

**Canadian Pacific Coast
Ichthyoplankton Survey. 1980.
Ichthyoplankton. Cruise Three
(March 12-20).**

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August 1981

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Canadian Data Report of Fisheries and Aquatic Sciences

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Rapport statistique canadien des sciences halieutiques et aquatiques

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Les numéros 1 à 25 de cette série ont été publiés à titre de Records statistiques, Service des pêches et de la mer. Les numéros 26-160 ont été publiés à titre de Rapports statistiques du Service des pêches et de la mer, Ministère des Pêches et de l'Environnement. Le nom de la série a été modifié à partir du numéro 161.

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CANADIAN PACIFIC COAST ICHTHYOPLANKTON SURVEY, 1980.
ICHTHYOPLANKTON. CRUISE THREE (MARCH 12-20).

by

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ABSTRACT

Mason, J. C., O. D. Kennedy, and A. C. Phillips. 1981. Canadian Pacific Coast Ichthyoplankton Survey, 1980. Ichthyoplankton. Cruise Three (March 12-20). Can. Data Rep. Fish. Aquat. Sci. 277: 75 p.

This report contains a compilation of corrected catches of juvenile fishes, fish eggs, and fish larvae by station, in reduced computer printout format, for the third of four standardized cruises. These cruises were eight to nine days in duration and were conducted on the G. B. REED.

The survey encompassed the entire length of the Canadian outer coast and also included Dixon Entrance, Hecate Strait, and Queen Charlotte Sound.

Oblique tows were made using 0.25^2 m Bongos equipped with $351 \mu\text{m}$ Nitex nets of modified SCOR design. All sampling gear was black to minimize potential avoidance and resulting catch bias. The tow procedure generally followed that established by CALCOFI, excepting that tows were made to within 20 m of the sea floor on the shelf and to a maximum depth of 565 m on the slope.

Key words: Ichthyoplankton, Canadian Pacific shelf, Dixon Entrance, Hecate Strait, Queen Charlotte Sound.

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RESUME'

Mason, J. C., O. D. Kennedy, and A. C. Phillips. 1981. Canadian Pacific Coast Ichthyoplankton Survey, 1980. Ichthyoplankton. Cruise Three (March 12-20). Can. Data Rep. Fish. Aquat. Sci. 277: 75 p.

Le présent rapport contient une compilation des prises corrigées de poissons juvéniles, d'oeufs et de larves de poisson par station, sous la forme d'un imprimé d'ordinateur réduit, pour la deuxième de quatre expéditions normalisées. Ces expéditions duraient de huit à neuf jours et étaient menées à partir du G. B. REED.

Les levé portaient sur toute la longueur de la côte canadienne la plus à l'ouest ainsi que sur l'entrée Dixon, le détroit d'Hécate et le bassin Reine-Charlotte.

Des chalutages obliques ont été effectués à l'aide d'engins d'échantillonnage de type bongo de 0,25 m² munis de filets Nitex de 351 µm de conception CRSO modifiée. Tout l'équipement d'échantillonnage était en noir pour minimiser l'évitage potentiel qui se traduit par un facteur d'inexactitude pour les prises. La méthode de chalutage était généralement semblable à celle établie pour le programme CALCOFI, sauf que le chalutage était effectué à moins de 20 m du fond sur le plateau et à une profondeur maximale de 565 m sur le talus.

Mots clés: Ichtyoplancton, plateau continental de Pacifique canadien, entrée Dixon, détroit d'Hécate, bassin Reine-Charlotte.

ORIENTATION AND METHODOLOGY

The Pacific Coast Ichthyoplankton Survey was conducted by staff of the Groundfish Program at the Pacific Biological Station, Nanaimo (Resource Services Branch). The survey involved four monthly cruises of some nine days duration each made on the G. B. REED (January 15-22, February 13-20, March 12-20, and April 15-23). The present report concerns the third cruise made in March, 1980.

The survey encompassed the entire length of the Canadian outer coast and also included Dixon Entrance, Hecate Strait, and Queen Charlotte Sound. A total of 77 stations on 18 transect lines were occupied routinely (Fig. 1). The stations are listed by number, location (latitude and longitude), and depth in Table 1.

On station, following oblique tows for ichthyoplankton, an STD cast (Bisset Berman) was made, supplemented irregularly by XBT casts, and by Nansen casts, with salinometry done ashore. The physical-chemical data base is presented in processed form in three parts (Data Reports Nos. 279, 280, and 281).

The oblique tows were made using 0.25 m² Bongos equipped with 351 µm Nitex nets of modified SCOR design, and General Oceanics center-mounted flow meters. A 100-kg minesweeper depressor was used on the January cruise but was replaced with a 95-kg cylindrical weight for the subsequent cruises in order to minimize stress on the gear and cable induced by the depressor while in the surface surge zone. All sampling gear was black to minimize potential avoidance and resulting catch bias.

The tow procedure generally followed that established by CALCOFI: vessel speed of 2 kts, gear descent at a cable pay-out rate of 50 m/min, and gear ascent at a cable recovery rate of 20 m/min. Tows were made to within 20 m of the sea floor on shelf stations, and to a maximum depth of 565 m on slope stations where bottom depths exceeded 900 m at the most seaward stations.

The recovered nets were thoroughly washed down with a high-pressure deck hose and the resulting catches were preserved in 5 percent buffered seawater formaldehyde for processing ashore. In the laboratory, fish, fish eggs and larvae, euphausiid decapods and other selected invertebrate groups were extracted from one-net catches. The entire catches from the other net were retained in a raw reference collection for future use.

The following data base consists of reduced computer print-out of corrected catches of juvenile fishes, fish eggs, and fish larvae, identified to the lowest possible systematic categories considering our present state of knowledge of Canadian Pacific coast ichthyoplankton, although some major taxa of fish larvae have since been ordered to the species level.

The tables are numbered consecutively through all four reports. This report contains Tables 148-224b. The "sample" numbers are the station numbers referred to in Table 1 and Fig. 1.

ACKNOWLEDGEMENTS

The assistance of Wolfgang Carolsfeld, Trudy Mullin, and other technical persons within the Groundfish Program in data collection and processing is gratefully acknowledged, as is the cooperation and support of the Marine Resources Branch (Provincial Ministry of Environment) in providing their salaries. The Master and crew of the G. B. REED are duly thanked for their enthusiastic and efficient support at sea. Lastly, we thank Skip McKinnell of the Computer Center (Pacific Biological Station, Nanaimo) for his efforts in data management.

TABLE 1. Tracklines and their associated stations, station locations, and station depths for the West Coast Ichthyoplankton Survey, January through April, 1980.

Trackline no.	Station no.	Latitude	Longitude to nearest min.	Station depth (m)
1	1	48° 30'	124° 23'	91
	2		124° 33'	182
	3		124° 52'	182
	4		125° 18'	182
	5		125° 43'	100
	6		126° 05'	182
	7		126° 24'	910
2	8	49° 00'	126° 56'	910
	9		126° 33'	182
	10		126° 14'	100
	11		126° 04'	55
3	12	49° 30'	126° 44'	55
	13		126° 54'	100
	14		127° 14'	182
	15		127° 34'	910
4	16	50° 00'	127° 59'	910
	17		127° 52'	100
	18		127° 43'	182
	19		127° 35'	55
5	20	50° 30'	128° 14'	55
	21		128° 19'	100
	22		128° 26'	182
	23		128° 40'	910
6	24	51° 00'	129° 48'	910
	25		129° 21'	182
	26		128° 56'	76
	27		128° 31'	100
	28		128° 06'	100
7	29	51° 30'	128° 31'	164
	30		128° 56'	100
	31		129° 21'	100
	32		129° 51'	182
	33		130° 24'	910

TABLE 1 (contd) .

Trackline no.	Station no.	Latitude	Longitude to nearest min.	Station depth (m)
8	34	52° 00'	131° 09'	100
	35		131° 12'	182
	36		131° 23'	910
9	37	52° 30'	131° 56'	910
	38		131° 47'	182
10	39	53° 00'	132° 26'	182
	40		132° 40'	910
	41		132° 53'	910
11	42	53° 20'	133° 19'	910
	43b		133° 09'	637
	43a		133° 05'	218
	43		133° 01'	182
	44		132° 57'	100
12	45	54° 00'	133° 13'	55
	46		133° 27'	64
	47		133° 31'	182
	48		133° 48'	910
13	49	54° 30'	134° 06'	910
	50		133° 49'	182
	51		133° 22'	364
	52		132° 55'	365
	53		132° 27'	364
	54		132° 00'	246
	55		131° 34'	282
	56		131° 07'	146
14	57	54° 00'	131° 25'	18
	58		131° 08'	55
	59		130° 50'	100
15	60	53° 30'	130° 42'	100
	61		131° 05'	55
	62		131° 02'	22
16	63	53° 00'	131° 06'	55
	64		130° 40'	100
	65		130° 13'	228
	66		129° 47'	55
17	67	52° 30'	129° 48'	182
	68		130° 13'	273
	69		130° 40'	100
	70		131° 07'	55

TABLE 1 (contd).

Trackline no.	Station no.	Latitude	Longitude to nearest min.	Station depth (m)
18	71	52° 00'	130° 41'	228
	72		130° 14'	100
	73		129° 48'	100
	74		129° 21'	182
	75		128° 56'	100

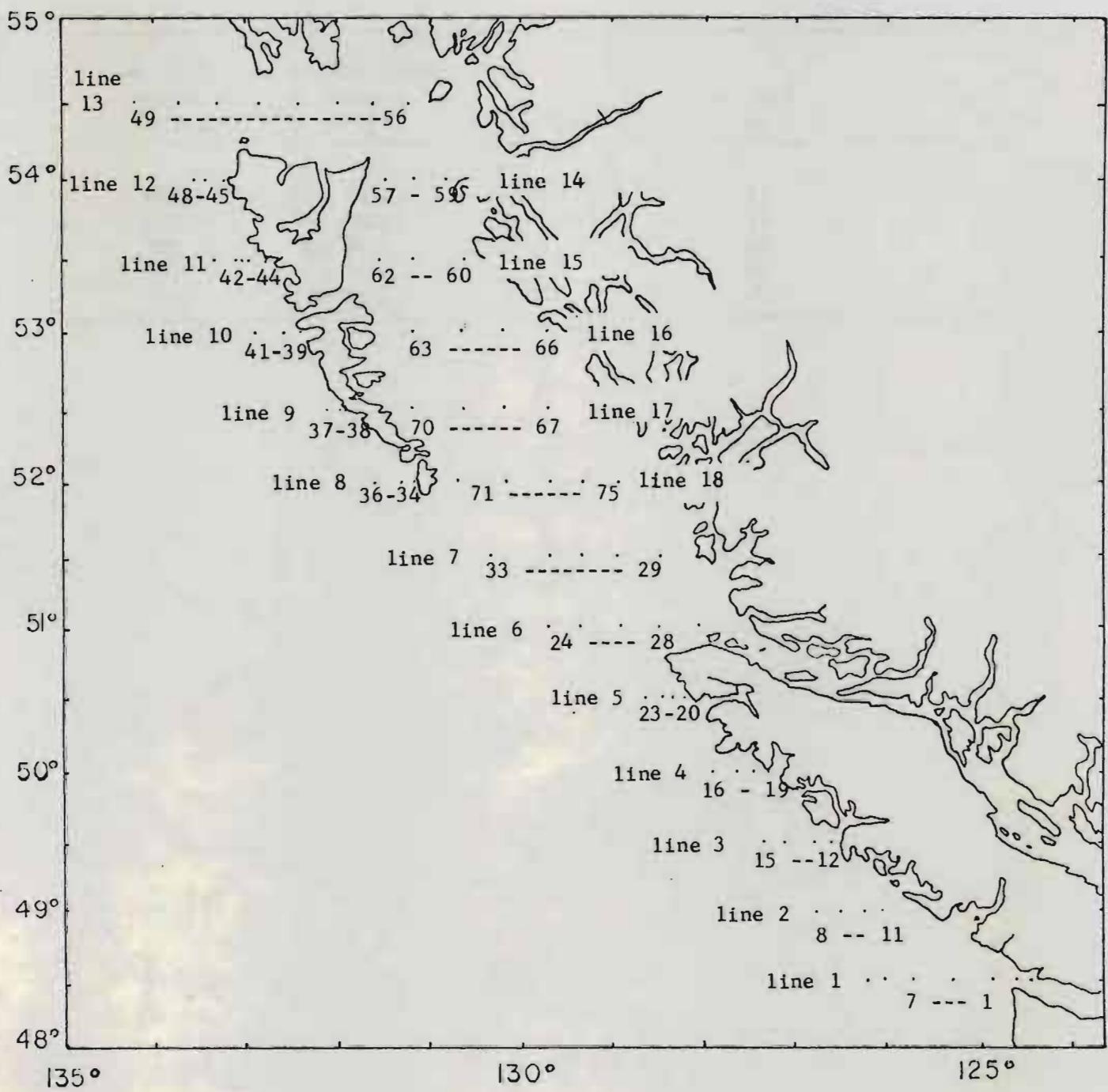


FIGURE 1. Tracklines and associated stations in numbered sampling sequence for the West Coast Ichthyoplankton Survey, January through April, 1980.

TABLE: 148
 CRUISE: WC 80-3
 SAMPLE NO.: 1
 DATE: 12/3/80
 VESSEL: G.R. REED
 POSITION: 48 30.0 N 124 23.0 W
 GRID POSITION:
 BOTTOM DEPTH: 82 M

WIND DIRECTION:	70 DEG	TOW SPEED:	1 MPS
WIND VELOCITY:	2 MPS	TYPE OF TOW:	OBLIQUE
WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M ²
SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
SURFACE TEMP:	7.6 C	VOL. FILTERED:	166 M ³
STD NUMBER:	1	DISP. VOLUME:	
BT/XBT NUMBER:		PLANKTON CONC.:	
TIME OF TOW:	0210 HR	ALIQUOT:	
DEPTH OF TOW:	74 M	S.H.F.:	4.45

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	4.	80.0	24.1	17.8
THERAGRA CHALCOGRAMMA	1.	20.0	6.0	4.4
TOTAL	5.	100.0	30.1	22.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	8.	32.0	48.2	35.6
THALEICHTHYS PACIFICUS	4.	16.0	24.1	17.8
THERAGRA CHALCOGRAMMA	1.	4.0	6.0	4.4
AMMODYTES HEXAPTERUS	4.	16.0	24.1	17.8
SCORPAENIDAE (FAMILY)	1.	4.0	6.0	4.4
HEXAGRAMMIIDAE (FAMILY)	1.	4.0	6.0	4.4
PLEURONECTIDAE (FAMILY)	6.	24.0	36.1	26.7
TOTAL	25.	100.0	150.6	111.3

TABLE: 149
 CRUISE: NC 80-3
 SAMPLE NO.: 2
 DATE: 12/3/80
 VESSEL: G.B. REED
 POSITION: 48 30.0 N 124 33.0 W
 GRID POSITION:
 BOTTOM DEPTH: 199 M

WIND DIRECTION: 100 DEG
 WIND VELOCITY: 4 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.1 C
 STD NUMBER: 2
 RT/XBT NUMBER:
 TIME OF TOW: 0320 HR
 DEPTH OF TOW: 146 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 333 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 4.37

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	11.	47.8	33.0	48.1
THERAGRA CHALCOGRAMMA	12.	52.2	36.0	52.4
TOTAL	23.	100.0	69.1	100.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	2.	4.8	6.0	8.7
CLUPEA HARENGUS PALLASI	24.	57.1	72.1	104.9
MICROGADUS PROXIMUS	1.	2.4	3.0	4.4
THERAGRA CHALCOGRAMMA	1.	2.4	3.0	4.4
SCORPAENIDAE (FAMILY)	5.	11.9	15.0	21.9
PLEURONECTIDAE (FAMILY)	9.	21.4	27.0	39.3
TOTAL	42.	100.0	126.1	183.5

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
LYCONECTES ALEUTENSIS	1.	33.3	3.0	4.4
AMMODYTES HEXAPTERUS	2.	66.7	6.0	8.7
TOTAL	3.	100.0	9.0	13.1

TABLE: 150
 CRUISE: NC 80- 3
 SAMPLE NO.: 3
 DATE: 12/ 3/80
 VESSEL: G.R. REED
 POSITION: 48 30.0 N 124 52.0 W
 GRID POSITION:
 BOTTOM DEPTH: 139 M

WIND DIRECTION: 320 DEG
 WIND VELOCITY: 7 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.5 C
 STD NUMBER: 3
 BT/XBT NUMBER:
 TIME OF TOW: 0524 HR
 DEPTH OF TOW: 92 M

TOW SPEED: 1 MPH
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: HONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 234 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 3.93

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	5.	35.7	21.4	19.6
THERAGRA CHALCOGRAMMA	9.	64.3	38.5	35.4
TOTAL	14.	100.0	59.8	55.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	3.	13.0	12.8	11.8
CLUPEA HARENGUS PALLASI	1.	4.3	4.3	3.9
MERLUCCIUS PRODUCTUS	2.	8.7	8.5	7.9
SCURPAENIDAE(FAMILY)	13.	56.5	55.6	51.1
OPHIODON ELONGATUS	2.	8.7	8.5	7.9
PLEURONECTIDAE(FAMILY)	2.	8.7	8.5	7.9
TOTAL	23.	100.0	98.3	90.4

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	1.	50.0	4.3	3.9
OPHIODON ELONGATUS	1.	50.0	4.3	3.9
TOTAL	2.	100.0	8.5	7.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CITHARICHTHYS SORDIDUS	1.	100.0	4.3	3.9
TOTAL	1.	100.0	4.3	3.9

TABLE: 151
 CRUISE: WC 80-3
 SAMPLE NO.: 4
 DATE: 12/3/80
 VESSEL: G.B. REED
 POSITION: 48 30.0 N 125 18.0 W
 GRID POSITION:
 BOTTOM DEPTH: 146 M

WIND DIRECTION: 300 DEG
 WIND VELOCITY:
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 8.2 C
 STD NUMBER: 4
 BT/XBT NUMBER:
 TIME OF TOW: 0745 HR
 DEPTH OF TOW: 132 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 257 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.12

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	7.	41.2	27.2	35.8
THERAGRA CHALCOGRAMMA	10.	58.8	38.9	51.2

TOTAL	17.	100.0	66.1	87.0
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
THERAGRA CHALCOGRAMMA	2.	11.1	7.8	10.2
AMMODYTIDAE (FAMILY)	1.	5.6	3.9	5.1
SCURPAENIDAE (FAMILY)	13.	72.2	50.6	66.6
COTTIDAE (FAMILY)	1.	5.6	3.9	5.1
PLEURONECTIDAE (FAMILY)	1.	5.6	3.9	5.1

TOTAL	18.	100.0	70.0	92.2
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
STICHAEIIDAE (FAMILY)	1.	33.3	3.9	5.1
HEXAGRAMMIDAE (FAMILY)	2.	66.7	7.8	10.2

TOTAL	3.	100.0	11.7	15.4
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TABLE: 152
 CRUISE: WC 80- 3
 SAMPLE NO.: 5
 DATE: 12/ 3/80
 VESSEL: G.B. REED
 POSITION: 48 30.0 N 125 43.0 W
 GRID POSITION:
 BOTTOM DEPTH: 95 M

WIND DIRECTION: 150 DEG
 WIND VELOCITY: 7 MPS
 WAVE HEIGHT:
 SWELL HEIGHT:
 SURFACE TEMP: 8.5 C
 STD NUMBER: 5
 RT/XBT NUMBER:
 TIME OF TOW: 0945 HR
 DEPTH OF TOW: 77 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 120 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.M.F.: 6.41

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
PISCES	7.	100.0	58.3	44.9

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
	7.	100.0	58.3	44.9

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
PISCES	2.	10.0	16.7	12.8
AMMUDYTES HEXAPTERUS	14.	70.0	116.7	89.7
SCURPAENIDAE(FAMILY)	3.	15.0	25.0	19.2
CYCLOPTERIDAE(FAMILY)	1.	5.0	8.3	6.4

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
	20.	100.0	166.7	128.2

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
STICHAEIDAE(FAMILY)	1.	33.3	8.3	6.4
OPHIODON ELONGATUS	1.	33.3	8.3	6.4
COTTIIDAE(FAMILY)	1.	33.3	8.3	6.4

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
	3.	100.0	25.0	19.2

TABLE: 153
 CRUISE: NC 80- 3
 SAMPLE NO.: 6
 DATE: 12/ 3/80
 VESSEL: G.B. REED
 POSITION: 48 30.0 N 126 5.0 W
 GRID POSITION:
 BOTTOM DEPTH: 183 M

WIND DIRECTION: 140 DEG
 WIND VELOCITY: 15 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 9.1 C
 STD NUMBER: 6
 BT/XBT NUMBER:
 TIME OF TOW: 1130 HR
 DEPTH OF TOW: 175 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: HONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 220 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 7.96

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	4.	100.0	18.2	31.8

TOTAL				
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
LYCONECTES ALEUTENSIS	1.	50.0	4.5	8.0
OPHIODON ELONGATUS	1.	50.0	4.5	8.0

TOTAL				
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TABLE: 154
 CRUISE: WC 80- 3
 SAMPLE NO.: 7
 DATE: 12/ 3/80
 VESSEL: G.B. PEED
 POSITION: 48 30.0 N 126 24.0 W
 GRID POSITION:
 BOTTOM DEPTH: 1097 M

WIND DIRECTION: 150 DEG
 WIND VELOCITY: 20 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 4 M
 SURFACE TEMP: 7.4 C
 STD NUMBERS:
 RT/XBT NUMBERS:
 TIME OF TOW: 1317 HR
 DEPTH OF TOW: 476 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 694 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.85

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	4.	100.0	5.8	27.4
TOTAL	4.	100.0	5.8	27.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
SCORPAENIDAE(FAMILY)	9.	100.0	13.0	61.6
TOTAL	9.	100.0	13.0	61.6

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE(FAMILY)	2.	100.0	2.9	13.7
TOTAL	2.	100.0	2.9	13.7

TABLE: 155
 CRUISE: WC 80- 3
 SAMPLE NO.: 8
 DATE: 12/ 3/80
 VESSEL: G.B. REED
 POSITION: 49 0.0 N 126 56.0 W
 GRID POSITION:
 BOTTOM DEPTH: 548 M

WIND DIRECTION: 140 DEG
 WIND VELOCITY: 12 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 3 M
 SURFACE TEMP: 9.6 C
 STD NUMBER:
 BT/XBT NUMBER:
 TIME OF TOW: 1840 HR
 DEPTH OF TOW: 564 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 747 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 7.55

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	7.	100.0	9.4	52.8
TOTAL	7.	100.0	9.4	52.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
SCORPAENIDAE(FAMILY)	2.	100.0	2.7	15.1
TOTAL	2.	100.0	2.7	15.1

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE(FAMILY)	1.	100.0	1.3	7.5
TOTAL	1.	100.0	1.3	7.5

TABLE: 156
 CRUISE: WC 80-3
 SAMPLE NO.: 9
 DATE: 12/3/80
 VESSEL: G.B. REED
 POSITION: 49° 0.0' N 126° 33.0' W
 GRID POSITION:
 BOTTOM DEPTH: 156 M

WIND DIRECTION: 160 DEG
 WIND VELOCITY: 15 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 2 M
 SURFACE TEMP: 9.5 C
 STD NUMBER: 7
 BT/XBT NUMBER:
 TIME OF TOW: 2120 HR
 DEPTH OF TOW: 136 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: HONGU .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 263 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.17

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	30.	100.0	114.1	155.1
TOTAL	30.	100.0	114.1	155.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	1.	9.1	3.8	5.2
SCURPAENIDAE (FAMILY)	8.	72.7	30.4	41.4
COTTIDAE (FAMILY)	2.	18.2	7.6	10.3
TOTAL	11.	100.0	41.8	56.9

TABLE: 157
 CRUISE: WC 80- 3
 SAMPLE NO.: 10
 DATE: 12/ 3/80
 VESSEL: G.B. REED
 POSITION: 49 0.0 N 126 14.0 W
 GRID POSITION:
 BOTTOM DEPTH: 91 M

WIND DIRECTION:	200 DEG	TOW SPEED:	1 MPS
WIND VELOCITY:	15 MPS	TYPE OF TOW:	OBLIQUE
WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M ²
SWELL HEIGHT:	2 M	MESH SIZE:	.351 MM
SURFACE TEMP:	9.6 C	VOL. FILTERED:	157 M ³
STD NUMBER:		DISP. VOLUME:	
BT/XHT NUMBER:		PLANKTON CONC.:	
TIME OF TOW:	HR	ALIQUOT:	
DEPTH OF TOW:	77 M	S.H.F.:	4.94

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	3.	100.0	19.1	14.8

TOTAL	3.	100.0	19.1	14.8
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
AMMODYTES HEXAPTERUS	49.	98.0	312.1	242.1
COTTIDAE(FAMILY)	1.	2.0	6.0	4.9

TOTAL	50.	100.0	318.5	247.0
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PLEURONECTIDAE(FAMILY)	1.	100.0	6.4	4.9

TOTAL	1.	100.0	6.4	4.9
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TABLE: 158
 CRUISE: NC 80- 3
 SAMPLE NO.: 11
 DATE: 13/ 3/80
 VESSEL: G.B. REED
 POSITION: 49° 0.0 N 126° 4.0 W
 GRID POSITION:
 BOTTOM DEPTH: 55 M

WIND DIRECTION: 220 DEG
 WIND VELOCITY: 17 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 4 M
 SURFACE TEMP: 8.2 C
 STD NUMBER:
 RT/XBT NUMBER:
 TIME OF TOW: 0030 HR
 DEPTH OF TOW: 42 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 280 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 1.49

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	9.	18.0	32.1	13.4
MERLUCCIUS PRODUCTUS	3.	6.0	10.7	4.5
THERAGRA CHALCOGRAMMA	38.	76.0	135.7	56.6
TOTAL	50.	100.0	178.6	74.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	2.	5.1	7.1	3.0
CLUPEA HARENGUS PALLASI	5.	12.8	17.9	7.4
MICROGADUS PROXIMUS	6.	15.4	21.4	8.9
THERAGRA CHALCOGRAMMA	6.	15.4	21.4	8.9
STICHAEIDAE(FAMILY)	1.	2.6	3.6	1.5
AMMODYTES HEXAPTERUS	17.	43.6	60.7	25.3
PLEURONECTIDAE(FAMILY)	2.	5.1	7.1	3.0
TOTAL	39.	100.0	139.3	58.1

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
HEXAGRAMMIIDAE(FAMILY)	1.	100.0	3.6	1.5
TOTAL	1.	100.0	3.6	1.5

TABLE: 159
 CRUISE: NC 80-3
 SAMPLE NO.: 12
 DATE: 13/ 3/80
 VESSEL: G.B. REED
 POSITION: 49 30.0 N 126 44.0 W
 GRID POSITION:
 BOTTOM DEPTH: 46 M

WIND DIRECTION: 300 DEG
 WIND VELOCITY: 12 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 8.0 C
 STD NUMBER:
 BT/XBT NUMBER:
 TIME OF TOW: 0525 HR
 DEPTH OF TOW: 34 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: HONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 153 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 2.22

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	6.	33.3	39.2	13.3
<i>THERAGRA CHALCOGRAMMA</i>	12.	66.7	78.4	26.6
TOTAL	18.	100.0	117.6	40.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	5.	7.1	32.7	11.1
<i>MICROGADUS PROXIMUS</i>	8.	11.4	52.3	17.8
<i>AMMODYTES HEXAPTERUS</i>	54.	77.1	352.9	119.9
<i>SCURPAENIDAE (FAMILY)</i>	3.	4.3	19.6	6.7
TOTAL	79.	100.0	457.5	155.4

TABLE: 160
 CRUISE #: WC 80-3
 SAMPLE NO.: 13
 DATE: 13/3/80
 Vessel: G.B. REED
 POSITION: 49 30.0 N 126 54.0 W
 GRID POSITION:
 BOTTOM DEPTH: 101 M

WIND DIRECTION: 300 DEG
 WIND VELOCITY: 15 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 8.5 C
 STD NUMBER: 8
 BT/XBT NUMBER:
 TIME OF TOW: 0630 HR
 DEPTH OF TOW: 78 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 149 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.24

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	3.	20.0	20.1	15.7
THERAGRA CHALCUGRAMMA	12.	80.0	80.5	62.9
TOTAL	15.	100.0	100.7	78.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	5.	7.2	33.6	26.2
GADIDAE(FAMILY)	1.	1.4	6.7	5.2
MICRUGADUS PROXIMUS	2.	2.9	13.4	10.5
THERAGRA CHALCUGRAMMA	3.	4.3	20.1	15.7
AMMODYTES HEXAPTERUS	7.	10.1	47.0	36.7
SCORPAENIDAE(FAMILY)	13.	18.8	87.2	68.1
COTTIDAE(FAMILY)	8.	11.6	53.7	41.9
CYCLOPTERIDAE(FAMILY)	12.	17.4	80.5	62.9
PLEURONECTIPAE(FAMILY)	18.	26.1	120.8	94.3
TOTAL	69.	100.0	463.1	361.6

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
HEXAGRAMMIDAE(FAMILY)	1.	16.7	6.7	5.2
COTTIDAE(FAMILY)	5.	83.3	33.6	26.2
TOTAL	6.	100.0	40.3	31.4

TABLE: 161
 CRUISE: WC 80-3
 SAMPLE NO.: 14
 DATE: 13/ 3/80
 VESSEL: G.B. REED
 POSITION: 49 30.0 N 127 14.0 W
 GRID POSITION:
 BOTTOM DEPTH: 174 M

WIND DIRECTION: 270 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 9.1 C
 STD NUMBER: 9
 BT/XBT NUMAER:
 TIME OF TOW: 0840 HR
 DEPTH OF TOW: 145 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 269 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT: 9.M.F.: 5.39

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	13.	100.0	48.3	70.1

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
SCORPAENIDAE(FAMILY)	34.	94.4	126.4	183.3
HEXAGRAMMIDAE(FAMILY)	1.	2.8	3.7	5.4
PLEURONECTIDAE(FAMILY)	1.	2.8	3.7	5.4
TOTAL	36.	100.0	133.8	194.0

TABLE: 162
 CRUISE: NC 80-3
 SAMPLE NO.: 15
 DATE: 13/ 3/80
 VESSEL: G.B. REED
 POSITION: 49 30.0 N 127 34.0 W
 GRID POSITION:
 BOTTOM DEPTH: 1280 M

WIND DIRECTION: 270 DEG
 WIND VELOCITY: 15 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 9.0 C
 STD NUMBER: 10
 BT/XBT NUMBER:
 TIME OF TOW: 1020 HR
 DEPTH OF TOW: 480 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 677 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 7.09

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
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PISCES		18.2	3.0	14.2
ANOPLOPODAMA FIMBRIA	2. 9.	81.8	13.3	63.8

TOTAL	11.	100.0	16.2	78.0
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
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SCORPAENIDAE(FAMILY)	4.	100.0	5.9	28.4
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TOTAL	4.	100.0	5.9	28.4
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
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MYCTOPHIDAE(FAMILY)	1.	50.0	1.5	7.1
CITHARICHTHYS SORDIDUS	1.	50.0	1.5	7.1

TOTAL	2.	100.0	3.0	14.2
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JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
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CHAULIODONTIDAE(FAMILY)	2.	50.0	3.0	14.2
MYCTOPHIDAE(FAMILY)	2.	50.0	3.0	14.2

TOTAL	4.	100.0	5.9	28.4
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TABLE: 163
 CRUISE: WL 80-3
 SAMPLE NO.: 19
 DATE: 13/3/80
 VESSEL: G.B. REED
 POSITION: 50° 0.0' N 127° 35.0' W
 GRID POSITION:
 BOTTOM DEPTH: 62 M

WIND DIRECTION: 245 DEG
 WIND VELOCITY: 12 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 2 M
 SURFACE TEMP: 7.8 C
 STD NUMBER: 11
 BT/XBT NUMBER:
 TIME OF TOW: 1400 HR
 DEPTH OF TOW: 51 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 252 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 2.01

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	4.	30.8	15.9	8.0
THERAGRA CHALCOGRAMMA	9.	69.2	35.7	18.1
TOTAL	13.	100.0	51.6	26.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
MICROGADUS PROXIMUS	1.	1.2	4.0	2.0
THERAGRA CHALCOGRAMMA	1.	1.2	4.0	2.0
AMMODYTES HEXAPTERUS	1.	1.2	4.0	2.0
SCORPAENIDAE (FAMILY)	59.	71.1	234.1	118.6
COTTIDAE (FAMILY)	7.	8.4	27.8	14.1
CYCLOPTERIDAE (FAMILY)	5.	6.0	19.8	10.0
PLEURONECTIDAE (FAMILY)	9.	10.8	35.7	18.1
TOTAL	83.	100.0	329.4	166.8

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
THERAGRA CHALCOGRAMMA	1.	50.0	4.0	2.0
OPHIODON ELONGATUS	1.	50.0	4.0	2.0
TOTAL	2.	100.0	7.9	4.0

TABLE: 164
 CRUISE: NC 80- 3
 SAMPLE NO.: 18
 DATE: 13/ 3/80
 VESSEL: G.B. REED
 POSITION: 50 0.0 N 127 40.0 W
 GRID POSITION:
 BOTTOM DEPTH: 86 M

WIND DIRECTION: 250 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 2 M
 SURFACE TEMP: 8.5 C
 STD NUMBER: 12
 BT/XBT NUMBER:
 TIME OF TOW: 1454 HR
 DEPTH OF TOW: 65 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 210 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 3.09

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	1.	100.0	4.8	3.1
TOTAL	1.	100.0	4.8	3.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	3.	60.0	14.3	9.3
AGONIDAE(FAMILY)	1.	20.0	4.8	3.1
PLEURONECTIDAE(FAMILY)	1.	20.0	4.8	3.1
TOTAL	5.	100.0	23.8	15.4

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
STICHAEIDAE(FAMILY)	2.	40.0	9.5	6.2
AMMODYTES HEXAPTERUS	2.	40.0	9.5	6.2
CYCLOPTERIDAE(FAMILY)	1.	20.0	4.8	3.1
TOTAL	5.	100.0	23.8	15.4

TABLE: 165
 CRUISE: WC 80- 3
 SAMPLE NO.: 17
 DATE: 13/ 3/80
 VESSEL: G.R. REED
 POSITION: 50 0.0 N 127 45.6 W
 GRID POSITION:
 BOTTOM DEPTH: 274 M

WIND DIRECTION: 280 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 2 M
 SURFACE TEMP: 8.6 C
 STD NUMBER: 13
 BT/XBT NUMBER:
 TIME OF TOW: 1543 HR
 DEPTH OF TOW: 233 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGU .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 590 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 3.94

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
STICHAEIDAE(FAMILY)	1.	5.6	1.7	3.9
LYCONECTES ALEUTENSIS	2.	11.1	3.4	7.9
OPHIODON ELONGATUS	12.	66.7	20.3	47.3
COTTIDAE(FAMILY)	3.	16.7	5.1	11.8
TOTAL	18.	100.0	30.5	70.9

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	1.	100.0	1.7	3.9
TOTAL	1.	100.0	1.7	3.9

TABLE: 166
 CRUISE: WC 80- 3
 SAMPLE NO.: 16
 DATE: 13/ 3/80
 VESSEL: G.B. REED
 POSITION: 50 0.0 N 127 52.0 W
 GRID POSITION:
 BOTTOM DEPTH: 732 M

WIND DIRECTION: 245 DEG
 WIND VELOCITY: 9 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.7 C
 STD NUMBER: 14
 BT/XBT NUMBER:
 TIME OF TOW: 1705 HR
 DEPTH OF TOW: 465 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 839 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.54

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES ANOPLOPOMA FIMBRIA	1. 10.	9.1 90.9	1.2 11.9	5.5 55.4

TOTAL	11.	100.0	13.1	60.9
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES LEUROGLOSSUS STILBIUS SCORPAENIDAE(FAMILY) ANOPLOPOMA FIMBRIA OPHIODON ELONGATUS COTTIDAE(FAMILY)	5. 1. 21. 1. 3. 9.	12.5 2.5 52.5 2.5 7.5 22.5	6.0 1.2 25.0 1.2 3.6 10.7	27.7 5.5 116.3 5.5 16.6 49.9

TOTAL	40.	100.0	47.7	221.6
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JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE(FAMILY)	3.	100.0	3.6	16.6

TOTAL	3.	100.0	3.6	16.6
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TABLE: 167
 CRUISE: NC 80- 3
 SAMPLE NO.: 20
 DATE: 13/ 3/80
 VESSEL: G.R. REED
 POSITION: 50 30.0 N 128 14.0 W
 GRID POSITION:
 BOTTOM DEPTH: 40 M

WIND DIRECTION: 330 DEG
 WIND VELOCITY: 1 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 7.9 C
 STD NUMBER:
 HT/XBT NUMBER:
 TIME OF TOW: 2116 HR
 DEPTH OF TOW: 26 M

TOW SPEED: 1 MPS
 TYPE OF TOW: ORLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 153 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 1.70

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	3.	21.4	19.6	
<i>THERAGRA CHALCOGRAMMA</i>	11.	78.6	71.9	5.1
TOTAL	14.	100.0	91.5	18.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	2.	28.6	13.1	3.4
<i>MICRUGADUS PROXIMUS</i>	1.	14.3	6.5	1.7
<i>AMMODYTES HEXAPTERUS</i>	1.	14.3	6.5	1.7
<i>SCORPAENIDAE(FAMILY)</i>	3.	42.9	19.6	5.1
TOTAL	7.	100.0	45.8	11.9

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
<i>AMMODYTES HEXAPTERUS</i>	1.	25.0	6.5	1.7
<i>HEXAGRAMMIDAE(FAMILY)</i>	2.	50.0	13.1	3.4
<i>OPHIODON ELONGATUS</i>	1.	25.0	6.5	1.7
TOTAL	4.	100.0	26.1	6.8

TABLE: 16A
 CRUISE: NC 80-3
 SAMPLE NO.: 21
 DATE: 13/ 3/80
 Vessel: G.R. REED
 POSITION: 50 30.0 N 128 19.0 W
 GRID POSITION:
 BOTTOM DEPTH: 124 M

	WIND DIRECTION:	TOW SPEED:
	WIND VELOCITY:	TYPE OF TOW:
	WAVE HEIGHT:	GEAR TYPE:
	SWELL HEIGHT:	MESH SIZE:
	SURFACE TEMP:	.351 MM
	STD NUMBER:	VOL. FILTERED:
	BT/XBT NUMBER:	DISP. VOLUME:
	TIME OF TOW:	PLANKTON CONC.:
	DEPTH OF TOW:	ALIQUOT:
		S.H.F.:
	0 M	1 MPS
	0 M	OBLIQUE
	7.4 C	BUNGO .25 M2
	15	
	2147 HR	
	88 M	
		4.07

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	4.	57.1	18.5	16.3
MERLUCCIUS PRODUCTUS	1.	14.3	4.6	4.1
THERAGRA CHALCOGRAMMA	2.	28.6	9.3	8.1
TOTAL	7.	100.0	32.4	28.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
LYCONECTES ALEUTENSIS	1.	20.0	4.6	4.1
AMMODYTES HEXAPTERUS	2.	40.0	9.3	8.1
SCORPAENIDAE(FAMILY)	1.	20.0	4.6	4.1
COTTIDAE(FAMILY)	1.	20.0	4.6	4.1
TOTAL	5.	100.0	23.1	20.3

TABLE: 169
 CRUISE: NC 80-3
 SAMPLE NO.: 22
 DATE: 13/3/80
 VESSEL: G.B. REED
 POSITION: 50 30.0 N 128 26.3 W
 GRID POSITION:
 BOTTOM DEPTH: 183 M
 WIND DIRECTION: 40 DEG
 WIND VELOCITY: 4 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 7.5 C
 STD NUMBER: 16
 RT/XBT NUMBER:
 TIME OF TOW: 2250 HR
 DEPTH OF TOW: 160 M
 TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 310 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.16

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	1.	100.0	3.2	5.2

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	2.	10.5	6.5	10.3
RATHYLAGIDAE (FAMILY)	1.	5.3	3.2	5.2
LYCONECTES ALEUTENSIS	2.	10.5	6.5	10.3
SCORPAENIDAE (FAMILY)	9.	47.4	29.0	46.4
ANOPLOPODUMA FIMBRIA	1.	5.3	3.2	5.2
COTTICAE (FAMILY)	4.	21.1	12.9	20.6
TOTAL	19.	100.0	61.3	98.0

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
LYCONECTES ALEUTENSIS	1.	50.0	3.2	5.2
OPHIODON ELONGATUS	1.	50.0	3.2	5.2
TOTAL	2.	100.0	6.5	10.3

TABLE: 170
 CRUISE: WC 80-3
 SAMPLE NO.: 23
 DATE: 14/3/80
 VESSEL: G.B. REED
 POSITION: 50 30.0 N 128 36.0 W
 GRID POSITION:
 BOTTOM DEPTH: 1061 M

WIND DIRECTION: 130 DEG
 WIND VELOCITY: 5 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 6.9 C
 STD NUMBER: 17
 BT/XBT NUMBER:
 TIME OF TOW: 0010 HR
 DEPTH OF TOW: 558 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 809 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.90

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	6.	100.0	7.4	41.4

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
	6.	100.0	7.4	41.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
SCORPAENIDAE (FAMILY)	7.	100.0	8.7	48.3

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
	7.	100.0	8.7	48.3

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
SCORPAENICHTHYS MARMORATUS	1.	100.0	1.2	6.9

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
	1.	100.0	1.2	6.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
MYCTOPHIDAE (FAMILY)	6.	100.0	7.4	41.4

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
	6.	100.0	7.4	41.4

TABLE: 171
 CRUISE: HC 80- 3
 SAMPLE NO.: 27
 DATE: 14/ 3/80
 VESSEL: G.R. REED
 POSITION: 51 0.0 N 128 31.0 W
 GRID POSITION:
 BOTTOM DEPTH: 86 M

WIND DIRECTION: 120 DEG
 WIND VELOCITY: 6 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 7.5 C
 STD NUMBER: 18
 BT/XBT NUMBER:
 TIME OF TOW: 0430 HR
 DEPTH OF TOW: 76 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BUNGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 185 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 4.13

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
MICROGADUS PROXIMUS	1.	7.7	5.4	4.1
AMMODYTES HEXAPTERUS	9.	69.2	48.6	37.2
SCURPAENIDAE(FAMILY)	1.	7.7	5.4	4.1
HEXAGRAMMIDAE(FAMILY)	1.	7.7	5.4	4.1
COTTIDAE(FAMILY)	1.	7.7	5.4	4.1
 TOTAL	13.	100.0	70.3	53.7

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
OPHIODON ELONGATUS	1.	100.0	5.4	4.1
 TOTAL	1.	100.0	5.4	4.1

30

TABLE: 172
 CRUISE: MC 80- 3
 SAMPLE NO.: 26
 DATE: 14/ 3/80
 VESSEL: G.B. REED
 POSITION: 51 0.0 N 128 56.0 W
 GRID POSITION:
 BOTTOM DEPTH: 77 M

WIND DIRECTION: 120 DEG
 WIND VELOCITY: 5 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 8.5 C
 STD NUMBER: 19
 BT/XBT NUMBER:
 TIME OF TOW: 0620 HR
 DEPTH OF TOW: 58 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 168 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 3.44

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	10.	47.6	59.5	34.4
SCORPAENIDAE(FAMILY)	10.	47.6	59.5	34.4
CYCLOPTERIDAE(FAMILY)	1.	4.8	6.0	3.4
TOTAL	21.	100.0	125.0	72.2

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	3.	100.0	17.9	10.3
TOTAL	3.	100.0	17.9	10.3

TABLE: 173
 CRUISE: NC 80-3
 SAMPLE NO.: 25
 DATE: 14/ 3/80
 VESSEL: G.B. REED
 POSITION: 51 0.0 N 129 21.0 W
 GRID POSITION:
 BOTTOM DEPTH: 174 M

WIND DIRECTION: 0 DEG
 WIND VELOCITY: 5 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 8.2 C
 STD NUMBER: 20
 BT/XBT NUMBER:
 TIME OF TOW: HR
 DEPTH OF TOW: 150 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: HONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 284 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.29

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	100.0	7.0	10.6

TOTAL	2.	100.0	7.0	10.6
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	2.	50.0	7.0	10.6
SCORPENAIDAE(FAMILY)	2.	50.0	7.0	10.6

TOTAL	4.	100.0	14.1	21.2
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	5.	100.0	17.6	26.4

TOTAL	5.	100.0	17.6	26.4
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TABLE: 174
 CRUISE: WC 80-3
 SAMPLE NO.: 24
 DATE: 14/ 3/80
 VESSEL: G.B. REED
 POSITION: 51 0.0 N 129 48.0 W
 GRID POSITION:
 BOTTOM DEPTH: 914 M

WIND DIRECTION: 330 DEG
 WIND VELOCITY: 6 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 7.7 C
 STD NUMBER: 21
 BT/XBT NUMBER:
 TIME OF TOW: 1105 HR
 DEPTH OF TOW: 466 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 735 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.34

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	4.	100.0	5.4	25.4
TOTAL	4.	100.0	5.4	25.4

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
CHAULiodonidae(FAMILY)	1.	33.3	1.4	6.3
Myctophidae(FAMILY)	2.	66.7	2.7	12.7
TOTAL	3.	100.0	4.1	19.0

TABLE: 175
 CRUISE: WC 80- 3
 SAMPLE NO.: 32
 DATE: 14/ 3/80
 VESSEL: G.B. REED
 POSITION: 51 30.0 N 129 51.0 W
 GRID POSITION:
 BOTTOM DEPTH: 183 M

WIND DIRECTION: 310 DEG
 WIND VELOCITY: 7 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.8 C
 STD NUMBER: 22
 BT/XRT NUMBER:
 TIME OF TOW: 1445 HR
 DEPTH OF TOW: 164 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BUNGU .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 382 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 4.29

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
COTTIDAE(FAMILY)	3.	100.0	7.9	12.9
TOTAL	3.	100.0	7.9	12.9

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
HEXAGRAMMIDAE(FAMILY)	1.	100.0	2.6	4.3
TOTAL	1.	100.0	2.6	4.3

TABLE: 176
 CRUISE: WC 80-3
 SAMPLE NO.: 31
 DATE: 14/ 3/80
 VESSEL: G.B. REED
 POSITION: 51 30.0 N 130 7.5 W
 GRID POSITION:
 BOTTOM DEPTH: 914 M

WIND DIRECTION: 310 DEG
 WIND VELOCITY: 9 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 8.2 C
 STD NUMBER: 23
 BT/XBT NUMBER:
 TIME OF TOW: 1657 HR
 DEPTH OF TOW: 422 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 959 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 4.40

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
PISCES	2.	100.0	2.1	8.8
TOTAL	2.	100.0	2.1	8.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
PISCES	4.	5.3	4.2	17.6
SCORPENAENIDAE(FAMILY)	69.	90.8	71.9	303.6
COTTIDAE(FAMILY)	3.	3.9	3.1	13.2
TOTAL	76.	100.0	79.2	334.4

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
HEXAGRAMMIDAE(FAMILY)	1.	100.0	1.0	4.4
TOTAL	1.	100.0	1.0	4.4

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
CHAULIODONTIDAE(FAMILY)	1.	16.7	1.0	4.4
MYCTOPHIDAE(FAMILY)	4.	66.7	4.2	17.6
CYCLOPTERIDAE(FAMILY)	1.	16.7	1.0	4.4
TOTAL	6.	100.0	6.3	26.4

TABLE: 179
 CRUISE: WC 80- 3
 SAMPLE NO.: 36
 DATE: 14/ 3/80
 VESSEL: G.B. REED
 POSITION: 52 0.0 N 131 20.0 W
 GRID POSITION:
 BOTTOM DEPTH: 1280 M

WIND DIRECTION: 270 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 2 M
 SURFACE TEMP: 6.1 C
 STD NUMBER: 26
 BT/XBT NUMBER:
 TIME OF TOW: 2400 HR
 DEPTH OF TOW: 497 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 582 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 8.53

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	1.	100.0	1.7	8.5

TOTAL				
TOTAL	1.	100.0	1.7	8.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
BATHYLAGIDAE (FAMILY)	1.	14.3	1.7	8.5
AMMODYTES HEXAPTERUS	1.	14.3	1.7	8.5
COTTIDAE (FAMILY)	5.	71.4	8.6	42.6

TOTAL				
TOTAL	7.	100.0	12.0	59.7

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
SCORPAENICHTHYS MARMORATUS	1.	100.0	1.7	8.5

TOTAL				
TOTAL	1.	100.0	1.7	8.5

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
MYCTOPHIDAE (FAMILY)	5.	100.0	8.6	42.6

TOTAL				
TOTAL	5.	100.0	8.6	42.6

TABLE: 180
 CRUISE: WC 80-3
 SAMPLE NO.: 38
 DATE: 15/ 3/80
 VESSEL: G.B. REED
 POSITION: 52 30.0 N 131 47.0 W
 GRID POSITION:
 BOTTOM DEPTH: 199 M

WIND DIRECTION: 280 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 2 M
 SURFACE TEMP: 6.9 C
 STD NUMBER: 27
 BT/XBT NUMBER:
 TIME OF TOW: 0419 HR
 DEPTH OF TOW: 180 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 297 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.05

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	1.	33.3	3.4	6.0
THERAGRA CHALCOGRAMMA	2.	66.7	6.7	12.1
TOTAL	3.	100.0	10.1	18.1

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	1.	20.0	3.4	6.0
SCORPAENIDAE(FAMILY)	3.	60.0	10.1	18.1
COTTIDAE(FAMILY)	1.	20.0	3.4	6.0
TOTAL	5.	100.0	16.8	30.2

TABLE: 181
 CRUISE: WC 80-3
 SAMPLE NO.: 37
 DATE: 15/ 3/80
 VESSEL: G.B. REED
 POSITION: 52 30.0 N 131 53.2 W
 GRID POSITION:
 BOTTOM DEPTH: 914 M

WIND DIRECTION: 280 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 2 M
 SURFACE TEMP: 6.0 C
 STD NUMBER: 28
 HT/XBT NUMBER:
 TIME OF TOW: 0508 HR
 DEPTH OF TOW: 494 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: HONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 697 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT: 9.0 F.T. 7.09

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	6.	100.0	8.6	42.5

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
	6.	100.0	8.6	42.5

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	3.	75.0	4.3	21.3
BATHYLAGIDAE (FAMILY)	1.	25.0	1.4	7.1

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
	4.	100.0	5.7	28.4

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
COTTIDAE (FAMILY)	2.	100.0	2.9	14.2

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
	2.	100.0	2.9	14.2

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE (FAMILY)	2.	100.0	2.9	14.2

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
	2.	100.0	2.9	14.2

TABLE: 182
 CRUISE: NC 80-3
 SAMPLE NO.: 39
 DATE: 15/3/80
 VESSEL: G.R. REED
 POSITION: 53° 0.0' N 132° 26.0' W
 GRID POSITION:
 BOTTOM DEPTH: 128 M

WIND DIRECTION: 160 DEG
 WIND VELOCITY: 2 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 7.5 C
 STD NUMBER: 29
 RT/XBT NUMBER:
 TIME OF TOW: 0930 HR
 DEPTH OF TOW: 92 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGU .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 223 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT: 9.H.F.: 4.11

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
AMMUDYTES HEXAPTERUS	1.	25.0	4.5	4.1
SCORPAENIDAE(FAMILY)	3.	75.0	13.5	12.3
TOTAL	4.	100.0	17.9	16.4

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE(FAMILY)	1.	100.0	4.5	4.1
TOTAL	1.	100.0	4.5	4.1

TABLE: 183
 CRUISE: NC 80-3
 SAMPLE NO.: 40
 DATE: 15/3/80
 VESSEL: G.B. REED
 POSITION: 53° 0.0' N 132° 40.0' W
 GRID POSITION:
 BOTTOM DEPTH: 457 M

WIND DIRECTION: 240 DEG
 WIND VELOCITY: 2 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.5 C
 STD NUMBER: 30
 BT/XBT NUMBER:
 TIME OF TOW: 1045 HR
 DEPTH OF TOW: 320 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 501 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.38

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	3.	50.0	6.0	19.1
THERAGRA CHALCUGRAMMA	3.	50.0	6.0	19.1
TOTAL	6.	100.0	12.0	38.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	4.	30.8	8.0	25.5
SCORPENIDAE (FAMILY)	9.	69.2	18.0	57.4
TOTAL	13.	100.0	25.9	82.9

TABLE: 184
 CRUISE: NC 80-3
 SAMPLE NO.: 41
 DATE: 15/3/80
 VESSEL: G.B. REED
 POSITION: 53° 0.0' N 132° 36.0' W
 GRID POSITION:
 BOTTOM DEPTH: 878 M

WIND DIRECTION: 180 DEG
 WIND VELOCITY: 6 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 6.8 C
 STD NUMBER: 31
 BT/XBT NUMBER:
 TIME OF TOW: 1145 HR
 DEPTH OF TOW: 492 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: MUNGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 704 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT: S.H.F.t 6.98

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
ANOPLOPOMA FIMBRIA	9.	100.0	12.8	62.8
TOTAL	9.	100.0	12.8	62.8

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES SCORPAENIDAE (FAMILY)	5. 16.	23.8 76.2	7.1 22.7	34.9 111.7
TOTAL	21.	100.0	29.8	146.6

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE (FAMILY)	4.	100.0	5.7	27.9
TOTAL	4.	100.0	5.7	27.9

TABLE: 185
 CRUISE: WC 80- 3
 SAMPLE NO.: 44
 DATE: 15/ 3/80
 VESSEL: G.B. REED
 POSITION: 53 20.0 N 132 48.5 W
 GRID POSITION:
 BOTTOM DEPTH: 139 M

WIND DIRECTION: 170 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.0 C
 STD NUMBER: 32
 BT/XBT NUMBER:
 TIME OF TOW: 1455 HR
 DEPTH OF TOW: 113 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 187 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.03

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	2.	33.3	10.7	12.1
AMMODYTES HEXAPTERUS	2.	33.3	10.7	12.1
SCORPAENIDAE(FAMILY)	2.	33.3	10.7	12.1
TOTAL	6.	100.0	32.1	36.2

- 42 -

TABLE: 186
 CRUISE: WC 80- 3
 SAMPLE NO.: 43
 DATE: 15/ 3/80
 VESSEL: G.B. REED
 POSITION: 53 20.0 N 133 1.0 W
 GRID POSITION:
 BOTTOM DEPTH: 265 M

WIND DIRECTION: 160 DEG
 WIND VELOCITY: 12 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 6.3 C
 STD NUMBER: 33
 BT/XBT NUMBER:
 TIME OF TOW: 1535 HR
 DEPTH OF TOW: 252 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 325 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 7.75

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
BATHYLAGIDAE(FAMILY)	3.	12.5	9.2	23.3
AMMODYTES HEXAPTERUS	3.	12.5	9.2	23.3
SCORPAENIDAE(FAMILY)	17.	70.8	52.3	131.8
HEXAGRAMMIIDAE(FAMILY)	1.	4.2	3.1	7.8
TOTAL	24.	100.0	73.8	186.0

TABLE: 187
 CRUISE: WC 80-3
 SAMPLE NO.: 43A
 DATE: 15/3/80
 VESSEL: G.B. REED
 POSITION: 53 20.0 N 133 5.4 W
 GRID POSITION:
 BOTTOM DEPTH: 256 M

WIND DIRECTION: 180 DEG
 WIND VELOCITY: 12 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 6.8 C
 STD NUMBER: 34
 HT/XBT NUMBER:
 TIME OF TOW: 1645 HR
 DEPTH OF TOW: 249 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: RONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 355 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 7.00

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
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PISCES	1.	100.0	2.8	7.0
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TOTAL	1.	100.0	2.8	7.0
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
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BATHYLAGIDAE(FAMILY)	1.	8.3	2.8	7.0
AMMODYTIDAE HEXAPTERUS	4.	33.3	11.3	28.0
SCORPAENIDAE(FAMILY)	7.	58.3	19.7	49.0

TOTAL	12.	100.0	33.8	84.0
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TABLE: 188
 CRUISE: WC 80W 3
 SAMPLE NO.: 43B
 DATE: 15/ 3/80
 VESSEL: G.B. REED
 POSITION: 53 20.0 N 133 9.0 W
 GRID POSITION:
 BOTTOM DEPTH: 594 M

WIND DIRECTION: 170 DEG
 WIND VELOCITY: 12 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.6 C
 STD NUMBER: 35
 BT/XBT NUMBER:
 TIME OF TOW: 1800 HR
 DEPTH OF TOW: 479 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 639 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 7.50

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
ANOPLOPODUMA FIMBRIA	30.	100.0	46.9	225.0

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
	30.	100.0	46.9	225.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
BATHYLAGIDAE(FAMILY)	3.	75.0	4.7	22.5
AMMODYTES HEXAPTERUS	1.	25.0	1.6	7.5

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
	4.	100.0	6.3	30.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE(FAMILY)	3.	100.0	4.7	22.5

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
	3.	100.0	4.7	22.5

TABLE: 189
 CRUISE: NC 80- 3
 SAMPLE NO.: 42
 DATE: 15/ 3/80
 VESSEL: G.B. REED
 POSITION: 53 20.0 N 133 19.0 W
 GRID POSITION:
 BOTTOM DEPTH: 878 M

WIND DIRECTION: 160 DEG
 WIND VELOCITY: 15 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.1 C
 STD NUMBER: 36
 BT/XBT NUMBER:
 TIME OF TOW: 1940 HR
 DEPTH OF TOW: 460 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 664 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.92

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	6.	85.7	9.0	41.5
THERAGRA CHALCOGRAMMA	1.	14.3	1.5	6.9
TOTAL	7.	100.0	10.5	48.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
BATHYLAGIDAE(FAMILY)	2.	50.0	3.0	13.8
SCORPAENIIDAE(FAMILY)	2.	50.0	3.0	13.8
TOTAL	4.	100.0	6.0	27.7

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
SCORPAENICHTHYS MARMORATUS	1.	100.0	1.5	6.9
TOTAL	1.	100.0	1.5	6.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE(FAMILY)	5.	100.0	7.5	34.6
TOTAL	5.	100.0	7.5	34.6

TABLE: 190
 CRUISE: WC 80- 3
 SAMPLE NO.: 45
 DATE: 16/ 3/80
 VESSEL: G.B. REED
 POSITION: 54 0.0 N 133 17.5 W
 GRID POSITION:
 BOTTOM DEPTH: 55 M

WIND DIRECTION: 170 DEG
 WIND VELOCITY: 20 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 4 M
 SURFACE TEMP: 7.4 C
 STD NUMBER:
 BT/XBT NUMBER:
 TIME OF TOW: 0030 HR
 DEPTH OF TOW: 34 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 149 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 2.27

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	6.7	6.7	2.3
AMMODYTES HEXAPTERUS	10.	66.7	67.1	22.7
SCORPAENIDAE(FAMILY)	1.	6.7	6.7	2.3
COTTIDAE(FAMILY)	3.	20.0	20.1	6.8
TOTAL	15.	100.0	100.7	34.0

TABLE: 191
 CRUISE: WC 80- 3
 SAMPLE NO.: 46
 DATE: 16/ 3/80
 VESSEL: G.B. REED
 POSITION: 54 0.0 N 133 27.0 W
 GRID POSITION:
 BOTTOM DEPTH: 91 M

WIND DIRECTION: 230 DEG
 WIND VELOCITY: 9 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 3 M
 SURFACE TEMP: 6.8 C
 STD NUMBER: 37
 BT/XBT NUMBER:
 TIME OF TOW: 1314 HR
 DEPTH OF TOW: 82 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: HONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 186 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 4.42

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
HEXAGRAMMIDAE(FAMILY)	19.	100.0	102.2	84.0
TOTAL	19.	100.0	102.2	84.0

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	1.	100.0	5.4	4.4
TOTAL	1.	100.0	5.4	4.4

TABLE: 192
 CRUISE: NC 80-3
 SAMPLE NO.: 47
 DATE: 16/ 3/80
 VESSEL: G.H. REED
 POSITION: 54 0.0 N 133 31.0 W
 GRID POSITION:
 BOTTOM DEPTH: 204 M

WIND DIRECTION: 240 DEG
 WIND VELOCITY: 9 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 3 M
 SURFACE TEMP: 7.1 C
 STD NUMBER: 38
 BT/XBT NUMBER:
 TIME OF TOW: 1352 HR
 DEPTH OF TOW: 192 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 389 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 4.93

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	11.	100.0	28.3	54.2

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	1.	100.0	2.6	4.9

TOTAL	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
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TABLE: 193
 CRUISE: NC 80-3
 SAMPLE NO.: 48
 DATE: 16/ 3/80
 VESSEL: G.B. REED
 POSITION: 54 0.0 N 133 48.0 W
 GRID POSITION:
 BOTTOM DEPTH: 1140 M

WIND DIRECTION: 210 DEG
 WIND VELOCITY: 7 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 2 M
 SURFACE TEMP: 7.5 C
 STD NUMBER: 39
 BT/XBT NUMBER:
 TIME OF TOW: 1527 HR
 DEPTH OF TOW: 552 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 829 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.66

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
ANOPLOPOMA FIMBRIA	1.	100.0	1.2	6.7
TOTAL	1.	100.0	1.2	6.7

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	1.	16.7	1.2	6.7
BATHYLAGIDAE (FAMILY)	5.	83.3	6.0	33.3
TOTAL	6.	100.0	7.2	40.0

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
CHAULIODONTIDAE (FAMILY)	1.	10.0	1.2	6.7
MYCTOPHIDAE (FAMILY)	9.	90.0	10.9	59.9
TOTAL	10.	100.0	12.1	66.6

TABLE: 194
 CRUISE: WC 80- 3
 SAMPLE NO.: 47
 DATE: 16/ 3/80
 VESSEL: G.B. REED
 POSITION: 54 30.0 N 134 6.0 W
 GRID POSITION:
 BOTTOM DEPTH: 1204 M

WIND DIRECTION: 160 DEG
 WIND VELOCITY: 3 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 8.0 C
 STD NUMBER: 40
 BT/XBT NUMBER:
 TIME OF TOW: 1935 HR
 DEPTH OF TOW: 486 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 645 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT: 8.
 S.H.F.: 7.53

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
ANOPLOPOMA FILIBRIA	20.	100.0	31.0	150.6
TOTAL	20.	100.0	31.0	150.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
BATHYLAGIDAE(FAMILY)	2.	66.7	3.1	15.1
ANOPLOPOMA FILIBRIA	1.	33.3	1.6	7.5
TOTAL	3.	100.0	4.7	22.6

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
PLEURONECTIDAE(FAMILY)	1.	100.0	1.6	7.5
TOTAL	1.	100.0	1.6	7.5

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
MYCTOPHIDAE(FAMILY)	2.	66.7	3.1	15.1
HEXAGRAMMIDAE(FAMILY)	1.	33.3	1.6	7.5
TOTAL	3.	100.0	4.7	22.6

TABLE #: 195
 CRUISE #: WC 80-3
 SAMPLE NO.: 50
 DATE: 16/3/80
 VESSEL: G.B. REED
 POSITION: 54 30.0 N 133 49.0 W
 GRID POSITION:
 BOTTOM DEPTH: 256 M

WIND DIRECTION: 230 UFG
 WIND VELOCITY: 6 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.4 C
 STD NUMBER: 41
 BT/XRT NUMBER:
 TIME OF TOW: 2155 HR
 DEPTH OF TOW: 221 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BUNGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 332 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.66

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
BATHYLAGIDAE (FAMILY)	1.	50.0	3.0	6.7
COTTIDAE (FAMILY)	1.	50.0	3.0	6.7
TOTAL	2.	100.0	6.0	13.3

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
HEXAGRAMMIDAE (FAMILY)	1.	100.0	3.0	6.7
TOTAL	1.	100.0	3.0	6.7

TABLE: 196
 CRUISE: NC 80- 3
 SAMPLE NO.: 51
 DATE: 16/ 3/80
 VESSEL: G.B. REED
 POSITION: 54 30.0 N 133 22.0 W
 GRID POSITION:
 BOTTOM DEPTH: 256 M

WIND DIRECTION:	200 DEG	TOW SPEED:	1 MPS
WIND VELOCITY:	6 MPS	TYPE OF TOW:	OBLIQUE
WAVE HEIGHT:		GEAR TYPE:	BONGO .25 M2
SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
SURFACE TEMP:	6.4 C	VOL. FILTERED:	246 M3
STD NUMBER:	42	DISP. VOLUME:	
BT/XBT NUMBER:		PLANKTON CONC.:	
TIME OF TOW:	2400 HR	ALIQUOT:	
DEPTH OF TOW:	184 M	S.H.F.:	7.47

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	1.	100.0	4.1	7.5
TOTAL	1.	100.0	4.1	7.5

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	2.	100.0	8.1	14.9
TOTAL	2.	100.0	8.1	14.9

TABLE: 197
 CRUISE: WC 80- 3
 SAMPLE NO.: 52
 DATE: 17/ 3/80
 VESSEL: G.R. REED
 POSITION: 54 30.0 N 132 55.0 W
 GRID POSITION:
 BOTTOM DEPTH: 384 M

WIND DIRECTION: 210 DEG
 WIND VELOCITY: 5 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 6.2 C
 STD NUMBER: 43
 BT/XBT NUMBER:
 TIME OF TOW: 0230 HR
 DEPTH OF TOW: 320 M

TOW SPEED: 1 MPS
 TYPE OF TOW: ORLIQUE
 GEAR TYPE: RONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 628 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.09

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	2.	9.5	3.2	10.2
AMMODYTES HEXAPTERUS	16.	76.2	25.5	81.4
SCORPAENIDAE(FAMILY)	3.	14.3	4.8	15.3
TOTAL	21.	100.0	33.4	106.9

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	2.	50.0	3.2	10.2
HEXAGRAMMIDAE(FAMILY)	2.	50.0	3.2	10.2
TOTAL	4.	100.0	6.4	20.4

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE(FAMILY)	2.	100.0	3.2	10.2
TOTAL	2.	100.0	3.2	10.2

TABLE: 19R
 CRUISE: WC 80-3
 SAMPLE NO.: 53
 DATE: 17/3/80
 VESSEL: G.B. REED
 POSITION: 54 30.0 N 132 27.0 W
 GRID POSITION:
 BOTTOM DEPTH: 375 M

	WIND DIRECTION:	230 DEG	TOW SPEED:	1 MPS
	WIND VELOCITY:	3 MPS	TYPE OF TOW:	OBLIQUE
	WAVE HEIGHT:	0 M	GEAR TYPE:	BONGO .25 M ²
	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
	SURFACE TEMP:	6.1 C	VOL. FILTERED:	506 M ³
	STD NUMBER:	44	DISP. VOLUME:	
	BT/XRT NUMBER:		PLANKTON CONC.:	
	TIME OF TOW:	0505 HR	ALIQUOT:	
	DEPTH OF TOW:	348 M	S.H.F.:	6.87

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
CLUPEA HARENGUS PALLASI	2.	50.0	4.0	13.7
LEUROGLOSSUS STILBIUS	2.	50.0	4.0	13.7
TOTAL	4.	100.0	7.9	27.5

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
HEXAGRAMMIDAE (FAMILY)	1.	100.0	2.0	6.9
TOTAL	1.	100.0	2.0	6.9

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
MYCTOPHIDAE (FAMILY)	4.	100.0	7.9	27.5
TOTAL	4.	100.0	7.9	27.5

TABLE: 199
 CRUISE: NC 80- 3
 SAMPLE NO.: 54
 DATE: 17/ 3/80
 VESSEL: G.B. REED
 POSITION: 54 30.0 N 132 0.0 W
 GRID POSITION:
 BOTTOM DEPTH: 256 M

WIND DIRECTION: 280 DEG
 WIND VELOCITY: 4 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 6.3 C
 STD NUMBER: 45
 BT/XBT NUMBER:
 TIME OF TOW: 0730 HR
 DEPTH OF TOW: 194 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 420 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 4.63

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
PISCES	1.	100.0	2.4	4.6
TOTAL	1.	100.0	2.4	4.6

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
AMMODYTES HEXAPTERUS	7.	100.0	16.7	32.4
TOTAL	7.	100.0	16.7	32.4

TABLE: 200
 CRUISE: NC 80-3
 SAMPLE NO.: SS
 DATE: 17/ 3/80
 VESSEL: G.B. REED
 POSITION: 54 30.0 N 131 34.0 W
 GRID POSITION:
 BOTTOM DEPTH: 275 M

WIND DIRECTION: 280 DEG
 WIND VELOCITY: 4 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 5.9 C
 STD NUMBER: 46
 BT/XBT NUMBER:
 TIME OF TOW: 0950 HR
 DEPTH OF TOW: 193 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 440 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.M.F.: 4.38

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	2.	50.0	4.5	8.8
AMMODYTES HEXAPTERUS	2.	50.0	4.5	8.8
TOTAL	4.	100.0	9.1	17.5

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	1.	100.0	2.3	4.4
TOTAL	1.	100.0	2.3	4.4

TABLE: 201
 CRUISE: WC 80-3
 SAMPLE NO.: 56
 DATE: 17/3/80
 VESSEL: G.B. REED
 POSITION: 54 30.0 N 131 7.0 W
 GRID POSITION:
 BOTTOM DEPTH: 143 M

WIND DIRECTION: 310 DEG
 WIND VELOCITY: 4 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 7.3 C
 STD NUMBER:
 BT/XBT NUMBER:
 TIME OF TOW: 1212 HR
 DEPTH OF TOW: 148 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 266 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.58

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
THERAGRA CHALCOGRAMMA	12.	100.0	45.1	67.0
TOTAL	12.	100.0	45.1	67.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
LEUROGLOSSUS STILBIUS	5.	3.7	18.8	27.9
MICROGADUS PROXIMUS	2.	1.5	7.5	11.2
THERAGRA CHALCOGRAMMA	1.	0.7	3.8	5.6
AMMODYTES HEXAPTERUS	125.	93.3	469.9	697.5
SCURPAENIDAE(FAMILY)	1.	0.7	3.8	5.6
TOTAL	134.	100.0	503.8	747.7

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
AMMODYTES HEXAPTERUS	2.	100.0	7.5	11.2
TOTAL	2.	100.0	7.5	11.2

TABLE: 202
 CRUISE: NC 80- 3
 SAMPLE NO.: 57
 DATE: 17/ 3/80
 VESSEL: G.B. REED
 POSITION: 54 0.0 N 131 25.0 W
 GRID POSITION:
 BOTTOM DEPTH: 24 M

WIND DIRECTION: 320 DEG
 WIND VELOCITY: 15 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 6.8 C
 STD NUMBER: 47
 BT/XBT NUMBER:
 TIME OF TOW: 1547 HR
 DEPTH OF TOW: 19 M

TOW SPEED: 1 MPS
 TYPE OF TOW:
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 128 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 1.45

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	0.2	7.8	1.4
LEUROGLOSSUS STILBIUS	1.	0.2	7.8	1.4
AMMODYTES HEXAPTERUS	403.	99.5	3148.4	584.3
TOTAL	405.	100.0	3164.1	587.2

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
STICHAEIDAE(FAMILY)	1.	5.9	7.8	1.4
AMMODYTES HEXAPTERUS	16.	94.1	125.0	23.2
TOTAL	17.	100.0	132.8	24.6

TABLE: 203
 CRUISE: NC 80- 3
 SAMPLE NO.: 58
 DATE: 17/ 3/80
 VESSEL: G.B. REED
 POSITION: 54 0.0 N 131 8.0 W
 GRID POSITION:
 BOTTOM DEPTH: 36 M

WIND DIRECTION: 300 DEG
 WIND VELOCITY: 13 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 6.7 C
 STD NUMBER:
 BT/XBT NUMBER:
 TIME OF TOW: 1705 HR
 DEPTH OF TOW: 31 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGU .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 145 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 2.17

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LEUROGLOSSUS STILBIUS	1.	0.3	6.9	2.2
MICROGADUS PROXIMUS	12.	3.1	82.8	26.0
AMMODYTES HEXAPTERUS	372.	95.6	2565.5	807.2
SCORPAENIDAE(FAMILY)	2.	0.5	13.8	4.3
AGONIDAE(FAMILY)	1.	0.3	6.9	2.2
CYCLOPTERIDAE(FAMILY)	1.	0.3	6.9	2.2
 TOTAL	 389.	 100.0	 2682.8	 844.1

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
STICHAEIIDAE(FAMILY)	1.	50.0	6.9	2.2
COTTIDAE(FAMILY)	1.	50.0	6.9	2.2
 TOTAL	 2.	 100.0	 13.8	 4.3

TABLE: 204
 CRUISE: WC 80-3
 SAMPLE NO.: 59
 DATE: 17/3/80
 VESSEL: G.B. REED
 POSITION: 54° 0.0' N 130° 55.0' W
 GRID POSITION:
 BOTTOM DEPTH: 64 M

WIND DIRECTION: 300 DEG
 WIND VELOCITY: 13 MPS
 WAVE HEIGHT:
 SWELL HEIGHT:
 SURFACE TEMP: 6.8 C
 STD NUMBER:
 HT/XBT NUMBER:
 TIME OF TOW: 1805 HR
 DEPTH OF TOW: 36 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 138 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 2.63

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	2.	13.3	14.5	5.3
THERAGRA CHALCOGRAMMA	13.	86.7	94.2	34.2
TOTAL	15.	100.0	108.7	39.4

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
PISCES	1.	12.5	7.2	2.6
AMMOOYTES HEXAPTERUS	6.	75.0	43.5	15.8
CYCLOPTERIDAE (FAMILY)	1.	12.5	7.2	2.6
TOTAL	8.	100.0	58.0	21.0

TABLE: 205
 CRUISE: WC 80-3
 SAMPLE NO.: 50
 DATE: 17/ 3/80
 VESSEL: G.B. REED
 POSITION: 53 30.0 N 130 42.0 W
 GRID POSITION:
 BOTTOM DEPTH: 110 M

WIND DIRECTION: 300 DEG
 WIND VELOCITY: 8 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 6.9 C
 STD NUMBER: 48
 BT/XRT NUMBER:
 TIME OF TOW: 2110 HR
 DEPTH OF TOW: 86 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 140 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.16

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
PISCES	2.	100.0	14.3	12.3
TOTAL	2.	100.0	14.3	12.3

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
AMMODYTES HEXAPTERUS	14.	87.5	100.0	86.2
SCORPAENIDAE(FAMILY)	2.	12.5	14.3	12.3
TOTAL	16.	100.0	114.3	98.6

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M ³)	CATCH (/10 M ²)
AMMODYTES HEXAPTERUS	1.	100.0	7.1	6.2
TOTAL	1.	100.0	7.1	6.2

TABLE: 206
 CRUISE: NC 80-3
 SAMPLE NO.: 61
 DATE: 17/ 3/80
 VESSEL: G.H. REED
 POSITION: 53 30.0 N 131 5.0 W
 GRID POSITION:
 BOTTOM DEPTH: 37 M

WIND DIRECTION: 260 DEG
 WIND VELOCITY: 6 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 6.8 C
 STD NUMBER:
 RT/XBT NUMBER:
 TIME OF TOW: 2320 HR
 DEPTH OF TOW: 23 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGU .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 143 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 1.63

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	1.	0.9	7.0	1.6
MICROGADUS PROXIMUS	3.	2.7	21.0	4.9
THERAGRA CHALCOURGRAMMA	3.	2.7	21.0	4.9
AMMODYTES HEXAPTERUS	97.	87.4	678.3	158.1
SCORPAENIDAE(FAMILY)	4.	3.6	28.0	6.5
COTTIDAE(FAMILY)	3.	2.7	21.0	4.9
TOTAL	111.	100.0	776.2	180.9

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	1.	100.0	7.0	1.6
TOTAL	1.	100.0	7.0	1.6

TABLE: 207
 CRUISE: NC 80-3
 SAMPLE NO.: 62
 DATE: 18/ 3/80
 VESSEL: G.B. REED
 POSITION: 53 30.0 N 131 32.0 W
 GRID POSITION:
 BOTTOM DEPTH: 24 M

WIND DIRECTION: 200 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 6.8 C
 STD NUMBER:
 BT/XBT NUMBER:
 TIME OF TOW: 0047 HR
 DEPTH OF TOW: 29 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 122 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 2.39

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	1.0	8.2	2.4
MICROGADUS PROXIMUS	97.	99.0	795.1	231.8

TOTAL	98.	100.0	803.3	234.2
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	1.	0.1	8.2	2.4
MICROGADUS PROXIMUS	7.	0.7	57.4	16.7
THERAGRA CHALCOURGRAMMA	3.	0.3	24.6	7.2
AMMODYTES HEXAPTERUS	1011.	97.9	8286.9	2416.3
HEXAGRAMMIDAE(FAMILY)	1.	0.1	8.2	2.4
CYCLOPTERIDAE(FAMILY)	1.	0.1	8.2	2.4
PLEURONECTIDAE(FAMILY)	9.	0.9	73.8	21.5

TOTAL	1033.	100.0	8467.2	2468.9
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	2.	40.0	16.4	4.8
COTTIDAE(FAMILY)	3.	60.0	24.6	7.2

TOTAL	5.	100.0	41.0	11.9
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TABLE: 208
 CRUISE: WC 80- 3
 SAMPLE NO.: 63
 DATE: 18/ 3/80
 VESSEL: G.B. REED
 POSITION: 53 0.0 N 131 6.0 W
 GRID POSITION:
 BOTTOM DEPTH: 31 M

WIND DIRECTION: 200 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 6.8 C
 STD NUMBER:
 HT/XBT NUMBER:
 TIME OF TOW: 0420 HR
 DEPTH OF TOW: 27 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: HONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 132 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 2.08

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	45.	69.2	340.9	93.6
THERAGRA CHALCOGRAMMA	20.	30.8	151.5	41.6

TOTAL	65.	100.0	492.4	135.2
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	34.	2.4	257.6	70.7
MICRUGADUS PROXIMUS	20.	1.4	151.5	41.6
THERAGRA CHALCOGRAMMA	86.	6.1	651.5	178.9
AMMUDYTES HEXAPTERUS	1249.	88.2	9462.1	2597.9
SCORPAENIDAE(FAMILY)	5.	0.4	37.9	10.4
COTTIDAE(FAMILY)	2.	0.1	15.2	4.2
AGUNIDAE(FAMILY)	1.	0.1	7.6	2.1
PLEURONECTIDAE(FAMILY)	19.	1.3	143.9	39.5

TOTAL	1416.	100.0	10727.3	2945.3
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
SCORPAENIDAE(FAMILY)	1.	50.0	7.6	2.1
COTTIDAE(FAMILY)	1.	50.0	7.6	2.1

TOTAL	2.	100.0	15.2	4.2
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TABLE: 209
 CRUISE: NC 80-3
 SAMPLE NO.: 64
 DATE: 18/3/80
 VESSEL: G.B. RFED
 POSITION: 53 0.0 N 130 40.0 W
 GRID POSITION:
 BOTTOM DEPTH: 92 M

WIND DIRECTION: 180 DEG
 WIND VELOCITY: 11 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.3 C
 STD NUMBER: 49
 BT/XBT NUMBER:
 TIME OF TOW: 0615 HR
 DEPTH OF TOW: 76 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 180 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 4.22

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
AMMODYTES HEXAPTERUS	5.	62.5	27.8	21.1
SCORPAENIDAE(FAMILY)	1.	12.5	5.6	4.2
COTTIDAE(FAMILY)	1.	12.5	5.6	4.2
CYCLOPOTERIDAE(FAMILY)	1.	12.5	5.6	4.2
TOTAL	8.	100.0	44.4	33.8

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
COTTIDAE(FAMILY)	1.	100.0	5.6	4.2
TOTAL	1.	100.0	5.6	4.2

TABLE: 210
 CRUISE: WC 80- 3
 SAMPLE NO.: 65
 DATE: 18/ 3/80
 VESSEL: G.B. REED
 POSITION: 53 0.0 N 130 13.0 W
 GRID POSITION:
 BOTTOM DEPTH: 220 M

WIND DIRECTION: 200 DEG
 WIND VELOCITY: 9 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 7.6 C
 STD NUMBER: 50
 BT/XBT NUMBER:
 TIME OF TOW: 0815 HR
 DEPTH OF TOW: 189 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 288 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.56

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
9CUPRIDIAE(FAMILY)	2.	33.3	6.9	13.1
COTTIDIAE(FAMILY)	1.	16.7	3.5	6.6
CYCLOPTERIDAE(FAMILY)	3.	50.0	10.4	19.7
TOTAL	6.	100.0	20.8	39.4

TABLE: 211
 CRUISE: WC 80- 3
 SAMPLE NO.: 68
 DATE: 19/ 3/80
 VESSEL: G.B. REED
 POSITION: 52 30.0 N 130 13.0 W
 GRID POSITION:
 BOTTOM DEPTH: 310 M

WIND DIRECTION: 280 DEG
 WIND VELOCITY: 13 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 8.0 C
 STD NUMBER: 53
 BT/XBT NUMBER:
 TIME OF TOW: 1643 HR
 DEPTH OF TOW: 307 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 432 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 7.12

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
CYCLOPTERIDAE(FAMILY)	1.	100.0	2.3	7.1
TOTAL	1.	100.0	2.3	7.1

JUVENILES	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
MYCTOPHIDAE(FAMILY)	2.	100.0	4.6	14.2
TOTAL	2.	100.0	4.6	14.2

TABLE:	212.	WIND DIRECTION:	270 DEG	TOW SPEED:	1 MPS
CRUISE:	KC 80- 3	WIND VELOCITY:	6 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	69	WAVE HEIGHT:		GEAR TYPE:	HONGO .25 M2
DATE:	18/ 3/80	SWELL HEIGHT:	1 M	MESH SIZE:	.351 MM
VESSEL:	G.B. REED	SURFACE TEMP:	7.5 C	VOL. FILTERED:	140 M3
POSITION:	52 30.0 N 130 40.0 W	STD NUMBER:	54	DISP. VOLUME:	
GRID POSITION:		BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	99 M	TIME OF TOW:	1900 HR	ALIQUOT:	
		DEPTH OF TOW:	68 M	S.M.F.:	4.84

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
HEXAGRAMMIDAE (FAMILY)	1.	33.3	7.1	4.8
CYCLAPTERIDAE (FAMILY)	2.	66.7	14.3	9.7
TOTAL	3.	100.0	21.4	14.5

TABLE: 213
 CRUISE: NC 80-3
 SAMPLE NO.: 70
 DATE: 18/ 3/80
 VESSEL: G.B. REED
 POSITION: 52 30.0 N 131 7.0 W
 GRID POSITION:
 BOTTOM DEPTH: 137 M

WIND DIRECTION: 270 DEG
 WIND VELOCITY: 7 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 7.1 C
 STD NUMBER: 55
 RT/XBT NUMBER:
 TIME OF TOW: 2020 HR
 DEPTH OF TOW: 102 M

TOW SPEED: 1 MPS
 TYPE OF TOW: 08LINUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 1/5 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.86

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES THERAGRA CHALCOGRAMMA	1. 13.	7.1 92.9	5.7 74.3	5.9 76.2
TOTAL	14.	100.0	80.0	82.0

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES MICRUGADUS PROXIMUS THERAGRA CHALCOGRAMMA AMMODYTES HEXAPTERUS COTTIDAE (FAMILY) CYCLOPTERIDAE (FAMILY)	3. 8. 28. 34. 1. 1.	4.0 10.7 37.3 45.3 1.3 1.3	17.1 45.7 160.0 194.3 5.7 5.7	17.6 46.9 164.1 199.2 5.9 5.9
TOTAL	75.	100.0	428.6	439.5

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
LYCONECTES ALEUTENSIS AMMODYTES HEXAPTERUS	1. 1.	50.0 50.0	5.7 5.7	5.9 5.9
TOTAL	2.	100.0	11.4	11.7

TABLE: 214
 CRUISE: NC 80- 3
 SAMPLE NO.: 71
 DATE: 18/ 3/80
 VESSEL: G.H. REED
 POSITION: 52 0.0 N 130 41.0 W
 GRID POSITION:
 BOTTOM DEPTH: 245 M

WIND DIRECTION: 250 DEG
 WIND VELOCITY: 6 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT:
 SURFACE TEMP: 7.8 C
 STD NUMBER: 56
 BT/XBT NUMBER:
 TIME OF TOW: 2325 HR
 DEPTH OF TOW: 220 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BONGU .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 375 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.87

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
SCORPAENIDAE(FAMILY)	2.	40.0	5.3	11.7
HEXAGRAMMIDAE(FAMILY)	2.	40.0	5.3	11.7
COTTIDAE(FAMILY)	1.	20.0	2.7	5.9
TOTAL	5.	100.0	13.3	29.3

TABLE: 215
 CRUISE: NC 80- 3
 SAMPLE NO.: 72
 DATE: 19/ 3/80
 VESSEL: G.B. REED
 POSITION: 52 0.0 N - 130 14.0 W
 GRID POSITION:
 BOTTOM DEPTH: 284 M

WIND DIRECTION: 220 DEG
 WIND VELOCITY: 7 MPS
 WAVE HEIGHT: 0 M
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 8.1 C
 STD NUMBER: 57
 BT/XBT NUMBER:
 TIME OF TOW: 0150 HR
 DEPTH OF TOW: 275 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBlique
 GEAR TYPE: BONGU .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 326 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 8.44

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	2.	100.0	6.1	16.9
TOTAL	2.	100.0	6.1	16.9

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
OPHIODON ELONGATUS	1.	100.0	3.1	8.4
TOTAL	1.	100.0	3.1	8.4

TABLE: 216
 CRUISE: NC 80- 3
 SAMPLE NO.: 73
 DATE: 19/ 3/80
 VESSEL: G.B. REED
 POSITION: 52 0.0 N 129 48.0 W
 GRID POSITION:
 BOTTOM DEPTH: 117 M

WIND DIRECTION: 180 DEG
 WIND VELOCITY: 6 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 7.7 C
 STD NUMBER: 58
 BT/XBT NUMBER:
 TIME OF TOW: 0400 HR
 DEPTH OF TOW: 96 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 175 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.48

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	3.	75.0	17.1	16.4
COTTIDAE(FAMILY)	1.	25.0	5.7	5.5
TOTAL	4.	100.0	22.9	21.9

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
COTTIDAE(FAMILY)	1.	100.0	5.7	5.5
TOTAL	1.	100.0	5.7	5.5

TABLE: 217
 CRUISE: NC 80- 3
 SAMPLE NO.: 74
 DATE: 19/ 3/80
 VESSEL: G.B. REED
 POSITION: 52 0.0 N 129 21.0 W
 GRID POSITION:
 BOTTOM DEPTH: 201 M

WIND DIRECTION: 150 DEG
 WIND VELOCITY: 11 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 0 M
 SURFACE TEMP: 7.9 C
 STD NUMBER: 59
 BT/XBT NUMBER:
 TIME OF TOW: 0600 HR
 DEPTH OF TOW: 169 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 299 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.64

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
HEXAGRAMMIDAE(FAMILY)	1.	33.3	3.3	5.6
COTTIDAE(FAMILY)	1.	33.3	3.3	5.6
CYCLOPTERIDAE(FAMILY)	1.	33.3	3.3	5.6
TOTAL	3.	100.0	10.0	16.9

TABLE: 219
 CRUISE: NC 80- 3
 SAMPLE NO.: 75
 DATE: 19/ 3/80
 VESSEL: G.B. REED
 POSITION: 52 0.0 N 128 56.0 W
 GRID POSITION:
 BOTTOM DEPTH: 117 M

WIND DIRECTION: 160 DEG
 WIND VELOCITY: 13 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 8.0 C
 STD NUMBER: 60
 BT/XBT NUMBER:
 TIME OF TOW: 0800 HR
 DEPTH OF TOW: 93 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 137 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.83

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	3.	9.7	21.9	20.5
MICROGAUDUS PROXIMUS	1.	3.2	7.3	6.8
AMMODYTES HEXAPTERUS	24.	77.4	175.2	163.9
SCORPAENIDAE(FAMILY)	3.	9.7	21.9	20.5
TOTAL	31.	100.0	226.3	211.7

TABLE: 219
 CRUISE: NC 80- 3
 SAMPLE NO.: 31
 DATE: 19/ 3/80
 VESSEL: G.B. REED
 POSITION: 51 30.0 N 129 21.0 W
 GRID POSITION:
 BOTTOM DEPTH: 55 M

WIND DIRECTION: 180 DEG
 WIND VELOCITY: 11 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 1 M
 SURFACE TEMP: 8.3 C
 STD NUMBER: 61
 BT/XBT NUMBER:
 TIME OF TOW: 1202 HR
 DEPTH OF TOW: 57 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 197 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 2.89

LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	17.	89.5	86.3	49.1
COTTIDAE(FAMILY)	2.	10.5	10.2	5.8
TOTAL	19.	100.0	96.4	54.9

TABLE: 220
 CRUISE: NC 80- 3
 SAMPLE NO.: 30
 DATE: 19/ 3/80
 VESSEL: G.B. REED
 POSITION: 51 30.0 N 128 56.0 W
 GRID POSITION:
 BOTTOM DEPTH: 53 M

WIND DIRECTION: 175 DEG
 WIND VELOCITY: 14 MPS
 WAVE HEIGHT:
 SWELL HEIGHT: 2 M
 SURFACE TEMP: 8.0 C
 STD NUMBER:
 BT/XRT NUMBER:
 TIME OF TOW: 1417 HR
 DEPTH OF TOW: 49 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBILIQUE
 GEAR TYPE: BUNGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 208 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 2.36

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
PISCES	3.	100.0	14.4	7.1

TOTAL	3.	100.0	14.4	7.1
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
AMMODYTES HEXAPTERUS	94.	91.3	451.9	221.8
SCORPENIIDAE(FAMILY)	1.	1.0	4.8	2.4
COTTIDAE(FAMILY)	8.	7.8	38.5	18.9

TOTAL	103.	100.0	495.2	243.1
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN.(/1000 M3)	CATCH (/10 M2)
LYCONECTES ALEUTENSIS	1.	100.0	4.8	2.4

TOTAL	1.	100.0	4.8	2.4
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TABLE:	221	WIND DIRECTION:	150 DEG	TOW SPEED:	1 MPS
CRUISE:	WC 80-3	WIND VELOCITY:	15 MPS	TYPE OF TOW:	OBLIQUE
SAMPLE NO.:	27	WAVE HEIGHT:		GEAR TYPE:	BONGU .25 M ²
DATE:	19/3/80	SWELL HEIGHT:	3 M	MESH SIZE:	.351 MM
VESSEL:	G.H. REED	SURFACE TEMP:	7.7 C	VOL. FILTERED:	253 M ³
POSITION:	51 30.0 N 128 31.0 W	STD NUMBER:	62	DISP. VOLUME:	
GRID POSITION:		BT/XBT NUMBER:		PLANKTON CONC.:	
BOTTOM DEPTH:	194 M	TIME OF TOW:	1615 HR	ALIQUOT:	
		DEPTH OF TOW:	184 M	S.H.F.:	7.29

POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
HEXAGRAMMIDAE (FAMILY)	1.	100.0	4.0	7.3
TOTAL	1.	100.0	4.0	7.3

TABLE: 222
 CRUISE: WC 80- 3
 SAMPLE NO.: 28
 DATE: 19/ 3/80
 VESSEL: G.R. REED
 POSITION: 51 0.0 N 128 6.0 W
 GRID POSITION:
 BOTTOM DEPTH: 91 M

WIND DIRECTION: 130 DEG
 WIND VELOCITY: 14 MPS
 WAVE HEIGHT:
 SWELL HEIGHT:
 SURFACE TEMP: 8.2 C
 STD NUMBER: 63
 BT/XBT NUMBER:
 TIME OF TOW: 2145 HR
 DEPTH OF TOW: 71 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M2
 MESH SIZE: .351 MM
 VOL. FILTERED: 141 M3
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.04

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	3.	100.0	21.3	15.1

TOTAL	3.	100.0	21.3	15.1
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LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PISCES	1.	25.0	7.1	5.0
MICROGADUS PROXIMUS	1.	25.0	7.1	5.0
AMMODYTES HEXAPTERUS	1.	25.0	7.1	5.0
SCORPAENIDAE(FAMILY)	1.	25.0	7.1	5.0

TOTAL	4.	100.0	28.4	20.2
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POST LARVAE	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
PTILICHTHYIDAE(FAMILY)	1.	100.0	7.1	5.0

TOTAL	1.	100.0	7.1	5.0
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TABLE: 223 WIND DIRECTION: 280 DEG TOW SPEED: 1 MPS
 CRUISE: WC 80-3 WIND VELOCITY: 7 MPS TYPE OF TOW: OBLIQUE
 SAMPLE NO.: 34 WAVE HEIGHT:
 DATE: 14/3/80 SWELL HEIGHT:
 VESSEL: G.B.REED SURFACE TEMP: 7.7 C GEAR TYPE: BONGO .25 M2
 POSITION: 52 00.0 N 131 09.0 W STD NUMBER:
 GRID POSITION: BT/XBT NUMBER:
 BOTTOM DEPTH: 91 M TIME OF TOW: 2220 HR VOL. FILTERED: 161 M3
 DEPTH OF TOW: 76 M DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 4.40

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0

TABLE: 224 WIND DIRECTION: 280 DEG TOW SPEED: 1 MPS
 CRUISE: WC 80-3 WIND VELOCITY: 10 MPS TYPE OF TOW: OBLIQUE
 SAMPLE NO.: 35 WAVE HEIGHT:
 DATE: 14/3/80 SWELL HEIGHT:
 VESSEL: G.B.REED SURFACE TEMP: 7.5 C GEAR TYPE: BONGO .25 M2
 POSITION: 52 00.0 N 131 12.0 W STD NUMBER:
 GRID POSITION: BT/XBT NUMBER:
 BOTTOM DEPTH: 275 M TIME OF TOW: 2255 HR VOL. FILTERED: 370 M3
 DEPTH OF TOW: 212 M DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 7.02

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M3)	CATCH (/10 M2)
	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0

TABLE: 224a
 CRUISE: WC 80-3
 SAMPLE NO.: 66
 DATE: 18/3/80
 VESSEL: G.B.REED
 POSITION: 53 00.0 N 129 47.0 W
 GRID POSITION:
 BOTTOM DEPTH: 256 M

WIND DIRECTION: 280 DEG
 WIND VELOCITY: 10 MPS
 WAVE HEIGHT:
 SWELL HEIGHT:
 SURFACE TEMP: 7.2 C
 STD NUMBER:
 BT/XBT NUMBER:
 TIME OF TOW: 1020 HR
 DEPTH OF TOW: 238 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 366 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 6.51

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0

75

TABLE: 224b
 CRUISE: WC 80-3
 SAMPLE NO.: 67
 DATE: 18/3/80
 VESSEL: G.B.REED
 POSITION: 52 30.0 N 129 48.0 W
 GRID POSITION:
 BOTTOM DEPTH: 200 M

WIND DIRECTION: 290 DEG
 WIND VELOCITY: 4 MPS
 WAVE HEIGHT:
 SWELL HEIGHT:
 SURFACE TEMP: 7.6 C
 STD NUMBER:
 BT/XBT NUMBER:
 TIME OF TOW: 1425 HR
 DEPTH OF TOW: 168 M

TOW SPEED: 1 MPS
 TYPE OF TOW: OBLIQUE
 GEAR TYPE: BONGO .25 M²
 MESH SIZE: .351 MM
 VOL. FILTERED: 335 M³
 DISP. VOLUME:
 PLANKTON CONC.:
 ALIQUOT:
 S.H.F.: 5.01

EGGS	TOTAL NUMBER	TAXA PCT.	REL. ABUN. (/1000 M ³)	CATCH (/10 M ²)
	0.0	0.0	0.0	0.0
TOTAL	0.0	0.0	0.0	0.0

