

AUSTRALIAN NATIONAL ANTARCTIC RESEARCH EXPEDITIONS

FIBEX CRUISE ZOOPLANKTON DATA

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DEPARTMENT OF SCIENCE AND TECHNOLOGY

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CONTENTS

ABSTRACT	1
1. INTRODUCTION	5
1.1 TYPES OF NETS USED	5
1.2 STATION ROUTINE	5
1.3 TREATMENT OF CATCH	...	...	...	...	...	...	...	...	...	...	...	...	6
2. STATION LIST	...	...	...	...	...	...	...	...	...	...	...	...	7
3. COMPOSITION OF CATCHES	...	...	...	...	...	...	...	...	...	...	...	...	51
4. EUPHAUSIA SUPERBA	...	...	...	...	...	...	...	...	...	...	...	...	157

FIGURES

1. FIBEX cruise track 19/1/81 to 11/2/81 (Stations 03-21)	...	...	...	3								
2. FIBEX cruise track 13/2/81 to 13/3/81 (Stations 22-52)	...	...	...	4								
3. Composition of catch by weight and numbers - bongo and conical nets	...	...	...	...	...	...	...	...	...	...	...	154
4. Composition of catch by weight and numbers - RMT blind hauls	...	...	...	...	...	...	...	...	...	...	...	155
5. Composition of catch by weight and numbers - RMT aimed hauls	...	...	...	...	...	...	...	...	...	...	...	156
6. <u>E. superba</u> length frequency - all nets	...	...	...	...	...	...	...	...	...	...	...	159
7. <u>E. superba</u> length frequency - RMT nets only	...	...	...	...	...	...	...	...	...	...	...	160
8. <u>E. superba</u> length frequency - Bongo nets only	...	...	...	...	...	...	...	...	...	...	...	161
9. <u>E. superba</u> length frequency by geographic area - RMT samples only	162
10. <u>E. superba</u> catch per effort, and maturity stage frequencies by geographic area - RMT samples only	163

TABLES

1. Percentage composition of catches by nets by weight	...	...	...	...	...	...	...	...	...	...	...	152
2. Percentage composition of catches by nets by number	153

FIBEX CRUISE ZOOPLANKTON DATA

by

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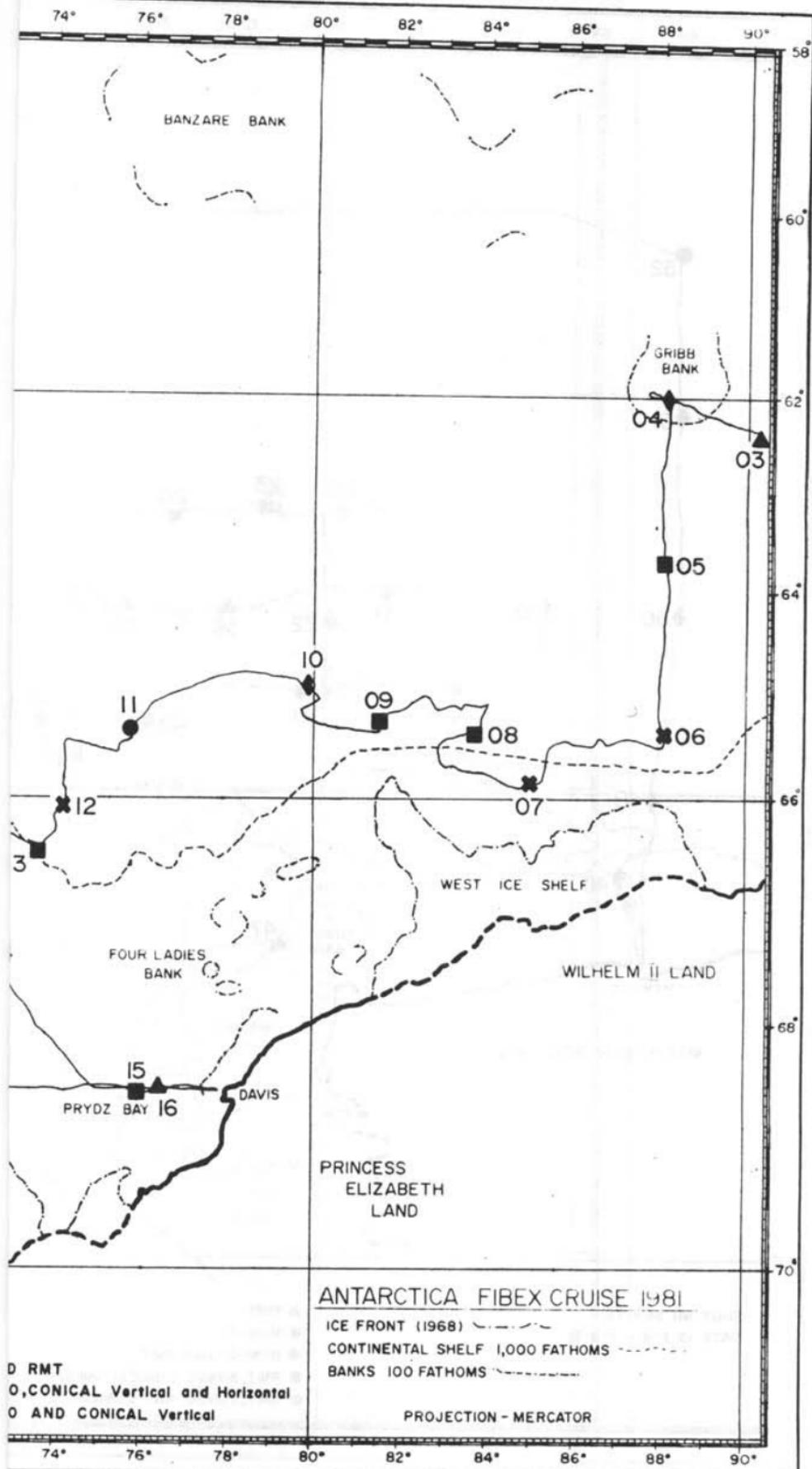
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ABSTRACT

This report summarises the data on zooplankton collected during the FIBEX cruise on M.V. Nella Dan between January and March 1981. It includes a station list, description of the nets used, the composition of catches, and some analysis of the catches of Euphausia superba.



Figure 1. FIBEX cruise trac



k 19/1/81 to 11/2/81 (Stations 03-21).

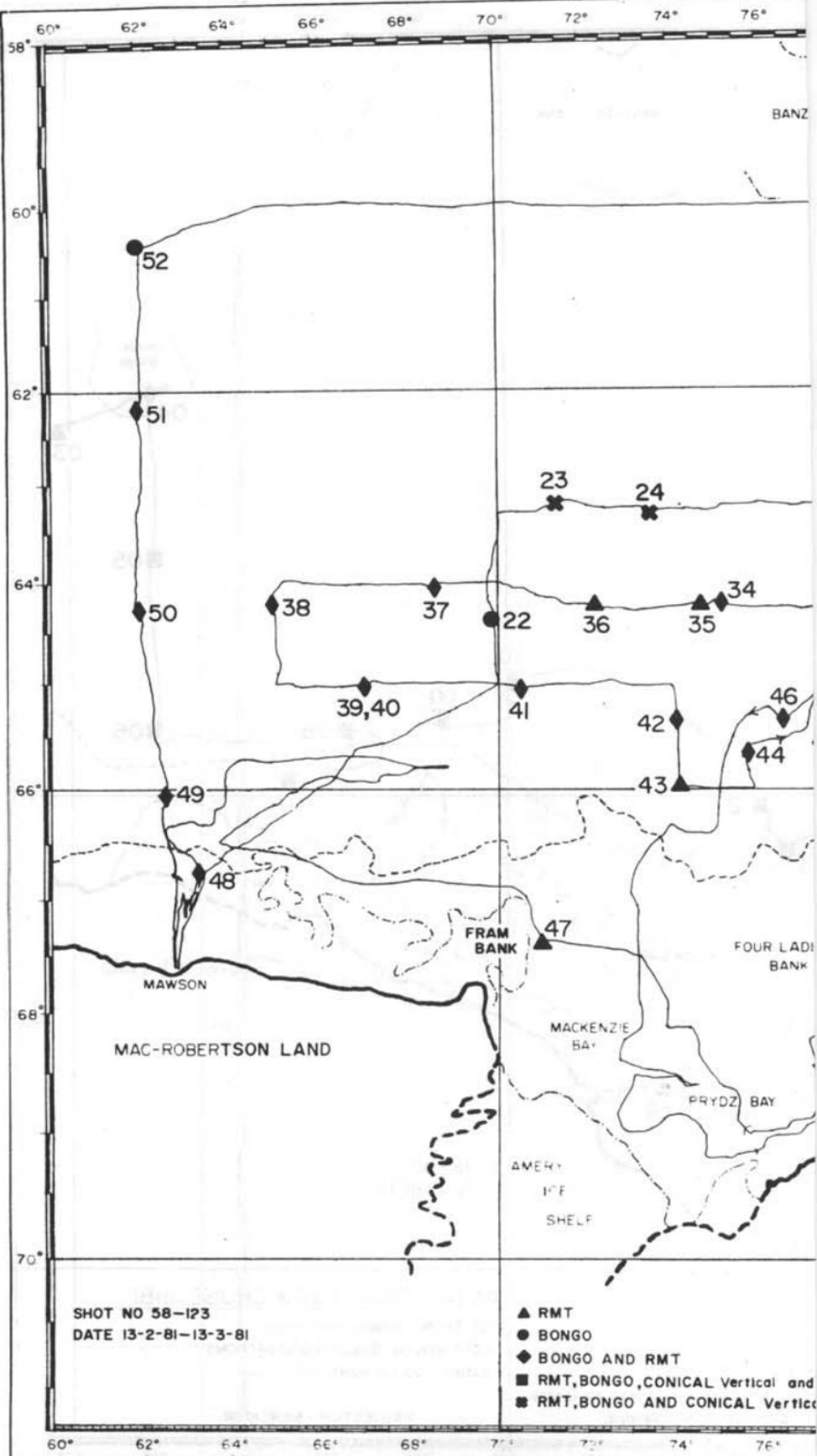
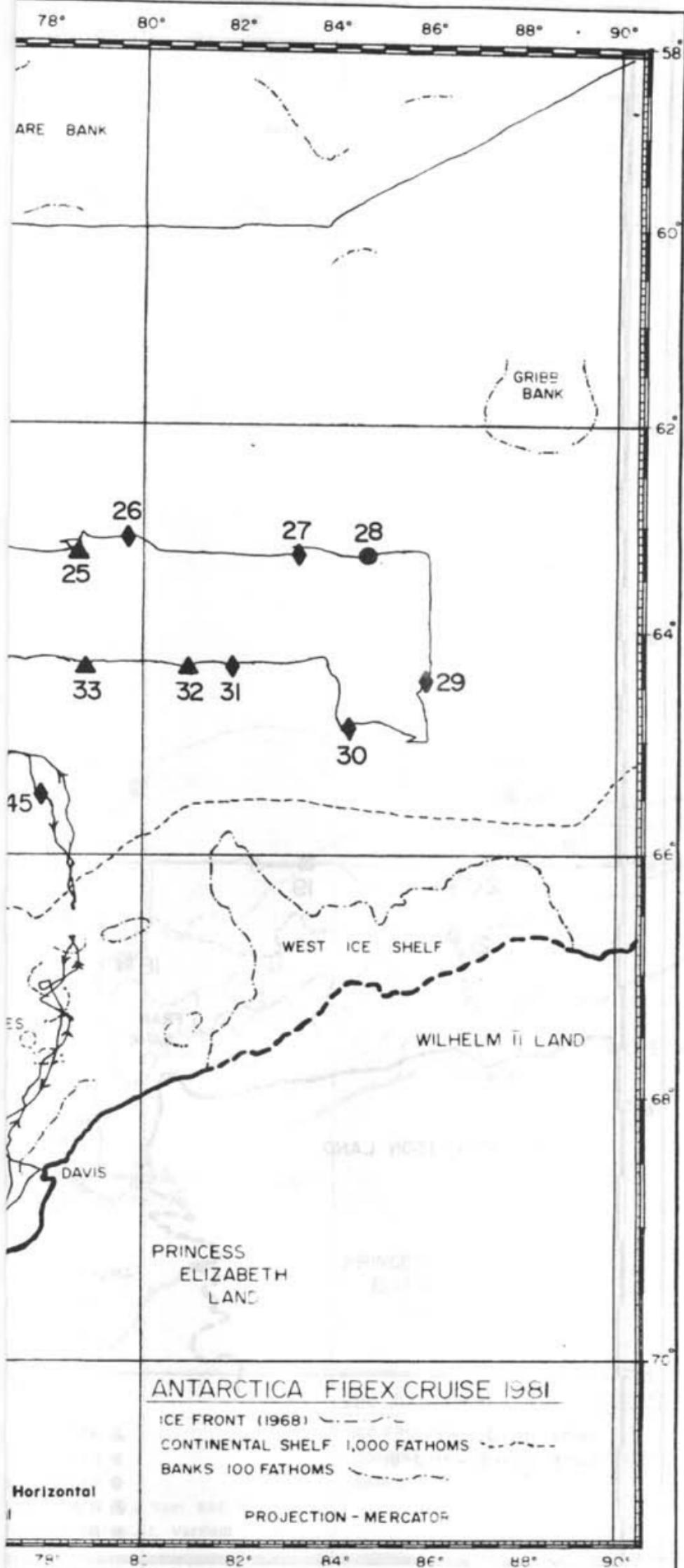


Figure 2. FIBEX cruise track 13/2/81 to 13/3/81



13/3/81 (Stations 22-52).

1. INTRODUCTION

The First International BIOMASS Experiment (FIBEX) was a programme co-ordinating the activities of 12 ships from 11 nations in the Southern Atlantic and Indian Oceans. Its primary aims was to assess the distribution and abundance of krill (Euphausia superba). Australia's contribution was to survey an area of the southern Indian Ocean south of 60° and between 60°E and 90°E longitude.

A Simrad EK 120 echo sounder (120 KHz) with a Simrad QD echo integrator were used to map the distribution of acoustic targets along the cruise track shown in Figures 1 and 2. Also shown are the stations where net sampling was done and where physical and chemical oceanographic data and phytoplankton samples were collected. The cruise track was established at the beginning of the expedition to eliminate any bias, and was followed as closely as ice and weather conditions would permit.

Data on the nets used, the stations occupied, the species composition of the catches and some analysis of the catches of E. superba will be given in this report, and subsequent reports will deal with the results of the acoustic survey, oceanographic data and other studies.

1.1 TYPES OF NETS USED

1.1.1 Rectangular midwater trawl (RMT 8)

This was a standard RMT with a mouth area of 8 m² and a mesh size of 4.5 mm. Opening and closing was achieved by means of an electro-mechanical release activated via an electrically conducting towing wire. Combined with the release was a depth and temperature monitor which displayed information in real time on deck. This allowed us to aim the net at specific targets with a vertical accuracy of \pm 2 m or better. The release and monitor was not ready, however, until Station 23 (14 February 1981), and prior to that the net was tied open and the fishing depth calculated by wire angle and amount of wire out.

1.1.2 Bongo nets

Each net of the pair had a square mouth of 50 cm each side and a mesh size of 1 mm. A TSK towing depth/distance meter was fitted in the right hand net.

1.1.3 Conical nets

During the first half of the cruise, nets with a circular mouth 1 m in diameter and a mesh size of 1 mm were used. These were found to be unwieldy, and during the latter part of the cruise nets with a mouth diameter of 56 cm and a mesh size of 200 μ were used.

1.2 STATION ROUTINE

Routine stations were taken as closely as possible to solar midday and midnight. A 'blind' RMT horizontal haul at a notional depth of 62 m; an oblique bongo tow from a notional 200 m to the surface; a horizontal surface

tow, and a vertical tow with conical nets were attempted at each station. Conical surface tows were discontinued in the second half of the cruise because problems with catching the ship's waste, and vertical tows were discontinued shortly afterwards because of continuing problems with wire tangling.

When the net release and monitor was available, several sessions of trawls aimed at specific acoustic targets were completed. When an area with suitable acoustic targets was encountered, the ship was slowed to trawling speed and the net deployed to 50 m depth but kept closed. As a target was identified under the ship, the net's depth was quickly adjusted and the net opened. Once the target had passed, the net was closed and brought to the surface.

1.3 TREATMENT OF CATCH

The whole catch was weighed as accurately as possible immediately it was brought onboard. Large medusae etc. were also weighed individually. Euphausia superba was then sorted from the catch, and the balance sorted into major groups, e.g. pteropods, copepods, fish, etc. and preserved. A random sample of at least 200 E. superba were then measured and sorted for sex and maturity stage and preserved as a separate sample. The balance of the E. superba catch was either preserved or frozen. On return to Australia, the catches were sorted into individual species, weighed and counted. All species determinations were done by the authors, except for the following; some copepods by Dr I. Bayly of Monash University, pteropods by Dr F. Wells of the Western Australian Museum, and cephalopods by Dr C. Lu of the National Museum of Victoria.

2. STATION LIST

Details of the stations occupied are presented on the following pages.

Note:

1. All times are GMT.
2. Towing speed is expressed in knots.
3. Towed distance is in nautical miles.
4. all depths are in metres.
5. Ice is expressed in the following code:
0 = no pack ice, no icebergs
1 = 1-10 icebergs visible
2 = 11 or more icebergs visible
3 = pack ice 1/8 - 2/8
4 = pack ice 3/8 - 5/8
5 = pack ice 6/8 - 8/8.

RESULTS

Table 1 shows the relationship between the individual and family

characteristics and the probability of being a victim of child abuse. The results show that the probability of being a victim of child abuse is higher for females than males, and that the probability of being a victim of child abuse increases with age. The probability of being a victim of child abuse is also higher for children from single-parent families than for children from two-parent families. The probability of being a victim of child abuse is also higher for children from families where the mother has less than a high school education than for children from families where the mother has a high school education or more.

DATE: 17/ 1/81 LAT: 63 17 24 S NET: RMT

GMT: 1409 LONG: 110 45 42 E

NET-TIED-OPEN HAUL NO002

TOWING-SPEED 4

WATER-DEPTH >2000

ICE 0

STATION-NO 02

FLOWMETER-READING 32990

CATCH-WEIGHT 209.77 GR

FISHING TIME START: 1415 DEPTH RANGE TOP: 60
END: 1445 DEPTH RANGE BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 19/ 1/81 LAT: 62 21 48 S NET: BONGO

GMT: 1102 LONG: 90 10 36 E

HAUL NO003

TOWING-SPEED 2

WATER-DEPTH >2000

ICE 0

STATION-NO 03

TOWED-DISTANCE 2.3

CATCH-WEIGHT 59.03 GR

FISHING TIME START: 1115 DEPTH RANGE TOP: 0
END: 1145 DEPTH RANGE BOT: 480

TRAJECTORY: OBLIQUE

DATE: 20/ 1/81 LAT: 61 59 48 S NET: RMT

GMT: 0413 LONG: 88 4 36 E

NET TIED OPEN HAUL NO004

TOWING-SPEED 4

WATER-DEPTH >2000

ICE 0

STATION-NO 04

FLOWMETER-READING 27350

CATCH-WEIGHT 1142.56 GR

FISHING TIME START: 0417 DEPTH RANGE TOP: 60
END: 0449 DEPTH RANGE BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 20/ 1/81 LAT: 61 59 42 S NET: BONGO

GMT: 0636 LONG: 88 5 18 E

HAUL NO005
TOWING-SPEED 2
WATER-DEPTH >2000
ICE 0
STATION-NO 04
TOWED-DISTANCE 1.1
CATCH-WEIGHT 46.36 GR

FISHING TIME START: 0640 DEPTH RANGE TOP: 0
END: 0710 BOT: 300

TRAJECTORY: OBLIQUE

DATE: 20/ 1/81 LAT: 63 40 42 S NET: BONGO

GMT: 1608 LONG: 87 59 12 E

HAUL NO006
TOWING-SPEED 2
WATER-DEPTH >2000
ICE 0
STATION-NO 05
TOWED-DISTANCE 1.7
CATCH-WEIGHT 2.34 GR

FISHING TIME START: 1612 DEPTH RANGE TOP: 0
END: 1644 BOT: 220

TRAJECTORY: OBLIQUE

DATE: 20/ 1/81 LAT: 63 40 42 S NET: MISCELLANEOUS-GEAR

GMT: 1618 LONG: 87 59 12 E

SURFACE HAUL HAUL NO007
TOWING-SPEED 2
WATER-DEPTH >2000
ICE 0
STATION-NO 05
CATCH-WEIGHT 8.78 GR

FISHING TIME START: 1618 DEPTH RANGE TOP: 0
END: 1647 BOT: 0

TRAJECTORY: HORIZONTAL

DATE: 20/ 1/81 LAT: 63 42 42 S NET: MISCELLANEOUS-GEAR

GMT: 1750 LONG: 87 58 36 E

VERTICAL HAUL HAUL NO008

TOWING-SPEED 0

WATER-DEPTH >2000

ICE 0

STATION-NO 05

CATCH-WEIGHT 102.70 G

FISHING TIME START: 1800

DEPTH RANGE TOP: 0

END: 1810 DEPTH RANGE BOT: 400

TRAJECTORY: VERTICAL

DATE: 20/ 1/81 LAT: 63 42 42 S NET: RMT

GMT: 1846 LONG: 87 58 36 E

NET TIED OPEN HAUL NO009

TOWING-SPEED 4

WATER-DEPTH >2000

ICE 0

STATION-NO 05

FLOWMETER-READING 34513

CATCH-WEIGHT 179.41 GR

FISHING TIME START: 1849

DEPTH RANGE TOP: 60

END: 1923 DEPTH RANGE BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 21/ 1/81 LAT: 65 21 6 S NET: RMT

GMT: 0447 LONG: 88 3 48 E

NET TIED OPEN HAUL NO010

TOWING-SPEED 4

WATER-DEPTH >2000

ICE 0

STATION-NO 06

FLOWMETER-READING 32640

CATCH-WEIGHT 1196.43 GR

FISHING TIME START: 0451

DEPTH RANGE TOP: 60

END: 0524 DEPTH RANGE BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 21/ 1/81 LAT: 65 24 36 S NET: MISCELLANEOUS-GEAR

GMT: 0619 LONG: 88 2 48 E

HAUL NO011 VERTICAL

TOWING-SPEED 0
WATER-DEPTH >2000
ICE 0
STATION-NO 06
CATCH-WEIGHT 29.76 GR

FISHING TIME START: 0631
END: 0641

DEPTH RANGE TOP: 0
BOT: 200

TRAJECTORY: VERTICAL

DATE: 21/ 1/81 LAT: 65 24 36 S NET: BONGO

GMT: 0656 LONG: 88 2 48 E

HAUL NO012

TOWING-SPEED 2
WATER-DEPTH >2000
ICE 0
STATION-NO 06
TOWED-DISTANCE 1.1
CATCH-WEIGHT 13.85 GR

FISHING TIME START: 0701
END: 0731

DEPTH RANGE TOP: 0
BOT: 350

TRAJECTORY: OBLIQUE

DATE: 21/ 1/81 LAT: 65 50 48 S NET: MISCELLANEOUS-GEAR

GMT: 1826 LONG: 85 9 24 E

HAUL NO014 CONICAL VERTICAL

TOWING-SPEED 0
WATER-DEPTH 830
ICE 3
STATION-NO 07
CATCH-WEIGHT 18.08 GR

FISHING TIME START: 1832
END: 1848

DEPTH RANGE TOP: 0
BOT: 400

TRAJECTORY: VERTICAL

DATE: 21/ 1/81 LAT: 65 50 36 S NET: RMT
GMT: 1908 LONG: 85 2 48 E DEPTH: 6000
HAUL NO015 NET TIED OPEN
TOWING-SPEED 4
WATER-DEPTH 830
ICE 3
STATION-NO 07
FLOWMETER-READING 29532
CATCH-WEIGHT 117.60 GR
FISHING TIME START: 1912 DEPTH RANGE TOP: 60
END: 1945 DEPTH RANGE BOT: 65
TRAJECTORY: HORIZONTAL

DATE: 21/ 1/81 LAT: 65 53 42 S NET: BONGO
GMT: 2002 LONG: 84 49 18 E
HAUL NO016
TOWING-SPEED 4
WATER-DEPTH 830
ICE 3
STATION-NO 07
TOWED-DISTANCE 2.4
CATCH-WEIGHT 16.57 GR
FISHING TIME START: 2006 DEPTH RANGE TOP: 0
END: 2032 DEPTH RANGE BOT: 160
TRAJECTORY: OBLIQUE

DATE: 22/ 1/81 LAT: 65 22 0 S NET: RMT
GMT: 0443 LONG: 83 38 48 E
HAUL NO017 NET TIED OPEN
TOWING-SPEED 4
WATER-DEPTH >2000
ICE 3
STATION-NO 08
FLOWMETER-READING 28800
CATCH-WEIGHT 2748.06 GR
FISHING TIME START: 0447 DEPTH RANGE TOP: 60
END: 0520 DEPTH RANGE BOT: 65
TRAJECTORY: HORIZONTAL

DATE: 22/ 1/81 LAT: 65 22 0 S NET: MISCELLANEOUS-GEAR

GMT: 0621 LONG: 83 38 48 E

HAUL NO018 VERTICAL

TOWING-SPEED 1 0

WATER-DEPTH DEB >2000

ICE 3

STATION-NO T9 08

CATCH-WEIGHT 20.98 GR

FISHING TIME START: 0630

DEPTH RANGE TOP: 0

END: 0640

BOT: 200

TRAJECTORY: VERTICAL

DATE: 22/ 1/81 LAT: 65 21 6 S NET: BONGO

GMT: 0634 LONG: 83 38 42 E

HAUL NO019

TOWING-SPEED 4

WATER-DEPTH >2000

ICE 3

STATION-NO DEB 08

TOWED-DISTANCE 2.2

CATCH-WEIGHT 185.25 GR

FISHING TIME START: 0646

DEPTH RANGE TOP: 0

END: 0716

BOT: 320

TRAJECTORY: OBLIQUE

DATE: 22/ 1/81 LAT: 65 15 48 S NET: BONGO

GMT: 1716 LONG: 81 30 36 E

HAUL NO020

TOWING-SPEED 4

WATER-DEPTH >2000

ICE 3

STATION-NO DEB 09

TOWED-DISTANCE 2.5

CATCH-WEIGHT 22.41 GR

FISHING TIME START: 1723

DEPTH RANGE TOP: 0

END: 1756

BOT: 160

TRAJECTORY: OBLIQUE

DATE: 22/ 1/81 LAT: 65 15 48 S NET: MISCELLANEOUS-GEAR
GMT: 1730 LONG: 81 30 36 E

HAUL NO021 SURFACE
TOWING-SPEED 4
WATER-DEPTH >2000
ICE 3
STATION-NO 09
CATCH-WEIGHT 65.95 GR

FISHING TIME START: 1730 DEPTH RANGE TOP: 0
END: 1800 BOT: 0
TRAJECTORY: HORIZONTAL

DATE: 22/ 1/81 LAT: 65 18 48 S NET: MISCELLANEOUS-GEAR
GMT: 2039 LONG: 81 29 0 E

HAUL NO022 VERTICAL
TOWING-SPEED 0
WATER-DEPTH >2000
ICE 3
STATION-NO 09
CATCH-WEIGHT 61.87 GR

FISHING TIME START: 2052 DEPTH RANGE TOP: 0
END: 2057 BOT: 400
TRAJECTORY: VERTICAL

DATE: 22/ 1/81 LAT: 65 18 48 S NET: RMT

GMT: 2109 LONG: 81 29 0 E

HAUL NO023 NET TIED OPEN
TOWING-SPEED 4
WATER-DEPTH >2000
ICE 3
STATION-NO 09
FLOWMETER-READING 25340
CATCH-WEIGHT 1034.31 GR

FISHING TIME START: 2113 DEPTH RANGE TOP: 60
END: 2143 BOT: 65
TRAJECTORY: HORIZONTAL

DATE: 23/ 1/81 LAT: 64 56 54 S NET: BONGO

GMT: 0442 LONG: 79 48 6 E

HAUL NO024
TOWING-SPEED 4
WATER-DEPTH >2000
ICE 1
STATION-NO 10
TOWED-DISTANCE 2.3
CATCH-WEIGHT 39.82 GR

FISHING TIME START: 0450 DEPTH RANGE TOP: 0
END: 0521 BOT: 265

TRAJECTORY: OBLIQUE

DATE: 23/ 1/81 LAT: 64 55 36 S NET: RMT

GMT: 0530 LONG: 79 52 6 E

HAUL NO025 NET TIED OPEN
TOWING-SPEED 4
WATER-DEPTH >2000
ICE 1
STATION-NO 10
FLOWMETER-READING 25713
CATCH-WEIGHT 1850.77 GR

FISHING TIME START: 0536 DEPTH RANGE TOP: 60
END: 0606 BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 23/ 1/81 LAT: 65 20 54 S NET: BONGO

GMT: 1730 LONG: 75 44 48 E

HAUL NO026
TOWING-SPEED 4
WATER-DEPTH >2000
ICE 1
STATION-NO 11
TOWED-DISTANCE 2.3
CATCH-WEIGHT 18.41 GR

FISHING TIME START: 1741 DEPTH RANGE TOP: 0
END: 1813 BOT: 190

TRAJECTORY: OBLIQUE

DATE: 23/ 1/81 LAT: 65 25 24 S NET: BONGO

GMT: 1914 LONG: 75 47 54 E

HAUL NO027

TOWING-SPEED

4

WATER-DEPTH

>2000

ICE

1

STATION-NO

11

TOWED-DISTANCE

2.7

CATCH-WEIGHT

49.72 GR

FISHING TIME START: 1917

DEPTH RANGE TOP: 40

END: 1947

BOT: 60

TRAJECTORY: HORIZONTAL

DATE: 24/ 1/81 LAT: 66 4 6 S NET: BONGO

GMT: 0343 LONG: 74 14 48 E

HAUL NO028

TOWING-SPEED

4

WATER-DEPTH

>2000

ICE

1

STATION-NO

12

TOWED-DISTANCE

2.3

CATCH-WEIGHT

134.52 GR

FISHING TIME START: 0348

DEPTH RANGE TOP: 0

END: 0415

BOT: 230

TRAJECTORY: OBLIQUE

DATE: 24/ 1/81 LAT: 66 6 6 S NET: RMT

GMT: 0426 LONG: 74 6 36 E

HAUL NO029 NET TIED OPEN

TOWING-SPEED

4

WATER-DEPTH

>2000

ICE

1

STATION-NO

12

FLOWMETER-READING

35420

CATCH-WEIGHT

154.24 GR

FISHING TIME START: 0430

DEPTH RANGE TOP: 60

END: 0500

BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 24/ 1/81 LAT: 66 6 54 S NET: MISCELLANEOUS-GEAR

GMT: 0605 LONG: 74 5 6 E

HAUL NO030 VERTICAL

TOWING-SPEED 0
WATER-DEPTH >2000
ICE 1
STATION-NO 12
CATCH-WEIGHT 22.04 GR

FISHING TIME START: 0608 DEPTH RANGE TOP: 0
END: 0620 BOT: 200

TRAJECTORY: VERTICAL

DATE: 24/ 1/81 LAT: 66 24 54 S NET: BONGO

GMT: 1610 LONG: 71 35 36 E

HAUL NO031

TOWING-SPEED 4
WATER-DEPTH >2000
ICE 1
STATION-NO 13
TOWED-DISTANCE 2.4
CATCH-WEIGHT 14.56 GR

FISHING TIME START: 1617 DEPTH RANGE TOP: 0
END: 1649 BOT: 200

TRAJECTORY: OBLIQUE

DATE: 24/ 1/81 LAT: 66 24 54 S NET: MISCELLANEOUS-GEAR

GMT: 1610 LONG: 71 35 36 E

HAUL NO032 SURFACE

TOWING-SPEED 4
WATER-DEPTH >2000
ICE 1
STATION-NO 13
CATCH-WEIGHT 4.43 GR

FISHING TIME START: 1610 DEPTH RANGE TOP: 0
END: 1645 BOT: 0

TRAJECTORY: HORIZONTAL

DATE: 24/ 1/81 LAT: 66 24 24 S NET: MISCELLANEOUS-GEAR
 GMT: 1812 LONG: 71 37 6 E
 HAUL NO033 VERTICAL
 TOWING-SPEED 0
 WATER-DEPTH >2000
 ICE 1
 STATION-NO 13
 CATCH-WEIGHT 76.05 GR
 FISHING TIME START: 1831 DEPTH RANGE TOP: 0
 END: 1848 BOT: 0
 TRAJECTORY: VERTICAL

DATE: 24/ 1/81 LAT: 66 23 0 S NET: RMT
 GMT: 1858 LONG: 71 34 6 E
 HAUL NO034 NET TIED OPEN
 TOWING-SPEED 4
 WATER-DEPTH >2000
 ICE 1
 STATION-NO 13
 FLOWMETER-READING 26333
 CATCH-WEIGHT 404.53 GR
 FISHING TIME START: 1900 DEPTH RANGE TOP: 60
 END: 1930 BOT: 65
 TRAJECTORY: HORIZONTAL

DATE: 25/ 1/81 LAT: 67 21 6 S NET: BONGO
 GMT: 0241 LONG: 72 2 36 E
 HAUL NO035
 TOWING-SPEED 4
 WATER-DEPTH >2000
 ICE 0
 STATION-NO 14
 TOWED-DISTANCE 2.6
 CATCH-WEIGHT 29.10 GR
 FISHING TIME START: 0247 DEPTH RANGE TOP: 0
 END: 0319 BOT: 160
 TRAJECTORY: OBLIQUE

DATE: 25/ 1/81 LAT: 67 23 12 S NET: RMT
GMT: 0330 LONG: 72 13 42 E

HAUL NO036 NET TIED OPEN
TOWING-SPEED 4
WATER-DEPTH >2000
ICE 0
STATION-NO 14
FLOWMETER-READING 28600
CATCH-WEIGHT 1466.49 GR

FISHING TIME START: 0332 DEPTH RANGE TOP: 60
END: 0402 BOT: 65
TRAJECTORY: HORIZONTAL

DATE: 25/ 1/81 LAT: 67 23 36 S NET: MISCELLANEOUS-GEAR
GMT: 0506 LONG: 72 15 24 E

HAUL NO037 VERTICAL
TOWING-SPEED 0
WATER-DEPTH >2000
ICE 0
STATION-NO 14
CATCH-WEIGHT 0.17 GR

FISHING TIME START: 0510 DEPTH RANGE TOP: 0
END: 0523 BOT: 200
TRAJECTORY: VERTICAL

DATE: 25/ 1/81 LAT: 68 32 24 S NET: BONGO
GMT: 1512 LONG: 75 49 36 E

HAUL NO038
TOWING-SPEED 4
WATER-DEPTH 550
ICE 0
STATION-NO 15
TOWED-DISTANCE 2.6
CATCH-WEIGHT 14.89 GR

FISHING TIME START: 1520 DEPTH RANGE TOP: 0
END: 1554 BOT: 170
TRAJECTORY: OBLIQUE

DATE: 25/ 1/81 LAT: 68 32 24 S NET: MISCELLANEOUS-GEAR

GMT: 1514 LONG: 75 49 36 E

HAUL NO039 SURFACE

TOWING-SPEED 4
WATER-DEPTH 550
ICE 0
STATION-NO 15
CATCH-WEIGHT 1.29 GR

FISHING TIME START: 1514
END: 1548

DEPTH RANGE TOP: 0
BOT: 0

TRAJECTORY: HORIZONTAL

DATE: 25/ 1/81 LAT: 68 34 36 S NET: MISCELLANEOUS-GEAR

GMT: 1649 LONG: 75 50 18 E

HAUL NO040 VERTICAL

TOWING-SPEED 0
WATER-DEPTH 550
ICE 0
STATION-NO 15
CATCH-WEIGHT 16.88 GR

FISHING TIME START: 1655
END: 1705

DEPTH RANGE TOP: 0
BOT: 400

TRAJECTORY: VERTICAL

DATE: 25/ 1/81 LAT: 68 34 36 S NET: RMT

GMT: 1713 LONG: 75 56 0 E

HAUL NO041 NET TIED OPEN

TOWING-SPEED 4
WATER-DEPTH 550
ICE 0
STATION-NO 15
FLOWMETER-READING 29250
CATCH-WEIGHT 158.27 GR

FISHING TIME START: 1717
END: 1747

DEPTH RANGE TOP: 60
BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 28/ 1/81 LAT: 68 30 6 S NET: RMT
GMT: 1655 LONG: 76 26 24 E

HAUL NO042 NET TIED OPEN
TOWING-SPEED 4
WATER-DEPTH 650
ICE 2
STATION-NO 16
FLOWMETER-READING 27460
CATCH-WEIGHT 12.98 GR

FISHING TIME START: 1701 DEPTH RANGE TOP: 60
END: 1731 BOT: 65
TRAJECTORY: HORIZONTAL

DATE: 29/ 1/81 LAT: 68 31 42 S NET: BONGO
GMT: 0245 LONG: 71 31 24 E

HAUL NO043 NEAR AMERY ICE SHELF
TOWING-SPEED 4
WATER-DEPTH 370
ICE 2
STATION-NO 17
TOWED-DISTANCE 2.5
CATCH-WEIGHT 3.10 GR

FISHING TIME START: 0251 DEPTH RANGE TOP: 0
END: 0324 BOT: 210
TRAJECTORY: OBLIQUE

DATE: 29/ 1/81 LAT: 68 33 36 S NET: RMT
GMT: 0333 LONG: 71 28 48 E

HAUL NO044 NET TIED OPEN
TOWING-SPEED 4
WATER-DEPTH 400
ICE 2
STATION-NO 17
FLOWMETER-READING 28420
CATCH-WEIGHT 78.40 GR

FISHING TIME START: 0337 DEPTH RANGE TOP: 60
END: 0407 BOT: 65
TRAJECTORY: HORIZONTAL

DATE: 29/ 1/81 LAT: 68 35 48 S NET: MISCELLANEOUS-GEAR

GMT: 0450 LONG: 71 36 24 E HORIZONTAL

HAUL NO045 VERTICAL

TOWING-SPEED 0

WATER-DEPTH 400

ICE 2

STATION-NO 17

CATCH-WEIGHT 3.81 GR

FISHING TIME START: 0502
END: 0509

DEPTH RANGE TOP: 0
BOT: 350

TRAJECTORY: VERTICAL

DATE: 29/ 1/81 LAT: 66 46 6 S NET: BONGO

GMT: 1525 LONG: 70 30 54 E HORIZONTAL

HAUL NO046 STATION OVER CONTINENTAL SHELF BREAK

TOWING-SPEED 4

WATER-DEPTH ~1400

ICE 0

STATION-NO 18

TOWED-DISTANCE 2.65

CATCH-WEIGHT 48.13 GR

FISHING TIME START: 1531
END: 1604

DEPTH RANGE TOP: 0
BOT: 320

TRAJECTORY: OBLIQUE

DATE: 29/ 1/81 LAT: 66 46 6 S NET: MISCELLANEOUS-GEAR

GMT: 1527 LONG: 70 30 54 E HORIZONTAL

HAUL NO047 SURFACE STATION OVER CONTINENTAL SHELF BREAK

TOWING-SPEED 4

WATER-DEPTH ~1400

ICE 0

STATION-NO 18

CATCH-WEIGHT 3.94 GR

FISHING TIME START: 1527
END: 1600

DEPTH RANGE TOP: 0
BOT: 0

TRAJECTORY: HORIZONTAL

DATE: 29/ 1/81 LAT: 66 49 12 S NET: MISCELLANEOUS-GEAR

GMT: 1650 LONG: 70 24 36 E

HAUL NO048 VERTICAL STATION OVER CONTINENTAL SHELF BREAK

TOWING-SPEED 0

WATER-DEPTH 758

ICE 0

STATION-NO 18

CATCH-WEIGHT 69.11 GR

FISHING TIME START: 1705

DEPTH RANGE TOP: 0

END: 1720

BOT: 600

TRAJECTORY: VERTICAL

DATE: 29/ 1/81 LAT: 66 51 0 S

NET: RMT

GMT: 1726 LONG: 70 25 0 E

HAUL NO049 NET TIED OPEN STATION OVER CONTINENTAL SHELF

TOWING-SPEED 4

WATER-DEPTH 440

ICE 0

STATION-NO 18

FLOWMETER-READING 27740

CATCH-WEIGHT 187.84 GR

FISHING TIME START: 1734

DEPTH RANGE TOP: 60

END: 1804

BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 30/ 1/81 LAT: 66 0 0 S

NET: OBONGO

GMT: 0351 LONG: 67 35 36 E

HAUL NO050

TOWING-SPEED 4

WATER-DEPTH ~3000

ICE 0

STATION-NO 19

TOWED-DISTANCE 2.6

CATCH-WEIGHT 73.09 GR

FISHING TIME START: 0357

DEPTH RANGE TOP: 0

END: 0429

BOT: 220

TRAJECTORY: OBLIQUE

DATE: 30/11/81 LAT: 66 2 24 S NET: RMT

GMT: 0440 LONG: 67 38 30 E TRAJECTORY: HORIZONTAL

HAUL NO051 NET TIED OPEN

TOWING-SPEED 4
WATER-DEPTH 2900
ICE 0
STATION-NO 19
FLOWMETER-READING 27970
CATCH-WEIGHT 1974.17 GR

FISHING TIME START: 0442 DEPTH RANGE TOP: 60
END: 0512 BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 30/ 1/81 LAT: 66 3 0 S NET: MISCELLANEOUS-GEAR

GMT: 0635 LONG: 67 39 18 E

HAUL NO052 VERTICAL

TOWING-SPEED 0
WATER-DEPTH 2900
ICE 0
STATION-NO 19
CATCH-WEIGHT 19.82 GR

FISHING TIME START: 0645 DEPTH RANGE TOP: 0
END: 0650 BOT: 600

TRAJECTORY: VERTICAL

DATE: 30/ 1/81 LAT: 66 10 30 S NET: BONGO

GMT: 1625 LONG: 63 18 42 E

HAUL NO053

TOWING-SPEED 4
WATER-DEPTH 3100
ICE 0
STATION-NO 20
TOWED-DISTANCE 2.6
CATCH-WEIGHT 183.00 GR

FISHING TIME START: 1633 DEPTH RANGE TOP: 0
END: 1705 BOT: 150

TRAJECTORY: OBLIQUE

DATE: 30/ 1/81 LAT: 66 12 42 S NET: MISCELLANEOUS-GEAR

GMT: 1800 LONG: 63 18 42 E

HAUL NO055 VERTICAL

TOWING-SPEED 0

WATER-DEPTH 3100

ICE 0

STATION-NO 20

CATCH-WEIGHT 118.30 GR

FISHING TIME START: 1824

DEPTH RANGE TOP: 0

END: 1836

DEPTH RANGE BOT: 0

TRAJECTORY: VERTICAL

DATE: 30/ 1/81 LAT: 66 13 42 S NET: RMT

GMT: 1845 LONG: 63 20 36 E

HAUL NO056 NET TIED OPEN

TOWING-SPEED 4

WATER-DEPTH 3100

ICE 0

STATION-NO 20

FLOWMETER-READING 28100

CATCH-WEIGHT 8419.06 GR

FISHING TIME START: 1850

DEPTH RANGE TOP: 60

END: 1920

DEPTH RANGE BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 31/ 1/81 LAT: 66 34 18 S NET: RMT

GMT: 0700 LONG: 63 18 54 E

HAUL NO057 NET TIED OPEN

TOWING-SPEED 3

WATER-DEPTH 3000

ICE 0

STATION-NO 21

FLOWMETER-READING 26245

CATCH-WEIGHT 340.33 GR

FISHING TIME START: 0702

DEPTH RANGE TOP: 23

END: 0736

DEPTH RANGE BOT: 27

TRAJECTORY: HORIZONTAL

DATE: 13/ 2/81 LAT: 64 22 24 S NET: BONGO
GMT: 1724 LONG: 69 51 48 E

HAUL NO058
TOWING-SPEED 4
WATER-DEPTH 3000
ICE 0
STATION-NO 22
TOWED-DISTANCE 2.6
CATCH-WEIGHT 39.41 GR

FISHING TIME START: 1730 DEPTH RANGE TOP: 0
END: 1802 BOT: 190
TRAJECTORY: OBLIQUE

DATE: 14/ 2/81 LAT: 63 13 48 S NET: BONGO
GMT: 0500 LONG: 71 12 12 E

HAUL NO059
TOWING-SPEED 4
WATER-DEPTH 4000
ICE 0
STATION-NO 23
TOWED-DISTANCE 2.1
CATCH-WEIGHT 1146.51 GR

FISHING TIME START: 0506 DEPTH RANGE TOP: 0
END: 0538 BOT: 135
TRAJECTORY: OBLIQUE

DATE: 14/ 2/81 LAT: 63 13 36 S NET: RMT
GMT: 0558 LONG: 71 21 0 E

HAUL NO060 NET TIED OPEN
TOWING-SPEED 4
WATER-DEPTH 4000
ICE 0
STATION-NO 23
FLOWMETER-READING 30270
CATCH-WEIGHT 483.65 GR

FISHING TIME START: 0600 DEPTH RANGE TOP: 60
END: 0631 BOT: 65
TRAJECTORY: HORIZONTAL

DATE: 14/ 2/81 LAT: 63 13 36 S NET: MISCELLANEOUS-GEAR

GMT: 0803 LONG: 71 21 0 E

HAUL NO061 VERTICAL

TOWING-SPEED 0
WATER-DEPTH 4000
ICE 0
STATION-NO 23
CATCH-WEIGHT 11.17 GR

FISHING TIME START: 1812 DEPTH RANGE TOP: 0
END: 1815 BOT: 500

TRAJECTORY: VERTICAL

DATE: 14/ 2/81 LAT: 63 15 54 S NET: BONGO

GMT: 1707 LONG: 73 28 42 E

HAUL NO062

TOWING-SPEED 4
WATER-DEPTH 4000
ICE 0
STATION-NO 24
TOWED-DISTANCE 2.7
CATCH-WEIGHT 231.07 GR

FISHING TIME START: 1713 DEPTH RANGE TOP: 0
END: 1747 BOT: 180

TRAJECTORY: OBLIQUE

DATE: 14/ 2/81 LAT: 63 18 36 S NET: RMT

GMT: 1804 LONG: 73 22 24 E

HAUL NO063 NET TIED OPEN

TOWING-SPEED 4
WATER-DEPTH 4000
ICE 0
STATION-NO 24
FLOWMETER-READING 32970
CATCH-WEIGHT 6924.91 GR

FISHING TIME START: 1809 DEPTH RANGE TOP: 60
END: 1840 BOT: 65

TRAJECTORY: HORIZONTAL

DATE: 14/ 2/81 LAT: 63 18 6 S NET: MISCELLANEOUS-GEAR
 GMT: 2007 LONG: 73 18 0 E
 HAUL NO064 VERTICAL
 TOWING-SPEED 0
 WATER-DEPTH 4000
 ICE 0
 STATION-NO 24
 CATCH-WEIGHT 14.05 GR
 FISHING TIME START: 2012 DEPTH RANGE TOP: 0
 END: 2021 BOT: 500
 TRAJECTORY: VERTICAL

DATE: 15/ 2/81 LAT: 63 12 42 S NET: RMT
 GMT: 1210 LONG: 78 23 42 E
 HAUL NO065
 TOWING-SPEED 4
 WATER-DEPTH >4000
 SEA-TEMPERATURE-AT-NET -1.6
 NET-OPEN-TIME 1218
 NET-CLOSE-TIME 1248
 ICE 0
 STATION-NO 25
 FLOWMETER-READING 37840
 CATCH-WEIGHT 186.53 GR
 FISHING TIME START: 1218 DEPTH RANGE TOP: 50
 END: 1248 BOT: 80
 TRAJECTORY: HORIZONTAL

DATE: 15/ 2/81 LAT: 63 10 36 S NET: RMT
 GMT: 1715 LONG: 79 38 24 E
 HAUL NO066
 TOWING-SPEED
 WATER-DEPTH >4000
 SEA-TEMPERATURE-AT-NET -0.7
 TARGET-LEVELS 60
 NET-OPEN-TIME 1726
 NET-CLOSE-TIME 1756
 ICE 0
 STATION-NO 26
 FLOWMETER-READING 49950
 CATCH-WEIGHT 7674.55 GR
 FISHING TIME START: 1726 DEPTH RANGE TOP: 58
 END: 1756 BOT: 62
 TRAJECTORY: HORIZONTAL

DATE: 15/ 2/81 LAT: 63 10 36 S NET: BONGO

GMT: 1819 LONG: 79 38 24 E BONGO

HAUL NO067

TOWING-SPEED

4

WATER-DEPTH

>4000

ICE

0

STATION-NO

26

TOWED-DISTANCE

2.8

CATCH-WEIGHT

121.74 GR

FISHING TIME START: 1824
END: 1855

DEPTH RANGE TOP: 0
BOT: 150

TRAJECTORY: OBLIQUE

DATE: 16/ 2/81 LAT: 63 13 42 S NET: BONGO

GMT: 0452 LONG: 83 8 6 E

HAUL NO068 NET TANGLED

TOWING-SPEED

4

WATER-DEPTH

>4000

ICE

0

STATION-NO

27

TOWED-DISTANCE

1.3

CATCH-WEIGHT

1.10 GR

FISHING TIME START: 0500
END: 0533

DEPTH RANGE TOP: 0
BOT: 225

TRAJECTORY: OBLIQUE

DATE: 16/ 2/81 LAT: 63 12 24 S NET: RMT

GMT: 0550 LONG: 83 1 6 E

HAUL NO069

TOWING-SPEED

4

WATER-DEPTH

>4000

NET-OPEN-TIME

0559

NET-CLOSE-TIME

0630

ICE

0

STATION-NO

27

FLOWMETER-READING

46410

CATCH-WEIGHT

41.62 GR

FISHING TIME START: 0559
END: 0630

DEPTH RANGE TOP: 73
BOT: 77

TRAJECTORY: HORIZONTAL

DATE: 16/ 2/81 MDR LAT: 63 17 42 S NET: BONGO

GMT: 1713 LONG: 84 34 54 E

HAUL NO070

TOWING-SPEED 4
WATER-DEPTH 2500
ICE 0
STATION-NO 28
TOWED-DISTANCE 2.4
CATCH-WEIGHT 20.16 GR

FISHING TIME START: 1719

DEPTH RANGE TOP: 0

END: 1753

BOT: 230

TRAJECTORY: OBLIQUE

DATE: 17/ 2/81

LAT: 64 27 18 S

NET: BONGO

GMT: 0500 LONG: 85 57 6 E

HAUL NO071

TOWING-SPEED 4
WATER-DEPTH 3490
ICE 1
STATION-NO 29
TOWED-DISTANCE 2.6
CATCH-WEIGHT 170.23 GR

FISHING TIME START: 0509

DEPTH RANGE TOP: 0

END: 0541

BOT: 125

TRAJECTORY: OBLIQUE

DATE: 17/ 2/81

LAT: 64 30 12 S

NET: RMT

GMT: 0550 LONG: 85 51 24 E

HAUL NO072 AIMED

TOWING-SPEED 3.8
WATER-DEPTH 3520
TARGET-LEVELS 29
NET-OPEN-TIME 0603
NET-CLOSE-TIME 0633
ICE 1
STATION-NO 29
FLOWMETER-READING 37590
CATCH-WEIGHT 6620.80 GR

FISHING TIME START: 0603

DEPTH RANGE TOP: 27

END: 0633

BOT: 31

TRAJECTORY: HORIZONTAL

DATE: 17/ 2/81 LAT: 64 50 48 S NET: BONGO

GMT: 1713 LONG: 84 10 48 E

HAUL NO073
TOWING-SPEED 3
WATER-DEPTH 3500
ICE 3
STATION-NO 30
TOWED-DISTANCE 1.9
CATCH-WEIGHT 38.65 GR

FISHING TIME START: 1724 DEPTH RANGE TOP: 0
END: 1758 BOT: 220

TRAJECTORY: OBLIQUE

DATE: 17/ 2/81 LAT: 64 51 6 S NET: RMT

GMT: 1807 LONG: 84 17 54 E

HAUL NO074 AIMED
TOWING-SPEED 3
WATER-DEPTH 3500
SEA-TEMPERATURE-AT-NET -1.7
TARGET-LEVELS 60
NET-OPEN-TIME 1817
NET-CLOSE-TIME 1847
ICE 3
STATION-NO 30
FLOWMETER-READING 34370
CATCH-WEIGHT 559.63 GR

FISHING TIME START: 1817 DEPTH RANGE TOP: 58
END: 1847 BOT: 62

TRAJECTORY: HORIZONTAL

DATE: 18/ 2/81 LAT: 64 18 36 S NET: BONGO

GMT: 0500 LONG: 81 51 42 E

HAUL NO075
TOWING-SPEED 3
WATER-DEPTH 3720
ICE 0
STATION-NO 31
TOWED-DISTANCE 2.3
CATCH-WEIGHT 5.50 GR

FISHING TIME START: 0509 DEPTH RANGE TOP: 0
END: 0541 BOT: 200

TRAJECTORY: OBLIQUE

DATE: 18/ 2/81 LAT: 64 20 36 S NET: RMT
 GMT: 0551 LONG: 81 53 42 E DEPTH RANGE TOP: 73
 DEPTH RANGE BOT: 77
 HAUL NO076
 TOWING-SPEED 3
 WATER-DEPTH 3713
 NET-OPEN-TIME 0600
 NET-CLOSE-TIME 0630
 ICE 0
 STATION-NO 31
 FLOWMETER-READING 30250
 CATCH-WEIGHT 194.96 GR
 FISHING TIME START: 0600 DEPTH RANGE TOP: 73
 END: 0630 DEPTH RANGE BOT: 77
 TRAJECTORY: HORIZONTAL DEPTH RANGE

 DATE: 18/ 2/81 LAT: 64 18 24 S NET: RMT
 GMT: 1055 LONG: 80 54 24 E DEPTH RANGE TOP: 83
 DEPTH RANGE BOT: 87
 HAUL NO077 AIMED TARGET NO 1
 TOWING-SPEED 3
 WATER-DEPTH 3700
 TARGET-LEVELS 85
 NET-OPEN-TIME 1102
 NET-CLOSE-TIME 1104
 ICE 0
 STATION-NO 32
 FLOWMETER-READING 17.56 GR
 CATCH-WEIGHT 17.56 GR
 FISHING TIME START: 1059 DEPTH RANGE TOP: 83
 END: 1104 DEPTH RANGE BOT: 87
 TRAJECTORY: HORIZONTAL DEPTH RANGE

 DATE: 18/ 2/81 LAT: 64 18 24 S NET: RMT
 GMT: 1127 LONG: 80 54 24 E DEPTH RANGE TOP: 93
 DEPTH RANGE BOT: 97
 HAUL NO078 AIMED TARGET NO 2
 TOWING-SPEED 3
 WATER-DEPTH 3700
 TARGET-LEVELS 95
 NET-OPEN-TIME 1133
 NET-CLOSE-TIME 1136
 ICE 0
 STATION-NO 32
 CATCH-WEIGHT 11.26 GR
 FISHING TIME START: 1130 DEPTH RANGE TOP: 93
 END: 1136 DEPTH RANGE BOT: 97
 TRAJECTORY: HORIZONTAL DEPTH RANGE

DATE: 18/ 2/81 LAT: 64 20 30 S NET: RMT

GMT: 1203 LONG: 80 51 6 E

HAUL NO079 AIMED TARGET NO 3

TOWING-SPEED 3
WATER-DEPTH 3700
TARGET-LEVELS 120 TO 140
NET-OPEN-TIME 1208
NET-CLOSE-TIME 1213
ICE 0
STATION-NO 32
CATCH-WEIGHT 9.85 GR

FISHING TIME START: 1207 DEPTH RANGE TOP: 118
END: 1213 BOT: 122
TRAJECTORY: HORIZONTAL

DATE: 18/ 2/81 LAT: 64 18 18 S NET: RMT

GMT: 1713 LONG: 78 43 54 E

HAUL NO080
TOWING-SPEED 3
WATER-DEPTH 3700
SEA-TEMPERATURE-AT-NET -1.1
ICE 0
STATION-NO 33
CATCH-WEIGHT 1684.06 GR

FISHING TIME START: 1742 DEPTH RANGE TOP: 930
END: 1812 BOT: 980
TRAJECTORY: HORIZONTAL

DATE: 19/ 2/81 LAT: 64 13 30 S NET: BONGO

GMT: 0458 LONG: 75 14 18 E

HAUL NO081
TOWING-SPEED 3
WATER-DEPTH 3620
ICE 0
STATION-NO 34
TOWED-DISTANCE 2.1
CATCH-WEIGHT 51.40 GR

FISHING TIME START: 0504 DEPTH RANGE TOP: 0
END: 0538 BOT: 200
TRAJECTORY: OBLIQUE

DATE: 19/ 2/81 LAT: 64 12 48 S NET: RMT
 GMT: 0549 LONG: 74 57 54 E

HAUL NO082
 TOWING-SPEED 3
 WATER-DEPTH 3500
 NET-OPEN-TIME 0552
 NET-CLOSE-TIME 0622
 ICE 0
 SEA-TEMPERATURE-AT-NET -0.6
 STATION-NO 34
 FLOWMETER-READING 22270
 CATCH-WEIGHT 120.39 GR

FISHING TIME START: 0552 DEPTH RANGE TOP: 73
 END: 0622 DEPTH RANGE BOT: 77
 TRAJECTORY: HORIZONTAL

DATE: 19/ 2/81 LAT: 64 13 18 S NET: RMT
 GMT: 0911 LONG: 74 39 18 E

HAUL NO083 AIMED TARGET NO 4
 TOWING-SPEED 3
 WATER-DEPTH 3500
 NET-OPEN-TIME 0921
 NET-CLOSE-TIME 0931
 ICE 0
 STATION-NO 35
 CATCH-WEIGHT 119.83 GR

FISHING TIME START: 0914 DEPTH RANGE TOP: 78
 END: 0931 DEPTH RANGE BOT: 82
 TRAJECTORY: HORIZONTAL

DATE: 19/ 2/81 LAT: 64 11 48 S NET: RMT
 GMT: 0947 LONG: 74 36 54 E

HAUL NO084 AIMED TARGET NO 5
 TOWING-SPEED 3
 WATER-DEPTH 3677
 SEA-TEMPERATURE-AT-NET +0.9
 NET-OPEN-TIME 0956
 NET-CLOSE-TIME 1007
 ICE 0
 STATION-NO 35
 CATCH-WEIGHT 1057.16 GR

FISHING TIME START: 0951 DEPTH RANGE TOP: 108
 END: 1007 DEPTH RANGE BOT: 112
 TRAJECTORY: HORIZONTAL

DATE: 19/ 2/81 LAT: 64 11 42 S NET: RMT
GMT: 1018 LONG: 74 34 24 E

HAUL NO085 AIMED TARGET NO 6
TOWING-SPEED 3
WATER-DEPTH 3600
TARGET-LEVELS
NET-OPEN-TIME 1027
NET-CLOSE-TIME 1050
ICE 0
STATION-NO 35
CATCH-WEIGHT 8380.85 GR

FISHING TIME START: 1023 DEPTH RANGE TOP: 73
END: 1050 BOT: 77
TRAJECTORY: HORIZONTAL

DATE: 19/ 2/81 LAT: 64 10 42 S NET: RMT
GMT: 1111 LONG: 74 29 12 E

HAUL NO086 AIMED TARGET NO 7
TOWING-SPEED 3
WATER-DEPTH 3600
TARGET-LEVELS
NET-OPEN-TIME 1118
NET-CLOSE-TIME 1138
ICE 0
STATION-NO 35
CATCH-WEIGHT 1294.13 GR

FISHING TIME START: 1115 DEPTH RANGE TOP: 53
END: 1138 BOT: 57
TRAJECTORY: HORIZONTAL

DATE: 19/ 2/81 LAT: 64 15 54 S NET: BONGO

GMT: 1710 LONG: 72 14 36 E

HAUL NO087 FLOWMETER MALFUNCTION

TOWING-SPEED 3
WATER-DEPTH 3600
ICE 0
STATION-NO 36

CATCH-WEIGHT 47.36 GR

FISHING TIME START: 1713 DEPTH RANGE TOP: 0
END: 1750 BOT: 0
TRAJECTORY: OBLIQUE

DATE: 19/ 2/81 LAT: 64 14 54 S NET: RMT
GMT: 1752 LONG: 72 8 18 E

HAUL NO088
TOWING-SPEED 3
WATER-DEPTH 3610
SEA-TEMPERATURE-AT-NET -1.3
NET-OPEN-TIME 1804
NET-CLOSE-TIME 1834
ICE 0
STATION-NO 36
FLOWMETER-READING 24260
CATCH-WEIGHT 462.70 GR

FISHING TIME START: 1800 DEPTH RANGE TOP: 73
END: 1834 BOT: 77
TRAJECTORY: HORIZONTAL

DATE: 20/ 2/81 LAT: 64 2 24 S NET: BONGO
GMT: 0454 LONG: 68 35 24 E

HAUL NO089
TOWING-SPEED 3
WATER-DEPTH 3494
ICE 0
STATION-NO 37
TOWED-DISTANCE 2.25
CATCH-WEIGHT 10.84 GR

FISHING TIME START: 0500 DEPTH RANGE TOP: 0
END: 0532 BOT: 230
TRAJECTORY: OBLIQUE

DATE: 20/ 2/81 LAT: 64 4 24 S NET: RMT
GMT: 0543 LONG: 68 35 6 E

HAUL NO090
TOWING-SPEED 3
WATER-DEPTH 3410
NET-OPEN-TIME 0545
NET-CLOSE-TIME 0615
ICE 0
STATION-NO 37
FLOWMETER-READING 29350
CATCH-WEIGHT 172.11 GR

FISHING TIME START: 0545 DEPTH RANGE TOP: 73
END: 0615 BOT: 77
TRAJECTORY: HORIZONTAL

DATE: 20/ 2/81 TMR LAT: 64 8 18 S NET: RMT

GMT: 1716 LONG: 64 59 24 E

HAUL NO091
TOWING-SPEED 3
WATER-DEPTH 4032
SEA-TEMPERATURE-AT-NET -0.6
NET-OPEN-TIME 1722
NET-CLOSE-TIME 1752
ICE 0
STATION-NO 38
FLOWMETER-READING 25410
CATCH-WEIGHT 239.64 GR

FISHING TIME START: 1721 DEPTH RANGE TOP: 73
END: 1752 BOT: 77
TRAJECTORY: HORIZONTAL

DATE: 20/ 2/81 LAT: 64 11 48 S NET: BONGO

GMT: 1806 LONG: 64 52 24 E

HAUL NO092
TOWING-SPEED 3
WATER-DEPTH 4000
ICE 0
STATION-NO 38
TOWED-DISTANCE 2.55
CATCH-WEIGHT 55.12 GR

FISHING TIME START: 1812 DEPTH RANGE TOP: 0
END: 1848 BOT: 210
TRAJECTORY: OBLIQUE

DATE: 21/ 2/81 LAT: 65 0 0 S NET: BONGO

GMT: 0453 LONG: 67 0 0 E

HAUL NO093
TOWING-SPEED 3
WATER-DEPTH 3500
ICE 0
STATION-NO 39
TOWED-DISTANCE 1.8
CATCH-WEIGHT 13.13 GR

FISHING TIME START: 0459 DEPTH RANGE TOP: 0
END: 0531 BOT: 280
TRAJECTORY: OBLIQUE

DATE: 21/ 2/81 LAT: 64 59 36 S NET: RMT

GMT: 0542 LONG: 67 3 30 E

HAUL NO094 AIMED TARGET NO 8

TOWING-SPEED 3
WATER-DEPTH 3500
SEA-TEMPERATURE-AT-NET -1.25
TARGET-LEVELS 60
NET-OPEN-TIME 0551
NET-CLOSE-TIME 0621
ICE 0
STATION-NO 39
FLOWMETER-READING 28570
CATCH-WEIGHT 567.33 GR

FISHING TIME START: 0548 DEPTH RANGE TOP: 58
END: 0621 BOT: 62

TRAJECTORY: HORIZONTAL

DATE: 21/ 2/81 LAT: 64 59 54 S NET: RMT

GMT: 1002 LONG: 68 2 18 E

HAUL NO095 AIMED TARGET NO 9

TOWING-SPEED 3
WATER-DEPTH 2838
TARGET-LEVELS 50
NET-OPEN-TIME 1010
NET-CLOSE-TIME 1020
ICE 0
STATION-NO 40
CATCH-WEIGHT 886.50 GR

FISHING TIME START: 1006 DEPTH RANGE TOP: 48
END: 1020 BOT: 52

TRAJECTORY: HORIZONTAL

DATE: 21/ 2/81 LAT: 64 59 54 S NET: RMT

GMT: 1028 LONG: 68 6 12 E

HAUL NO096 AIMED TARGET NO 10

TOWING-SPEED 3
WATER-DEPTH 2807
TARGET-LEVELS 30
NET-OPEN-TIME 1035
NET-CLOSE-TIME 1051
ICE 0
STATION-NO 40
CATCH-WEIGHT 2403.69 GR

FISHING TIME START: 1031 DEPTH RANGE TOP: 28
END: 1051 BOT: 32

TRAJECTORY: HORIZONTAL

DATE: 21/ 2/81 LAT: 64 59 54 S NET: RMT

GMT: 1118 LONG: 68 11 0 E

HAUL NO097 AIMED TARGET NO 11
TOWING-SPEED 3
WATER-DEPTH 2825
TARGET-LEVELS 40
NET-OPEN-TIME 1124
NET-CLOSE-TIME 1130
ICE 0
STATION-NO 40
CATCH-WEIGHT 335.66 GR

FISHING TIME START: 1121 DEPTH RANGE TOP: 38
END: 1130 BOT: 42

TRAJECTORY: HORIZONTAL

DATE: 21/ 2/81 LAT: 65 2 6 S NET: RMT

GMT: 1700 LONG: 70 35 48 E

HAUL NO098
TOWING-SPEED 3
WATER-DEPTH 3240
SEA-TEMPERATURE-AT-NET -1.5
NET-OPEN-TIME 1706
NET-CLOSE-TIME 1736
ICE 0
STATION-NO 41
FLOWMETER-READING 55350?
CATCH-WEIGHT 162.03 GR

FISHING TIME START: 1706 DEPTH RANGE TOP: 73
END: 1736 BOT: 77

TRAJECTORY: HORIZONTAL

DATE: 21/ 2/81 LAT: 65 3 54 S NET: BONGO

GMT: 1748 LONG: 70 33 6 E

HAUL NO099
TOWING-SPEED 3
WATER-DEPTH 3227
ICE 0
STATION-NO 41
TOWED-DISTANCE 2.35
CATCH-WEIGHT 70.76 GR

FISHING TIME START: 1754 DEPTH RANGE TOP: 0
END: 1820 BOT: 220

TRAJECTORY: CBLIQUE

DATE: 22/ 2/81 LAT: 65 21 42 S NET: BONGO

GMT: 0451 LONG: 73 59 30 E

HAUL NO 100
TOWING-SPEED 3
WATER-DEPTH 3175
ICE 1
STATION-NO 42
TOWED-DISTANCE 2.1
CATCH-WEIGHT 48.70 GR

FISHING TIME START: 0455 DEPTH RANGE TOP: 0
END: 0527 BOT: 265
TRAJECTORY: OBLIQUE

DATE: 22/ 2/81 LAT: 65 23 30 S NET: RMT

GMT: 0540 LONG: 73 57 30 E

HAUL NO 101
TOWING SPEED 3
WATER-DEPTH 3156
SEA-TEMPERATURE-AT-NET -1.7
NET-OPEN-TIME 0541
NET-CLOSE-TIME 0611
ICE 1
STATION-NO 42
FLOWMETER-READING 22360
CATCH-WEIGHT 97.06 GR

FISHING TIME START: 0541 DEPTH RANGE TOP: 73
END: 0611 BOT: 77
TRAJECTORY: HORIZONTAL

DATE: 22/ 2/81 LAT: 65 57 6 S NET: RMT

GMT: 1107 LONG: 74 1 54 E

HAUL NO 102 AIMED TARGET NO 12
TOWING-SPEED 3
WATER-DEPTH 2760
SEA-TEMPERATURE-AT-NET -1.7
NET-OPEN-TIME 1112
NET-CLOSE-TIME 1140
TARGET-LEVELS 80
ICE 2
STATION-NO 43
CATCH-WEIGHT 1349.37 GR

FISHING TIME START: 1109 DEPTH RANGE TOP: 78
END: 1140 BOT: 82
TRAJECTORY: HORIZONTAL

DATE: 22/ 2/81 LAT: 65 40 48 S NET: BONGO

GMT: 1658 LONG: 75 35 36 E

HAUL NO 103
TOWING-SPEED 3
WATER-DEPTH 3265
ICE 2
STATION-NO 44
TOWED-DISTANCE 2.0
CATCH-WEIGHT 32.12 GR

FISHING TIME START: 1703 DEPTH RANGE TOP: 0
END: 1733 BOT: 300

TRAJECTORY: OBLIQUE

DATE: 22/ 2/81 LAT: 65 42 30 S NET: RMT

GMT: 1744 LONG: 75 34 30 E

HAUL NO 104
TOWING-SPEED 3
WATER-DEPTH 3252
SEA-TEMPERATURE-AT-NET -1.5
NET-OPEN-TIME 1746
NET-CLOSE-TIME 1816
ICE 2
STATION-NO 44
FLOWMETER-READING 60370?
CATCH-WEIGHT 101.53 GR

FISHING TIME START: 1746 DEPTH RANGE TOP: 73
END: 1816 BOT: 77

TRAJECTORY: HORIZONTAL

DATE: 22/ 2/81 LAT: 65 43 12 S NET: RMT

GMT: 2007 LONG: 75 31 30 E

HAUL NO 105 AIMED TARGET NO 13
TOWING-SPEED 3
WATER-DEPTH 3237
SEA-TEMPERATURE-AT-NET -0.8
TARGET-LEVELS 12
NET-OPEN-TIME 2008
NET-CLOSE-TIME 2025
ICE 2
STATION-NO 44
FLOWMETER-READING 13050
CATCH-WEIGHT 1681.58 GR

FISHING TIME START: 2008 DEPTH RANGE TOP: 10
END: 2025 BOT: 14

TRAJECTORY: HORIZONTAL

DATE: 23/ 2/81 LAT: 65 28 24 S NET: RMT

GMT: 0452 LONG: 77 43 24 E

HAUL NO 106
TOWING-SPEED 3
WATER-DEPTH 3324
NET-OPEN-TIME 0455
NET-CLOSE-TIME 0525
ICE 3
STATION-NO 45
FLOWMETER-READING 23280
CATCH-WEIGHT 83.15 GR

FISHING TIME START: 0455 DEPTH RANGE TOP: 73
END: 0525 BOT: 77
TRAJECTORY: HORIZONTAL

DATE: 23/ 2/81 LAT: 65 29 36 S NET: BONGO

GMT: 0539 LONG: 77 51 0 E

HAUL NO 107
TOWING-SPEED 3
WATER-DEPTH 3300
ICE 3
STATION-NO 45
TOWED-DISTANCE 2.5
CATCH-WEIGHT 6.22 GR

FISHING TIME START: 0543 DEPTH RANGE TOP: 0
END: 0615 BOT: 250
TRAJECTORY: OBLIQUE

DATE: 24/ 2/81 LAT: 65 19 30 S NET: RMT

GMT: 1709 LONG: 76 33 42 E

HAUL NO 108 AIMED TARGET NO 14
TOWING-SPEED 3
WATER-DEPTH 3500
SEA-TEMPERATURE-AT-NET -1.5
TARGET-LEVELS 110
NET-OPEN-TIME 1714
NET-CLOSE-TIME 1744
ICE 0
STATION-NO 46
FLOWMETER-READING 27220
CATCH-WEIGHT 526.10 GR

FISHING TIME START: 1713 DEPTH RANGE TOP: 108
END: 1744 BOT: 112
TRAJECTORY: HORIZONTAL

DATE: 24/ 2/81 LAT: 65 20 36 S NET: BONGO

GMT: 1758 LONG: 76 26 12 E

HAUL NO 109

TOWING-SPEED 3
WATER-DEPTH 3500
ICE 0
STATION-NO 46
TOWED-DISTANCE 2.6
CATCH-WEIGHT 32.85 GR

FISHING TIME START: 1804
END: 1836

DEPTH RANGE TOP: 0
BOT: 160

TRAJECTORY: OBLIQUE

DATE: 3/ 3/81 LAT: 67 24 6 S NET: RMT

GMT: 2018 LONG: 71 1 42 E

HAUL NO 110 AIMED TARGET NO 15

TOWING-SPEED 3
WATER-DEPTH 387
TARGET-LEVELS 115
NET-OPEN-TIME 2022
NET-CLOSE-TIME 2052
ICE 3
STATION-NO 47
FLOWMETER-READING 27380
CATCH-WEIGHT 382.20 GR

FISHING TIME START: 2022
END: 2052

DEPTH RANGE TOP: 113
BOT: 117

TRAJECTORY: HORIZONTAL

DATE: 3/ 3/81 LAT: 67 22 6 S NET: RMT

GMT: 2134 LONG: 70 57 36 E

HAUL NO 111 AIMED TARGET NO 16

TOWING-SPEED 3
WATER-DEPTH 345
TARGET-LEVELS 55
NET-OPEN-TIME 2136
NET-CLOSE-TIME 2206
ICE 3
STATION-NO 47
FLOWMETER-READING 32210
CATCH-WEIGHT 954.96 GR

FISHING TIME START: 213
END: 2206

DEPTH RANGE TOP: 53
BOT: 57

TRAJECTORY: HORIZONTAL

DATE: 3/ 3/81 LAT: 67 22 6 S NET: RMT
 GMT: 2234 LONG: 70 59 18 E
 HAUL NO 112 AIMED TARGET NO 17
 TOWING-SPEED 3
 WATER-DEPTH 357
 TARGET-LEVELS 15
 NET-OPEN-TIME 2236
 NET-CLOSE-TIME 2306
 ICE 3
 STATION-NO 47
 CATCH-WEIGHT 4119.69 GR
 FISHING TIME START: 2236 DEPTH RANGE TOP: 13
 END: 2306 BOT: 17
 TRAJECTORY: HORIZONTAL

DATE: 8/ 3/81 LAT: 66 46 30 S NET: BONGO
 GMT: 1240 LONG: 63 14 18 E
 HAUL NO 113
 TOWING-SPEED 3
 WATER-DEPTH 281
 ICE 2
 STATION-NO 48
 TOWED-DISTANCE 1.9
 CATCH-WEIGHT 1.64 GR
 FISHING TIME START: 1245 DEPTH RANGE TOP: 0
 END: 1317 BOT: 270
 TRAJECTORY: OBLIQUE

DATE: 8/ 3/81 LAT: 66 47 42 S NET: RMT
 GMT: 1329 LONG: 63 17 42 E
 HAUL NO 114
 TOWING-SPEED 3
 WATER-DEPTH 296
 NET-OPEN-TIME 1331
 NET-CLOSE-TIME 1353
 ICE 2
 STATION-NO 48
 FLOWMETER-READING 19350
 CATCH-WEIGHT 157.91 GR
 FISHING TIME START: 1331 DEPTH RANGE TOP: 73
 END: 1353 BOT: 77
 TRAJECTORY: HORIZONTAL

DATE: 8/ 3/81 TMR LAT: 66 3 48 S NET: RMT

GMT: 2147 LONG: 62 59 48 E

HAUL NO 115 AIMED TARGET NO 18
TOWING-SPEED 3
WATER-DEPTH ~1000
TARGET-LEVELS 125
NET-OPEN-TIME 2152
NET-CLOSE-TIME 2222
ICE 2
STATION-NO 49
FLOWMETER-READING 32350
CATCH-WEIGHT 1548.09 GR

FISHING TIME START: 2152 DEPTH RANGE TOP: 123
END: 2222 BOT: 127
TRAJECTORY: HORIZONTAL

DATE: 8/ 3/81 LAT: 66 5 36 S NET: RMT

GMT: 2236 LONG: 63 4 54 E

HAUL NO 116 AIMED TARGET NO 19
TOWING-SPEED 3
WATER-DEPTH 939
TARGET-LEVELS 15
NET-OPEN-TIME 2240
NET-CLOSE-TIME 2310
ICE 2
STATION-NO 49
FLOWMETER-READING 19160
CATCH-WEIGHT 1663.57 GR

FISHING TIME START: 2240 DEPTH RANGE TOP: 13
END: 2310 BOT: 17
TRAJECTORY: HORIZONTAL

DATE: 9/ 3/81 LAT: 64 17 54 S NET: RMT

GMT: 1042 LONG: 61 55 30 E

HAUL NO 117
TOWING-SPEED 3
WATER-DEPTH 3900
SEA-TEMPERATURE-AT-NET +0.5
NET-OPEN-TIME 1045
NET-CLOSE-TIME 1115
ICE 0
STATION-NO 50
FLOWMETER-READING 22510
CATCH-WEIGHT 69.31 GR

FISHING TIME START: 1045 DEPTH RANGE TOP: 98
END: 1115 BOT: 102
TRAJECTORY: HORIZONTAL

DATE: 9/ 3/81 LAT: 64 18 36 S NET: RMT

GMT: 1124 LONG: 61 55 30 E

HAUL NO 118
TOWING-SPEED 3
WATER-DEPTH 3900
SEA-TEMPERATURE-AT-NET -0.3
NET-OPEN-TIME 1129
NET-CLOSE-TIME 1159
ICE 0
STATION-NO 50
FLOWMETER-READING 23270
CATCH-WEIGHT 8.80 GR

FISHING TIME START: 1129 DEPTH RANGE TOP: 48
END: 1159 BOT: 52
TRAJECTORY: HORIZONTAL

DATE: 9/ 3/81 LAT: 64 20 18 S NET: BONGO

GMT: 1212 LONG: 61 53 6 E

HAUL NO 119
TOWING-SPEED 3
WATER-DEPTH 3900
ICE 0
STATION-NO 50
TOWED-DISTANCE 1.9
CATCH-WEIGHT 3.08 GR

FISHING TIME START: 1217 DEPTH RANGE TOP: 0
END: 1248 BOT: 225
TRAJECTORY: OBLIQUE

DATE: 10/ 3/81 LAT: 62 10 36 S NET: RMT

GMT: 0348 LONG: 61 57 36 E

HAUL NO 120
TOWING-SPEED 3
WATER-DEPTH 4573
NET-OPEN-TIME 0353
NET-CLOSE-TIME 0423
ICE 0
STATION-NO 51
FLOWMETER-READING 22365
CATCH-WEIGHT 260.24 GR

FISHING TIME START: 0353 DEPTH RANGE TOP: 73
END: 0423 BOT: 77
TRAJECTORY: HORIZONTAL

DATE: 10/ 3/81 LAT: 62 9 6 S NET: RMT
GMT: 0436 LONG: 61 58 18 E

HAUL NO 121
TOWING-SPEED 3
WATER-DEPTH 4590
NET-OPEN-TIME 0438
NET-CLOSE-TIME 0508
ICE 0
STATION NO 51
FLOWMETER-READING 20770
CATCH-WEIGHT 123.70 GR

FISHING TIME START: 0438 DEPTH RANGE TOP: 33
END: 0508 BOT: 37
TRAJECTORY: HORIZONTAL

DATE: 10/ 3/81 LAT: 62 11 42 S NET: BONGO
GMT: 0516 LONG: 61 58 42 E

HAUL NO 122
TOWING-SPEED 3
WATER-DEPTH 4590
ICE 0
STATION-NO 51
TOWED-DISTANCE 2.0
CATCH-WEIGHT 109.85 GR

FISHING TIME START: 0520 DEPTH RANGE TOP: 0
END: 0554 BOT: 210
TRAJECTORY: OBLIQUE

DATE: 10/ 3/81 LAT: 60 25 6 S NET: BONGO
GMT: 1703 LONG: 61 57 24 E

HAUL NO 123
TOWING-SPEED 3
WATER-DEPTH ~4700
ICE 0
STATION-NO 52
TOWED-DISTANCE 1.9
CATCH-WEIGHT 55.52 GR

FISHING TIME START: 1712 DEPTH RANGE TOP: 0
END: 1744 BOT: 180
TRAJECTORY: OBLIQUE

DATE: 15/ 3/81 LAT: 54 58 48 S NET: RMT

GMT: 0657 LONG: 100 0 54 E

HAUL NO 124
TOWING-SPEED 3
WATER-DEPTH 4054
NET-OPEN-TIME 0659
NET-CLOSE-TIME 0729
ICE 0
STATION-NO 53
FLOWMETER-READING 24580
CATCH-WEIGHT 29.04 GR

FISHING TIME START: 0659 DEPTH RANGE TOP: 73
END: 0729 BOT: 77
TRAJECTORY: HORIZONTAL

DATE: 15/ 3/81 LAT: 55 1 54 S NET: RMT

GMT: 0740 LONG: 99 53 42 E

HAUL NO 125
TOWING-SPEED 3
WATER-DEPTH 4286
NET-OPEN-TIME 0746
NET-CLOSE-TIME 0948
ICE 0
STATION-NO 53
CATCH-WEIGHT 1489.04 GR

FISHING TIME START: 0815 DEPTH RANGE TOP: 930
END: 0900 BOT: 980
TRAJECTORY: HORIZONTAL

THE PERSON OF THE 22 SEPTEMBER, 1971, KILLED
 IN THE 1971 MASSACRE
 WAS IDENTIFIED AS
 A 20-YEAR-OLD MAN
 WITH THE FOLLOWING
 PHYSICAL FEATURES:
 HEIGHT - 5' 7";
 WEIGHT - 150 POUNDS;
 HAIR - BLACK,
 SHORT;
 EYES - BROWN;
 SKIN COLOR - MEDIUM;
 NO APPARENT
 DISEASES.
 THE PERSON OF THE 22 SEPTEMBER, 1971, KILLED
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 EYES - BROWN;
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 NO APPARENT
 DISEASES.

3. COMPOSITION OF CATCHES

Details of the composition of each catch are presented on the following pages.

Note:

1. All weights are in grams.
2. Species listed with a haul number with a suffix A are sub-samples of a large catch.

PROTAGONISTES

Il s'agit de deux types de protagonistes : le protagoniste principal et le protagoniste secondaire.

Le protagoniste principal est l'acteur qui joue le rôle le plus important dans la pièce, c'est à dire qui contribue le plus au développement de l'intrigue et qui est le plus impliqué dans les événements.

DATE: 17/ 1/81 AOO HAUL: 10002 NET: RMT1
 GMT: 1409 JAROT TOTAL WEIGHT: 209.77 TOTAL COUNT: 912

		WEIGHT	COUNT
1	MEDUSA INDET	2.40	24
2	SIPHONOPHORE NECTOPHORE	5.20	57
3	NEMERTINE	0.30	1
4	TOMOPTERIS CARPENTERI	51.87	76
5	TOMOPTERIS SP	1.53	9
6	SAGITTA GAZELLAE	1.79	16
7	OSTRACOD	0.60	20
8	CALANOIDES ACUTUS	1.42	424
9	RHINCALANUS GIGAS	0.12	44
10	METRIDIA GERLACHEI		2
11	COPEPOD INDET		1
12	PARATHEMISTO GAUDICHAUDI BISP	0.30	1
13	PRIMNO MACROPA	0.20	2
14	HYPERIELLA DILATATA	0.06	1
15	HYPERIA CF SPINIGERA	0.06	1
16	CLIONE LIMACINA	1.00	4
17	SPONGIOBRANCHAEA AUSTRALIS	1.10	4
18	HETEROPOD INDET	0.43	20
19	LIMACINA HELICINA	0.12	3
20	CLIO PYRAMIDATA	0.08	2
21	CRANCHIIDAE INDET	0.02	1
22	MYCTOPHID LARVA	0.15	4
23	NOTOLEPIS COATSI LARVA	0.02	1
24	CRYODRACO ANTARCTICUS	0.75	1
25	EUPHAUSIIDS E.SUPERBA	139.00	181
26	EUPHAUSIIDS T.MACRURA	1.07	12
27	RESIDUE	0.18	

DATE: 19/ 1/81 HAUL: 003 NET: BR1000A

GMT: 1102 TOTAL WEIGHT: 59.03 TOTAL COUNT: 1365

	WEIGHT	COUNT
ATOLLA WYVILLEI	22.50	1
SIPHONOPHORE NECTOPHORE	0.23	3
SAGITTA GAZELLAE	0.17	1
SAGITTA SP	0.19	3
EUKROHNIA SP	0.12	12
CHAETOGNATH INDET	0.01	2
CALANUS PROPINQUUS	0.19	23
CALANOIDES ACUTUS	0.20	28
RHINCALANUS GIGAS	11.95	938
EUCHIRELLA ROSTRATA		1
PSEUDOCHIRELLA SP		1
EUCHAETA ANTARCTICA		8
METRIDIA GERLACHEI	0.20	17
PARATHEMISTO GAUDICHAUDI BISP	10.40	280
PARATHEMISTO GAUDICHAUDI COMP	0.10	1
PRIMNO MACROPA	0.14	4
NEMATOCARCINUS SP LARVA	0.10	1
ALPHAEIDAE LARVA	0.02	3
SPONGIOBRANCHAEA AUSTRALIS	0.23	1
CRANCHIIDAE INDET	0.04	3
NOTOLEPIS COATSI LARVA	0.06	3
EUPHAUSIIDS E.SUPERBA	11.02	15
EUPHAUSIIDS E.FRIGIDA	0.06	3
EUPHAUSIIDS E.TRIACANTHA	0.61	5
EUPHAUSIIDS T.MACRURA	0.10	2
EUPHAUSIIDS THYSANOESSA SP	0.08	4
EUPHAUSIIDS THYSANOESSA SP F2		1
EUPHAUSIIDS THYSANOESSA SP F4		1
RESIDUE	0.31	

DATE: 20/ 1/81 HAUL: 004 NET: RMT1
 GMT: 0413 TOTAL WEIGHT: 1142.56 TOTAL COUNT: 1991

WEIGHT COUNT

TOMOPTERIS CARPENTERI	1.24	4
SAGITTA GAZELLAE	0.14	3
SAGITTA SP	0.04	1
CHAETOGNATH INDET	0.04	2
CALANUS PROPINQUUS		9
RHINCALANUS GIGAS		6
COPEPOD INDET		1
AMPHIPOD HYPERIID	26.17	578
CLIONE LIMACINA	0.03	1
SPONGIOBRANCHAEA AUSTRALIS	0.07	1
EUPHAUSIIDS E.SUPERBA	1114.801384	
EUPHAUSIIDS T.MACRURA	0.03	1

DATE: 20/ 1/81 HAUL: 005 NET: BR1000A
 GMT: 0636 TOTAL WEIGHT: 46.36 TOTAL COUNT: 1713

WEIGHT COUNT

SAGITTA GAZELLAE	0.40	4
SAGITTA SP	0.28	10
EUKROHNIA SP	0.06	14
CHAETOGNATH INDET	0.03	3
CALANUS PROPINQUUS	0.52	48
CALANOIDES ACUTUS	0.22	20
RHINCALANUS GIGAS	2.76	260
EUCHAETA ANTARCTICA		2
PARATHEMISTO GAUDICHAUDI BISP	3.20	72
PRIMNO MACROPA	0.04	1
NOTOLEPIS COATSI LARVA	0.07	2
EUPHAUSIIDS E.SUPERBA	1.22	1
EUPHAUSIIDS T.MACRURA	37.361273	
EUPHAUSIIDS THYSANOESSA SP	0.08	3
RESIDUE	0.12	

DATE: 20/ 1/81 HAUL: 006 NET: BR1000A
 GMT: 1608 TOTAL WEIGHT: 2.34 TOTAL COUNT: 148

	WEIGHT	COUNT
TRAVISIOPSIS LEVINSENI	0.07	2
POLYCHAETE INDET	0.02	2
SAGITTA GAZELLAE	0.23	5
SAGITTA MARRI	0.01	1
SAGITTA SP		1
EUKROHNIA SP	0.14	18
CHAETOGNATH INDET	0.01	2
OSTRACOD		1
CALANUS PROPINQUUS	0.35	44
CALANOIDES ACUTUS		8
RHINCALANUS GIGAS	0.50	38
EUCHAETA ANTARCTICA		2
HALOPTILUS OCELLATUS		2
PRIMNO MACROPA	0.03	1
DECAPOD LARVA INDET		1
HETEROPOD INDET		1
CLIO PYRAMIDATA	0.25	5
EUPHAUSIIDS THYSANOESSA SP	0.32	14
RESIDUE	0.41	

DATE: 20/ 1/81 HAUL: 007 NET: CONICAL1000H
 GMT: 1618 TOTAL WEIGHT: 8.78 TOTAL COUNT: 798

	WEIGHT	COUNT
NEMERTINE		4
SAGITTA SP	0.11	1
OSTRACOD		1
COPEPOD	5.54	768
PARATHEMISTO GAUDICHAUDI BISP	0.07	3
PARATHEMISTO GAUDICHAUDI COMP	0.03	1
HYPERIELLA DILATATA	0.03	1
CLIONE LIMACINA	0.14	2
CLIO PYRAMIDATA	0.40	3
OIKOPLEURIDAE INDET	0.20	3
EUPHAUSIIDS E.SUPERBA	1.19	9
EUPHAUSIIDS E.FRIGIDA	0.05	1
EUPHAUSIIDS THYSANOESSA SP	0.02	1
RESIDUE	1.00	

DATE: 20/ 1/81 HAUL: 008 NET: CONICAL1000V
 GMT: 1750 TOTAL WEIGHT: 102.70 TOTAL COUNT: 2133

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	3.65	1
ATOLLA WYVILLEI	28.87	2
SIPHONOPHORE NECTOPHORE	1.31	16
NEMERTINE		1
TOMOPTERIS CARPENTERI	0.20	9
TRAVISIOPSIS LEVINSENI	0.06	2
SAGITTA GAZELLAE	3.98	18
SAGITTA MARRI	0.26	15
SAGITTA SP	0.16	9
EUKROHNIA HAMATA	1.91	14
EUKROHNIA SP	0.34	39
CHAETOGNATH INDET	0.07	14
OSTRACOD	0.06	34
COPEPOD	9.451495	
PARATHEMISTO GAUDICHAUDI BISP	0.10	1
PARATHEMISTO GAUDICHAUDI COMP	0.17	2
PRIMNO MACROPA	0.10	1
HYPERIELLA DILATATA	0.10	1
CLIONE LIMACINA	0.04	1
SPONGIOBRANCHAEA AUSTRALIS	0.12	1
LIMACINA HELICINA	0.63	4
CLIO PYRAMIDATA	1.12	6
OIKOPLEURIDAE INDET	0.32	5
SALP INDET	0.55	1
PLEURAGRAMMA ANTARCTICUM LARVA	0.10	1
NOTOLEPIS COATSI LARVA	0.09	4
EUPHAUSIIDS E.SUPERBA	48.38	423
EUPHAUSIIDS E.FRIGIDA	0.10	4
EUPHAUSIIDS E.TRIACANTHA	0.12	1
EUPHAUSSIDS THYSANOEssa SP	0.24	7
EUPHAUSIIDS INDET	0.10	1

DATE: 20/ 1/81 HAUL: 009 NET: RMT1

GMT: 1846 TOTAL WEIGHT: 179.41 TOTAL COUNT: 3094

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	1.36	1
SIPHONOPHORE NECTOPHORE	1.18	4
SIPHONOPHORE BRACT	40.05	
NEMERTINE	1.31	5
TOMOPTERIS CARPENTERI	2.85	3
TOMOPTERIS SP	8.10	18
VANADIS ANTARCTICA	11.18	5
SAGITTA GAZELLAE	3.90	17
SAGITTA MARRI	0.03	1
SAGITTA SP	0.34	6
EUKROHNIA SP	0.30	14
CALANUS PROPINQUUS	3.73	390
CALANOIDES ACUTUS	0.82	79
RHINCALANUS GIGAS		2
EUCHIRELLA ROSTRATA		13
EUCHAETA ANTARCTICA		1
METRIDIA GERLACHEI	1.14	98
HALOPTILUS OCELLATUS		13
PARATHEMISTO GAUDICHAUDI BISP	0.10	2
PARATHEMISTO GAUDICHAUDI COMP	1.98	18
PRIMNO MACROPA	0.05	1
HYPERIELLA DILATATA	0.15	4
NEMATOCARCINUS SP LARVA	0.11	3
CLIONE LIMACINA	1.23	24
SPONGIOBRANCHAEA AUSTRALIS	0.47	5
CLIO PYRAMIDATA	2.35	28
GALITEUTHIS SP	0.09	4
SALPA THOMPSONI (AGG)	1.28	6
EUPHAUSIIDS E.SUPERBA	0.69	7
EUPHAUSIIDS T.MACRURA	78.061855	
EUPHAUSIIDS INDET	13.38	467
RESIDUE	4.46	

DATE: 21/ 1/81 HAUL: 010 NET: RMT1
GMT: 0447 TOTAL WEIGHT: 1196.43 TOTAL COUNT: 2553

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	3.35	1
SIPHONOPHORE NECTOPHORE	2.00	8
SIPHONOPHORE BRACT	14.78	
NEMERTINE	0.01	2
SAGITTA SP	0.14	2
EUKROHNIA SP	0.04	1
CALANUS PROPINQUUS	1.85	299
CALANOIDES ACUTUS	3.61	887
RHINCALANUS GIGAS		8
EUCHAETA ANTARCTICA		4
METRIDIA GERLACHEI		1
PARATHEMISTO GAUDICHAUDI COMP	0.08	1
PRIMNO MACROPA	0.08	1
CLIONE LIMACINA	0.50	9
HETEROPOD INDET	0.02	7
OIKOPLEURIDAE INDET		4
PLEURAGRAMMA ANTARCTICUM	0.50	1
PLEURAGRAMMA ANTARCTICUM LARVA	0.21	2
PAGETOPSIS MACROPTERUS	0.22	1
EUPHAUSIIDS E.SUPERBA	1166.601261	
EUPHAUSIIDS T.MACRURA	1.98	32
EUPHAUSIIDS THYSANOESSA SP	1.14	4
EUPHAUSIIDS INDET	0.32	17

DATE: 21/ 1/81 HAUL: 011 NET: CONICAL1000V

GMT: 0619 TOTAL WEIGHT: 29.76 TOTAL COUNT: 2662

WEIGHT COUNT

SIPHONOPHORE NECTOPHORE	0.29	42
SIPHONOPHORE BRACT	11.30	
NEMERTINE		6
TOMOPTERIS SP	0.01	2
TRAVISIOPSIS LEVINSENI	0.01	2
SAGITTA GAZELLAE	0.21	7
SAGITTA MARRI	0.17	13
EUKROHNIA SP	0.75	89
CHAETOGNATH INDET		3
OSTRACOD		1
COPEPOD	15.492435	
NEMATOCARCINUS SP LARVA		2
PASIPHAEA SP LARVA		1
LIMACINA HELICINA	0.05	3
OIKOPLEURIDAE INDET	0.24	16
IHLA RACOVITZAI (AGG)	0.38	14
EGG		3
EUPHAUSIIDS T.MACRURA	0.24	4
EUPHAUSIIDS THYSANOESSA SP	0.42	17
EUPHAUSIIDS INDET	0.20	2

DATE: 21/ 1/81 HAUL: 012 NET: BR1000A

GMT: 0656 TOT TOTAL WEIGHT: 13.85 TOT TOTAL COUNT: 706

TRICO TRIDEW	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	1.12	1
SIPHONOPHORE NECTOPHORE	0.98	48
NEMERTINE	0.30	1
TOMOPTERIS CARPENTERI	0.16	1
SAGITTA GAZELLAE	0.80	6
SAGITTA MARRI	0.06	6
EUKROHNIA SP	0.62	52
CALANUS PROPINQUUS	0.37	32
CALANOIDES ACUTUS	2.14	154
RHINCALANUS GIGAS	4.32	351
EUCHIRELLA ROSTRATA		3
EUCHAETA ANTARCTICA		16
METRIDIA GERLACHEI		4
HALOPTILUS OCCELLATUS		8
COPEPOD INDET		2
PARATHEMISTO GAUDICHAUDI BISP	0.15	1
PRIMNO MACROPA	0.35	2
HYPERIELLA DILATATA	0.12	1
NEMATOCARCINUS SP LARVA		1
IHLÉA RACOVITZAI (SOL)	0.91	1
EUPHAUSIIDS E.SUPERBA	1.06	1
EUPHAUSIIDS T.MACRURA	0.17	3
EUPHAUSIIDS THYSANOESSA SP	0.23	10
EUPHAUSIIDS INDET		1
10.0		
10.0		

DATE: 21/ 1/81 HAUL: 014 NET: CONICAL1000V

GMT: 1826 TOTAL WEIGHT: 18.08 TOTAL COUNT: 1163

WEIGHT COUNT

RADIOLARIAN			
DIPLOLUMARIS ANTARCTICA	1.19	2	4
SIPHONOPHORE NECTOPHORE	1.42	22	
SIPHONOPHORE BRACT	1.73		
NEMERTINE	0.04	10	
POLYCHAETE ALCIOPIDAE	0.01	1	
POLYCHAETE POLYNOIDAE	0.07	1	
SAGITTA GAZELLAE	1.19	10	
SAGITTA MARRI	0.03	6	
SAGITTA SP		1	
EUKROHNIA SP	0.19	26	
CHAETOGNATH INDET	0.03	2	
OSTRACOD	0.04	9	
COPEPOD	5.46	863	
HYPERIELLA DILATATA	0.07	3	
AMPHIPOD LARVA INDET	0.02	4	
CLIONE LIMACINA		1	
HETEROPOD INDET	0.07	2	
LIMACINA HELICINA	0.15	21	
IHLAEA RACOVITZAI (AGG)	5.31	158	
IHLAEA SP	0.26	2	
OIKOPLEURIDAE INDET		4	
EUPHAUSIIDS E.SUPERBA	0.39	2	
EUPHAUSIIDS T.MACRURA	0.29	6	
EUPHAUSIIDS THYSANOESSA SP	0.01	2	
EUPHAUSIIDS INDET	0.01	1	

DATE: 21/ 1/81 HAUL: 015 NET: RMT1
 GMT: 1908 TOTAL WEIGHT: 117.60 TOTAL COUNT: 664

		WEIGHT	COUNT
DIPLOLIMARIS ANTARCTICA		6.23	1
SIPHONOPHORE BRACT		40.17	
CTENOPHORE		0.76	1
NEMERTINE		0.05	5
TOMOPTERIS CARPENTERI		0.23	1
TOMOPTERIS SP		0.22	1
VANADIS ANTARCTICA		0.48	1
SAGITTA GAZELLAE		0.55	3
SAGITTA SP		0.04	1
EUKROHNIA SP		0.06	4
CALANUS PROPINQUUS		1.62	85
CALANOIDES ACUTUS		2.86	186
RHINCALANUS GIGAS			16
EUCHIRELLA ROSTRATA			1
EUCHAETA ANTARCTICA			10
METRIDIA GERLACHEI			9
HALOPTILUS OCELLATUS			1
PARATHEMISTO GAUDICHAUDI COMP		0.07	1
EUSIRUS SP		0.02	1
HYMENODORA GRACILIS LARVA		0.01	1
CLIONE LIMACINA		0.12	4
HETEROPOD INDET		0.86	22
LIMACINA HELICINA		0.51	90
CLIO PYRAMIDATA			2
SALP INDET		18.30	129
PLEURAGRAMMA ANTARCTICUM		41.71	55
PAGETOPSIS MACROPTERUS LARVA		0.01	1
EUPHAUSIIDS E.SUPERBA		1.21	9
EUPHAUSIIDS T.MACRURA		0.30	5
EUPHAUSIIDS THYSANOESSA SP		0.07	2
EUPHAUSIIDS INDET		1.14	16

DATE: 21/ 1/81 HAUL: 016 NET: BR1000A
GMT: 2002 TOTAL WEIGHT: 16.57 TOTAL COUNT: 367

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.07	1
SIPHONOPHORE BRACT	0.14	
CTENOPHORE	0.43	1
SAGITTA GAZELLAE	0.01	1
CALANUS PROPINQUUS	0.43	65
CALANOIDES ACUTUS	1.04	128
RHINCALANUS GIGAS	0.11	24
EUCHIRELLA ROSTRATA		1
EUCHAETA ANTARCTICA		5
METRIDIA GERLACHEI		12
HALOPTILUS OCELLATUS		1
HYPERIA ANTARCTICA	0.08	1
NEMATOCARCINUS SP LARVA		2
HIPPOLYTIDAE SP 1 LARVA		5
HIPPOLYTIDAE SP 2 LARVA		1
OIKOPLEURIDAE INDET		1
EUPHAUSIIDS E.SUPERBA	13.91	114
EUPHAUSIIDS E.FRIGIDA	0.03	1
EUPHAUSIIDS THYSANOESSA SP	0.04	1
EUPHAUSIIDS INDET	0.28	2

DATE: 22/ 1/81 HAUL: 017 NET: RMT1
GMT: 0443 TOTAL WEIGHT: 2748.06 TOTAL COUNT: 9999

	WEIGHT	COUNT
PRIMNO MACROPA	0.06	1
017A EUPHAUSIIDS E.SUPERBA	431.982607	
EUPHAUSIIDS T.MACRURA	0.51	6
EUPHAUSIIDS THYSANOESSA SP	0.51	13
TOTAL WEIGHT E.SUPERBA IN SAMPLE	2746.98GR	

DATE: 22/ 1/81 HAUL: 018 NET: CONICAL1000V
GMT: 0621 TOTAL WEIGHT: 20.98 TOTAL COUNT: 2543

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.67	25
CTENOPHORE	1.08	4
NEMERTINE		1
TOMOPTERIS SEPTENTRIONALIS	0.10	1
SAGITTA GAZELLAE	0.78	13
SAGITTA MARRI	0.08	8
EUKROHNIA SP	1.30	124
OSTRACOD		6
COPEPOD	13.072305	
NEMATOCARCINUS SP LARVA	0.04	9
SPONGIOBRANCHAEA AUSTRALIS	0.03	1
LIMACINA HELICINA	0.25	20
CRANCHIIDAE INDET	0.04	1
IHLÉA RACOVITZAI (SOL)	0.71	1
IHLÉA SP	0.33	1
OIKOPLEURIDAE INDET		4
EUPHAUSIIDS E.SUPERBA	1.58	3
EUPHAUSIIDS E.CRYSTALLOROPHIAS	0.17	1
EUPHAUSIIDS T.MACRURA	0.58	9
EUPHAUSIIDS THYSANOESSA SP	0.17	6

DATE: 22/ 1/81 HAUL: 019 NET: BR1000A
GMT: 0634 TOTAL WEIGHT: 185.25 TOTAL COUNT: 998

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	1.57	1
SIPHONOPHORE NECTOPHORE	0.89	12
SIPHONOPHORE BRACT	7.06	
SAGITTA MARRI	0.01	1
SAGITTA SP	0.02	1
EUKROHNIA SP	0.08	6
CHAETOGNATH INDET	0.01	1
CALANUS PROPINQUUS	0.76	78
CALANOIDES ACUTUS	3.22	360
RHINCALANUS GIGAS	0.83	140
EUCHIRELLA ROSTRATA		1
EUCHAETA ANTARCTICA		26
METRIDIA GERLACHEI		4
HALOPTILUS OCELLATUS		2
PARATHEMISTO GAUDICHAUDI BISP	0.09	1
NEMATOCARCINUS SP LARVA		2
CLIO PYRAMIDATA		1
EUPHAUSIIDS E.SUPERBA	169.76	330
EUPHAUSIIDS T.MACRURA	0.61	14
EUPHAUSIIDS THYSANOESSA SP	0.34	17

DATE: 22/1/81 HAUL: 020 NET: BR1000A
GMT: 1716 TOTAL WEIGHT: 22.41 TOTAL COUNT: 682

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE		1
SIPHONOPHORE BRACT	3.91	
NEMERTINE	0.02	2
RHYNCHONERELLA SP		1
CALANUS PROPINQUUS	2.03	187
CALANOIDES ACUTUS		18
RHINCALANUS GIGAS	1.79	128
EUCHIRELLA ROSTRATA		10
EUCHAETA ANTARCTICA		14
METRIDIA GERLACHEI		12
PARATHEMISTO GAUDICHAUDI COMP	2.10	24
PRIMNO MACROPA	0.17	4
HYPERIELLA DILATATA	0.08	1
EUSIRIDAE INDET	0.05	1
CLIONE LIMACINA	0.81	1
CLIO PYRAMIDATA	0.11	2
SALPA THOMPSONI (AGG)	0.10	1
IHLÉA SP	0.09	1
OIKOPLEURIDAR INDET		2
EUPHAUSIIDS T.MACRURA	11.15	271
EUPHAUSIIDS T.MACRURA F4		1

DATE: 22/ 1/81 HAUL: 021 NET: CONICAL 1000H

GMT: 1730 TOTAL WEIGHT: 65.95 TOTAL COUNT: 929

	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	3.02	6
TOMOPTERIS SP	0.59	3
SAGITTA GAZELLAE	0.29	3
SAGITTA SP	0.17	2
OSTRACOD		1
COPEPOD	0.12	72
HYPERIELLA DILATATA	0.07	4
SPONGIOBRANCHAEA AUSTRALIS	0.89	16
CLIO PYRAMIDATA	57.45	498
OIKOPLEURIDAE INDET	0.80	205
EUPHAUSIIDS E.SUPERBA	2.14	20
EUPHAUSIIDS THYSANOESSA SP	0.02	1
EUPHAUSIIDS T.MACRURA	0.10	1
EUPHAUSIIDS T.MACRURA F2		7
EUPHAUSIIDS T.MACRURA F3	0.05	44
EUPHAUSIIDS T.MACRURA F4	0.05	34
EUPHAUSIIDS T.MACRURA F5		1
EUPHAUSIIDS T. MACRURA F?		7
EUPHAUSIIDS INDET	0.19	2
EUPHAUSIIDS INDET F?		2

DATE: 22/ 1/81 HAUL: 022 NET: CONICAL1000V

GMT: 2039 MDT TOTAL WEIGHT: 61.87 TOTAL COUNT: 918

TRUCK INDIAN		WEIGHT	COUNT
ATOLLA WYVILLEI		50.35	1
SIPHONOPHORE NECTOPHORE		0.45	34
NEMERTINE		0.11	20
TOMOPTERIS SEPTENTRIONALIS		0.05	3
RHYNCHONERELLA SP			1
SAGITTA GAZELLAE		1.17	11
SAGITTA MARRI		0.03	6
SAGITTA SP		0.22	3
EUKROHNIA SP		0.52	76
OSTRACOD		0.03	11
COPEPOD		5.24	675
PARATHEMISTO GAUDICHAUDI COMP		0.02	2
PARATHEMISTO ABYSSORUM		0.10	1
PRIMNO MACROPA		0.03	3
HYPERIELLA ANTARCTICA		0.01	1
MIMONECTES SP		0.01	1
GAMMARIDEA LARVA INDET		0.03	3
CLIONE LIMACINA		0.10	2
LIMACINA HELICINA		0.93	8
CLIO PYRAMIDATA		1.78	11
IHEA RACOVITZAI (AGG)		0.04	1
IHEA RACOVITZAI (SOL)		0.05	2
OIKOPLEURIDAE INDET			26
MYCTOPHID LARVA		0.14	3
NOTOLEPIS COATSI LARVA		0.03	1
CYCLOTHONE LARVA		0.01	2
EUPHAUSIIDS E.SUPERBA		0.07	1
EUPHAUSIIDS T.MACRURA		0.32	2
EUPHAUSIIDS THYSANOESSA SP		0.03	1
EUPHAUSIIDS THYSANOESSA SP F3			1
EUPHAUSIIDS THYSANOESSA SP F4			4

DATE: 22/ 1/81 HAUL: 023 NET: RMT1
GMT: 2109 ATOT TOTAL WEIGHT: 1034.31 TOTAL COUNT: 3634

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.31	1
SIPHONOPHORE BRACT	0.13	
TOMOPTERIS CARPENTERI	12.85	12
VANADIS ANTARCTICA	2.63	5
SAGITTA GAZELLAE	1.68	20
SAGITTA SP	0.44	6
CALANUS PROPINQUUS	0.89	79
CALANOIDES ACUTUS	0.18	10
RHINCALANUS GIGAS		3
EUCHIRELLA ROSTRATA		1
PLEUROMAMMA SP		1
PARATHEMISTO GAUDICHAUDI BISP	0.60	2
PARATHEMISTO GAUDICHAUDI COMP	0.60	2
HYPERIELLA DILIATATA	0.22	1
HYPERIA MACROCEPHALA	0.77	3
EUSIRUS SP	0.30	1
NEMATOCARCINUS SP LARVA	0.42	1
CLIONE LIMACINA	0.42	6
SPONGIOBRANCHAEA AUSTRALIS	0.58	5
CLIO PYRAMIDATA	20.55	149
CRANCHIIDAE INDET	0.07	1
MYCTOPHID LARVA	0.71	9
EUPHAUSIIDS E.SUPERBA	983.623313	
EUPHAUSIIDS T.MACRURA	0.39	3
RESIDUE	5.95	

DATE: 23/ 1/81 HAUL: 024 NET: BR1000A
 GMT: 0442 H A U L TOTAL WEIGHT: 39.82 TOTAL COUNT: 1489

		WEIGHT	COUNT
	CALYCOPSIS BORCHGREVINKI	2.52	1
	SIPHONOPHORE NECTOPHORE	1.22	4
	SIPHONOPHORE BRACT	0.49	
	RHYNCHONERELLA SP		2
	SAGITTA GAZELLAE	0.04	1
	SAGITTA SP	0.14	3
	EUKROHNIA SP	0.16	20
	CALANUS PROPINQUUS	1.63	186
	CALANOIDES ACUTUS	2.55	281
	RHINCALANUS GIGAS	7.43	812
	EUCHIRELLA ROSTRATA		3
	EUCHAETA ANTARCTICA	0.11	35
	HALOPTILUS OCELLATUS		1
	PARATHEMISTO GAUDICHAUDI COMP	0.41	4
	PRIMNO MACROPA	0.10	1
	HYPERIA ANTARCTICA	0.10	1
	NEMATOCARCINUS SP LARVA	0.10	16
	DECAPOD LARVA INDET		1
	CLIONE LIMACINA	0.04	1
	CLIO PYRAMIDATA	0.64	17
	OIKOPLEURIDAE INDET		3
	NOTOLEPIS COATSI LARVA	0.10	1
	EUPHAUSIIDS E.SUPERBA	19.84	16
	EUPHAUSIIDS T.MACRURA	0.89	18
	EUPHAUSIIDS THYSANOESSA SP	0.98	48
	EUPHAUSIIDS THYSANOESSA SP F3		1
	EUPHAUSIIDS INDET	0.33	12

DATE: 23/ 1/81 HAUL: 025 NET: RMT1 1801.22GR
GMT: 0530 XCT TOTAL WEIGHT: 1850.77 TOTAL COUNT: 4176

		WEIGHT	COUNT
	CALYCOPSIS BORCHGREVINKI	5.55	2
	SIPHONOPHORE NECTOPHORE	0.40	1
	SIPHONOPHORE BRACT	14.38	
	TOMOPTERIS CARPENTERI	16.53	15
	TOMOPTERIS SP	0.32	2
	VANADIS ANTARCTICA	0.44	1
	SAGITTA GAZELLAE	0.71	2
	CALANUS PROPINQUUS	2.61	306
	CALANOIDES ACUTUS		17
	RHINCALANUS GIGAS		4
	HALOPTILUS OCELLATUS		1
	PARATHEMISTO GAUDICHAUDI COMP	1.80	9
	PRIMNO MACROPA	0.33	3
	NEMATOCARCINUS SP LARVA		1
	SPONGIOBRANCHAEA AUSTRALIS	0.39	3
	LIMACINA HELICINA	0.42	15
	ALLUROTEUTHIS ANTARCTICUS	0.77	2
	PLEURAGRAMMA ANTARCTICUM LARVA	0.23	1
025A	EUPHAUSIIDS E.SUPERBA	847.761774	
	EUPHAUSIIDS T.MACRURA	1.86	22
	RESIDUE	2.81	

TOTAL WEIGHT E.SUPERBA IN SAMPLE 1801.22GR

DATE: 23/ 1/81 HAUL: 026 NET: BR1000A

GMT: 1730 LAT/LONG: TOTAL WEIGHT: 18.41 TOTAL COUNT: 946

	WEIGHT COUNT
CALYCOPSIS BORCHGREVINKI	3.46 2
SIPHONOPHORE NECTOPHORE	1.13 8
SIPHONOPHORE BRACT	1.20
TOMOPTERIS SP	0.02 3
PELAGOBIA LONGICIRRATA	1
SAGITTA GAZELLAE	0.63 9
SAGITTA MARRI	0.03 3
EUKROHNIA SP	0.28 28
CHAETOGNATH INDET	0.03 5
OSTRACOD	5
CALANUS PROPINQUUS	1.03 143
CALANOIDES ACUTUS	2.44 200
RHINCALANUS GIGAS	3.96 344
EUCHIRELLA ROSTRATA	3
EUCHAETA ANTARCTICA	0.44 71
METRIDIA GERLACHEI	15
HALOPTILUS OCELLATUS	16
PARATHEMISTO GAUDICHAUDI BISP	0.04 1
PARATHEMISTO GAUDICHAUDI COMP	0.25 4
PRIMNO MACROPA	0.65 8
HYPERIELLA DILATATA	0.35 6
NEMATOCARCINUS SP LARVA	2
CLIONE LIMACINA	0.18 2
LIMACINA HELICINA	0.10 4
CLIO PYRAMIDATA	0.84 22
SALPA THOMPSONI (AGG)	0.23 2
IHLÉA SP	1
FISH LARVA INDET	0.02 1
EUPHAUSIIDS T. MACRURA	0.51 3
EUPHAUSIIDS THYSANEOSSA SP	0.49 24
EUPHAUSIIDS INDET	0.12 10

DATE: 23/ 1/81 HAUL: 027 NET: BR1000A

GMT: 1914 TOTAL WEIGHT: 49.72 TOTAL COUNT: 1189

	WEIGHT	COUNT
SIPHONOPHORE BRACT	33.11	
TOMOPTERIS SP		1
VANADIS ANTARCTICA	0.09	1
SAGITTA GAZELLAE	0.75	2
EUKROHNIA SP	0.06	5
CHAETOGNATH INDET	0.01	2
OSTRACOD		4
CALANUS PROPINQUUS	4.72	537
CALANOIDES ACUTUS	1.84	207
RHINCALANUS GIGAS	1.72	144
EUCHIRELLA ROSTRATA		3
EUCHAETA ANTARCTICA	0.44	63
METRIDIA GERLACHEI		24
HALOPTILUS OCCELLATUS		3
PARATHEMISTO GAUDICHAUDI BISP	0.30	4
PARATHEMISTO GAUDICHAUDI COMP	0.30	4
PRIMNO MACROPA	0.84	12
HYPERIELLA DILATATA	0.40	5
DECAPOD LARVA INDET	0.36	11
CLIONE LIMACINA	0.10	2
GYMNOSONOMATA LARVA INDET		1
LIMACINA HELICINA		2
CLIO PYRAMIDATA	0.20	5
IHLÉA RACOVITZAI (SOL)	0.25	1
FISH LARVA INDET	0.02	1
EUPHAUSIIDS T. MACRURA	1.17	28
EUPHAUSIIDS THYSANESSA SP	2.79	111
EUPHAUSIIDS THYSANESSA SP F1		3
EUPHAUSIIDS INDET	0.25	3

DATE: 24/ 1/81 HAUL: 028 NET: BR1000A
GMT: 0343 TOTAL WEIGHT: 134.52 TOTAL COUNT: 1152

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	0.85	1
SAGITTA GAZELLAE	0.59	3
SAGITTA SP	0.02	1
EUKROHNIA SP	0.01	1
CHAETOGNATH INDET	0.02	2
OSTRACOD	0.01	1
CALANUS PROPINQUUS	5.46	593
CALANOIDES ACUTUS	0.97	108
RHINCALANUS GIGAS	1.22	95
PSEUDOCHIRELLA SP		1
EUCHAETA ANTARCTICA		28
METRIDIA GERLACHEI		1
HALOPTILUS OCELLATUS		5
PRIMNO MACROPA	0.09	3
HYPERIELLA DILATATA	0.07	2
EUSIRUS SP	0.06	1
NEMATOCARCINUS SP LARVA	0.08	5
DECAPOD LARVA INDET	0.02	1
CLIONE LIMACINA	0.05	1
SPONGIOBRANCHAEA AUSTRALIS	0.07	1
CLIO PYRAMIDATA	0.18	4
EUPHAUSIIDS E.SUPERBA	123.23	256
EUPHAUSIIDS THYSANOESSA SP	0.66	25
EUPHAUSIIDS INDET	0.70	13
RESIDUE	0.16	

DATE: 24/ 1/81 HAUL: 029 NET: RMT1

GMT: 0426 TOTAL WEIGHT: 154.24 TOTAL COUNT: 1584

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	2.29	1
SIPHONOPHORE NECTOPHORE	2.00	4
SIPHONOPHORE BRACT	61.33	
TOMOPTERIS CARPENTERI	17.29	16
TOMOPTERIS SP	0.05	3
SAGITTA GAZELLAE	1.18	4
SAGITTA MARRI	0.07	3
EUKROHNIA SP	0.16	8
CALANUS PROPINQUUS	11.79	1188
CALANOIDES ACUTUS	0.40	122
RHINCALANUS GIGAS		13
EUCHAETA ANTARCTICA		2
HALOPTILUS OCELLATUS		1
PRIMNO MACROPA	0.50	5
HYPERIA ANTARCTICA	0.05	1
HYPERIA MACROCEPHALA	0.15	2
EUSIRUS SP	0.07	1
CLIONE LIMACINA	0.51	4
HETEROPOD INDET	0.89	17
LIMACINA HELICINA	0.32	9
ALLUROTEUTHIS ANTARCTICUS	0.34	1
PLEURAGRAMMA ANTARCTICUM LARVA	0.28	1
EUPHAUSIIDS E.SUPERBA	49.40	60
EUPHAUSIIDS E.SUPERBA F6		1
EUPHAUSIIDS T.MACRURA	4.99	76
EUPHAUSIIDS THYSANOESSA SP	1.18	41

DATE: 24/ 1/81 HAUL: 030 NET: CONICAL 1000V

GMT: 0605 14ZOT TOTAL WEIGHT: 22.04 TOTAL COUNT: 3093

		WEIGHT	COUNT
I	SIPHONOPHORE NECTOPHORE	2.19	72
EI	TOMOPTERIS SP		2
I	TRAVISIONOPSIS LEVINSENI		1
VANADIS ANTARCTICA		1.38	1
RHYNCHONERELLA SP		0.02	23
PELAGOBIA LONGICIRRATA		0.02	2
SAGITTA GAZELLAE		1.41	26
SAGITTA MARRI		0.15	25
SAGITTA SP		0.11	1
EUKROHNIA HAMATA		2.25	335
EUKROHNIA SP		0.05	10
CHAETOGNATH INDET		0.04	4
OSTRACOD		0.04	18
COPEPOD		13.602517	
PARATHEMISTO GAUDICHAUDI BISP		0.05	10
HYPERIELLA DILATATA			1
EUSIRUS SP		0.07	1
NEMATOCARCINUS SP LARVA			3
LIMACINA HELICINA		0.10	2
CLIO PYRAMIDATA		0.17	3
CRANCHIIDAE INDET		0.04	1
OIKOPLEURIDAE INDET		0.07	23
EUPHAUSIIDS T.MACRURA		0.24	6
EUPHAUSIIDS THYSANOESSA SP		0.11	6

DATE: 24/ 1/81 HAUL: 031 NET: BR1000A

GMT: 1610 TOTAL WEIGHT: 14.56 TOTAL COUNT: 577

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	1.54	1
SIPHONOPHORE NECTOPHORE	2.52	13
SIPHONOPHORE BRACT	0.41	
TOMOPTERIS CARPENTERI	1.67	1
POLYCHAETE ALCIOPIDAE		1
EUKROHNIA SP	0.08	6
CHAETOGNATH INDET	0.06	3
CALANUS PROPINQUUS	2.07	239
CALANOIDES ACUTUS	0.94	202
RHINCALANUS GIGAS	0.22	58
EUCHIRELLA ROSTRATA		1
EUCHAETA ANTARCTICA		17
METRIDIA GERLACHEI		13
PARATHEMISTO GAUDICHAUDI COMP	0.06	1
PRIMNO MACROPA	0.20	2
NEMATOCARCINUS SP LARVA	0.03	2
DECAPOD LARVA INDET	0.01	1
SPONGIOBRANCHAEA AUSTRALIS	0.06	2
CLIO PYRAMIDATA	0.27	3
MYCTOPHID LARVA	0.07	1
FISH LARVA INDET	0.04	1
EUPHAUSIIDS E.SUPERBA	4.15	5
EUPHAUSIIDS T.MACRURA	0.16	3
EUPHAUSIIDS THYSANOESSA SP F1		1

DATE: 24/ 1/81 HAUL: 032 NET: CONICAL1000H

GMT: 1610 TOTAL WEIGHT: 4.43 TOTAL COUNT: 501

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE		1
NEMERTINE		1
SAGITTA GAZELLAE	0.10	1
OSTRACOD		1
COPEPOD	2.64	467
EUSIRUS SP	0.61	3
CLIONE LIMACINA	0.11	3
CLIO PYRAMIDATA	0.65	15
OIKOPLEURIDAE INDET		1
EUPHAUSIIDS INDET	0.32	8

DATE: 24/ 1/81 HAUL: 033 NET: CONICAL1000V
 GMT: 1812 TOTAL WEIGHT: 76.05 TOTAL COUNT: 1860

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	3.89	2
SIPHONOPHORE NECTOPHORE	0.77	30
TOMOPTERIS SEPTENTRIONALIS	0.19	4
POLYCHAETE TYPHLOSCOLEDIDAE		1
PELAGOBIA LONGICIRRATA		1
SAGITTA GAZELLAE	7.41	24
SAGITTA MARRI	0.51	35
SAGITTA SP	0.02	3
EUKROHNIA HAMATA	2.80	185
EUKROHNIA SP	0.02	5
OSTRACOD	0.32	110
COPEPOD	14.451383	
PARATHEMISTO GAUDICHAUDI BISP	0.03	2
PRIMNO MACROPA	0.35	18
MIMONECTES SP	0.05	6
NEMATOCARCINUS SP LARVA		1
CLIONE LIMACINA	0.05	2
SPONGIOBRANCHAEA AUSTRALIS	0.10	1
LIMACINA HELICINA	0.32	8
CLIO PYRAMIDATA	1.23	10
CRANCHIIDAE INDET	0.13	2
IHLÉA RACOVITZAI (SOL)	0.31	1
OIKOPLEURIDAE INDET		4
GYMNOSCOPELUS SP	23.54	1
FISH BATHYPELAGIC	0.52	1
CYCLOTHONE LARVA	0.02	2
FISH LARVA INDET	0.02	1
EUPHAUSIIDS T.MACRURA	0.82	9
EUPHAUSIIDS THYSANOESSA SP	0.19	8

DATE: 24/ 1/81 HAUL: 034 NET: RMT1

GMT: 1858 TOTAL WEIGHT: 404.53 TOTAL COUNT: 3284

	WEIGHT	COUNT
MEDUSA INDET	284.99	2
TOMOPTERIS CARPENTERI	1.19	1
TOMOPTERIS SP	0.30	7
VANADIS ANTARCTICA	2.58	3
RHYNCHONERELLA SP	0.03	8
SAGITTA GAZELLAE	13.20	37
SAGITTA SP	0.10	18
EUKROHNIA SP	0.21	8
CALANUS PROPINQUUS	7.43	152
CALANOIDES ACUTUS	0.83	166
RHINCALANUS GIGAS		3
EUCHAETA ANTARCTICA		19
METRIDIA GERLACHEI	1.69	215
HALOPTILUS OCELLATUS		1
PARATHEMISTO GAUDICHAUDI COMP	0.30	4
PRIMNO MACROPA	0.41	9
HYPERIELLA DILATATA	0.81	19
HYPERIELLA MACRONYX	0.04	1
HYPERIA MACROCEPHALA	0.03	1
EUSIRUS SP	0.20	3
NEMATOCARCINUS SP LARVA	2.18	10
CLIONE LIMACINA	0.69	6
CLIO PYRAMIDATA	2.95	32
CRANCHIIDAE INDET	0.44	3
SALPA THOMPSONI (AGG)	12.63	92
SALPA SP	0.33	5
IHLÉA SP	1.02	10
PLEURAGRAMMA ANTARCTICUM LARVA	0.12	6
MYCTOPHID LARVA	0.10	1
EUPHAUSIIDS THYSANOESSA SP	69.06	1393
EUPHAUSIIDS INDET	0.67	49

DATE: 25/ 1/81 HAUL: 035 NET: BR1000A
 GMT: 0241 TOTAL WEIGHT: 29.10 TOTAL COUNT: 163

	NET WT	COUNT	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.90	5		
EUKROHNIA SP	0.01	1		
CHAETOGNATH INDET	0.01	3		
CALANUS PROPINQUUS	0.22	31		
CALANOIDES ACUTUS	0.07	31		
RHINCALANUS GIGAS	0.23	28		
EUCHETA ANTARCTICA		4		
METRIDIA GERLACHEI		2		
PARATHEMISTO GAUDICHAUDI BISP	0.07	1		
PRIMNO MACROPA	0.12	2		
DECAPOD LARVA INDET		1		
CLIONE LIMACINA	0.10	1		
CLIO PYRAMIDATA	0.04	6		
SALPA THOMPSONI (AGG)	5.21	20		
SALPA SP	0.25	2		
PLEURAGRAMMA ANTARCTICUM	4.51	5		
CRYODRACO ANTARCTICUS	0.61	1		
FISH LARVA INDET	0.01	1		
EUPHAUSIIDS E.SUPERBA	16.65	18		
RESIDUE	0.09			

DATE: 25/ 1/81 HAUL: 036 NET: RMT1
 GMT: 0330 TOTAL WEIGHT: 1466.49 TOTAL COUNT: 1642

	NET WT	COUNT	WEIGHT	COUNT
NEMERTINE	0.70	1		
POLYCHAETE TOMOPTERIDAE	1.12	2		
SAGITTA GAZELLAE	0.39	3		
EUKROHNIA SP	0.02	1		
OSTRACOD	0.10	9		
PARATHEMISTO GAUDICHAUDI COMP	0.12	1		
HYPERIA CF SPINIGERA	0.04	1		
EUSIRUS SP	1.36	4		
CLIONE LIMACINA	0.55	5		
CLIO PYRAMIDATA	0.30	4		
PLEURAGRAMMA ANTARCTICUM	4.04	7		
EUPHAUSIIDS E.SUPERBA	458.08	491		
EUPHAUSIIDS T.MACRURA	0.36	6		
EUPHAUSIIDS THYSANOESSA SP	0.44	13		
EUPHAUSIIDS INDET	0.71	11		
RESIDUE	0.83			

TOTAL WEIGHT E.SUPERBA 1455.41GR

DATE: 25/ 1/81 HAUL: 037 NET: CONICAL1000V
GMT: 0506 TOTAL WEIGHT: 0.17 TOTAL COUNT: 24

	WEIGHT	COUNT
EUKROHNIA SP	0.02	6
CHAETOGNATH INDET	0.04	3
COPEPOD	0.01	5
PRIMNO MACROPA		1
HYPERIELLA DILATATA		1
NEMATOCARCINUS SP LARVA	0.01	4
HYMENODORA GRACILIS LARVA		1
LIMACINA HELICINA	0.06	1
EUPHAUSIIDS THYSANOESSA SP	0.03	1
EUPHAUSIIDS THYSANOESSA SP F1		1

DATE: 25/ 1/81 HAUL: 038 NET: BR1000A
GMT: 1512 TOTAL WEIGHT: 14.89 TOTAL COUNT: 194

	WEIGHT	COUNT
SAGITTA GAZELLAE	0.05	1
SAGITTA SP	0.09	2
EUKROHNIA SP	0.07	6
OSTRACOD		2
CALANUS PROPINQUUS	0.11	13
CALANOIDES ACUTUS	0.12	14
RHINCALANUS GIGAS	0.31	14
EUCHAETA ANTARCTICA		5
HIPPOLYTIDAE SP 2 LARVA		1
SALP INDET	0.15	2
NOTOTHENIID LARVA	0.09	1
PLEURAGRAMMA ANTARCTICUM LARVA	1.20	5
EUPHAUSIIDS E.CRYSTALLOROPHIAS	11.92	122
EUPHAUSIIDS T.MACRURA	0.05	1
EUPHAUSIIDS THYSANOESSA SP	0.02	1
EUPHAUSIIDS INDET	0.71	4

DATE: 25/ 1/81 HAUL: 039 NET: CONICAL1000H

GMT: 1514 LATOT TOTAL WEIGHT: 1.29 TOTAL COUNT: 141

		WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.81	2	
COPEPOD	0.44	132	
CLIONE LIMACINA		1	
LIMACINA HELICINA		1	
CLIO PYRAMIDATA	0.04	5	

DATE: 25/ 1/81 HAUL: 040 NET: CONICAL1000V

GMT: 1649 TOTAL WEIGHT: 16.88 TOTAL COUNT: 694

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	0.24	1
SIPHONOPHORE NECTOPHORE	0.40	2
PELAGOBIA LONGICIRRATA		3
SAGITTA GAZELLAE	0.14	6
EUKROHNIA SP	1.03	111
OSTRACOD		1
COPEPOD	3.76	392
PARATHEMISTO GAUDICHAUDI BISP	0.01	2
PRIMNO MACROPA		1
HIPERIELLA DILATATA		1
HIPPOLYTIDAE SP 1 LARVA	0.17	5
HIPPOLYTIDAE SP 2 LARVA	0.09	2
SPONGIOBRANCHAEA AUSTRALIS	0.11	1
CLIO PYRAMIDATA	0.01	2
SALPA THOMPSONI (AGG)	7.98	9
IHLA RACOVITZAI (SOL)	0.50	1
PLEURAGRAMMA ANTARCTICUM LARVA	0.19	4
PAGETOPSIS MACROPTERUS	0.15	2
EUPHAUSIIDS E.SUPERBA C3		4
EUPHAUSIIDS E.CRYSTALLOROPHIAS	1.91	34
EUPHAUSIIDS E.CRYSTALLOROPHIAS C2		2
EUPHAUSIIDS E.CRYSTALLOROPHIAS C3	0.08	96
EUPHAUSIIDS E.CRYSTALLOROPHIAS F1		8
EUPHAUSIIDS T.MACRURA	0.10	1
EUPHAUSIIDS THYSANOESSA SP	0.01	1
EUPHAUSIIDS THYSANOESSA SP F2		2

DATE: 25/ 1/81 HAUL: 041 NET: RMT1
GMT: 1713 TOTAL WEIGHT: 158.27 TOTAL COUNT: 1237

WEIGHT COUNT

SIPHONOPHORE NECTOPHORE	3.73	24
SAGITTA SP	0.04	1
CALANUS PROPINQUUS	0.09	21
CALANOIDES ACUTUS	0.36	183
RHINCALANUS GIGAS	0.11	11
PRIMNO MACROPA	0.20	1
GAMMARIDEA INDET	0.61	4
HIPPOLYTIDAE SP 1 LARVA	0.10	5
HIPPOLYTIDAE SP 2 LARVA	0.05	2
CLIONE LIMACINA		2
SPONGIOBRANCHAEA AUSTRALIS	0.28	2
CLIO PYRAMIDATA		3
IHLÉA SP	0.16	3
PLEURAGRAMMA ANTARCTICUM	8.74	54
PAGETOPSIS MACROPTERUS	5.72	60
EUPHAUSIIDS E.SUPERBA	0.12	1
EUPHAUSIIDS E.CRYSTALLOROPHIAS	134.70	800
EUPHAUSIIDS E.CRYSTALLOROPHIAS C3		1
EUPHAUSIIDS T.MACRURA	1.38	20
EUPHAUSIIDS THYSANOESSA SP	1.28	35
EUPHAUSIIDS THYSANOESSA SP F3		2
EUPHAUSIIDS INDET		2
RESIDUE	0.60	

DATE: 28/ 1/81 HAUL: 042 NET: RMT1
GMT: 1655 TOTAL WEIGHT: 12.98 TOTAL COUNT: 71

WEIGHT COUNT

CALYCOPSIS BORCHGREVINKI	4.03	1
EUSIRUS SP	0.19	1
GAMMARIDEA INDET		1
PLEURAGRAMMA ANTARCTICUM	3.70	13
PAGETOPSIS MACROPTERUS	1.84	24
EUPHAUSIIDS E.CRYSTALLOROPHIAS	1.90	15
EUPHAUSIIDS T.MACRURA	0.78	8
EUPHAUSIIDS THYSANOESSA SP	0.10	3
EUPHAUSIIDS INDET	0.44	5

DATE: 29/ 1/81 HAUL: 043 NET: BR1000A

GMT: 0245 GWTOT TOTAL WEIGHT: 3.10 TOT TOTAL COUNT: 74

ITEM	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.73	6
EUKROHNIA SP	0.08	6
CHAETOGNATH INDET		1
OSTRACOD	0.30	19
CALANUS PROPINQUUS		7
CALANOIDES ACUTUS		8
RHINCALANUS GIGAS	0.06	7
HYPERIELLA DILATATA	0.01	1
HIPPOLYTIIDAE SP 1 LARVA	0.03	3
IHLÉA RACOVITZAI	0.37	6
PLEURAGRAMMA ANTARCTICUM	1.14	2
PAGETOPSIS MACROPTERUS	0.16	1
EUPHAUSIIDS E.CRYSTALLOROPHIAS	0.12	5
EUPHAUSIIDS E.CRYSTALLOROPHIAS C2		1
EUPHAUSIIDS THYSANOESSA SP C2		1
RESIDUE	0.10	

DATE: 29/ 1/81 HAUL: 044 NET: RMT1
GMT: 0333 TOTAL WEIGHT: 78.40 TOTAL COUNT: 498

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	3.08	23
SIPHONOPHORE BRACT	0.01	
EUKROHNIA SP	0.03	5
CALANUS PROPINQUUS		4
CALANOIDES ACUTUS	0.22	29
RHINCALANUS GIGAS		2
HYPERIELLA DILATATA	0.30	1
HYPERIELLA MACRONYX	0.30	1
GAMMARIDEA INDET	0.50	5
HIPPOLYTIDAE SP 1 LARVA	2.43	85
HIPPOLYTIDAE SP 2 LARVA	0.06	2
CLIONE LIMACINA	0.98	2
HETEROPOD INDET	2.79	152
SALPA THOMPSONI (AGG)	0.62	1
NOTOTHENIID LARVA	0.69	4
PLEURAGRAMMA ANTARCTICUM	49.36	74
PLEURAGRAMMA ANTARCTICUM LARVA	0.97	58
PRIONODRACO EVANSI	0.09	1
PAGETOPSIS MACROPTERUS	15.43	42
CRYODRACO ANTARCTICUS	0.29	1
EUPHAUSIIDS THYSANOESSA SP	0.01	1
EUPHAUSIIDS INDET	0.24	5

DATE: 29/ 1/81 HAUL: 045 NET: CONICAL 1000V

GMT: 0450 TOTAL WEIGHT: 3.81 TOTAL COUNT: 502

		WEIGHT	COUNT
KOELLIKERINA MAAJI		0.05	1
SIPHONOPHORE NECTOPHORE		0.03	4
SIPHONOPHORE BRACT		0.06	
SAGITTA GAZELLAE		0.08	3
EUKROHNIA SP		0.42	47
COPEPOD		1.47	379
PARATHEMISTO GAUDICHAUDI BISP			2
HIPPOLYTIDAE SP 1 LARVA		0.05	5
HIPPOLYTIDAE SP 2 LARVA		0.02	2
DECAPOD LARVA INDET		0.01	1
OIKOPLEURIDAE INDET			1
PLEURAGRAMMA ANTARCTICUM LARVA		0.20	11
EUPHAUSIIDS E.CRYSTALLOROPHIAS		1.33	40
EUPHAUSIIDS E.CRYSTALLOROPHIAS	C3		4
EUPHAUSIIDS E.CRYSTALLOROPHIAS	F1		1
EUPHAUSIIDS THYSANOESSA SP		0.06	1

DATE: 29/ 1/81 HAUL: 046 NET: BR1000A

GMT: 1525 TOTAL WEIGHT: 48.00 TOTAL COUNT: 297

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	3.16	2
SIPHONOPHORE NECTOPHORE	2.06	7
CHAETOGNATH INDET	0.05	3
CALANUS PROPINQUUS	1.64	184
CALANOIDES ACUTUS		6
RHINCALANUS GIGAS		7
EUCHIRELLA ROSTRATA		1
EUCHAETA ANTARCTICA		3
METRIDIA GERLACHEI		1
PRIMNO MACROPA	0.65	10
HYPERIELLA DILATATA	0.11	2
HYPERIA MACROCEPHALA	0.10	1
NEMATOCARCINUS SP LARVA	0.03	4
HIPPOLYTIDAE SP 1 LARVA		1
CLIO PYRAMIDATA	0.05	4
PLEURAGRAMMA ANTARCTICUM LARVA	0.22	2
FISH LARVA INDET	0.33	3
EUPHAUSIIDS E.SUPERBA	39.04	42
EUPHAUSIIDS E.CRYSTALLOROPHIAS	0.15	3
EUPHAUSIIDS T.MACRURA	0.19	3
EUPHAUSIIDS THYSANOESSA SP	0.04	3
EUPHAUSIIDS INDET	0.18	5

DATE: 29/ 1/81 HAUL: 047 NET: CONICAL1000H

GMT: 1527 TOTAL WEIGHT: 3.94 TOTAL COUNT: 343

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.03	1
SAGITTA GAZELLAE	0.02	1
SAGITTA SP	0.02	1
EUKROHNIA SP	0.11	16
COPEPOD	0.74	244
PARATHEMISTO GAUDICHAUDI BISP	0.03	2
PRIMNO MACROPA	0.04	4
DECAPOD LARVA INDET	0.01	1
CLIO PYRAMIDATA	0.09	3
PLEURAGRAMMA ANTARCTICUM LARVA	0.02	3
EUPHAUSIIDS E.SUPERBA	0.90	17
EUPHAUSIIDS E.CRYSTALLOROPHIAS	0.58	12
EUPHAUSIIDS INDET	1.33	36
EUPHAUSIIDS INDET C3		2

DATE: 29/ 1/81

HAUL: 048

NET: CONICAL1000V

GMT: 1650 TOTAL WEIGHT: 69.11 TOTAL COUNT: 3978

TRICO THICK		WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI		0.79	1
SIPHONOPHORE NECTOPHORE		0.76	23
SIPHONOPHORE BRACT		6.81	
NEMERTINE			5
TOMOPTERIS SP		0.22	13
RHYNCHONERELLA SP		0.02	1
SAGITTA GAZELLAE		5.35	48
SAGITTA MARRI		0.13	22
SAGITTA SP		0.11	7
EUKROHNIA HAMATA		1.25	193
EUKROHNIA SP		0.12	31
OSTRACOD		0.28	103
COPEPOD		18.963318	
PARATHEMISTO GAUDICHAUDI BISP		0.06	1
PRIMNO MACROPA		0.60	25
HYPERIELLA DILATATA		0.05	4
EUSIRUS SP		0.13	1
NEMATOCARCINUS SP LARVA		0.03	10
SPONGIOBRANCHAEA AUSTRALIS		0.28	8
LIMACINA HELICINA			3
CLIO PYRAMIDATA		7.30	74
CRANCHIIDAE INDET		0.14	2
OIKOPLEURIDAE INDET			3
PLEURAGRAMMA ANTARCTICUM LARVA		0.02	1
NOTOLEPIS COATSI LARVA		0.13	4
CYCLOTHONE SP LARVA		0.12	6
EUPHAUSIIDS E.SUPERBA		24.01	18
EUPHAUSIIDS T.MACRURA		0.23	1
EUPHAUSIIDS THYSANOESSA SP		1.00	46
EUPHAUSIIDS INDET		0.21	6

DATE: 29/ 1/81 HAUL: 049 NET: RMT1
GMT: 1726 TOTAL WEIGHT: 187.84 TOTAL COUNT: 2233

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	1.40	2
SIPHONOPHORE BRACT	115.25	
TOMOPTERIS CARPENTERI	0.72	1
VANADIS ANTARCTICA	2.93	5
SAGITTA GAZELLAE	3.26	14
SAGITTA SP	0.09	1
EUKROHNIA SP	0.09	9
CALANUS PROPINQUUS	18.33	1770
CALANOIDES ACUTUS	0.18	24
RHINCALANUS GIGAS		9
EUCHAETA ANTARCTICA		7
METRIDIA GERLACHEI	0.40	32
PARATHEMISTO ABYSSORUM	0.20	1
PRIMNO MACROPA	1.85	32
HYPERIELLA DILATATA	0.55	11
HYPERIA MACROCEPHALA	0.23	2
AMPHIPOD GAMMARID	2.76	12
NEMATOCARCINUS SP LARVA	0.49	16
HIPPOLYTIDAE SP 3 LARVA	0.03	1
CLIONE LIMACINA	0.10	4
SPONGIOBRANCHAEA AUSTRALIS	1.01	9
HETEROPOD INDET	0.90	15
CLIO PYRAMIDATA	6.74	70
SALPA THOMPSONI (AGG)	18.36	122
IHLA RACOVITZAI (SOL)	0.50	2
NOTOTHENIID LARVA	0.49	3
PLEURAGRAMMA ANTARCTICUM LARVA	0.67	4
EUPHAUSIIDS E.SUPERBA	8.21	18
EUPHAUSIIDS T.MACRURA	0.81	9
EUPHAUSIIDS THYSANOESSA SP	1.28	22
EUPHAUSIIDS INDET	0.01	6

DATE: 30/ 1/81 HAUL: 050 NET: BR1000A
GMT: 0351 TOTAL WEIGHT: 73.09 TOTAL COUNT: 428

		WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE		2.34	6
SAGITTA GAZELLAE		0.04	1
CHAETOGNATH INDET			1
CALANUS PROPINQUUS		2.14	255
CALANOIDES ACUTUS			14
RHINCALANUS GIGAS		0.36	26
EUCHAETA ANTARCTICA			2
METRIDIA GERLACHEI			1
PARATHEMISTO GAUDICHAUDI COMP		0.05	2
PRIMNO MACROPA		0.01	1
HYPERIELLA MACRONYX		0.01	1
VIBILIA STEBBINGI		1.08	29
CLIO PYRAMIDATA		1.56	14
SALPA THOMPSONI (AGG)		24.80	10
EUPHAUSIIDS E.SUPERBA		39.78	52
EUPHAUSIIDS T.MACRURA		0.55	9
EUPHAUSIIDS INDET		0.37	4

DATE: 30/ 1/81 HAUL: 051 NET: RMT1
GMT: 0440 TOTAL WEIGHT: 1974.17 TOTAL COUNT: 3311

	WEIGHT	COUNT
CTENOPHORE	7.50	1
TOMOPTERIS CARPENTERI	14.65	17
POLYCHAETE ALCIOPIDAE	0.13	1
POLYCHAETE POLYNOIDAE	0.11	2
SAGITTA GAZELLAE	1.12	7
SAGITTA SP	0.07	2
PARATHEMISTO GAUDICHAUDI COMP	0.48	6
PRIMNO MACROPA	0.36	4
CLIONE LIMACINA	0.97	8
SPONGIOBRANCHAEA AUSTRALIS	2.35	19
CLIO PYRAMIDATA	1.64	22
SALPA THOMPSONI (AGG)	23.76	38
SALPA SP	12.43	23
SALP INDET	0.48	1
NOTOTHENIID LARVA	1.84	7
PLEURAGRAMMA ANTARCTICUM	0.21	3
BATHYDRACONIDAE INDET	0.31	1
CRYODRACO ANTARCTICUS	0.63	1
051A EUPHAUSIIDS E.SUPERBA	1172.791926	
EUPHAUSIIDS E.FRIGIDA		2
EUPHAUSIIDS THYSANOESSA SP	0.66	16
EUPHAUSIIDS INDET	0.28	2
TOTAL WEIGHT E.SUPERBA 1904.19GR		

DATE: 30/ 1/81 HAUL: 052 NET: CONICAL1000V
 GMT: 0635 TOTAL WEIGHT: 19.82 TOTAL COUNT: 166

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	3.42	1
SIPHONOPHORE NECTOPHORE	2.01	17
SIPHONOPHORE BRACT	0.22	
NEMERTINE	0.01	4
TOMOPTERIS CARPENTERI	0.67	1
TRAVISIONSIS LEVINSENI	0.02	1
RHYCHONERELLA SP		1
POLYCHAETE ALCIOPIDAE	0.04	1
SAGITTA GAZELLAE	0.05	1
EUKROHNIA SP	0.02	4
OSTRACOD	0.05	1
COPEPOD	0.65	109
PARATHEMISTO GAUDICHAUDI COMP	0.03	1
PRIMNO MACROPA	0.02	1
HYPERIELLA DILATATA	0.02	1
CLIO PYRAMIDATA	0.40	6
SALPA THOMPSONI (AGG)	0.51	1
EUPHAUSIIDS E.SUPERBA	11.65	15

DATE: 30/ 1/81 HAUL: 053 NET: BR1000A
 GMT: 1625 TOTAL WEIGHT: 183.00 TOTAL COUNT: 620

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	2.59	21
TOMOPTERIS CARPENTERI	1.62	1
RHYNCHONERELLA SP		1
SAGITTA SP	0.14	6
EUKROHNIA SP	0.03	4
CALANUS PROPINQUUS	0.83	123
CALANOIDES ACUTUS		6
RHINCALANUS GIGAS	0.42	41
EUCHIRELLA ROSTRATA		8
EUCHAETA ANTARCTICA		2
PARATHEMISTO GAUDICHAUDI COMP	0.15	4
PRIMNO MACROPA	0.04	2
HYPERIELLA DILATATA	0.30	8
VIBILIA STEBBINGI	0.01	1
NEMATOCARCINUS SP LARVA		1
SPONGIOBRANCHAEA AUSTRALIS	0.13	3
CLIO PYRAMIDATA	2.14	30
FISH LARVA INDET	0.01	1
EUPHAUSIIDS E.SUPERBA	168.52	174
EUPHAUSIIDS T.MACRURA	0.17	1
EUPHAUSIIDS THYSANOESSA SP	4.42	179
EUPHAUSIIDS THYSANOESSA SP F3		1
EUPHAUSIIDS INDET	0.15	2
RESIDUE	1.33	

DATE: 30/ 1/81 HAUL: 055 NET: CONICAL1000V
GMT: 1800 TOTAL WEIGHT: 118.30 TOTAL COUNT: 4840

		WEIGHT	COUNT
PERIPHYLLA PERIPHYLLA		19.02	1
CALYCOPSIS BORCHGREVINKI		2.01	2
MEDUSA INDET		39.94	1
SIPHONOPHORE NECTOPHORE		2.47	57
TOMOPTERIS SP		0.16	2
POLYCHAETE TYPHLOSCOLEDIDAE			1
RHYNCHONERELLA SP			5
POLYCHAETE LEPADORHYNCHIDAE			1
SAGITTA GAZELLAE		2.36	57
SAGITTA MARRI		0.07	13
SAGITTA SP		0.41	7
EUKROHNIA HAMATA		7.04	364
EUKROHNIA SP		0.08	18
OSTRACOD		0.07	31
COPEPOD		32.194	124
PARATHEMISTO GAUDICHAUDI COMP		0.09	5
PARATHEMISTO SP LARVA		0.02	1
PRIMNO MACROPA		0.78	25
HYPERIELLA DILATATA		0.19	10
VIBILIA STEBBINGI		0.02	1
AMPHIPOD LARVA INDET		0.05	3
NEMATOCARCINUS SP LARVA		0.09	12
CLIONE LIMACINA		0.22	1
CLIO PYRAMIDATA		4.79	32
CRANCHIIDAE INDET		0.14	1
SALPA THOMPSONI (AGG)		2.14	4
IHEA RACOVITZAI (SOL)		0.44	1
IHEA SP		0.53	1
OIKOPLEURIDAE INDET		0.81	5
MYCTOPHID LARVA		0.16	9
NOTOLEPIS COATSI LARVA		0.15	8
EUPHAUSIIDS T.MACRURA		0.49	6
EUPHAUSIIDS THYSANOESSA SP		0.88	31

DATE: 30/ 1/81 HAUL: 056 NET: RMT1
 GMT: 1845 TOTAL WEIGHT: 8419.06 TOTAL COUNT: 5558

		WEIGHT	COUNT
ATOLLA WYVILLEI		3700.00	1
NEMERTINE		0.68	1
TOMOPTERIS SP		1.61	3
POLYCHAETE ALCIOPIDAE		0.29	1
SAGITTA GAZELLAE		1.38	8
SAGITTA SP		0.29	3
CALANUS PROPINQUUS			1
PARATHEMISTO GAUDICHAUDI COMP		2.99	22
HYPERIELLA MACRONYX		0.12	1
CLIONE LIMACINA		0.12	4
CLIO PYRAMIDATA		0.12	1
OIKOPLEURIDAE INDET			5
056A EUPHAUSIIDS E.SUPERBA		194.16	227
TOTAL WEIGHT E.SUPERBA	4710.46GR		

DATE: 31/ 1/81 HAUL: 057 NET: RMT1
 GMT: 0700 TOTAL WEIGHT: 340.33 TOTAL COUNT: 774

		WEIGHT	COUNT
TOMOPTERIS CARPENTERI		0.30	1
SAGITTA GAZELLAE		0.94	5
SAGITTA SP		0.65	9
CALANUS PROPINQUUS			7
PARATHEMISTO GAUDICHAUDI COMP		0.80	11
PRIMNO MACROPA		0.12	2
VIBILIA STEBBINGI		0.05	1
CLIONE LIMACINA		0.92	8
SPONGIOBRANCHAEA AUSTRALIS		1.92	8
LIMACINA HELICINA		0.23	11
SALPA THOMPSONI (AGG)		64.75	76
OIKOPLEURIDAE INDET			5
GYMNOGRACO ACUTICEPS		0.62	1
EUPHAUSIIDS E.SUPERBA		260.80	290
EUPHAUSIIDS THYSANOESSA SP		7.73	338
EUPHAUSIIDS INDET		0.15	1
RESIDUE		0.31	

DATE: 13/ 2/81 HAUL: 058 NET: BR1000A

GMT: 1724 TOTAL WEIGHT: 39.41 TOTAL COUNT: 363

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	1.05	1
SIPHONOPHORE NECTOPHORE	2.36	9
POLYCHAETE ALCIOPIDAE	0.26	1
SAGITTA GAZELLAE	0.60	3
CALANUS PROPINQUUS	1.14	106
CALANOIDES ACUTUS		8
RHINCALANUS GIGAS		8
EUCHIRELLA ROSTRATA		1
EUCHAETA ANTARCTICA	0.21	35
METRIDIA GERLACHEI		4
PARATHEMISTO GAUDICHAUDI BISP	0.19	2
PARATHEMISTO GAUDICHAUDI COMP	0.57	6
HYPERIELLA DILATATA	0.08	1
VIBILIA STEBBINGI	0.14	2
AMPHIPOD INDET	0.05	1
NEMATOCARCINUS SP LARVA	0.26	1
SPONGIOBRANCHAEA AUSTRALIS	0.35	4
CLIO PYRAMIDATA	1.10	12
SALPA THOMPSONI (AGG)	23.94	60
SALPA SP	0.72	9
IHLIA SP		1
ELECTRONA ANTARCTICA	0.38	1
NOTOLEPIS COATSI LARVA	0.06	1
EUPHAUSIIDS E.SUPERBA	1.09	1
EUPHAUSIIDS T.MACRURA	1.20	17
EUPHAUSIIDS THYSANOESSA SP	2.26	58
RESIDUE	1.40	

DATE: 14/ 2/81 HAUL: 059 NET: BR1000A

GMT: 0500 TOTAL WEIGHT: 1146.51 TOTAL COUNT: 2367

	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	1.77	2
TOMOPTERIS SP	0.17	1
SAGITTA GAZELLAE	0.14	2
SAGITTA SP	0.02	2
OSTRACOD		1
CALANUS PROPINQUUS	0.17	26
CALANOIDES ACUTUS		6
RHINCALANUS GIGAS	4.61	608
EUCHAETA ANTARCTICA		17
HALOPTILUS OCELLATUS		1
PARATHEMISTO GAUDICHAUDI BISP	19.89	346
PARATHEMISTO GAUDICHAUDI COMP	0.05	1
PRIMNO MACROPA	0.05	1
VIBILIA STEBBINGI	0.09	2
SPONGIOBRANCHAEA AUSTRALIS	0.18	3
CLIO PYRAMIDATA	1.12	8
SALPA SP	0.13	3
EUPHAUSIIDS E.SUPERBA	1104.90	1235
EUPHAUSIIDS T.MACRURA	6.47	63
EUPHAUSIIDS THYSANOESSA SP	0.33	11
EUPHAUSIIDS THYSANOESSA SP F2		1
EUPHAUSIIDS THYSANOESSA SP F3		2
EUPHAUSIIDS THYSANOESSA SP F5		1
EUPHAUSIIDS THYSANOESSA SP F6		2
EUPHAUSIIDS INDET	1.28	22
RESIDUE	5.14	

DATE: 14/ 2/81 HAUL: 060 NET: RMT1

GMT: 0558 GATOT TOTAL WEIGHT: 483.65 TOTAL COUNT: 9235

NAME	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.05	1
TOMOPTERIS CARPENTERI	0.61	1
SAGITTA SP	0.06	1
RHINCALANUS GIGAS	0.14	8
PARATHEMISTO GAUDICHAUDI BISP	18.03	306
PRIMNO MACROPA	0.23	7
CLIO PYRAMIDATA	0.07	1
EUPHAUSIIDS E.SUPERBA	173.88	142
EUPHAUSIIDS THYSANOESSA SP	278.988465	
EUPHAUSIIDS THYSANOESSA SP F1		1
EUPHAUSIIDS THYSANOESSA SP F2		9
EUPHAUSIIDS THYSANOESSA SP F3	0.02	33
EUPHAUSIIDS THYSANOESSA SP F4	0.04	66
EUPHAUSIIDS THYSANOESSA SP F5	0.08	77
EUPHAUSIIDS THYSANOESSA SP F6	0.06	41
EUPHAUSIIDS THYSANOESSA SP F?	0.04	37
EUPHAUSIIDS INDET	2.46	26
EUPHAUSIIDS INDET F?	0.01	13
RESIDUE	8.89	

DATE: 14/ 2/81 HAUL: 061 NET: CONICAL200V
GMT: 0803 TOTAL WEIGHT: 11.17 TOTAL COUNT: 312

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE		1
TOMOPTERIS SP		2
POLYCHAETE TYPHLOSCOЛЕCIDAЕ		1
RHYNCHONERELLA SP	0.01	5
POLYCHAETE IOSPILIDAE		1
SAGITTA GAZELLAE	1.49	17
SAGITTA MARRI	0.02	4
EUKROHNIA SP	0.59	184
CHAETOGNATH INDET	0.14	56
OSTRACOD		2
PRIMNO MACROPA	0.01	2
AMPHIPOD LARVA INDET		1
NOTOLEPIS COATSI LARVA	0.02	1
EUPHAUSIIDS THYSANOESSA SP	0.02	2
EUPHAUSIIDS THYSANOESSA SP F1		8
EUPHAUSIIDS THYSANOESSA SP F2		1
EUPHAUSIIDS THYSANOESSA SP F3		4
EUPHAUSIIDS THYSANOESSA SP F4		7
EUPHAUSIIDS THYSANOESSA SP F5		6
EUPHAUSIIDS THYSANOESSA SP F6		4
EUPHAUSIIDS THYSANOESSA SP F?		3
EUPHAUSIIDS INDET F?		1
RESIDUE	8.87	

DATE: 14/ 2/81 HAUL: 062 NET: BR1000A

GMT: 1707 TOTAL WEIGHT: 231.07 TOTAL COUNT: 5050

	WEIGHT	COUNT
NEMERTINE	0.01	1
TOMOPTERIS CARPENTERI	0.99	1
TOMOPTERIS SP	1.17	2
SAGITTA GAZELLAE	2.71	14
SAGITTA SP	1.42	17
EUKROHNIA HAMATA	0.01	2
CALANUS PROPINQUUS	13	
CALANOIDES ACUTUS	20	
RHINCALANUS GIGAS	1.95	228
EUCHIRELLA ROSTRATA	8	
EUCHAETA ANTARCTICA	9	
METRIDIA GERLACHEI	9	
PARATHEMISTO GAUDICHAUDI BISP	10.02	179
PARATHEMISTO GAUDICHAUDI COMP	0.33	4
HYPERIELLA DILATATA	0.12	2
CLIO PYRAMIDATA	0.23	3
CRANCHIIDAE INDET	0.14	1
IHLEA SP	8.91	8
ELECTRONA ANTARCTICA	5.78	5
EUPHAUSIIDS E.SUPERBA	68.20	65
EUPHAUSIIDS E.FRIGIDA	2.55	57
EUPHAUSIIDS E.TRIACANTHA	0.18	1
EUPHAUSIIDS T.MACRURA F1		1
EUPHAUSIIDS T.MACRURA F3		2
EUPHAUSIIDS T.MACRURA F4		6
EUPHAUSIIDS T.MACRURA F5	0.01	9
EUPHAUSIIDS T.MACRURA F6		5
EUPHAUSIIDS THYSANOESSA SP	90.353103	
EUPHAUSIIDS INDET	28.451275	
RESIDUE	7.54	

DATE: 14/ 2/81 HAUL: 063 NET: RMT1

GMT: 1804 TOTAL WEIGHT: 6924.91 TOTAL COUNT: 2656

	WEIGHT	COUNT
ATOLLA WYVILLEI	3900.00	1
TOMOPTERIS CARPENTERI	4.85	6
TOMOPTERIS SP	0.47	1
SAGITTA GAZELLAE	4.87	25
SAGITTA SP	2.47	16
CALANUS PROPINQUUS		2
RHINCALANUS GIGAS		2
PARATHEMISTO GAUDICHAUDI BISP	3.87	34
PARATHEMISTO GAUDICHAUDI COMP	4.13	38
HYPERIELLA DILATATA	0.01	1
VIBILIA STEBBINGI	0.03	2
SPONGIOBRANCHAEA AUSTRALIS	0.43	1
CLIO PYRAMIDATA	0.30	2
SALPA THOMPSONI (AGG)	9.32	32
SALP INDET	2.75	24
ELECTRONA ANTARCTICA	4.07	9
EUPHAUSIIDS E.SUPERBA	2978.792281	
EUPHAUSIIDS E.CRYSTALLOROPHIAS	0.02	1
EUPHAUSIIDS E.FRIGIDA	7.60	151
EUPHAUSIIDS THYSANOESSA SP	0.43	11
EUPHAUSIIDS INDET	0.47	16

DATE: 14/ 2/81 HAUL: 064 NET: CONICAL200V

GMT: 2007 HABOT TOTAL WEIGHT: 14.05 TOTAL COUNT: 1943

THROG THORW WEIGHT COUNT

TOMOPTERIS SP	SEOB	0.02	2
SAGITTA GAZELLAE	SHOTNENKA GIREA	0.36	9
SAGITTA MARRI	SHOTNENKA GIREA	2	
EUKROHNIA SP	SHOTNENKA GIREA	0.23	57
CHAETOGNATH INDET	SHOTNENKA GIREA	0.04	18
COPEPOD	SHOTNENKA GIREA	2.161783	
PARATHEMISTO GAUDICHAUDI BISP	SHOTNENKA GIREA	0.12	2
SPONGIOBRANCHAEA AUSTRALIS	SHOTNENKA GIREA	0.04	1
EUPHAUSIIDS E.SUPERBA	SHOTNENKA GIREA	3.31	2
EUPHAUSIIDS T.MACRURA	SHOTNENKA GIREA	0.86	23
EUPHAUSIIDS THYSANOESSA SP F1	SHOTNENKA GIREA		2
EUPHAUSIIDS THYSANOESSA SP F3	SHOTNENKA GIREA		2
EUPHAUSIIDS THYSANOESSA SP F4	SHOTNENKA GIREA	0.01	18
EUPHAUSIIDS THYSANOESSA SP F5	SHOTNENKA GIREA	0.02	12
EUPHAUSIIDS THYSANOESSA SP F6	SHOTNENKA GIREA	0.01	8
EUPHAUSIIDS THYSANOESSA SP F?	SHOTNENKA GIREA		2
RESIDUE	SHOTNENKA GIREA	6.87	

5.0	DIAPTERA ABORVARDO
5.8	ADONINAZET
6.0	(DDA) ENODRONT
6.2	INOPHAGA MUSCICAP
6.5	ABEQUUS BOTTER
7.0	ABDOMINANT BOLDWIN
7.5	ABDOMINANT BOTTER
8.0	ABDOMINANT BOTTER

DATE: 15/ 2/81 HAUL: 065 NET: RMT1

GMT: 1210 TOTAL WEIGHT: 186.53 TOTAL COUNT: 2012

	WEIGHT	COUNT
CTENOPHORE	0.76	3
TOMOPTERIS CARPENTERI	110.10	137
VANADIS ANTARCTICA	0.11	1
SAGITTA GAZELLAE	8.28	130
SAGITTA SP	5.13	110
EUKROHNIA HAMATA	3.06	206
EUKROHNIA SP	0.87	91
CALANUS PROPINQUUS	0.73	136
CALANOIDES ACUTUS	1.92	21021
RHINCALANUS GIGAS	0.31	51
EUCHAETA ANTARCTICA		2
METRIDIA GERLACHEI		1
HALOPTILUS OCELLATUS		12
PRIMNO MACROPA	0.54	16
HYPERIELLA DILATATA	0.08	2
HYMENODORA GRACILIS LARVA	0.01	1
CLIONE LIMACINA	0.15	2
SPONGIOBRANCHAEA AUSTRALIS	0.24	2
CLIO PYRAMIDATA	6.82	46
SALPA THOMPSONI (AGG)	0.32	2
PROTOMYCTOPHUM ANDERSSONI	13.64	7
EUPHAUSIIDS E.SUPERBA	32.49	30
EUPHAUSIIDS THYSANOESSA SP	0.01	1
EUPHAUSIIDS THYSANOESSA SP F4		1
EUPHAUSIIDS THYSANOESSA SP F5		1
RESIDUE	0.96	

DATE: 15/ 2/81 HAUL: 066 NET: RM11
 GMT: 1715 TOTAL WEIGHT: 7674.55 TOTAL COUNT: 5691

THUGO THOISE	WEIGHT	COUNT
ATOLLA WYVILLEI	3000.00	2
TOMOPTERIS CARPENTERI	1.36	3
TOMOPTERIS SP	5.08	10
VANADIS ANTARCTICA	0.34	1
SAGITTA GAZELLAE	1.71	13
SAGITTA SP	1.48	13
CALANUS PROPINQUUS	2.50	4
CALANOIDES ACUTUS	0.00	8
RHINCALANUS GIGAS	0.00	1
EUCHIRELLA ROSTRATA	0.00	2
EUCHAETA ANTARCTICA	0.00	1
METRIDIA GERLACHEI	0.00	2
PLEUROMAMMA SP	0.00	2
PARATHEMISTO GAUDICHAUDI COMP	1.85	13
NEMATOCARCINUS SP LARVA	0.64	2
CLICNE LIMACINA	0.18	2
IHEA SP	3.39	1
ELECTRONA ANTARCTICA	164.60	83
NOTOLEPIS COATSI	11.20	1
066A EUPHAUSIIDS E.SUPERBA	1783.47	202
EUPHAUSIIDS E.FRIGIDA	15.02	283
EUPHAUSIIDS THYSANOESSA SP	26.10	1059
EUPHAUSIIDS THYSANOESSA SP F5	0.00	1
EUPHAUSIIDS INDET	33.54	1223
RESIDUE	14.30	

TOTAL WEIGHT E.SUPERBA IN SAMPLE 4393.67GR

THUGO THOISE	WEIGHT	COUNT
ATOLLA WYVILLEI	3000.00	2
TOMOPTERIS CARPENTERI	1.36	3
TOMOPTERIS SP	5.08	10
VANADIS ANTARCTICA	0.34	1
SAGITTA GAZELLAE	1.71	13
SAGITTA SP	1.48	13
CALANUS PROPINQUUS	2.50	4
CALANOIDES ACUTUS	0.00	8
RHINCALANUS GIGAS	0.00	1
EUCHIRELLA ROSTRATA	0.00	2
EUCHAETA ANTARCTICA	0.00	1
METRIDIA GERLACHEI	0.00	2
PLEUROMAMMA SP	0.00	2
PARATHEMISTO GAUDICHAUDI COMP	1.85	13
NEMATOCARCINUS SP LARVA	0.64	2
CLICNE LIMACINA	0.18	2
IHEA SP	3.39	1
ELECTRONA ANTARCTICA	164.60	83
NOTOLEPIS COATSI	11.20	1
066A EUPHAUSIIDS E.SUPERBA	1783.47	202
EUPHAUSIIDS E.FRIGIDA	15.02	283
EUPHAUSIIDS THYSANOESSA SP	26.10	1059
EUPHAUSIIDS THYSANOESSA SP F5	0.00	1
EUPHAUSIIDS INDET	33.54	1223
RESIDUE	14.30	

DATE: 15/ 2/81 HAUL: 067 NET: BR1000A

GMT: 1819 TOTAL WEIGHT: 121.74 TOTAL COUNT: 1549

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	1.00	4
SIPHONOPHORE BRACT	2.08	
VANADIS ANTARCTICA	0.71	1
SAGITTA GAZELLAE	2.37	7
SAGITTA SP	0.06	2
CALANUS PROPINQUUS		4
CALANOIDES ACUTUS		1
RHINCALANUS GIGAS	0.38	27
EUCHIRELLA ROSTRATA		8
EUCHAETA ANTARCTICA		4
PARATHEMISTO GAUDICHAUDI BISP	0.56	11
PARATHEMISTO GAUDICHAUDI COMP	0.12	2
NEMATOCARCINUS SP LARVA	0.30	1
CLIONE LIMACINA	0.32	2
CLIO PYRAMIDATA	0.27	5
ELECTRONA ANTARCTICA	2.00	1
EUPHAUSIIDS E.SUPERBA	69.71	79
EUPHAUSIIDS E.FRIGIDA	6.49	145
EUPHAUSIIDS E.TRIACANTHA	0.09	1
EUPHAUSIIDS T.MACRURA	0.18	2
EUPHAUSIIDS T.MACRURA F4	0.01	1
EUPHAUSIIDS THYSANEOSSA SP	20.45	898
EUPHAUSIIDS INDET	11.48	341
EUPHAUSIIDS INDET F?	0.01	2
RESIDUE	3.15	

DATE: 16/ 2/81 HAUL: 068 NET: BR1000A

GMT: 0452 TOTAL WEIGHT: 1.10 TOTAL COUNT: 31

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	2	
SAGITTA SP	1	
RHINCALANUS GIGAS	5	
PLEUROMAMMA SP	1	
CLIO PYRAMIDATA	0.53	2
IHLÉA RACOVITZAI (SOL)	1	
EUPHAUSIIDS INDET	0.57	19

DATE: 16/ 2/81 HAUL: 069 NET: RMT1
 GMT: 0550 TOTAL WEIGHT: 41.62 TOTAL COUNT: 359

THROG THROB	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	5.14	6
TOMOPTERIS SP	10.63	19
VANADIS ANTARCTICA	2.20	1
SAGITTA GAZELLAE	0.69	10
SAGITTA SP	1.33	24
EUKROHNIA HAMATA		1
CALANUS PROPINQUUS		2
CALANOIDES ACUTUS		18
RHINCALANUS GIGAS	1.31	142
METRIDIA GERLACHEI		1
PLEUROMAMMA SP		1
PARATHEMISTO GAUDICHAUDI BISP	0.05	1
PARATHEMISTO GAUDICHAUDI COMP	0.44	4
PRIMNO MACROPA	0.03	1
HYPERIELLA DILATATA	0.03	1
NEMATOCARCINUS SP LARVA		1
CLIONE LIMACINA	1.28	11
SPONGIOBRANCHAEA AUSTRALIS	0.11	1
HETEROPOD INDET		4
CLIO PYRAMIDATA	12.89	91
ALLUROTEUTHIS ANTARCTICUS	0.16	1
SALPA THOMPSONI (AGG)	0.25	1
MYCTOPHID LARVA	0.42	10
EUPHAUSIIDS E.SUPERBA	0.14	1
EUPHAUSIIDS T.MACRURA	0.19	1
EUPHAUSIIDS THYSANOESSA SP F4		1
EUPHAUSIIDS INDET	0.04	2
EUPHAUSIIDS INDET F?		2
RESIDUE	4.29	

DATE: 16/ 2/81 HAUL: 070 NET: BR1000A
GMT: 1713 TOTAL WEIGHT: 20.16 TOTAL COUNT: 206

SPECIES	WEIGHT	COUNT
MEDUSA INDET	0.50	1
SIPHONOPHORE NECTOPHORE	0.05	6
RHYNCHONERELLA SP		1
SAGITTA SP	0.06	3
CALANUS PROPINQUUS		4
CALANOIDES ACUTUS		2
RHINCALANUS GIGAS	0.66	63
EUCHIRELLA ROSTRATA		3
EUCHAETA ANTARCTICA		3
PLEUROMAMMA SP		1
PARATHEMISTO GAUDICHAUDI BISP	0.01	1
PARATHEMISTO GAUDICHAUDI COMP	0.05	6
HYPERIELLA DILATATA	0.01	1
LIMACINA HELICINA	0.40	2
IHLÉA SP	0.04	1
ELECTRONA ANTARCTICA	2.99	2
NOTOLEPIS COATSI LARVA	0.17	2
EUPHAUSIIDS E.SUPERBA	11.31	28
EUPHAUSIIDS E.FRIGIDA	0.29	7
EUPHAUSIIDS E.TRIACANTHA	1.75	8
EUPHAUSIIDS T.MACRURA	0.48	6
EUPHAUSIIDS THYSANOESSA (SP)	0.34	15
EUPHAUSIIDS INDET	1.05	40

DATE: 17/ 2/81 HAUL: 071 NET: BR1000A

GMT: 0500 TOTAL WEIGHT: 170.23 TOTAL COUNT: 550

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	3.19	4
SIPHONOPHORE NECTOPHORE	0.34	17
RHYNCHONERELLA SP		2
SAGITTA GAZELLAE	0.01	1
SAGITTA MARRI		1
SAGITTA SP	0.02	2
EUKROHNIA HAMATA	0.01	2
EUKROHNIA SP	0.05	5
CALANUS PROPINQUUS	0.79	118
CALANOIDES ACUTUS	0.47	72
RHINCALANUS GIGAS	1.21	109
EUCHIRELLA ROSTRATA		3
EUCHAETA ANTARCTICA		18
METRIDIA GERLACHEI		1
HALOPTILUS OCELLATUS		1
PARATHEMISTO GAUDICHAUDI COMP	0.11	1
PRIMNO MACROPA	0.12	2
NEMATOCARCINUS SP LARVA		2
CLIO PYRAMIDATA	0.20	4
EUPHAUSIIDS E.SUPERBA	162.62	180
EUPHAUSIIDS E.TRIACANTHA	0.13	1
EUPHAUSIIDS THYSANOESSA SP	0.10	4
RESIDUE	0.86	

DATE: 17/ 2/81 HAUL: 072 NET: RMT2

GMT: 0550 TOTAL WEIGHT: 6620.80 TOTAL COUNT: 9999

	WEIGHT	COUNT
TOMOPTERIS SP	0.15	1
PARATHEMISTO GAUDICHAUDI BISP	0.08	1
SPONGIOBRANCHAEA AUSTRALIS	0.18	2
072A EUPHAUSIIDS E.SUPERBA	1320.364785	
EUPHAUSIIDS THYSANOESSA SP	0.03	2
TOTAL WEIGHT E.SUPERBA IN SAMPLE	6620.36GR	

DATE: 17/ 2/81 ADD HAUL: 15073 NET: BR1000A LBS 50.00
 GMT: 1713 TOT TOTAL WEIGHT: 38.65 TOT TOTAL COUNT: 374

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	0.05	1
SIPHONOPHORE NECTOPHORE	1.90	17
SIPHONOPHORE BRACT	0.05	
NEMERTINE		1
TOMOPTERIS CARPENTERI	1.32	1
TOMOPTERIS SP	0.07	1
SAGITTA GAZELLAE	0.30	3
SAGITTA SP	0.10	4
EUKROHNIA HAMATA	0.03	1
EUKROHNIA SP	0.07	12
OSTRACOD		2
CALANUS PROPINQUUS	0.43	46
CALANOIDES ACUTUS		14
RRHINCALANUS GIGAS	0.91	78
EUCHIRELLA ROSTRATA		8
EUCHAETA ANTARCTICA	0.59	50
METRIDIA GERLACHEI		8
HALOPTILUS OCELLATUS		11
PARATHEMISTO GAUDICHAUDI BISP	0.20	2
PARATHEMISTO GAUDICHAUDI COMP	0.70	7
PRIMNO MACROPA	0.37	5
HYPERIELLA DILATATA	0.10	2
NEMATOCARCINUS SP LARVA		1
SPONGIOBRANCHAEA AUSTRALIS	0.05	1
CLIO PYRAMIDATA	0.57	4
GALITEUTHIS GLACIALIS	0.70	1
CRANCHIIDAE INDET	0.29	1
NOTOTHENIID LARVA	0.04	1
ELECTRONA ANTARCTICA	3.27	1
EUPHAUSIIDS E.SUPERBA	21.95	22
EUPHAUSIIDS E.TRIACANTHA	0.30	1
EUPHAUSIIDS T.MACRURA	0.29	3
EUPHAUSIIDS THYSANOESSA SP	2.42	55
EUPHAUSIIDS INDET	0.66	9
RESIDUE	0.92	

DATE: 17/ 2/81 AOO HAUL: 074 NET: RMT2

GMT: 1807 DATOT TOTAL WEIGHT: 559.63 OT TOTAL COUNT: 2881

NAME	WEIGHT	COUNT
SIPHONOPHORE BRACT	17.15	
TOMOPTERIS CARPENTERI	0.46	1
TOMOPTERIS SP	0.94	5
VANADIS LONGISSIMA	0.02	1
SAGITTA GAZELLAE	2.89	13
SAGITTA SP	0.07	3
CALANUS PROPINQUUS	4.63	588
CALANOIDES ACUTUS	0.76	155
RHINCALANUS GIGAS		33
EUCHIRELLA ROSTRATA		1
EUCHAETA ANTARCTICA		30
METRIDIA GERLACHEI		22
PARATHEMISTO GAUDICHAUDI COMP	2.51	15
HYPERIELLA DILATATA	0.12	2
HYPERIELLA ANTARCTICA	0.06	1
NEMATOCARCINUS SP LARVA	0.28	1
CLIONE LIMACINA	0.09	1
SPONGIOBRANCHAEA AUSTRALIS	0.41	5
CLIO PYRAMIDATA	27.80	160
SALPA THOMPSONI (AGG)	1.97	3
IHLÉA RACOVITZAI (SOL)	0.74	1
IHLÉA SP	0.40	1
PROTOMYCTOPHUM ANDERSSONI	1.98	1
ELECTRONA ANTARCTICA	87.34	36
MYCTOPHID LARVA	0.04	1
NOTOLEPIS COATSII	59.42	2
EUPHAUSIIDS E.SUPERBA	342.381796	
EUPHAUSIIDS INDET	0.24	3
RESIDUE	6.92	

01
02 21.0
03 05.0
04 05.0
05 05.0
06 00.0
07 18.0
08 50.871
09 01.0
10 22.5

DATE: 18/ 2/81 HAUL: 075 NET: BR1000A TOTAL WEIGHT: 5.500 TOTAL COUNT: 26

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.05	1
SAGITTA GAZELLAE	0.03	1
CALANUS PROPINQUUS		6
RHINCALANUS GIGAS		5
EUCHAETA ANTARCTICA		1
PRIMNO MACROPA	0.01	1
HYPERIELLA DILATATA	0.01	1
CLIO PYRAMIDATA	0.27	5
EUPHAUSIIDS E.SUPERBA	5.13	5

DATE: 18/ 2/81 HAUL: 076 NET: RMT2

GMT: 0551 TOTAL WEIGHT: 194.96 TOTAL COUNT: 367

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	1.27	4
TOMOPTERIS CARPENTERI	10.99	12
TOMOPTERIS SP	0.20	2
VANADIS ANTARCTICA	1.27	4
SAGITTA GAZELLAE	0.03	2
SAGITTA SP	0.01	1
EUKROHNIA HAMATA	0.01	1
EUKROHNIA SP	0.01	1
CALANOIDES ACUTUS		18
RHINCALANUS GIGAS	0.12	52
HALOPTILUS OCELLATUS		1
PARATHEMISTO GAUDICHAUDI COMP	0.30	3
PARATHEMISTO GAUDICHAUDI LARVA		83
PRIMNO MACROPA	0.68	7
CLIO PYRAMIDATA	2.35	20
ALLUROTEUTHIS ANTARCTICUS	0.21	1
EUPHAUSIIDS E.SUPERBA	175.02	154
EUPHAUSIIDS INDET	0.14	1
RESIDUE	2.35	

DATE: 18/ 2/81 HAUL: 077 NET: RMT2
 GMT: 1055 TOTAL WEIGHT: 17.56 TOTAL COUNT: 366

	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	1.58	1
VANADIS ANTARCTICA	3.42	2
RHYNCHONERELLA SP	0.02	2
SAGITTA GAZELLAE	0.20	10
EUKROHNIA HAMATA		1
CALANUS PROPINQUUS		2
CALANOIDES ACUTUS	0.21	67
RHINCALANUS GIGAS	0.93	174
HALOPTILUS OCELLATUS		1
HYPERIELLA DILATATA	0.01	1
CLIONE LIMACINA	0.05	1
SPONGIOBRANCHAEA AUSTRALIS	0.40	5
CLIO PYRAMIDATA	5.93	38
CRANCHIIDAE INDET	0.16	2
MYCTOPHID LARVA	0.25	3
EUPHAUSIIDS T. MACRURA	3.96	56
RESIDUE	0.44	

DATE: 18/ 2/81 HAUL: 078 NET: RMT2
 GMT: 1127 TOTAL WEIGHT: 11.26 TOTAL COUNT: 572

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	0.32	3
TOMOPTERIS CARPENTERI	1.16	1
RHYNCHONERELLA SP		1
SAGITTA GAZELLAE	0.36	11
SAGITTA SP	0.07	4
EUKROHNIA HAMATA		2
CALANUS PROPINQUUS		6
CALANOIDES ACUTUS	0.83	206
RHINCALANUS GIGAS	1.42	261
METRIDIA GERLACHEI		2
HALOPTILUS OCELLATUS		2
SPONGIOBRANCHAEA AUSTRALIS	0.28	2
CLIO PYRAMIDATA	4.28	27
GALITEUTHIS GLACIALIS	0.32	1
MYCTOPHID LARVA	0.27	4
EUPHAUSIIDS T. MACRURA	0.89	11
EUPHAUSIIDS THYSANOESSA SP	1.06	28

DATE: 18/ 2/81 HAUL: 079 NET: RMT2
GMT: 1203 TOTAL WEIGHT: 9.85 TOTAL COUNT: 196

WEIGHT COUNT

CALYCOPSIS BORCHGREVINKI	TRIBRACHIS BIR	0.92	2
SIPHONOPHORE NECTOPHORE	ACIDOPHAGA	2.90	22
SAGITTA GAZELLAE	TC AB. BHAV	1.69	30
SAGITTA MARRI	TRIATOMA	0.01	3
SAGITTA SP	ATAMAN AI	0.04	7
EUKROHNIA HAMATA	SCOPULIFORI	0.02	2
CALANUS PROPINQUUS	CUTICOLA PRO		14
CALANOIDES ACUTUS	CALIO BUM	0.12	35
RHINCALANUS GIGAS	BUTYLISCHI BUD	0.27	39
HALOPTILUS OCELLATUS	ALIPTILUS AHI		1
PRIMNO MACROPA	ANTIPHEMI	0.03	1
NEMATOCARCINUS SP LARVA	NA	0.01	1
CLIONE LIMACINA	CLACININA	0.37	3
SPONGIOPRANCHAEA AUSTRALIS	SPONGIOPRANCHAEA BAPT	0.52	4
CLIO PYRAMIDATA	CLIO PYRAMIDATA	2.03	18
CRANCHIIDAE INDET	CRANCHIIDAE BISTRI	0.11	2
MYCTOPHID LARVA	MYCTOPHID BAPT	0.36	5
NOTOLEPIS COATSI LARVA	NOTOLEPIS COATSI	0.35	5
EUPHAUSIIDS THYSANOESSA SP	EUPHAUSIIDS THYSANOESSA	0.14	2

DATE: 18/ 2/81 HAUL: 080 NET: RMT2

GMT: 1713 > MRTOT TOTAL WEIGHT: 1684.06 TOT TOTAL COUNT: 1947

TYPE OF TROPHIC	WEIGHT	COUNT
RADIOLARIAN	0.06	33
CALYCOPSIS BORCHGREVINKI	21.45	9
HALICREAS MINIMUM	1.84	1
ATOLLA WYVILLEI	175.94	9
PERIPHILLYA PERIPHILLYA	724.51	4
MEDUSA PIECES	138.82	
TOMOPTERIS SP		1
TRAVISIOPSIS LEVINSENI	0.43	3
TRAVISIOPSIS CONICEPS	0.11	2
POLYCHAETE LOPADORHYNCHIDAE		1
SAGITTA GAZELLAE	43.65	293
SAGITTA MARRI	1.48	82
SAGITTA PLANCTONIS	0.25	1
SAGITTA SP	3.69	38
EUKROHNIA HAMATA	5.52	397
EUKROHNIA SP	1.32	100
OSTRACOD	1.17	29
COPEPOD	8.46	614
PARATHEMISTO GAUDICHAUDI BISP	1.24	4
PARATHEMISTO GAUDICHAUDI COMP	4.95	15
PRIMNO MACROPA	0.83	7
EURYTHENES OBESUS		1
EUSIRELLA SP		2
CYPHOCARIS RICHARDI	1.20	9
CYPHOCARIS FAUREI		1
ANDANIEXIS SP		2
GNATHOPHAUSIA SP	1.03	3
mysid INDET	1.18	5
PASIPHAEA SCOTIA	7.83	6
NEMATOCARCINUS SP LARVA	0.34	1
CLIONE LIMACINA	0.20	1
SPONGIOBRANCHAEA AUSTRALIS	0.23	1
CLIO PYRAMIDATA	2.06	7
GALITEUTHIS GLACIALIS	4.14	9
ALLUROTEUTHIS ANTARCTICUS	9.26	9
SALPA THOMPSONI (AGG)	3.73	14
ELECTRONA ANTARCTICA	33.93	12
MYCTOPHID LARVA	1.13	11
NOTOLEPIS COATSI	0.20	1
NOTOLEPIS COATSI LARVA	0.06	7
GONOSTOMATIDAE LARVA	0.04	5
FISH BATHYPELAGIC	7.10	17
EUPHAUSIIDS E.SUPERBA	13.86	11
EUPHAUSIIDS E.FRIGIDA	0.37	5
EUPHAUSIIDS E.TRIACANTHA	4.57	20
EUPHAUSIIDS T.MACRURA	4.70	37
EUPHAUSIIDS THYSANOESSA SP	4.41	91
EUPHAUSIIDS INDET	0.50	16

DATE: 19/ 2/81

HAUL: 081

NET: BR1000A

GMT: 0458

TOTAL WEIGHT:

51.40

TOTAL COUNT: 607

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.22	3
TOMOPTERIS SP	0.59	1
SAGITTA SP	0.08	2
EUKROHNIA SP	0.01	1
CALANOIDES ACUTUS	0.23	83
RHINCALANUS GIGAS	2.82	277
EUCHAETA ANTARCTICA		2
PARATHEMISTO GAUDICHAUDI BISP	3.31	53
PRIMNO MACROPA	0.26	5
CLIO PYRAMIDATA	0.55	7
MYCTOPHID LARVA	0.03	1
EUPHAUSIIDS E.SUPERBA	36.74	34
EUPHAUSIIDS T.MACRURA	1.30	11
EUPHAUSIIDS THYSANOESSA SP	4.18	117
EUPHAUSIIDS INDET	0.26	10
RESIDUE	0.82	

DATE: 19/ 2/81

HAUL: 082

NET: RMT2

GMT: 0549

TOTAL WEIGHT:

120.39

TOTAL COUNT: 650

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	0.27	1
TOMOPTERIS CARPENTERI	22.75	23
SAGITTA GAZELLAE	0.78	10
SAGITTA SP	0.45	6
EUKROHNIA SP	0.03	2
CALANUS PROPINQUUS		1
RHINCALANUS GIGAS	1.33	198
PLEUROMAMMA SP		1
PARATHEMISTO GAUDICHAUDI BISP	6.54	67
PRIMNO MACROPA	0.18	5
HYPERIELLA DILATATA	0.02	1
SPONGIOBRANCHAEA AUSTRALIS	0.31	3
CLIO PRAMIDATA	67.09	450
ALLUROTEUTHIS ANTARCTICUS	0.14	1
MYCTOPHID LARVA	0.63	12
EUPHAUSIIDS E.SUPERBA	8.29	7
EUPHAUSIIDS T.MACRURA	4.33	45
EUPHAUSIIDS THYSANOESSA SP	1.02	17
RESIDUE	6.23	

DATE: 19/ 2/81 HAUL: 083 NET: RMT2
 GMT: 0911 TOTAL WEIGHT: 119.83 TOTAL COUNT: 189
 WEIGHT COUNT
 TOMOPTERIS CARPENTERI 4.30 5
 SAGITTA SP 0.03 1
 RHINCALANUS GIGAS 0.04 7
 PARATHEMISTO GAUDICHAUDI BISP 4.51 53
 PRIMNO MACROPA 0.05 1
 CLIO PYRAMIDATA 0.78 11
 EUPHAUSIIDS E.SUPERBA 108.78 101
 EUPHAUSIIDS T.MACRURA 1.34 10

DATE: 19/ 2/81 HAUL: 084 NET: RMT2
 GMT: 0947 TOTAL WEIGHT: 1057.16 TOTAL COUNT: 1496

WEIGHT COUNT
 TOMOPTERIS CARPENTERI 2.76 2
 PARATHEMISTO GAUDICHAUDI BISP 31.61 510
 PROTOMYCTOPHUM ANDERSSONI 1.41 1
 EUPHAUSIIDS E.SUPERBA 1017.37 879
 EUPHAUSIIDS T.MACRURA 11.01 104

DATE: 19/ 2/81 HAUL: 085 NET: RMT2
 GMT: 1018 TOTAL WEIGHT: 8380.85 TOTAL COUNT: 6800

WEIGHT COUNT
 TOMOPTERIS CARPENTERI 0.74 1
 PARATHEMISTO GAUDICHAUDI BISP 2.03 41
 PRIMNO MACROPA 0.05 1
 CLIO PYRAMIDATA 1.63 1
 PROTOMYCTOPHUM ANDERSSONI 1275.281027
 085A EUPHAUSIIDS E.SUPERBA
 EUPHAUSIIDS T.MACRURA 1.12 10
 TOTAL WEIGHT E.SUPERBA IN SAMPLE 8375.28GR

DATE: 19/ 2/81 HAUL: 086 NET: RMT2

GMT: 1111 TOTAL WEIGHT: 1294.13 TOTAL COUNT: 1617

WEIGHT COUNT

TOMOPTERIS CARPENTERI	2.01	3
PARATHEMISTO GAUDICHAUDI BISP	5.16	77
PRIMNO MACROPA	0.13	2
PROTOMYCTOPHUM ANDERSSONI	1.57	1
EUPHAUSIIDS E.SUPERBA	1271.521382	
EUPHAUSIIDS T.MACRURA	13.74	152

DATE: 19/ 2/81 HAUL: 087 NET: BR1000A

GMT: 1710 TOTAL WEIGHT: 47.36 TOTAL COUNT: 736

WEIGHT COUNT

SAGITTA GAZELLAE	1.67	4
SAGITTA SP	0.56	9
EUKROHNIA HAMATA		1
CALANUS PROPINQUUS	0.21	38
CALANOIDES ACUTUS		18
RHINCALANUS GIGAS	1.74	156
EUCHIRELLA ROSTRATA		5
EUCHAETA ANTARCTICA	0.28	38
METRIDIA GERLACHEI		4
PARATHEMISTO GAUDICHAUDI BISP	1.11	15
PARATHEMISTO GAUDICHAUDI COMP	0.33	5
HYPERIELLA DILATATA	0.08	3
VIBILIA STEBBINGI	0.05	1
SPONGIOBRANCHAEA AUSTRALIS	0.04	1
CLIO PYRAMIDATA	0.81	7
CRANCHIIDAE INDET	0.05	1
SALPA THOMPSONI (SOL)	5.43	18
SALP INDET	0.21	2
ELECTRONA ANTARCTICA	2.53	1
NOTOLEPIS COATSI LARVA	0.06	1
EUPHAUSIIDS E.SUPERBA	18.10	15
EUPHAUSIIDS E.FRIGIDA	0.18	5
EUPHAUSIIDS E.TRIACANTHA	0.70	2
EUPHAUSIIDS T.MACRURA	1.51	17
EUPHAUSIIDS THYSANOESSA SP	11.13	357
EUPHAUSIIDS INDET	0.48	12

DATE: 19/ 2/81 HAUL: 088 NET: RMT2

GMT: 1752 TOTAL WEIGHT: 462.70 TOTAL COUNT: 1092

SHOULD NAME	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	5.41	7
VANADIS ANTARCTICA	0.14	1
SAGITTA GAZELLAE	4.69	27
SAGITTA SP	0.39	3
EUKROHNIA HAMATA	0.01	1
OSTRACOD	0.03	9
CALANUS PROPINQUUS	0.46	42
CALANOIDES ACUTUS	0.13	27
RHINCALANUS GIGAS		16
EUCHIRELLA ROSTRATA		14
EUCHAETA ANTARCTICA	0.93	91
METRIDIA GERLACHEI		15
PLEUROMAMMA SP		10
PARATHEMISTO GAUDICHAUDI BISP	4.32	39
PARATHEMISTO GAUDICHAUDI COMP	1.18	11
PRIMNO MACROPA	0.08	1
VIBILIA SP	0.90	2
NEMATOCARCINUS SP LARVA	0.65	4
CLIO PYRAMIDATA	1.42	8
ALLUROTEUTHIS ANTARCTICUS	0.67	1
SALPA THOMPSONI (AGG)	21.44	55
IHLEA RACOVITZAI (SOL)	17.33	41
IHLEA SP	22.13	60
ELECTRONA ANTARCTICA	38.56	9
EUPHAUSIIDS E.SUPERBA	329.10	274
EUPHAUSIIDS E.FRIGIDA	1.45	30
EUPHAUSIIDS T.MACRURA	1.38	20
EUPHAUSIIDS THYSANOESSA SP	5.65	254
EUPHAUSIIDS INDET	1.18	20
RESIDUE	3.06	

DATE: 20/ 2/81 HAUL: 089 NET: BR1000A
 GMT: 0454 TOTAL WEIGHT: 10.84 TOTAL COUNT: 705

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.86	3
SAGITTA SP	0.12	4
CALANUS PROPINQUUS	0.28	24
CALANOIDES ACUTUS	0.13	34
RHINCALANUS GIGAS	5.11	537
EUCHAETA ANTARCTICA		2
PARATHEMISTO GAUDICHAUDI BISP	0.40	10
PRIMNO MACROPA	0.18	3
CLIONE LIMACINA	0.12	1
CLIO PYRAMIDATA	0.61	10
CRANCHIIDAE INDET	0.09	1
NOTOLEPIS COATSI LARVA	0.08	2
EUPHAUSIIDS E.FRIGIDA	0.01	1
EUPHAUSIIDS T.MACRURA	0.61	13
EUPHAUSIIDS THYSANOESSA SP	1.20	46
EUPHAUSIIDS INDET	1.04	14

DATE: 20/ 2/81 HAUL: 090 NET: RMT2
 GMT: 0543 TOTAL WEIGHT: 172.11 TOTAL COUNT: 1465

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	5.38	3
TOMOPTERIS CARPENTERI	11.30	10
VANADIS ANTARCTICA	2.18	6
SAGITTA GAZELLAE	0.99	36
SAGITTA SP	0.28	13
CALANUS PROPINQUUS		3
CALANOIDES ACUTUS	0.21	58
RHINCALANUS GIGAS	3.31	372
EUCHAETA ANTARCTICA		1
HALOPTILUS OCELLATUS		1
PARATHEMISTO GAUDICHAUDI BISP	0.18	2
PRIMNO MACROPA	0.27	5
HYPERIELLA DILATATA	0.03	1
CLIONE LIMACINA	0.11	1
SPONGIOBRANCHAEA AUSTRALIS	1.28	14
HETEROPOD INDET		1
CLIO PYRAMIDATA	142.27	900
CRANCHIIDAE INDET	0.29	3
MYCTOPHID LARVA	2.11	26
FISH LARVA INDET	0.09	3
EUPHAUSIIDS T.MACRURA	1.83	16

DATE: 20/ 2/81 ABD HAUL: 091 NET: RMT2

GMT: 1716 DATOT TOTAL WEIGHT: 239.64 DATOT TOTAL COUNT: 4296

	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	2.66	4
TOMOPTERIS SP	0.05	4
SAGITTA GAZELLAE	28.29	400
SAGITTA SP	10.59	253
EUKROHNIA HAMATA	0.51	44
EUKROHNIA SP	0.16	29
OSTRACOD	0.52	6
CALANUS PROPINQUUS	0.53	82
CALANOIDES ACUTUS	0.19	43
RHINCALANUS GIGAS	2.98	615
EUCHIRELLA ROSTRATA		31
EUCHAETA ANTARCTICA	0.39	81
METRIDIA GERLACHEI		7
HALOPTILUS OCELLATUS		4
PLEUROMAMMA SP		4
PARATHEMISTO GAUDICHAUDI BISP	40.76	646
PARATHEMISTO GAUDICHAUDI COMP	3.54	37
SPONGIOBRANCHAEA AUSTRALIS	0.05	3
CLIO PYRAMIDATA	3.38	40
ALLUROTEUTHIS ANTARCTICUS	0.16	1
SALPA THOMPSONI (AGG)	2.30	6
SALPA THOMPSONI (SOL)	0.23	1
IHLÉA RACOVITZAI (SOL)	3.19	19
IHLÉA SP	8.41	34
ELECTRONA ANTARCTICA	37.84	21
NOTOLEPIS COATSI	0.20	1
EUPHAUSIIDS E.SUPERBA	11.69	11
EUPHAUSIIDS E.FRIGIDA	7.44	116
EUPHAUSIIDS T.MACRURA	28.23	408
EUPHAUSIIDS THYSANOESSA SP	32.55	1184
EUPHAUSIIDS THYSANOESSA SP F4		1
EUPHAUSIIDS THYSANOESSA SP F5		2
EUPHAUSIIDS THYSANOESSA SP F6		3
EUPHAUSIIDS INDET	9.78	155
RESIDUE	3.01	

DATE: 20/ 2/81 HAUL: 092 NET: BR1000A
GMT: 1806 TOTAL WEIGHT: 55.12 TOTAL COUNT: 1747

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.52	5
TOMOPTERIS CARPENTERI	1.78	2
TOMOPTERIS SP	0.02	1
SAGITTA GAZELLAE	5.25	32
SAGITTA MARRI	0.02	1
SAGITTA SP	2.70	58
EUKROHNIA HAMATA	0.84	87
EUKROHNIA SP	0.66	110
CALANUS PROPINQUUS	0.22	41
CALANOIDES ACUTUS	0.28	78
RHINCALANUS GIGAS	5.68	897
EUCHIRELLA ROSTRATA		15
EUCHAETA ANTARCTICA		28
METRIDIA GERLACHEI		1
PLEUROMAMMA SP		1
HALOPTILUS OCELLATUS		8
PARATHEMISTO GAUDICHAUDI BISP	0.80	8
PARATHEMISTO GAUDICHAUDI COMP	0.40	4
HYPERIELLA DILATATA	0.03	1
SPONGIOBRANCHAEA AUSTRALIS	0.11	3
CLIO PYRAMIDATA	0.56	10
ELECTRONA ANTARCTICA	4.93	3
GYMNOSCOPELUS BRAUERI	13.80	1
NOTOLEPIS COATSI LARVA	0.03	1
EUPHAUSIID E.FRIGIDA	1.08	21
EUPHAUSIID E.TRIACANTHA	1.86	5
EUPHAUSIID T.MACRURA	2.79	44
EUPHAUSIID THYSANOESSA SP	6.37	249
EUPHAUSIID THYSANOESSA SP F2		1
EUPHAUSIID THYSANOESSA SP F5		4
EUPHAUSIID THYSANOESSA SP F6		6
EUPHAUSIID THYSANOESSA SP F?		2
EUPHAUSIID INDET	1.46	19
RESIDUE	2.93	

DATE: 21/ 2/81

HAUL: 093

NET: BR1000A

GMT: 0453

TOTAL WEIGHT: 13.13

TOTAL COUNT: 606

TRICO DATOS		WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.64	4	
SAGITTA GAZELLAE	0.54	14	
SAGITTA MARRI	0.01	1	
SAGITTA SP	0.46	22	
EUKROHNIA HAMATA	0.02	5	
EUKROHNIA SP	0.05	10	
CALANUS PROPINQUUS		13	
CALANOIDES ACUTUS	0.11	31	
RHINCALANUS GIGAS	2.23	418	
EUCHIRELLA ROSTRATA		1	
EUCHAETA ANTARCTICA		6	
HALOPTILUS OCELLATUS		1	
PARATHEMISTO GAUDICHAUDI BISP	0.10	3	
PRIMNO MACROPA	0.14	6	
HYPERIELLA DILATATA	0.04	1	
NEMATOCARCINUS SP LARVA	0.01	3	
CLIO PYRAMIDATA	1.20	9	
MYCTOPHID LARVA	0.04	2	
EUPHAUSIIDS E.SUPERBA	6.55	6	
EUPHAUSIIDS E.FRIGIDA		2	
EUPHAUSIIDS THYSANOESSA SP	0.54	26	
EUPHAUSIIDS INDET	0.45	22	

TRICO DATOS 280 1300

TRICO DATOS 280 1300

TRICO DATOS

L	88.0	TRICO DATOS
L	88.0	SIPHONOPHORE NECTOPHORE
O		SAGITTA GAZELLAE
S		SAGITTA MARRI
E		EUKROHNIA HAMATA
J		EUKROHNIA SP
J	88.0	CALANUS PROPINQUUS
S	28.0	CALANOIDES ACUTUS
S	82.1	RHINCALANUS GIGAS
B	82.0	EUCHIRELLA ROSTRATA
DE	88.1	EUCHAETA ANTARCTICA
A	88.0	HALOPTILUS OCELLATUS
SE	88.858	PARATHEMISTO GAUDICHAUDI BISP
SI	88.0	PRIMNO MACROPA
I	88.0	HYPERIELLA DILATATA

DATE: 21/ 2/81 HAUL: 094 NET: RMT2
GMT: 0542 TOTAL WEIGHT: 567.33 TOTAL COUNT: 1471

	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	16.79	16
VANADIS ANTARCTICA	4.57	9
SAGITTA GAZELLAE	0.51	8
SAGITTA SP	0.85	19
EUKROHNIA HAMATA	0.04	2
CALANUS PROPINQUUS	0.23	45
CALANOIDES ACUTUS	0.11	39
RHINCALANUS GIGAS	0.92	106
PARATHEMISTO GAUDICHAUDI BISP	0.18	2
PRIMNO MACROPA	0.42	7
HYPERIELLA DILATATA	0.05	1
CLIONE LIMACINA	0.23	2
SPONGIOBRANCHAEA AUSTRALIS	0.58	3
CLIO PYRAMIDATA	160.02	710
MYCTOPHID LARVA	0.74	10
EUPHAUSIIDS E.SUPERBA	369.40	342
EUPHAUSIIDS T.MACRURA	10.12	125
EUPHAUSIIDS THYSANOESSA SP	1.54	24
EUPHAUSIIDS INDET	0.03	1

DATE: 21/ 2/81 HAUL: 095 NET: RMT2
GMT: 1002 TOTAL WEIGHT: 886.50 TOTAL COUNT: 1098

	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	3.49	3
CALANUS PROPINQUUS	0.65	95
CALANOIDES ACUTUS		6
RHINCALANUS GIGAS		2
EUCHAETA ANTARCTICA		1
PARATHEMISTO GAUDICHAUDI BISP	0.09	1
PRIMNO MACROPA	0.05	2
SPONGIOBRANCHAEA AUSTRALIS	1.52	12
HETEROPOD INDET	0.51	8
CLIO PYRAMIDATA	1.40	20
PLEURAGRAMMA ANTARCTICUM LARVA	0.09	2
EUPHAUSIIDS E.SUPERBA	878.00	935
EUPHAUSIIDS THYSANOESSA SP	0.66	10
EUPHAUSIIDS INDET	0.04	1

DATE: 21/ 2/81 HAUL: 096 NET: RMT2
 GMT: 1028 TOTAL WEIGHT: 2403.69 TOTAL COUNT: 2072

		WEIGHT	COUNT
	PRIMNO MACROPA	0.07	1
	SPONGIOBRANCHAEA AUSTRALIS	1.68	9
096A	EUPHAUSIIDS E.SUPERBA	1401.46	1199
	EUPHAUSIIDS THYSANOESSA SP	0.48	7
	TOTAL WEIGHT E.SUPERBA IN SAMPLE	2401.46	GR

DATE: 21/ 2/81 HAUL: 097 NET: RMT2
 GMT: 1118 TOTAL WEIGHT: 335.66 TOTAL COUNT: 3269

		WEIGHT	COUNT
	TOMOPTERIS CARPENTERI	29.50	27
	RHYNCHONERELLA SP		2
	CALANUS PROPINQUUS	0.02	6
	PRIMNO MACROPA	0.22	4
	CLIONE LIMACINA	0.23	1
	SPONGIOBRANCHAEA AUSTRALIS	1.77	15
	CLIO PYRAMIDATA	0.27	5
	SALPA THOMPSONI (AGG)	0.46	1
	EUPHAUSIIDS E.SUPERBA	191.27	161
	EUPHAUSIIDS THYSANOESSA SP	111.23	3046
	EUPHAUSIIDS INDET	0.09	1
	RESIDUE	0.60	

DATE: 21/ 2/81 HAUL: 098 NET: RMT2
 GMT: 1700 POT TOTAL WEIGHT: 162.03 TOTAL COUNT: 1926

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	3.40	12
CTENOPHORE	40.71	21
TOMOPTERIS CARPENTERI	1.11	1
TOMOPTERIS SP	0.02	2
VANADIS ANTARCTICA	0.10	1
RHYNCHONERELLA SP		1
SAGITTA GAZELLAE	3.90	77
SAGITTA SP	0.52	16
EUKROHNIA HAMATA	0.07	9
CALANUS PROPINQUUS	7.14	770
CALANOIDES ACUTUS	0.21	40
RHINCALANUS GIGAS	6.38	597
EUCHIRELLA ROSTRATA		8
PSEUDOCHIRELLA SP		1
EUCHAETA ANTARCTICA	0.55	131
METRIDIA GERLACHEI		21
HALOPTILUS OCELLATUS		10
COPEPOD INDET		3
PARATHEMISTO GAUDICHAUDI BISP	0.23	2
PARATHEMISTO GAUDICHAUDI COMP	0.21	2
PRIMNO MACROPA	0.06	1
HYPERIELLA DILATATA	0.07	1
HYPERIA ANTARCTICA	0.13	2
NEMATOCARCINUS SP LARVA	0.13	1
CLIONE LIMACINA	0.27	1
HETEROPOD INDET		2
CLIO PYRAMIDATA	14.38	58
GALITEUTHIS GLACIALIS	1.43	10
ALLUROTEUTHIS ANTARCTICUS	0.26	3
SALPA THOMPSONI (AGG)	6.55	10
IHLÉA RACOVITZAI (SOL)	3.26	5
IHLÉA SP	3.07	7
ELECTRONA ANTARCTICA	41.11	17
NOTOLEPIS COATSI	0.21	2
EUPHAUSIIDS E.SUPERBA	19.22	22
EUPHAUSIIDS T.MACRURA	6.84	48
EUPHAUSIIDS THYSANOESSA SP	0.19	4
EUPHAUSIIDS INDET	0.30	7

DATE: 21/ 2/81 HAUL: 099 NET: BR1000A

GMT: 1748 TOTAL WEIGHT: 70.76 TOTAL COUNT: 429

		WEIGHT	COUNT
RADIOLARIAN		0.01	1
CALYCOPSIS BORCHGREVINKI		5.23	3
SIPHONOPHORE NECTOPHORE		9.68	4
SIPHONOPHORE BRACT		1.00	
POLYCHAETE ALCIOPIDAE		0.50	1
SAGITTA GAZELLAE		0.09	4
SAGITTA MARRI		0.02	2
SAGITTA SP		0.07	3
EUKROHNIA SP		0.01	2
CHAETOGNATH INDET			2
CALANUS PROPINQUUS		0.55	67
CALANOIDES ACUTUS		0.23	56
RHINCALANUS GIGAS		1.35	107
EUCHIRELLA ROSTRATA			6
EUCHAETA ANTARCTICA		0.45	45
METRIDIA GERLACHEI			6
HALOPTILUS OCELLATUS			1
PARATHEMISTO GAUDICHAUDI BISP		0.28	3
PARATHEMISTO GAUDICHAUDI COMP		0.11	1
HYPERIELLA DILATATA		0.12	5
NEMATOCARCINUS SP LARVA		0.01	1
CLIONE LIMACINA		0.07	2
LIMACINA HELICINA			8
CLIO PYRAMIDATA		0.13	3
SALPA THOMPSONI (AGG)		9.37	17
SALPA SP		0.60	2
IHLÉA SP		0.35	1
SALP INDET		0.25	1
ELECTRONA ANTARCTICA		5.92	3
NOTOLEPIS COATSI LARVA		0.11	6
EUPHAUSIIDS E.SUPERBA		32.76	49
EUPHAUSIIDS E.TRIACANTHA		0.52	2
EUPHAUSIIDS T.MACRURA		0.72	7
EUPHAUSIIDS THYSANOESSA SP		0.10	4
EUPHAUSIIDS INDET		0.15	4

DATE: 22/ 2/81 HAUL: 100 NET: BR1000A

GMT: 0451 TOTAL WEIGHT: 48.70 TOTAL COUNT: 464

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.27	3
TOMOPTERIS CARPENTERI	0.92	1
SAGITTA SP	0.02	2
EUKROHNIA HAMATA		1
EUKROHNIA SP	0.02	3
CALANUS PROPINQUUS	0.43	55
CALANOIDES ACUTUS	0.41	93
RHINCALANUS GIGAS	1.83	176
EUCHIRELLA ROSTRATA		3
EUCHAETA ANTARCTICA	0.47	30
METRIDIA GERLACHEI		4
PARATHEMISTO GAUDICHAUDI BISP	1.54	16
PARATHEMISTO GAUDICHAUDI COMP	0.48	4
PRIMNO MACROPA	0.15	3
CLIO PYRAMIDATA	0.76	5
NOTOLEPIS COATSI LARVA	0.05	1
EUPHAUSIIDS E.SUPERBA	40.35	47
EUPHAUSIIDS THYSANOESSA SP	0.84	15
EUPHAUSIIDS INDET	0.16	2

DATE: 22/ 2/81 HAUL: 101 NET: RMT2

GMT: 0540 TOTAL WEIGHT: 97.06 TOTAL COUNT: 1273

	WEIGHT	COUNT
MEDUSA INDET	1.06	1
TOMOPTERIS CARPENTERI	3.39	3
VANADIS ANTARCTICA	0.82	3
SAGITTA SP	0.05	3
EUKROHNIA HAMATA	0.01	1
EUKROHNIA SP	0.02	2
CALANUS PROPINQUUS	0.23	42
CALANOIDES ACUTUS	1.55	602
RHINCALANUS GIGAS	3.45	423
PARATHEMISTO GAUDICHAUDI BISP	0.69	7
PRIMNO MACROPA	0.49	12
CLIO PYRAMIDATA	9.12	54
GALITEUTHIS GLACIALIS	0.16	1
MYCTOPHID LARVA	0.03	1
EUPHAUSIIDS E.SUPERBA	72.53	80
EUPHAUSIIDS T.MACRURA	3.45	37
EUPHAUSIIDS THYSANOESSA SP	0.01	1

DATE: 22/ 2/81 AGO HAUL: 102 NET: RMT2

GMT: 1107 TOTAL WEIGHT: 1349.37 TOTAL COUNT: 2032

NAME	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	11.71	4
TOMOPTERIS CARPENTERI	10.02	12
VANADIS ANTARCTICA	15.73	11
SAGITTA GAZELLAE	0.20	1
CALANUS PROPINQUUS	4.99	523
CALANOIDES ACUTUS	37	
RHINCALANUS GIGAS	7	
EUCHAETA ANTARCTICA	11	
PARATHEMISTO GAUDICHAUDI BISP	15.31	93
PRIMNO MACROPA	1.09	11
HYPERIA MACROCEPHALA	0.12	1
NEMATOCARCINUS SP LARVA	0.36	2
CLIONE LIMACINA	0.08	1
CLIO PYRAMIDATA	3.22	26
EUPHAUSIIDS E.SUPERBA	1282.40	1235
EUPHAUSIIDS E.FRIGIDA	0.11	2
EUPHAUSIIDS T.MACRURA	2.38	20
EUPHAUSIIDS THYSANOESSA SP	1.56	33
EUPHAUSIIDS INDET	0.09	2
EU		
E 00.1		
E 02.8		
E 02.0		
E 02.0		
E 00.3		
E 02.0		
E 01.0		
E 02.1		
E 02.0		

DATE: 22/ 2/81 HAUL: 103 NET: BR1000A

GMT: 1658 TOTAL WEIGHT: 32.12 TOTAL COUNT: 566

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	0.57	1
SIPHONOPHORE NECTOPHORE	0.77	4
TOMOPTERIS SP	0.01	1
SAGITTA GAZELLAE	0.33	2
SAGITTA SP	0.18	2
EUKROHNIA SP	0.10	8
CALANUS PROPINQUUS	1.21	111
CALANOIDES ACUTUS	0.63	99
RHINCALANUS GIGAS	1.74	159
EUCHIRELLA ROSTRATA		10
EUCHAETA ANTARCTICA	0.51	44
METRIDIA GERLACHEI		1
HALOPTILUS OCELLATUS		1
PARATHEMISTO GAUDICHAUDI BISP	0.33	5
PARATHEMISTO GAUDICHAUDI COMP	0.27	3
PRIMNO MACROPA	0.09	2
HYPERIELLA DILATATA	0.03	1
NEMATOCARCINUS SP LARVA	0.01	2
CLIONE LIMACINA	0.09	1
CLIO PYRAMIDATA	5.18	21
IHLÉA SP	1.00	1
ELECTRONA ANTARCTICA	8.36	3
MYCTOPHID LARVA	0.26	2
NOTOLEPIS COATSI LARVA	0.20	2
EUPHAUSIIDS E.SUPERBA	8.08	17
EUPHAUSIIDS E.TRIACANTHA	0.23	1
EUPHAUSIIDS T.MACRURA	0.16	1
EUPHAUSIIDS THYSANOESSA SP	1.57	57
EUPHAUSIIDS INDET	0.21	3

DATE: 22/ 2/81

HAUL: 104

NET: RMT2

GMT: 1744 TOTAL WEIGHT: 101.53 TOTAL COUNT: 2105

	WEIGHT	COUNT
MEDUSA INDET	4.09	4
CALYCOPSIS BORCHGREVINKI	3.04	1
TOMOPTERIS CARPENTERI	0.17	1
TOMOPTERIS SEPTENTRIONALIS	0.04	2
TOMOPTERIS SP	0.74	23
VANADIS ANTARCTICA	0.60	1
RHYNCHONERELLA SP	0.03	2
SAGITTA GAZELLAE	14.84	130
SAGITTA SP	1.00	15
EUKROHNIA HAMATA		1
CALANUS PROPINQUUS	7.43	857
CALANOIDES ACUTUS	0.63	144
RHINCALANUS GIGAS	3.14	323
EUCHIRELLA ROSTRATA		10
EUCHAETA ANTARCTICA	3.86	377
METRIDIA GERLACHEI		12
PLEUROMAMMA SP		8
HALOPTILUS OCELLATUS		3
PARATHEMISTO GAUDICHAUDI BISP	0.61	5
PARATHEMISTO GAUDICHAUDI COMP	0.98	8
NEMATOCARCINUS SP LARVA	0.02	3
CLIO PYRAMIDATA	2.68	13
GALITEUTHIS GLACIALIS	0.48	9
ALLUROTEUTHIS ANTARCTICUS	1.21	1
SALPA THOMPSONI (SOL)	0.31	1
SALPA THOMPSONI (AGG)	2.44	7
IHLÉA RACOVITZAI (SOL)	0.55	3
ELECTRONA ANTARCTICA	36.82	15
MYCTOPHID LARVA	0.51	8
EUPHAUSIIDS E.SUPERBA	6.35	37
EUPHAUSIIDS T.MACRURA	0.65	5
EUPHAUSIIDS THYSANOESSA SP	1.95	76
RESIDUE	6.36	

DATE: 22/ 2/81 HAUL: 105 NET: RMT2
GMT: 2007 TOTAL WEIGHT: 1681.58 TOTAL COUNT: 2003

	WEIGHT	COUNT
ATOLLA WYVILLEI	1450.00	1
NEMERTINE	0.20	1
TOMOPTERIS CARPENTERI	48.46	36
VANADIS ANTARCTICA	12.47	17
SAGITTA GAZELLAE	35.28	89
SAGITTA SP	0.10	3
CALANUS PROPINQUUS	6.43	684
CALANOIDES ACUTUS	1.22	334
RHINCALANUS GIGAS		3
EUCHAETA ANTARCTICA		1
METRIDIA GERLACHEI	0.40	101
PARATHEMISTO GAUDICHAUDI BISP	26.33	136
PARATHEMISTO GAUDICHAUDI COMP	44.64	317
HYPERIELLA DILATATA	0.10	3
GAMMARIDEA INDET	0.01	1
NEMATOCARCINUS SP LARVA	0.44	1
SPONGIOBRANCHAEA AUSTRALIS	4.61	39
CLIO PYRAMIDATA	24.26	97
SALPA THOMPSONI (SOL)	0.52	1
IHLÉA RACOVITZAI (SOL)	0.89	3
ELECTRONA ANTARCTICA	2.92	3
PAGETOPSIS MACROPTERUS	1.36	1
EUPHAUSIIDS E.SUPERBA	20.71	127
EUPHAUSIIDS E.CRYSTALLOROPHIAS	0.18	3
EUPHAUSIIDS E.FRIGIDA	0.05	1

DATE: 23/ 2/81 ADD HAUL: 106 NET: RMT2

GMT: 0452 DATOT TOTAL WEIGHT: 83.15 GT TOTAL COUNT: 1522

THUOD THOISEN	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	6.73	3
SIPHONOPHORE NECTOPHORE	2.64	7
TOMOPTERIS CARPENTERI	27.15	26
TOMOPTERIS SP	2.07	3
VANADIS ANTARCTICA	3.31	10
RHYNCHONERELLA SP		5
SAGITTA GAZELLAE	2.25	43
SAGITTA SP	0.68	15
EUKROHNIA SP	0.01	1
CALANUS PROPINQUUS	0.31	42
CALANOIDES ACUTUS	1.54	674
RHINCALANUS GIGAS	1.65	254
EUCHAETA ANTARCTICA		1
PARATHEMISTO GAUDICHAUDI BISP	0.63	7
PARATHEMISTO GAUDICHAUDI COMP	0.11	1
PRIMNO MACROPA	0.83	14
NEMATOCARCINUS SP LARVA	0.08	7
SPONGIOBRANCHAEA AUSTRALIS	0.27	4
CLIO PYRAMIDATA	6.28	30
CRANCHIIDAE INDET	0.36	5
ALLUROTEUTHIS ANTARCTICUS	1.48	3
MYCTOPHID LARVA	0.62	7
EUPHAUSIIDS E.SUPERBA	5.81	6
EUPHAUSIIDS THYSANOESSA SP	19.34	353
EUPHAUSIIDS THYSANOESSA SP F5		1

DATE: 23/ 2/81 HAUL: 107 NET: BR1000A 18:00 18:00
GMT: 0539 TOTAL WEIGHT: 6.22 OT TOTAL COUNT: 159

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	1.02	1
TOMOPTERIS CARPENTERI	0.69	1
SAGITTA GAZELLAE	0.02	1
CALANUS PROPINQUUS	20	
CALANOIDES ACUTUS	0.13	51
RHINCALANUS GIGAS	0.55	66
EUCHAETA ANTARCTICA	9	
PARATHEMISTO GAUDICHAUDI BISP	1	
HYPERIELLA DILATATA	1	
NEMATOCARCINUS SP LARVA	0.01	1
CLIO PYRAMIDATA	1	
NOTOLEPIS COATSI LARVA	0.06	2
EUPHAUSIIDS E.SUPERBA	3.74	4

DATE: 24/ 2/81 HAUL: 108 NET: RMT2
 GMT: 1709 DEPT: TOTAL WEIGHT: 526.10 TOTAL COUNT: 1502

	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	0.13	1
TOMOPTERIS SP	0.16	3
TRAVISIONOPSIS LEVINSENI	0.05	1
RHYNCHONERELLA SP		1
SAGITTA GAZELLAE	3.77	31
SAGITTA SP	0.80	12
EUKROHNIA SP	0.01	5
CALANUS PROPINQUUS	0.34	32
CALANOIDES ACUTUS		17
RHINCALANUS GIGAS	1.63	155
EUCHIRELLA ROSTRATA	0.71	53
EUCHAETA ANTARCTICA	2.01	194
PLEUROMAMMA SP		3
PARATHEMISTO GAUDICHAUDI BISP	2.96	31
PARATHEMISTO GAUDICHAUDI COMP	1.39	14
PRIMNO MACROPA	0.01	1
HYPERIELLA DILATATA	0.25	3
HYPERIA MACROCEPHALA	0.01	1
NEMATOCARCINUS SP LARVA	0.09	3
SPONGIOBRANCHAEA AUSTRALIS	0.23	2
CLIO PYRAMIDATA	2.88	17
GALITEUTHIS GLACIALIS	0.20	3
SALPA THOMPSONI (SOL)	0.36	2
SALPA THOMPSONI (AGG)	0.16	1
ELECTRONA ANTARCTICA	251.60	71
EUPHAUSIIDS E.SUPERBA	214.57	352
EUPHAUSIIDS E.FRIGIDA	0.12	1
EUPHAUSIIDS E.TRIACANTHA	0.33	2
EUPHAUSIIDS T.MACRURA	2.80	18
EUPHAUSIIDS THYSANOESSA SP	16.03	468
EUPHAUSIIDS INDET	0.07	4
RESIDUE	22.43	

DATE: 24/ 2/81 HAUL: 109 NET: BR1000A

GMT: 1758 TOTAL WEIGHT: 32.85 TOTAL COUNT: 953

	WEIGHT	COUNT
SAGITTA SP	0.02	1
EUKROHNIA SP	0.03	5
CALANUS PROPINQUUS	1.72	153
CALANOIDES ACUTUS	0.67	109
RHINCALANUS GIGAS	3.91	341
EUCHIRELLA ROSTRATA		21
EUCHAETA ANTARCTICA	0.70	165
METRIDIA GERLACCHEI		12
PLEUROMAMMA SP		1
PARATHEMISTO GAUDICHAUDI BISP	0.60	6
PARATHEMISTO GAUDICHAUDI COMP	0.60	6
HYPERIELLA DILATATA	0.20	1
AMPHIPOD LARVA INDET		4
NEMATOCARCINUS SP LARVA	0.08	1
CLIO PYRAMIDATA	1.89	5
ELECTRONA ANTARCTICA	6.57	2
EUPHAUSIIDS E. SUPERBA	10.95	16
EUPHAUSIIDS T. MACRURA	0.74	13
EUPHAUSIIDS THYSANOESSA SP	3.17	91

DATE: 3/ 3/81 HAUL: 110 NET: RMT2
 GMT: 2018 TOTAL WEIGHT: 382.20 TOTAL COUNT: 726

	WEIGHT	COUNT
DIPLULMARIS ANTARCTICA	0.79	1
SIPHONOPHORE NECTOPHORE	16.62	50
SIPHONOPHORE BRACT	0.60	
CTENOPHORE	0.25	6
SAGITTA GAZELLAE	1.09	12
SAGITTA SP	0.01	1
EUKROHNIA HAMATA	0.28	20
EUKROHNIA SP	0.01	2
CALANUS PROPINQUUS	0.33	46
CALANOIDES ACUTUS	0.42	80
RHINCALANUS GIGAS		2
EUCHAETA ANTARCTICA	1.37	100
METRIDIA GERLACHEI		11
HIPPOLYTIDAE SP 1 LARVA	0.10	3
CLIONE LIMACINA	0.25	3
HETEROPOD INDET	0.71	11
CLIO PYRAMIDATA	0.15	2
SALPA THOMPSONI (AGG)	223.68	122
IHEA RACOVITZAI (AGG)	52.06	30
PLEURAGRAMMA ANTARCTICUM	55.19	12
PLEURAGRAMMA ANTARCTICUM LARVA	0.09	2
PAGETOPSIS MACROPTERUS	1.39	5
EUPHAUSIIDS E.SUPERBA	9.98	8
EUPHAUSIIDS E.SUPERBA F2		2
EUPHAUSIIDS E.CRYSTALLOROPHIAS	11.50	106
EUPHAUSIIDS E.CRYSTALLOROPHIAS F2		4
EUPHAUSIIDS E.CRYSTALLOROPHIAS F3		9
EUPHAUSIIDS E.CRYSTALLOROPHIAS F?		9
EUPHAUSIIDS T.MACRURA	3.30	30
EUPHAUSIIDS THYSANOESSA SP	2.00	36
EUPHAUSIIDS INDET F3		1

DATE: 3/ 3/81 HAUL: 111 NET: RMT2

GMT: 2134 TOTAL WEIGHT: 954.96 TOTAL COUNT: 8384

	WEIGHT	COUNT
MEDUSA INDET	11.00	14
SIPHONOPHORE NECTOPHORE	0.78	2
CHAETOGNATH INDET	0.02	1
CALANUS PROPINQUUS	1.73	214
CALANOIDES ACUTUS	5.884750	
RHINCALANUS GIGAS		19
EUCHAETA ANTARCTICA	0.44	56
METRIDIA GERLACHEI	1.20	167
PARATHEMISTO GAUDICHAUDI BISP	0.09	4
PARATHEMISTO GAUDICHAUDI COMP	0.19	7
HYPERIELLA DILATATA	0.03	2
AMPHIPOD INDET		1
HIPPOLYTIDAE SP 1 LARVA		3
HETEROPOD INDET	5.03	109
CLIO PYRAMIDATA		1
SALPA THOMPSONI (AGG)	23.24	16
IHLÉA RACOVITZAI (SOL)	1.33	1
IHLÉA RACOVITZAI (AGG)	4.12	2
IHLÉA SP	10.55	13
SALP INDET	7.52	4
PLEURAGRAMMA ANTARCTICUM	641.70	246
PLEURAGRAMMA ANTARCTICUM LARVA	9.00	188
PAGETOPSIS MACROPTERUS	1.35	4
EUPHAUSIIDS E.SUPERBA	155.78	194
111A EUPHAUSIIDS E.SUPERBA F2	0.05	24
111A EUPHAUSIIDS E.SUPERBA F3	0.06	20
111A EUPHAUSIIDS E.SUPERBA F?		1
111A EUPHAUSIIDS E.CRYSTALLOROPHIAS	34.23	184
111A EUPHAUSIIDS E.CRYSTALLOROPHIAS F1		2
111A EUPHAUSIIDS E.CRYSTALLOROPHIAS F2	0.22	114
111A EUPHAUSIIDS E.CRYSTALLOROPHIAS F3	0.15	56
111A EUPHAUSIIDS E.CRYSTALLOROPHIAS F?		6
EUPHAUSIIDS E.FRIGIDA		2
111A EUPHAUSIIDS THYSANOESSA SP	0.20	7
111A EUPHAUSIIDS THYSANOESSA SP F?		1
111A EUPHAUSIIDS INDET F2		1
111A EUPHAUSIIDS INDET F3		1
111A EUPHAUSIIDS INDET F?		4
RESIDUE	38.97	
TOTAL NUMBER EUPHAUSIID FURCILIAE IN SAMPLE 2173		

DATE: 3/ 3/81 HAUL: 112 NET: RMT2
 GMT: 2234 TOTAL WEIGHT: 4119.69 TOTAL COUNT: 5213

		WEIGHT	COUNT
	SIPHONOPHORE NECTOPHORE	9.18	4
	GAMMARIDEA INDET	0.14	5
	SPONGIOBRANCHAEA AUSTRALIS	0.34	2
	HETEROPOD INDET	1.26	39
	SALPA THOMPSONI (AGG)	1.60	1
112A	PLEURAGRAMMA ANTARCTICUM	2269.80	2778
	PLEURAGRAMMA ANTARCTICUM LARVA	4.40	89
	CRYODRACO ANTARCTICUS	0.37	1
	CHAENODRACO WILSONI	0.79	1
	EUPHAUSIIDS E.SUPERBA	4.13	5
	EUPHAUSIIDS E.SUPERBA F1		1
	EUPHAUSIIDS E.SUPERBA F2		1
	EUPHAUSIIDS E.CRYSTALLOROPHIAS	1.36	20
	EUPHAUSIIDS E.CRYSTALLOROPHIAS F1		1
	EUPHAUSIIDS E.CRYSTALLOROPHIAS F2		7
	EUPHAUSIIDS E.CRYSTALLOROPHIAS F3		1
	EUPHAUSIIDS E.FRIGIDA	0.46	10
	EUPHAUSIIDS THYSANOESSA SP F6		1
	EUPHAUSIIDS THYSANOESSA SP F?		1
	EUPHAUSIIDS INDET	0.16	9
	EUPHAUSIIDS INDET F?		2
TOTAL WEIGHT PLEURAGRAMMA IN SAMPLE 4095.5GR			

DATE: 8/ 3/81 HAUL: 113 NET: BR1000A
 GMT: 1240 TOTAL WEIGHT: 1.64 TOTAL COUNT: 11

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	0.47	1
SIPHONOPHORE NECTOPHORE	0.74	2
PARATHEMISTO GAUDICHAUDI BISP	0.07	2
CLIONE LIMACINA	0.07	1
SPONGIOBRANCHAEA AUSTRALIS	0.13	1
EUPHAUSIIDS THYSANOESSA SP	0.16	2
EUPHAUSIIDS THYSANOESSA SP F6		1
EUPHAUSIIDS INDET F?		1

DATE: 8/ 3/81 HAUL: 114 NET: RMT2
GMT: 1329 TOTAL WEIGHT: 157.91 TOTAL COUNT: 246

TRICHTER NAME	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.98	2
SIPHONOPHORE BRACT	1.38	
SAGITTA GAZELLAE		1
SAGITTA SP	0.02	2
CHAETOGNATH INDET	0.01	1
CALANUS PROPINQUUS		4
CALANOIDES ACUTUS		14
RHINCALANUS GIGAS	0.05	5
HYPERIELLA DILATATA	0.01	1
GAMMARIDEA INDET	2.80	9
SPONGIOBRANCHAEA AUSTRALIS	0.66	7
HETEROPOD INDET	1.43	29
CLIO PYRAMIDATA	25.25	193
SALPA THOMPSONI (AGG)	124.26	176
NOTOTHENIID LARVA	0.54	1
CYGNODRACO MAWSONI	0.52	1

DATE: 8/ 3/81 HAUL: 115 NET: RMT2
 GMT: 2147 TOTAL WEIGHT: 1548.09 TOTAL COUNT: 1800

		WEIGHT	COUNT
	SIPHONOPHORE NECTOPHORE	9.01	23
	SAGITTA GAZELLAE	0.12	2
	SAGITTA MARRI	0.01	1
	SAGITTA SP	0.06	4
	EUKROHNIA SP	0.04	6
	CALANUS PROPINQUUS		3
	CALANOIDES ACUTUS		1
	RHINCALANUS GIGAS		5
	EUCHIRELLA ROSTRATA		11
	EUCHAETA ANTARCTICA		9
	METRIDIA GERLACHEI		1
	PLEUROMAMMA SP		1
	PARATHEMISTO GAUDICHAUDI COMP	1.50	9
	NEMATOCARCINUS SP LARVA	0.05	6
	CLIONE LIMACINA	0.11	1
	SPONGIOBRANCHAEA AUSTRALIS	0.28	1
	HETEROPOD INDET		1
	CLIO PYRAMIDATA	9.50	61
	GALITEUTHIS GLACIALIS	0.06	1
	SALPA THOMPSONI (AGG)	162.65	182
	ELECTRONA ANTARCTICA	183.92	51
	GYMNOSCOPELUS NICHOLSI	31.33	3
	GYMNOSCOPELUS BRAUERI	10.76	1
	MYCTOPHID LARVA	0.37	9
	NOTOLEPIS COATSI LARVA	0.12	3
115A	EUPHAUSIIDS E.SUPERBA	375.63	462
	EUPHAUSIIDS E.FRIGIDA		1
	EUPHAUSIIDS T.MACRURA	0.41	4
	EUPHAUSIIDS THYSANOESSA SP	0.25	6
	RESIDUE	4.76	

TOTAL WEIGHT E.SUPERBA IN SAMPLE 1132.43GR

DATE: 8/ 3/81 HAUL: 116 NET: RMT2
GMT: 2236 TOTAL WEIGHT: 1663.57 TOTAL COUNT: 4086

		WEIGHT	COUNT
VANADIS ANTARCTICA		4.71	4
SAGITTA GAZELLAE		0.61	8
SAGITTA SP		0.06	3
EUKROHNIA SP		0.03	5
CALANUS PROPINQUUS			10
CALANOIDES ACUTUS			2
RHINCALANUS GIGAS		0.18	20
PARATHEMISTO GAUDICHAUDI COMP		17.30	94
PRIMNO MACROPA		0.26	4
SPONGIOBRANCHAEA AUSTRALIS		2.31	16
CLIO PYRAMIDATA		1.94	9
116A EUPHAUSIID S. SUPERBA	382.00	913	
EUPHAUSIID T. MACRURA		0.26	1
TOTAL WEIGHT E.SUPERBA IN SAMPLE	1635.90GR		

DATE: 9/ 3/81 HAUL: 117 NET: RMT2
 GMT: 1042 JATCH TOTAL WEIGHT: 69.31 TOTAL COUNT: 1357

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	0.05	1
MEDUSA INDET	0.36	5
SIPHONOPHORE NECTOPHORE	29.79	106
VANADIS ANTARCTICA	6.79	6
SAGITTA GAZELLAE	8.76	185
SAGITTA MARRI	0.01	1
SAGITTA SP	1.89	72
EUKROHNIA HAMATA	0.80	133
EUKROHNIA SP	0.09	33
CALANUS PROPINQUUS		6
CALANOIDES ACUTUS	0.44	92
RHINCALANUS GIGAS	5.71	623
EUCHAETA ANTARCTICA		2
METRIDIA GERLACHEI		1
HALOPTILUS OCCELLATUS		4
COPEPOD INDET		1
PARATHEMISTO GAUDICHAUDI BISP	0.39	7
ARCHEOSCINA SP	0.10	1
NEMATOCARCINUS SP LARVA	0.27	14
CLIONE LIMACINA	0.18	2
SPONGIOBRANCHAEA AUSTRALIS	0.40	4
CLIO PYRAMIDATA	5.36	29
GALITEUTHIS GLACIALIS	0.17	1
MYCTOPHID LARVA	0.85	13
EUPHAUSIIDS E.SUPERBA	6.90	15

	WEIGHT	COUNT
ES	50.0	
E	80.0	
I	10.0	
J	10.0	
S	50.0	
TE		
G		
815	70.1	
E		
S		
NE	80.0	
E	10.0	
SE	40.0	
SE	40.0	

DATE: 9/ 3/81 HAUL: 118 NET: RMT2
GMT: 1124 TOTAL WEIGHT: 8.80 TOTAL COUNT: 779

	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	0.39	1
VANADIS ANTARCTICA	0.08	1
SAGITTA GAZELLAE	0.61	22
SAGITTA SP	1.29	71
EUKROHNIA HAMATA	0.11	7
EUKROHNIA SP	0.05	10
CALANUS PROPINQUUS	0.38	51
CALANOIDES ACUTUS	0.21	77
RHINCALANUS GIGAS	3.49	513
METRIDIA GERLACHEI		1
HALOPTILUS OCELLATUS		5
CLIONE LIMACINA	0.07	1
SPONGIOBRANCHAEA AUSTRALIS	0.17	1
CLIO PYRAMIDATA	1.90	15
EUPHAUSIIDS THYSANOESSA SP	0.05	1
EUPHAUSIIDS THYSANOESSA SP F5		2

DATE: 9/ 3/81 HAUL: 119 NET: BR1000A
GMT: 1212 TOTAL WEIGHT: 3.08 TOTAL COUNT: 288

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.92	23
SAGITTA GAZELLAE	0.08	3
SAGITTA SP	0.01	1
EUKROHNIA HAMATA	0.01	1
EUKROHNIA SP	0.02	4
CALANUS PROPINQUUS		21
CALANOIDES ACUTUS		6
RHINCALANUS GIGAS	1.87	216
EUCHAETA ANTARCTICA		1
HALOPTILUS OCELLATUS		2
COPEPOD INDET		3
PRIMNO MACROPA	0.06	3
HYPERIELLA DILATATA	0.01	1
NEMATOCARCINUS SP LARVA	0.04	1
SPONGIOBRANCHAEA AUSTRALIS	0.06	2

DATE: 10/ 3/81 HAUL: 120 NET: RMT2
GMT: 0348 TOTAL WEIGHT: 260.24 TOTAL COUNT: 3454

NAME	WEIGHT	COUNT
TOMOPTERIS CARPENTERI	3.28	4
VANADIS ANTARCTICA	0.72	2
SAGITTA GAZELLAE	1.40	30
SAGITTA SP	0.45	21
EUKROHNIA HAMATA	0.26	42
EUKROHNIA SP	0.07	27
CALANUS PROPINQUUS		18
CALANOIDES ACUTUS	0.98	201
RHINCALANUS GIGAS	3.52	673
HALOPTILUS OCELLATUS		9
PARATHEMISTO GAUDICHAUDI BISP	75.62	1192
PRIMNO MACROPA	0.83	27
CLIO PYRAMIDATA	0.25	4
MYCTOPHID LARVA	0.84	14
EUPHAUSIIDS E.SUPERBA F3		6
EUPHAUSIIDS T.MACRURA	144.92	1133
EUPHAUSIIDS THYSANOESSA SP F1		1
EUPHAUSIIDS THYSANOESSA SP F2		9
EUPHAUSIIDS THYSANOESSA SP F3		6
EUPHAUSIIDS THYSANOESSA SP F4		8
EUPHAUSIIDS THYSANOESSA SP F5		7
EUPHAUSIIDS THYSANOESSA SP F6		9
EUPHAUSIIDS THYSANOESSA SP F?		1
RESIDUE	27.10	

DATE: 10/ 3/81

HAUL: 121

NET: RMT2

GMT: 0436 TOTAL WEIGHT: 123.70 TOTAL COUNT: 3389

ITEM	WEIGHT	COUNT
SAGITTA GAZELLAE	0.17	5
SAGITTA SP	0.12	7
EUKROHNIA HAMATA	0.04	7
EUKROHNIA SP	0.01	7
CALANUS PROPINQUUS	31	
CALANOIDES ACUTUS	0.22	219
RHINCALANUS GIGAS	3.04	1384
METRIDIA GERLACHEI		1
PARATHEMISTO GAUDICHAUDI BISP	64.05	889
PRIMNO MACROPA	0.92	11
MYCTOPHID LARVA	0.18	2
EUPHAUSIIDS E.SUPERBA	19.74	14
EUPHAUSIIDS T.MACRURA	16.77	150
EUPHAUSIIDS THYSANOESSA SP	7.83	455
EUPHAUSIIDS THYSANOESSA SP F1		1
EUPHAUSIIDS THYSANOESSA SP F2		4
EUPHAUSIIDS THYSANOESSA SP F3		4
EUPHAUSIIDS THYSANOESSA SP F4		10
EUPHAUSIIDS THYSANOESSA SP F5	0.04	32
EUPHAUSIIDS THYSANOESSA SP F6	0.23	150
EUPHAUSIIDS THYSANOESSA SP F?		6
RESIDUE	10.34	

DATE: 10/ 3/81 HAUL: 122 NET: BR1000B

GMT: 0516 TOTAL WEIGHT: 109.85 TOTAL COUNT: 1470

TRILOGY TRINITY	WEIGHT	COUNT
CALAYCOPSIS BORCHGREVINKI	0.18	1
TOMOPTERIS SP	0.65	1
VANADIS ANTARCTICA	1.05	1
SAGITTA GAZELLAE	0.44	10
SAGITTA SP	0.30	14
EUKROHNIA HAMATA	0.10	7
EUKROHNIA SP	0.18	30
CALANUS PROPINQUUS	0.16	16
CALANOIDES ACUTUS	0.19	97
RHINCALANUS GIGAS	6.13	1017
HALOPTILUS OCELLATUS		5
PARATHEMISTO GAUDICHAUDI BISP	13.61	201
PRIMNO MACROPA	0.07	3
CLIO PYRAMIDATA	0.11	2
EUPHAUSIIDS E.SUPERBA F2		1
EUPHAUSIIDS E.FRIGIDA	0.03	2
EUPHAUSIIDS T.MACRURA	2.99	24
EUPHAUSIIDS THYSANOESSA SP	0.80	20
EUPHAUSIIDS THYSANOESSA SP F2		1
EUPHAUSIIDS THYSANOESSA SP F4		5
EUPHAUSIIDS THYSANOESSA SP F5		2
EUPHAUSIIDS THYSANOESSA SP F6		9
EUPHAUSIIDS THYSANOESSA SP F?		1
RESIDUE	83.02	

DATE: 10/ 3/81 HAUL: TR 123 NET: BR1000B ISNE NO1

GMT: 1703 C VACOT TOTAL WEIGHT: 55.52 TOTAL COUNT: 1927

	WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE	0.02	5
TOMOPTERIS SP	1.11	2
SAGITTA GAZELLAE	2.38	19
SAGITTA SP	0.17	27
EUKROHNIA HAMATA	0.15	17
EUKROHNIA SP	0.19	34
CALANUS PROPINQUUS		10
CALANOIDES ACUTUS	0.11	35
RHINCALANUS GIGAS	8.651087	
EUCHIRELLA ROSTRATA		15
EUCHAETA ANTARCTICA	0.37	54
PLEUROMAMMA SP		2
HALOPTILUS OCELLATUS		4
PARATHEMISTO GAUDICHAUDI BISP	2.91	59
HYPERIELLA DILATATA	0.05	1
CLIO PYRAMIDATA	0.34	4
ELECTRONA ANTARCTICA	4.36	4
GYMNOSCOPELUS BRAUERI	5.38	1
MYCTOPHID LARVA	0.03	2
EUPHAUSIIDS E.FRIGIDA	6.75	164
EUPHAUSIIDS E.TRIACANTHA	7.37	25
EUPHAUSIIDS T.MACRURA	2.21	23
EUPHAUSIIDS THYSANOESSA SP	9.04	305
EUPHAUSIIDS INDET	1.28	28
RESIDUE	2.65	

DATE: 15/ 3/81 HAUL: 124 NET: RMT2

GMT: 0657 TOTAL WEIGHT: 29.04 TOTAL COUNT: 276

		WEIGHT	COUNT
SIPHONOPHORE NECTOPHORE		0.74	4
TOMOPTERIS SP		0.35	2
SAGITTA GAZELLAE		1.61	21
SAGITTA SP		0.21	9
EUKROHNIA HAMATA		0.01	1
EUKROHNIA SP		0.01	4
RHINCALANUS GIGAS		0.01	4
PARATHEMISTO GAUDICHAUDI BISP		1.93	31
PARATHEMISTO GAUDICHAUDI COMP		0.26	4
PRIMNO MACROPA		0.05	2
HYPERIELLA DILATATA		0.32	8
VIBILIA STEBBINGI		0.03	1
HYPEROCHE SP		0.02	1
SPONGIOBRANCHAEA AUSTRALIS		0.42	5
LIMACINA RETROVERSA		0.40	47
ALLUROTEUTHIS ANTARCTICUS		0.43	1
BRACHIOTEUTHIS SP		0.28	1
SALPA THOMPSONI (AGG)		19.48	97
SALPA THOMPSONI (SOL)		0.18	1
SALP INDET		0.73	8
PROTOMYCTOPHUM ANDERSSONI		1.38	16
MYCTOPHID LARVA		0.07	3
FISH LARVA INDET		0.12	5

DATE: 15/ 3/81 HAUL: 125 NET: RMT2

GMT: 0740 TOTAL WEIGHT: 1489.04 TOTAL COUNT: 6966

	WEIGHT	COUNT
CALYCOPSIS BORCHGREVINKI	1.70	1
HALICREAS MINIMUM	18.71	9
PANTACHOGON SCOTTI	29.22	20
ATOLLA WYVILLEI	333.95	22
PERIPHYLLA PERIPHYLLA	66.92	2
SIPHONOPHORE NECTOPHORE	0.74	1
OBNEMERTES MAXIMOVI	6.74	8
TOMOPTERIS CARPENTERI	0.44	3
TOMOPTERIS SP	0.37	3
TRAVISIOPSIS LEVINSENI	0.04	2
TRAVISIOPSIS CONICEPS	0.46	10
POLYCHAETE INDET		1
SAGITTA GAZELLAE	167.88	909
SAGITTA MARRI	3.06	119
SAGITTA PLANCTONIS	1.79	13
SAGITTA MAXIMA	0.26	1
SAGITTA SP	4.46	45
EUKROHNIA HAMATA	15.88	823
EUKROHNIA SP	1.66	128
OSTRACOD	2.84	30
COPEPOD	28.102770	
PARATHEMISTO GAUDICHAUDI BISP	6.62	49
PARATHEMISTO GAUDICHAUDI COMP	2.73	15
PRIMNO MACROPA	1.53	17
HYPERIELLA DILATATA	0.11	2
VIBILIA STEBBINGI	2.67	31
HYPEROCHE SP	0.07	1
MEGALANCEOLA SP	7.48	15
PEGOHYPERIA SP	0.73	1
EUANDANIA GIGANTEA	3.81	9
EUSEROIDES STENOPLEURA		2
EURYTHENES OBESUS		1
EUSIRELLA SP		1
STEGOCEPHALID INDET		1
CYPHOCARIS RICHARDI	0.30	22
ANDANIEXIS SP	0.10	8
AMPHIPOD INDET	0.30	3
GNATHOPHAUSIA SP	1.00	4
mysid indet	0.25	1
PASIPHAEA SCOTIA	11.00	13
HYMENODORA GRACILIS	0.56	3
PETALIDIUM FOLIACEUM	17.85	35
PETALIDIUM FOLIACEUM LARVA	0.02	1
ACANTHEPHYRA HAECKELI	4.71	2
SERGESTID INDET	17.64	56
PENAEIDEA INDET	1.00	1
DECAPOD INDET	0.02	2
SPONGIOBRANCHAEA AUSTRALIS	0.61	5
LIMACINA HELICOIDES	0.35	3
CLIO BALANTIUM	3.72	4

CYMBULIA SP	13.88	41
GALITEUTHIS GLACIALIS	0.36	1
ALLUROTEUTHIS ANTARCTICUS	2.47	1
BATHYTEUTHIS ABYSSICOLA	16.88	3
SALPA THOMPSONI (SOL)	12.37	53
SALPA THOMPSONI (AGG)	392.991278	
PROTOMYCTOPHUM ANDERSSONI	21.23	14
PROTOMYCTOPHUM SP	1.08	1
ELECTRONA ANTARCTICA		9
GYMNOSCOPELUS BRAUERI	24.86	4
MYCTOPHID LARVA	0.55	11
NOTOLEPIS COATSI	1.31	2
MACRURID INDET	27.03	4
SCOPELARCHID INDET	15.78	1
FISH BATHYPELAGIC	141.01	91
EUPHAUSIIDS E.FRIGIDA	2.50	50
EUPHAUSIIDS E.FRIGIDA F4	0.01	1
EUPHAUSIIDS E.TRIACANTHA	10.64	63
EUPHAUSIIDS E.VALLENTINI	6.30	60
EUPHAUSIIDS T.MACRURA	3.50	35
EUPHAUSIIDS THYSANOESSA SP	0.24	10
EUPHAUSIIDS INDET	0.07	5
RESIDUE	23.59	
10.0	10.1	
0.0	0.01	
0.0	0.0	
10.0	10.0	
0.0	0.0	
0.0	0.0	

TABLE 1

Taxonomic group	Bongo & conical nets n = 61	RMT blind hauls Without deep hauls n = 36	RMT blind hauls including deep hauls n = 38	RMT aimed hauls n = 23
Medusae	6.09	25.10	29.00	11.05
Siphonophores	4.45	1.05	0.95	0.14
Ctenophores	1.72	0.25	0.32	0.03
Chaetognaths	3.10	0.47	1.15	0.13
Polychaetes	0.90	1.28	1.17	0.40
Copepods	10.93	0.43	0.49	0.10
Amphipods	3.40	0.90	0.92	0.40
Pteropods	3.99	1.14	1.10	0.67
Squid	0.07	0.03	0.12	0.003
Salps	4.36	1.18	2.31	1.23
Fish	3.79	1.02	1.72	9.40
<u>Euphausia superba</u>	44.78	63.92	57.78	75.75
Other <u>Euphausia</u> spp.	1.81	0.49	0.51	0.17
<u>Thysanoessa</u> spp.	10.45	2.39	2.20	0.53
Others*	0.06	0.35	0.26	0.001
Total Weight (g)	2682.24	31323.59	34653.28	40395.63

*includes radiolariens, nemertines, ostracods, mysids, decapods, larvaceans and fish eggs.

Table 1. Percentage composition of catches by nets by weight.

TABLE 2

Taxonomic group	Bongo & conical nets n = 61	RMT blind hauls Without deep hauls n = 36	RMT blind hauls including deep hauls n = 38	RMT aimed hauls n = 23
Medusae	0.07	0.06	0.13	0.35
Siphonophores	0.90	0.28	0.26	0.13
Ctenophores	0.01	0.03	0.03	0.01
Chaetognaths	5.31	3.07	5.73	0.46
Polychaetes	0.23	0.62	0.59	0.24
Copepods	64.40	22.32	23.70	12.32
Amphipods	2.71	4.75	4.52	1.92
Pteropods	1.67	3.18	2.96	1.95
Squid	0.02	0.60	0.08	0.01
Salps	0.59	1.11	2.35	0.59
Fish	0.21	0.70	0.83	7.49
<u>Euphausia superba</u>	5.31	43.46	39.62	62.46
Other <u>Euphausia</u> spp.	4.27	2.11	2.14	5.20
<u>Thysanoessa</u> spp.	12.86	18.33	16.88	7.16
Others*	1.35	0.24	0.45	0.36
Total numbers	63835	91699	100612	78238

*includes radiolarians, nemertines, ostracods, mysids, decapods, larvaceans and fish eggs.

Table 2. Percentage composition of catches by nets by number.

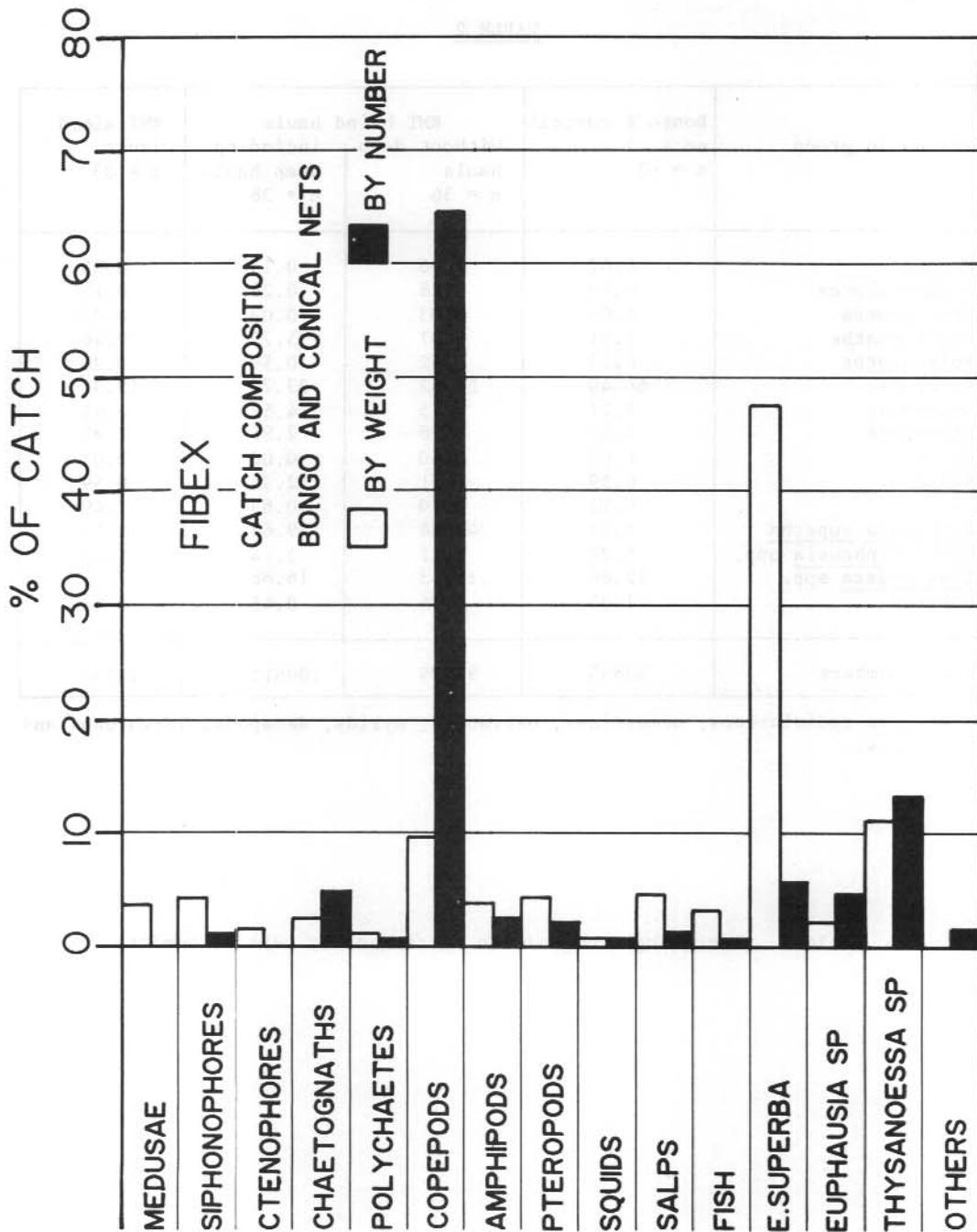


Figure 3. Composition of catch by weight and numbers - bongo and conical nets.

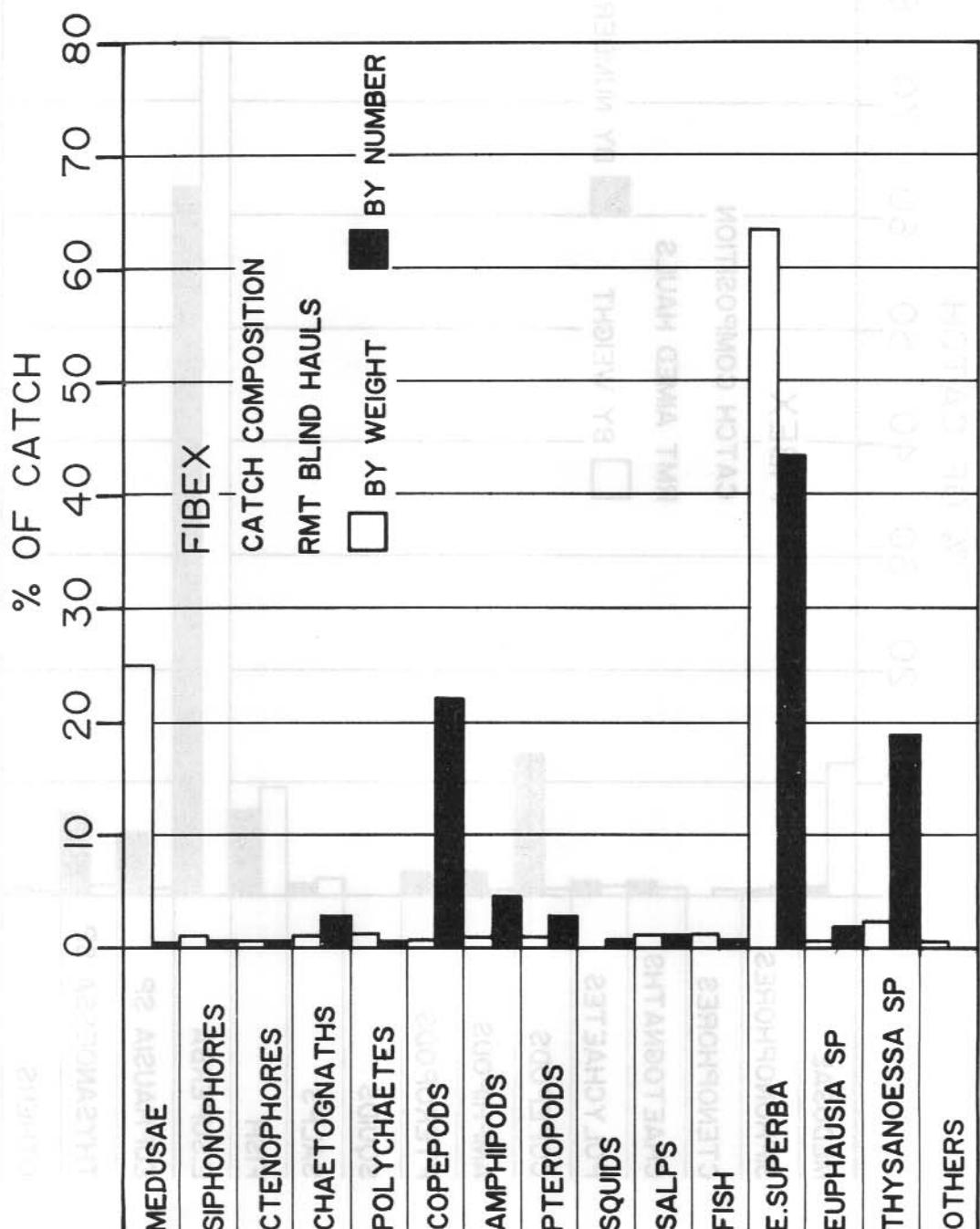


Figure 4. Composition of catch by weight and numbers - RMT blind hauls.

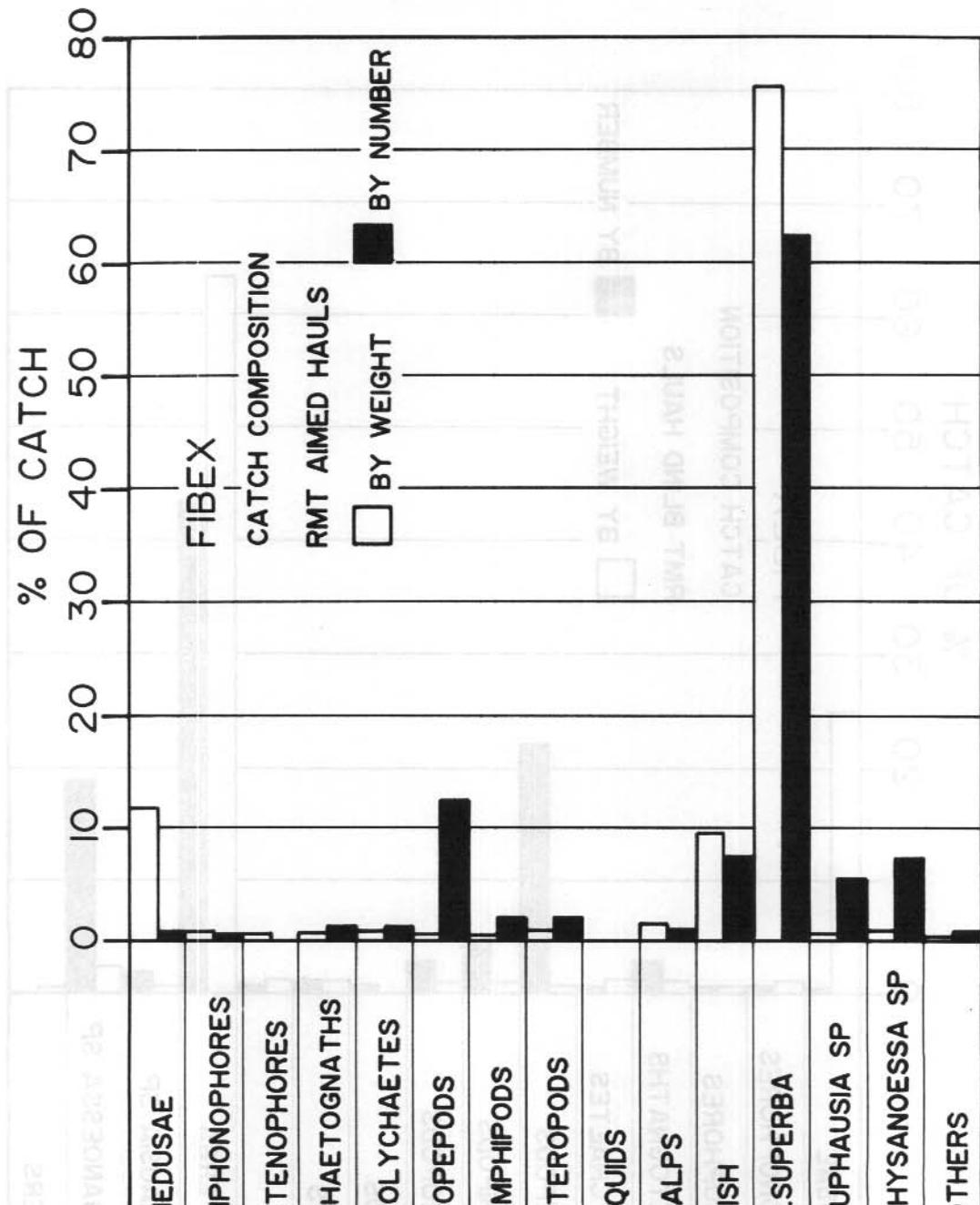


Figure 5. Composition of catch by weight and numbers - RMT aimed hauls.

4. EUPHAUSIA SUPERBA

The following pages present some data on the catch of Euphausia superba.

Figures 6 to 8 show length frequencies of E. superba for all nets; RMT nets only; and bongo nets only.

Figure 9 shows length frequencies of E. superba by geographic area, for the RMT samples.

Figure 10 shows E. superba catch per effort and maturity stage frequencies by geographic area, for the RMT samples.

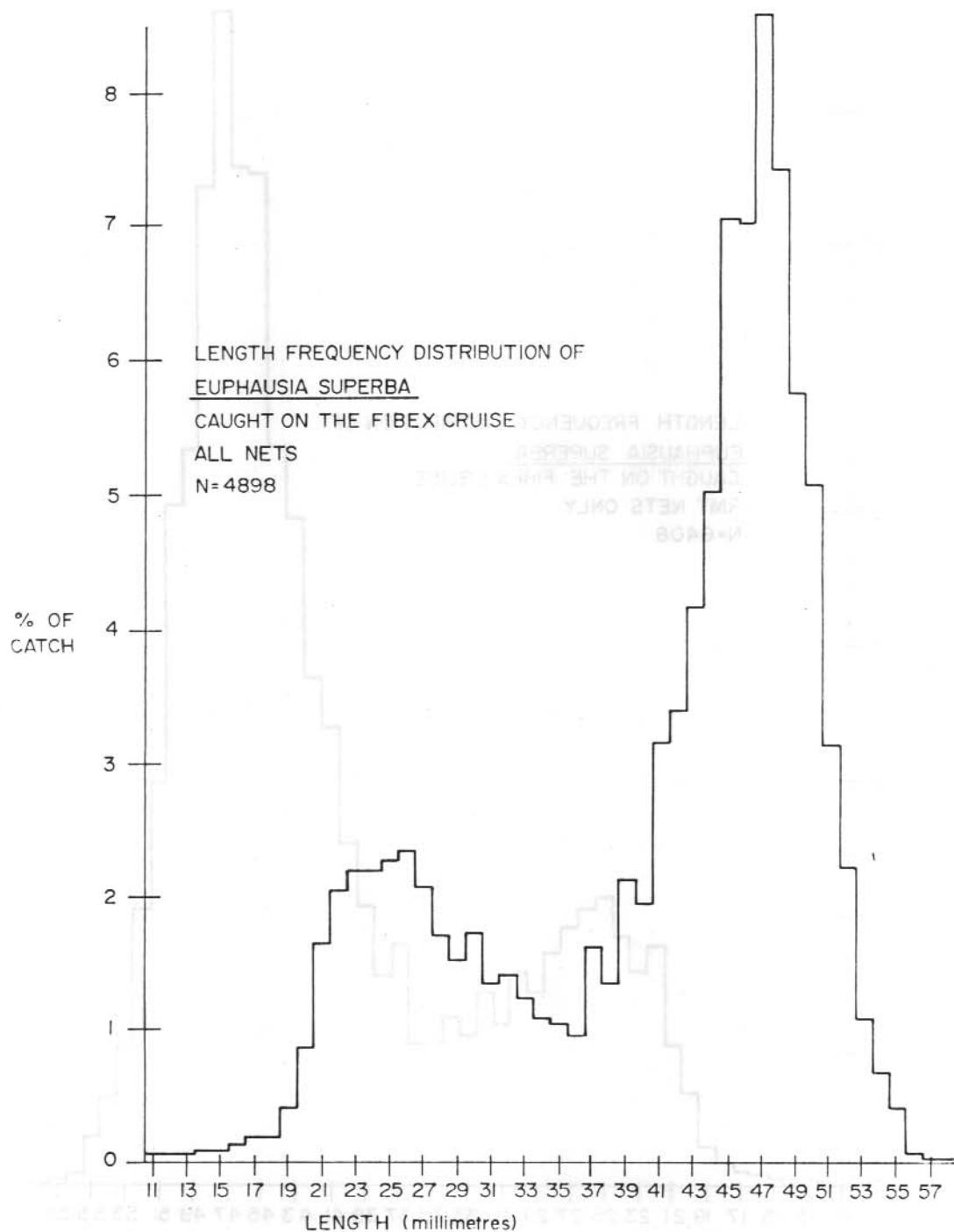


Figure 6. E. superba length frequency - all nets.

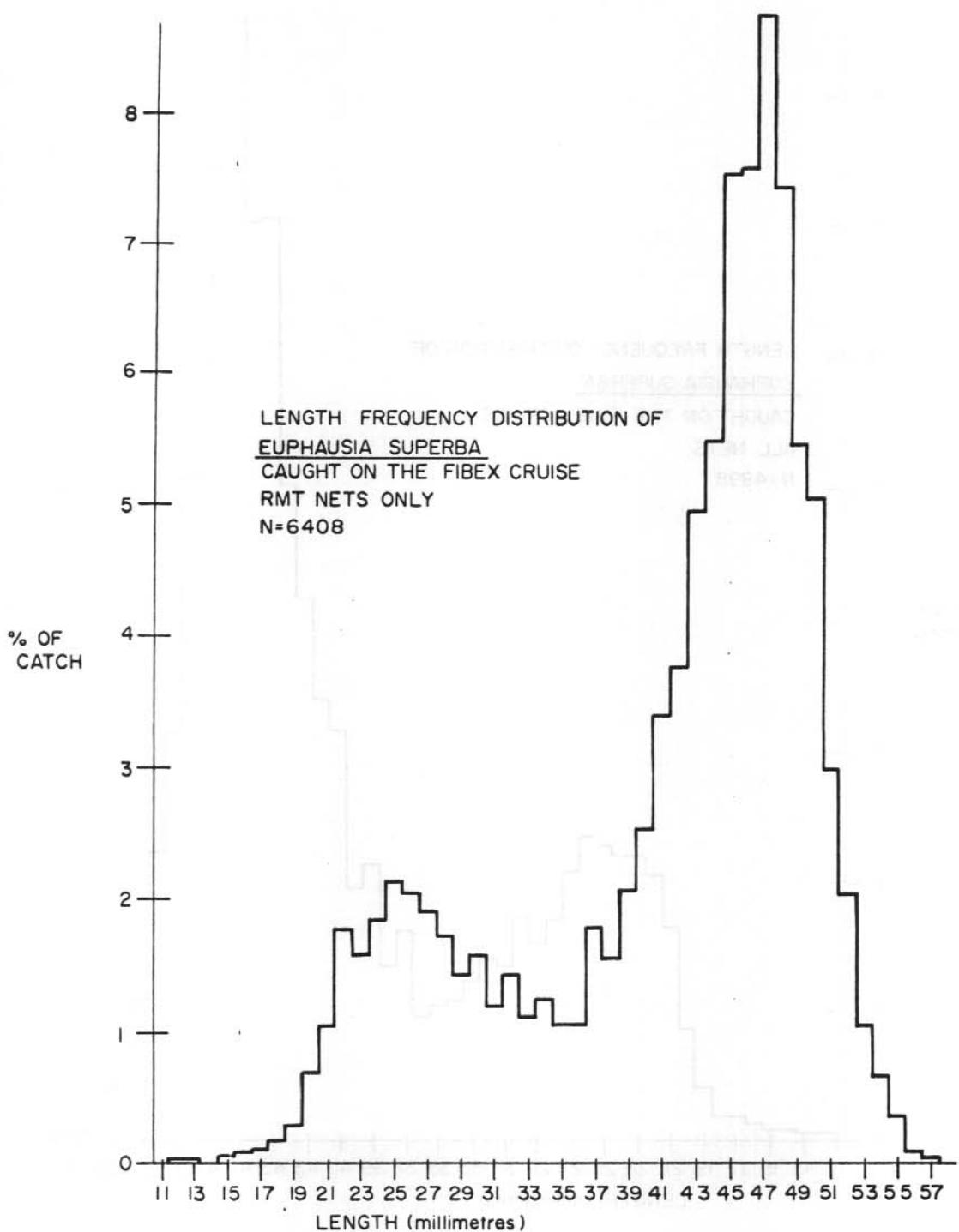


Figure 7. E. superba length frequency - RMT nets only.

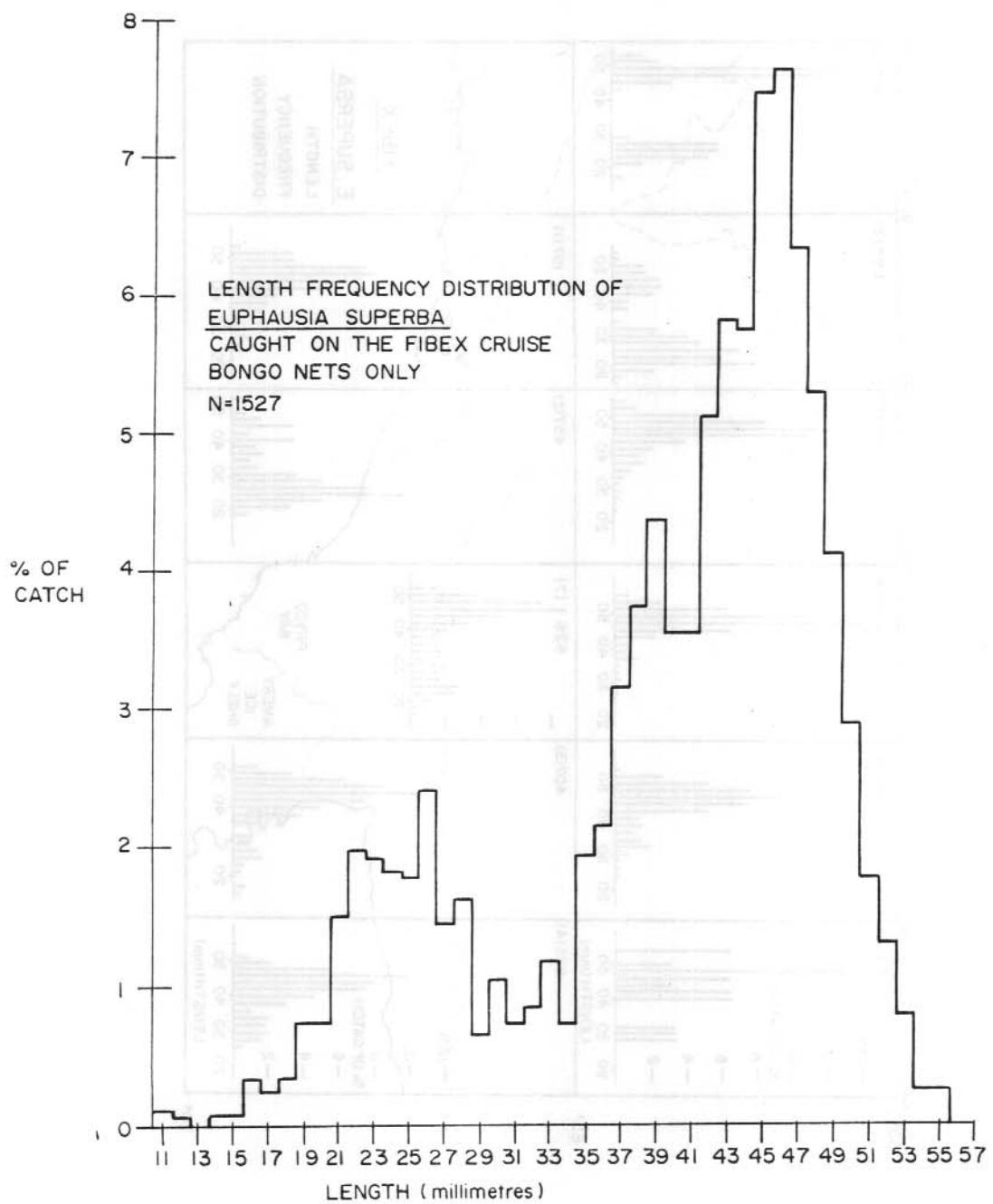


Figure 8. *E. superba* length frequency - Bongo nets only.

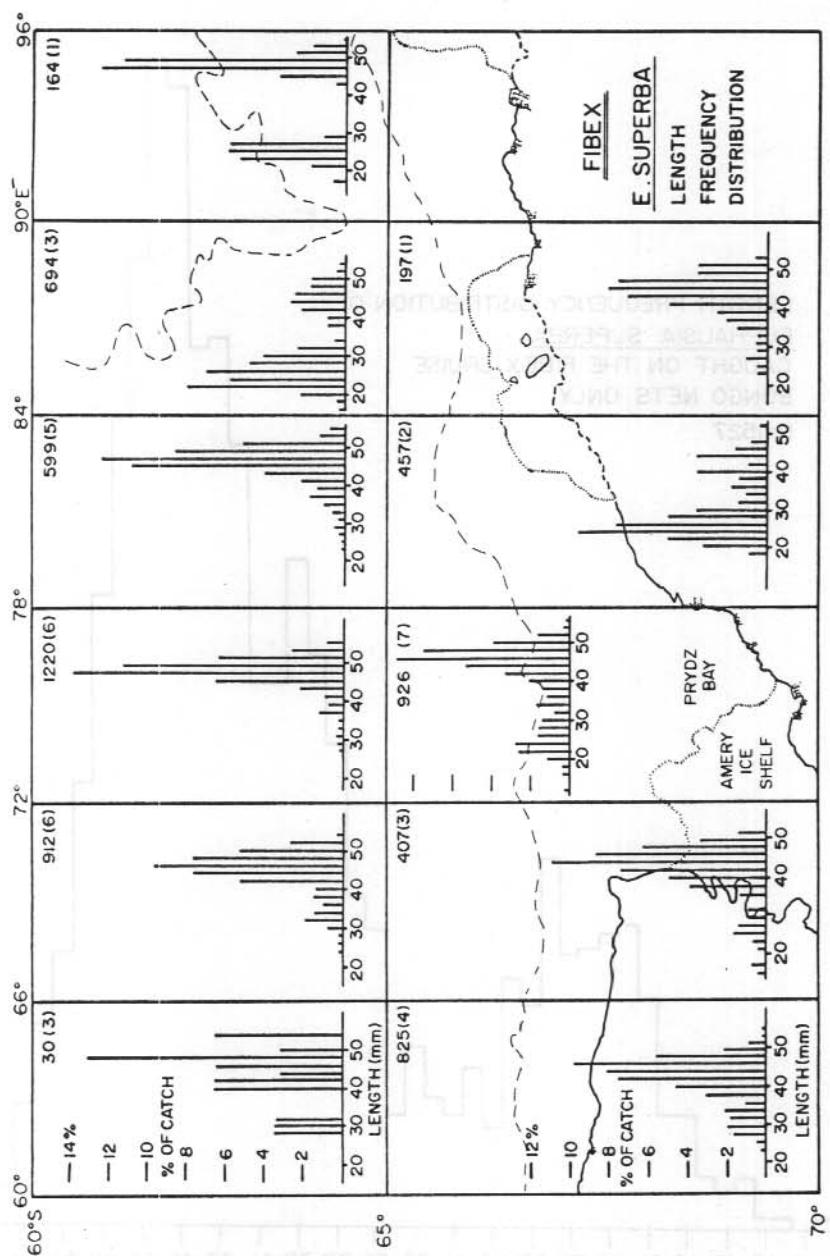


Figure 9. E. superba length frequency by geographic area - RMT samples only. 825(4) = 825 individuals from 4 hauls measured.

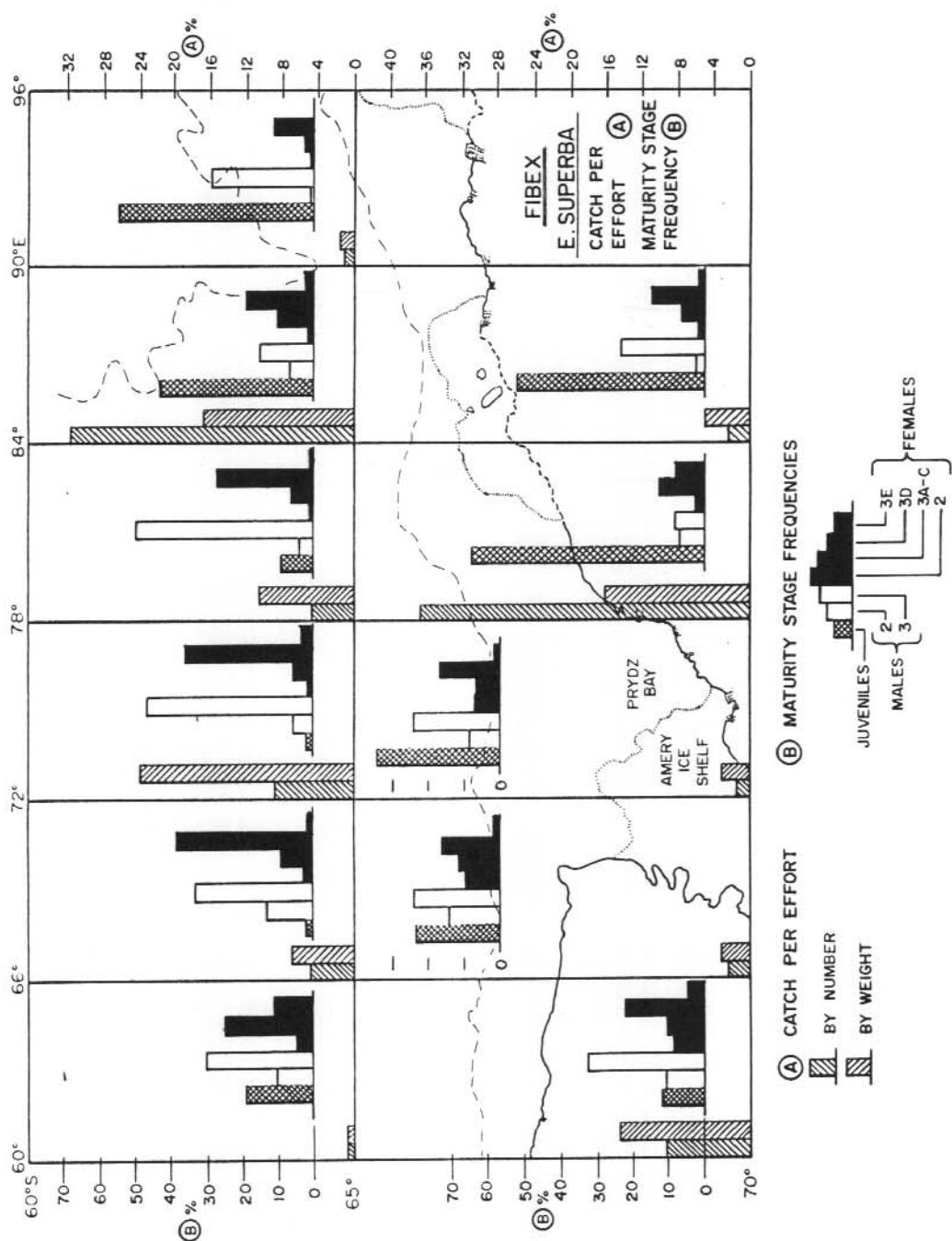


Figure 10. *E. superba* catch per effort, and maturity stage frequencies by geographic area - RMT samples only.

