GEOPHYSICS LOG

LOGBOOK
R/V ASTERIAS
CRUISE AST-6A-80
UNIBOOM
CAPE ANN - NH LINE

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JUNE 3 1980 —
JUNE 6 1980

ORIGINAL COPY #1

100745

Uniboom Survey AST 6-80. Cape Ann to New Hampshire line.

All time is EDT Nav. Loran C.

GMT (EDT) DAY	MO	YR	TIME	TIME ZONE ±	SHIPS COURSE	SPD	NAVIGATION channel #1	Channel #2 (3)	
03	06	80	0910				13822.5	44375.0	
			0915				13820.2	44374.0	
			0921				13815.9	25866.2	
			0925				13811.6	25862.9	
			0930				13807.9	25859.7	
			0945				13796.3	25851.6	
			1000				13784.4	25841.6	
			1006				13780.6	25838.6	C/L
			1015				13773.3	25831.6	
			1030				13762.5	25821.5	
			1045				13752.2	25811.7	
			1100						
			1105				13739.4	25799.4	
			1120				13730.2	25790.7	
			1130				13724.8	25786.1	
			1145				13718.7	25780.6	
			1210				13702.7	25764.9	
			1215				13699.3	25766.2	20
			1220						
			1223				13693.4	25756.6	→
			1230				13694.8	25760.6	
			1245				13699.0	25772.5	C/L →
			1300				13708.8	25781.3	
			1315				13719.1	25790.8	
			1330						
			1335				13733.4	25804.1	
			1345				13740.7	25810.3	
			1400				13752.0	25820.5	
			1415				13762.0	25830.4	
			1430				13772.4	25839.0	

OPS							COMMENTS AND OBSERVATIONS
12 KHz	3.5 KHz	CSP	MAG	GRAV	SONO	STA	
							Uniboom .25 sec sweep, 2 sweep/hy, filter 400-4000
							Hz. External filter, external amp.
							0910 START SURVEY LINE 1
							1006 COURSE CHANGE
							End line
							End line 1 c/c enroute line 2
							COURSE CHANGE START LINE 2

GMT DAY	GMT MO	GMT YR	GMT TIME	TIME ZONE ±	SHIPS COURSE	SHIPS SPD	NAVIGATION CHANNEL #1	NAVIGATION CHANNEL #3	
03	06	80	1445				13781.9	25848.7	
			1500				13792.2	25857.9	
			1515				13803.4	25867.9	
			1530				13813.2	25877.3	
			1545				13823.5	25886.9	
			1552				13829.4	25892.0	C/C →
			1600				13828.3	25896.3	
			1609				13827.8	25901.8	C/C →
			1615				13824.3	25898.5	
			1630				13814.6	25889.7	
			1645				13805.3	25880.7	
			1706				13796.2	25872.7	
							.	.	
04	06	80					.	.	
	NED.		1746				.	.	
			0750				13796.7	25872.5	→
			0800				13791.0	25869.2	
			0815				13779.8	25858.5	
			0830				13768.4	25848.4	
			0845				13757.0	25837.4	
			0900				13745.5	25826.5	
			0915				13734.0	25816.0	
			0930				13722.2	25804.8	
			0945				13711.1	25794.9	
			1000				13700.5	25784.9	
			1004				13697.5	25782.2	
			1015				13696.8	25788.8	
							.	.	
			1021				13696.8	25792.4	
							.	.	

OPS							COMMENTS AND OBSERVATIONS
12 KHz	3.5 KHz	CSP	MAG	GRAV	SONO	STA	
							END LINE 2 ENROUTE TO LINE 3
							START LINE 3 EASTERLY COURSE
							END OF DAY 6/3/80
							0746 START SURVEY 6/4/80 Resume line 3 Easterly Course
							end line 3 enroute to line 4
							Start line 4 course west

Time in EDT GMT DAY	MO	YR	TIME	TIME ZONE ±	SHIPS COURSE	SPD	NAVIGATION		
04	06	80	1030				13702.4	25797.6	
			1045				13711.2	25805.7	
			1100				13719.9	25814.3	
			1115				13729.3	25822.3	
			1130				13738.9	25831.2	
			1145				13748.6	25840.2	
			1200				13758.8	25849.4	
			1215				13769.2	25859.3	
			1230				13780.0	25869.7	
			1245				13791.0	25879.4	
			1300				13801.7	25889.6	
			1315				13812.8	25899.2	
			1330				13823.5	25909.6	
			1335				13827.2	25912.8	C/C
			1345				13825.4	25919.0	
			1349				13824.8	25921.8	X →
							13818.6	25916.8	
			1410				13817.8	25916.1	
			1415				13814.6	25912.1	
			1430				13805.1	25904.2	
			1445				13794.9	25895.1	
			1500				13785.0	25885.6	
			1515				13774.7	25876.3	
			1530				13764.2	25866.7	
			1545				13753.7	25857.0	
			1600				13743.4	25847.5	
			1615				13733.7	25838.6	
			1630				13724.0	25829.7	
			1645				13715.6	25820.9	

OPS							COMMENTS AND OBSERVATIONS
12 KHz	3.5 KHz	CSP	MAG	GRAV	SONO	STA	
							Line 4 course 270° T
							COURSE CHANGE END LINE 4 ENROUTE TO LINE 5
							COURSE CHANGE START LINE 5 easterly course
							NEW PAPER ROLL BEGIN LINE 5

All time = EDT

GMT DAY	GMT MO	GMT YR	GMT TIME	TIME ZONE ±	SHIPS COURSE	SHIPS SPD	NAVIGATION CHANNEL 1	NAVIGATION CHANNEL 3	
04	06	80	1700				13705.7	25812.4	
			1715				13696.4	25803.7	
			1717				13694.4	25801.9	
			1730				13693.0	25809.5	
			1731				13691.1	25810.3	
			1745				13700.8	25819.3	
			1800				13711.4	25830.0	
			1815				13722.6	25839.4	
			1835				13735.3	25852.6	
			1850				13744.5	25861.5	
			1900				13750.9	25866.9	
			1913				13759.3	25874.8	→
05	06	80	1115				13814.5	25935.2	
			1130				13803.5	25923.7	
			1145				13791.2	25913.7	
			1200				13782.0	25904.3	
			1215				13772.1	25895.1	
			1230				13761.9	25886.1	
			1245				13751.7	25876.7	
			1300				13741.2	25867.3	
			1315				13730.8	25857.9	
			1330				13720.9	25848.4	
			1344				13711.7	25839.9	C/C
			1357				13703.7	25843.5	C/C
			1405				13709.4	25849.1	
			1415				13715.9	25855.0	
			1430				13726.6	25865.0	
			1445				13737.1	25874.2	
			1500				13747.4	25883.9	

OPS							COMMENTS AND OBSERVATIONS
12 KHz	3.5 KHz	CSP	MAG	GRAV	SONO	STA	
							End line 5 enroute to east end line 6 C/C
							Start line 6 Course Westerly
							Pakalsky + Sylwester aboard 8:15 with new power supply. Left Woods Hole @ 0500. Tested gear + left. Good work 5/4/80
							ENERGY SOURCE BLEW PULL GEAR LORAN READINGS FOR BREAKDOWN
							Start line 7 west end course easterly
							COURSE CHANGE END OF LINE 7 ENROUTE TO LINE 8
							COURSE CHANGE START LN 8 WESTERLY COURSE

All time in EDT ~~GMT~~

DAY	MO	YR	TIME	TIME ZONE ±	SHIPS COURSE	SPD	NAVIGATION Loran C Channel 1	Channel 3	
05	06	80	1515		~220		13757.9	25893.7	
			1530				13768.8	25903.3	
			1545		270	4.9	13778.9	25913.0	
			1605				13793.7	25926.2	
			1615				13802.2	25934.2	
			1629				13808.8	25940.5	
			1630				13807.4	25945.3	
			1635				13805.4	25948.8	
			1645				13797.3	25941.4	
			1700				13786.8	25931.8	
			1720				13769.5	25915.9	
			1730				13760.6	25907.9	
			1745				13747.1	25895.2	
			1800				13734.1	25883.3	
			1815				13721.3	25871.3	
			1831				13707.7	25858.6	
			1842				13698.5	25850.7	4c
			1900				13684.2	25855.5	
			1914				13692.9	25856.8	
			1920				13698.0	25860.7	
			1923				13700.6	25863.1	
06	06	80	0550				13780.4	25954.5	
			0600				13779.8	25947.2	
			0615				13766.8	25935.9	
			0630				13754.1	25924.2	
			0645				13741.1	25913.0	
			0700				13728.9	25901.6	
			0715				13716.6	25890.8	

OPS							COMMENTS AND OBSERVATIONS
12 KHz	3.5 KHz	CSP	MAG	GRAV	SONO	STA	
							Line 8 continued Uniboom 1/4 ex sweep
							1601 upped speed to 1200 RPM.
							Change Course for line 9, end line 8.
							Enroute line 9
							Change course to line 9 easterly.
							CHANGE COURSE ENROUTE TO LINE 10 END OF LINE 9
							Loran C down
							Start line 10 Nav. working
							Pull gear head for Newburyport.
							Start line 11 course east.

GMT DAY	GMT MO	GMT YR	GMT TIME	TIME ZONE ±	SHIPS COURSE	SHIPS SPD	NAVIGATION		
06	06	80	0730				13705.3	25879.3	
			0745				13693.5	25868.8	
			0753				13687.5	25863.0	C/C
			0800				13690.8	25859.0	
			0803				13691.9	25857.1	C/C
			0815				13701.7	25865.3	
			0830				13713.4	25876.3	
			0845				13725.8	25887.1	
			0900				13737.6	25898.0	
			0915				13749.7	25909.0	
			0930				13762.3	25920.1	
			0945				13774.6	25930.7	
			1000				13786.4	25942.0	
			1011				13796.9	25951.9	
			1047				13821.4	25928.9	
			1100				13810.7	25919.3	
			1115				13797.0	25907.9	
			1130				13784.2	25895.8	
			1145				13771.3	25885.1	
			1159				13759.2	25874.7	

OPS							COMMENTS AND OBSERVATIONS
12 KHz	3.5 KHz	CSP	MAG	GRAV	SONO	STA	
							COURSE CHANGE END LINE 11 ENROUTE TO LINE 10
							START LINE 10 WESTERLY COURSE
							End line 10, pull gear steam to West end line 6
							Start line 6 west end to breakdown pt.
							end line 6 completion