____ A

64

Bythitidae

Cataricichthys gilberti A

Achiridae

Achirus _____ A

65

Antennariidae

Antennarius _____ A