R.V. FRANKLIN

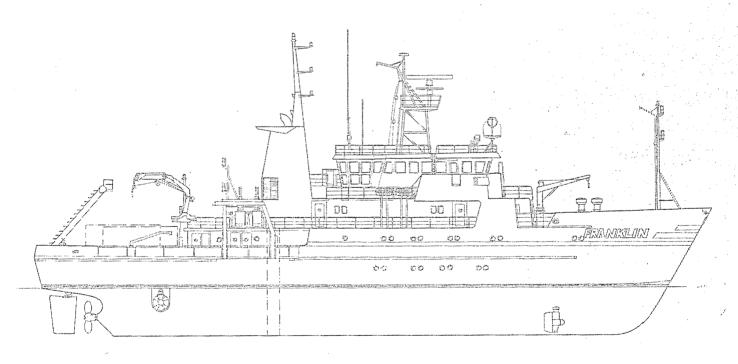
NATIONAL FACILITY OCEANOGRAPHIC RESEARCH VESSEL

REVISED

CRUISE PLAN

R.V. 'FRANKLIN'

FR 8/87



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R.V. FRANKLIN IS OWNED AND OPERATED BY CSIRO

BFP/NP

7 August 1987

REVISED CRUISE PLAN R.V. 'FRANKLIN' FR 8/87

ITINERARY

Depart Fremantle:

1600 hrs

26 August 1987

Arrive Fremantle:

1800 hrs

10 September 1987

SCIENTIFIC PROGRAM

1. Ecology of the late stage phyllosoma larvae and puerulus stage of the western rock lobster.

- 2. Satellite sea surface temperature validation.
- 3. Collection of larval fish, particularly tuna.

PRINCIPAL INVESTIGATOR

- 1. Dr B.F. Phillips
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- 2. Dr J.D. Penrose
 Dr M.J. Lynch
 Centre for Marine Science and Technology
 Curtin University
 Kent Street
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CRUISE OBJECTIVES

- 1a. Collect plankton samples over 48 hours at three selected stations using a surface net and with the EZ sampler.
- 1b. Collect associated data on light levels, temperature salinity, through the water column in which the samples are collected (in the upper 400 m off the continental shelf and from surface to the bottom on the shelf).

- 1c. Measure water currents from surface to maximum sampling depth in area of sampling.
- ld. To make evaluation of distribution of potential food materials (oceanic particulate) for Phyllosoma in the water column.
- 2. Make measurements of surface and near surface water temperatures using a thermistor array. Measurements of wind speed, humidity and air temperature (ship's sensors). Radiometer measurements of the sea surface: infra-red signature. Radiosonde releases may be undertaken.

CRUISE TRACK

The ship will steam to an area to the south of the Abrolhos Island and then make a cross-shelf transect of the Leeuwin Current. The sampling stations will be made outside, within and on the shelf inside the Leeuwin Current. If rough weather occurs the ship will shelter in the lee of the Abrolhos Islands.

O.R.V. EQUIPMENT

Navigation
EZ Net (Real time mode)
CTD
Rosette sampler
Towing winch
Biological container
Thermosalinograph
Instrumental towing block (with tension)
Doppler Profiler

EQUIPMENT PROVIDED BY USERS

Sample bottles
Preservative
Demountable boom
Towed thermistor, radiometers and data acquisition system
Radiosonde release facility and conditioning cabinet (possibly)

PERSONNEL

CSIRO Division of Fisheries Research

- B. Phillips (Chief Scientist)
- F.B. Griffiths
- J. Isabel
- S. Braine
- D. Wright
- C. Crossland

CSIRO Core Staff

- D. Vaudrey (Cruise Manager)
- D. Edwards
- R.J. Griffiths

Curtin University

J.D. Penrose M. Snell

CSIRO Division of Atmospheric Research

I. Barton

This Cruise Plan is in accordance with the directions of the National Facility Steering Committee for the oceanographic research vessel RV 'FRANKLIN'.

Clashoan

A.D. McEwan CSIRO Division of Oceanography D.H. Green National Facility Steering Committee