

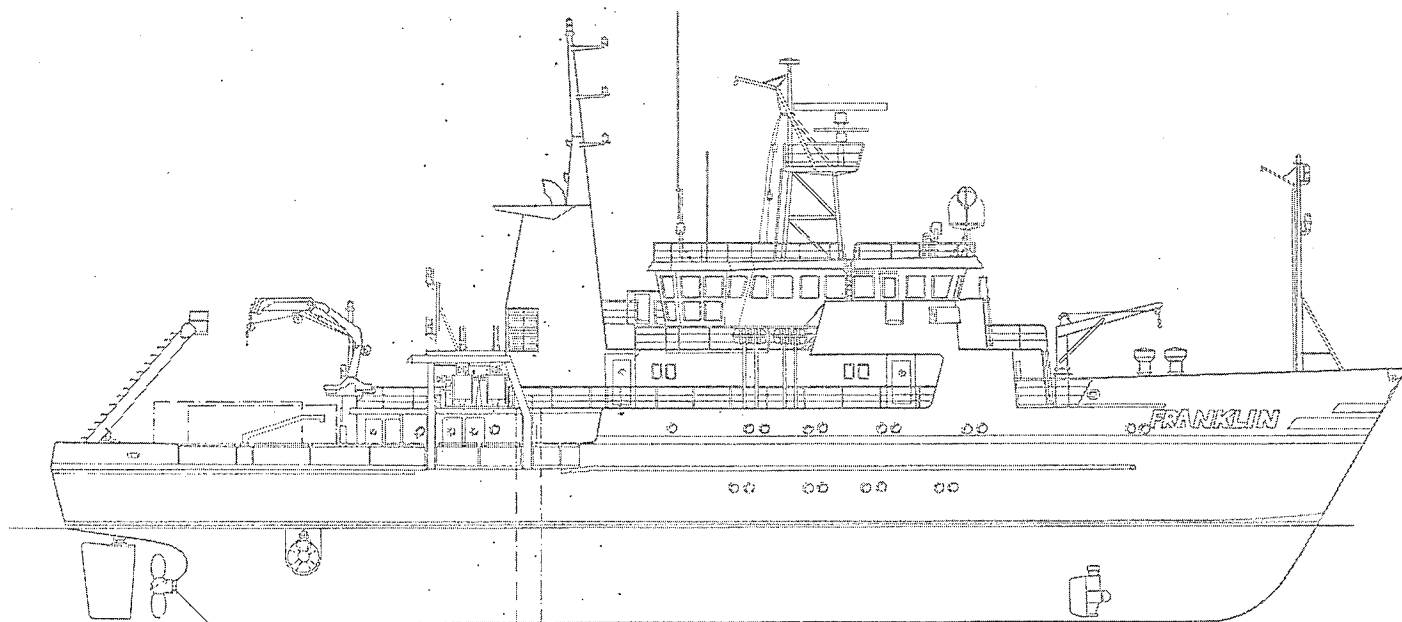
# R.V. FRANKLIN

NATIONAL FACILITY  
OCEANOGRAPHIC RESEARCH VESSEL

CRUISE PLAN

R.V. 'FRANKLIN'

FR 1/87



For further information contact

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R.V. FRANKLIN IS OWNED AND OPERATED BY CSIRO

TJM/NP

1 December 1986

**CRUISE PLAN**  
**R.V. 'FRANKLIN'**  
**FR 1/87**

**ITINERARY**

Depart Hobart:	1000 hrs	Monday	12 January 1987
Arrive Hobart:	0800 hrs	Sunday	18 January 1987

**SCIENTIFIC PROGRAM**

Testing of Bunyip, the towed-body system and a study of water movement and characteristics near eastern Tasmania

**PRINCIPAL INVESTIGATORS**

Dr Trevor J. McDougall  
CSIRO Division of Oceanography  
GPO Box 1538  
HOBART TAS 7001  
Telephone: (002) 206 222

Dr Ian Wallis  
Marine and Freshwater Research Centre  
86 Kent Street  
RICHMOND VIC 3121  
Telephone: (03) 428 6133

**CRUISE OBJECTIVES**

To test both underwater vehicles of Bunyip at greater depth and at greater speed than has previously been achieved. To investigate the flight characteristics of both vehicles, with particular emphasis on the vibration of the microfish, in response to variable tow speed, variations in the drag used behind the vehicle and various types of vibration isolation between the two vehicles.

To use the Acoustic Doppler Current Profiler on station near a moored current meter array at 43° 36.5'S, 148° 14.5'E. To make an XBT section across the

current meter array and to collect sediment samples and zooplankton samples on a non-interference basis in this general area.

#### CRUISE TRACK

The work will be carried out in the general region between Hobart and Triabunna.

#### O.R.V. EQUIPMENT REQUIRED

1. Bunyip winch, cable, fairing and Sea-soar vehicle
2. ADCP
3. Winch and cable to lower 120 kg sediment grab to 3000 m
4. 15 XBTs and recording facilities

#### PERSONNEL

Trevor McDougall	(Chief Scientist)
Alex Papij	(Electronics)
Lindsay Pender	(Bunyip software)
Ian Helmond	(Bunyip mechanical)
Mike Snook	(Bunyip mechanical)
Stuart Swan	(Electronics)
Mike Meerding	(Electronics)
David Kube	(Workshop)
Erik Madsen	(ORV Electronics)
Ian Wallis	(Consulting Engineer/Scientist)
Ian Bishop	(Consulting Engineer/Scientist)
Janette Atack	(Chemistry)

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