

State or Country: California Field No. H 51-347
County: San Diego Map: 1
Locality: Point Loma kelp bed "Bed No 3, Radio Bed"
Outer part of bed about opposite Radio Towers
Lat. N, Long. W.
Water: mod. clear
Vegetation: in Macrocystis pyrifera bed; some floating
Pelagophycus and Phyllospadix mixed in
Bottom: rocky
Cover: Temp:
Shore: rocky cliffs Current:
Dist. offshore: Stream width:
Depth of capture: Surface 3 ft. Depth of water: 11 fath. (ann. reading)
Collected by Carl L. Hubbs, Conrad Limbaugh & party on "El Ray"
Tide: Kelp cutter of Kelco Co. Date: X: 9: 1951
Method of capture: kelp harvester
Orig. preserv.: 10% formalin Time: 0930 - 1230 P.S.T.
OCT 9 1951

Trip arranged to take out Messrs DeWitt
and McNally of Ocean Fish Protective Assoc.

35. Paralabrax clathratus: bl. gr. - ad. fairly
common about canopy; some very large; some
in groups; readily escaped cutter by
sounding.
40. Atherinops californicus: adults
moderately common
in openings, singly and in small
schools.
- Atherinops affinis californicus: 1 yg. under
roller, yg. to ad. abundant, mostly in small
schools, ~~not~~ in openings. (29)
(68-75)
47. Brachyistius frenatus: 2 ad. ♀ under roller
Fairly common about kelp canopy.
- Damalichthys vacca: 1 ad. seen by Limbaugh,
about 10 ft. down.
56. Oxyjulis californica: none onto cutter;
bl. gr. - ad. common, mostly in schools,
about kelp & in openings; in part
schooling with Atherinops
51. Girella nigricans: several ad. seen by
Limbaugh
(over)

(over)

51. Mediastina californiensis: several small groups of adults seen by Limbaugh.

55. Scorpaenichthys marmoratus: 1 ad. about 15 inches long swimming leisurely about 3 feet below surface; moved sideward to escape cutter.

57. Syngnathus californiensis: 9 hl.-gr.-ad. caught below roller and in bin; a few others seen. Some large. 2 kept alive for Aquarium.

7(151-381)

60. Rimicola ~~seignemansi~~ muscarum → 9(18-27): 1 batch of eggs on medium-sized Macrocyrtis frond, in irregular group; in early stage. 11 hl.-gr.-ad.; 5 kept alive. Several with weak to strong light cross saddle; when strong on body, top of head light with + shaped mark (irregular). Below roller. Eggs kept alive for study by Macdonald.

61. Heterostichus ^{v.} rostratus: 2 lg. yg. + 1 hl.-gr., a few others seen, but no adults - in bin & below roller. 3(54-123)

61 Gibsonia netzi: 1 hl.-gr. (66)

Utricola sanctae-rosae: 1 small adult taken in bin, possibly same as one seen earlier; kept alive for Aquarium.

(Notes prepared with aid of Limbaugh)

Carl L. Hubbs.