

CSIRO Marine Laboratories
Division of Fisheries Research

Cruise Plan

SS 4/91

1991 Research Vessel Programme

Programme: R.V. Southern Surveyor, Cruise 4/91

Staff

W. Whitelaw (Scientist-in-charge)	leg 1	leg 2
R.Campbell	leg 1	leg 2
J.Cordell	leg 1	leg 2
C. Stanley	leg 1	leg 2
D.Cherry	leg 1	leg 2
K Souris	leg 1	leg 2
J.Lloyd (NT Fisheries)	leg 1	
B.Ward	leg 1	
WA Uni.	leg 1?	
AN Other	leg 1?	
C. Liron		leg 2
N.Elliott		leg 2
A.Coleman (NT Fisheries)		leg 2
D.Ramm (NT Fisheries)		leg 2
T.Hay (Int. Food Inst. QLD)		leg 2?

Duration

Depart Geraldton 0800 h (WST) 12 September (Thur) 1991

Refuel Port Hedland 0600-1800h 26 September (Thur) 1991

Arrive Broome 0600 h 10 October (Thu) 1991

Locality

The Northwest Shelf study area, encompassing the three experimental management zones (see attached chart).

Aims

1. Determine the composition of the demersal fish community and the distribution and abundance of demersal habitats (based on epibenthic fauna)

in each of the three experimental management zones.

2. Collect data and samples from which the basic population parameters (recruitment, growth and mortality) can be measured.
3. Conduct SDL/CTD transects (see attached chart).
4. To obtain taxonomic specimens and photos of N.W. shelf fish species.

Plan

It is anticipated that the first 2 days will be spent setting up the labs and familiarizing the crew and scientists with the fishing gear and operations of the vessel as it steams.

Sampling stations for the first two aims are chosen according to a stratified random design, with 44 stations in the eastern zone, 41 in the middle zone and 20 in the western zone.

The vessel will leave Geraldton and commence work in the western section of the study area, working both the shallower and deeper random stations in a easterly direction. The vessel will then put into Pt. Hedland on 26 Sept. for refuelling and scientist transfer. After refuelling the remainder of the random stations will be completed.

The SDL transects will be completed as time and location within the study area permits. The westerly and central one probably being completed in the first leg and the eastern transect being completed on the second leg.

The cruise will terminate in Broome on 10 Oct. 1991.

W. T. H. H. H.

(Scientists-in-charge)

16/8/91

(Date)

Initialed

JG 19/8/91

Distribution

Normal distribution

Cruise participants

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Staff

W. Whitelaw ✓ (Scientist-in-charge)

R. Campbell ✓

J. Cordell ✓

C. Stanley ✓

D. Cherry ✓

K. Souris ✓

Sjaak Lemmen

~~B. Ward~~

K. Colgan (BRR)

A. Smart ✓

N. Elliott ✓✓

A. Coleman (NT Fisheries)

Duration

Depart Geraldton 0800 h (WST) 12 September (Thur) 1991

Arrive Broome 0600 h 05 October (Sat) 1991

Locality

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