

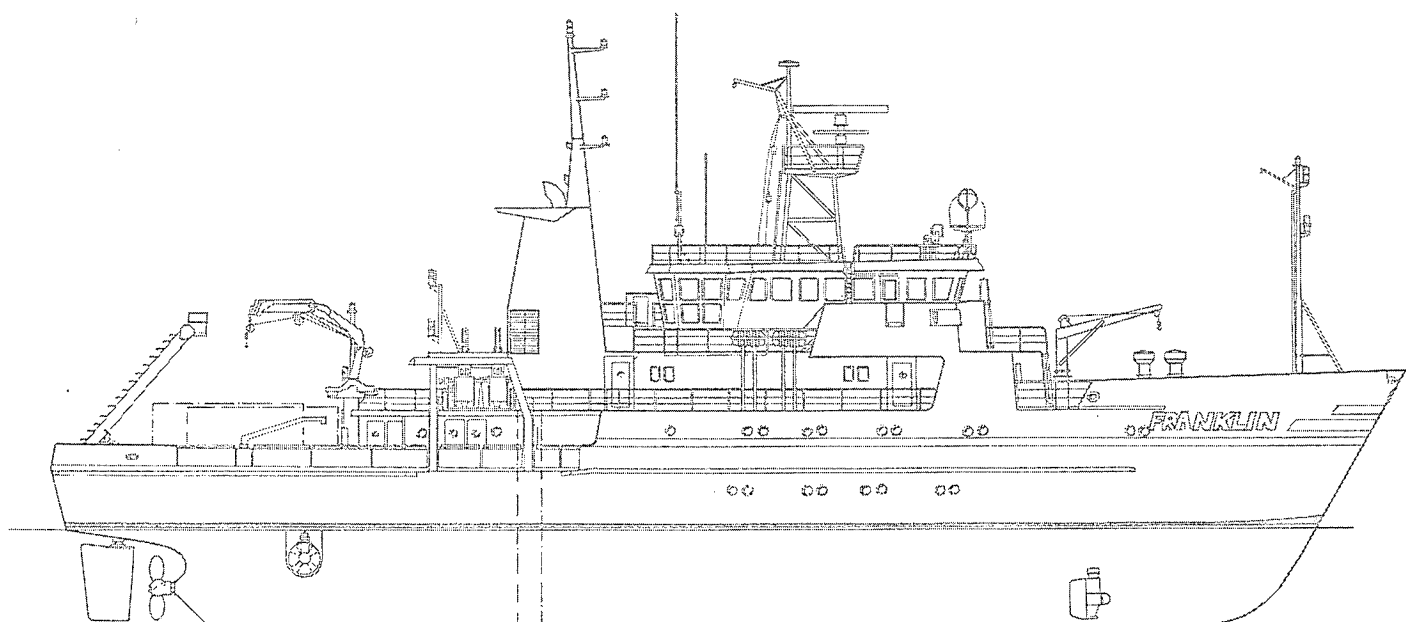
R.V. FRANKLIN

NATIONAL FACILITY OCEANOGRAPHIC RESEARCH VESSEL

CRUISE PLAN

R.V. 'FRANKLIN'

FR 2/86



For further information contact

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Telex AA 57182



R.V. FRANKLIN IS OWNED AND OPERATED BY CSIRO

CRUISE PLAN

R.V. 'FRANKLIN' FR 2/86 ("PACLARK")

Itinerary

Depart Cairns	0600 hours	Thursday 3 April 1986
Arrive Townsville	1800 hours	Saturday 19 April 1986

Scientific Program

Search for submarine hydrothermal vents, western Woodlark Basin.

Principal Investigators

1. Dr R.A. Binns
CSIRO Division of Mineral Physics and Mineralogy
PO Box 136
North Ryde, NSW, 2113
Tel: (02) 887 8741, 887 8666; (048) 83 6069
Telex: AA25817
2. Prof. S.D. Scott
Department of Geology
University of Toronto
Toronto M5S 1A1
Canada
Tel: Toronto (416) 978 5424, 978 3022, 483 5431
Telex: Canada 210623887

Cruise Objective

To seek evidence for recent and current hydrothermal venting on the seafloor of the Woodlark Basin spreading system. If such evidence located, to collect samples of vent plumes, precipitates and associated rocks.

Cruise Track

Proceed from Cairns via Jomard Entrance to the first station at 151°34'E, 9°49'S. Activities will concentrate on the areas marked on Figure 1 (from Admiralty Charts Aus. 381, 383 and 384), within which the exact track will be dictated by results progressively obtained. Final station is likely to be at 152°21'E, 9°59'S. Return to Townsville via Jomard Entrance. With a generous allowance for countering currents, total steaming distance should not exceed 2200 nautical miles.

Time Budget

Steaming to and from Woodlark (12 kts)	4.5 days
Steaming at Woodlark	1 day*
Dredging	3 days*
CTD, Transmissometry	2 days*
Bottom photography	6 days*
	<u>16.5 days</u>

* subject to change at sea

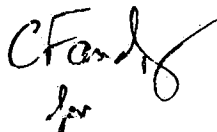
Loading and unloading before and after cruise dates.

Personnel

Steve Scott (Chief Scientist at sea)	University of Toronto
Mike Gorton	" "
Tim McConachy	" "
Dick Chase	University of British Columbia
Sandy Denton	" "
Tony Williamson	PNG Geological Survey
Bob Burne	Baas Becking Laboratory (BMR)
Ray Binns (Chief Sci., pre-, post-)	CSIRO Mineral Physics & Mineralogy
Dave Whitford	" " " "
Dave Cousens	" " " "
Bob Edwards (Cruise Manager)	CSIRO Marine Laboratories
Alan Poole	" " " "

Bob Beattie (CSIRO-ML) to attend FRANKLIN pre-cruise to assist Cousens and Gorton with computer interfacing, etc.

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



A.D. McEwan
CSIRO Division of Oceanography



D.H. Green
National Facility Steering
Committee

