#105318 NECH 87-1
NEECHO 87024
Boston Harbor
June 16-August 7, 1987
R.Rendigs
SEISMIC LOG
(June 18-July 21, 1987)

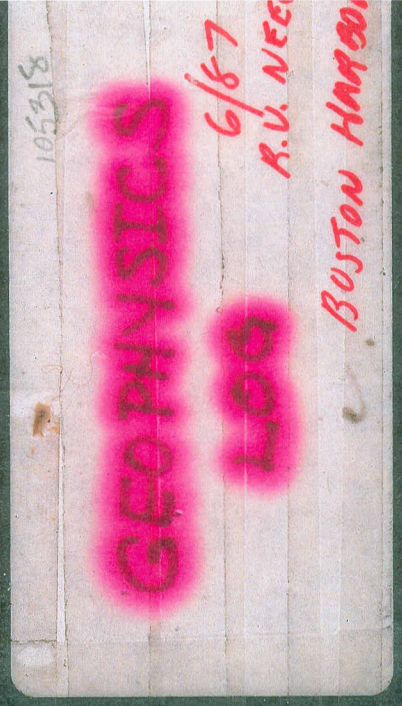
U.S.G.S.
GEOPHYSICS
LOG

SHIP NEECHO Boston Harbor

CRUISE NO. NECH 87-1

DATE June 18 - July 21, 1987

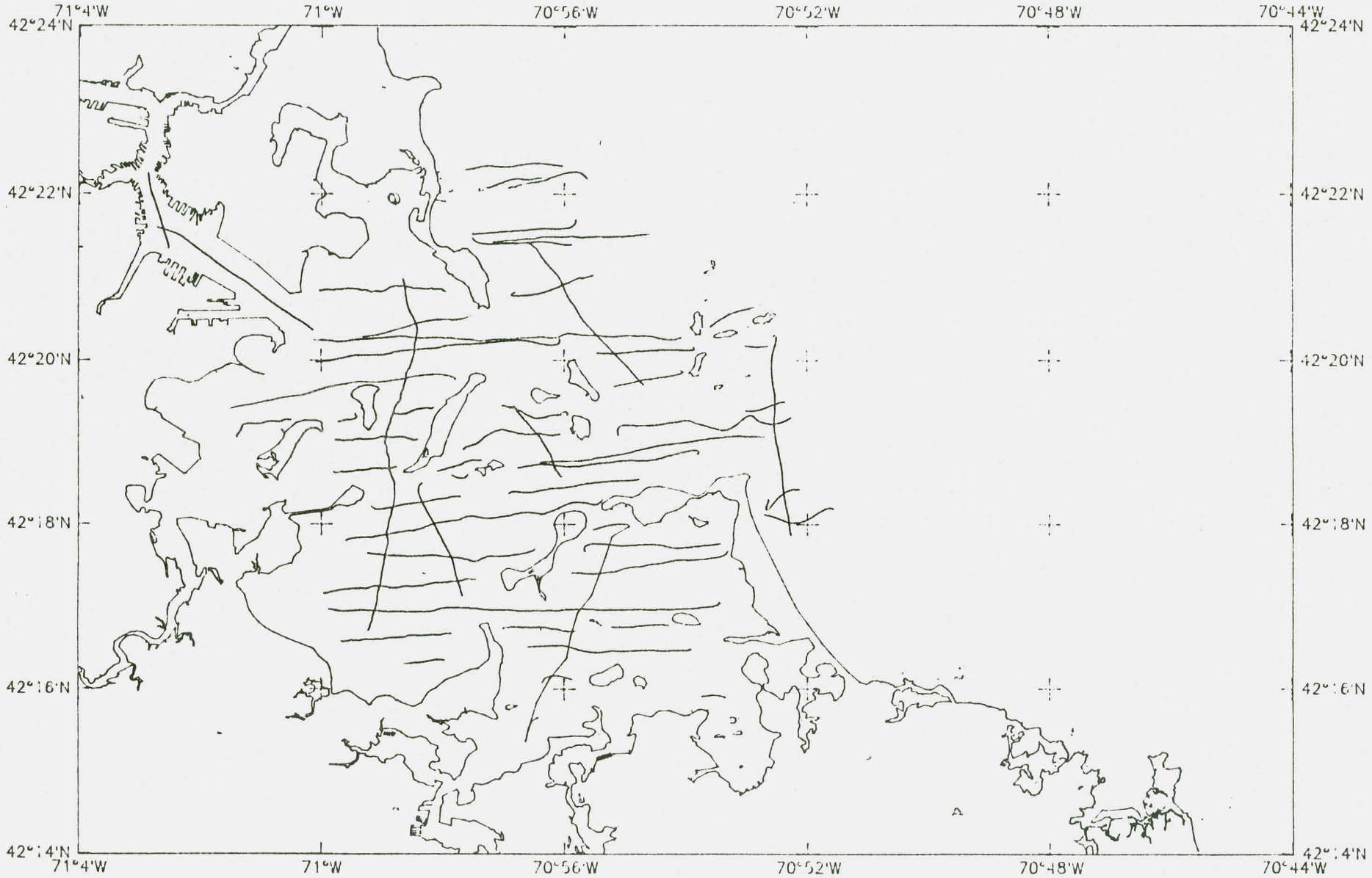
CHIEF SCIENTIST Rick R Rendigs



BOSTON HARBOR - R/V (HARVEY) NEECHO
SEISMICS LOG NB7-1 6/16/87-8/7/87

Department of the Interior
United States Geological Survey
Branch of Atlantic Marine Geology
Woods Hole, Massachusetts

Boston Harbor



R/V Neecho – Seismic and Sidescan Sonar Survey

(1)

SHIP/CRUISE NO./LEG NEECHO 6/18/87

CHIEF SCIENTIST R3 BOSTON HARBOR

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
						Beauty of a day
LN 16						3.5, UNIBOOM, SIDE SCAN
0855		6/18/87	210	3.5	MEGA PULSE	Have a nice day!
EOL 0947					1H 040.77 / 25802.59	Tape counter 1159
LN 001	SOL 0952	*	by 9H	5.0	14039.59 / 25803.42	Tape - 1220
	EOL 0954				14038.01 / 25802.98	Tape - 1258 - shallow water shoal
LN 002	SOL 1001		86	4.3	14035.62 / 25804.98	tape - 1357
	EOL 1001				14032.18 / 25801.63	tape 1431
						END TAPE 1
LN 55	SOL 1144	4.4	264		13994.47 / 25783.26	Tape 559 * - see my notebook for SOL??
	EOL 1154					" 768
LN 44	SOL 1205	5.1	66		14000.83 / 25791.78	Tape 990 - off Nantasket
	EOL 1213					1087
53	SOL					
	EOL 1236					
19	SOL 1303	5.9	285		13998.3 / 25797.57	TAPE* 3 @ 12:59
	EOL 1333		↳		14023.19 / 25821.28	SOTape 000
			tail Omega			EOT 820
			exit 242			
24	SOL 1354	4.8	87		14012.74 / 25814.17	tape 1147
	EOL 1429				13993.54 / 25794.97	tape 1645
25	SOL 1433				13993.25 / 25796.71	Tape 4 000
	EOL 1458				14009.33 / 25821.57	436
36	SOL 1515	3.7	330		13991.47 / 25803.38	SOT 1345
	EOL 1557		↳ Vs,	218.9	13996.14 / 25804.43 on megajulse	EOT 1517 EOT 4
37	SOL 1626					SOT 5 → 326
	EOL 1631					450

* - all times are local

V10, 375

(2)

SHIP/CRUISE NO./LEG NEECHO · BOSTON HARBOR

CHIEF SCIENTIST RENOLDS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
26	SOL 1651		179	3.7	13990.68/25802.75	Time = ~900?
	EOL 1725					Time = 1373 450
						THE END OF THE
						DAX - BACK TO
						CG
6/19/87						
5/2	SOL 0919		~~323~~ 3	2.0	14007.3/25814.38	SOT 1400 EOT 5 0943
	EOL 1005				14045.07/26011.37	EOT 520 SOT 6 000 · 0945
51	SOL 1050				14002.98/25839.30	SOT 1360?
	EOL 1109				14013.68/25850.42	EOT 1547
						Time
50	SOL 1115		80	2.0	14013.13/25847.39	SOT 1631 EOT 6 1125
	EOL 1174				14005.37/25840.22	000 - SOT 7
						EOT - 45
49	SOL 1135				14004.71/25834.15	SOT 1135 Time 294
	EOL 1152				14016.64/25845.07	EOT 665
48	SOL 1200				14016.75/25844.86	start new 0835
	EOL 1215					new region 1077
						new numbering roll #2
47	SOL 1228				14001.17/25835.60	1279
	EOL 1243				14010.35/25834.51	1491
46	SOL 1252				14015.42/25835.91	1613
	EOL 1307				14005.07/25826.81	1300 - EOT 7
						1305 SOT 8 - 000 - 073
42	SOL 1327				13957.73/25824.42	593
	EOL 1353				14014.91/25842.11	1077

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SHIP/CRUISE NO./LEG NEECHO

CHIEF SCIENTIST RENDIGS BOSTON HARBOR

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
						TAPE COUNT
H3	SOL 1407		264	3.8	14021.57/25839.60	1273
	EOL 1425				14034.40/25850.81	1536
			279	2.0		
H4	SOL 1442				14039.34/25857.41	1572
	EOL 1514					Recording Tape 8
H4A	SOL 1520				14050.52/25880.31	SOT Tape 9 180
	EOL 1532				14047.98/25887.80	495
6/23	1107	Harrys Rock			14027.53/25808.56	Loran tests
	1127				4217.2/7055.91	
	1139	Pig Rock			14032.41/25809.18	Loran tests
	1151				4216.8/7056.3	
6/24	0856:30	Harrys Rock				Loran tests
	0921:30					
	09:49	Pig Rock				tied up at slip -
	10:10:30					monitor 14K + 25K TD's -
	10:34:30	Weymouth Fore River Piling #18				relative to TD's plot
	10:47:00					for overlays +
						voila ASF type
	11:29:30	Dunken Ledge #2 piling				
	11:36:30					
	12:16:30	Inner Harbor LB (piling) #5				
	12:37:30					
	13:24:00	Georges Island - W. end of dock				
	13:36:00					

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SHIP/CRUISE NO./LEG NEECHO / BOSTON HARBOR

CHIEF SCIENTIST RENDELS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	SOL 53					No gear over side - a test of new filter settings + stability of system! This area was worked once before - all covered back to same pt.
	1406:00			4.5 knots		
	EOL					
	1409:00					
	SOL 54					
	14:19					
	EOL					
	14:21					
	SOL 55					lost Loran signal 14K upon turn after Ln 54. (14:22:23) Back to the base - never started Ln 55 - TD's (14K) ~~bbb~~ jumped cycle + debug Loh both in.
	1439:00					Tuned magnetometer receiver off + on.
6/25	SOL 18				Rough dry	Tape ON OFF
	10:40				14005.73/25803.17	~850
						Continue Ln on other side of island.
	1108					3.5 paper change
	EOL					
	1110				14026.28/25823.68	1275
	1119					boomer off line - boomer on - fouled
	1121					

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SHIP/CRUISE NO./LEG # NEECHO

CHIEF SCIENTIST RENDIGS - BOSTON HARBOR

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
18A	SOL 1140				14031.20/25828.56	Tape on 1695
	EOL 1142				14032.52/28829.54	Tape off 1711
						Tape 9 off
17	SOL					Tape 10 - 000 12:01
	1159				14043.39/25837.82	
	EOL					
	1216					Tape 356
	SOL					
17A	1229				14028.15/25827.45	Tape found 585
EOL	1255				14013.33/25808.13	990
14	1309	SOL			14048.47/25811.02	1179 - end
→	1319					tape gap
	1327					new tape #11-000
EOL	1359				14048.20/25838.46	760
SOL	56	1421			~~14036.62/25833.42~~	Tape 1150
EOL	56	1440			14038.93/25820.58	1428
					14036.62/25833.42	
SOL	13	1459			14028.56/25815.51	1668
		1506				end Tape 11
		1507				start 12 - 000
EOL	13	1527				508

(b)

SHIP/CRUISE NO./LEG NEECHO - BOSTON HARBOR

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
6/26/87						
	0900					We're here - fog 0.5 mile - Did we work - P.S. - no wind!!
SOL	15					
↳	0952				14017.34/25805.91	→ 3.5 recorder down
EOL	0959				14021.20/25809.88	Tape 779
						906
						3.5 KHz on 10:01
SOL	12	1008	82	3.2	14023.27/25809.17	Tape 1069
EOL	12	1034			14008.51/25774.01	1430
SOL	11	1037			14008.19/25792.65	1460
						EO tape 12 1:00
EOL	11	1107			14025.98/25809.31	SO Tape 13 1101 000
						5 1243
						off sunbeam #3
		1116				New sunbeam paper #4
SOL	5	1131	277	4	14018.64/25796.38	643 - Tape
EOL	5	1141			14024.96/25800.74	858
SOL	4	1157	274	4.5	14018.35/25790.50	1120
		1202				Raise 3.5 fish a few
EOL	4	1227			14034.99/25809.29	feet - shallow
						1540
SOL	6	1233	66	5	14036.45/25813.27	1612
		1245				END TAPE 13 000
EOL	6	1247			14029.05/25804.75	START 14 5 150
		1250				3.5 DOWN

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SHIP/CRUISE NO./LEG NEECHO - BOSTON HARBOR

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
~~SOL~~ 3						
	1301					3.5 UP
SOL	3	1324			14017.06/25782.55	Tape 801
						change side scan paper
		1327				Side scan on
EOL	3	1329			14019.56/25785.18	891
SOL	9	1354			14012.17/25790.06	1010
		1442				Tape 14 off - end
		1448				Tape 15 on 000
EOL	9	1455			14054.57/25836.30	Tape 230

(8) 1604 117

SHIP/CRUISE NO./LEG NEECHO - BOSTON HARBOR

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
		6/29/87				
SOL39	10:03		270	4	14013.47/25827.48	Tape 15 - 399
EOL39	10:47				14040.82/25854.57	1173
	10:57					3.5 PAPER CHNG.
SOL40	10:58		84	4.4	14039.89/25856.55	1345
	11:00					3.5 up
						* - note all tapes not rewound.
≈	11:29					tape 15 off - 1719
						also Twig swapping leads 5+7 on HP & track - higher END off data (freq). CUT OFF - NOW O.K.
≈	11:30					Tape 16 ON - 000 AT
EOL HO	12:19				14000.50/25813.50	Tape = 1197
	12:30					3.5 down
SOL 41						
	12:32					3.5 up
SOL 41	12:34					Side beam Paper change
	12:36					Side beam - up
SOL 41	12:40				13990.20/25806.83	Tape 1507
EOL 41	12:49				13996.82/25810.93	~ 1660

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SHIP/CRUISE NO./LEG NEECHO BOSTON HARBOR

CHIEF SCIENTIST RENOIRS 6/29/87

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1310					Tape 16 off - T1 on
SOL						
38	1311				13999.79/25811.52	
	1312					Tape 17 - on - 000
EOL	1328				14010.38/25822.18	489
	1345					MEGAPULSE LOST LOCK ON
SOL						25K
36	13:49				14015.34/25746.68	Tape 880 - Dead
EOL	13:54				14018.25/25726.49	960 - Reckon
	1400					MEGAPULSE BACK ON
	1408					(#1) RCN #1638 - last
					Record on NAV	DISC (JF231). Something
						appears as pointer spacing is dbl
						line suddenly - reformat?
						& Formatted new disc -
					#2	
SOL	35					Tape 1380
	14:22				14002.61/25811.35	
EOL	14:34				14010.52/25817.69	1557
	14:43					Tape 17 - off 1650
						Tape 18 - on
SOL	33					
	15:14				14022.06/25836.80	Tape 075
						3.5 Paper faint
	15:16					3.5 back up
						now - spooled off
						data + rethreaded onto
						new spool

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SHIP/CRUISE NO./LEG NEECHO - BOSTON HARBOR

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1534					UNIBOOM OFF-BELT CHNG.
	1537					UNIBOOM ON LINE
EOL	33					991
	1556					SIDE SCAN ROLL-TAPE OFF
7/1/87	0934	-START			4218.01/7054.67	AT CG DOCK
	0938	FIN				
					Below positions from C. Musch Light Dist.	OFF TO HARRY'S ROCK
	10:02				4217.2	ARRIVE HARRY'S ROCK
					7055.9	switch to 30 sec. + printout
	10:14					off Harry Transit to Pig
	10:25				4216.8	Pig Rock abeam
					7056.3	37' antenna to center piling.
	10:35					away Pig
	10:45				4216.1	Buoy #18
					7056.1	
	10:57					away from #18
					→	SWITCHED TO SAT

SWITCH

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SHIP/CRUISE NO./LEG NEECHO - BOSTON HARBOR

CHIEF SCIENTIST RENNIES

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
1135						Back to PD. alleston drop off Tom O'B + Mike Kell.
1231					4218.5	buoy #8 - Tony Dal.
					7058.5	shoal B rd by bridge
1241						AWAY
1252					4218.9	SCULPIN LEDGE #2
					7058.9	
1259						AWAY
1317					4219.9	BOUY #3 - PRES.
					7059.50	ROADS - N. SPECTACLE
						ISL.
1326						AWAY
1344					4219.0	BOUY #5 - DORCHESTER BAY
					7101.3	Main channel
1356						AWAY FAM #5
1417					7100.50	buoy #5 - E. Castle
					4220.0	Isl. (S. Prea. Roads).
1429						AWAY
1454					4219.4/7057.5	BOUY #13 - LONG ISL. HEAD
1501						AWAY
1519					4221.1/7056.2	BOSTON HARB. - N. CHANNEL
1524						BOUY #8 - E. of
						DEER ISL.

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SHIP/CRUISE NO./LEG NEECHO - BOSTON HARBOR

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
16:04					4118.9	Nantasket Roads - S.
					7055.0	approach #8
16:~~18~~ 20						AWAY
16:52					4221.1	3½ fathom ledge
					7050.5	bell buoy #2
17:02						AWAY
17:23					4218.6	HARDING LEDGE
					7050.7	#1 HL buoy
17:33						AWAY
						OFF TO LNS. 53,54
						to test side scan
						+ LORAN check - check
						to see when we
						loose it!
SOL	53	17:53				only a test
EOL	53	18:00				
SOL	54	18:07				
EOL		18:14				
		19:30				the end
						SWITCHED BACK TO LOCAL TIME
7/2/87		12:03			4216.4	More ASF
					7044.9	
		12:15	AWAY			Davis Ledge - long off
						Minots Ledge

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SHIP/CRUISE NO./LEG NEECHO – BOSTON HARBOR

CHIEF SCIENTIST REYNOLDS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
1306					42 22.7	BOSTON LIGHTED HORN
					7047.0	145° on buoy
						NFG - too much metal S/N extremely variable ~~0 to 2~~ +5 to -20 on 12K chain.
14:06						Side Scan - only a test
~~14:06~~						
14:31					42 23H	buoy BW "BG" M.A
					7051.5	north of the Hoover
						140° on buoy
14:41						AWAY
7/7/87						left mooring 08:45
	0930					3.5 smoke/ - off line -
						BAD PLUG - BACK TO SHOP
SOL	008					Tape 1204
	10:05				14049.20/25822.86	132T
EOL	008					SYSTEM CRASHED -
	10:12					SHALLOW H_2O -
						TOOK OFF disc #1
	10:42					Side Scan paper change

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SHIP/CRUISE NO./LEG NEECHO – BOSTON HARBOR

CHIEF SCIENTIST BENNIS + Co.

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	10:48					last alpha-numerics on side scan - no annotation
SOL 007	10:50				14054.59/25832.0	Tape 1502
EOL	11:08				14042.32/25819.24	1616 EOT #18
SOL 010	11:24		270	5.0	14036.48/25820.19	SOT #19 11:26 20000
EOL	11:47				14053.62/25837.38	Tape 596
SOL 45A	11:58				14051.00/25829.34	Tape 508
	12:24					Side scan fouled w. weed - pull up
EOL 45A	12:51				Fig 0 →	1564 OFF #2 NAV DISC. Time to fuel up < 1/3 rd. Off 2 Marina Bay in Dorchester Bay btw gas tanks + elec cables

18 30 1441

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SHIP/CRUISE NO./LEG NEECHO ~ BOSTON HARBOR

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
7/7/87						Transit to Ln 20
	SOL 20 1501		75	4.2	14034.43/25832.48	Tape 1578
	EOL 1508				14028.97/25829.48	Tape 1666 ~ ran out
						On tape #20
SOL 23	1521				14030.41/25831.03	(1833) ~ 175 tape # not reset 1833-1666 approx 317
	1536					
SOL 27	15:49				14017.27/25826.21	597
EOL	15:59				14023.58/25829.49	765
SOL 28	1604		130	4.7	14022.87/25828.39	829
EOL 28	1617				14021.41/25817.35	1016
	16:51					Black boxy #1 at mouth of Weir R. (Hull Bay)
	17:03					loosing lock w. mega, LOP suspect - outside of this everything OK?

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SHIP/CRUISE NO./LEG BOSTON HARBOR – NEECHO

CHIEF SCIENTIST RENDIGS + CO.

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
7/8/87	0726					Acquire TD's at PD. Allerton Dock
	0740					
7/8/87						
	SOL					
	45				14022.64/25844.01	Tape 1100
	0837					
EOL	9:02				14035.84/25858.75	Tape 1401
	0911					Off Tape 20
	0915					Tape 21 on
SOL						
29	0937				14030.89/25837.48	Tape 350
EOL	0944				14035.57/25841.66	419
SOL	22					
	0953				14034.53/25837.63	Tape 515
EOL	10:07				14042.14/25845.34	659
	922					

(M)

SHIP/CRUISE NO./LEG BOSTON HARBOR - NEECHO

CHIEF SCIENTIST RIENOLDS ETC.

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
SOL 21	10:13				14045.45/25844.84	Tape 720
EOL 21	10:23				14038.41/25837.56	811
SOL 30	10:31					Tape 912
					ABORT ABORT ABORT	NFG - RERUN - NAV SCREWUP
SOL 30	10:39				14039.73/25846.42	Tape 956
EOL 30	10:43				14042.06/25847.77	990
SOL 31	10:53				14046.89/25853.44	1070
EOL 31	11:01					1130
			note:		at 10:58 - lost power to boomer, glitch in side scan, printer not updating - but screen OK - ???	
12:30		tape off to dock				

an appropriate ending to this job!!!

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SHIP/CRUISE NO./LEG BOSTON HARBOR - NEECHO

CHIEF SCIENTIST RENOLDS + Co.

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
7/10/87	0730					foggy - vis ~ 500'
						at boat mooring - had
						to get off dock -
SITE B - BRAD B.						no monitory signals
	0915					away from mooring
						off to site B - fog
						lifting slowly
SOL	10:55		50	5.3		
						Tape 1210
	HH263					
	11:11					slow to 4 knots -
						losing some of the bottom
EOL	11:30					Tape 1664
						END Tape 21
	11:37					ON Tape 22
SOL TO HH265						
	11:38		250	5?		Tape 037
EOL	12:06					787
						visibity improves to
						abt 1 mi

SHIP/CRUISE NO./LEG BOSTON HARBOR - NEECHO

CHIEF SCIENTIST BENDICK + CO.

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
Site B						
SOL HH266	12:12					Tape 929
	12:30					3.5 down - strikes beg.
EOL HH266	12:45					1585 ~~TB~~ - dots ~~this was~~
SOL HH267	12:48		277	5.0		~~166~~ 1616 3.5 up
	13:13					Off W. sumboom roll - 3.5 records also on here for site B (Pat O) side scan off - recorder probs
EOL HH267	13:14					SS. up 2032
						3.5 problems 12:50
SOL HH268	13:21					2131

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SHIP/CRUISE NO./LEG BOSTON HARBOR - NEECHO

CHIEF SCIENTIST REYNOLDS ETC.

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
13:27						change SS scale 300m - still getting ~~those~~ sysmodic problems in record
13:30						pull in field - repair off fins - caught lobster pot line
13:40						- reset fins + redeploy
						3.5 still screwy
13:58 EOL 44268						2669
						3.5 probe with receiver
SOL 14:01	44269		250	4.2		Tape 2689
EOL	14:32					3080
SOL 13972 (N)						3095
	14:33					13972/44269.2 This line N over ROV #20
						3.5 up + down - probe w. receiver
EOL	14:49					3291 - end of tape

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SHIP/CRUISE NO./LEG RENNIES

CHIEF SCIENTIST BOSTON HARBOR - NEECHO

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
TD						
44277						Tape ran out
(E)	14:50		75	5		
	15:02					Tape 23 - on 008
EOL	15:04					075 (?)
44277						
SOL						
13962 (S)						
	1505					Tape 109
	15:08					hit. off line - avoid another ship. OK
	15:17					3.5 up
EOL						
13962	15:22					611
SOL						
13961 (S)	15:32		177	4.5	13961.61/25785.33/44273.52	880
						MORE FOG < 500' visib.
16:02						sighted seagull - avoided, same
16:04	EOL 13961					1491

Fini site B

SHIP/CRUISE NO./LEG BOSTON HARBOR-NEECHO (21)

CHIEF SCIENTIST RENDIGS + Co.

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
0800						Loran
7/14						~~BF~~ at D.P. alleston dock
0823						sled
0833						done
0845						off to site C
10:05						Were here - over da side w. Side scan + 3.5 KHz -
10:20						no side scan sig - being in feath - prob. w. connector - TOB fetch from plug.
11:30						Problem w. fish - shorting out in water.
11:45						Back to the barn Tom talks to Ken R. - will bring new fish up.
						off for gas at Marina Bay
16:00						Side scan recorder input - at D.P. alleston dock - Ken is here - 5 of 6 #'s on megabucks

HARB

SHIP/CRUISE NO./LEG (22) NEECHO - BOSTON

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
7/16	0830					boom readings at dock - things a bit frantic w. C6 - a boat sinking off Deer Island - troops setting up sidescan, etc.
	10:20					Off to site C
						bubbley - slo down - N.E. Seas - 1-2' - Harvey Neecho unhappy
	12:00 ~~12:30~~					Were here - boomer problems - 13: fixed
	13:00					
	13:15					more side scan problems - same symptoms as Tues (14th) - swap cables - feath OK -
	14:20					lets go start a line - after side scan cable change + recorder swap - Jesus Christ who said science was fun on the Neecho!

SHIP/CRUISE NO./LEG (23) Borden Harbor - Neeko

CHIEF SCIENTIST Rev Lyn

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
Site C						still
SOL 13890	14:28					Tape 1494
						will try to F6 - on-off the Nav. disc as we start + stop a line to help cruise track plots - & hope
EOL 13890	14:45					Tape 1768
SOL 13892	14:31					1911 seas have come down to abt 1' but this is the Neeko + it moves like shit through a goose!
EOL 13892	15:07					2111 NAV DISC OFF FOR THIS LINE - FORGET THIS ON-OFF SHIT!!

SHIP/CRUISE NO./LEG (24) BOSTON HARBOR - NEECHO

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
SITE C	15:11					Turned on Nav. desk
SOL 13893	15:14					2213
EOL 13893	15:27					2397
SOL 13894	15:37					2537
						Boomer pwr increased to 280 joules from 105 - better resolution on boomer records - still some noise in records. Boomer is being towed from A-frame cable
EOL 13894	15:51					2718

SHIP/CRUISE NO./LEG (25) BOSTON HARBOR - NEECHO
CHIEF SCIENTIST REWINGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
~~SOL~~						
C						
SOL						2824
13896						
	16:00					
	16:14					2996
	16:33					Off tape #23
SOL						
~~44269~~						
44269						
	16:34					
	16:35					On tape #24 000
						Better resolution on boomer records on E→ lines)
						Joe slowed to 3 knots into the wind
EOL	1700					715
SOL	44268					
~~EOL~~	17:07					868
						1288
EOL	17:27					Uniboom record end

FINI

off at 17:10-22
Ran out of paper!

SHIP/CRUISE NO./LEG (26) BOSTON HARBOR-NEECHO

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
7/17						NO LORANS AT DOCK
	SITE B (REVISITED)					sunny, warm, happy
0930						AWAY TO SITE B
10:16						Were there - tossing in equipment - probs w. "new" boomer recorder - whats new!
SOL						
44266						
	11:02					1738
	11:08					Boomer off - found line
	11:17					boomer on
	11:24					looks like a bit of a basin under the tripak rate - 1/4 sec. sweep - 10 traces ea. one abt 17m.
	11:34					starts evident in this basin feature
EOL 44266	11:40					2305
SOL 13958						
	12:10					2712
EOL	12:44					3124

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SHIP/CRUISE NO./LEG BOSTON HARBOR - NEECHO

CHIEF SCIENTIST RENDELS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
SITE B - AGAIN						
SOL						
13960						3217
	12:51					
	12:57					Tape off
	12:59					Tape 25 ON Line
EOL	13:25					
13960						4019
SOL						
13961						
	13:28					4098
EOL	14:07					4887
SOL						
13962	14:13					4966
	14:28					Boomer paper change
	14:34					boomer on
EOL						5497
13962	14:46					
						Computer shut off before end of file - who knows what happens
			FIN!			

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SHIP/CRUISE NO./LEG NEECHO - BOSTON HARBOR

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
7/20/						PA
	0830					Loran aD clocks
	0845					off to Battle site E
	0945					at site E - deploying equipment
SOL	10:09					5530 Site E
E	13937.5					truncated
	10:16					problem w. boomer annotator (clock)
	10:17					fixed
	10:25				bad data	more winch wire on boomer
EOL	13937.5					
	10:28					shut off disc (F6)
SOL						5839
	13938.5					
	10:44					~~6029~~
EOL						6029
	10:58					
	13938.5					
SOL	13950.5					6309
	11:20					
BATELLE SITE D						
EOL	11:35					6479

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SHIP/CRUISE NO./LEG Boston. Harbor- Neecho

CHIEF SCIENTIST Rendigs

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
						#25
ROV SITE						Tape ~~on~~ OFF
	43					
	11:46					6799
	11:51					Tape 26 - ON
EOL ROV	11:55					6899
	12:03					shut down boomer recorder problems
SOL ROV	19					7299
	12:13					
EOL	12:28					7640
	12:30					> SNAGGED LOBSTER POT
SITE E	12:40					PULL IN GEAR
	12:43					OFF 2 SITE C
SOL						
SITE	13961.5					
C	13:00					8240
≈	13:20					ABORT - snagged lobster pot - in w. gear 8554
	13:45				boomer sled flipped over	
	13:48					OK
SOL C1	13961.5					8554 - gone
	13:56					Tape WAS off
EOL	14:09					

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SHIP/CRUISE NO./LEG BOSTON HARBOR - NEECHO
CHIEF SCIENTIST RENDIGS + Co.

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
14:15						boomer sled flipped again - air + recy - side scan retrieved up - lost fish - saved by safety line - back in w. everything Life on the
15:00						Neecho is very convenient!
						Mucho lobster pots in area - v. tough to do in fog
						New side scan paper
BATELLE SITE B $B_1 \rightarrow B_3$						
SOL	139715.5					
	15:20					9303
EOL	15:46					9622
						Tape 26 off
	16:00				new course - bottomed	Maneuvering for S.S. fish - out - lost fish!
						END OF DAY

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SHIP/CRUISE NO./LEG BOSTON HARBOR - NEECHO

CHIEF SCIENTIST REYNOLDS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
						Tape # 27
7/21	0800					Were here at PA dock - off loading winch for side scan + setting up - also M. Hill (BU) on leaving Nav, etc. Forward Deck
	10:00					off to site A + start ROV sites S. of site A add TO Ln 44286.5
	11:00					Towing over the gear
SOUTH SITE A SOL	OF RODS 44286.5					
	11:34					490
EOL	11:59					1137
SOL	13993 12:04					1280
EOL	12:07					In w. side scan - SHORT IN THE CABLE BRING BACK IN.
	13:00					new cable - pull back in - looks OK - off 2 do Ln. 44292
SOL	44292 13:00					1423
EOL	13:36					2036

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SHIP/CRUISE NO. / LEG AT BOSTON HARBOR - NEECHO

CHIEF SCIENTIST RENDIGS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
SOL						
44294	13:47:15					2189
						lobster pots galore
	14:14					hooked pot - wire w. gear
EOL						
						2564
SOL						
44295						2560
	14:29					
	14:32					boomer off - new belt.
	14:37					up again
EOL	15:02					2891
SOL	44295.5					2914
	15:04					
	15:08:30					single gear, gear dug back on
	15:12					
EOL	15:29					3210
44295.5						
						Tape 27 off
						~~Tape 28~~
SOL	15:31					
44296						
	15:38					Tape 28 - 000

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SHIP/CRUISE NO./LEG BOSTON HARBOR - NEECHO

CHIEF SCIENTIST RENOLDS

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
STE A						
LN 44296						4160
EOL	16:08					
SOL 44297						4260
	16:13:30					
						11730
EOL	16:37					
SOL						4822
44299		16:42				
EOL		17:13				5352
SOL						
13987		17:33				5628
						New uniboom roll
EOL		17:57				