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

CRUISE REPORT 70-S-1 BOTTOMFISH  

Prepared by L. F. Quirollo  

Vessel:  
N. B. SCOFIELD.  

Dates:  
Departed San Pedro January 5, 1970.  

Locality:  
Northern California from Cape Mendocino to Crescent City.  

Objectives:  
To obtain population parameter estimates of Dover sole,  
Microstomus pacificus, in the Eureka area by:  

a. Tagging, following a systematic random sampling scheme, to  
obtain fishing mortality estimates.  

b. Collecting age composition data from pre-fishery recruits  
to obtain estimates of natural mortality.  

c. Collecting age-length and age-weight data for von Bertalanffy  
growth estimates.  

Operations:  
Trawling stations were selected along six transects (Figure 1)  
at 20-minute latitude lines between Cape Mendocino and Cape  
Sebastian. The first station on each transect was randomly  
selected between 5 and 25 fathoms with the remaining stations  
spaced at 3 mile intervals to 1,000 fathoms. In all, 68 sta­  
tions were established.  

Results:  
Since inclement weather prevailed throughout the cruise, only  
three 30-minute tows (Figure 1) were completed. Trawls were  
completed in 40, 50, and 80 fathoms. No Dover sole were captured.  
Representative samples of all fishes and invertebrates were  
collected from all tows.  

Personnel:  
R. B. Mitchell, Vessel Captain  
L. F. Quirollo, Biologist-in-charge  
R. Nitsos, Biologist  
L. Barker, Jr., Seasonal Aid  
N. Nelson, Biologist - January 28  

MRR-TI/150  
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Figure 1

- Cape Sebastian
- Oregon
- Pt. St. George
- Trinidad Head
- Eureka

Trawling Transect
Trawling Station X