R.V. FRANKLIN

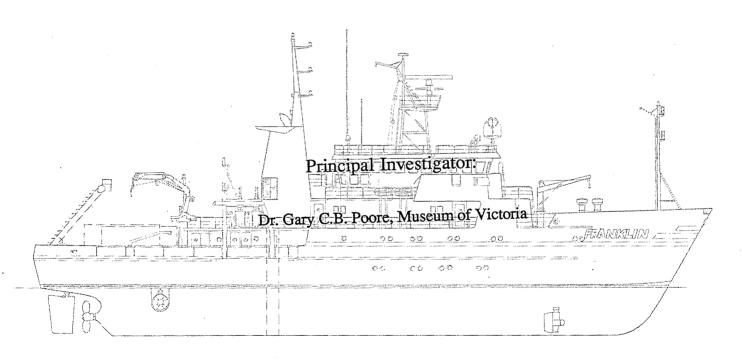
NATIONAL FACILITY OCEANOGRAPHIC RESEARCH VESSEL

CRUISE PLAN

R.V. 'FRANKLIN'

FR09/88

Depart Sydney 0800 Thursday 20 October, 1988 Arrive Hobart 1200 Monday 31 October, 1988



For further information contact

ORV Operations Manager c/- CSIRO Division of Oceanography GPO Box 1538, Hobart, Tas. 7001 Telephone (002) 20 6222 Telex AA 57182



RV FRANKLIN

RESEARCH PLAN

RESEARCH CRUISE FR 9/88

Itinerary

Depart Sydney Arrive Hobart 0800 hr 1200 hr Thursday 20 October, 1988 Monday 31 October 1988

Scientific Program

To sample benthic, demersal and mesopelagic fauna from the continental slope of SE Australia from a depth range of 400 to 3000m

Principal Investigator

Dr. Gary C.B. Poore Museum of Victoria 71 Victoria Crescent ABBOTSFIELD, Vic. 3067.

Cruise Objectives

To sample benthic invertebrates on 3 transects using epibenthic sled and grab.

To sample epibenthic and demersal invertebrates and fishes using a beam trawl

To sample mesopelagic fishes, squid and other invertebrates using Isaacs-Kidd mid water trawl.

To compile file of the cruise activities and scientific findings for natural history documentary.

To sieve, sort and study material from the samples and to preserve samples for further research.

Cruise Track

Sydney-Hobart, with work in following transect areas:

- 1. Off Port Jackson NSW
 Between 1000 and 2000 m depth
- 2. Off Nowra, NSW: appr. 34°52'S 151°09'E to 34°58'S 151°28'E Between 400 and 3000 m.

- 3. Bass Strait, off Pt. Hicks, Vic: appr. 38°15'S 149°20'E to 38°43'S 149°20'E. Between 400 and 3000 m.
- 4. Off Freycinet Peninsula, Tas: appr. 42°00'S 148°39'E to 42°05'S 149°13'E. Between 400 and 3000 m.

Work at each transect

•	IKMT EBS BT G	= = =	ISAACS Kidd Midwater Trawl Epibenthic sled Beam Trawl S-M Grab or Box corer
Transect 1)	IKMT	:	7 hauls between 150 and 1350m (bottom 1000-2000m)
Transect 2)	IKMT EBS BT G	:	2 hauls between 750 and 1350 m 6 hauls between 400 and 3000 m 4 hauls between 400 and 3000 m 6 samples between 300 and 3000 m
Transect 3)	IKMT EBS BT G	: : :	1 haul, 1350 m (bottom 2000 m) 7 hauls between 1200 and 3000 m 7 hauls between 400 and 3000 m 6 samples between 800 and 3000 m
Transect 4)	IKMT EBS BT G	: : :	6 hauls between 150 and 2000 m (bottom 1000-2000 m) 5 hauls between 1000 and 3000 m 7 hauls between 400 and 3000 m 5 samples between 700 and 3000 m

Equipment

All sampling equipment will be supplied for use on the trawl winch or oceanographic winch (epibenthic sled, Smith-McIntyre grab, box corer, 4 m beam trawl, Isaacs-Kidd mid-water trawl).

Underwater camera for use on some sampling gear will be supplied by ImaginACTION.

Use of the deck laboratory for sample processing is requested.

Use of wet laboratory and/or chemistry laboratory for filming in aquaria is requested.

Needs from CSIRO:

Station position and bathymetric records. Cable length, cable angle and tensionmeter readings while sampling. Fitting of pinger or SDL to mid-water sampling gear.

Time Estimates

Steaming time, Syd-	2.5 days	
Transect 1	c. 24 hours	1 day
Transect 2	c. 45 hours	2 days
Transect 3.	c. 60 hours	2.5 days
Transect 4.	c. 48 hours	2 days
TOTAL		10 days

Personnel

Gary Poore	Museum of Victoria	Chief Scientist
Jean Just	Museum of Victoria	
Martin Gomon	Museum of Victoria	•
C.C. Lu	Museum of Victoria	
Robin Wilson	Museum of Victoria	
Laurie Hammond	VIMS	
David Smith	ImaginACTION FILMS	
Ivan Johnson	ImaginACTION FILMS	
Dave Vaudrey	CSIŘO	Cruise Manager
Erik Madsen	CSIRO	Electronics
Peter Shaugnessy	Nat. Facility Steering Committee.	

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

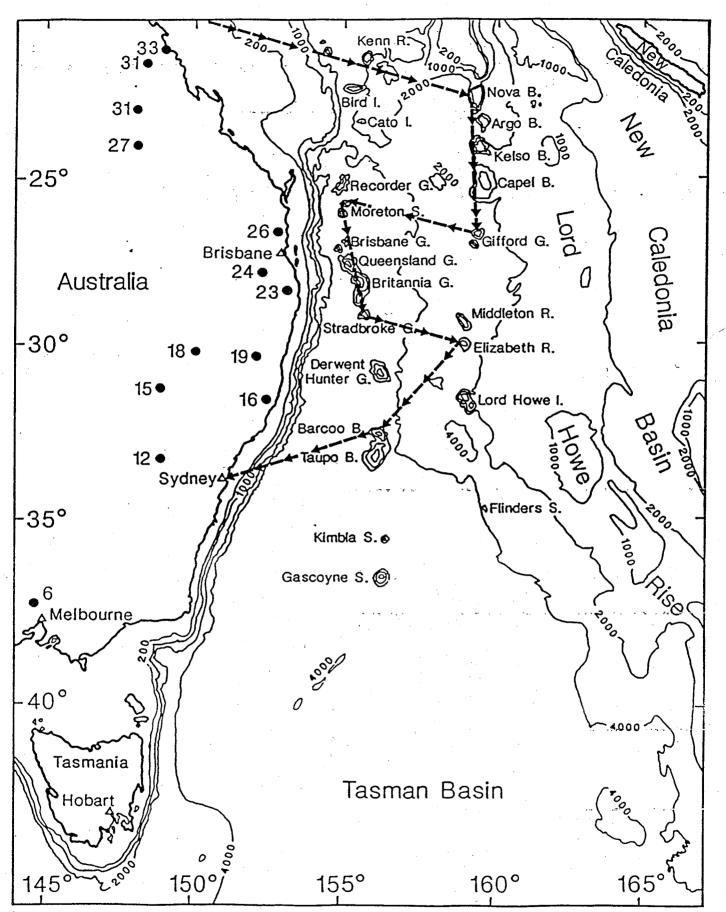


Figure 1. Bathymetric map of the Tasman Sea showing the Tasmantid and Lord Howe Seamount chains. Isobaths in metres. Filled circles in eastern Australia show locations of central volcanoes and their average K-Ar ages. Star in Tasman Basin indicates epicentre of magnitude 6 earthquake of 25 November 1983.

(Abbreviations: B-Bank; G-Guyot; I-Island; R-Reef and S-Seamount).