Sta. No.)+48-252

Locality: Calif: Kalp bed off La Jolla, from off Caves to beyond Casa Mañana

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

Water:

Vegetation: Kalp bed

Bottom: Temp.:

Shore: Current:

Distance from shore: 100 yds to 1/2 mile Tide: 10'-60'

Depth of capture: surface Depth of water: about ~~20-30~~'

Method of capture: dip net, at light on buoy beat

Collected by: Carl L. + Laura C. Hubbs, and Boyd Walker Date: X: 1: 1948

Orig. preserv.: 10% form. Time: 8- 11:45 P.M.

notes by B.W.W. — notes on species not complete

40 Atherinops affinis cedrosensis ~~Leuresthes tenuis~~ - large series 49 taken

~~Small Leuresthes~~ (about 2" long) were in tremendous numbers in kelp bed. Concentration was about one per square foot - and in some places three or four per square foot. There were also a fair number of yg on shore side of kelp bed, but these were none observed on ocean side of kelp outside of bed. The change was very abrupt - large numbers up to edge of kelp - + none outside (slight transition) When spot light thrown on water these small fish could be seen jumping as far as light carried. We cruised through large area of bed - and Leuresthes were everywhere in bed. Atherinops affinis cedrosensis - Adults in large numbers in and on shore side of kelp beds. - some spawning X

Fish Data Sheet—1m-8,'46 (9814s) 97

8. En *Atherngraulis* *m. mordax* – 2 post. larvae

23. *Tylosurus exilis*: a few ads. seen between rocks & kelp, at surface.

23. *Cypselurus californicus*:

1 ad. ♀, rigs, 35 cm. S.L.

6 ad. ♂s, rigs, 29.5, 29.5, 31, 31, 31.5, 32 cm. S.L.

40 - cont.

Leuresthes tenuis - 2 ♀♀. dried, discarded Oct '62 DMR

40A *Atherinopsis californiensis* - 1 ♀ of year. (77.5)