

CRUISE REPORT

Cruise Number: MF05-04

Vessel: NOAA Ship Miller Freeman

Area of Operations: Bering Sea

Itinerary: Depart Kodiak, Alaska: 14 March 2005
Arrive Dutch Harbor, Alaska: 19 March 2005

Participating Organizations: NOAA/PMEL/FOCI

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Other Participating Scientists:

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Cruise Objectives: The primary objective of the cruise was the recovery and deployment of moorings in the Gulf of Alaska. The second objective was physical oceanographic property sampling at and near the mooring locations.

Summary of Operations and Samples Collected:

CTD Casts	24
Moorings Recovered	6
Moorings Deployed	5
Salinity Samples	24

Cruise Summary:

On March 14th NOAA Ship MILLER FREEMAN departed Dutch Harbor, Alaska for the Pavlof Bay mooring site. A CTD, mooring recovery, mooring deployment and second CTD were completed.

The ship proceeded from Pavlof Bay to Shelikof Strait. A CTD, mooring recovery of 04SSP-1A, and mooring deployment of 05SSP-1A were completed at Shelikof Strait site 1. A CTD, mooring recovery of 04SSP-2A, and mooring deployment of 05SSP-2A were completed at Shelikof Strait site 2. The mooring 04SSP-2A had moved approximately 1.4 miles from its deployment location. A CTD, mooring recovery of 04SSP-3A, and mooring deployment of 05SSP-3A were completed at Shelikof Strait site 3. The Line 8 CTDs were completed.

We then proceeded to the Gore Point CTD line. The five CTDs most inshore were completed.

The EDD test mooring – a surface mooring – was recovered without incident.

The GAK CTD line was completed except for GAK site 4. GAK site 4 was not completed since there may have been a University of Alaska mooring deployed at the site and we were unable to obtain a location for the possible mooring.

We then proceeded to mooring site 04GBP-12A. During FOCI's fall cruise the initial mooring interrogation of 04GBP-12A indicated that the release was horizontal. Later during the same cruise, after it was determined that the deck unit had been acting flaky, we revisited the mooring site and were unable to locate the mooring. During this cruise, MF05-04, we were able to locate mooring 04GBP-12A and confirm that the release was horizontal. The mooring was located at 58 41.061 N, 148 50.900 W – the release range was 217 m at 200 m depth. At a later date, we may return with a remotely operated vehicle (ROV) to recover this mooring.

We proceeded to the Chiniak Bay mooring site. A CTD, mooring recovery, mooring deployment and second CTD were completed. During recovery operations, the mooring took approximately 10 minutes to surface.

Summary of Cruise:

Days lost to weather – 0
 Days lost to equipment failure – 0

Acknowledgments:

It was a pleasure working with Captain John Herring and his crew.

Attachments:

Table 1: Cruise Summary MF05-04

Date	Time	Button	Notes	LATITUDE	LONGITUDE
3/15/2005	18:37:19	CTD at Depth	CTD001	55 11.1948 N	161 42.0748 W
3/15/2005	19:20:30	Mooring Recover	04PA-1A	55 10.8617 N	161 41.1440 W
3/15/2005	20:48:04	Mooring Deploy	05PA-1A	55 10.8657 N	161 41.1976 W
3/15/2005	21:01:12	CTD at Depth	CTD 002	55 10.8456 N	161 41.4435 W
3/17/2005	1:09:32	CTD at Depth	CTD 003	57 40.5764 N	155 13.0468 W
3/17/2005	1:45:49	Mooring Recover	04SSP-1A	57 40.8978 N	155 12.4746 W
3/17/2005	2:39:00	Mooring Deploy	05SSP-1A	57 41.05 N	155 12.217 W
3/17/2005	3:26:35	CTD at Depth	CTD 004	57 37.3944 N	155 05.3258 W
3/17/2005	4:05:36	Mooring Recover	04SSP-2A	57 37.9787 N	155 01.6406 W

April 14, 2005

Date	Time	Button	Notes	LATITUDE	LONGITUDE
3/17/2005	4:55:41	Mooring Deploy	05SSP-2A	57 37.1112 N	155 04.4866 W
3/17/2005	6:16:10	CTD at Depth	CTD 005	57 28.5463 N	154 48.6904 W
3/17/2005	6:41:29	Mooring Recover	04SSP-3A	57 28.9461 N	154 48.6271 W
3/17/2005	9:13:53	Mooring Deploy	05SSP-3A	57 29.0174 N	154 48.4534 W
3/17/2005	9:34:01	CTD at Depth	CTD 006 (CTD after deployment of 05SSP-3A)	57 29.1077 N	154 46.8194 W
3/17/2005	10:00:59	CTD at Depth	CTD 007 (Line 8, station 55)	57 28.4340 N	154 42.3450 W
3/17/2005	10:55:38	CTD at Depth	CTD 008 (Line 8, station 57)	57 33.1970 N	154 52.9098 W
3/17/2005	11:43:03	CTD at Depth	CTD 009 (Line 8, station 58)	57 36.3079 N	155 00.6847 W
3/17/2005	12:15:14	CTD at Depth	CTD 010 (CTD after deployment of 05SSP-2A)	57 37.6563 N	155 04.2071 W
3/17/2005	13:10:14	CTD at Depth	CTD 011 (CTD after deployment of 05SSP-1A)	57 40.6726 N	155 11.8998 W
3/17/2005	13:20:48	CTD at Depth	CTD 011 DETAIL RECAST	57 40.5154 N	155 11.8945 W
3/17/2005	14:02:27	CTD at Depth	CTD 012 (Line 8, station 61)	57 43.1031 N	155 15.4344 W
3/18/2005	6:27:26	CTD at Depth	CTD 013 (GP4)	58 52.7036 N	150 54.2301 W
3/18/2005	7:14:02	CTD at Depth	CTD 014 (GP3)	58 56.8460 N	150 55.9812 W
3/18/2005	7:55:13	CTD at Depth	CTD 015 (GP2)	59 00.5956 N	150 57.6673 W
3/18/2005	8:40:23	CTD at Depth	CTD 016 (GP1)	59 05.9565 N	150 59.3067 W
3/18/2005	9:16:07	CTD at Depth	CTD 017 (GP0)	59 09.4028 N	151 00.8657 W
3/18/2005	16:40:48	Mooring Recover	EDD test buoy	59 18.0182 N	148 58.6397 W
3/18/2005	19:15:52	CTD at Depth	CTD 018 (GAK 6)	59 09.5271 N	148 46.0063 W
3/18/2005	20:16:53	CTD at Depth	CTD 019 (GAK 5)	59 15.4580 N	148 54.7214 W
3/18/2005	22:14:48	CTD at Depth	CTD 020 (GAK-3)	59 33.2600 N	149 11.0577 W
3/18/2005	23:19:54	CTD at Depth	CTD 021 (GAK-2)	59 41.3511 N	149 19.7472 W
3/19/2005	0:10:52	CTD at Depth	CTD 022 (GAK-1)	59 45.7584 N	149 23.8464 W
3/19/2005	6:21:02	Mooring Recover Attempt	04GBP-12A	58 41.2819 N	148 50.9823 W
3/19/2005	16:52:51	CTD at Depth	CTD023	57 43.7607 N	152 16.9370 W
3/19/2005	17:27:03	Mooring Recover	04CB-1A	57 43.2945 N	152 17.2380 W
3/19/2005	18:41:27	Mooring Deploy	05CB-1A	57 43.3376 N	152 17.6197 W
3/19/2005	18:58:34	CTD at Depth	CTD 024	57 43.4393 N	152 18.5898 W

Figure 1: Station Map

