

R.V. FRANKLIN

NATIONAL FACILITY OCEANOGRAPHIC RESEARCH VESSEL

RV FRANKLIN

RESEARCH PLAN

FR10/88

Sail Hobart 2000hrs Mon 31 October 1988
Arrive Hobart 1500hrs Wed 2 November 1988

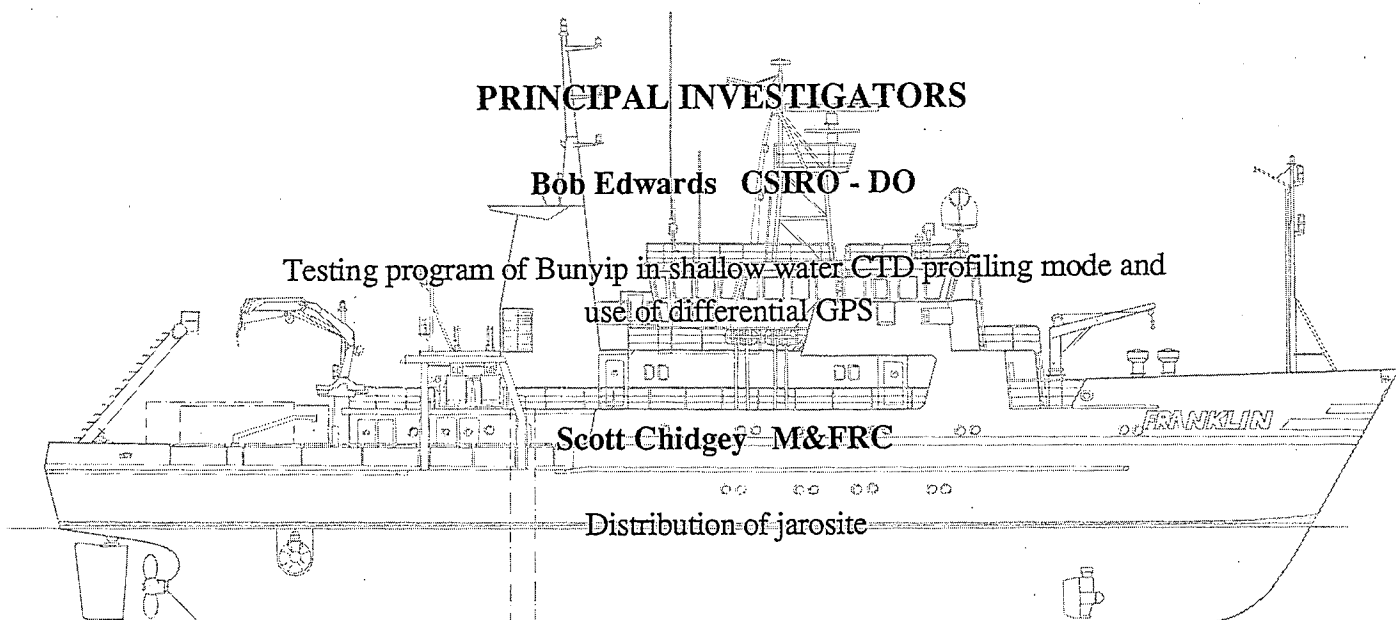
PRINCIPAL INVESTIGATORS

Bob Edwards CSIRO - DO

Testing program of Bunyip in shallow water CTD profiling mode and
use of differential GPS

Scott Chidgey M&FRC

Distribution of jarosite



Ms. B. Baker
CSIRO Division of Oceanography
HOBART

For further information contact
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R.V. FRANKLIN IS OWNED AND OPERATED BY CSIRO

RV FRANKLIN

Research Plan

FR10/88

Itinerary

Sail	Hobart	2000hrs	Mon 31 October 1988
Arrive	Hobart	1500hrs	Wed 2 November 1988

Scientific Programs

To test modifications to, and the use of *Bunyip* in the CTD profiling mode in shallow water.

To undertake bottom photography and bottom sampling in the jarosite dumping area.

To undertake an experiment to see if it is possible to determine ship's head to 0.1° using GPS in a differential mode.

Principal Investigators

Bob Edwards
ORV Operations Manager
Hobart

Scott Chidgey
Marine & Freshwater Research Centre
86 Kent Street
Richmond Vic 3121

Cruise Program

On sailing from Hobart, bottom photography will be undertaken on a transect to the southeast of Storm Bay. This will continue till dawn when the ORV will move to an appropriate area for the Bunyip trials.

Testing will be carried out in the CTD profiling mode to check that the algorithms are correct and that the towed body can be manipulated properly. When these tests are complete, time will be spent practicing profiling with Bunyip in shallow water (30 - 200m). A further test will be made in deeper water just over the edge of the continental shelf to check whether profiling is possible with the ORV following a contour (500m?) and Bunyip profiling the water column.

When these tests are complete, bottom photography and sampling will be carried out in deep water in a profile parallel to the continental shelf slope. At the end of this project the ORV will return to Hobart.

GPS data for the ship's head experiment will be collected whenever there are three satellites in view.

Personnel

Lindsay Pender	Chief Scientist	ORV Staff
Phil Adams		"
Bob Driscoll		"
Dave Edwards		"
Ian Helmond		"
Dave Terhell		"
Stuart Swan		"
Scott Chidgey	Project Leader	M&FRC
Peter Schneider		OSI - Uni of Sydney
David Green		ORV Steering Committee
Tim Mangan		CSIRO - DO
Bertrand Merminod	Project Leader	UNSW - Surveying

This research plan is in accordance with the directions of the National Facility Steering Committee for the oceanographic research vessel *Franklin*.



A.D. McEwan
CSIRO Division of Oceanography



D.H. Green
National Facility Steering Committee

September 1988