

State of California
The Resources Agency
Department of Fish and Game
Marine Resources Operations
California State Fisheries Laboratory
Terminal Island, California

Cruise Report 66-S-1
Prepared by Herbert W. Frey

Vessel: N. B. SCOFIELD

Dates: Depart from Los Angeles Harbor, February 10, 1966
and return February 24, 1966.

Locality: The southern California Channel Islands and offshore along the
coast of Baja California.

Purpose: 1. To collect eye lenses and blood smears from different fish
species captured at widely separated locations.
2. To obtain pathological specimens, especially tumors, from
marine species.

Results: Eye lenses were taken from 36 species caught at 15 locations.
These will be analyzed electrophoretically to determine the
characteristics of their protein composition. This information
will be used in identifying genetically-distinct populations
and in studying phylogenetic relationships. This material will
be added to our permanent reference collection.

A series of four blood smears was taken from 20 species of fish.
They will be used in hematological studies of different taxonomic
groups.

A suspect melanistic sarcoma was collected from a bocaccio
(Sebastes paucispinus).

Personnel: Richard B. Mitchell, CDFG, Vessel Captain
Herbert W. Frey, CDFG, Biologist in Charge
Albert C. Smith, University of California at Irvine
George Sardina, University of Southern California Medical School

LIST OF SPECIES

Common name	Scientific name	Blood smear
Soupfin shark	<u>Galeorhinus zyopterus</u>	X
Spiny dogfish	<u>Squalus acanthias</u>	
Kelp bass	<u>Paralabrax clathratus</u>	X
Sand bass	<u>Paralabrax nebulifer</u>	
Giant sea bass	<u>Stereolepis gigas</u>	X
Ocean whitefish	<u>Caulolatilus princeps</u>	X
Mexican scad	<u>Decapterus hypodus</u>	X
White croaker	<u>Genyonemus lineatus</u>	X
Rock wrasse	<u>Halichoeres semicinctus</u>	X
Sendorita	<u>Oxyjulis californica</u>	
California sheephead	<u>Pimelometopon pulchrum</u>	X
Sculpin	<u>Scorpaena guttata</u>	X
Kelp rockfish	<u>Sebastes atrovirens</u>	
Gopher rockfish	<u>S. carnatus</u>	
Greenspotted rockfish	<u>S. chlorostictus</u>	X
Starry rockfish	<u>S. constellatus</u>	
Greenstriped rockfish	<u>S. elongatus</u>	
Yellowtail rockfish	<u>S. flavidus</u>	X
Rosethorn rockfish	<u>S. helvomaculatus</u>	X
Mexican rockfish	<u>S. macdonaldi</u>	X
Vermilion rockfish	<u>S. miniatus</u>	
Blue rockfish	<u>S. mystinus</u>	X
Speckled rockfish	<u>S. ovalis</u>	X
Bocaccio	<u>S. paucispinis</u>	
Chamelion rockfish	<u>S. phillipsi</u>	
Canary rockfish	<u>S. pinniger</u>	
Rosy rockfish	<u>S. rosaceus</u>	
Flag rockfish	<u>S. rubrivinctus</u>	X
Olive rockfish	<u>S. serranooides</u>	X
Treefish	<u>S. serriceps</u>	X
Honeycomb rockfish	<u>S. umbrosus</u>	
Whitebelly rockfish	<u>S. vexillaris (caurinus)</u>	
Pacific sanddab	<u>Citharichthys sordidus</u>	
Longfin sanddab	<u>Citharichthys xanthostigma</u>	X
Scaley-fin sole	<u>Isopsetta isolepsis</u>	
Rock sole	<u>Lepidopsetta bilineata</u>	X

