

CRUISE REPORT

Cruise Number: MF05-08

FOCI Number: 6MF05

Ship:

NOAA Ship Miller Freeman

Area of Operations:

Gulf of Alaska

Itinerary:

Date depart / port: May 21, 2005 / Dutch Harbor, AK

Date arrive / port: June 3, 2005 / Kodiak, AK

Participating organizations:

NOAA - Alaska Fisheries Science Center (AFSC)

Chief Scientist:

Annette Dougherty

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Personnel:

Morgan Busby

M / AFSC

Steve Porter

M / AFSC

Ingrid Spies

F / AFSC

Cruise Objectives:

The objectives of this cruise were to conduct an ichthyoplankton survey and process oriented studies from Unimak Pass to Kodiak Island, Alaska. We also estimated the abundance, transport, and factors influencing the survival of walleye pollock larvae. Stations on Line 8, which are a series of samples obtained using the 20/60 cm bongos and CTDBs, were conducted to monitor the environmental and biological conditions in Shelikof Strait.

Summary of Operations:

Operation	Tows
20cm bongo (20Bon)	6
60cm bongo (60Bon)	193
Seabird SeaCAT CTD (CAT)	193
CTD with bottle samples (CTDB)	8
Methot trawl (Meth)	4
ScanMar (ScanMar)	4

Samples Collected

	Tows	Number
SeaBird SeaCat CTD (CAT)	193	
Chlorophyll samples collected during CTD casts (ChIAM)	8	

Samples Collected	Tows	Number
Extracted chlorophyll (Chlor)	8	52
SeaBird CTD (CTD)	8	
Plaice samples stored in 95% ETOH for Mike Canino (FlatGene)	120	564
Stimulated fluorescence collected during CTD casts (Fluor)	8	
SAMPLES FOR KB LIPID STUDY (KBLIPID)	2	38
Larval pollock collected for otolith analysis (L-Oto)	136	1009
fresh larval pollock measurements (Lmeas)	132	949
Microzooplankton samples preserved in formalin (MZ)	8	44
Nutrient samples collected from CTD casts (Nut)	6	64
Photosynthetically Active Radiation data collected during CTD casts (PAR)	8	
Quantitative tow preserved in formalin (QTowF)	204	227
Rough count of pollock larvae (RCountL)	184	1009
ScanMar (ScanMar)	4	

Summary of Cruise:

Narrative:

The late larval walleye pollock survey in the Gulf of Alaska for 2005 consisted of 190 stations selected from a pre-planned grid. Of these 190 stations, only 47 stations did not have pollock larvae available for study. Net 1 of the 60 cm bongo were preserved as quantitative tows to be sorted for all fish larvae. Pollock larvae were removed from net 2 of the 60 cm bongo for age and growth studies as well as for fresh length measurements. The pollock larvae were measured for standard length before preservation in ethanol to obtain a length range of the fish at each station. In general, the length range of pollock increased as the survey progressed upstream towards the north of Kodiak Island.

Days Lost to Weather:

None

Days Lost to Equipment Failure:

A total of 23 hours was lost from the survey grid due to unexpected problems and repairs of the engine. The stations removed from the survey grid due to this time loss did not affect the over-all quality or viability of the research.

Recommendations:

None

Acknowledgments:

The scientific party would like to acknowledge the hard work and support of the officers and crew of **NOAA ship *Miller Freeman***. Without their help and teamwork, this survey would not have been possible. A special thank you goes to the Survey Department for timely repairs and maintenance of the gear routinely used on this survey.

Attachments:

[Table 1. Cruise Summary](#)

[Figure 1. Station Map](#)

Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
22-May-05	4:34	1	1	U1	001H1	141	54 29.11 N	165 17.94 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	4:34	1	1	U1	001H1	141	54 29.11 N	165 17.94 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	seacat data questionable
22-May-05	4:34	1	1	U1	001H1	141	54 29.11 N	165 17.94 W	CAT	CAT	
22-May-05	6:01	2	1	U2	002H1	140	54 23.99 N	165 07.18 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	6:01	2	1	U2	002H1	140	54 23.99 N	165 07.18 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	seacat data questionable
22-May-05	6:01	2	1	U2	002H1	140	54 23.99 N	165 07.18 W	CAT	CAT	
22-May-05	8:16	3	1	GD103	003H1	97	54 16.63 N	164 42.30 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	8:16	3	1	GD103	003H1	97	54 16.63 N	164 42.30 W	CAT	CAT	
22-May-05	9:52	4	1	ED101	004H1	86	54 09.63 N	164 52.38 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	9:52	4	1	ED101	004H1	86	54 09.63 N	164 52.38 W	CAT	CAT	
22-May-05	11:17	5	1	GD101	005H1	99	54 02.51 N	164 39.31 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	11:17	5	1	GD101	005H1	99	54 02.51 N	164 39.31 W	CAT	CAT	
22-May-05	12:15	5	2	GF101	005H2	98	54 02.87 N	164 39.63 W	Meth	QTowF	
22-May-05	12:15	5	2	GF101	005H2	98	54 02.87 N	164 39.63 W	ScanMar	ScanMar	
22-May-05	13:32	6	1	GF103	005H1	79	54 10.09 N	164 27.62 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	13:32	6	1	GF103	005H1	79	54 10.09 N	164 27.62 W	CAT	CAT	
22-May-05	14:47	7	1	GH103	006H1	81	54 03.23 N	164 13.03 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	14:47	7	1	GH103	006H1	81	54 03.23 N	164 13.03 W	CAT	CAT	
22-May-05	16:30	8	1	GJ105	008H1	83	54 03.33 N	163 46.09 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	16:30	8	1	GJ105	008H1	83	54 03.33 N	163 46.09 W	CAT	CAT	
22-May-05	17:45	9	1	GH105	009H1	73	54 10.20 N	164 01.29 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	17:45	9	1	GH105	009H1	73	54 10.20 N	164 01.29 W	CAT	CAT	
22-May-05	19:58	10	1	GF105	010H1	87	54 18.13 N	164 15.32 W	60Bon	FlatGene, QTowF, RCountL	
22-May-05	19:58	10	1	GF105	010H1	87	54 18.13 N	164 15.32 W	CAT	CAT	
22-May-05	21:03	11	1	GF107	011H1	106	54 24.28 N	164 03.84 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	21:03	11	1	GF107	011H1	106	54 24.28 N	164 03.84 W	CAT	CAT	
22-May-05	22:18	12	1	GH107	012H1	113	54 17.59 N	163 49.45 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
22-May-05	22:18	12	1	GH107	012H1	113	54 17.59 N	163 49.45 W	CAT	CAT	
22-May-05	22:57	12	2	GH107	012H2	113	54 17.63 N	163 48.91 W	Meth	QTowF	ATF removed from codend and measured...FL=165mm

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
22-May-05	22:57	12	2	GH107	012H2	113	54 17.63 N	163 48.91 W	ScanMar	ScanMar	ATF removed from codend and measured...FL=165mm
23-May-05	0:17	13	1	GJ107	013H1	91	54 10.99 N	163 34.93 W	60Bon	FlatGene, QTowF, RCountL	
23-May-05	0:17	13	1	GJ107	013H1	91	54 10.99 N	163 34.93 W	CAT	CAT	
23-May-05	1:34	14	1	GL107	014H1	98	54 03.89 N	163 20.44 W	60Bon	FlatGene, L-Oto, QTowF, RCountL	
23-May-05	1:34	14	1	GL107	014H1	98	54 03.89 N	163 20.44 W	CAT	CAT	
23-May-05	2:52	15	1	GL109	015H1	78	54 10.99 N	163 08.43 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
23-May-05	2:52	15	1	GL109	015H1	78	54 10.99 N	163 08.43 W	CAT	CAT	
23-May-05	4:03	16	1	GJ109	016H1	77	54 17.85 N	163 23.32 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
23-May-05	4:03	16	1	GJ109	016H1	77	54 17.85 N	163 23.32 W	CAT	CAT	
23-May-05	5:19	17	1	GH109	017H1	99	54 24.86 N	163 37.62 W	60Bon	L-Oto, QTowF, RCountL	
23-May-05	5:19	17	1	GH109	017H1	99	54 24.86 N	163 37.62 W	CAT	CAT	
23-May-05	6:34	18	1	GF109	018H1	82	54 31.84 N	163 52.49 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
23-May-05	6:34	18	1	GF109	018H1	82	54 31.84 N	163 52.49 W	CAT	CAT	
23-May-05	8:14	19	1	GH111	019H1	111	54 32.08 N	163 26.41 W	60Bon	FlatGene, QTowF, RCountL	
23-May-05	8:14	19	1	GH111	019H1	111	54 32.08 N	163 26.41 W	CAT	CAT	
23-May-05	9:33	20	1	GJ111	020H1	42	54 25.10 N	163 11.49 W	60Bon	QTowF, RCountL	
23-May-05	9:33	20	1	GJ111	020H1	42	54 25.10 N	163 11.49 W	60Bon	QTowF, RCountL	CB up
23-May-05	9:33	20	1	GJ111	020H1	42	54 25.10 N	163 11.49 W	CAT	CAT	
23-May-05	11:04	21	1	GL111	021H1	56	54 17.76 N	162 57.08 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
23-May-05	11:04	21	1	GL111	021H1	56	54 17.76 N	162 57.08 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	CB up
23-May-05	11:04	21	1	GL111	021H1	56	54 17.76 N	162 57.08 W	CAT	CAT	
23-May-05	12:14	22	1	GN111	022H1	73	54 11.34 N	162 42.38 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
23-May-05	12:14	22	1	GN111	022H1	73	54 11.34 N	162 42.38 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB up
23-May-05	12:14	22	1	GN111	022H1	73	54 11.34 N	162 42.38 W	CAT	CAT	
23-May-05	15:35	23	1	GN117	023H1	113	54 33.18 N	162 07.28 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
23-May-05	15:35	23	1	GN117	023H1	113	54 33.18 N	162 07.28 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	CB up
23-May-05	15:35	23	1	GN117	023H1	113	54 33.18 N	162 07.28 W	CAT	CAT	
23-May-05	16:51	24	1	GN119	024H1	81	54 40.46 N	161 55.55 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
23-May-05	16:51	24	1	GN119	024H1	81	54 40.46 N	161 55.55 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB up
23-May-05	16:51	24	1	GN119	024H1	81	54 40.46 N	161 55.55 W	CAT	CAT	
23-May-05	19:29	26	1	GP123	026H1	64	54 48.18 N	161 17.34 W	60Bon	FlatGene, QTowF, RCountL	
23-May-05	19:29	26	1	GP123	026H1	64	54 48.18 N	161 17.34 W	60Bon	FlatGene, QTowF, RCountL	CB up
23-May-05	19:29	26	1	GP123	026H1	64	54 48.18 N	161 17.34 W	CAT	CAT	
23-May-05	20:04	26	2	GP123	026H2	70	54 48.06 N	161 17.11 W	Meth	QTowF	CB up

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
23-May-05	20:04	26	2	GP123	026H2	70	54 48.06 N	161 17.11 W	ScanMar	ScanMar	
23-May-05	21:15	27	1	GP125	027H1	90	54 55.33 N	161 04.73 W	60Bon	QTowF, RCountL	
23-May-05	21:15	27	1	GP125	027H1	90	54 55.33 N	161 04.73 W	60Bon	QTowF, RCountL	CB up
23-May-05	21:15	27	1	GP125	027H1	90	54 55.33 N	161 04.73 W	CAT	CAT	
23-May-05	22:30	28	1	GR125	028H1	87	54 48.43 N	160 50.77 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
23-May-05	22:30	28	1	GR125	028H1	87	54 48.43 N	160 50.77 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB up
23-May-05	22:30	28	1	GR125	028H1	87	54 48.43 N	160 50.77 W	CAT	CAT	
24-May-05	23:45	29	1	GT125	029H1	96	54 41.60 N	160 36.77 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
24-May-05	23:45	29	1	GT125	029H1	96	54 41.60 N	160 36.77 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB up
24-May-05	23:45	29	1	GT125	029H1	96	54 41.60 N	160 36.77 W	CAT	CAT	
24-May-05	0:56	30	1	GV125	030H1	131	54 34.59 N	160 23.11 W	60Bon	FlatGene, QTowF, RCountL	
24-May-05	0:56	30	1	GV125	030H1	131	54 34.59 N	160 23.11 W	60Bon	FlatGene, QTowF, RCountL	CB up
24-May-05	0:56	30	1	GV125	030H1	131	54 34.59 N	160 23.11 W	CAT	CAT	
24-May-05	2:10	31	1	GV127	031H1	86	54 41.87 N	160 11.11 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
24-May-05	2:10	31	1	GV127	031H1	86	54 41.87 N	160 11.11 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB up
24-May-05	2:10	31	1	GV127	031H1	86	54 41.87 N	160 11.11 W	CAT	CAT	
24-May-05	3:27	32	1	GT127	032H1	90	54 48.85 N	160 25.04 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
24-May-05	3:27	32	1	GT127	032H1	90	54 48.85 N	160 25.04 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB up
24-May-05	3:27	32	1	GT127	032H1	90	54 48.85 N	160 25.04 W	CAT	CAT	
24-May-05	4:46	33	1	GR127	033H1	89	44 55.69 N	160 39.12 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
24-May-05	4:46	33	1	GR127	033H1	89	44 55.69 N	160 39.12 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB up
24-May-05	4:46	33	1	GR127	033H1	89	44 55.69 N	160 39.12 W	CAT	CAT	
24-May-05	6:02	34	1	GP127	034H1	86	55 02.63 N	160 53.28 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
24-May-05	6:02	34	1	GP127	034H1	86	55 02.63 N	160 53.28 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB up
24-May-05	6:02	34	1	GP127	034H1	86	55 02.63 N	160 53.28 W	CAT	CAT	
24-May-05	6:37	34	2	GP127	034H2	89	55 02.68 N	160 53.26 W	Meth	QTowF	CB up
24-May-05	6:37	34	2	GP127	034H2	89	55 02.68 N	160 53.26 W	ScanMar	ScanMar	
24-May-05	7:53	35	1	GN127	035H1	51	55 10.21 N	161 06.15 W	60Bon	QTowF, RCountL	
24-May-05	7:53	35	1	GN127	035H1	51	55 10.21 N	161 06.15 W	60Bon	QTowF, RCountL	CB up
24-May-05	7:53	35	1	GN127	035H1	51	55 10.21 N	161 06.15 W	CAT	CAT	

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
24-May-05	9:20	36	1	GL127	036H1	60	55 16.48 N	161 21.07 W	60Bon	FlatGene, QTowF, RCountL	
24-May-05	9:20	36	1	GL127	036H1	60	55 16.48 N	161 21.07 W	60Bon	FlatGene, QTowF, RCountL	CB Up
24-May-05	9:20	36	1	GL127	036H1	60	55 16.48 N	161 21.07 W	CAT	CAT	
24-May-05	10:34	37	1	B4	037H1	83	55 21.73 N	161 38.32 W	60Bon	Discard	The net hit a seamount at approximately 75m. We decided to redo this station.
24-May-05	10:34	37	1	B4	037H1	83	55 21.73 N	161 38.32 W	60Bon	Discard	The net hit a seamount at approximately 75m. We decided to redo this station. CB Up
24-May-05	10:34	37	1	B4	037H1	83	55 21.73 N	161 38.32 W	CAT	CAT	The net hit a seamount at approximately 75m. We decided to redo this station.
24-May-05	11:02	37	2	B4	037H2	63	55 21.58 N	161 37.53 W	60Bon	FlatGene, L-Oto, QTowF, RCountL	Second attempt at this station. This one was successful.
24-May-05	11:02	37	2	B4	037H2	63	55 21.58 N	161 37.53 W	60Bon	FlatGene, L-Oto, QTowF, RCountL	Second attempt at this station. This one was successful. CB Up
24-May-05	11:02	37	2	B4	037H2	63	55 21.58 N	161 37.53 W	CAT	CAT	Second attempt at this station. This one was successful.
24-May-05	13:14	38	1	B2	038H1	32	55 20.65 N	161 02.11 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
24-May-05	13:14	38	1	B2	038H1	32	55 20.65 N	161 02.11 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB Up
24-May-05	13:14	38	1	B2	038H1	32	55 20.65 N	161 02.11 W	CAT	CAT	
24-May-05	15:59	39	1	GO133	039H1	146	55 29.79 N	160 20.07 W	60Bon	QTowF, RCountL	Net down to 137m, not 100m.
24-May-05	15:59	39	1	GO133	039H1	146	55 29.79 N	160 20.07 W	60Bon	QTowF, RCountL	Net down to 137m, not 100m. CB Up
24-May-05	15:59	39	1	GO133	039H1	146	55 29.79 N	160 20.07 W	CAT	CAT	Net down to 137m, not 100m.
24-May-05	17:14	40	1	GP135	040H1	116	55 31.56 N	160 04.78 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
24-May-05	17:14	40	1	GP135	040H1	116	55 31.56 N	160 04.78 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB Up
24-May-05	17:14	40	1	GP135	040H1	116	55 31.56 N	160 04.78 W	CAT	CAT	
24-May-05	18:28	41	1	GP137	041H1	130	55 39.03 N	159 52.30 W	60Bon	FlatGene, QTowF, RCountL	
24-May-05	18:28	41	1	GP137	041H1	130	55 39.03 N	159 52.30 W	60Bon	FlatGene, QTowF, RCountL	CB Up
24-May-05	18:28	41	1	GP137	041H1	130	55 39.03 N	159 52.30 W	CAT	CAT	
24-May-05	19:56	42	1	GR135	042H1	116	55 25.04 N	159 50.83 W	60Bon	QTowF, RCountL	
24-May-05	19:56	42	1	GR135	042H1	116	55 25.04 N	159 50.83 W	60Bon	QTowF, RCountL	CB Up
24-May-05	19:56	42	1	GR135	042H1	116	55 25.04 N	159 50.83 W	CAT	CAT	
24-May-05	21:09	43	1	GT135	043H1	129	55 18.05 N	159 37.17 W	60Bon	QTowF, RCountL	
24-May-05	21:09	43	1	GT135	043H1	129	55 18.05 N	159 37.17 W	60Bon	QTowF, RCountL	CB Up
24-May-05	21:09	43	1	GT135	043H1	129	55 18.05 N	159 37.17 W	CAT	CAT	
24-May-05	23:48	44	1	GX135	044H1	73	55 04.12 N	159 09.28 W	60Bon	QTowF, RCountL	
24-May-05	23:48	44	1	GX135	044H1	73	55 04.12 N	159 09.28 W	CAT	CAT	
25-May-05	0:54	45	1	GZ135	045H1	86	54 57.27 N	158 55.72 W	60Bon	QTowF, RCountL	
25-May-05	0:54	45	1	GZ135	045H1	86	54 57.27 N	158 55.72 W	CAT	CAT	
25-May-05	2:05	46	1	HB135	046H1	100	54 50.31 N	158 41.88 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	CB Up

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
25-May-05	2:05	46	1	HB135	046H1	100	54 50.31 N	158 41.88 W	CAT	CAT	CB Up
25-May-05	4:25	47	1	GZ139	047H1	200	55 11.65 N	158 31.49 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
25-May-05	4:25	47	1	GZ139	047H1	200	55 11.65 N	158 31.49 W	CAT	CAT	
25-May-05	5:44	48	1	GX139	048H1	185	55 18.62 N	158 45.24 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
25-May-05	5:44	48	1	GX139	048H1	185	55 18.62 N	158 45.24 W	CAT	CAT	
25-May-05	7:00	49	1	GV139	049H1	161	55 25.48 N	158 59.04 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
25-May-05	7:00	49	1	GV139	049H1	161	55 25.48 N	158 59.04 W	CAT	CAT	
25-May-05	8:17	50	1	GT139	050H1	93	55 32.59 N	159 12.97 W	60Bon	QTowF, RCountL	
25-May-05	8:17	50	1	GT139	050H1	93	55 32.59 N	159 12.97 W	CAT	CAT	
25-May-05	10:32	51	1	GV143	051H1	113	55 40.16 N	158 34.90 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
25-May-05	10:32	51	1	GV143	051H1	113	55 40.16 N	158 34.90 W	CAT	CAT	
25-May-05	11:40	52	1	GX143	052H1	144	55 33.52 N	158 21.46 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
25-May-05	11:40	52	1	GX143	052H1	144	55 33.52 N	158 21.46 W	CAT	CAT	
25-May-05	12:53	53	1	GZ143	053H1	126	55 26.29 N	158 07.89 W	60Bon	FlatGene, QTowF, RCountL	
25-May-05	12:53	53	1	GZ143	053H1	126	55 26.29 N	158 07.89 W	CAT	CAT	
25-May-05	14:04	54	1	HB143	054H1	86	55 19.42 N	157 54.03 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
25-May-05	14:04	54	1	HB143	054H1	86	55 19.42 N	157 54.03 W	CAT	CAT	
25-May-05	15:15	55	1	HB141	055H1	104	55 12.10 N	158 06.02 W	60Bon	FlatGene, QTowF, RCountL	
25-May-05	15:15	55	1	HB141	055H1	104	55 12.10 N	158 06.02 W	CAT	CAT	
25-May-05	16:51	56	1	HD143	056H1	81	55 12.43 N	157 40.24 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
25-May-05	16:51	56	1	HD143	056H1	81	55 12.43 N	157 40.24 W	CAT	CAT	
25-May-05	18:44	57	1	HF147	057H1	95	55 20.23 N	157 02.75 W	60Bon	FlatGene, QTowF, RCountL	
25-May-05	18:44	57	1	HF147	057H1	95	55 20.23 N	157 02.75 W	CAT	CAT	
25-May-05	20:24	58	1	HD147	058H1	89	55 27.11 N	157 16.87 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
25-May-05	20:24	58	1	HD147	058H1	89	55 27.11 N	157 16.87 W	CAT	CAT	
25-May-05	21:26	59	1	HB147	059H1	99	55 33.97 N	157 29.95 W	60Bon	FlatGene, L-Oto, QTowF, RCountL	
25-May-05	21:26	59	1	HB147	059H1	99	55 33.97 N	157 29.95 W	CAT	CAT	
25-May-05	22:33	60	1	GZ147	060H1	137	55 40.88 N	157 43.33 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
25-May-05	22:33	60	1	GZ147	060H1	137	55 40.88 N	157 43.33 W	CAT	CAT	
25-May-05	23:44	61	1	GX147	061H1	119	55 47.88 N	157 56.93 W	60Bon	FlatGene, QTowF, RCountL	
25-May-05	23:44	61	1	GX147	061H1	119	55 47.88 N	157 56.93 W	CAT	CAT	
26-May-05	0:54	62	1	GV147	062H1	187	55 54.70 N	158 10.19 W	60Bon	QTowF, RCountL	
26-May-05	0:54	62	1	GV147	062H1	187	55 54.70 N	158 10.19 W	CAT	CAT	

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	Samples Collected	Haul Comments
26-May-05	4:13	63	1	GR151	063H1	79	56 23.05 N	158 12.70 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB up
26-May-05	4:13	63	1	GR151	063H1	79	56 23.05 N	158 12.70 W	CAT	CAT	CB up
26-May-05	5:25	64	1	GT151	064H1	112	56 15.93 N	157 58.88 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	CB Up
26-May-05	5:25	64	1	GT151	064H1	112	56 15.93 N	157 58.88 W	CAT	CAT	CB Up
26-May-05	6:34	65	1	GV151	065H1	139	56 09.09 N	157 45.33 W	60Bon	QTowF, RCountL	
26-May-05	6:34	65	1	GV151	065H1	139	56 09.09 N	157 45.33 W	CAT	CAT	
26-May-05	7:44	66	1	GX151	066H1	119	56 02.33 N	157 32.38 W	60Bon	QTowF, RCountL	
26-May-05	7:44	66	1	GX151	066H1	119	56 02.33 N	157 32.38 W	CAT	CAT	
26-May-05	8:51	67	1	GZ151	067H1	109	55 55.51 N	157 19.11 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
26-May-05	8:51	67	1	GZ151	067H1	109	55 55.51 N	157 19.11 W	CAT	CAT	
26-May-05	10:02	68	1	HB151	068H1	97	55 48.55 N	157 05.62 W	60Bon	FlatGene, QTowF, RCountL	
26-May-05	10:02	68	1	HB151	068H1	97	55 48.55 N	157 05.62 W	CAT	CAT	
26-May-05	11:15	69	1	HD151	069H1	97	55 41.67 N	156 52.23 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
26-May-05	11:15	69	1	HD151	069H1	97	55 41.67 N	156 52.23 W	CAT	CAT	
26-May-05	12:25	70	1	HF151	070H1	222	55 34.84 N	156 38.99 W	60Bon	FlatGene, QTowF, RCountL	
26-May-05	12:25	70	1	HF151	070H1	222	55 34.84 N	156 38.99 W	CAT	CAT	
26-May-05	13:42	71	1	HH151	071H1	202	55 27.84 N	156 25.31 W	60Bon	QTowF, RCountL	
26-May-05	13:42	71	1	HH151	071H1	202	55 27.84 N	156 25.31 W	CAT	CAT	
26-May-05	14:51	72	1	HH153	072H1	250	55 35.09 N	156 13.02 W	60Bon	QTowF, RCountL	
26-May-05	14:51	72	1	HH153	072H1	250	55 35.09 N	156 13.02 W	CAT	CAT	
26-May-05	16:03	73	1	HF153	073H1	241	55 41.90 N	156 26.28 W	60Bon	FlatGene, QTowF, RCountL	
26-May-05	16:03	73	1	HF153	073H1	241	55 41.90 N	156 26.28 W	CAT	CAT	
26-May-05	17:19	74	1	HD153	074H1	224	55 48.90 N	156 39.44 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
26-May-05	17:19	74	1	HD153	074H1	224	55 48.90 N	156 39.44 W	CAT	CAT	
26-May-05	18:33	75	1	HB153	075H1	151	55 55.78 N	157 52.96 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
26-May-05	18:33	75	1	HB153	075H1	151	55 55.78 N	157 52.96 W	CAT	CAT	
26-May-05	19:43	76	1	GZ153	076H1	113	56 02.67 N	157 06.59 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
26-May-05	19:43	76	1	GZ153	076H1	113	56 02.67 N	157 06.59 W	CAT	CAT	
26-May-05	20:52	77	1	GX153	077H1	154	56 09.50 N	157 19.78 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
26-May-05	20:52	77	1	GX153	077H1	154	56 09.50 N	157 19.78 W	CAT	CAT	
26-May-05	22:02	78	1	GV153	078H1	136	56 16.39 N	157 33.36 W	60Bon	QTowF, RCountL	
26-May-05	22:02	78	1	GV153	078H1	136	56 16.39 N	157 33.36 W	CAT	CAT	
26-May-05	23:10	79	1	GT153	079H1	285	56 23.23 N	157 46.88 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
26-May-05	23:10	79	1	GT153	079H1	285	56 23.23 N	157 46.88 W	CAT	CAT	
27-May-05	0:19	80	1	GT155	080H1	133	56 30.67 N	157 34.04 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
27-May-05	0:19	80	1	GT155	080H1	133	56 30.67 N	157 34.04 W	CAT	CAT	
27-May-05	1:32	81	1	GV155	081H1	62	56 23.64 N	157 21.11 W	60Bon	QTowF, RCountL	
27-May-05	1:32	81	1	GV155	081H1	62	56 23.64 N	157 21.11 W	CAT	CAT	
27-May-05	3:12	82	1	GX155	082H1	123	56 16.75 N	157 07.27 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
27-May-05	3:12	82	1	GX155	082H1	123	56 16.75 N	157 07.27 W	CAT	CAT	
27-May-05	4:26	83	1	GZ155	083H1	80	56 09.96 N	156 54.44 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
27-May-05	4:26	83	1	GZ155	083H1	80	56 09.96 N	156 54.44 W	CAT	CAT	
27-May-05	7:14	84	1	HD155	084H1	210	55 56.21 N	156 27.60 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
27-May-05	7:14	84	1	HD155	084H1	210	55 56.21 N	156 27.60 W	CAT	CAT	
27-May-05	8:46	85	1	HF155	085H1	233	55 49.24 N	156 14.54 W	60Bon	QTowF, RCountL	
27-May-05	8:46	85	1	HF155	085H1	233	55 49.24 N	156 14.54 W	CAT	CAT	
27-May-05	10:26	86	1	HH155	086H1	214	55 42.45 N	156 01.20 W	60Bon	FlatGene, L-Oto, Lmeas, QtowF, RCountL	
27-May-05	10:26	86	1	HH155	086H1	214	55 42.45 N	156 01.20 W	CAT	CAT	
27-May-05	11:51	87	1	HF157	087H1	95	55 56.66 N	156 01.75 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
27-May-05	11:51	87	1	HF157	087H1	95	55 56.66 N	156 01.75 W	CAT	CAT	
27-May-05	13:03	88	1	HD157	088H1	216	56 03.38 N	156 14.87 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
27-May-05	13:03	88	1	HD157	088H1	216	56 03.38 N	156 14.87 W	CAT	CAT	
27-May-05	14:23	89	1	HB157	089H1	232	56 10.26 N	156 28.41 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
27-May-05	14:23	89	1	HB157	089H1	232	56 10.26 N	156 28.41 W	CAT	CAT	
27-May-05	15:42	90	1	GZ157	090H1	108	56 17.00 N	156 41.50 W	60Bon	QTowF, RCountL	
27-May-05	15:42	90	1	GZ157	090H1	108	56 17.00 N	156 41.50 W	CAT	CAT	
27-May-05	16:59	91	1	GX157	091H1	122	56 24.03 N	156 54.71 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
27-May-05	16:59	91	1	GX157	091H1	122	56 24.03 N	156 54.71 W	CAT	CAT	
27-May-05	19:22	92	1	GU158	092H1	143	56 39.51 N	157 12.01 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
27-May-05	19:22	92	1	GU158	092H1	143	56 39.51 N	157 12.01 W	CAT	CAT	
27-May-05	20:29	93	1	GV159	093H1	102	56 38.24 N	156 55.81 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
27-May-05	20:29	93	1	GV159	093H1	102	56 38.24 N	156 55.81 W	CAT	CAT	
27-May-05	21:42	94	1	GX159	094H1	158	56 31.25 N	156 42.45 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
27-May-05	21:42	94	1	GX159	094H1	158	56 31.25 N	156 42.45 W	CAT	CAT	
27-May-05	22:52	95	1	GZ159	095H1	215	56 24.40 N	156 29.61 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
27-May-05	22:52	95	1	GZ159	095H1	215	56 24.40 N	156 29.61 W	CAT	CAT	
28-May-05	3:44	96	1	HB159	096H1	263	56 17.44 N	156 15.73 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
28-May-05	3:44	96	1	HB159	096H1	263	56 17.44 N	156 15.73 W	CAT	CAT	
28-May-05	5:00	97	1	HD159	097H1	232	56 10.62 N	156 02.58 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
28-May-05	5:00	97	1	HD159	097H1	232	56 10.62 N	156 02.58 W	CAT	CAT	
28-May-05	5:33	97	2	HD159	097H2	223	56 10.57 N	156 02.27 W	60Bon	KBLIPID	LIPID STUDY...NETS 1 AND 2 PICKED FOR LARVAL POLLOCK
28-May-05	5:33	97	2	HD159	097H2	223	56 10.57 N	156 02.27 W	CAT	CAT	LIPID STUDY...NETS 1 AND 2 PICKED FOR LARVAL POLLOCK
28-May-05	5:57	97	3	HD159	CTD001	230	56 10.40 N	156 01.88 W	CTDB	ChIAM, Chlor, CTD, Fluor, MZ, PAR	CTDB FOR LIPID STUDY
28-May-05	7:14	98	1	HF159	098H1	66	56 03.72 N	155 49.30 W	60Bon	QTowF, RCountL	
28-May-05	7:14	98	1	HF159	098H1	66	56 03.72 N	155 49.30 W	CAT	CAT	
28-May-05	8:49	99	1	HD161	099H1	109	56 17.91 N	155 50.52 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	8:49	99	1	HD161	099H1	109	56 17.91 N	155 50.52 W	CAT	CAT	
28-May-05	10:01	100	1	HB161	100H1	247	56 24.77 N	156 03.61 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	10:01	100	1	HB161	100H1	247	56 24.77 N	156 03.61 W	CAT	CAT	
28-May-05	11:36	101	1	GZ161	101H1	233	56 31.68 N	156 16.68 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	11:36	101	1	GZ161	101H1	233	56 31.68 N	156 16.68 W	CAT	CAT	
28-May-05	12:53	102	1	GX161	102H1	185	56 38.70 N	156 29.94 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
28-May-05	12:53	102	1	GX161	102H1	185	56 38.70 N	156 29.94 W	CAT	CAT	
28-May-05	14:04	103	1	GV161	103H1	141	56 45.40 N	156 43.34 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	14:04	103	1	GV161	103H1	141	56 45.40 N	156 43.34 W	CAT	CAT	
28-May-05	15:07	104	1	GT163	104H1	139	56 51.10 N	156 44.81 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	15:07	104	1	GT163	104H1	139	56 51.10 N	156 44.81 W	CAT	CAT	
28-May-05	16:18	105	1	GV163	105H1	76	56 52.58 N	156 30.43 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	16:18	105	1	GV163	105H1	76	56 52.58 N	156 30.43 W	CAT	CAT	
28-May-05	17:30	106	1	GX163	106H1	187	56 45.80 N	156 17.09 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	17:30	106	1	GX163	106H1	187	56 45.80 N	156 17.09 W	CAT	CAT	
28-May-05	18:44	107	1	GZ163	107H1	294	56 38.88 N	156 04.14 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	18:44	107	1	GZ163	107H1	294	56 38.88 N	156 04.14 W	CAT	CAT	
28-May-05	19:57	108	1	HB163	108H1	234	56 31.99 N	155 51.49 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	19:57	108	1	HB163	108H1	234	56 31.99 N	155 51.49 W	CAT	CAT	
28-May-05	21:09	109	1	HD163	109H1	76	56 25.16 N	155 38.31 W	60Bon	QTowF, RCountL	
28-May-05	21:09	109	1	HD163	109H1	76	56 25.16 N	155 38.31 W	CAT	CAT	
28-May-05	22:19	110	1	HD165	110H1	69	56 32.45 N	155 25.77 W	60Bon	QTowF, RCountL	
28-May-05	22:19	110	1	HD165	110H1	69	56 32.45 N	155 25.77 W	CAT	CAT	

Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
28-May-05	23:28	111	1	HB165	111H1	236	56 39.34 N	155 38.66 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
28-May-05	23:28	111	1	HB165	111H1	236	56 39.34 N	155 38.66 W	CAT	CAT	
29-May-05	0:44	112	1	GZ165	112H1	296	56 46.19 N	155 51.66 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	0:44	112	1	GZ165	112H1	296	56 46.19 N	155 51.66 W	CAT	CAT	
29-May-05	2:02	113	1	GX165	113H1	211	56 53.06 N	156 04.53 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	2:02	113	1	GX165	113H1	211	56 53.06 N	156 04.53 W	CAT	CAT	
29-May-05	3:15	114	1	GV165	114H1	76	56 59.86 N	156 18.09 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
29-May-05	3:15	114	1	GV165	114H1	76	56 59.86 N	156 18.09 W	CAT	CAT	
29-May-05	4:23	115	1	GV167	115H1	85	57 07.03 N	156 05.37 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
29-May-05	4:23	115	1	GV167	115H1	85	57 07.03 N	156 05.37 W	CAT	CAT	
29-May-05	5:29	116	1	GX167	116H1	307	57 00.10 N	155 51.98 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
29-May-05	5:29	116	1	GX167	116H1	307	57 00.10 N	155 51.98 W	CAT	CAT	
29-May-05	6:36	117	1	GZ167	117H1	282	56 53.29 N	155 38.80 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	6:36	117	1	GZ167	117H1	282	56 53.29 N	155 38.80 W	CAT	CAT	
29-May-05	7:42	118	1	HB167	118H1	237	56 46.62 N	155 26.08 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	7:42	118	1	HB167	118H1	237	56 46.62 N	155 26.08 W	CAT	CAT	
29-May-05	8:48	119	1	HD167	119H1	73	56 39.67 N	155 13.15 W	60Bon	FlatGene, QTowF, RCountL	
29-May-05	8:48	119	1	HD167	119H1	73	56 39.67 N	155 13.15 W	CAT	CAT	
29-May-05	9:54	120	1	HD169	120H1	70	56 46.96 N	155 00.49 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
29-May-05	9:54	120	1	HD169	120H1	70	56 46.96 N	155 00.49 W	CAT	CAT	
29-May-05	11:01	121	1	HB169	121H1	221	56 53.84 N	155 13.55 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
29-May-05	11:01	121	1	HB169	121H1	221	56 53.84 N	155 13.55 W	CAT	CAT	
29-May-05	12:09	122	1	GZ169	122H1	268	57 00.80 N	155 26.50 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
29-May-05	12:09	122	1	GZ169	122H1	268	57 00.80 N	155 26.50 W	CAT	CAT	
29-May-05	13:20	123	1	GX169	123H1	278	57 07.59 N	155 39.52 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	13:20	123	1	GX169	123H1	278	57 07.59 N	155 39.52 W	CAT	CAT	
29-May-05	14:32	124	1	GV169	124H1	252	57 14.40 N	155 52.83 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	14:32	124	1	GV169	124H1	252	57 14.40 N	155 52.83 W	CAT	CAT	
29-May-05	15:30	125	1	GT169	125H1	47	57 20.54 N	156 04.61 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	15:30	125	1	GT169	125H1	47	57 20.54 N	156 04.61 W	CAT	CAT	
29-May-05	16:47	126	1	GT171	126H1	115	57 27.05 N	155 45.79 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	16:47	126	1	GT171	126H1	115	57 27.05 N	155 45.79 W	CAT	CAT	

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
29-May-05	17:36	127	1	GV171	127H1	281	57 21.60 N	155 39.84 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	17:36	127	1	GV171	127H1	281	57 21.60 N	155 39.84 W	CAT	CAT	
29-May-05	18:43	128	1	GX171	128H1	260	57 14.79 N	155 26.65 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	18:43	128	1	GX171	128H1	260	57 14.79 N	155 26.65 W	CAT	CAT	
29-May-05	19:52	129	1	GZ171	129H1	241	57 07.96 N	155 14.02 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	19:52	129	1	GZ171	129H1	241	57 07.96 N	155 14.02 W	CAT	CAT	
29-May-05	21:03	130	1	HB171	130H1	152	57 01.07 N	155 01.04 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	21:03	130	1	HB171	130H1	152	57 01.07 N	155 01.04 W	CAT	CAT	
29-May-05	22:13	131	1	HD171	131H1	81	56 54.15 N	154 48.11 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
29-May-05	22:13	131	1	HD171	131H1	81	56 54.15 N	154 48.11 W	CAT	CAT	
29-May-05	23:40	132	1	HB173	132H1	77	57 08.27 N	154 48.24 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
29-May-05	23:40	132	1	HB173	132H1	77	57 08.27 N	154 48.24 W	CAT	CAT	
30-May-05	0:46	133	1	GZ173	133H1	215	57 15.23 N	155 01.00 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
30-May-05	0:46	133	1	GZ173	133H1	215	57 15.23 N	155 01.00 W	CAT	CAT	
30-May-05	1:54	134	1	GX173	134H1	245	57 22.10 N	155 14.08 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
30-May-05	1:54	134	1	GX173	134H1	245	57 22.10 N	155 14.08 W	CAT	CAT	
30-May-05	3:03	135	1	GV173	135H1	295	57 28.85 N	155 27.32 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
30-May-05	3:03	135	1	GV173	135H1	295	57 28.85 N	155 27.32 W	CAT	CAT	
30-May-05	4:33	136	1	GT173	136H1	96	57 36.98 N	155 28.38 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
30-May-05	4:33	136	1	GT173	136H1	96	57 36.98 N	155 28.38 W	CAT	CAT	
30-May-05	5:46	137	1	GV175	137H1	281	57 36.15 N	155 14.49 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
30-May-05	5:46	137	1	GV175	137H1	281	57 36.15 N	155 14.49 W	CAT	CAT	
30-May-05	7:49	138	1	GZ175	138H1	71	57 22.46 N	154 48.71 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
30-May-05	7:49	138	1	GZ175	138H1	71	57 22.46 N	154 48.71 W	CAT	CAT	
30-May-05	8:53	139	1	FOX56	039H1	212	57 31.10 N	154 46.94 W	20Bon	QTowF	
30-May-05	8:53	139	1	FOX56	039H1	212	57 31.10 N	154 46.94 W	60Bon	QTowF	
30-May-05	8:53	139	1	FOX56	039H1	212	57 31.10 N	154 46.94 W	CAT	CAT	
30-May-05	9:48	139	2	FOX56	CTDB002	214	57 31.03 N	154 46.80 W	CTDB	ChlAM, Chlor, CTD, Fluor, MZ, Nut, PAR	
30-May-05	10:49	140	1	FOX57	140H1	227	57 33.01 N	154 52.90 W	20Bon	QTowF	
30-May-05	10:49	140	1	FOX57	140H1	227	57 33.01 N	154 52.90 W	60Bon	QTowF	
30-May-05	10:49	140	1	FOX57	140H1	227	57 33.01 N	154 52.90 W	CAT	CAT	

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
30-May-05	11:36	140	2	FOX57	CTDB003	228	57 32.91 N	154 52.94 W	CTDB	ChlAM, Chlor, CTD, Fluor, MZ, Nut, PAR	
30-May-05	12:37	141	1	FOX58	141H1	237	57 36.81 N	155 00.48 W	20Bon	QTowF	
30-May-05	12:37	141	1	FOX58	141H1	237	57 36.81 N	155 00.48 W	60Bon	QTowF	
30-May-05	12:37	141	1	FOX58	141H1	237	57 36.81 N	155 00.48 W	CAT	CAT	
30-May-05	13:22	141	2	FOX58	CTDB004	237	57 36.63 N	155 00.49 W	CTDB	ChlAM, Chlor, CTD, Fluor, MZ, Nut, PAR	
30-May-05	14:24	142	1	FOX59	142H1	254	57 38.52 N	155 04.11 W	20Bon	QTowF	
30-May-05	14:24	142	1	FOX59	142H1	254	57 38.52 N	155 04.11 W	60Bon	QTowF	
30-May-05	14:24	142	1	FOX59	142H1	254	57 38.52 N	155 04.11 W	CAT	CAT	
30-May-05	15:07	142	2	FOX59	CTDB005	253	57 38.42 N	155 04.05 W	CTDB	ChlAM, Chlor, CTD, Fluor, MZ, Nut, PAR	
30-May-05	16:21	143	1	FOX60	143H1	289	57 40.94 N	155 10.22 W	20Bon	QTowF	
30-May-05	16:21	143	1	FOX60	143H1	289	57 40.94 N	155 10.22 W	60Bon	QTowF	
30-May-05	16:21	143	1	FOX60	143H1	289	57 40.94 N	155 10.22 W	CAT	CAT	
30-May-05	17:04	143	2	FOX60	CTDB006	288	57 43.34 N	155 15.53 W	CTDB	ChlAM, Chlor, CTD, Fluor, MZ, Nut, PAR	
30-May-05	18:11	144	1	FOX61	144H1	148	57 43.33 N	155 15.53 W	20Bon	QTowF	
30-May-05	18:11	144	1	FOX61	144H1	148	57 43.33 N	155 15.53 W	60Bon	QTowF	
30-May-05	18:11	144	1	FOX61	144H1	148	57 43.33 N	155 15.53 W	CAT	CAT	
30-May-05	18:46	144	2	FOX61	CTDB007	146	57 43.32 N	155 15.60 W	CTDB	ChlAM, Chlor, CTD, Fluor, MZ, Nut, PAR	
30-May-05	19:51	145	1	GV177	145H1	274	57 43.23 N	155 01.79 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
30-May-05	19:51	145	1	GV177	145H1	274	57 43.23 N	155 01.79 W	CAT	CAT	
30-May-05	20:57	146	1	GX177	146H1	220	57 36.35 N	154 48.69 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
30-May-05	20:57	146	1	GX177	146H1	220	57 36.35 N	154 48.69 W	CAT	CAT	
31-May-05	19:19	147	1	GX179	147H1	217	57 43.99 N	154 35.51 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
31-May-05	19:19	147	1	GX179	147H1	217	57 43.99 N	154 35.51 W	CAT	CAT	
31-May-05	22:20	148	1	GV179	148H1	277	57 50.52 N	154 48.99 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
31-May-05	22:20	148	1	GV179	148H1	277	57 50.52 N	154 48.99 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	1 Chrysoara jelly removedm from net 1
31-May-05	22:20	148	1	GV179	148H1	277	57 50.52 N	154 48.99 W	CAT	CAT	
31-May-05	23:58	149	1	GX181	149H1	213	57 50.90 N	154 23.02 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
31-May-05	23:58	149	1	GX181	149H1	213	57 50.90 N	154 23.02 W	CAT	CAT	
01-Jun-05	1:07	150	1	GZ181	150H1	55	57 44.15 N	154 09.75 W	60Bon	QTowF, RCountL	
01-Jun-05	1:07	150	1	GZ181	150H1	55	57 44.15 N	154 09.75 W	CAT	CAT	
01-Jun-05	2:13	151	1	GZ183	151H1	181	57 51.29 N	153 56.86 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	2:13	151	1	GZ183	151H1	181	57 51.29 N	153 56.86 W	CAT	CAT	

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
01-Jun-05	3:29	152	1	GX183	152H1	208	57 58.44 N	154 09.84 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	3:29	152	1	GX183	152H1	208	57 58.44 N	154 09.84 W	CAT	CAT	
01-Jun-05	4:38	153	1	GX185	153H1	201	58 05.61 N	153 56.36 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	4:38	153	1	GX185	153H1	201	58 05.61 N	153 56.36 W	CAT	CAT	
01-Jun-05	5:50	154	1	GZ185	154H1	193	57 58.76 N	153 43.67 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	5:50	154	1	GZ185	154H1	193	57 58.76 N	153 43.67 W	CAT	CAT	
01-Jun-05	6:22	154	2	GZ185	154H2	193	57 58.72 N	153 43.86 W	60Bon	KBLIPID	KBLipid Study...low algae
01-Jun-05	6:22	154	2	GZ185	154H2	193	57 58.72 N	153 43.86 W	CAT	CAT	KBLipid Study...low algae
01-Jun-05	6:44	154	3	GZ185	CTDB008	191	57 58.67 N	153 43.69 W	CTDB	Chlor, CTD, Fluor, MZ, PAR	
01-Jun-05	8:44	155	1	GZ189	155H1	206	58 13.32 N	153 17.92 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	8:44	155	1	GZ189	155H1	206	58 13.32 N	153 17.92 W	CAT	CAT	
01-Jun-05	9:53	156	1	GX189	156H1	170	58 20.16 N	153 30.56 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	9:53	156	1	GX189	156H1	170	58 20.16 N	153 30.56 W	CAT	CAT	
01-Jun-05	11:05	157	1	GV189	157H1	145	58 27.20 N	153 43.39 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	11:05	157	1	GV189	157H1	145	58 27.20 N	153 43.39 W	CAT	CAT	
01-Jun-05	13:04	158	1	GV193	158H1	96	58 41.32 N	153 16.99 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	13:04	158	1	GV193	158H1	96	58 41.32 N	153 16.99 W	CAT	CAT	
01-Jun-05	14:09	159	1	GX193	159H1	163	58 34.49 N	153 04.11 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	14:09	159	1	GX193	159H1	163	58 34.49 N	153 04.11 W	CAT	CAT	
01-Jun-05	15:15	160	1	GZ193	160H1	53	58 27.62 N	152 51.74 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	15:15	160	1	GZ193	160H1	53	58 27.62 N	152 51.74 W	CAT	CAT	
01-Jun-05	17:32	161	1	GZ197	161H1	167	58 42.29 N	152 25.19 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	17:32	161	1	GZ197	161H1	167	58 42.29 N	152 25.19 W	CAT	CAT	
01-Jun-05	18:37	162	1	GX197	162H1	201	58 49.09 N	152 37.70 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	18:37	162	1	GX197	162H1	201	58 49.09 N	152 37.70 W	CAT	CAT	
01-Jun-05	19:46	163	1	GV197	163H1	176	58 56.32 N	152 50.36 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	19:46	163	1	GV197	163H1	176	58 56.32 N	152 50.36 W	CAT	CAT	
01-Jun-05	20:56	164	1	GT197	164H1	144	59 02.89 N	153 02.72 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
01-Jun-05	20:56	164	1	GT197	164H1	144	59 02.89 N	153 02.72 W	CAT	CAT	
01-Jun-05	22:21	165	1	KE001	165H1	64	59 11.77 N	153 10.94 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
01-Jun-05	22:21	165	1	KE001	165H1	64	59 11.77 N	153 10.94 W	CAT	CAT	
02-Jun-05	0:17	166	1	KE002	166H1	67	59 26.89 N	152 48.09 W	60Bon	FlatGene, QTowF, RCountL	
02-Jun-05	0:17	166	1	KE002	166H1	67	59 26.89 N	152 48.09 W	CAT	CAT	
02-Jun-05	1:19	167	1	KE003	167H1	69	59 18.71 N	152 35.82 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	1:19	167	1	KE003	167H1	69	59 18.71 N	152 35.82 W	CAT	CAT	
02-Jun-05	2:25	168	1	GV201	168H1	97	59 10.57 N	152 23.50 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	2:25	168	1	GV201	168H1	97	59 10.57 N	152 23.50 W	CAT	CAT	
02-Jun-05	3:34	169	1	GX201	169H1	141	59 03.75 N	152 11.36 W	60Bon	Discard	NET 2 CODEND BROKEN...TOW REDONE
02-Jun-05	3:34	169	1	GX201	169H1	141	59 03.75 N	152 11.36 W	CAT	CAT	NET 2 CODEND BROKEN...TOW REDONE
02-Jun-05	3:55	169	2	GX201	169H1	137	59 04.04 N	152 11.69 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	3:55	169	2	GX201	169H1	137	59 04.04 N	152 11.69 W	CAT	CAT	
02-Jun-05	6:35	170	1	HB199	170H1	141	58 42.74 N	151 59.32 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	6:35	170	1	HB199	170H1	141	58 42.74 N	151 59.32 W	CAT	CAT	
02-Jun-05	7:40	171	1	HB201	171H1	117	58 50.05 N	151 46.46 W	60Bon	FlatGene, QTowF, RCountL	
02-Jun-05	7:40	171	1	HB201	171H1	117	58 50.05 N	151 46.46 W	CAT	CAT	
02-Jun-05	8:48	172	1	HB203	172H1	93	58 57.26 N	151 33.07 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	8:48	172	1	HB203	172H1	93	58 57.26 N	151 33.07 W	CAT	CAT	
02-Jun-05	9:48	173	1	HB205	173H1	43	59 03.99 N	151 19.33 W	60Bon	QTowF, RCountL	
02-Jun-05	9:48	173	1	HB205	173H1	43	59 03.99 N	151 19.33 W	CAT	CAT	
02-Jun-05	10:44	174	1	HD205	174H1	171	58 57.55 N	151 07.43 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	10:44	174	1	HD205	174H1	171	58 57.55 N	151 07.43 W	CAT	CAT	
02-Jun-05	11:58	175	1	HD203	175H1	126	58 50.25 N	151 20.28 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	11:58	175	1	HD203	175H1	126	58 50.25 N	151 20.28 W	CAT	CAT	
02-Jun-05	13:11	176	1	HD201	176H1	171	58 43.03 N	151 33.71 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	13:11	176	1	HD201	176H1	171	58 43.03 N	151 33.71 W	CAT	CAT	
02-Jun-05	14:24	177	1	HD199	177H1	168	58 35.68 N	151 46.90 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	14:24	177	1	HD199	177H1	168	58 35.68 N	151 46.90 W	CAT	CAT	
02-Jun-05	15:33	178	1	HD197	178H1	99	58 28.44 N	152 00.19 W	60Bon	QTowF, RCountL	
02-Jun-05	15:33	178	1	HD197	178H1	99	58 28.44 N	152 00.19 W	CAT	CAT	
02-Jun-05	16:37	179	1	HF197	179H1	58	58 22.16 N	151 47.08 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	16:37	179	1	HF197	179H1	58	58 22.16 N	151 47.08 W	CAT	CAT	
02-Jun-05	17:39	180	1	HF199	180H1	162	58 28.86 N	151 34.67 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	

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Cruise Summary For FOCI Cruise 6MF05 (MF05-08)

Date (GMT)	Time (GMT)	Station	Hau	FOCI Grid	Alternate Station	Depth (m)	Latitude	Longitude	Gear	SamplesCollected	HaulComments
02-Jun-05	17:39	180	1	HF199	180H1	162	58 28.86 N	151 34.67 W	CAT	CAT	
02-Jun-05	18:44	181	1	HF201	181H1	162	58 36.03 N	151 21.57 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	18:44	181	1	HF201	181H1	162	58 36.03 N	151 21.57 W	CAT	CAT	
02-Jun-05	19:52	182	1	HF203	182H1	174	58 43.36 N	151 08.62 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
02-Jun-05	19:52	182	1	HF203	182H1	174	58 43.36 N	151 08.62 W	CAT	CAT	
02-Jun-05	20:59	183	1	HF205	183H1	153	58 50.64 N	150 55.29 W	60Bon	QTowF, RCountL	
02-Jun-05	20:59	183	1	HF205	183H1	153	58 50.64 N	150 55.29 W	CAT	CAT	
02-Jun-05	22:01	184	1	HH205	184H1	190	58 43.88 N	150 42.72 W	60Bon	QTowF, RCountL	
02-Jun-05	22:01	184	1	HH205	184H1	190	58 43.88 N	150 42.72 W	CAT	CAT	
02-Jun-05	23:13	185	1	HH203	185H1	189	58 36.62 N	150 55.96 W	60Bon	FlatGene, QTowF, RCountL	
02-Jun-05	23:13	185	1	HH203	185H1	189	58 36.62 N	150 55.96 W	CAT	CAT	
03-Jun-05	0:21	186	1	HH201	186H1	93	58 29.28 N	151 09.09 W	60Bon	L-Oto, Lmeas, QTowF, RCountL	
03-Jun-05	0:21	186	1	HH201	186H1	93	58 29.28 N	151 09.09 W	CAT	CAT	
03-Jun-05	1:29	187	1	HH199	187H1	120	58 21.98 N	151 22.13 W	60Bon	FlatGene, QTowF, RCountL	
03-Jun-05	1:29	187	1	HH199	187H1	120	58 21.98 N	151 22.13 W	CAT	CAT	
03-Jun-05	6:26	188	1	HH197	188H1	70	58 14.92 N	151 35.44 W	60Bon	FlatGene, L-Oto, Lmeas, QTowF, RCountL	
03-Jun-05	6:26	188	1	HH197	188H1	70	58 14.92 N	151 35.44 W	CAT	CAT	
03-Jun-05	7:34	189	1	HH195	189H1	71	58 07.52 N	151 48.49 W	60Bon	QTowF, RCountL	
03-Jun-05	7:34	189	1	HH195	189H1	71	58 07.52 N	151 48.49 W	CAT	CAT	
03-Jun-05	8:40	190	1	HH193	190H1	163	58 00.31 N	152 01.40 W	60Bon	FlatGene, QTowF, RCountL	
03-Jun-05	8:40	190	1	HH193	190H1	163	58 00.31 N	152 01.40 W	CAT	CAT	

