

State of California - The Resources Agency
Department of Fish and Game
Marine Resources Region
Long Beach, California

CRUISE REPORT 73-KB-16

BIG GAME FISH INVESTIGATIONS

Prepared by R. A. Collins'

Vessel R/V KELP BASS

Dates: July 5-13, 1973

Locality: Nearshore waters of southern California

Purpose: 1. To capture, tag, and release Pacific bonito, *Sarda chiliensis*, and California barracuda, *Sphyræna argentea*.

2. To collect Pacific bonito, California barracuda, white seabass, *Cynoscion nobilis*, and California yellowtail, *Seriola dorsalis*, for population identification studies.

3. To make incidental collections as requested by other programs

Procedure: Trolling with feather and "Hexhead" lures was conducted during daylight hours. Angling with live-bait and lures was conducted each morning and evening while the vessel was at anchor. A night light was displayed each night to attract juvenile and larval fish. Surface water temperatures were regularly recorded

Results: Biologists tagged and released 85 Pacific bonito in waters between Dana Point and La Jolla. A total of 286 California barracuda were tagged and released offshore from the Encina Power Plant site south of Carlsbad, California.

Biologists also captured 5 sublegal length white seabass of which 3 were tagged and released and 2 kept for examination.

Surface water temperatures recorded ranged from 66F recorded off Point Loma to 70F recorded while in the influence of the warm-water discharge from the Encina Power Plant.

Personnal: Marco Mazarovich, Vessel Captain
Robson Collins, Biologist-in-charge July 5-11
Donald Schultz, Biologist-in-charge July 11-13
Gail Campbell, Biologist
Dennis henley, Seasonal Aid July 5-11
Kevin Farnum, Seasonal Aid July 11-13