

CRUISE REPORT

Cruise No: WE97-06c
FOCI Number: 4WE97
OSU Ship: WECOMA

Area of Operations: Southeast Bering Sea

Itinerary:

Depart	Dutch Harbor	June 29
Arrive	St. Paul	July 14

Participating organizations:

NOAA - Alaska Fisheries Science Center (AFSC)
NOAA - Pacific Marine Environmental Laboratory (PMEL)
UCI - University of California, Irvine
OSU - Oregon State University
UW - University of Washington

Chief Scientist:

Matthew T. Wilson AFSC

Personnel:

Matthew Wilson	AFSC
Chris Baier	AFSC
Lisa Britt	AFSC
Lorenzo Ciannelli	UW
Jay Clark	AFSC
Jeremy Higgins	PMEL
Don Michaelson	OSU
Sarah Pautzke	AFSC
Steve Porter	AFSC
Sigrid Salo	PMEL
Gregg Savage	U of C-Irvine

CRUISE OBJECTIVES:

- 1) Continue acquisition of long-term biological and physical time series,
- 2) Conduct acoustic and trawl survey of juvenile walleye pollock for examining distributions in relation to hydrographic fronts,
- 3) Collect samples of juvenile pollock for studies of growth, feeding, pathology, and condition,
- 4) Examine vertical distribution of pollock and other biota using nets.

5) Examine distribution and feeding of seabird and marine mammal predators in the vicinity of the Pribilof Islands,

6) Examine jellyfish distribution and size composition.

Cruise Summary:

a) Proceeded to southern end of “Z” transect (Fig. 1) and began CTD/bongo stations. This sampling consisted of CTD casts including PAR transmissometer, fluorometer, and water samples for chlorophyll and nutrient (nitrates, nitrites, silicates, and phosphates). Bongo net sampling was accomplished using 20 cm and 60 cm frames fished on the same wire. The mesh size of the net on the 20 cm and 60 cm frames was 153 and 333 microns, respectively. Sample depths were dependent on bottom depth and location (Table 1). Note that additional sampling was done around each mooring located along this transect.

b) After the “Z” transect, we conducted CTD/bongo sampling along Line A but this was interrupted for about six hours to take advantage of nighttime to do the acoustic pass (Simrad 120 kHz, split-beam, towed-body) (Table 1) (Fig. 2). Some of the CTD/bongo stations were re-sampled to make check the consistency of the temperature and salinity profiles. Based on temperature profiles, one station was selected from each of three areas: inshore, at, or offshore of the front between stratified and unstratified water. At each of these stations, a Methot net (2x3 mm oval mesh) was fished obliquely throughout the water column to collect small fishes and large zooplankton. The Methot net was equipped with a large Clarke-Bumpus net (153 microns) to collect potential prey of age-0 pollock. Subsequent passes along Line A were made to collect acoustic data during the daytime and Methot samples at night. Tucker trawls were also fished at each of the three select stations where time permitted. Observations of bird species and abundance were made during the daytime acoustic transect.

c) Proceeded to Line B, Line C, and Line D (Fig. 1) and continued physical, acoustical and biological sampling as before. Sampling at the Canyon Transport stations (CTD/bongo) was also accomplished. Line D was extended south, almost doubling its length, and three stations were added at the request of the bird biologist.

d) With some time remaining, we returned to Line A and repeated the CTD stations, and the day and night acoustic, Methot and Tucker sampling.

e) Air temperature and humidity were measured every 4 hrs for the duration of the cruise. Also, the on-board data acquisition system recorded flow-through measurements of sea surface condition (temperature, salinity, chlorophyll) every 60 s for the duration of the cruise except during acoustic transects. The data acquisition system was turned off during acoustic transects due to contamination of the acoustic data via the GPS cable.

APPENDICES

Table 1. Cruise Summary

Table 2. Cruise Statistics

Figure 1. Plot of all stations sampled.

Figure 2. Plot of stations sampled in the vicinity of the Pribilof Islands.

4WE97/W9706C Cruise Statistics

Gears	number	
Bongos, 20 cm	66	
Bongos, 60 cm	66	
CTD casts	100	
Fluorescence traces	100	
Methot trawls	33	
Modified Clarke Bumpus (10 in) tows	32	
Photosynthetically Active Radiation	88	
Seacat CTD casts	66	
Tucker trawl, 1 m2	25	
EY500 Transects	12	

Samples	casts/hauls	# collected
Chlorophylls	68	398
Juvenile pollock genetics	27	1019
Nutrients	68	331
jellywgt	27	143650
belldiam	27	151
Hoffmac	3	3

Table xxx W9706C CRUISE SUMMARY
FOCI CRUISE 4WE97

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
1-Jul	11:11	1	1		CTD001	635	53° 21:52'	168° 41:97'	CTDB	Discard	bottles didn't trip. NOTE: All bottom depths >150m are estimated from pinger
1-Jul	13:08	1	2		CTD002	635	53° 21:50'	168° 42:00'	CTDB	Chlor,CTD,Fluor,Nut	2 minutes @ surface while positioning boom
1-Jul	14:16	1	3			635	53° 21:47'	168° 42:51'	20Bon	QTowF	2 minutes @ surface while positioning boom
1-Jul	14:16	1	3			635	53° 21:47'	168° 42:51'	60Bon	QTowF	2 minutes @ surface while positioning boom
1-Jul	14:16	1	3			635	53° 21:47'	168° 42:51'	CAT	CAT	
1-Jul	15:45	2	1	M6	CTD003	945	53° 26:01'	168° 45:98'	CTDB	Chlor,CTD,Fluor,Nut	
1-Jul	16:42	2	2	M6		945	53° 26:12'	168° 46:44'	20Bon	QTowF	
1-Jul	16:42	2	2	M6		945	53° 26:12'	168° 46:44'	60Bon	Hoffmac,QTowF	
1-Jul	16:42	2	2	M6		945	53° 26:12'	168° 46:44'	CAT	CAT	
1-Jul	19:24	3	1		CTD004	1850	53° 31:01'	168° 54:96'	CTDB	Chlor,CTD,Fluor,Nut	
1-Jul	20:26	3	2			385	53° 30:92'	168° 55:42'	20Bon	QTowF	
1-Jul	20:26	3	2			385	53° 30:92'	168° 55:42'	60Bon	Hoffmac,QTowF	
1-Jul	20:26	3	2			385	53° 30:92'	168° 55:42'	CAT	CAT	
1-Jul	22:21	4	1		CTD005	2030	53° 35:99'	169° 03:98'	CTD	CTD,Fluor	
2-Jul	0:51	5	1		CTD006	1610	53° 47:01'	169° 15:99'	CTD	CTD,Fluor	
2-Jul	3:48	6	1		CTD007	1825	54° 02:00'	169° 34:00'	CTD	CTD,Fluor	
2-Jul	6:53	7	1		CTD008	1880	54° 20:01'	169° 49:97'	CTD	CTD,Fluor	
2-Jul	10:41	8	1		CTD009	2000	54° 40:00'	169° 11:96'	CTD	CTD,Fluor	
2-Jul	14:00	9	1		CTD010	2000	54° 58:01'	168° 45:00'	CTD	CTD,Fluor	
2-Jul	16:08	10	1		CTD011	1800	55° 07:01'	168° 28:98'	CTD	CTD,Fluor	
2-Jul	17:03	10	2		CTD012	1800	55° 07:06'	168° 28:70'	CTDB	Chlor,CTD,Fluor,Nut	bottle misfire - redo on next cast
2-Jul	17:41	10	3			1800	55° 06:68'	168° 28:57'	20Bon	QTowF	
2-Jul	17:41	10	3			1800	55° 06:68'	168° 28:57'	60Bon	QTowF	
2-Jul	17:41	10	3			1800	55° 06:68'	168° 28:57'	CAT	CAT	
2-Jul	19:56	11	1		CTD013	1470	55° 20:50'	168° 15:19'	CTDB	Chlor,CTD,Fluor,Nut	
2-Jul	20:43	11	2			1470	55° 20:57'	168° 15:14'	20Bon	QTowF	
2-Jul	20:43	11	2			1470	55° 20:57'	168° 15:14'	60Bon	QTowF	
2-Jul	20:43	11	2			1470	55° 20:57'	168° 15:14'	CAT	CAT	
2-Jul	21:44	12	1		CTD014	504	55° 22:31'	168° 10:50'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
2-Jul	22:24	12	2			504	55° 22:22'	168° 10:37'	20Bon	QTowF	
2-Jul	22:24	12	2			504	55° 22:22'	168° 10:37'	60Bon	Hoffmac,QTowF	
2-Jul	22:24	12	2			504	55° 22:22'	168° 10:37'	CAT	CAT	
2-Jul	23:30	13	1		CTD015	210	55° 25:75'	168° 04:44'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
3-Jul	0:08	13	2			210	55° 25:84'	168° 04:44'	20Bon	QTowF	
3-Jul	0:08	13	2			210	55° 25:84'	168° 04:44'	60Bon	QTowF	
3-Jul	0:08	13	2			210	55° 25:84'	168° 04:44'	CAT	CAT	
3-Jul	1:39	14	1		CTD016	142	55° 33:01'	167° 46:00'	CTD	CTD,Fluor,PAR	
3-Jul	2:56	15	1		CTD017	137	55° 39:00'	167° 30:01'	CTD	CTD,Fluor,PAR	
3-Jul	4:25	16	1		CTD018	137	55° 45:99'	167° 10:00'	CTD	CTD,Fluor,PAR	

Table xxx W9706C CRUISE SUMMARY
FOCI CRUISE 4WE97

30 JUN - 14 JUL 1997

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
3-Jul	5:47	17	1		CTD019	134	55° 53.99'	166° 54.01'	CTD	CTD,Fluor,PAR	
3-Jul	7:08	18	1		CTD020	130	55° 58.99'	166° 35.03'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
3-Jul	7:28	18	2			130	55° 59.13'	166° 34.93'	20Bon	QToF	
3-Jul	7:28	18	2			130	55° 59.13'	166° 34.93'	60Bon	J-Genet,QToF	
3-Jul	7:28	18	2			130	55° 59.13'	166° 34.93'	CAT	CAT	
3-Jul	9:07	19	1		CTD021	110	56° 12.50'	166° 29.99'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
3-Jul	9:32	19	2			110	56° 12.49'	166° 30.17'	20Bon	QToF	
3-Jul	9:32	19	2			110	56° 12.49'	166° 30.17'	60Bon	J-Genet,QToF	
3-Jul	9:32	19	2			110	56° 12.49'	166° 30.17'	CAT	CAT	
3-Jul	11:07	20	1	M3	CTD022	81	56° 03.08'	166° 19.49'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
3-Jul	11:38	20	2	M3	CTD024	87	56° 03.08'	166° 19.50'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
3-Jul	12:02	20	3	M3		87	56° 03.06'	166° 19.28'	20Bon	QToF	
3-Jul	12:02	20	3	M3		87	56° 03.06'	166° 19.28'	60Bon	J-Genet,QToF	
3-Jul	12:02	20	3	M3		87	56° 03.06'	166° 19.28'	CAT	CAT	
3-Jul	13:16	21	1		CTD025	58	55° 55.01'	166° 09.98'	CTDB	Chlor,CTD,Fluor,Nut,PAR	no CTD023; accidentally skipped
3-Jul	13:40	21	2			80	55° 54.84'	166° 09.67'	20Bon	QToF	incorrect bottom depth given by bridge (actual 130m)
3-Jul	13:40	21	2			80	55° 54.84'	166° 09.67'	60Bon	J-Genet,QToF	incorrect bottom depth from bridge (actual 130m)
3-Jul	13:40	21	2			80	55° 54.84'	166° 09.67'	CAT	CAT	incorrect bottom depth from bridge (actual 130m)
3-Jul	15:18	22	1		CTD026	110	56° 09.99'	166° 06.01'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
3-Jul	15:46	22	2			108	56° 09.95'	166° 05.34'	20Bon	QToF	
3-Jul	15:46	22	2			108	56° 09.95'	166° 05.34'	60Bon	J-Genet,QToF	
3-Jul	15:46	22	2			108	56° 09.95'	166° 05.34'	CAT	CAT	
3-Jul	17:11	23	1		CTD027	90	56° 16.30'	165° 46.34'	CTD	CTD,Fluor,PAR	
3-Jul	18:43	24	1		CTD028	80	56° 23.37'	165° 23.46'	CTD	CTD,Fluor,PAR	
3-Jul	20:19	25	1		CTD029	70	56° 30.50'	164° 59.92'	CTD	CTD,Fluor,PAR	
3-Jul	21:58	26	1		CTD030	72	56° 37.71'	164° 36.30'	CTD	CTD,Fluor,PAR	
3-Jul	23:19	27	1		CTD031	70	56° 46.00'	164° 20.01'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
3-Jul	23:38	27	2			77	56° 46.19'	164° 20.42'	20Bon	QToF	
3-Jul	23:38	27	2			77	56° 46.19'	164° 20.42'	60Bon	J-Genet,QToF	
3-Jul	23:38	27	2			77	56° 46.19'	164° 20.42'	CAT	CAT	
4-Jul	1:17	28	1		CTD032	70	56° 43.89'	163° 53.01'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
4-Jul	1:35	28	2			73	56° 43.86'	163° 52.59'	20Bon	QToF	
4-Jul	1:35	28	2			73	56° 43.86'	163° 52.59'	60Bon	J-Genet,QToF	
4-Jul	1:35	28	2			73	56° 43.86'	163° 52.59'	CAT	CAT	
4-Jul	2:46	29	1	M2	CTD033	72	56° 52.41'	164° 03.20'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
4-Jul	3:18	29	2	M2	CTD034	73	56° 52.40'	164° 03.21'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
4-Jul	3:38	29	3	M2		72	56° 52.46'	164° 03.00'	20Bon	QToF	
4-Jul	3:38	29	3	M2		72	56° 52.46'	164° 03.00'	60Bon	J-Genet,QToF	
4-Jul	3:38	29	3	M2		72	56° 52.46'	164° 03.00'	CAT	CAT	
4-Jul	4:39	30	1		CTD035	70	56° 56.50'	163° 49.97'	CTDB	Chlor,CTD,Fluor,Nut,PAR	

Table xxx W9706C CRUISE SUMMARY
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30 JUN - 14 JUL 1997

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
4-Jul	4:55	30	2			70	56° 56.65'	163° 49.44'	20Bon	QToWF	
4-Jul	4:55	30	2			70	56° 56.65'	163° 49.44'	60Bon	J-Genet,QToWF	
4-Jul	4:55	30	2			70	56° 56.65'	163° 49.44'	CAT	CAT	
4-Jul	6:30	31	1	CTD036		68	57° 00.99'	164° 12.99'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
4-Jul	6:46	31	2			68	57° 01.11'	164° 12.80'	20Bon	QToWF	
4-Jul	6:46	31	2			68	57° 01.11'	164° 12.80'	60Bon	J-Genet,QToWF	
4-Jul	6:46	31	2			68	57° 01.11'	164° 12.80'	CAT	CAT	
4-Jul	9:25	32	1	CTD037		68	57° 06.99'	164° 59.98'	CTD	CTD,Fluor,PAR	
4-Jul	12:33	33	1	CTD038		66	57° 25.01'	165° 52.03'	CTD	CTD,Fluor,PAR	
4-Jul	15:16	34	1	CTD039		70	57° 32.00'	166° 43.99'	CTD	CTD,Fluor,PAR	
4-Jul	18:03	35	1	CTD040		72	57° 38.02'	167° 37.00'	CTD	CTD,Fluor,PAR	
4-Jul	20:45	36	1	CTD041		71	57° 46.02'	168° 28.06'	CTD	CTD,Fluor,PAR	
4-Jul	22:25	37	1	CTD042	M4	71	57° 51.24'	168° 54.11'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
4-Jul	22:43	37	2		M4	71	57° 51.41'	168° 54.15'	20Bon	QToWF	
4-Jul	22:43	37	2		M4	71	57° 51.41'	168° 54.15'	60Bon	J-Genet,QToWF	
4-Jul	22:43	37	2		M4	71	57° 51.41'	168° 54.15'	CAT	CAT	
4-Jul	23:12	37	3		M4	71	57° 51.29'	168° 54.14'	20Bon	QToWF	
4-Jul	23:12	37	3		M4	71	57° 51.29'	168° 54.14'	60Bon	J-Genet,QToWF	
4-Jul	23:12	37	3		M4	71	57° 51.29'	168° 54.14'	CAT	CAT	
4-Jul	23:43	37	4		M4	71	57° 51.41'	168° 54.14'	20Bon	QToWF	
4-Jul	23:43	37	4		M4	71	57° 51.41'	168° 54.14'	60Bon	J-Genet,QToWF	
4-Jul	23:43	37	4		M4	71	57° 51.41'	168° 54.14'	CAT	CAT	
5-Jul	1:04	38	1	CTD043		66	57° 52.01'	169° 18.01'	CTD	CTD,Fluor,PAR	
5-Jul	5:01	39	1	CTD044	A5	55	57° 20.93'	170° 08.07'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	5:18	39	2		A5	58	57° 20.92'	170° 08.28'	20Bon	QToWF	
5-Jul	5:18	39	2		A5	58	57° 20.92'	170° 08.28'	60Bon	J-Genet,QToWF	
5-Jul	5:50	40	1	CTD045		54	57° 19.44'	170° 08.47'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	6:07	40	2		A6	54	57° 19.46'	170° 08.58'	20Bon	QToWF	
5-Jul	6:07	40	2		A6	54	57° 19.46'	170° 08.58'	60Bon	J-Genet,QToWF	
5-Jul	6:07	40	2		A6	54	57° 19.46'	170° 08.58'	CAT	CAT	
5-Jul	6:29	41	1	CTD046		50	57° 18.52'	170° 09.38'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	6:41	41	2		A7	50	57° 18.49'	170° 09.46'	20Bon	QToWF	
5-Jul	6:41	41	2		A7	50	57° 18.49'	170° 09.46'	60Bon	QToWF	
5-Jul	6:41	41	2		A7	50	57° 18.49'	170° 09.46'	CAT	CAT	
5-Jul	7:05	42	1	CTD047		38	57° 17.26'	170° 10.12'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	7:17	42	2		A8	38	57° 17.27'	170° 10.16'	20Bon	QToWF	
5-Jul	7:17	42	2		A8	38	57° 17.27'	170° 10.16'	60Bon	QToWF	
5-Jul	7:17	42	2		A8	38	57° 17.27'	170° 10.16'	CAT	CAT	
5-Jul	7:39	43	1	CTD048		28	57° 15.96'	170° 11.15'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	7:49	43	2		A9	28	57° 16.02'	170° 11.26'	20Bon	QToWF	

30 seconds @ surface
30 seconds @ surface
30 seconds @ surface

an extra bottle fired, but was not noticed until underway. salinity cal samples collected to determine depths

Table xxx W9706C CRUISE SUMMARY
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30 JUN - 14 JUL 1997

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
5-Jul	7:49	43	2	A9		28	57° 16.02'	170° 11.26'	60Bon	QTowF	
5-Jul	7:49	43	2	A9		28	57° 16.02'	170° 11.26'	CAT	CAT	
5-Jul	8:13	44	1	A10	CTD049	25	57° 15.10'	170° 12.34'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	8:28	44	2	A10		25	57° 15.19'	170° 12.31'	20Bon	QTowF	
5-Jul	8:28	44	2	A10		25	57° 15.19'	170° 12.31'	60Bon	QTowF	
5-Jul	8:28	44	2	A10		25	57° 15.19'	170° 12.31'	CAT	CAT	
5-Jul	9:28	45	1	A10		25	57° 15.65'	170° 12.01'	Trans	EY500	night
5-Jul	13:51	45	2	A1		73	57° 34.23'	169° 56.51'	Trans	EY500	night
5-Jul	14:38	46	1	A1	CTD050	73	57° 34.22'	169° 56.50'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	14:59	46	2	A1		73	57° 34.36'	169° 56.41'	20Bon	QTowF	1 minute @ surface
5-Jul	14:59	46	2	A1		73	57° 34.36'	169° 56.41'	60Bon	QTowF	1 minute @ surface
5-Jul	14:59	46	2	A1		73	57° 34.36'	169° 56.41'	CAT	CAT	1 minute @ surface
5-Jul	15:59	47	1	A2	CTD051	70	57° 29.47'	170° 00.91'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	16:15	47	2	A2		70	57° 29.64'	170° 00.76'	20Bon	QTowF	
5-Jul	16:15	47	2	A2		70	57° 29.64'	170° 00.76'	60Bon	QTowF	
5-Jul	16:15	47	2	A2		70	57° 29.64'	170° 00.76'	CAT	CAT	
5-Jul	16:57	48	1	A3	CTD052	63	57° 26.00'	170° 03.25'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	17:14	48	2	A3		63	57° 25.90'	170° 03.45'	20Bon	QTowF	
5-Jul	17:14	48	2	A3		63	57° 25.90'	170° 03.45'	60Bon	QTowF	
5-Jul	17:14	48	2	A3		63	57° 25.90'	170° 03.45'	CAT	CAT	
5-Jul	17:46	49	1	A4	CTD053	64	57° 23.54'	170° 06.24'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
5-Jul	18:05	49	2	A4		60	57° 23.50'	170° 06.42'	20Bon	QTowF	
5-Jul	18:05	49	2	A4		60	57° 23.50'	170° 06.42'	60Bon	QTowF	
5-Jul	18:05	49	2	A4		60	57° 23.50'	170° 06.42'	CAT	CAT	
5-Jul	18:41	50	1	A5	CTD054	59	57° 20.92'	170° 08.12'	CTDB	Chlor,CTD,Fluor,Nut,PAR	station redone due to change in water column since previous pass
5-Jul	19:21	50	2	A5		60	57° 21.03'	170° 08.19'	20Bon	QTowF	station redone due to change in water column since previous pass
5-Jul	19:21	50	2	A5		60	57° 21.03'	170° 08.19'	60Bon	QTowF	station redone due to change in water column since previous pass
5-Jul	19:21	50	2	A5		60	57° 21.03'	170° 08.19'	CAT	CAT	station redone due to change in water column since previous pass
5-Jul	19:50	51	1	A6	CTD055	47	57° 19.41'	170° 08.55'	CTDB	Chlor,CTD,Fluor,Nut,PAR	station redone due to change in water column since previous pass
5-Jul	20:30	51	2	A6		47	57° 19.44'	170° 08.47'	20Bon	QTowF	station redone due to change in water column since previous pass
5-Jul	20:30	51	2	A6		47	57° 19.44'	170° 08.47'	60Bon	QTowF	station redone due to change in water column since previous pass
5-Jul	20:30	51	2	A6		47	57° 19.44'	170° 08.47'	CAT	CAT	station redone due to change in water column since previous pass
5-Jul	20:57	52	1	A7	CTD056	49	57° 18.53'	170° 09.42'	CTDB	Chlor,CTD,Fluor,Nut,PAR	station redone due to change in water column since previous pass
5-Jul	22:06	53	1	A8		38	57° 17.21'	170° 10.17'	LG-CB	QTowF	no change in water column since previous pass
5-Jul	22:06	53	1	A8		38	57° 17.21'	170° 10.17'	Meth	belldiam,J-Genet,jellywgt,QTowF	scanmar used; mbt files: s53h1.* scanmar used; mbt files: s53h1.*

Table xxx W9706C CRUISE SUMMARY
FOCI CRUISE 4WE97

30 JUN - 14 JUL 1997

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
5-Jul	23:33	54	1	A5		57	170° 20.98'	170° 07.94'	LG-CB	QToWF	scanmar used; mbt files: s54h1.*
5-Jul	23:33	54	1	A5		57	170° 20.98'	170° 07.94'	Meth	belidiam,J-Genet,jellywgt,QToWF	scanmar used; mbt files: s54h1.*
6-Jul	0:47	55	1	A2		68	170° 29.69'	170° 00.35'	LG-CB	QToWF	scanmar used
6-Jul	0:47	55	1	A2		68	170° 29.69'	170° 00.35'	Meth	belidiam,J-Genet,jellywgt,QToWF	scanmar used
6-Jul	3:16	56	1	A1		70	169° 34.17'	169° 56.43'	Trans	EY500	day
6-Jul	7:18	56	2	A10		25	170° 15.10'	170° 12.30'	Trans	EY500	day
6-Jul	9:48	57	1	A8		39	170° 17.27'	170° 10.14'	LG-CB	QToWF	scanmar used
6-Jul	9:48	57	1	A8		39	170° 17.27'	170° 10.14'	Meth	belidiam,jellywgt,QToWF	scanmar used
6-Jul	10:20	58	1	A5		60	170° 20.96'	170° 08.80'	LG-CB	QToWF	scanmar used
6-Jul	10:20	58	1	A5		60	170° 20.96'	170° 08.80'	Meth	belidiam,jellywgt,QToWF	scanmar used
6-Jul	11:34	59	1	A2		70	170° 29.51'	170° 00.95'	LG-CB	QToWF	scanmar used
6-Jul	11:34	59	1	A2		70	170° 29.51'	170° 00.95'	Meth	belidiam,jellywgt,QToWF	scanmar used
6-Jul	12:36	59	2	A2		70	170° 29.50'	170° 00.88'	Tuck1	QToWF	scanmar used
6-Jul	16:13	60	1		CTD057	65	170° 03.00'	170° 08.55'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
6-Jul	16:31	60	2			65	170° 03.09'	170° 08.71'	20Bon	QToWF	
6-Jul	16:31	60	2			65	170° 03.09'	170° 08.71'	60Bon	QToWF	
6-Jul	16:31	60	2			65	170° 03.09'	170° 08.71'	CAT	CAT	
6-Jul	17:12	61	1		CTD058	35	170° 05.69'	170° 13.18'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
6-Jul	17:26	61	2	B8		35	170° 05.75'	170° 13.17'	20Bon	QToWF	
6-Jul	17:26	61	2	B8		35	170° 05.75'	170° 13.17'	60Bon	QToWF	
6-Jul	17:26	61	2	B8		35	170° 05.75'	170° 13.17'	CAT	CAT	
6-Jul	18:05	62	1	B7	CTD059	50	170° 02.83'	170° 16.92'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
6-Jul	18:20	62	2	B7		50	170° 02.95'	170° 16.87'	20Bon	QToWF	
6-Jul	18:20	62	2	B7		50	170° 02.95'	170° 16.87'	60Bon	QToWF	
6-Jul	18:20	62	2	B7		50	170° 02.95'	170° 16.87'	CAT	CAT	
6-Jul	19:01	63	1	B6	CTD060	65	170° 00.16'	170° 18.70'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
6-Jul	19:16	63	2	B6		65	170° 00.26'	170° 18.79'	20Bon	QToWF	
6-Jul	19:16	63	2	B6		65	170° 00.26'	170° 18.79'	60Bon	QToWF	
6-Jul	19:16	63	2	B6		65	170° 00.26'	170° 18.79'	CAT	CAT	
6-Jul	20:01	64	1	B5	CTD061	85	170° 56.86'	170° 21.53'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
6-Jul	20:19	64	2	B5		85	170° 56.93'	170° 21.61'	20Bon	QToWF	
6-Jul	20:19	64	2	B5		85	170° 56.93'	170° 21.61'	60Bon	QToWF	
6-Jul	20:19	64	2	B5		85	170° 56.93'	170° 21.61'	CAT	CAT	
6-Jul	20:58	65	1	B4	CTD062	96	170° 54.84'	170° 23.81'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
6-Jul	21:16	65	2	B4		92	170° 54.99'	170° 24.03'	20Bon	QToWF	
6-Jul	21:16	65	2	B4		92	170° 54.99'	170° 24.03'	60Bon	QToWF	
6-Jul	21:16	65	2	B4		92	170° 54.99'	170° 24.03'	CAT	CAT	
6-Jul	21:51	66	1	B3	CTD063	96	170° 53.10'	170° 26.62'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
6-Jul	22:08	66	2	B3		96	170° 53.18'	170° 26.65'	20Bon	QToWF	
6-Jul	22:08	66	2	B3		96	170° 53.18'	170° 26.65'	60Bon	QToWF	
6-Jul	22:08	66	2	B3		96	170° 53.18'	170° 26.65'	CAT	CAT	
6-Jul	23:03	67	1	B2	CTD064	107	170° 47.37'	170° 31.29'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
6-Jul	23:23	67	2	B2		107	170° 47.50'	170° 31.22'	20Bon	QToWF	
6-Jul	23:23	67	2	B2		107	170° 47.50'	170° 31.22'	60Bon	QToWF	

Table xxx W9706C CRUISE SUMMARY
FOCI CRUISE 4WE97

30 JUN - 14 JUL 1997

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
6-Jul	23:23	67	2	B2		107	56° 47.50'	170° 31.22'	CAT	CAT	
7-Jul	0:24	68	1	B1	CTD065	111	56° 41.59'	170° 37.01'	CTDB	Chlor,CTD,Fluor,Nut,PAR	45 seconds @ surface
7-Jul	0:45	68	2	B1		111	56° 41.79'	170° 37.19'	20Bon	QToWF	45 seconds @ surface
7-Jul	0:45	68	2	B1		111	56° 41.79'	170° 37.19'	60Bon	QToWF	45 seconds @ surface
7-Jul	0:45	68	2	B1		111	56° 41.79'	170° 37.19'	CAT	CAT	scanmar used; winch problems
7-Jul	2:48	69	1	B5		86	56° 57.21'	170° 21.18'	LG-CB	Discard	scanmar used; winch problems
7-Jul	3:41	69	2	B5		86	56° 57.21'	170° 21.18'	Meth	J-Genet	scanmar used; mbt files s69h2.*
7-Jul	3:41	69	2	B5		86	56° 56.81'	170° 21.50'	LG-CB	QToWF	scanmar used; mbt files s69h2.*
7-Jul	4:46	70	1	B7		54	57° 02.70'	170° 16.84'	Meth	belidiam,jellywgt,QToWF	scanmar used; mbt files s70h1.*
7-Jul	5:40	71	1	B8		36	57° 05.57'	170° 12.66'	LG-CB	QToWF	scanmar used; mbt files s70h1.*
7-Jul	5:40	71	1	B8		36	57° 05.57'	170° 12.66'	Meth	J-Genet,QToWF	scanmar used; mbt files s71h1.*
7-Jul	6:50	72	1	B5		83	56° 57.07'	170° 21.37'	Tuck1	QToWF	scanmar used; it read 5m @ surface
7-Jul	11:19	73	1	B8		36	57° 05.83'	170° 13.09'	Trans	EY500	night
7-Jul	14:55	73	2	B1		111	56° 41.60'	170° 36.99'	Trans	EY500	night
7-Jul	17:12	74	1	B5		85	56° 57.15'	170° 21.61'	Tuck1	QToWF	scanmar used; it read 5m @ surface
7-Jul	18:03	75	1	B7		53	57° 03.01'	170° 16.84'	Tuck1	QToWF	scanmar used; it read 5m @ surface
7-Jul	18:40	76	1	B8		35	57° 05.67'	170° 13.12'	Tuck1	QToWF	scanmar used; it read 5m @ surface
7-Jul	19:24	77	1	B8		35	57° 05.83'	170° 12.96'	Trans	EY500	day
7-Jul	23:58	77	2	B1		111	56° 41.61'	170° 37.14'	Trans	EY500	day
8-Jul	2:27	78	1		CTD066	110	56° 25.99'	170° 13.21'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
8-Jul	2:47	78	2			111	56° 26.14'	170° 13.55'	20Bon	QToWF	35 seconds @ surface
8-Jul	2:47	78	2			111	56° 26.14'	170° 13.55'	60Bon	QToWF	35 seconds @ surface
8-Jul	2:47	78	2			111	56° 26.14'	170° 13.55'	CAT	CAT	35 seconds @ surface
8-Jul	4:34	79	1		CTD067	101	56° 41.02'	170° 12.46'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
8-Jul	4:40	79	2			101	56° 41.16'	170° 12.65'	20Bon	QToWF	
8-Jul	4:40	79	2			101	56° 41.16'	170° 12.65'	60Bon	QToWF	
8-Jul	4:40	79	2			101	56° 41.16'	170° 12.65'	CAT	CAT	
8-Jul	6:09	80	1		CTD068	73	56° 52.15'	169° 58.24'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
8-Jul	6:22	80	2			73	56° 52.11'	169° 58.38'	20Bon	QToWF	
8-Jul	6:22	80	2			73	56° 52.11'	169° 58.38'	60Bon	QToWF	
8-Jul	6:22	80	2			73	56° 52.11'	169° 58.38'	CAT	CAT	
8-Jul	9:27	81	1	B8		31	57° 05.77'	170° 12.97'	LG-CB	QToWF	scanmar used; mbt files: s81h1.*
8-Jul	9:27	81	1	B8		31	57° 05.77'	170° 12.97'	Meth	QToWF	scanmar used; mbt files: s81h1.*
8-Jul	10:04	82	1	B7		54	57° 02.55'	170° 16.83'	LG-CB	QToWF	scanmar used; mbt files: s82h1.*
8-Jul	10:04	82	1	B7		54	57° 02.55'	170° 16.83'	Meth	belidiam,jellywgt,QToWF	scanmar used; mbt files: s82h1.*
8-Jul	10:56	83	1	B5		87	56° 56.70'	170° 21.71'	LG-CB	QToWF	scanmar used; mbt files: s83h1.*
8-Jul	10:56	83	1	B5		87	56° 56.70'	170° 21.71'	Meth	belidiam,jellywgt,QToWF	scanmar used; mbt files: s83h1.*
8-Jul	11:37	83	2	B5		87	56° 56.73'	170° 21.63'	Tuck1	QToWF	scanmar used; mbt files: s83h1.*
8-Jul	12:15	83	3	B5		87	56° 56.68'	170° 21.77'	Tuck1	QToWF	scanmar used; mbt files: s83h1.*
8-Jul	14:49	84	1		CTD069	80	56° 41.40'	169° 48.19'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
8-Jul	15:10	84	2			80	56° 41.43'	169° 48.51'	20Bon	QToWF	
8-Jul	15:10	84	2			80	56° 41.43'	169° 48.51'	60Bon	QToWF	

Table xxx W9706C CRUISE SUMMARY
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Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
8-Jul	15:10	84	2			80	56° 41.43'	169° 48.51'	CAT	CAT	
8-Jul	17:00	85	1	C9		50	56° 37.07'	169° 34.74'	Trans	EY500	day
8-Jul	22:01	85	2	C1		60	57° 06.47'	169° 44.39'	Trans	EY500	day
8-Jul	23:38	86	1		CTD070	73	57° 06.01'	169° 19.20'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
8-Jul	23:57	86	2			73	57° 05.90'	169° 19.56'	20Bon	QToWF	38 seconds @ surface
8-Jul	23:57	86	2			73	57° 05.90'	169° 19.56'	60Bon	QToWF	38 seconds @ surface
8-Jul	23:57	86	2			73	57° 05.90'	169° 19.56'	CAT	CAT	38 seconds @ surface
9-Jul	1:19	87	1	C1	CTD071	54	57° 06.46'	169° 44.38'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
9-Jul	1:34	87	2	C1		54	57° 06.62'	169° 44.65'	20Bon	QToWF	
9-Jul	1:34	87	2	C1		54	57° 06.62'	169° 44.65'	60Bon	QToWF	
9-Jul	1:34	87	2	C1		54	57° 06.62'	169° 44.65'	CAT	CAT	
9-Jul	2:15	88	1	C2	CTD072	59	57° 03.58'	169° 43.29'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
9-Jul	2:45	88	2	C2		59	57° 03.55'	169° 43.49'	20Bon	QToWF	
9-Jul	2:45	88	2	C2		59	57° 03.55'	169° 43.49'	60Bon	QToWF	
9-Jul	2:45	88	2	C2		59	57° 03.55'	169° 43.49'	CAT	CAT	
9-Jul	3:19	89	1	C3	CTD073	62	57° 00.76'	169° 41.99'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
9-Jul	3:34	89	2	C3		62	57° 00.73'	169° 42.31'	20Bon	QToWF	30 seconds @ surface
9-Jul	3:34	89	2	C3		62	57° 00.73'	169° 42.31'	60Bon	QToWF	30 seconds @ surface
9-Jul	3:34	89	2	C3		62	57° 00.73'	169° 42.31'	CAT	CAT	30 seconds @ surface
9-Jul	4:11	90	1	C4	CTD074	63	56° 57.41'	169° 40.96'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
9-Jul	4:25	90	2	C4		63	56° 57.44'	169° 40.73'	20Bon	QToWF	30 seconds @ surface
9-Jul	4:25	90	2	C4		63	56° 57.44'	169° 40.73'	60Bon	QToWF	30 seconds @ surface
9-Jul	4:25	90	2	C4		63	56° 57.44'	169° 40.73'	CAT	CAT	30 seconds @ surface
9-Jul	4:57	91	1	C5	CTD075	69	56° 54.74'	169° 40.09'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
9-Jul	5:14	91	2	C5		69	56° 54.62'	169° 40.36'	20Bon	QToWF	30 seconds @ surface
9-Jul	5:14	91	2	C5		69	56° 54.62'	169° 40.36'	60Bon	QToWF	30 seconds @ surface
9-Jul	5:14	91	2	C5		69	56° 54.62'	169° 40.36'	CAT	CAT	30 seconds @ surface
9-Jul	6:06	92	1	C6	CTD076	70	56° 48.37'	169° 37.15'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
9-Jul	6:19	92	2	C6		70	56° 48.31'	169° 37.40'	20Bon	QToWF	
9-Jul	6:19	92	2	C6		70	56° 48.31'	169° 37.40'	60Bon	QToWF	
9-Jul	6:19	92	2	C6		70	56° 48.31'	169° 37.40'	CAT	CAT	
9-Jul	7:06	93	1	C7	CTD077	80	56° 42.69'	169° 35.97'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
9-Jul	7:20	93	2	C7		80	56° 42.59'	169° 36.07'	20Bon	QToWF	
9-Jul	7:20	93	2	C7		80	56° 42.59'	169° 36.07'	60Bon	QToWF	
9-Jul	7:20	93	2	C7		80	56° 42.59'	169° 36.07'	CAT	CAT	
9-Jul	7:59	94	1	C8	CTD078	72	56° 38.14'	169° 35.84'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
9-Jul	8:17	94	2	C8		72	56° 38.34'	169° 35.81'	20Bon	QToWF	cat failed on descent @43m, used wire angle to determine max depth
9-Jul	8:17	94	2	C8		72	56° 38.34'	169° 35.81'	60Bon	QToWF	cat failed on descent @43m, used wire angle to determine max depth
9-Jul	8:17	94	2	C8		72	56° 38.34'	169° 35.81'	CAT	CAT	cat failed on descent @43m, used wire angle to determine max depth
9-Jul	9:00	95	1	C9	CTD079	48	56° 37.10'	169° 34.59'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
9-Jul	9:23	95	2	C9		45	56° 37.17'	169° 34.48'	20Bon	QToWF	

Table xxx W9706C CRUISE SUMMARY
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Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
9-Jul	9:23	95	2	C9		45	56° 37.17'	169° 34.48'	60Bon	QTowF	
9-Jul	9:23	95	2	C9		45	56° 37.17'	169° 34.48'	CAT	CAT	night
9-Jul	10:18	96	1	C9		45	56° 37.49'	169° 34.84'	Trans	EY500	night
9-Jul	11:14	96	2	C1		54	57° 06.46'	169° 44.35'	Trans	EY500	redid because we erroneously thought previous occupation had empty ctd file
9-Jul	15:48	97	1	C1	CTD080	55	57° 06.47'	169° 44.39'	CTD	CTD,Fluor,PAR	
9-Jul	17:51	98	1	C5		70	56° 54.83'	169° 40.13'	LG-CB	QTowF	scanmar used
9-Jul	17:51	98	1	C5		70	56° 54.83'	169° 40.13'	Meth	J-Genet,QTowF	scanmar used
9-Jul	18:22	98	2	C5		70	56° 54.83'	169° 40.15'	Tuck1	QTowF	scanmar used; mbt files: s98h2.*
9-Jul	19:45	99	1	C7		81	56° 42.74'	169° 36.23'	Tuck1	QTowF	scanmar used; mbt files: s99h1.*
9-Jul	20:24	99	2	C7		82	56° 42.73'	169° 36.50'	LG-CB	QTowF	scanmar used; mbt files: s99h2.*
9-Jul	20:24	99	2	C7		82	56° 42.73'	169° 36.50'	Meth	belidiam,J-Genet,jellywgt,QTowF	scanmar used; mbt files: s99h2.*
9-Jul	21:23	100	1	C9		51	56° 37.41'	169° 34.85'	LG-CB	QTowF	scanmar used; mbt files: s100h1.*
9-Jul	21:23	100	1	C9		51	56° 37.41'	169° 34.85'	Meth	belidiam,J-Genet,jellywgt,QTowF	scanmar used; mbt files: s100h1.*
9-Jul	22:00	100	2	C9		45	56° 37.31'	169° 34.91'	Tuck1	QTowF	scanmar used
9-Jul	22:22	100	3	C9	CTD081	51	56° 37.24'	169° 34.61'	CTDB	Chlor,CTD,Fluor,Nut,PAR	redid station due to empty CTD file for station 95-1
9-Jul	22:45	101	1	C9		51	56° 37.55'	169° 34.70'	Trans	EY500	day
10-Jul	1:46	101	2	C9		70	56° 49.31'	169° 38.43'	Trans	EY500	day; system failure will redo
10-Jul	3:25	102	1	C9		51	56° 37.07'	169° 34.87'	Trans	EY500	day
10-Jul	8:20	102	2	C1		55	57° 06.45'	169° 44.36'	Trans	EY500	day
10-Jul	9:53	103	1	C5		70	56° 54.62'	169° 39.97'	Tuck1	QTowF	scanmar used; mbt files: s103h1.*
10-Jul	10:20	103	2	C5		72	56° 54.79'	169° 40.16'	LG-CB	QTowF	scanmar used; mbt files: s103h2.*
10-Jul	10:20	103	2	C5		72	56° 54.79'	169° 40.16'	Meth	belidiam,jellywgt,QTowF	scanmar used; mbt files: s103h2.*
10-Jul	11:52	104	1	C7		83	56° 42.65'	169° 36.29'	LG-CB	QTowF	scanmar used; mbt files: s104h1.*
10-Jul	11:52	104	1	C7		83	56° 42.65'	169° 36.29'	Meth	belidiam,jellywgt,QTowF	scanmar used; mbt files: s104h1.*
10-Jul	12:40	104	2	C7		80	56° 42.59'	169° 35.92'	Tuck1	QTowF	scanmar used
10-Jul	13:36	105	1	C9		46	56° 37.14'	169° 34.58'	Tuck1	QTowF	scanmar used
10-Jul	14:01	105	2	C9		50	56° 37.21'	169° 34.46'	LG-CB	QTowF	scanmar used; mbt files: s105h2.*
10-Jul	14:01	105	2	C9		50	56° 37.21'	169° 34.46'	Meth	belidiam,jellywgt,QTowF	scanmar used; mbt files: s105h2.*
10-Jul	15:20	106	1	D7	CTD082	44	56° 33.43'	169° 29.08'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
10-Jul	15:40	106	2	D7		44	56° 33.50'	169° 28.97'	20Bon	QTowF	
10-Jul	15:40	106	2	D7		44	56° 33.50'	169° 28.97'	60Bon	QTowF	
10-Jul	15:40	106	2	D7		44	56° 33.50'	169° 28.97'	CAT	CAT	
10-Jul	16:13	107	1	D6	CTD083	75	56° 32.05'	169° 29.08'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
10-Jul	16:29	107	2	D6		75	56° 32.14'	169° 29.07'	20Bon	QTowF	
10-Jul	16:29	107	2	D6		75	56° 32.14'	169° 29.07'	60Bon	QTowF	
10-Jul	16:29	107	2	D6		75	56° 32.14'	169° 29.07'	CAT	CAT	
10-Jul	16:29	107	2	D6		75	56° 32.14'	169° 29.07'	CAT	CAT	
10-Jul	17:06	108	1	D5	CTD084	87	56° 30.02'	169° 28.56'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
10-Jul	17:43	108	2	D5		87	56° 30.16'	169° 28.51'	20Bon	QTowF	
10-Jul	17:43	108	2	D5		87	56° 30.16'	169° 28.51'	60Bon	QTowF	
10-Jul	17:43	108	2	D5		87	56° 30.16'	169° 28.51'	CAT	CAT	
10-Jul	18:23	109	1	D4	CTD085	105	56° 27.28'	169° 28.29'	CTDB	Chlor,CTD,Fluor,Nut,PAR	

30 JUN - 14 JUL 1997

Table xxx W9706C CRUISE SUMMARY
FOCI CRUISE 4WE97

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
10-Jul	18:40	109	2	D4		105	56° 27.44'	169° 28.25'	20Bon	QTowF	
10-Jul	18:40	109	2	D4		105	56° 27.44'	169° 28.25'	60Bon	QTowF	
10-Jul	18:40	109	2	D4		105	56° 27.44'	169° 28.25'	CAT	CAT	
10-Jul	19:24	110	1	D3	CTD086	127	56° 24.17'	169° 27.36'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
10-Jul	19:43	110	2	D3		127	56° 24.31'	169° 27.36'	20Bon	QTowF	
10-Jul	19:43	110	2	D3		127	56° 24.31'	169° 27.36'	60Bon	QTowF	
10-Jul	19:43	110	2	D3		127	56° 24.31'	169° 27.36'	CAT	CAT	
10-Jul	20:29	111	1	D2	CTD087	138	56° 21.13'	169° 28.32'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
10-Jul	20:50	111	2	D2		138	56° 21.32'	169° 28.19'	20Bon	QTowF	
10-Jul	20:50	111	2	D2		138	56° 21.32'	169° 28.19'	60Bon	QTowF	
10-Jul	20:50	111	2	D2		138	56° 21.32'	169° 28.19'	CAT	CAT	
10-Jul	21:50	112	1	D1	CTD088	258	56° 16.51'	169° 26.47'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
10-Jul	22:15	112	2	D1		258	56° 16.73'	169° 26.34'	20Bon	QTowF	
10-Jul	22:15	112	2	D1		258	56° 16.73'	169° 26.34'	60Bon	QTowF	
10-Jul	22:15	112	2	D1		258	56° 16.73'	169° 26.34'	CAT	CAT	
10-Jul	23:40	113	1	DEX1	CTD089	619	56° 09.54'	169° 25.33'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
11-Jul	0:24	113	2	DEX1		619	56° 09.84'	169° 25.37'	20Bon	QTowF	
11-Jul	0:24	113	2	DEX1		619	56° 09.84'	169° 25.37'	60Bon	QTowF	
11-Jul	0:24	113	2	DEX1		619	56° 09.84'	169° 25.37'	CAT	CAT	
11-Jul	1:34	114	1	DEX2	CTD090	302	56° 03.56'	169° 24.34'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
11-Jul	2:04	114	2	DEX2		302	56° 03.62'	169° 24.41'	20Bon	QTowF	
11-Jul	2:04	114	2	DEX2		302	56° 03.62'	169° 24.41'	60Bon	QTowF	
11-Jul	2:04	114	2	DEX2		302	56° 03.62'	169° 24.41'	CAT	CAT	
11-Jul	3:53	115	1	DEX3	CTD091	1900	55° 57.58'	169° 23.42'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
11-Jul	4:36	115	2	DEX3		1900	55° 57.74'	169° 23.50'	20Bon	QTowF	
11-Jul	4:36	115	2	DEX3		1900	55° 57.74'	169° 23.50'	60Bon	QTowF	
11-Jul	4:36	115	2	DEX3		1900	55° 57.74'	169° 23.50'	CAT	CAT	
11-Jul	7:00	116	1		CTD092	249	56° 15.53'	169° 42.14'	CTDB	Chlor,CTD,Fluor,Nut,PAR	
11-Jul	7:26	116	2			249	56° 15.67'	169° 42.00'	20Bon	QTowF	
11-Jul	7:26	116	2			249	56° 15.67'	169° 42.00'	60Bon	QTowF	
11-Jul	7:26	116	2			249	56° 15.67'	169° 42.00'	CAT	CAT	
11-Jul	10:12	117	1	D7		44	56° 33.00'	169° 28.65'	Trans	EY500	
11-Jul	15:09	117	2			1900	56° 03.35'	169° 24.26'	Trans	EY500	
11-Jul	16:16	118	1	DEX1		619	56° 09.67'	169° 25.47'	Tuck1	QTowF	
11-Jul	16:47	118	2	DEX1		619	56° 09.73'	169° 25.38'	LG-CB	QTowF	
11-Jul	16:47	118	2	DEX1		619	56° 09.73'	169° 25.38'	Meth	QTowF	
11-Jul	18:13	119	1	D2		131	56° 21.17'	169° 28.24'	LG-CB	QTowF	
11-Jul	18:13	119	1	D2		131	56° 21.17'	169° 28.24'	Meth	belldiam,jellywgt,Q.TowF	

night
 night; ended between DEX1 & DEX2
 scanmar used; mbt files: s118h1.*
 scanmar used; mbt files: s118h2.*
 scanmar used; mbt files: s118h2.*
 scanmar used; mbt files: s119h1.* -
 incorrect bottom depth given by bridge
 (73m)
 scanmar used; mbt files: s119h1.* -
 incorrect bottom depth given by bridge
 (73m)

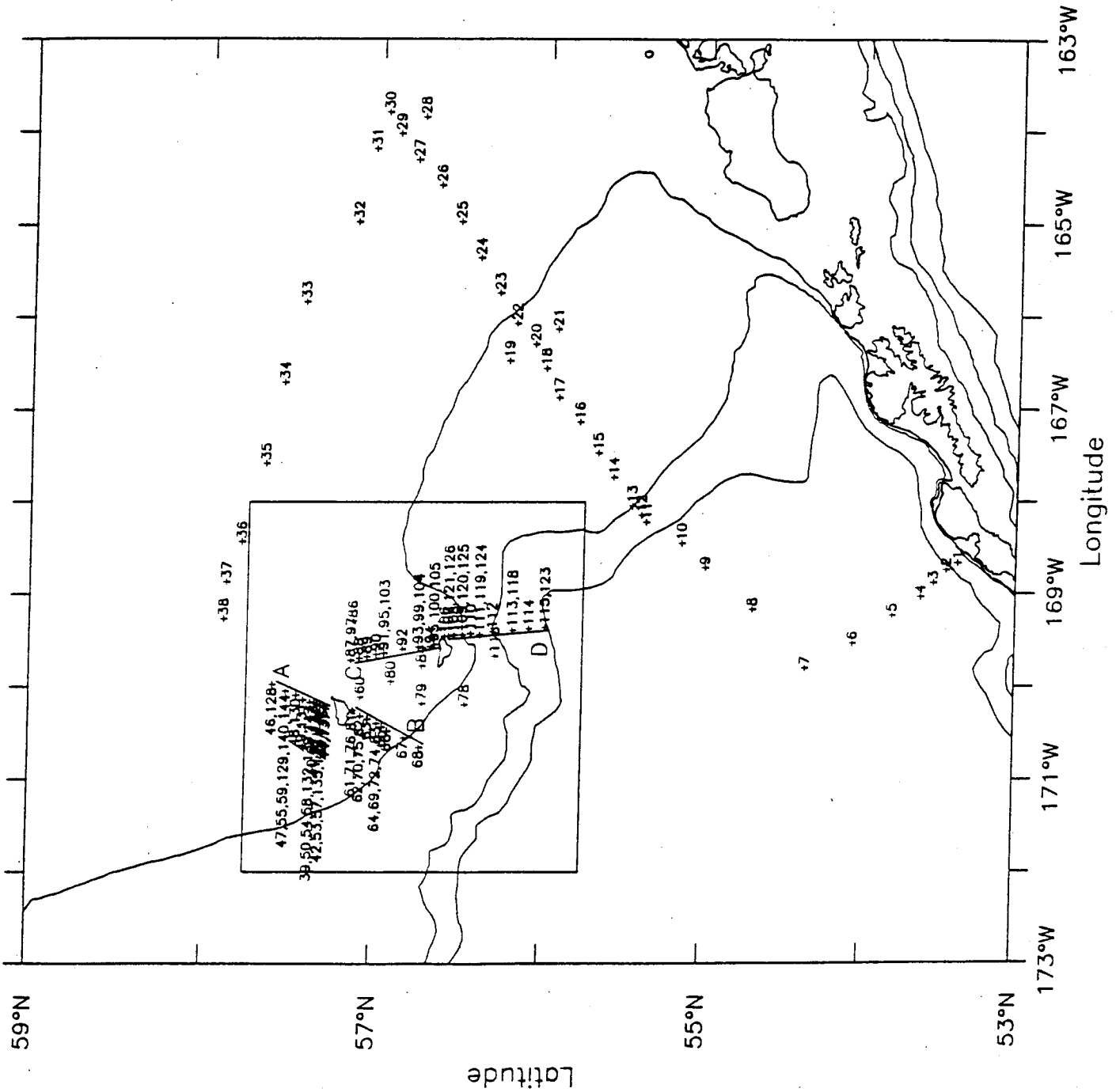
Table xxx W9706C CRUISE SUMMARY
FOCI CRUISE 4WE97

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
11-Jul	18:38	119	2	D2		131	56° 21.13'	169° 28.27'	Tuck1	QToWF	30 JUN - 14 JUL 1997 scanmar used; mbt files: s119h2.* - incorrect bottom depth from bridge (73m)
11-Jul	19:31	120	1	D4		103	56° 27.43'	169° 28.50'	Tuck1	QToWF	scanmar used; mbt files: s120h1.* -net 2 probably didn't trip until near the surface although it came up open
11-Jul	20:04	120	2	D4		102	56° 27.40'	169° 28.34'	LG-CB	QToWF	scanmar used; mbt files: s120h2.*
11-Jul	20:04	120	2	D4		102	56° 27.40'	169° 28.34'	Meth	belidiam,jellywgt,QToWF	scanmar used; mbt files: s120h2.*
11-Jul	20:55	121	1	D6		74	56° 32.16'	169° 28.47'	LG-CB	QToWF	scanmar used; mbt files: s121h1.*
11-Jul	20:55	121	1	D6		74	56° 32.16'	169° 28.47'	Meth	belidiam,jellywgt,QToWF	scanmar used; mbt files: s121h1.*
11-Jul	21:34	121	2	D6		75	56° 32.16'	169° 28.86'	Tuck1	QToWF	scanmar used; mbt files: s121h1.*
12-Jul	0:41	122	1	D7		44	56° 33.36'	169° 29.13'	Trans	EY500	scanmar used; mbt files: s121h2.*
12-Jul	6:34	122	2	DEX3		2000	55° 57.60'	169° 23.38'	Trans	EY500	day
12-Jul	7:10	123	1	DEX3		2000	55° 57.45'	169° 23.42'	Tuck1	QToWF	scanmar used; mbt files: s123h1.*
12-Jul	7:46	123	2	DEX3		2000	55° 57.55'	169° 23.34'	LG-CB	QToWF	scanmar used; mbt files: s123h2.*
12-Jul	7:46	123	2	DEX3		2000	55° 57.55'	169° 23.34'	Meth	QToWF	scanmar used; mbt files: s123h2.*
12-Jul	10:14	124	1	D2		110	56° 21.30'	169° 28.24'	LG-CB	QToWF	scanmar used; mbt files: s124h1.*
12-Jul	10:14	124	1	D2		110	56° 21.30'	169° 28.24'	Meth	belidiam,jellywgt,QToWF	scanmar used; mbt files: s124h1.*
12-Jul	10:49	124	2	D2		145	56° 21.11'	169° 28.02'	Tuck1	J-Genet,QToWF	scanmar used
12-Jul	11:43	125	1	D4		105	56° 27.30'	169° 28.33'	Tuck1	QToWF	scanmar used
12-Jul	12:19	125	2	D4		104	56° 27.38'	169° 28.44'	LG-CB	QToWF	scanmar used; mbt files: s125h2.*
12-Jul	12:19	125	2	D4		104	56° 27.38'	169° 28.44'	Meth	belidiam,J-Genet,jellywgt,QToWF	scanmar used; mbt files: s125h2.*
12-Jul	13:14	126	1	D6		77	56° 32.27'	169° 28.76'	LG-CB	QToWF	scanmar used; mbt files: s126h1.*
12-Jul	13:14	126	1	D6		77	56° 32.27'	169° 28.76'	Meth	belidiam,J-Genet,jellywgt,QToWF	scanmar used; mbt files: s126h1.*
12-Jul	13:48	126	2	D6		77	56° 32.19'	169° 28.93'	Tuck1	QToWF	scanmar used
12-Jul	19:20	127	1	A10		25	57° 15.10'	170° 12.31'	Trans	EY500	day
12-Jul	22:50	127	2	A1		73	57° 34.23'	169° 56.48'	Trans	EY500	day
12-Jul	23:17	128	1	A1	CTD093	71	57° 34.23'	169° 56.48'	CTD	CTD,Fluor,PAR	
12-Jul	23:59	129	1	A2	CTD094	67	57° 29.46'	170° 00.91'	CTD	CTD,Fluor,PAR	
13-Jul	0:35	130	1	A3	CTD095	63	57° 25.99'	170° 03.24'	CTD	CTD,Fluor,PAR	
13-Jul	1:05	131	1	A4	CTD096	60	57° 23.52'	170° 06.20'	CTD	CTD,Fluor,PAR	
13-Jul	1:33	132	1	A5	CTD097	58	57° 20.90'	170° 08.09'	CTD	CTD,Fluor,PAR	
13-Jul	1:54	133	1	A6	CTD098	51	59° 19.44'	170° 08.50'	CTD	CTD,Fluor,PAR	
13-Jul	2:14	134	1	A7	CTD099	48	57° 18.51'	170° 09.43'	CTD	CTD,Fluor,PAR	
13-Jul	2:34	135	1	A8	CTD100	35	57° 17.24'	170° 10.10'	CTD	CTD,Fluor,PAR	
13-Jul	2:56	136	1	A9	CTD101	28	57° 15.97'	170° 11.13'	CTD	CTD,Fluor,PAR	
13-Jul	3:15	137	1	A10	CTD102	27	57° 15.09'	170° 12.30'	CTD	CTD,Fluor,PAR	
13-Jul	3:47	138	1	A8		35	57° 17.34'	170° 09.96'	Tuck1	QToWF	scanmar used
13-Jul	4:25	138	2	A8		40	57° 17.27'	170° 10.17'	LG-CB	QToWF	scanmar used
13-Jul	4:25	138	2	A8		40	57° 17.27'	170° 10.17'	Meth	belidiam,jellywgt,QToWF	scanmar used
13-Jul	5:03	139	1	A5		59	57° 21.19'	170° 08.27'	LG-CB	QToWF	scanmar used; mbt files: s139h1.*
13-Jul	5:03	139	1	A5		59	57° 21.19'	170° 08.27'	Meth	belidiam,jellywgt,QToWF	scanmar used; mbt files: s139h1.*
13-Jul	5:43	139	2	A5		58	57° 20.90'	170° 08.20'	Tuck1	QToWF	scanmar used; mbt files: s139h2.*

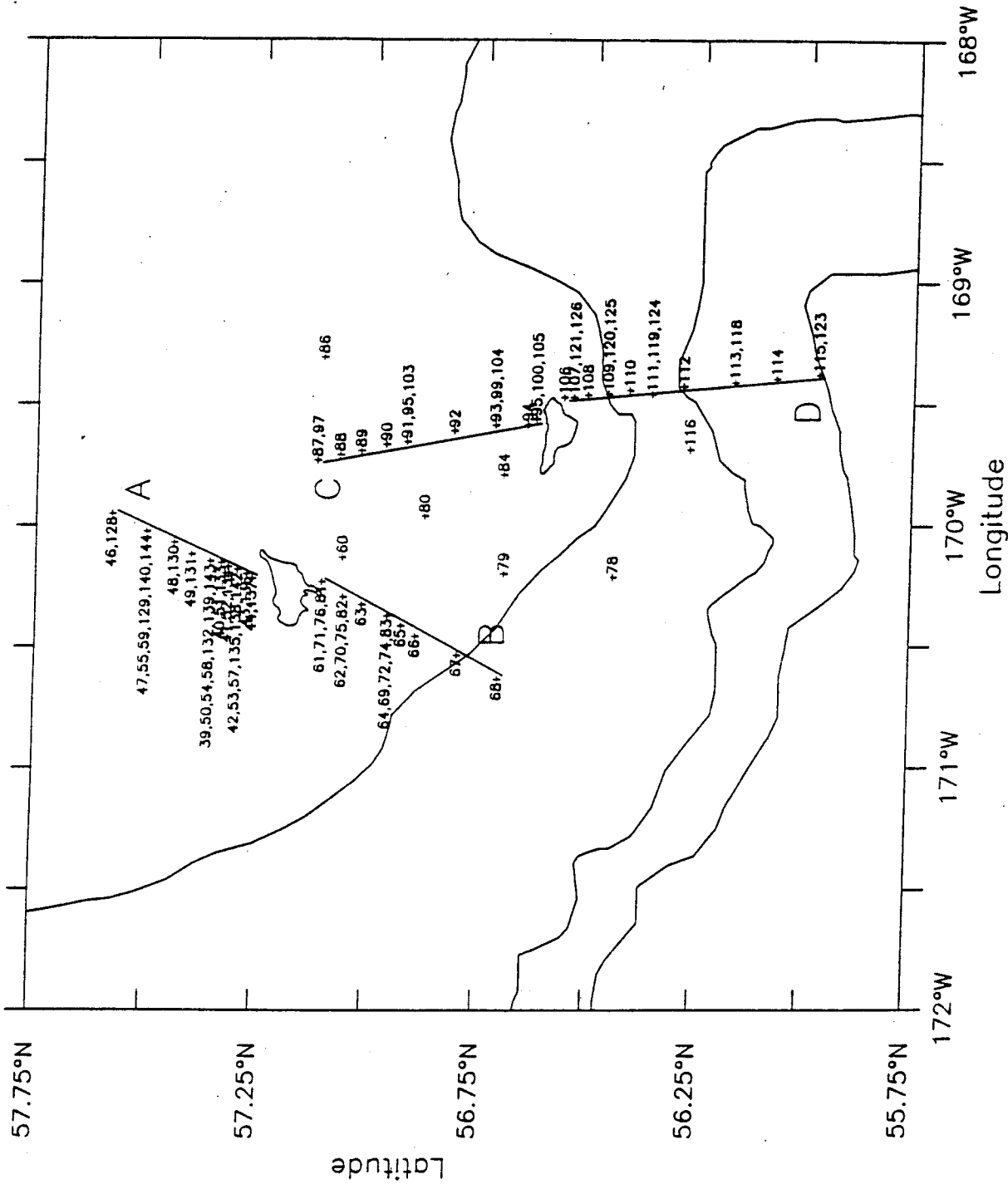
Table xxx W9706C CRUISE SUMMARY
FOCI CRUISE 4WE97

30 JUN - 14 JUL 1997

Date (GMT)	Time (GMT)	Station	Haul	FOCI Grid No.	Alternate Station No.	Depth (m)	Latitude N	Longitude W	Gear	Samples Collected	Haul Comments
13-Jul	6:51	140	1	A2		70	57° 29.52'	170° 01.18'	Tuck1	QTowF	scanmar used; mbt files: s140h1.*
13-Jul	7:17	140	2	A2		70	57° 29.63'	170° 01.19'	LG-CB	QTowF	scanmar used; mbt files: s140h2.*
13-Jul	7:17	140	2	A2		70	57° 29.63'	170° 01.19'	Meth	belldiam,jellywgt,Q,TowF	scanmar used; mbt files: s140h2.*
13-Jul	8:45	141	1	A1		73	57° 34.23'	169° 56.49'	Trans	EY500	night
13-Jul	12:19	141	2	A10		25	57° 15.10'	170° 12.32'	Trans	EY500	night
13-Jul	12:56	142	1	A8		41	57° 17.36'	170° 10.09'	LG-CB	QTowF	scanmar used; mbt files: s142h1.*
13-Jul	12:56	142	1	A8		41	57° 17.36'	170° 10.09'	Meth	belldiam,jellywgt,Q,TowF	scanmar used; mbt files: s142h1.*
13-Jul	13:30	143	1	A5		58	57° 20.83'	170° 08.09'	LG-CB	QTowF	scanmar used; mbt files: s143h1.*
13-Jul	13:30	143	1	A5		58	57° 20.83'	170° 08.09'	Meth	belldiam,J-Wght,Q,TowF	scanmar used; mbt files: s143h1.*
13-Jul	14:40	144	1	A2		70	57° 29.51'	170° 01.07'	LG-CB	QTowF	scanmar used; mbt files: s144h1.*
13-Jul	14:40	144	1	A2		70	57° 29.51'	170° 01.07'	Meth	belldiam,jellywgt,Q,TowF	scanmar used; mbt files: s144h1.*
13-Jul	15:06	144	2	A2		70	57° 29.43'	170° 00.97'	Tuck1	QTowF	scanmar used



4WE97 Stations



4WE97 Pribilof Island Transects