

*Donna Kline*

Southwest Fisheries Science Center  
P. O. Box 271  
La Jolla, CA 92038

July 29, 1991      F/SWC:JLB

CRUISE ANNOUNCEMENT

VESSEL:            NOAA R/V David Starr Jordan, DS91-08(238).

CRUISE DATES:    September 10 - 19, 1991.

PROJECT:           Groundfish Survey Cruise, Coastal Fisheries  
Division, SWFSC - La Jolla CA.

ITINERARY:        Embark scientists in San Francisco, CA on September  
10. Transit to station locations off Santa Cruz,  
CA and conduct bottom trawl survey. Trawls will be  
performed at 8 sites (see attached Fig. 1) and will  
be worked up as per standard RACE procedures.  
Return to Monterey on September 18 and disembark  
scientists and return to San Diego.

OBJECTIVES:      1. To collect bottom trawl data to study the  
distribution of deep slope groundfish species and  
for comparison with visual transect data obtained  
in cooperation with Monterey Bay Aquarium Research  
Institute's (MBARI) remotely operated vehicle  
(ROV).

2. Tissue samples will be taken from target  
species for analysis of biochemical adaptation to  
the slope environment, in particular the oxygen  
minimum.

3. Stomach samples of target species will be taken  
as per attached protocol.

4. To collect thornyhead otoliths for  
radiochemical analysis.

5. To tag lingcod and inject with oxytetracycline  
when recovered in good physical shape.

6 As per Project Instructions: SP-PMC-2-89, to  
record sea turtle observations.

7 Collect live specimens for rearing and spawning  
in the laboratory.



PROCEDURES:

1. Bottom trawl will be conducted with modified Aberdeen trawl at assigned stations (Table 1). The trawl catches will be worked up per standard RACE procedures. Stomach samples will be taken as per attached protocol. A CTD cast will be made to 1000m (bottom permitting).
2. On the return to San Diego several bottom trawls will be taken to collect live Dover sole, longspine thornyhead and shortspine thornyhead for addition to SWFSC's broodstock.

EQUIPMENT:

1. Supplied by scientific party  
Modified 75/90 "Poly-Aberdeen" bottom trawl  
Two 5'x7' steel trawl doors  
Fish shovels  
Sorting table  
-80 Freezer  
Fiberglass bait tank and steel pallet  
Oxygen bottle  
Regrigeration units  
Pumps and sea water filters  
Preservation and processing materials  
Trawl data sheets  
Measuring boards  
fish baskets  
300 lb platform balance  
CTD and rosette
2. Supplied by R/V David Starr Jordan  
Combo winch with 5/8" cable  
Net reel  
Trawl stanchions with trawl blocks  
Simrad EK-400 echosounder and paper  
Epsco Loran-C plotter and paper  
12 Khz Raytheon precision depth recorder with paper  
Choker winch

MISCELLANEOUS:

1. The disposal of all fish caught will be in accordance with NOAA Adminstrative order 202-735B dated January 25, 1989.
2. The Chief Scientist will hold a pre-cruise meeting aboard the vessel prior to departure.
3. At the completion of the cruise an inspection will be made of all scientific working and berthing spaces by the Commanding Officer or his designated representative. The scientific party is responsible for the condition and cleanliness of all spaces assigned to the scientific party.
4. NOAA Fleet Medical Policy requires that all scientific personnell embarking on MOAA vessels



complete an SF-93 form, Report of Medical History.

5. All dates and times recorded will be in Pacific Standard Time. All ship's clocks will be set to PST prior to departure from MARFAC, San Diego.

PERSONNEL: John Butler, Ch Sci, SWFSC, La Jolla, CA\*  
Peter Adams, Watch Leader SWFSC, Tiburon, CA\*\*  
Ron Dotson, Watch Leader, SWFSC, La Jolla, CA\*  
Tom Laidig, SWFSC, Tiburon, CA\*\*  
Kelly Silberberg, SWFSC, Tiburon, CA\*\*  
Kathy Dahlin, SWFSC, La Jolla, CA\*  
Eric Lynn, SWFSC, La Jolla, CA\*  
Russell Vetter, SWFSC, La Jolla, CA\*  
Ed Goolish, NRC, La Jolla, CA  
Sean Costa, SWFSC, La Jolla, CA\*  
Donna Kline, Moss Landing Marine Laboratory

NMFS personnel authorized per diem at the rate of \$2.00 per day to be paid via the Imprest Fund on a Travel Roll Voucher at the Termination of the cruise.

WATCH HOURS: 0800-1630 Butler and Vetter

0000-1159 All Others  
1200-2359

OVERTIME: 399

NIGHT DIFF: 424

Charge to account #8L1A6AH0\*  
#8L1A3AP0\*\*

Date:

July 29, 1991

Prepared by:

John L. Butler  
John L. Butler

Approved by:

Isadore Barrett  
Isadore Barrett, Director  
SWFSC, NMFS

Desired Station

Site #1 - Low relief bottom (100 m) 9940 X 27434, 9940 Y 42846.3 to 9940 X 27428.1, 9940 Y 42851.6.

Site #2 - Low relief bottom (200 m) X 27416.6, Y 42853.6 to X 27414.1, Y 42858.

Site #3 - Low relief bottom (400 m) X27438.3, Y 42827.3 to X27433.5, Y 42829.6.

Site #4 - Low relief bottom (600 m) X 27416.0, Y 42830.5 to X 27410.5, Y 42835.9.

Site #5 - Low relief bottom (800 m) X 27410.1, Y 42827.8 to X 27402.6, Y 42837.5.

Site #6 - Low relief bottom (1000 m) X 27411.4.5, Y 42820.6 to X 27401.4, Y 42829.9.

Site #7 - Low relief bottom (1200 m) X 27405.2, Y 42815.0 to X 27398.4, Y 42824.6.

Site #8 - Low relief bottom (1400 m) X 27394.1, Y 42821.0 to X 27390.1, Y 42833.4.