

CRUISE REPORT

Cruise Number: OM03-02

FOCI Number: 10M03

Ship:

Oshoro Maru

Area of Operations:

Bering Sea

Itinerary:

Date depart / port: July 19, 2003 / Dutch Harbor, AK

Date arrive / port: July 26, 2003 / Dutch Harbor, AK

Participating organizations:

NOAA - Alaska Fisheries Science Center (AFSC)

Chief Scientist:

Bill Rugen

M / AFSC

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Personnel:

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M / AFSC

Jay Clark

M / AFSC

Cruise Objectives:

The objective of this cruise was to continue the long-term acquisition of biological and physical data relating to the summer abundance of walleye pollock (*Theragra chalcogramma*) larvae and juveniles in the eastern Bering sea shelf region. This is a continuing cooperative research effort between FOCI and the scientists at Hokkaido University in Hakodate, Japan.

Summary of Operations:

Operation	Tows
20cm bongo (20Bon)	5
60cm bongo (60Bon)	5
CalCOFI vertical egg tow net (CalVET)	5
Methot net on Japanese trawl frame (MBT)	22

Samples Collected

	Tows	Number
Microzooplankton samples preserved in formalin (MZ)	5	5
Quantitative tow preserved in formalin (QTowF)	32	36
Rough count of pollock juveniles (RCountJ)	22	1242

Summary of Cruise:

Narrative:

Due to problems flying into Dutch Harbor, we left port about 12 hours later than expected. As a result of this we had to drop one of the stations we have historically sampled (C5). Otherwise we were able to complete all of our station objectives during the course of this cruise. Pollock juveniles were found at all but 2 stations. The abundance of small (1-2" diameter) *Aequorea* jellyfish was quite high at almost all stations, except for the ones off the shelf. The gear used, a Methot inner and outer net attached to a Japanese rigid frame, worked as expected with few exceptions. We also used 20/60 cm bongos and CalVETs. Much other physical and biological data were collected by the Japanese scientists on board using CTDs, water bottles, bongos, Norpac, Secchi discs and other gears.

Days Lost to Weather:

None

Days Lost to Equipment Failure:

None

Recommendations:

None

Acknowledgments:

The scientific party would like to acknowledge the hard work and support of the officers and crew of the Oshoro Maru. The captain, crew and scientists were once again very accommodating and helpful. Without their continuous support fulfilling our objectives would have been quite difficult. We were once again very pleased with our results and thank those aboard the Oshoro Maru and look forward to sailing on her again.

Attachments:

Table 1. Cruise Summary

Figure 1. Station Map

Cruise Statistics For FOCI Cruise 10M03 (OM03-02)

Gears Used	Tows
20cm bongo (20Bon)	5
60cm bongo (60Bon)	5
CaCOFI vertical egg tow net (CaIVET)	5
Method net on Japanese trawl frame (MBT)	22

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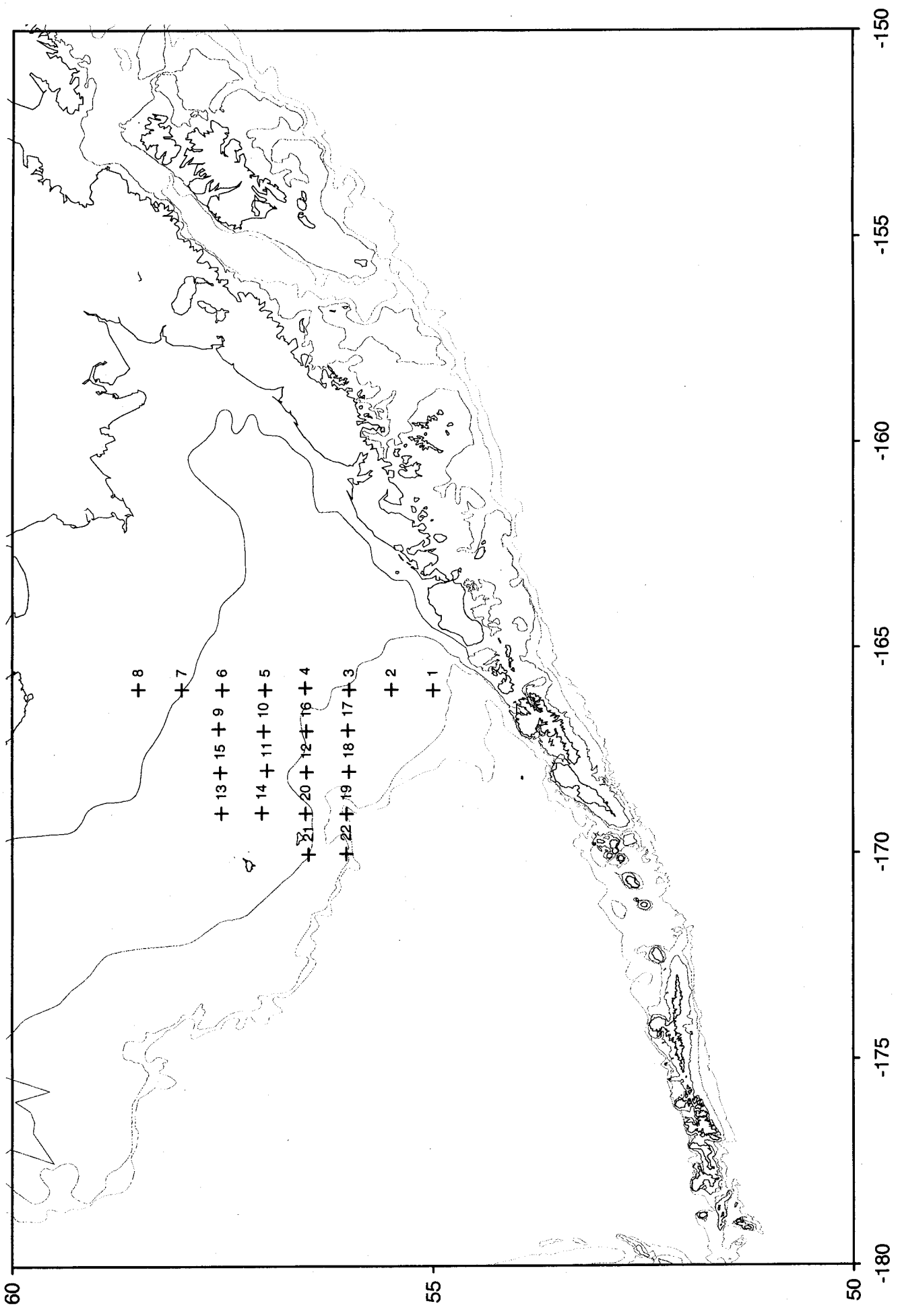
Cruise Summary For FOCI Cruise 10M03 (OM03-02)

Date (GMT)	Time (GMT)	Station	Haul	Grid	FOCI	Alternat	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
20-Jul-03	10:35	1	1	B4			137	54 59.36 N	166 01.36 W	MBT	QTowF, RCountJ	6.6 kg Chrysaora removed
20-Jul-03	15:22	2	1	C4			119	55 29.20 N	166 00.28 W	MBT	QTowF, RCountJ	1.1 kg chrysaora and 0.6 aquorea removed.
20-Jul-03	18:48	3	1	D4			111	55 59.20 N	166 00.29 W	MBT	QTowF, RCountJ	8.4 kg chrysaora (4) and .5 kg aquorea (35) removed.
21-Jul-03	12:10	4	1	E4			86	56 30.66 N	165 57.60 W	MBT	QTowF, RCountJ	8.5 kg (4) chrysaora and .2 kg other jellies removed.
21-Jul-03	12:54	4	2	E4			84	56 30.42 N	165 57.72 W	CalVET	MZ	time estimated from wireout.
21-Jul-03	13:00	4	3	E4			84	56 30.30 N	165 57.50 W	20Bon	QTowF	time estimated from wireout.
21-Jul-03	13:00	4	3	E4			84	56 30.30 N	165 57.50 W	60Bon	QTowF	
21-Jul-03	15:49	5	1	F4			70	56 59.30 N	166 00.38 W	MBT	QTowF, RCountJ	
21-Jul-03	16:32	5	2	F4			70	57 00.92 N	166 00.32 W	20Bon	QTowF	
21-Jul-03	16:32	5	2	F4			70	57 00.92 N	166 00.32 W	60Bon	QTowF	
21-Jul-03	17:18	5	3	F4			70	57 00.15 N	166 01.14 W	CalVET	MZ	Time may be low. Hard to tell when upcast begins.
21-Jul-03	20:35	6	1	G4			65	57 29.84 N	166 00.38 W	MBT	QTowF, RCountJ	1.6 kg (6) chrysaora removed.
22-Jul-03	0:05	7	1	H4			55	57 58.61 N	165 59.95 W	MBT	QTowF, RCountJ	1.7 kg jellies removed. Too numerous to
22-Jul-03	4:21	8	1	I4			42	58 29.66 N	165 59.77 W	MBT	QTowF, RCountJ	90 grams assorted small jellyfish removed.
22-Jul-03	11:11	9	1	G5			69	57 32.43 N	166 57.19 W	MBT	QTowF, RCountJ	1.3 kg (4) chrysaora removed.
22-Jul-03	15:55	10	1	F5			71	57 00.41 N	167 00.41 W	MBT	QTowF, RCountJ	10.2 kg (13) chrysaora removed.
22-Jul-03	23:17	11	1	F5			80	56 58.00 N	167 57.70 W	MBT	QTowF, RCountJ	10.9 kg (19) chrysaora and .5 kg assorted small jellyfish removed.
23-Jul-03	4:23	12	1	G6			68	56 29.76 N	168 00.13 W	MBT	QTowF, RCountJ	16 kg (21) Chrysaora and 14 kg assorted jellyfish. Too many 'small' other jellyfish to subsample or remove. Picked all fish and discarded remainder of sample.
23-Jul-03	8:00	13	1	G7			67	57 30.20 N	169 00.22 W	MBT	QTowF, RCountJ	9 kg (15) chrysaora and 10.1 kg assorted jellyfish. Too many 'small' other jellyfish to subsample or remove. Picked all fish and discarded remainder of sample.
23-Jul-03	11:23	14	1	F7			75	57 01.64 N	168 59.65 W	MBT	QTowF, RCountJ	0.2 kg (3) chrysaora removed.
23-Jul-03	20:46	15	1	E6			112	57 31.19 N	168 00.99 W	MBT	QTowF, RCountJ	0.1 kg assorted jellyfish removed.
24-Jul-03	3:02	16	1	E5			103	56 29.93 N	167 00.23 W	20Bon	QTowF	
24-Jul-03	3:02	16	1	E5			103	56 29.93 N	167 00.23 W	60Bon	QTowF	
24-Jul-03	3:08	16	2	E5			103	56 29.91 N	167 00.30 W	CalVET	MZ	
24-Jul-03	3:59	16	3	E5			104	56 29.47 N	167 00.93 W	MBT	QTowF, RCountJ	4.1 kg assorted jellyfish removed.
24-Jul-03	6:50	17	1	E6			133	56 00.02 N	166 59.18 W	20Bon	QTowF	Time estimated because watch started late.
24-Jul-03	6:50	17	1	E6			133	56 00.02 N	166 59.18 W	60Bon	QTowF	Time estimated because watch started late.
24-Jul-03	7:03	17	2	E6			133	56 00.14 N	166 59.55 W	CalVET	MZ	Time estimated because watch started late.
24-Jul-03	8:02	17	3	E6			133	56 00.65 N	167 00.98 W	MBT	QTowF, RCountJ	Time estimated because watch started late.
24-Jul-03	11:33	18	1	D6			133	55 59.39 N	167 59.43 W	20Bon	QTowF	4.6 kg assorted jellyfish removed.
24-Jul-03	11:33	18	1	D6			133	55 59.39 N	167 59.43 W	60Bon	QTowF	20bon net 2 used.

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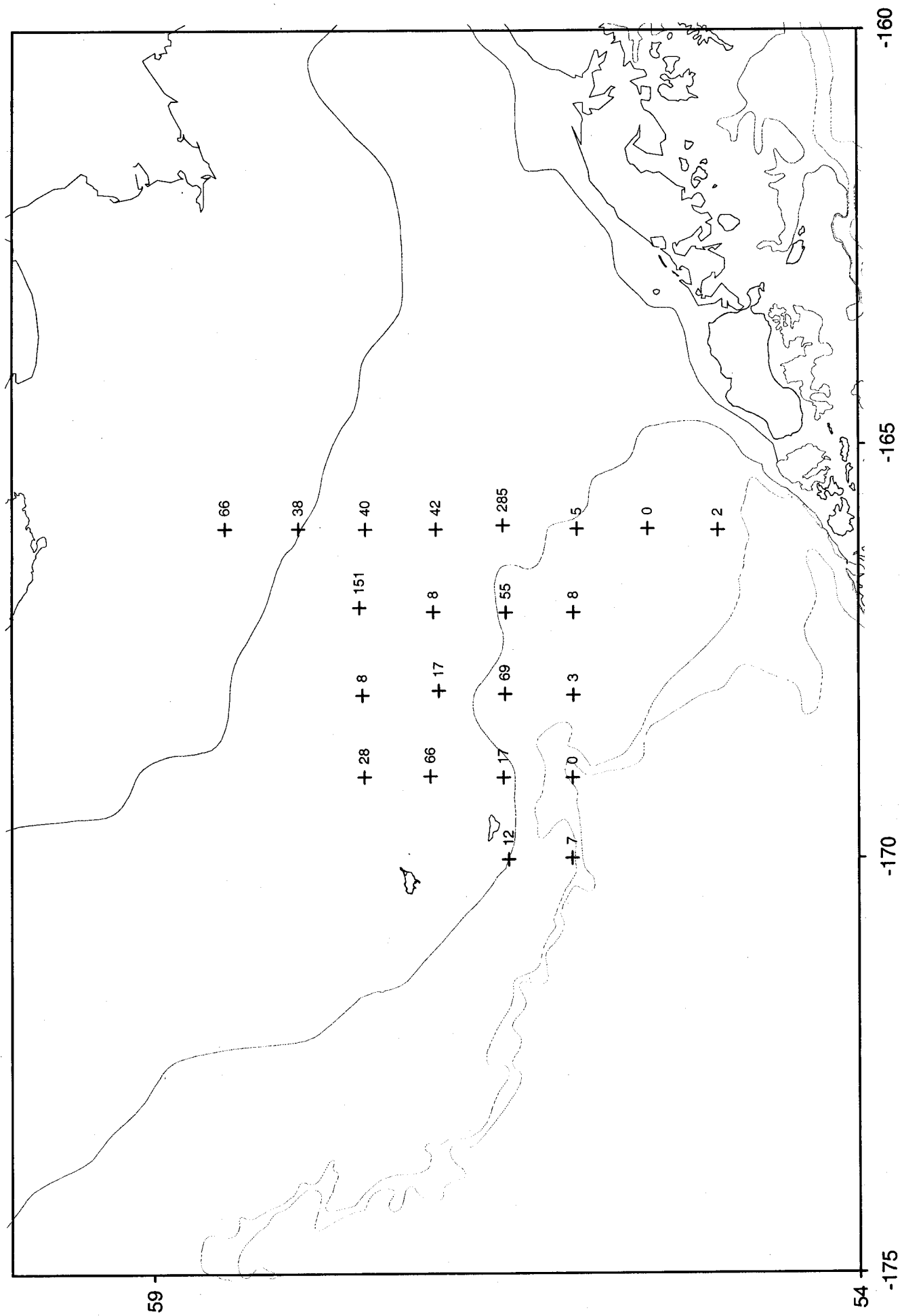
Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid	Alternat Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
24-Jul-03	12:05	18	2	D6		134	56 00.13 N	167 59.60 W	CalVET	MZ	
24-Jul-03	13:14	18	3	D6		134	56 00.65 N	168 01.15 W	MBT	QTowF, RCountJ	1.7 kg assorted removed.
25-Jul-03	0:37	19	1	D7		1317	56 00.96 N	169 01.00 W	MBT	QTowF, RCountJ	
25-Jul-03	4:57	20	1	E7		103	56 30.39 N	169 00.60 W	MBT	QTowF, RCountJ	6.5 kg assorted jellyfish removed.
25-Jul-03	10:16	21	1	E8		100	56 28.23 N	170 00.14 W	MBT	QTowF, RCountJ	
25-Jul-03	14:19	22	1	D8		135	56 01.18 N	169 59.21 W	MBT	QTowF, RCountJ	

Figure 1



10M03 Stations

Figure 2



10M03 Juvenile Rough Count (# / 10m²)