

FRANKLIN

National Facility
Oceanographic Research Vessel

TROPICS97

CRUISE PLAN

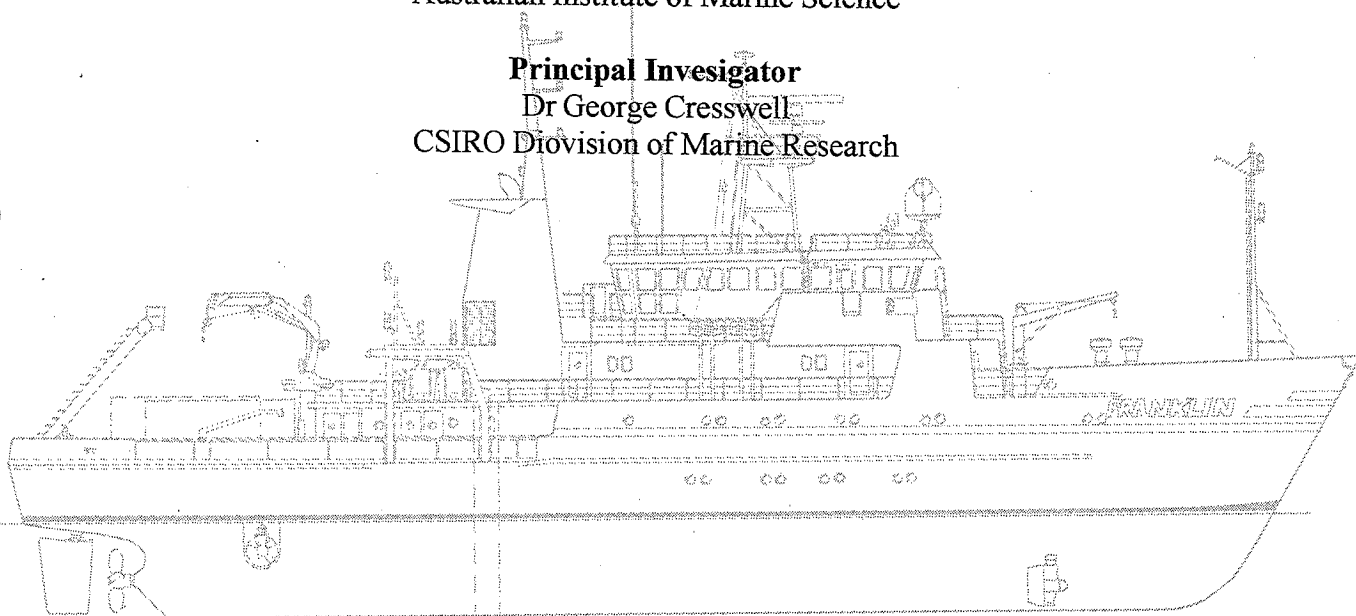
R/VFRANKLIN

Fr04/97

Depart:	Townsville	1000h 8 May 1997
Arrive	Madang	0800h 23 May 1997

Project Coordinator
G.J. Brunskill
Australian Institute of Marine Science

Principal Investigator
Dr George Cresswell
CSIRO Division of Marine Research



For further information contact:

Dave Vaudrey
ORV Operations Manager
CSIRO Division of Marine Research
Hobart

Phone (002) 32 5222
Fax (002) 32 5000
Telex AA 57182

and operated by CSIRO

Fr 4/97

TROPICS97 Leg 1

Physical Oceanography of the Bismark Sea and Sepik River Estuary,
Dr. George Cresswell, CSIRO Division of Oceanography, Chief Scientist,
8-23 May 1997.

ITINERARY

Depart: Townsville 1000h, Thursday 8 May
Arrive: Madang 0800h, Friday 23 May

*Travel northward from Townsville. Occupy a 90-mile-long CTD/ADCP section (ten stations) northward along 145°45'E into the 30 m isobath south of Kerala. Travel to the Sepik study area taking underway measurements and preparing moorings. Deploy moorings; occupy CTD stations. CTD, ADCP and underway data along transects in the Sepik study area. Complete the voyage in Madang.

CHIEF SCIENTIST

Dr George Cresswell
CSIRO Division of Marine Research
GPO Box 1538, HOBART TAS 7001
Phone (03) 6232 5228, Fax (03) 6232 5123
email: George.Cresswell@ml.csiro.au

OBJECTIVE.

The main aim of the cruise will be to make a 3-dimensional map of the currents and water properties in and around the Sepik River plume. A secondary aim will be to occupy stations along a transect across the continental slope and shelf in to the coast of southern PNG.

SCIENTIFIC PARTY

George Cresswell	CSIRO-DMR	Chief Scientist
Ian Helmond	CSIRO-DMR	
Kevin Miller	CSIRO-DMR	
Dan McLaughlin	CSIRO-DMR	
Gail Kineke	U of South Carolina - USA	
Phillip Adams	CSIRO-Franklin	
Neil White	CSIRO-Franklin	
Gary Critchley	CSIRO-Franklin	
Ron Plaschke	CSIRO-Franklin	
Peter Davies	Southern Cross University (Possible Starter)	

MOORING POSITIONS

Two moorings will be deployed at 200 m and 500 m isobaths near the Sepik mouth. The first of these will be recovered at the end of the cruise, its data downloaded and redeployed. Both moorings will be recovered by an AIMS vessel after one year (1998).

Three sediment traps from AIMS will be deployed at

- A. 8deg 37min S., 145deg 49min E. at about 920 m water depth,
- B. 9deg 11min S., 145deg 14min E. in about 1100 m water depth, and
- C. 10 deg 53min S., 146deg 00min E. in about 1450 m water depth.

ORV EQUIPMENT

ADCP, CTD & 12 Position Rosette with Fluorometer and Transmissometer, Niskin Bottles, GPS, Thermosalinograph, sounder.

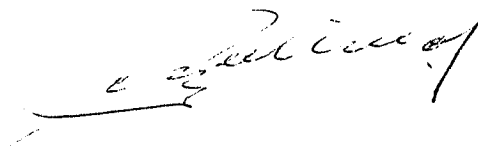
USERS SUPPLIED EQUIPMENT

Mooring equipment and anchors
Sediment Traps

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



C B Fandry
CSIRO Division of Marine Research



G W Paltridge
National Facility Steering
Committee