

## CRUISE REPORT

**Cruise Number:** MF-9614  
**FOCI Number:** FOCI 9615  
**NOAA Ship:** Miller Freeman  
**Area of Operations:** Bering Sea, Gulf of Alaska

**Itinerary:** Departed St. Paul, September 16, 1996  
(Ports and dates) TNG Larsen Bay, September 29, 1996  
Arrived Seattle, October 5, 1996

**Participating Organizations:** NOAA PMEL, AFSC

**Chief Scientist:** William Parker  
**Affiliation:** PMEL

**Personnel:** William Parker  
Carol Dewitt  
Dave Kachel  
Nick Delich  
**Affiliation:** PMEL  
PMEL  
PMEL  
PMEL

### **Objectives of Cruise:**

Deploy eight FOCI moorings. Recover ten FOCI moorings. Conduct CTD lines in the Bering Sea and Gulf of Alaska.

### **Summary of Operations:**

On September 16 two miles outside of St. Paul harbor the Miller Freeman divers attempted to recover mooring E-96SP-3. High current speeds would not allow the divers to locate the subsurface mooring. The mooring was recovered by dragging operations. The release (191) released from the anchor during dragging. All equipment was recovered.

North of St. Paul Island, subsurface mooring F-96BS-4 was deployed on 17 September.

The Miller Freeman completed the CTD line from mooring site 3 to mooring site 2 and then began recovery operations at site 2 on September 18th. F-96BST-2S ADCP TRAP mooring primary release failed to release recovery float, the secondary float was released and recovered. The recovery line parted after it slipped out of the A-frame block allowing the slack line to wrap around the ships rudder. At mooring site 2, recovered: surface mooring F-96BSM-2, deployed: subsurface moorings F-96BST-2F, F-96BS-2C.

At mooring site 3 on the 19th., recovered: surface mooring F-96BSM-3, subsurface mooring F-96BST-3S.

After completing these operations the Miller Freeman moved to the Amukta Pass area to conduct CTD line observations. Seventeen CTD casts were completed.

We then returned to mooring site 2 on September 24th. to begin a search for the parted

F-96BST-2S line. The weather had improved from the earlier occupation on the 18th. But did not allow us to conduct a detailed search.

On the 25th. we moved to the Unimak Pass area and deployed five pressure gauge moorings ( PG-96UP-5, 4, 3, 2 and 1 ), an ADCP transect and CTD.

On the 26th. We completed a CTD line ( 6 CTDs ) in the Gulf of Alaska and deployed Seimac drifter 7212.

Recoveries of subsurface moorings F-9618 and F-9616 were done on the 27th. F-9601, F-9602 and F-9603 on the 28th. CTD line 8 was completed.

Touch and go at Larsen Bay on the 29th. To off load scientists and crew member. The Miller Freeman departed Larsen Bay for to Seattle.

The order of cruise operations is listed in the attachment.

**Operations:**

CTD casts: 44

ADCP Transect: 1

ARGOS Drifters deployed: 1

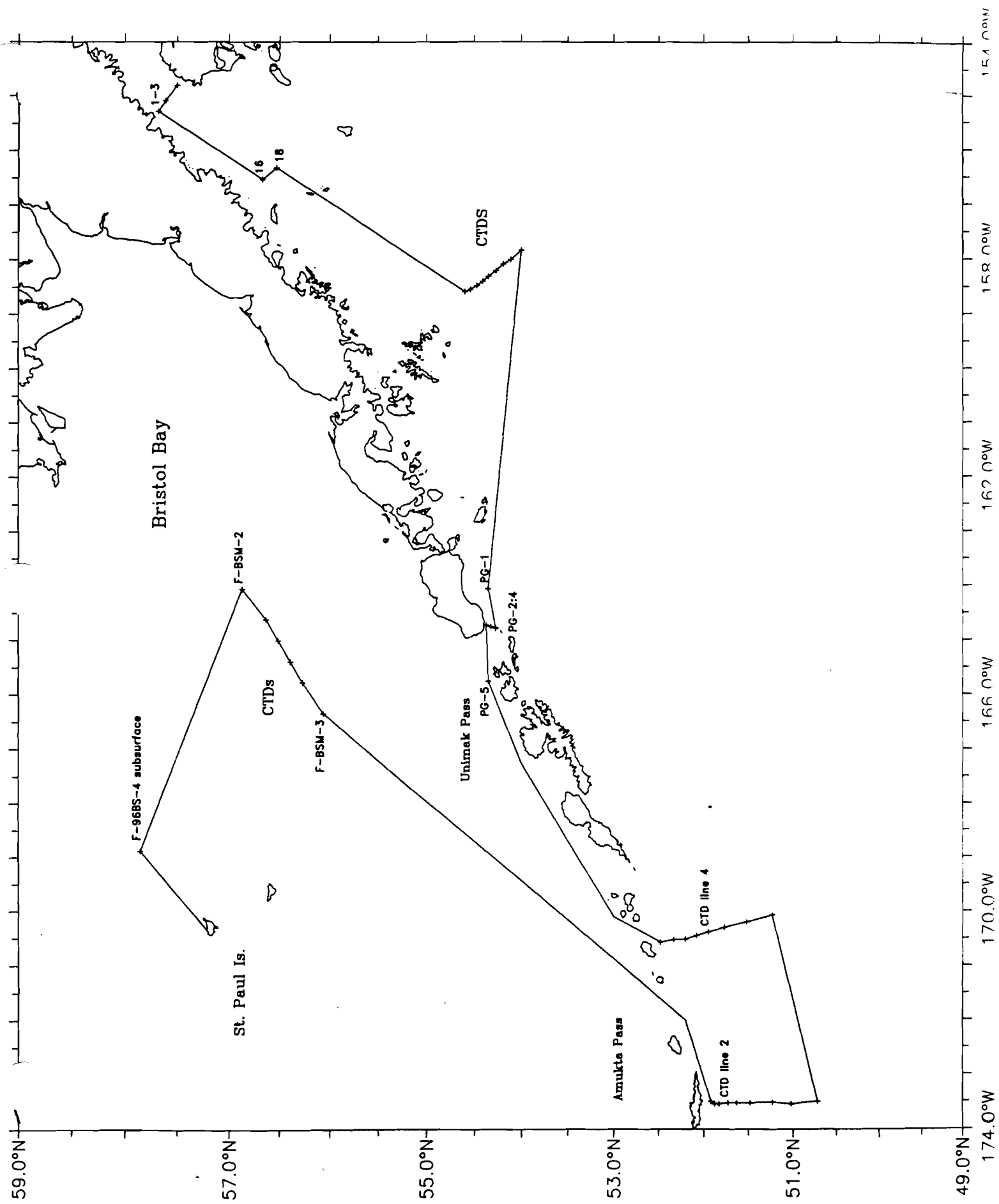
Mooring deployments: 9

Mooring recoveries : 9

**Acknowledgements:**

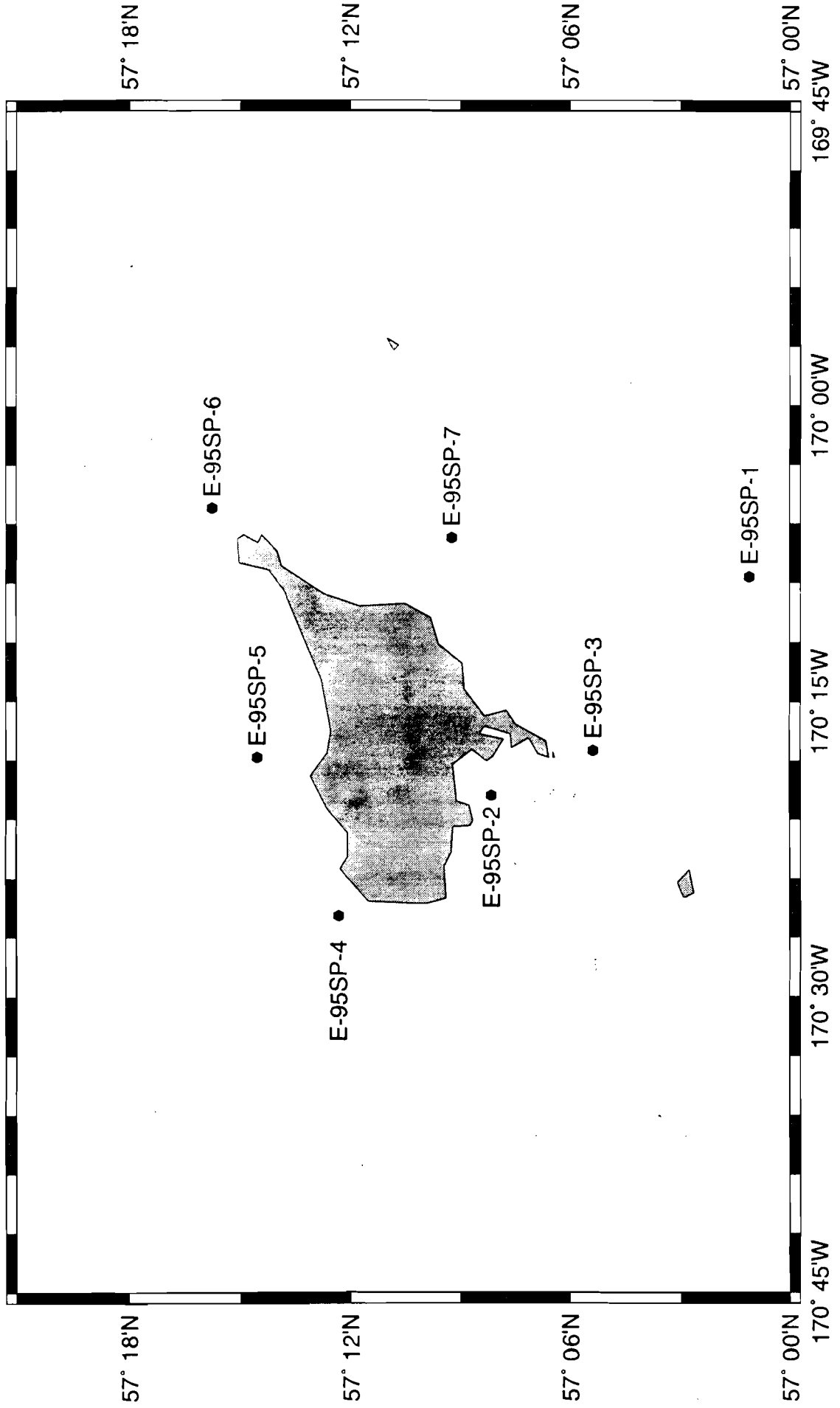
We would thank the C.O. John Clary and the officers and crew of the Miller Freeman for their cooperation and assistance in meeting and meeting the cruise objectives. Special thanks to the Field Operations Officer Dan Cheng and Chief Survey Tech Bill Floering and CB Rick Pietrusiak for their help and assistance.

Depart St. Paul, Alaska (platform on)	57°	07.6	N	170°	18.5	W									16-Sep	18:00
Recover EPA-3 mooring	57°	05.6	N	170°	15.6	W	2.5	2	0.1	6.5					16-Sep	18:06
Deployment of F-96BS-4 subsurface	57°	51.0	N	168°	52.0	W	63.9	10	6.4	5.5				17-Sep	06:59	
CTD	56°	16.3	N	165°	46.4	W	138.4	13	11.1	1.0				17-Sep	23:33	
CTD	56°	23.4	N	165°	23.5	W	14.5	9	1.6	1.0				18-Sep	02:10	
CTD	56°	30.5	N	164°	59.9	W	14.9	8	1.9	1.0				18-Sep	05:01	
CTD	56°	37.7	N	164°	36.3	W	14.9	10	1.5	1.0				18-Sep	07:31	
CTD	56°	52.0	N	164°	03.0	W	23.2	10	2.3	1.0				18-Sep	10:50	
Deployment of F-96BS-2 TRAP	56°	52.3	N	164°	03.0	W	0.3	10	0.0	1.5				18-Sep	11:51	
Attempted Recovery- F-BSM-2 TRAP	56°	52.3	N	164°	03.0	W	0.0	10	0.0	4.0				18-Sep	13:21	
Recovery- F-BSM-2 surface	56°	52.4	N	164°	03.2	W	0.2	10	0.0	2.5				18-Sep	17:23	
Deployment of F-96BS-2 subsurface	56°	52.4	N	164°	03.2	W	0.0	10	0.0	3.0				18-Sep	19:53	
Recovery- F-BSM-3 TRAP	56°	03.5	N	166°	19.9	W	89.9	8	11.2	4.5				19-Sep	10:07	
Recovery- F-BSM-3 surface	56°	03.6	N	166°	20.1	W	0.1	10	0.0	6.0				19-Sep	14:38	
CTD line	51°	55.0	N	173°	30.0	W	354.2	14	25.3	2.0				20-Sep	21:56	
CTD	51°	53.0	N	173°	33.0	W	2.7	10	0.3	2.0				21-Sep	00:12	
CTD	51°	50.0	N	173°	33.0	W	3.0	10	0.3	2.0				21-Sep	02:30	
CTD	51°	44.0	N	173°	32.0	W	6.0	10	0.6	2.0				21-Sep	05:06	
CTD	51°	38.0	N	173°	32.0	W	6.0	10	0.6	2.0				21-Sep	07:42	
CTD	51°	29.0	N	173°	32.0	W	9.0	10	0.9	2.0				21-Sep	10:36	
CTD	51°	14.0	N	173°	31.0	W	15.0	10	1.5	1.2				21-Sep	14:06	
CTD	51°	01.0	N	173°	33.0	W	13.1	13	1.0	2.1				21-Sep	16:19	
CTD	50°	43.0	N	173°	30.0	W	18.1	11	1.6	2.1				21-Sep	20:03	
CTD line	51°	14.0	N	170°	04.0	W	133.3	14	9.9	2.1				22-Sep	08:02	
CTD	51°	31.0	N	170°	12.0	W	17.7	11	1.6	2.3				22-Sep	11:45	
CTD	51°	46.0	N	170°	18.0	W	15.5	14	1.1	2.1				22-Sep	15:09	
CTD	51°	57.0	N	170°	23.0	W	11.4	14	0.8	2.2				22-Sep	18:04	
CTD	52°	05.0	N	170°	27.0	W	8.4	10	0.8	2.3				22-Sep	21:06	
CTD	52°	12.0	N	170°	31.0	W	7.4	14	0.5	2.1				22-Sep	23:56	
CTD	52°	20.0	N	170°	32.0	W	8.0	14	0.6	1.0				23-Sep	02:36	
CTD	52°	29.0	N	170°	34.0	W	9.1	14	0.6	1.0				23-Sep	04:15	
Attempted Recovery- F-BSM-2 TRAP	56°	52.3	N	164°	03.0	W	346.7	14	24.8	12.0				24-Sep	06:01	
Deployment of PG-96UP-5	54°	21.0	N	165°	45.0	W	161.9	13	12.5	1.0				25-Sep	06:28	
Deployment of PG-96UP-4	54°	22.0	N	164°	43.5	W	35.9	10	3.6	1.5				25-Sep	11:04	
Deployment of PG-96UP-3	54°	19.0	N	164°	45.0	W	3.1	10	0.3	2.2				25-Sep	12:52	
Deployment of PG-96UP-2	54°	16.2	N	164°	46.8	W	3.0	10	0.3	1.5				25-Sep	15:22	
ADCP Transect ( Unimak Pass)	54°	16.0	N	164°	46.0	W	0.5	10	0.1	0.9				25-Sep	16:55	
CTD ( Unimak Pass)	54°	19.0	N	164°	45.0	W	3.1	10	0.3	0.2				25-Sep	18:08	
Deployment of PG-1	54°	21.0	N	164°	03.0	W	24.6	13	1.9	0.9				25-Sep	20:13	
CTD	54°	35.8	N	158°	35.0	W	191.1	14	13.7	1.0				26-Sep	10:46	
CTD	54°	32.4	N	158°	32.3	W	3.7	14	0.3	1.3				26-Sep	12:02	
CTD	54°	24.5	N	158°	23.2	W	9.5	14	0.7	2.0				26-Sep	14:01	
CTD	54°	11.4	N	158°	04.5	W	17.0	14	1.2	2.0				26-Sep	17:14	
CTD	54°	06.8	N	158°	00.2	W	5.2	14	0.4	2.0				26-Sep	19:36	
F-9618	56°	31.6	N	156°	18.8	W	155.9	14	11.1	2.0				27-Sep	08:44	
F-9616	56°	40.3	N	156°	31.8	W	11.3	14	0.8	2.0				27-Sep	11:33	
FISHING	57°	35.0	N	155°	35.0	W	62.8	14	4.5	4.0				27-Sep	18:02	
CTD	57°	30.9	N	154°	47.0	W	26.1	11	2.4	0.6				28-Sep	00:24	
CTD	57°	33.1	N	154°	52.5	W	3.7	11	0.3	0.6				28-Sep	01:20	
CTD	57°	36.3	N	155°	00.5	W	5.4	11	0.5	0.6				28-Sep	02:25	
CTD	57°	38.5	N	155°	04.2	W	3.0	11	0.3	0.6				28-Sep	03:18	
CTD	57°	41.0	N	155°	10.0	W	4.0	11	0.4	0.6				28-Sep	04:15	
CTD	57°	43.2	N	155°	15.6	W	3.7	11	0.3	2.6				28-Sep	05:12	
F-9601	57°	40.9	N	155°	17.0	W	2.5	14	0.2	2.0				28-Sep	07:58	
F-9602	57°	36.9	N	155°	05.0	W	7.5	14	0.5	2.0				28-Sep	10:30	
F-9603	57°	29.8	N	154°	47.9	W	11.6	14	0.8	2.0				28-Sep	13:20	
TNG- Larsen Bay	57°	32.0	N	154°	00.0	W	25.8	14	1.8	0.0				28-Sep	17:11	



# EPA Mooring Deployment Locations

September 12, 1995



MILLER FREEMAN, R-223 SeaPlot Event Log File For MF-96-14  
 16 SEPT 96 Julian Date 260 Time Zone +8  
 EASTERN BERING SEA All Date & Time Entries in GMT

Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/16/96	05:38:24	OShip	N 56 48.88	W 170 24.35	293.3	11.3	0.0	SUNSET @0537
09/16/96	08:41:31	Helm	N 56 59.16	W 170 26.54	000.0	0.0	0.0	CTRBD UP
09/16/96	16:56:43	Helm	N 57 07.55	W 170 18.46	000.0	0.0	0.0	AT ANC ST PAUL
*****								
09/16/96	00:23:23	OShip	N 56 51.95	W 169 38.78	171.6	8.3	0.0	
09/16/96	00:23:24	Depth	N 56 51.95	W 169 38.78	000.0	0.0	71.1 m	
09/16/96	00:28:23	Depth	N 56 51.27	W 169 38.55	000.0	0.0	69.0 m	
09/16/96	00:28:24	OShip	N 56 51.27	W 169 38.54	172.0	8.3	0.0	
09/16/96	00:33:23	Depth	N 56 50.58	W 169 38.39	000.0	0.0	68.5 m	
09/16/96	00:33:24	OShip	N 56 50.58	W 169 38.39	174.6	8.3	0.0	
09/16/96	00:38:23	Depth	N 56 49.90	W 169 38.21	000.0	0.0	69.0 m	
09/16/96	00:38:24	OShip	N 56 49.90	W 169 38.21	171.8	8.3	0.0	
09/16/96	00:43:23	OShip	N 56 49.22	W 169 38.02	170.0	8.1	0.0	
09/16/96	00:43:23	Depth	N 56 49.22	W 169 38.02	000.0	0.0	68.8 m	
09/16/96	00:48:23	Depth	N 56 48.57	W 169 37.87	000.0	0.0	69.1 m	
09/16/96	00:48:24	OShip	N 56 48.56	W 169 37.87	173.0	8.1	0.0	
09/16/96	00:53:23	Depth	N 56 47.87	W 169 37.61	000.0	0.0	69.5 m	
09/16/96	00:53:24	OShip	N 56 47.87	W 169 37.61	167.1	8.6	0.0	
09/16/96	00:58:23	Depth	N 56 47.19	W 169 37.37	000.0	0.0	70.8 m	
09/16/96	00:58:24	OShip	N 56 47.18	W 169 37.36	169.8	8.8	0.0	
09/16/96	01:03:23	OShip	N 56 46.50	W 169 37.11	171.3	8.5	0.0	
09/16/96	01:03:23	Depth	N 56 46.50	W 169 37.11	000.0	0.0	70.5 m	
09/16/96	01:08:23	Depth	N 56 45.81	W 169 36.93	000.0	0.0	70.9 m	
09/16/96	01:08:24	OShip	N 56 45.81	W 169 36.93	173.3	8.5	0.0	
09/16/96	01:13:23	OShip	N 56 45.10	W 169 36.83	172.3	8.3	0.0	
09/16/96	01:13:24	Depth	N 56 45.10	W 169 36.83	000.0	0.0	75.3 m	
09/16/96	01:18:23	Depth	N 56 44.43	W 169 36.69	000.0	0.0	79.1 m	
09/16/96	01:18:24	OShip	N 56 44.42	W 169 36.68	175.8	8.1	0.0	
09/16/96	01:23:23	Depth	N 56 43.72	W 169 36.54	000.0	0.0	80.0 m	
09/16/96	01:23:25	OShip	N 56 43.72	W 169 36.54	174.8	8.6	0.0	
09/16/96	01:28:23	Depth	N 56 43.03	W 169 36.39	000.0	0.0	79.1 m	
09/16/96	01:28:24	OShip	N 56 43.02	W 169 36.38	171.1	8.5	0.0	
09/16/96	01:33:23	Depth	N 56 42.35	W 169 36.24	000.0	0.0	79.0 m	
09/16/96	01:33:24	OShip	N 56 42.35	W 169 36.24	174.1	8.3	0.0	
09/16/96	01:38:23	Depth	N 56 41.67	W 169 36.04	000.0	0.0	78.5 m	
09/16/96	01:38:24	OShip	N 56 41.66	W 169 36.03	171.1	8.8	0.0	
09/16/96	01:43:23	OShip	N 56 40.97	W 169 35.84	174.3	8.3	0.0	
09/16/96	01:43:24	Depth	N 56 40.97	W 169 35.84	000.0	0.0	78.5 m	
09/16/96	01:48:23	Depth	N 56 40.31	W 169 35.66	000.0	0.0	77.3 m	
09/16/96	01:48:24	OShip	N 56 40.30	W 169 35.66	170.6	8.1	0.0	
09/16/96	01:53:23	Depth	N 56 39.64	W 169 35.48	000.0	0.0	76.5 m	
09/16/96	01:53:24	OShip	N 56 39.63	W 169 35.48	170.5	8.0	0.0	
09/16/96	01:58:23	Depth	N 56 38.98	W 169 35.21	000.0	0.0	75.8 m	
09/16/96	01:58:24	OShip	N 56 38.97	W 169 35.21	169.0	8.3	0.0	
09/16/96	02:03:23	OShip	N 56 38.29	W 169 35.02	172.8	8.6	0.0	
09/16/96	02:03:23	Depth	N 56 38.29	W 169 35.02	000.0	0.0	71.0 m	
09/16/96	02:08:23	OShip	N 56 37.62	W 169 34.83	167.8	8.0	0.0	
09/16/96	02:08:23	Depth	N 56 37.62	W 169 34.83	000.0	0.0	59.0 m	

MILLER FREEMAN, R-223 SeaPlot Event Log File For MF-96-14  
 17 SEPT 96 Julian Date 261 Time Zone +8  
 EASTERN BERING SEA All Date & Time Entries in GMT

Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/17/96	01:36:05	OShip	N 57 07.53	W 170 18.48	338.5	0.6	0.0	COMMENCE 5 MINUTE FIXES
09/17/96	02:21:05	OShip	N 57 07.61	W 170 18.52	297.2	0.2	0.0	WEIGH ANCHOR DEP ST PAUL
09/17/96	05:36:05	OShip	N 57 05.14	W 170 17.07	282.2	0.6	0.0	SUNSET @0534
09/17/96	08:25:56	Helm	N 57 05.65	W 170 15.58	000.0	0.0	0.0	RECOVERED EPA MOORING DP=36
09/17/96	16:06:05	OShip	N 57 49.54	W 168 54.41	046.5	8.8	0.0	CNTBD DOWN
09/17/96	16:51:06	Depth	N 57 51.47	W 168 52.91	000.0	0.0	71.9 m	SUNRISE 1650
09/17/96	20:26:37	StTrp	N 57 51.16	W 168 52.08	000.0	0.0	0.0	DEPLOYED BS4 DP=71
09/17/96	20:47:16	StTrp	N 57 51.11	W 168 51.62	000.0	0.0	0.0	CTD01 DP=72
09/17/96	21:19:06	StTrp	N 57 51.19	W 168 51.82	000.0	0.0	0.0	CTD02 DP=72
*****								
09/17/96	00:23:23	Depth	N 57 07.55	W 170 18.45	000.0	0.0	20.0 m	
09/17/96	00:23:24	OShip	N 57 07.55	W 170 18.45	001.2	0.1	0.0	
09/17/96	00:53:23	Depth	N 57 07.55	W 170 18.50	000.0	0.0	19.8 m	
09/17/96	00:53:24	OShip	N 57 07.55	W 170 18.50	245.6	0.3	0.0	
09/17/96	01:23:23	Depth	N 57 07.56	W 170 18.55	000.0	0.0	20.1 m	
09/17/96	01:23:25	OShip	N 57 07.56	W 170 18.55	278.1	0.6	0.0	
09/17/96	01:36:05	OShip	N 57 07.53	W 170 18.48	338.5	0.6	0.0	COMMENCE 5 MINUTE FIXES
09/17/96	01:36:06	Depth	N 57 07.53	W 170 18.48	000.0	0.0	20.0 m	
09/17/96	01:41:07	OShip	N 57 07.53	W 170 18.49	125.9	0.2	0.0	
09/17/96	01:41:07	Depth	N 57 07.53	W 170 18.49	000.0	0.0	20.1 m	
09/17/96	01:46:06	OShip	N 57 07.54	W 170 18.46	123.1	0.5	0.0	
09/17/96	01:46:06	Depth	N 57 07.54	W 170 18.46	000.0	0.0	20.2 m	
09/17/96	01:51:06	Depth	N 57 07.55	W 170 18.48	000.0	0.0	20.1 m	
09/17/96	01:51:07	OShip	N 57 07.55	W 170 18.48	271.3	0.5	0.0	
09/17/96	01:56:06	OShip	N 57 07.57	W 170 18.52	051.7	0.2	0.0	
09/17/96	01:56:06	Depth	N 57 07.57	W 170 18.52	000.0	0.0	20.0 m	
09/17/96	02:01:06	Depth	N 57 07.51	W 170 18.55	000.0	0.0	20.2 m	
09/17/96	02:01:07	OShip	N 57 07.51	W 170 18.54	155.1	0.1	0.0	
09/17/96	02:06:06	OShip	N 57 07.55	W 170 18.47	053.5	0.3	0.0	
09/17/96	02:06:06	Depth	N 57 07.55	W 170 18.47	000.0	0.0	19.7 m	
09/17/96	02:11:06	OShip	N 57 07.56	W 170 18.49	318.0	0.6	0.0	
09/17/96	02:11:06	Depth	N 57 07.56	W 170 18.49	000.0	0.0	19.8 m	
09/17/96	02:16:05	OShip	N 57 07.58	W 170 18.53	345.7	0.3	0.0	
09/17/96	02:16:06	Depth	N 57 07.58	W 170 18.53	000.0	0.0	19.7 m	
09/17/96	02:21:05	OShip	N 57 07.61	W 170 18.52	297.2	0.2	0.0	WEIGH ANCHOR DEP ST PAUL
09/17/96	02:21:06	Depth	N 57 07.61	W 170 18.52	000.0	0.0	20.0 m	
09/17/96	02:26:05	OShip	N 57 07.32	W 170 18.91	217.0	6.0	0.0	
09/17/96	02:26:06	Depth	N 57 07.32	W 170 18.91	000.0	0.0	23.2 m	
09/17/96	02:31:05	OShip	N 57 06.84	W 170 19.71	218.8	7.9	0.0	
09/17/96	02:31:06	Depth	N 57 06.84	W 170 19.71	000.0	0.0	30.6 m	
09/17/96	02:36:05	OShip	N 57 06.28	W 170 20.11	166.1	6.9	0.0	
09/17/96	02:36:07	Depth	N 57 06.28	W 170 20.11	000.0	0.0	37.4 m	
09/17/96	02:41:06	OShip	N 57 05.62	W 170 19.52	156.3	9.0	0.0	
09/17/96	02:41:06	Depth	N 57 05.62	W 170 19.52	000.0	0.0	38.0 m	
09/17/96	02:46:06	Depth	N 57 05.35	W 170 18.49	000.0	0.0	33.7 m	
09/17/96	02:46:07	OShip	N 57 05.34	W 170 18.48	111.3	7.5	0.0	

MILLER FREEMAN, R-223 SeaPlot Event Log File For MF-96-14  
 18 SEPT 96 Julian Date 262 Time Zone +8  
 EASTERN BERING SEA All Date & Time Entries in GMT

Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/18/96	05:17:16	Weath	N 56 40.62	W 166 33.61	000.0	0.0	0.0	SUNSET
09/18/96	08:16:43	StTrp	N 56 16.37	W 165 46.13	000.0	0.0	0.0	CTD03 DP=92
09/18/96	11:09:35	StTrp	N 56 23.47	W 165 23.34	000.0	0.0	0.0	CTD04 DP=86
09/18/96	14:02:05	StTrp	N 56 30.47	W 164 59.56	000.0	0.0	0.0	CTD05 DP=81
09/18/96	16:23:53	StTrp	N 56 37.92	W 164 36.45	000.0	0.0	0.0	CTD06 DP=76.5
09/18/96	16:36:06	Depth	N 56 38.43	W 164 35.28	000.0	0.0	76.0 m	SUNRISE
09/18/96	19:41:03	StTrp	N 56 52.36	W 164 02.52	000.0	0.0	0.0	CTD07 DP=72.1
09/18/96	21:14:44	StTrp	N 56 52.25	W 164 03.47	000.0	0.0	0.0	DEPLOYED BS2TRAP DP=72.6
09/18/96	22:14:31	StTrp	N 56 52.36	W 164 02.80	000.0	0.0	0.0	RELEASE SENT FOR OLD TRAP
09/18/96	23:06:40	StTrp	N 56 52.26	W 164 03.15	000.0	0.0	0.0	RELEASE2 SENT

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09/18/96	00:01:06	OShip	N 57 29.28	W 168 07.37	133.1	13.6	0.0	
09/18/96	00:01:07	Depth	N 57 29.28	W 168 07.37	000.0	0.0	71.0 m	
09/18/96	00:06:05	OShip	N 57 28.47	W 168 05.84	136.8	14.0	0.0	
09/18/96	00:06:06	Depth	N 57 28.47	W 168 05.84	000.0	0.0	71.5 m	
09/18/96	00:11:06	Depth	N 57 27.65	W 168 04.38	000.0	0.0	71.1 m	
09/18/96	00:11:07	OShip	N 57 27.64	W 168 04.37	135.8	14.1	0.0	
09/18/96	00:16:05	OShip	N 57 26.83	W 168 02.89	135.8	13.8	0.0	
09/18/96	00:16:06	Depth	N 57 26.83	W 168 02.89	000.0	0.0	72.0 m	
09/18/96	00:21:06	OShip	N 57 26.01	W 168 01.42	136.6	13.6	0.0	
09/18/96	00:21:07	Depth	N 57 26.01	W 168 01.42	000.0	0.0	71.0 m	
09/18/96	00:26:05	OShip	N 57 25.19	W 168 00.01	136.0	13.6	0.0	
09/18/96	00:26:06	Depth	N 57 25.19	W 168 00.01	000.0	0.0	73.5 m	
09/18/96	00:31:05	OShip	N 57 24.39	W 167 58.47	134.1	14.0	0.0	
09/18/96	00:31:07	Depth	N 57 24.39	W 167 58.47	000.0	0.0	71.5 m	
09/18/96	00:36:05	OShip	N 57 23.63	W 167 56.94	134.3	13.6	0.0	
09/18/96	00:36:06	Depth	N 57 23.63	W 167 56.94	000.0	0.0	74.3 m	
09/18/96	00:41:05	OShip	N 57 22.85	W 167 55.42	133.6	13.6	0.0	
09/18/96	00:41:06	Depth	N 57 22.85	W 167 55.42	000.0	0.0	73.0 m	
09/18/96	00:46:05	OShip	N 57 22.06	W 167 53.88	134.1	13.8	0.0	
09/18/96	00:46:06	Depth	N 57 22.06	W 167 53.88	000.0	0.0	73.4 m	
09/18/96	00:51:05	OShip	N 57 21.25	W 167 52.33	134.6	14.1	0.0	
09/18/96	00:51:06	Depth	N 57 21.25	W 167 52.33	000.0	0.0	74.1 m	
09/18/96	00:56:06	OShip	N 57 20.46	W 167 50.81	133.6	13.6	0.0	
09/18/96	00:56:06	Depth	N 57 20.46	W 167 50.81	000.0	0.0	71.9 m	
09/18/96	01:01:06	OShip	N 57 19.72	W 167 49.24	132.1	13.3	0.0	
09/18/96	01:01:06	Depth	N 57 19.72	W 167 49.24	000.0	0.0	74.0 m	
09/18/96	01:06:05	OShip	N 57 18.98	W 167 47.72	132.0	13.3	0.0	
09/18/96	01:06:06	Depth	N 57 18.98	W 167 47.72	000.0	0.0	73.0 m	
09/18/96	01:11:06	OShip	N 57 18.24	W 167 46.17	131.3	13.5	0.0	
09/18/96	01:11:06	Depth	N 57 18.24	W 167 46.17	000.0	0.0	74.4 m	
09/18/96	01:16:06	OShip	N 57 17.46	W 167 44.61	133.3	13.6	0.0	
09/18/96	01:16:06	Depth	N 57 17.46	W 167 44.61	000.0	0.0	73.9 m	
09/18/96	01:21:05	OShip	N 57 16.71	W 167 43.05	131.1	13.6	0.0	
09/18/96	01:21:06	Depth	N 57 16.71	W 167 43.05	000.0	0.0	73.5 m	
09/18/96	01:26:06	OShip	N 57 15.97	W 167 41.48	132.8	13.8	0.0	
09/18/96	01:26:06	Depth	N 57 15.97	W 167 41.48	000.0	0.0	77.1 m	



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Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/19/96	03:31:39	Helm	N 56 52.27	W 164 06.36	000.0	0.0	0.0	RECOVERED LAST ITEM BSM2 SURFACE DP=72
09/19/96	05:05:42	StTrp	N 56 51.85	W 164 02.88	000.0	0.0	0.0	SUNSET @0503
09/19/96	06:44:48	StTrp	N 56 52.48	W 164 02.97	000.0	0.0	0.0	DEPLOYED BS2SUB DP=71.7
09/19/96	07:06:16	Helm	N 56 52.59	W 164 02.60	000.0	0.0	0.0	CTD08 DP=72.7
09/19/96	08:16:45	Helm	N 56 47.00	W 164 18.59	000.0	0.0	0.0	RETURN TO BS2 TRAP C/C060
09/19/96	09:23:01	StTrp	N 56 52.02	W 164 03.90	000.0	0.0	0.0	DISABLE OLD BS2 TRAP
09/19/96	09:23:32	StTrp	N 56 51.99	W 164 04.00	000.0	0.0	0.0	S/C237 S/S165/11
09/19/96	16:46:06	OShip	N 56 06.89	W 166 10.36	238.8	10.6	0.0	SUNRISE @ 1644
09/19/96	17:37:08	StTrp	N 56 03.53	W 166 20.32	000.0	0.0	0.0	CTD09 DP=119.5
09/19/96	18:25:54	StTrp	N 56 03.46	W 166 20.21	000.0	0.0	0.0	RELEASE CODE SENT FOR TRAP
09/19/96	22:18:17	StTrp	N 56 03.39	W 166 20.26	000.0	0.0	0.0	RECOVERY TRAP BS3
09/19/96	23:13:41	StTrp	N 56 03.58	W 166 19.85	000.0	0.0	0.0	WX PACK REMOVED FROM BS3 SURFACE
09/19/96	23:32:12	StTrp	N 56 03.56	W 166 19.78	000.0	0.0	0.0	RELEASE CODE SENT FOR SURFACE
09/19/96	23:59:05	StTrp	N 56 03.18	W 166 19.90	000.0	0.0	0.0	COMMENCE RECOVERERY BSM3 SURFACE DEP=120.5
*****								
09/19/96	00:01:05	OShip	N 56 52.23	W 164 03.02	314.6	1.6	0.0	
09/19/96	00:01:06	Depth	N 56 52.23	W 164 03.02	000.0	0.0	72.1 m	
09/19/96	00:06:06	Depth	N 56 52.32	W 164 03.21	000.0	0.0	73.9 m	
09/19/96	00:06:07	OShip	N 56 52.33	W 164 03.22	313.3	2.2	0.0	
09/19/96	00:11:06	OShip	N 56 52.51	W 164 03.34	335.3	1.6	0.0	
09/19/96	00:11:06	Depth	N 56 52.51	W 164 03.34	000.0	0.0	72.1 m	
09/19/96	00:16:05	OShip	N 56 52.43	W 164 03.08	179.3	4.5	0.0	
09/19/96	00:16:06	Depth	N 56 52.43	W 164 03.08	000.0	0.0	70.3 m	
09/19/96	00:21:06	OShip	N 56 52.30	W 164 03.28	264.8	1.1	0.0	
09/19/96	00:21:06	Depth	N 56 52.30	W 164 03.28	000.0	0.0	73.0 m	
09/19/96	00:26:05	OShip	N 56 52.26	W 164 03.45	299.2	1.0	0.0	
09/19/96	00:26:06	Depth	N 56 52.26	W 164 03.45	000.0	0.0	72.0 m	
09/19/96	00:31:06	OShip	N 56 52.21	W 164 03.51	245.1	1.5	0.0	
09/19/96	00:31:06	Depth	N 56 52.21	W 164 03.51	000.0	0.0	72.0 m	
09/19/96	00:36:06	OShip	N 56 52.26	W 164 03.49	035.7	2.0	0.0	
09/19/96	00:36:07	Depth	N 56 52.26	W 164 03.49	000.0	0.0	71.4 m	
09/19/96	00:41:05	OShip	N 56 52.33	W 164 02.99	053.0	1.1	0.0	
09/19/96	00:41:06	Depth	N 56 52.33	W 164 02.99	000.0	0.0	71.9 m	
09/19/96	00:46:05	OShip	N 56 52.26	W 164 02.83	123.0	1.2	0.0	
09/19/96	00:46:06	Depth	N 56 52.26	W 164 02.83	000.0	0.0	72.5 m	
09/19/96	00:51:05	OShip	N 56 52.39	W 164 02.99	308.7	2.7	0.0	
09/19/96	00:51:06	Depth	N 56 52.39	W 164 02.99	000.0	0.0	72.6 m	
09/19/96	00:56:05	OShip	N 56 52.52	W 164 03.34	299.3	2.9	0.0	
09/19/96	00:56:06	Depth	N 56 52.52	W 164 03.34	000.0	0.0	72.0 m	
09/19/96	01:01:05	OShip	N 56 52.36	W 164 03.58	145.1	4.1	0.0	
09/19/96	01:01:06	Depth	N 56 52.36	W 164 03.58	000.0	0.0	71.3 m	
09/19/96	01:06:06	Depth	N 56 52.12	W 164 03.08	000.0	0.0	71.3 m	
09/19/96	01:06:07	OShip	N 56 52.12	W 164 03.08	122.4	3.9	0.0	
09/19/96	01:11:05	OShip	N 56 51.96	W 164 02.63	122.8	3.7	0.0	

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Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/20/96	01:50:41	Helm	N 56 00.63	W 166 22.58	000.0	0.0	0.0	COMPLETE BS3 SURFACE RECOVERY DEP=123
09/20/96	05:14:22	StTrp	N 55 24.52	W 167 02.75	000.0	0.0	0.0	SUNSET @0512
09/20/96	16:59:14	Depth	N 53 11.33	W 169 24.22	000.0	0.0	1468.1 m	SUNRISE 1700
*****								
09/20/96	00:01:06	OShip	N 56 03.11	W 166 19.95	204.3	2.0	0.0	
09/20/96	00:01:06	Depth	N 56 03.11	W 166 19.95	000.0	0.0	120.5 m	
09/20/96	00:06:05	OShip	N 56 02.96	W 166 20.04	201.1	1.8	0.0	
09/20/96	00:06:06	Depth	N 56 02.96	W 166 20.04	000.0	0.0	120.8 m	
09/20/96	00:11:06	Depth	N 56 02.83	W 166 20.12	000.0	0.0	120.5 m	
09/20/96	00:11:09	OShip	N 56 02.82	W 166 20.12	198.3	1.8	0.0	
09/20/96	00:16:06	Depth	N 56 02.69	W 166 20.20	000.0	0.0	120.8 m	
09/20/96	00:16:13	OShip	N 56 02.68	W 166 20.21	195.8	1.7	0.0	
09/20/96	00:21:06	OShip	N 56 02.53	W 166 20.28	192.1	1.8	0.0	
09/20/96	00:21:08	Depth	N 56 02.53	W 166 20.28	000.0	0.0	120.5 m	
09/20/96	00:26:06	OShip	N 56 02.36	W 166 20.23	161.6	2.0	0.0	
09/20/96	00:26:06	Depth	N 56 02.36	W 166 20.23	000.0	0.0	120.3 m	
09/20/96	00:31:06	OShip	N 56 02.21	W 166 20.13	166.1	2.2	0.0	
09/20/96	00:31:06	Depth	N 56 02.21	W 166 20.13	000.0	0.0	120.5 m	
09/20/96	00:36:05	OShip	N 56 02.06	W 166 20.21	218.8	1.6	0.0	
09/20/96	00:36:06	Depth	N 56 02.06	W 166 20.21	000.0	0.0	121.4 m	
09/20/96	00:41:05	OShip	N 56 01.96	W 166 20.38	229.1	1.6	0.0	
09/20/96	00:41:07	Depth	N 56 01.96	W 166 20.38	000.0	0.0	120.6 m	
09/20/96	00:46:06	OShip	N 56 01.85	W 166 20.55	223.3	1.6	0.0	
09/20/96	00:46:06	Depth	N 56 01.85	W 166 20.55	000.0	0.0	122.3 m	
09/20/96	00:51:05	OShip	N 56 01.76	W 166 20.72	229.8	1.7	0.0	
09/20/96	00:51:06	Depth	N 56 01.76	W 166 20.72	000.0	0.0	121.1 m	
09/20/96	00:56:05	OShip	N 56 01.67	W 166 20.86	207.6	1.2	0.0	
09/20/96	00:56:06	Depth	N 56 01.67	W 166 20.86	000.0	0.0	121.5 m	
09/20/96	01:01:06	OShip	N 56 01.57	W 166 20.98	219.6	1.6	0.0	
09/20/96	01:01:06	Depth	N 56 01.57	W 166 20.98	000.0	0.0	121.9 m	
09/20/96	01:06:06	OShip	N 56 01.48	W 166 21.14	223.3	1.6	0.0	
09/20/96	01:06:06	Depth	N 56 01.48	W 166 21.14	000.0	0.0	122.0 m	
09/20/96	01:11:06	OShip	N 56 01.39	W 166 21.28	227.1	1.2	0.0	
09/20/96	01:11:06	Depth	N 56 01.39	W 166 21.28	000.0	0.0	122.3 m	
09/20/96	01:16:06	Depth	N 56 01.29	W 166 21.37	000.0	0.0	121.9 m	
09/20/96	01:16:08	OShip	N 56 01.29	W 166 21.38	216.0	1.2	0.0	
09/20/96	01:21:06	Depth	N 56 01.20	W 166 21.53	000.0	0.0	122.5 m	
09/20/96	01:21:07	OShip	N 56 01.20	W 166 21.53	223.6	1.5	0.0	
09/20/96	01:26:06	OShip	N 56 01.09	W 166 21.71	225.1	1.6	0.0	
09/20/96	01:26:06	Depth	N 56 01.09	W 166 21.71	000.0	0.0	122.4 m	
09/20/96	01:31:06	Depth	N 56 01.00	W 166 21.87	000.0	0.0	123.0 m	
09/20/96	01:31:07	OShip	N 56 01.00	W 166 21.87	221.8	1.6	0.0	
09/20/96	01:36:06	Depth	N 56 00.91	W 166 22.07	000.0	0.0	123.1 m	
09/20/96	01:36:07	OShip	N 56 00.91	W 166 22.07	232.1	1.7	0.0	
09/20/96	01:41:06	OShip	N 56 00.81	W 166 22.28	234.1	1.7	0.0	
09/20/96	01:41:06	Depth	N 56 00.81	W 166 22.28	000.0	0.0	123.8 m	
09/20/96	01:46:06	Depth	N 56 00.71	W 166 22.40	000.0	0.0	123.0 m	

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Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/21/96	05:33:33	StTrp N	51 56.17	W 173 07.54	000.0	0.0	0.0	SUNSET
09/21/96	06:47:20	StTrp N	51 55.01	W 173 29.89	000.0	0.0	0.0	CTD10 DP=123
09/21/96	07:23:58	StTrp N	51 52.93	W 173 33.32	000.0	0.0	0.0	CTD11 DP=217
09/21/96	08:29:44	StTrp N	51 50.13	W 173 32.83	000.0	0.0	0.0	CTD12 DP=1188
09/21/96	09:04:46	Depth N	51 49.93	W 173 32.69	000.0	0.0	1201.0 m	DEPTHS LISTED BEYOND HERE ARE NO GOOD , EK-500 DEPTHS INEFFECTIVE PAST 1200M DEPTHS ASSOCIATED WITH CTDs ARE FROM 12KHZ OR DEPTH ON CHART
09/21/96	10:50:20	StTrp N	51 44.02	W 173 32.79	000.0	0.0	0.0	CTD13 DP=3375M/DOC
09/21/96	14:23:51	StTrp N	51 38.10	W 173 32.02	000.0	0.0	0.0	CTD14 DP=2225F W/O2750
09/21/96	17:19:57	StTrp N	51 29.05	W 173 32.12	000.0	0.0	0.0	SUNRISE
09/21/96	17:50:31	StTrp N	51 29.11	W 173 32.07	000.0	0.0	0.0	CTD15 DP=3977
09/21/96	21:44:14	StTrp N	51 14.26	W 173 31.64	000.0	0.0	0.0	CTD16 DP=4022M W/O 2700
*****								
09/21/96	00:04:45	OShip N	52 16.12	W 171 20.09	234.1	13.6	0.0	
09/21/96	00:04:45	Depth N	52 16.12	W 171 20.09	000.0	0.0	562.4 m	
09/21/96	00:09:45	OShip N	52 15.51	W 171 21.55	236.5	12.3	0.0	
09/21/96	00:09:46	Depth N	52 15.51	W 171 21.55	000.0	0.0	554.5 m	
09/21/96	00:14:44	OShip N	52 14.87	W 171 23.07	236.0	13.1	0.0	
09/21/96	00:14:45	Depth N	52 14.87	W 171 23.07	000.0	0.0	549.7 m	
09/21/96	00:19:44	OShip N	52 14.25	W 171 24.51	236.8	12.8	0.0	
09/21/96	00:19:47	Depth N	52 14.24	W 171 24.53	000.0	0.0	541.0 m	
09/21/96	00:24:45	OShip N	52 13.64	W 171 26.05	239.8	13.5	0.0	
09/21/96	00:24:45	Depth N	52 13.64	W 171 26.05	000.0	0.0	511.5 m	
09/21/96	00:29:46	Depth N	52 13.03	W 171 27.56	000.0	0.0	466.3 m	
09/21/96	00:29:47	OShip N	52 13.03	W 171 27.57	236.0	13.5	0.0	
09/21/96	00:34:45	OShip N	52 12.39	W 171 29.04	236.1	13.3	0.0	
09/21/96	00:34:46	Depth N	52 12.39	W 171 29.04	000.0	0.0	560.7 m	
09/21/96	00:39:45	OShip N	52 11.72	W 171 30.54	232.8	13.8	0.0	
09/21/96	00:39:45	Depth N	52 11.72	W 171 30.54	000.0	0.0	725.2 m	
09/21/96	00:44:44	OShip N	52 11.04	W 171 32.03	234.0	13.6	0.0	
09/21/96	00:44:46	Depth N	52 11.04	W 171 32.03	000.0	0.0	710.5 m	
09/21/96	00:49:44	OShip N	52 10.41	W 171 33.55	236.3	13.6	0.0	
09/21/96	00:49:45	Depth N	52 10.41	W 171 33.55	000.0	0.0	662.0 m	
09/21/96	00:54:44	OShip N	52 09.74	W 171 34.92	231.1	13.0	0.0	
09/21/96	00:54:46	Depth N	52 09.73	W 171 34.93	000.0	0.0	624.4 m	
09/21/96	00:59:44	OShip N	52 09.08	W 171 36.27	231.5	12.8	0.0	
09/21/96	00:59:46	Depth N	52 09.08	W 171 36.27	000.0	0.0	598.5 m	
09/21/96	01:04:44	OShip N	52 08.46	W 171 37.73	239.3	13.3	0.0	
09/21/96	01:04:46	Depth N	52 08.46	W 171 37.74	000.0	0.0	574.0 m	
09/21/96	01:09:44	OShip N	52 07.90	W 171 39.24	240.8	13.3	0.0	
09/21/96	01:09:46	Depth N	52 07.90	W 171 39.25	000.0	0.0	560.7 m	
09/21/96	01:14:44	OShip N	52 07.37	W 171 40.78	239.1	13.0	0.0	
09/21/96	01:14:46	Depth N	52 07.37	W 171 40.78	000.0	0.0	576.5 m	
09/21/96	01:19:45	OShip N	52 06.83	W 171 42.33	240.3	13.0	0.0	
09/21/96	01:19:46	Depth N	52 06.83	W 171 42.33	000.0	0.0	646.7 m	
09/21/96	01:24:44	OShip N	52 06.30	W 171 43.85	241.3	12.8	0.0	
09/21/96	01:24:45	Depth N	52 06.30	W 171 43.85	000.0	0.0	554.4 m	
09/21/96	01:29:44	OShip N	52 05.82	W 171 45.31	245.6	12.8	0.0	

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09/22/96	01:26:46	StTrp N 51	01.47 W	173 32.67	000.0	0.0	0.0	CTD17 DP=4012
09/22/96	05:18:22	StTrp N 50	42.77 W	173 30.22	000.0	0.0	0.0	CTD18 DP=3945
09/22/96	05:32:52	StTrp N 50	42.79 W	173 30.23	000.0	0.0	0.0	SUNSET
09/22/96	17:07:51	StTrp N 51	14.29 W	170 05.01	000.0	0.0	0.0	SUNRISE
09/22/96	17:19:49	StTrp N 51	14.40 W	170 05.24	000.0	0.0	0.0	CTD 19 DP=7000+M DOC
09/22/96	20:51:21	StTrp N 51	31.25 W	170 12.39	000.0	0.0	0.0	CTD20 DP=3745
*****								
09/22/96	00:04:15	Depth N 51	01.53 W	173 32.94	000.0	0.0	875.7 m	
09/22/96	00:04:46	OShip N 51	01.42 W	173 32.90	173.6	11.5	0.0	
09/22/96	00:09:15	Depth N 51	00.97 W	173 32.65	000.0	0.0	876.2 m	
09/22/96	00:09:45	OShip N 51	00.95 W	173 32.66	173.8	2.7	0.0	
09/22/96	00:14:15	Depth N 51	00.84 W	173 32.90	000.0	0.0	50.0 m	
09/22/96	00:14:44	OShip N 51	00.84 W	173 32.91	255.8	1.7	0.0	
09/22/96	00:19:21	Depth N 51	00.89 W	173 33.00	000.0	0.0	268.1 m	
09/22/96	00:19:45	OShip N 51	00.90 W	173 33.01	320.7	0.8	0.0	
09/22/96	00:24:15	Depth N 51	00.95 W	173 32.98	000.0	0.0	266.2 m	
09/22/96	00:24:44	OShip N 51	00.95 W	173 32.97	061.9	0.6	0.0	
09/22/96	00:29:18	Depth N 51	01.01 W	173 32.99	000.0	0.0	31.2 m	
09/22/96	00:29:44	OShip N 51	01.02 W	173 32.99	004.0	0.8	0.0	
09/22/96	00:34:17	Depth N 51	01.08 W	173 32.96	000.0	0.0	37.0 m	
09/22/96	00:34:47	OShip N 51	01.09 W	173 32.96	358.5	0.8	0.0	
09/22/96	00:39:15	Depth N 51	01.13 W	173 32.93	000.0	0.0	45.2 m	
09/22/96	00:39:45	OShip N 51	01.13 W	173 32.92	066.5	0.6	0.0	
09/22/96	00:44:15	Depth N 51	01.13 W	173 32.89	000.0	0.0	30.8 m	
09/22/96	00:44:44	OShip N 51	01.14 W	173 32.88	019.2	0.8	0.0	
09/22/96	00:49:15	Depth N 51	01.20 W	173 32.86	000.0	0.0	258.2 m	
09/22/96	00:49:45	OShip N 51	01.21 W	173 32.87	354.8	1.1	0.0	
09/22/96	00:54:15	Depth N 51	01.26 W	173 32.91	000.0	0.0	41.0 m	
09/22/96	00:54:45	OShip N 51	01.27 W	173 32.91	337.5	0.8	0.0	
09/22/96	00:59:15	Depth N 51	01.33 W	173 32.93	000.0	0.0	37.0 m	
09/22/96	00:59:44	OShip N 51	01.34 W	173 32.92	021.8	1.0	0.0	
09/22/96	01:04:16	Depth N 51	01.37 W	173 32.87	000.0	0.0	43.5 m	
09/22/96	01:04:44	OShip N 51	01.37 W	173 32.87	050.2	0.5	0.0	
09/22/96	01:09:15	Depth N 51	01.36 W	173 32.77	000.0	0.0	29.2 m	
09/22/96	01:09:44	OShip N 51	01.36 W	173 32.77	105.4	0.5	0.0	
09/22/96	01:14:15	Depth N 51	01.36 W	173 32.76	000.0	0.0	31.1 m	
09/22/96	01:14:45	OShip N 51	01.36 W	173 32.75	141.3	0.5	0.0	
09/22/96	01:19:15	Depth N 51	01.38 W	173 32.71	000.0	0.0	45.7 m	
09/22/96	01:19:44	OShip N 51	01.39 W	173 32.70	031.2	1.1	0.0	
09/22/96	01:24:16	Depth N 51	01.45 W	173 32.70	000.0	0.0	25.8 m	
09/22/96	01:24:44	OShip N 51	01.45 W	173 32.69	020.7	0.5	0.0	
09/22/96	01:26:46	StTrp N 51	01.47 W	173 32.67	000.0	0.0	0.0	CTD17 DEP=4012
09/22/96	01:29:15	Depth N 51	01.51 W	173 32.64	000.0	0.0	259.7 m	
09/22/96	01:29:45	OShip N 51	01.51 W	173 32.63	045.5	0.8	0.0	
09/22/96	01:34:47	OShip N 51	01.59 W	173 32.64	029.1	0.6	0.0	
09/22/96	01:34:57	Depth N 51	01.59 W	173 32.63	000.0	0.0	270.1 m	
09/22/96	01:39:15	Depth N 51	01.62 W	173 32.56	000.0	0.0	42.7 m	
09/22/96	01:39:45	OShip N 51	01.62 W	173 32.55	031.0	1.2	0.0	

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Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/23/96	00:21:24	StTrp	N 51 46.39	W 170 18.19	000.0	0.0	0.0	CTD21 DP=3745
09/23/96	03:18:45	StTrp	N 51 57.29	W 170 22.03	000.0	0.0	0.0	CTD22 DEP=3445
09/23/96	05:19:44	OShip	N 52 04.55	W 170 26.54	081.5	1.5	0.0	SUNSET @ 0518
09/23/96	06:41:40	StTrp	N 52 04.61	W 170 26.31	000.0	0.0	0.0	CTD23 DP=2879
09/23/96	09:08:06	StTrp	N 52 12.08	W 170 31.19	000.0	0.0	0.0	CTD24 DP=1236
09/23/96	10:47:35	StTrp	N 52 19.83	W 170 32.08	000.0	0.0	0.0	CTD25 DP=513
09/23/96	12:12:08	StTrp	N 52 28.81	W 170 34.08	000.0	0.0	0.0	CTD26 DEP=290
09/23/96	17:05:45	StTrp	N 52 58.11	W 169 23.02	000.0	0.0	0.0	SUNRISE DP=572.3
*****								
09/23/96	00:02:00	Depth	N 51 46.28	W 170 18.15	000.0	0.0	224.1	m
09/23/96	00:04:48	OShip	N 51 46.31	W 170 18.17	332.7	0.6	0.0	
09/23/96	00:06:45	Depth	N 51 46.33	W 170 18.18	000.0	0.0	362.3	m
09/23/96	00:09:45	OShip	N 51 46.35	W 170 18.16	017.8	0.4	0.0	
09/23/96	00:11:23	Depth	N 51 46.35	W 170 18.17	000.0	0.0	21.0	m
09/23/96	00:14:49	OShip	N 51 46.37	W 170 18.19	337.6	0.2	0.0	
09/23/96	00:16:23	Depth	N 51 46.37	W 170 18.19	000.0	0.0	20.0	m
09/23/96	00:19:45	OShip	N 51 46.39	W 170 18.18	040.4	0.2	0.0	
09/23/96	00:21:24	StTrp	N 51 46.39	W 170 18.19	000.0	0.0	0.0	CTD21 DP=3745
09/23/96	00:21:48	Depth	N 51 46.39	W 170 18.19	000.0	0.0	91.1	m
09/23/96	00:29:45	OShip	N 51 46.44	W 170 18.14	027.2	0.5	0.0	
09/23/96	00:31:29	Depth	N 51 46.45	W 170 18.15	000.0	0.0	113.9	m
09/23/96	00:34:45	OShip	N 51 46.46	W 170 18.15	032.9	0.4	0.0	
09/23/96	00:37:26	Depth	N 51 46.49	W 170 18.14	000.0	0.0	20.2	m
09/23/96	00:39:44	OShip	N 51 46.50	W 170 18.11	036.7	0.5	0.0	
09/23/96	00:41:27	Depth	N 51 46.52	W 170 18.12	000.0	0.0	369.7	m
09/23/96	00:44:46	OShip	N 51 46.53	W 170 18.15	323.1	0.2	0.0	
09/23/96	00:46:25	Depth	N 51 46.54	W 170 18.16	000.0	0.0	1434.4	m
09/23/96	00:49:45	OShip	N 51 46.56	W 170 18.19	318.8	0.6	0.0	
09/23/96	00:51:25	Depth	N 51 46.58	W 170 18.20	000.0	0.0	1181.6	m
09/23/96	00:54:45	OShip	N 51 46.60	W 170 18.20	285.0	0.1	0.0	
09/23/96	00:56:24	Depth	N 51 46.60	W 170 18.20	000.0	0.0	921.5	m
09/23/96	00:59:47	OShip	N 51 46.64	W 170 18.23	305.5	0.6	0.0	
09/23/96	01:01:23	Depth	N 51 46.63	W 170 18.26	000.0	0.0	668.9	m
09/23/96	01:04:46	OShip	N 51 46.66	W 170 18.30	324.2	0.6	0.0	
09/23/96	01:06:23	Depth	N 51 46.68	W 170 18.32	000.0	0.0	73.6	m
09/23/96	01:09:44	OShip	N 51 46.68	W 170 18.33	151.3	0.8	0.0	
09/23/96	01:11:36	Depth	N 51 46.71	W 170 18.38	000.0	0.0	319.8	m
09/23/96	01:14:45	OShip	N 51 46.74	W 170 18.39	020.7	0.3	0.0	
09/23/96	01:16:24	Depth	N 51 46.76	W 170 18.33	000.0	0.0	322.5	m
09/23/96	01:19:45	OShip	N 51 46.99	W 170 18.50	336.8	5.4	0.0	
09/23/96	01:21:44	Depth	N 51 47.25	W 170 18.62	000.0	0.0	377.2	m
09/23/96	01:24:45	OShip	N 51 47.70	W 170 18.85	342.2	9.8	0.0	
09/23/96	01:26:28	Depth	N 51 47.99	W 170 19.01	000.0	0.0	20.2	m
09/23/96	01:29:46	OShip	N 51 48.62	W 170 19.25	347.5	12.3	0.0	
09/23/96	01:32:04	Depth	N 51 49.07	W 170 19.47	000.0	0.0	235.5	m
09/23/96	01:34:45	OShip	N 51 49.57	W 170 19.73	343.2	11.6	0.0	
09/23/96	01:36:28	Depth	N 51 49.90	W 170 19.86	000.0	0.0	429.2	m
09/23/96	01:39:44	OShip	N 51 50.52	W 170 20.14	343.2	11.6	0.0	

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Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/24/96	05:03:01	StTrp	N 55 02.79	W 166 36.69	000.0	0.0	0.0	SUNSET
09/24/96	16:46:16	Depth	N 56 52.12	W 164 03.27	000.0	0.0	72.0 m	SUNRISE
09/24/96	16:51:16	Depth	N 56 52.17	W 164 03.19	000.0	0.0	74.0 m	COMMENCE SEARCH FOR OLD BS2 TRAP
*****								
09/24/96	00:02:07	Depth	N 54 10.46	W 167 47.31	000.0	0.0	374.8 m	
09/24/96	00:04:46	OShip	N 54 10.86	W 167 46.61	046.0	12.8	0.0	
09/24/96	00:07:03	Depth	N 54 11.19	W 167 46.04	000.0	0.0	728.2 m	
09/24/96	00:09:44	OShip	N 54 11.62	W 167 45.35	043.2	13.1	0.0	
09/24/96	00:11:19	Depth	N 54 11.88	W 167 44.96	000.0	0.0	1488.5 m	
09/24/96	00:14:45	OShip	N 54 12.46	W 167 44.20	038.5	12.8	0.0	
09/24/96	00:16:16	Depth	N 54 12.73	W 167 43.85	000.0	0.0	1393.3 m	
09/24/96	00:19:44	OShip	N 54 13.34	W 167 43.09	036.2	12.8	0.0	
09/24/96	00:20:26	StTrp	N 54 13.46	W 167 42.95	000.0	0.0	0.0	
09/24/96	00:20:26	Weath	N 54 13.46	W 167 42.95	000.0	0.0	0.0	EK500 DEPTHS
09/24/96	00:21:21	Depth	N 54 13.61	W 167 42.76	000.0	0.0	1315.1 m	
09/24/96	00:24:45	OShip	N 54 14.23	W 167 42.02	036.0	13.1	0.0	
09/24/96	00:26:18	Depth	N 54 14.50	W 167 41.68	000.0	0.0	1225.9 m	
09/24/96	00:29:45	OShip	N 54 15.12	W 167 40.92	036.4	13.1	0.0	
09/24/96	00:31:16	Depth	N 54 15.38	W 167 40.59	000.0	0.0	1140.5 m	
09/24/96	00:34:44	OShip	N 54 16.01	W 167 39.82	036.4	13.3	0.0	
09/24/96	00:36:18	Depth	N 54 16.30	W 167 39.47	000.0	0.0	1051.4 m	
09/24/96	00:39:44	OShip	N 54 16.93	W 167 38.70	036.4	13.6	0.0	
09/24/96	00:41:17	Depth	N 54 17.21	W 167 38.35	000.0	0.0	985.2 m	
09/24/96	00:44:44	OShip	N 54 17.84	W 167 37.55	037.4	13.6	0.0	
09/24/96	00:46:17	Depth	N 54 18.11	W 167 37.20	000.0	0.0	929.5 m	
09/24/96	00:49:45	OShip	N 54 18.75	W 167 36.36	038.0	13.6	0.0	
09/24/96	00:51:17	Depth	N 54 19.02	W 167 36.00	000.0	0.0	872.0 m	
09/24/96	00:54:44	OShip	N 54 19.64	W 167 35.13	039.4	13.8	0.0	
09/24/96	00:56:17	Depth	N 54 19.91	W 167 34.75	000.0	0.0	836.0 m	
09/24/96	00:59:44	OShip	N 54 20.53	W 167 33.91	039.0	13.8	0.0	
09/24/96	01:01:17	Depth	N 54 20.80	W 167 33.52	000.0	0.0	807.0 m	
09/24/96	01:04:45	OShip	N 54 21.41	W 167 32.65	040.0	13.6	0.0	
09/24/96	01:06:16	Depth	N 54 21.67	W 167 32.27	000.0	0.0	781.9 m	
09/24/96	01:09:44	OShip	N 54 22.28	W 167 31.40	040.7	13.6	0.0	
09/24/96	01:11:17	Depth	N 54 22.54	W 167 31.02	000.0	0.0	760.2 m	
09/24/96	01:14:46	OShip	N 54 23.16	W 167 30.15	039.5	13.8	0.0	
09/24/96	01:16:16	Depth	N 54 23.43	W 167 29.78	000.0	0.0	739.0 m	
09/24/96	01:19:44	OShip	N 54 24.06	W 167 28.90	039.5	14.1	0.0	
09/24/96	01:21:17	Depth	N 54 24.33	W 167 28.51	000.0	0.0	717.7 m	
09/24/96	01:24:45	OShip	N 54 24.96	W 167 27.63	040.2	13.8	0.0	
09/24/96	01:26:16	Depth	N 54 25.23	W 167 27.25	000.0	0.0	694.0 m	
09/24/96	01:29:45	OShip	N 54 25.85	W 167 26.41	038.9	13.6	0.0	
09/24/96	01:31:17	Depth	N 54 26.12	W 167 26.04	000.0	0.0	673.7 m	
09/24/96	01:34:44	OShip	N 54 26.74	W 167 25.21	038.4	13.8	0.0	
09/24/96	01:36:17	Depth	N 54 27.03	W 167 24.85	000.0	0.0	657.2 m	
09/24/96	01:39:45	OShip	N 54 27.66	W 167 24.03	037.4	13.6	0.0	
09/24/96	01:41:16	Depth	N 54 27.93	W 167 23.67	000.0	0.0	645.2 m	

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09/25/96	00:50:08	StTrp N 56	52.27 W	164 02.43	000.0	0.0	0.0	CTD027 DP=71
09/25/96	01:14:38	StTrp N 56	52.19 W	164 02.75	000.0	0.0	0.0	CTD028 DP=72
09/25/96	01:39:16	StTrp N 56	52.22 W	164 02.70	000.0	0.0	0.0	CTD029 DP=72
09/25/96	01:50:51	StTrp N 56	52.31 W	164 02.17	000.0	0.0	0.0	CTD030 DP=73
09/25/96	02:06:16	Depth N 56	52.34 W	164 02.92	000.0	0.0	71.8 m	END TRAP RECOVERY ATTEMPT
09/25/96	04:47:55	StTrp N 56	24.36 W	164 22.51	000.0	0.0	0.0	SUNSET
09/25/96	16:55:11	StTrp N 54	21.25 W	165 44.21	000.0	0.0	0.0	SUNRISE DP=103
09/25/96	17:19:40	StTrp N 54	20.92 W	165 44.78	000.0	0.0	0.0	DEP UP5 DP= 98.0
09/25/96	20:59:31	StTrp N 54	22.05 W	164 43.82	000.0	0.0	0.0	DEP UP4 DP=56
09/25/96	23:07:02	StTrp N 54	18.95 W	164 45.51	000.0	0.0	0.0	DEP UP3 DP=71.7
*****								
09/25/96	00:01:16	Depth N 56	52.27 W	164 02.96	000.0	0.0	71.5 m	
09/25/96	00:04:45	OShip N 56	52.54 W	164 03.16	337.8	4.9	0.0	
09/25/96	00:06:16	Depth N 56	52.64 W	164 03.23	000.0	0.0	71.5 m	
09/25/96	00:09:46	OShip N 56	52.73 W	164 03.13	109.4	3.2	0.0	
09/25/96	00:11:16	Depth N 56	52.57 W	164 02.97	000.0	0.0	72.5 m	
09/25/96	00:14:45	OShip N 56	52.24 W	164 02.69	156.1	5.5	0.0	
09/25/96	00:16:16	Depth N 56	52.12 W	164 02.58	000.0	0.0	73.3 m	
09/25/96	00:19:45	OShip N 56	52.01 W	164 02.70	275.6	2.0	0.0	
09/25/96	00:21:16	Depth N 56	52.04 W	164 02.73	000.0	0.0	72.0 m	
09/25/96	00:24:45	OShip N 56	52.10 W	164 02.79	332.7	1.1	0.0	
09/25/96	00:26:16	Depth N 56	52.12 W	164 02.80	000.0	0.0	72.0 m	
09/25/96	00:29:45	OShip N 56	52.15 W	164 02.76	015.3	0.6	0.0	
09/25/96	00:31:16	Depth N 56	52.16 W	164 02.75	000.0	0.0	72.5 m	
09/25/96	00:34:45	OShip N 56	52.18 W	164 02.68	043.0	0.6	0.0	
09/25/96	00:36:16	Depth N 56	52.19 W	164 02.70	000.0	0.0	72.0 m	
09/25/96	00:39:45	OShip N 56	52.21 W	164 02.73	337.7	0.5	0.0	
09/25/96	00:41:16	Depth N 56	52.22 W	164 02.72	000.0	0.0	73.8 m	
09/25/96	00:44:45	OShip N 56	52.25 W	164 02.63	077.3	1.1	0.0	
09/25/96	00:46:16	Depth N 56	52.26 W	164 02.57	000.0	0.0	71.9 m	
09/25/96	00:49:44	OShip N 56	52.27 W	164 02.45	081.9	1.3	0.0	
09/25/96	00:50:08	StTrp N 56	52.27 W	164 02.43	000.0	0.0	0.0	CTD027 DP=71
09/25/96	00:51:16	Depth N 56	52.27 W	164 02.37	000.0	0.0	71.8 m	
09/25/96	00:54:45	OShip N 56	52.26 W	164 02.23	110.3	1.5	0.0	
09/25/96	00:56:16	Depth N 56	52.29 W	164 02.16	000.0	0.0	72.6 m	
09/25/96	00:59:45	OShip N 56	52.27 W	164 02.74	257.6	6.6	0.0	
09/25/96	01:01:16	Depth N 56	52.20 W	164 03.06	000.0	0.0	70.9 m	
09/25/96	01:04:44	OShip N 56	52.08 W	164 03.03	105.4	1.7	0.0	
09/25/96	01:06:16	Depth N 56	52.10 W	164 02.95	000.0	0.0	71.4 m	
09/25/96	01:09:45	OShip N 56	52.18 W	164 02.91	039.5	1.2	0.0	
09/25/96	01:11:16	Depth N 56	52.19 W	164 02.85	000.0	0.0	72.5 m	
09/25/96	01:14:38	StTrp N 56	52.19 W	164 02.75	000.0	0.0	0.0	CTD028 DP=72
09/25/96	01:14:45	OShip N 56	52.19 W	164 02.75	119.5	1.1	0.0	
09/25/96	01:16:16	Depth N 56	52.20 W	164 02.67	000.0	0.0	72.3 m	
09/25/96	01:19:45	OShip N 56	52.18 W	164 02.49	101.0	1.7	0.0	
09/25/96	01:21:16	Depth N 56	52.22 W	164 02.46	000.0	0.0	73.3 m	
09/25/96	01:24:45	OShip N 56	52.07 W	164 03.07	248.6	6.9	0.0	

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Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/26/96	00:25:48	StTrp	N 54 16.29	W 164 46.88	000.0	0.0	0.0	DEP UP2 DP=77
09/26/96	00:52:22	StTrp	N 54 14.18	W 164 47.68	000.0	0.0	0.0	ADCP st
09/26/96	01:42:56	StTrp	N 54 22.75	W 164 42.91	000.0	0.0	0.0	ADCP end
09/26/96	02:18:30	StTrp	N 54 18.95	W 164 45.86	000.0	0.0	0.0	CTD31 DP=71
09/26/96	04:46:43	StTrp	N 54 20.92	W 164 02.13	000.0	0.0	0.0	SUNSET
09/26/96	05:04:02	StTrp	N 54 20.97	W 164 02.92	000.0	0.0	0.0	DEP UP1 DP=102
09/26/96	16:32:58	StTrp	N 54 29.52	W 159 37.08	000.0	0.0	0.0	SUNRISE
09/26/96	19:34:57	StTrp	N 54 35.97	W 158 35.36	000.0	0.0	0.0	CTD 32 DP=278
09/26/96	20:19:24	StTrp	N 54 32.45	W 158 32.00	000.0	0.0	0.0	DRIFTER #7212 DP=1056
09/26/96	21:00:34	StTrp	N 54 32.58	W 158 33.04	000.0	0.0	0.0	CTD33 DP=1021
09/26/96	23:35:50	StTrp	N 54 24.64	W 158 24.18	000.0	0.0	0.0	CTD34 DP=2184
*****								
09/26/96	00:04:09	Depth	N 54 16.81	W 164 47.31	000.0	0.0	71.5 m	
09/26/96	00:04:11	OShip	N 54 16.81	W 164 47.30	139.6	2.0	0.0	
09/26/96	00:08:57	OShip	N 54 16.68	W 164 47.21	156.6	1.6	0.0	
09/26/96	00:08:57	Depth	N 54 16.68	W 164 47.21	000.0	0.0	75.1 m	
09/26/96	00:13:57	Depth	N 54 16.54	W 164 47.09	000.0	0.0	70.9 m	
09/26/96	00:13:57	OShip	N 54 16.54	W 164 47.09	152.8	1.8	0.0	
09/26/96	00:18:57	Depth	N 54 16.41	W 164 46.96	000.0	0.0	70.5 m	
09/26/96	00:18:58	OShip	N 54 16.41	W 164 46.96	154.5	1.7	0.0	
09/26/96	00:24:49	OShip	N 54 16.29	W 164 46.86	144.6	1.0	0.0	
09/26/96	00:25:48	StTrp	N 54 16.29	W 164 46.88	000.0	0.0	0.0	DEP UP2 DP=77
09/26/96	00:29:50	OShip	N 54 16.26	W 164 47.04	251.8	2.2	0.0	
09/26/96	00:34:50	OShip	N 54 16.03	W 164 47.73	234.8	7.3	0.0	
09/26/96	00:39:50	OShip	N 54 15.43	W 164 48.82	224.3	11.6	0.0	
09/26/96	00:44:50	OShip	N 54 14.58	W 164 49.62	202.8	11.6	0.0	
09/26/96	00:49:49	OShip	N 54 14.11	W 164 48.46	098.1	11.8	0.0	
09/26/96	00:52:22	StTrp	N 54 14.18	W 164 47.68	000.0	0.0	0.0	ADCP st
09/26/96	00:54:50	OShip	N 54 14.66	W 164 47.44	013.6	11.8	0.0	
09/26/96	00:59:51	OShip	N 54 15.54	W 164 47.26	008.6	9.6	0.0	
09/26/96	01:04:50	OShip	N 54 16.30	W 164 46.73	024.8	10.3	0.0	
09/26/96	01:09:50	OShip	N 54 17.08	W 164 46.11	021.7	10.8	0.0	
09/26/96	01:14:51	OShip	N 54 17.93	W 164 45.65	019.2	10.8	0.0	
09/26/96	01:19:49	OShip	N 54 18.79	W 164 45.21	016.1	10.6	0.0	
09/26/96	01:24:51	OShip	N 54 19.64	W 164 44.73	019.6	10.3	0.0	
09/26/96	01:29:49	OShip	N 54 20.47	W 164 44.21	021.6	11.3	0.0	
09/26/96	01:34:50	OShip	N 54 21.36	W 164 43.73	018.3	11.1	0.0	
09/26/96	01:39:53	OShip	N 54 22.23	W 164 43.20	020.1	11.0	0.0	
09/26/96	01:42:56	StTrp	N 54 22.75	W 164 42.91	000.0	0.0	0.0	ADCP end
09/26/96	01:44:50	OShip	N 54 22.79	W 164 42.61	107.9	5.0	0.0	
09/26/96	01:49:55	OShip	N 54 21.97	W 164 43.28	205.6	10.6	0.0	
09/26/96	01:54:50	OShip	N 54 21.19	W 164 43.88	206.1	11.0	0.0	
09/26/96	01:59:49	OShip	N 54 20.38	W 164 44.41	201.8	10.1	0.0	
09/26/96	02:04:49	OShip	N 54 19.58	W 164 44.96	202.8	10.0	0.0	
09/26/96	02:09:49	OShip	N 54 18.91	W 164 45.32	194.1	7.4	0.0	
09/26/96	02:14:52	OShip	N 54 18.87	W 164 45.71	311.2	2.5	0.0	
09/26/96	02:18:30	StTrp	N 54 18.95	W 164 45.86	000.0	0.0	0.0	CTD31 DP=71
09/26/96	02:19:49	OShip	N 54 18.98	W 164 45.88	339.5	1.5	0.0	



MILLER FREEMAN, R-223 SeaPlot Event Log File For MF-96-14  
 27 SEPT 96 Julian Date 272 Time Zone +8  
 EASTERN BERING SEA All Date & Time Entries in GMT

Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/27/96	01:53:48	StTrp	N 54 21.43	W 158 18.83	000.0	0.0	0.0	CTD35 DEP=2455
09/27/96	04:21:11	StTrp	N 54 16.72	W 158 11.40	000.0	0.0	0.0	SUNSET
09/27/96	04:30:15	StTrp	N 54 16.79	W 158 11.30	000.0	0.0	0.0	CTD36 DP=3283
09/27/96	16:25:11	StTrp	N 56 26.33	W 156 21.09	000.0	0.0	0.0	SUNRISE DP=221
09/27/96	17:08:41	StTrp	N 56 31.60	W 156 19.08	000.0	0.0	0.0	CTD37 DP=199
09/27/96	17:34:52	StTrp	N 56 31.60	W 156 18.95	000.0	0.0	0.0	REC9618 DP= 12
09/27/96	19:40:39	StTrp	N 56 40.46	W 156 31.58	000.0	0.0	0.0	CTD38 DP=163.4
09/27/96	20:03:10	StTrp	N 56 40.33	W 156 31.62	000.0	0.0	0.0	RELEASE F9616
09/27/96	20:36:35	StTrp	N 56 40.80	W 156 31.85	000.0	0.0	0.0	F9616 RECOVERY COMPLETE
09/27/96	21:43:10	StTrp	N 56 47.76	W 156 13.22	000.0	0.0	0.0	CNTBD UP

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09/27/96	00:01:24	Depth	N 54 24.82	W 158 24.51	000.0	0.0	250.1 m	
09/27/96	00:04:51	OShip	N 54 24.85	W 158 24.54	321.2	0.6	0.0	
09/27/96	00:06:24	Depth	N 54 24.86	W 158 24.56	000.0	0.0	250.5 m	
09/27/96	00:09:49	OShip	N 54 24.90	W 158 24.60	324.1	0.8	0.0	
09/27/96	00:11:24	Depth	N 54 24.92	W 158 24.63	000.0	0.0	254.0 m	
09/27/96	00:14:49	OShip	N 54 24.96	W 158 24.67	329.0	0.8	0.0	
09/27/96	00:19:50	OShip	N 54 25.03	W 158 24.64	034.7	2.4	0.0	
09/27/96	00:21:24	Depth	N 54 24.95	W 158 24.43	000.0	0.0	250.3 m	
09/27/96	00:24:52	OShip	N 54 24.57	W 158 23.86	139.3	8.6	0.0	
09/27/96	00:26:24	Depth	N 54 24.44	W 158 23.69	000.0	0.0	239.0 m	
09/27/96	00:29:51	OShip	N 54 24.01	W 158 23.04	139.1	10.5	0.0	
09/27/96	00:31:24	Depth	N 54 23.80	W 158 22.72	000.0	0.0	226.8 m	
09/27/96	00:34:49	OShip	N 54 23.32	W 158 22.00	139.1	11.1	0.0	
09/27/96	00:36:24	Depth	N 54 23.09	W 158 21.66	000.0	0.0	248.8 m	
09/27/96	00:39:50	OShip	N 54 22.61	W 158 20.93	139.0	11.1	0.0	
09/27/96	00:41:24	Depth	N 54 22.40	W 158 20.61	000.0	0.0	247.3 m	
09/27/96	00:44:49	OShip	N 54 21.90	W 158 19.88	139.5	11.1	0.0	
09/27/96	00:46:24	Depth	N 54 21.69	W 158 19.54	000.0	0.0	234.8 m	
09/27/96	00:49:49	OShip	N 54 21.29	W 158 18.72	130.3	11.0	0.0	
09/27/96	00:51:24	Depth	N 54 21.12	W 158 18.37	000.0	0.0	242.8 m	
09/27/96	00:54:51	OShip	N 54 21.08	W 158 18.05	044.4	2.0	0.0	
09/27/96	00:56:25	Depth	N 54 21.11	W 158 18.11	000.0	0.0	236.1 m	
09/27/96	00:59:50	OShip	N 54 21.14	W 158 18.17	308.7	0.8	0.0	
09/27/96	01:01:24	Depth	N 54 21.15	W 158 18.20	000.0	0.0	244.1 m	
09/27/96	01:04:50	OShip	N 54 21.19	W 158 18.24	325.2	0.8	0.0	
09/27/96	01:06:24	Depth	N 54 21.21	W 158 18.29	000.0	0.0	239.6 m	
09/27/96	01:09:49	OShip	N 54 21.23	W 158 18.35	304.8	0.6	0.0	
09/27/96	01:11:24	Depth	N 54 21.24	W 158 18.36	000.0	0.0	242.3 m	
09/27/96	01:14:49	OShip	N 54 21.28	W 158 18.47	291.3	1.2	0.0	
09/27/96	01:16:24	Depth	N 54 21.27	W 158 18.49	000.0	0.0	234.6 m	
09/27/96	01:19:50	OShip	N 54 21.27	W 158 18.49	184.8	0.2	0.0	
09/27/96	01:21:24	Depth	N 54 21.27	W 158 18.48	000.0	0.0	238.0 m	
09/27/96	01:24:49	OShip	N 54 21.25	W 158 18.59	268.5	1.3	0.0	
09/27/96	01:26:25	Depth	N 54 21.27	W 158 18.63	000.0	0.0	233.5 m	
09/27/96	01:29:51	OShip	N 54 21.29	W 158 18.67	316.7	0.6	0.0	
09/27/96	01:31:24	Depth	N 54 21.31	W 158 18.69	000.0	0.0	232.1 m	

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 28 SEPT 96 Julian Date 272 Time Zone +8  
 EASTERN BERING SEA All Date & Time Entries in GMT

Date	Time	Cat	Lat	Long	CMG	SPD	Depth	Comments
09/28/96	04:02:01	Depth	N 57 19.53	W 154 47.92	000.0	0.0	55.5 m	SUNSET @0401
09/28/96	08:15:55	StTrp	N 57 31.03	W 154 46.82	000.0	0.0	0.0	CTD39 DP=218
09/28/96	09:40:05	StTrp	N 57 33.17	W 154 52.38	000.0	0.0	0.0	CTD40 DP=234
09/28/96	10:35:23	StTrp	N 57 36.25	W 155 00.76	000.0	0.0	0.0	CTD41 DP=242
09/28/96	11:30:33	StTrp	N 57 38.54	W 155 04.06	000.0	0.0	0.0	CTD42 DP=258
09/28/96	13:11:45	StTrp	N 57 41.21	W 155 10.31	000.0	0.0	0.0	CTD43 DEP=294
09/28/96	13:54:17	StTrp	N 57 43.12	W 155 15.60	000.0	0.0	0.0	CTD44 DEP=198
09/28/96	15:59:47	StTrp	N 57 40.78	W 155 17.03	000.0	0.0	0.0	RELEASE 9601
09/28/96	16:25:55	StTrp	N 57 40.37	W 155 17.54	000.0	0.0	0.0	SUNRISE
09/28/96	17:51:16	StTrp	N 57 36.78	W 155 04.88	000.0	0.0	0.0	RELEASE 9602
09/28/96	20:25:04	StTrp	N 57 29.86	W 154 47.66	000.0	0.0	0.0	RELEASE F9603
09/29/96	00:02:01	OShip	N 57 35.25	W 153 56.40	229.8	6.8	0.0	ENROUTE TO LARSEN BAY
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09/28/96	00:03:50	Depth	N 57 02.62	W 155 32.36	000.0	0.0	277.3 m	
09/28/96	00:04:50	OShip	N 57 02.74	W 155 32.04	056.2	12.6	0.0	
09/28/96	00:08:50	Depth	N 57 03.21	W 155 30.79	000.0	0.0	275.1 m	
09/28/96	00:09:49	OShip	N 57 03.33	W 155 30.49	055.7	12.1	0.0	
09/28/96	00:22:01	OShip	N 57 04.79	W 155 26.74	051.0	12.6	0.0	
09/28/96	00:22:01	Depth	N 57 04.79	W 155 26.74	000.0	0.0	268.6 m	
09/28/96	00:27:01	Depth	N 57 05.42	W 155 25.27	000.0	0.0	266.1 m	
09/28/96	00:27:02	OShip	N 57 05.42	W 155 25.26	052.4	12.3	0.0	
09/28/96	00:32:01	Depth	N 57 06.01	W 155 23.83	000.0	0.0	263.6 m	
09/28/96	00:32:02	OShip	N 57 06.02	W 155 23.82	054.2	11.8	0.0	
09/28/96	00:37:01	OShip	N 57 06.66	W 155 22.37	051.2	12.1	0.0	
09/28/96	00:37:01	Depth	N 57 06.66	W 155 22.37	000.0	0.0	261.1 m	
09/28/96	00:42:01	OShip	N 57 07.26	W 155 20.88	055.7	12.0	0.0	
09/28/96	00:42:01	Depth	N 57 07.26	W 155 20.88	000.0	0.0	258.5 m	
09/28/96	00:47:01	OShip	N 57 07.80	W 155 19.36	058.9	11.8	0.0	
09/28/96	00:47:01	Depth	N 57 07.80	W 155 19.36	000.0	0.0	255.5 m	
09/28/96	00:52:01	Depth	N 57 08.31	W 155 17.82	000.0	0.0	253.1 m	
09/28/96	00:52:03	OShip	N 57 08.31	W 155 17.80	060.7	12.0	0.0	
09/28/96	00:57:01	OShip	N 57 08.87	W 155 16.25	053.9	12.3	0.0	
09/28/96	00:57:01	Depth	N 57 08.87	W 155 16.25	000.0	0.0	250.1 m	
09/28/96	01:02:01	Depth	N 57 09.40	W 155 14.69	000.0	0.0	247.6 m	
09/28/96	01:02:03	OShip	N 57 09.41	W 155 14.68	059.0	11.6	0.0	
09/28/96	01:07:01	OShip	N 57 09.93	W 155 13.15	059.2	11.8	0.0	
09/28/96	01:07:01	Depth	N 57 09.93	W 155 13.15	000.0	0.0	243.6 m	
09/28/96	01:12:01	OShip	N 57 10.44	W 155 11.66	059.0	11.6	0.0	
09/28/96	01:12:01	Depth	N 57 10.44	W 155 11.66	000.0	0.0	240.0 m	
09/28/96	01:17:01	OShip	N 57 10.97	W 155 10.10	057.2	12.1	0.0	
09/28/96	01:17:01	Depth	N 57 10.97	W 155 10.10	000.0	0.0	235.1 m	
09/28/96	01:22:01	OShip	N 57 11.49	W 155 08.56	060.7	12.0	0.0	
09/28/96	01:22:01	Depth	N 57 11.49	W 155 08.56	000.0	0.0	231.3 m	
09/28/96	01:27:01	Depth	N 57 12.04	W 155 07.01	000.0	0.0	230.3 m	
09/28/96	01:27:02	OShip	N 57 12.04	W 155 06.99	058.4	12.1	0.0	
09/28/96	01:32:01	OShip	N 57 12.54	W 155 05.44	056.9	12.1	0.0	
09/28/96	01:32:01	Depth	N 57 12.54	W 155 05.44	000.0	0.0	231.0 m	
09/28/96	01:37:01	OShip	N 57 13.08	W 155 03.87	058.5	12.3	0.0	