

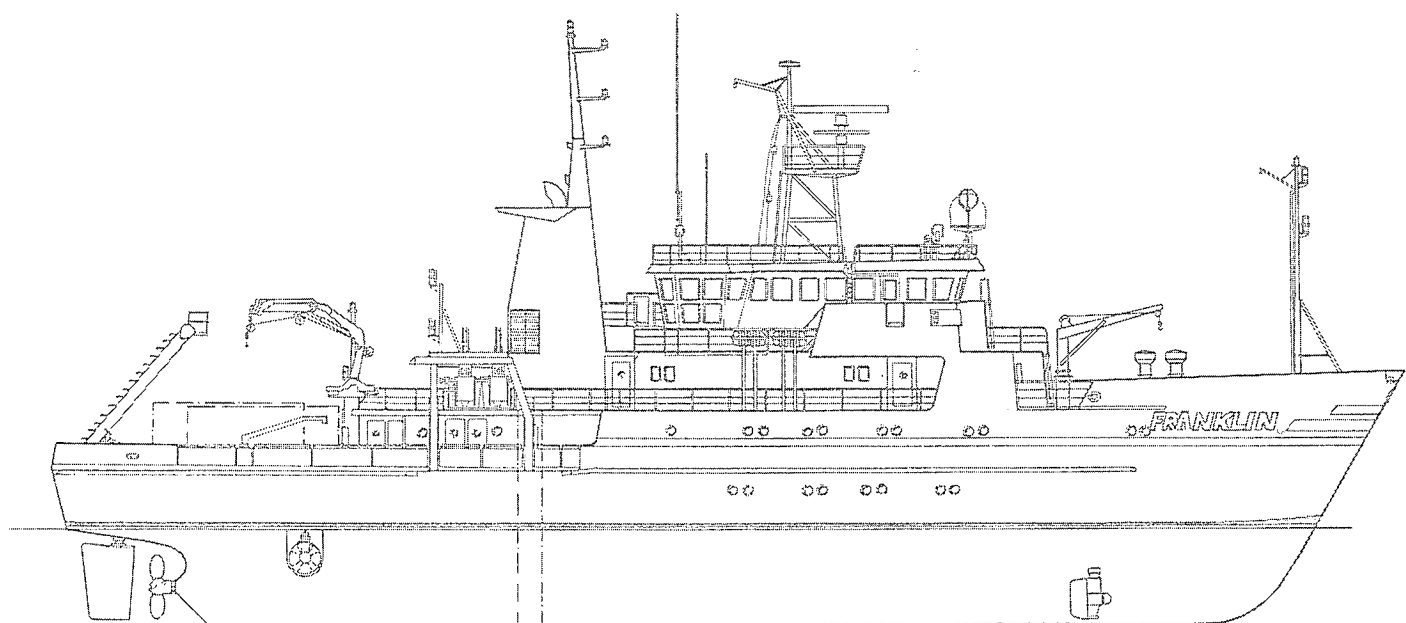
# R.V. FRANKLIN

NATIONAL FACILITY  
OCEANOGRAPHIC RESEARCH VESSEL

CRUISE PLAN

R.V. 'FRANKLIN'

FR 1/86



For further information contact

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R.V. FRANKLIN IS OWNED AND OPERATED BY CSIRO

EJL/NP

28 November 1985

**CRUISE PLAN  
RV 'FRANKLIN'  
FR 1/86**

**Itinerary**

Depart Cairns	1000 hrs	Tuesday 7 January 1986
Arrive Truk Islands		Sunday 26 January 1986
Depart Truk Islands		Tuesday 28 January 1986
Arrive Cairns	1600 hrs	Thursday 13 February 1986

**Scientific Program**

Western Equatorial Pacific Ocean Circulation Study (WEPOCS)

**Principal Investigator**

Dr E.J. Lindstrom  
Division of Oceanography  
CSIRO Marine Laboratories  
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**Associate Investigators**

Dr G. Meyers (CSIRO)  
Dr S. Godfrey (CSIRO)  
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Dr G. Harris (CSIRO)  
Dr R. Lukas (U. of Hawaii)  
Dr E. Firing (U. of Hawaii)  
Dr M. Tsuchiya (Scripps)  
Dr R. Fine (U. of Miami)

**Introduction**

FR 1/86 is the second WEPOCS cruise in a two cruise program. Previous work was carried out during FR 4/85. The main aim of the study is to investigate the variability of the upper ocean during the monsoon peaks. Work for WEPOCS is also carried out concurrently aboard a U.S. research vessel ('Thomas G. Thompson' in 1985 and 'Moana Wave' in 1986).

**Cruise Objectives**

- (a) To complete CTD sections along cruise track (Figure 1) for the purpose of geostrophic velocity computation and water mass analysis. (Lindstrom)

### Equipment provided by users

Pegasus velocity profiler and associated transponders, hydrophones and deck gear. (Lindstrom: to be loaded in Cairns)

### On Board Analysis

On each CTD station samples will be taken for salinity, oxygen, nitrate, silicate and phosphate. We wish to use twelve bottles on each cast (5 litre Niskins). Expected number of samples for each property is about 1000.

### Time Estimates

Steaming time 5000 hm at 11 kts	19 days
CTD stations (90 stations)	10 days
Mooring recovery	2 days
Pegasus profiling	4 days
Port time	2 days
Loading/Unloading	1 day
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	38 days

### Personnel

#### Cairns - Truk - Cairns

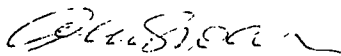
CSIRO Division of Oceanography

Eric J. Lindstrom (Cruise Leader)  
Fred Boland  
Daniel McLaughlan  
Kevin Miller  
Eric Madsen  
Gary Meyers  
Jan Peterson  
Bruce Barker  
Ron Plaschke  
Bob Beattie  
Ken Suber

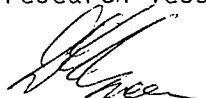
University of Hawaii

Eric Firing

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

