

FRANKLIN

National Facility
Oceanographic Research Vessel

**Spawning and Larval Recruitment Processes of Commercially Important
Species in Coastal Waters off Victoria – July 1998 (Winter 2) Cruise**

CRUISE SUMMARY

ORV FRANKLIN

FR 09/98

Depart Melbourne
Arrive Portland

Tuesday 21 July 1998
Wednesday 29 July 1998

Principal Investigator

Dr Francisco J. Neira
Marine and Freshwater Resources Institute
Queenscliff Victoria

For Further information contact:

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SUMMARY O.R.V. FRANKLIN CRUISE
Fr 09/98 - JULY 1998

Itinerary

Depart: Melbourne 1000hrs, 21 July 1998
Arrive: Portland 1000hrs, 29 July 1998

Principal Investigator

Dr Francisco J. Neira
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Project : Spawning and larval recruitment processes of commercially important species in coastal waters off Victoria - July 1998 (Winter 2) Cruise.

1. Sampling area

The area sampled during the July 1998 *Franklin* cruise comprised the Victorian and South Australian coasts between Gabo Island (149°55'E; 37°36.0'S) and Port MacDonnell (140°17'E; 38°19.0'S), south to 32 nautical miles (nm) offshore.

2. Cruise track

The July 1998 ichthyoplankton survey covered 31 stations along seven parallel transects located 65 nm apart, each containing five sampling stations located at 2, 4, 8, 16 and 32 nm offshore (see enclosed summary table). *Franklin* departed Williamstown (Melbourne) on July 21 at 10.00 hrs and sampling commenced the same day at the inshore-most station (2 nm) off Port Phillip Heads at 15:00 hrs. Another two stations (4 and 8 nm offshore) were completed along this transect before heading east to the Cape Liptrap transect (July 22). Sampling continued east along the Cape Conran transect (July 23) and Gabo Island transect (July 24), before steaming west to complete the remaining two stations (16 and 32 nm) along the Port Phillip Heads transect (July 25-26). Sampling was subsequently carried out along the Port Campbell transect (July 26) and at one station

4. Data and samples obtained

A total of 28 CTD profiles (sigma-t, temperature, dissolved oxygen, fluorescence), and 95 water samples for nutrient analysis were collected with the CTD rosette throughout the cruise. Ichthyoplankton samples totalled 162 which included 81 EZ net samples, 5 bongo oblique tows in the stratum 25-0 m, and 76 bongo neuston samples, the latter including 26 additional samples collected during night time between transects, and 11 extra surface tows within Portland Bay.

Personnel

MAFRI (Vic):

Dr Francisco J. Neira - Chief Scientist (Principal Investigator) - Ichthyoplankton
Mr Paul Hamer - Marine Scientist
Mrs Sharon Tait - Technical Officer - Ichthyoplankton sampling
Mr David Beyer - Technical Officer - Ichthyoplankton sampling
Mr Andy Longmore - Marine Scientist - Chemistry
Mr Martin Lourey - Marine Scientist - Chemistry

CSIRO (Hobart):

Mr David Terhell - ORV Franklin Cruise Manager / Computer Systems
Mr Alan Poole - EZ technician - Electronics
Ms Kylie Brown - Electronics
Mr Ron Plaschke - Chemistry

ORV Franklin:

Ian Taylor	Master
Arthur Staron	Chief Officer
Allan MacCarthy	Mate
John Morton	Chief Engineer
Greg Pearce	First Engineeg
Andrew McLagan	Electrical Engineer
Jannick Hansen	Bosun
Greg Simpson	AB
Wayne Browning	AB
Peter Genge	AB
Les Clark	Greaser
Ron Culliney	Chief Stewart
Gary Hall	Chief Cook
Tom Condon	2nd Cook

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Transects and station positions, and N° of samples

Distance offshore nautical miles	Location		Longitude	Latitude	Max depth (m)	Neuston samples	Bongo 25-0 m	EZ samples	Subtotal samples	Gabo Island	Cape Conran	Cape Ljupatp	P. Phillip Heads	Port Campbell	Portland	Port MacDonnell	Total samples
	Latitude	Longitude															
2	37° 36.0'	149° 55'	37° 50.5'	38° 44.5'	100	1	1	4	5	3	2	2	1	5	7	6	8
	37° 36.0'	148° 33'	37° 50.5'	38° 44.5'	100	1	1	4	5	3	2	2	1	5	7	6	
4	37° 38.0'	149° 55'	37° 52.5'	38° 46.5'	120	1	1	3	5	3	2	2	2	4	4	0	8
	37° 38.0'	148° 33'	37° 52.5'	38° 46.5'	120	1	1	3	5	3	2	2	2	4	4	0	
8	37° 42.0'	149° 55'	37° 56.5.0'	38° 50.5'	120	1	1	4	5	3	3	3	4	5	5	0	18
	37° 42.0'	148° 33'	37° 56.5.0'	38° 50.5'	120	1	1	4	5	3	3	3	4	5	5	0	
16	37° 50.0'	149° 55'	38° 04.5'	38° 58.5'	100	1	1	5	5	3	4	4	5	5	5	0	7
	37° 50.0'	148° 33'	38° 04.5'	38° 58.5'	100	1	1	5	5	3	4	4	5	5	5	0	
32	38° 06.0'	149° 55'	38° 20.5'	39° 15.5'	150	1	1	4	5	4	4	4	5	5	4	0	8
	38° 06.0'	148° 33'	38° 20.5'	39° 15.5'	150	1	1	4	5	4	4	4	5	5	4	0	
Total samples				24	17	17	19	24	20	4	4	4	4	4	4	4	26
EXTRA SURFACE TOWS:																	26
ADDITIONAL TOWS PORTLAND:																	11
TOTAL SAMPLES:																	162

* = EZ not employed due to bad weather