

State or Country: California Field No. H53-154
County: San Diego Map: 1
Locality: La Jolla - Surfers Station Pier
Lat. _____ N., Long. _____ W.
Water: clear
Vegetation: none except a little floating kelp
Bottom: sand
Cover: none Temp.: _____
Shore: sand Current: rather low surf
Dist. offshore: to 200 yds Stream width: _____
Depth of capture: near bottom Depth of water: 5 to 10-12 feet
Collected by: Spaul H. Hubbs (with John E. Fitch & Earl S. Herald)
Tide: medium Date: VII:10:1953
Method of capture: observation only
Orig. preserv.: _____ Time: mid-day

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5. Triakis semifasciata: several large
~~alone~~ adults cruising bottom.
6. Rhinobatos productus: as for several
days past (once seen by me,
several times reported), large
adults seen, numerous, in part
in groups (see abs 1453-109).
46. Umbina roncadore: Several pairs seen
in what appeared to be spawning
behavior, plus one group of 6 that
~~seemed to be spawning~~ that seemed to
comprise 3 pairs. Identification
seemed reasonably certain although
water was a little murky and we
didn't use binoculars. Yellow pinks
visible. No basipetoral spots seen.
Too large for Sargassum. In each
pair one fish usually a little
smaller kept following the
other very closely. One pair was watched
in greatest detail, as it swam
perhaps 10 feet from water to 12 feet
below the surf in water about 8 feet
over

deep, then turned out to deep water again. The smaller one kept alongside + slightly behind the middle of the other one. It seemed to act like a breeding ♂, frequently nudging the other (♀) in the abdomen, and for nearly the whole time (15 min.?) keeping its nose close to the ♀. Only once, when both squirmed outward about 15' as a wave broke just beyond them, did the 2 separate a short sudden movement, and they regained the pairing position after the flight reaction. Several times the female turned ablytes on her side, creating a bright flash. A number of such flashes were seen on or near the surf, both N and S of pier.

On returning to the pier on the next day (July 11) and on July 15, all fish had cleared out from the surf region.

(This note a Umbra copied for C.S.F.L., Boyd W. Walker, and David Joseph).

Carl L. Hubbs