85035 g ph

GYRE 85-G-11
GEOPHYSICAL LOG

Gyre 85-G-11
Geophysical log

U. S. GEOLOGICAL SURVEY
OFFICE OF ENERGY AND MARINE GEOLOGY

Woods Hole, Massachusetts
02543

1985

85035
GYRE
85-11
104231

850235ph

U.S.G.S.
GEOPHYSICS
LOG

SHIP R. V. GYRE

CRUISE NO. 85-G-11

DATE 6 October 1985

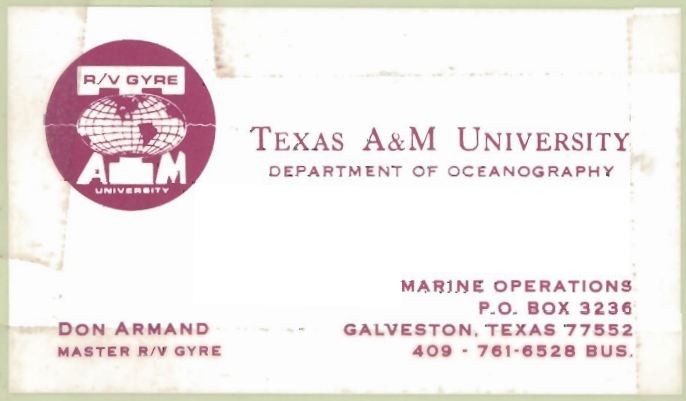
CHIEF SCIENTIST Kim D. Klitgord

Watches 6 - 20 Oct 1985

Kim Klitgord
local 0-4 John Brooks
z→(4-8) Sarah Dunlap
Jim Dodd (Nav)

4-8 Anne Trehu
z→(8-12) Dave Stewart
Dave Leeds
Barry Irwin (Nav)

8-12 Debbie Hutchinson
z→(0-4) Wally Bothner
Corina Savela (Nav)



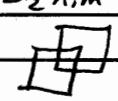
SHIP/CRUISE NO./LEG GYRE 85-6-11

CHIEF SCIENTIST Kim D. Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
—	2200Z	85-10-6				
	~~0800Z~~	~~85-10-7~~				
	0500Z	85OCT7				
	~~0700Z~~					
	0800Z					
	0900Z					
	0925Z				41°33.63'N	
					69° 8.9182'W	

AREA Gulf of Maine

TIME ZONE +4 Zulu [Zulu = local +4]

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						Depart Woods Hole pier
						~~Start watches TREHU, LEEDS, STEWART~~
						Scientific party
						Kim D. Klitgord - USGS - chief scientist
						Deborah H. Gove - USGS
						Anne Trehu - USGS
						David Leeds - USGS
						David Stewart - USGS - Reston
						John Brooks - Univ. New Hampshire
						Wally Bothner - Univ New Hampshire
						Tom O'Brien - USGS
						Dave Nichols - USGS
						Dave Mason - USGS
						Sarah Dunlap - USGS
						Jim Dodd - USGS
						Jim McCullough - WHOI - USGS
						Corina Savela - USGS
						Greg Miller, USGS
						Dave Turner - LaCoste Romberg
						Oscar Febres-Cordero Univ Texas
						Barry Irwin - USGS
						Start Gravity Calibration
						double box 2½ n.m on sides
						
						Start U/W Watches
						Trehu - Leeds - Stewart
						and Gravity Box survey
						start MCS streamer
						deployment
						~~[illegible]~~ ~~deployed~~ 3.5 started

Magnetometer deployed

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Kliford.

LINE START / END	GMT TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1000	85/10/07			41° 30.93 69° 9.38	
	1030	85/10/07			41° 32.09 -69 9.46	
	~~1045~~					
	1100				41° 33.25 69° 9.93	
	1125Z					
	1200				41° 36.08 69° 10.95	
	1600Z					
	1700Z					
	1800Z					
	2000					
	2050					
	2100					

AREA Gulf of Maine

TIME ZONE +4 ZULU

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						magnetometer noisy - suggestion
						~~[illegible]~~ to stream further back.
						1030 pulling in mags to put a float on it. Start trip to deploy streamer
						Mags back on board.
						Tail buoy in water streamer being let out
						change watch - Hatch, Bothner
						line break in section #9, streamer brought back on deck and problem fixed. Streamer being redeployed change watch Klitgord, Brooks, Dunlap.
						Streamer out with 100m dead section and 150 feet leader, need ~ 300' total.
						winch bound and will not move streamer. Chain bound on lower side. Motor loosened and chain released. Now bringing in streamer because 2nd bird back does not respond & has surfaced.
						change watch - TREHU, STEWART, LEEDS
						start putting in guns; circle to come back on line. guns in water.

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	GMT TIME Z	YYMMDD	CRS/HDG	SPD ~~STW~~ SOG Bridge	NAVIGATION	SEISMIC SYSTEM
	2130	85/10/~~07~~				
	~~2240~~					
	2240					
	2300				41°33.66 69°6.63	
	2340					
	0000Z	85OCT08			41°35.7951	
					69° 10.3145	
	0030Z	85OCT08				
	0100Z				41° 33.78	
					69° 15.06	
	0130					
	0200Z	281 JD			41° 29.69	
					69° 15.79	
	0227					
SOL 1	0233		141.6/140.6	4.2/4.3	41 27.48	SP # 1
					69 14.69	SP #. 35 FA 10° port
	0252					
	0300		136.5	4.3/4.3	41 26.11	
	0305		C/A - 120.3		69 12.98	SP 165
	0315					
	0320					
	0327		C/A			SP 272
	0330		116.6/111.4	4.0/4.2	41 24.87	SP 298
	0349				69 10.87	SP 375

AREA Gulf of Maine

TIME ZONE ~~+4~~ Zulu

depth ~~SWP~~	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
					MAGNETOMETER TOWED ~ 500' Behind ship.	1730 Guns will not fire. power supply dum - circling to get back on line.
						2240 - change paper on 3.5KHz -
156m.						Streamer quiet - should be one line in 1 hour -
						2340 - started testing guns.
						C/watch Hutch, Bothers, & Dave steaming toward start of line.
						Power failure in lab all gear restarted ok.
						30 shots to start of line
						FA = 25° to port
133						SOL LINE 1
						Air pressure 1750
						Maggie probs - scaling
						SP 137-138 shut off port gun
						SP 165 - C/A 10° to port (
						Maggie still acting up - losing cycles
						Tommy working on reprogramming
						3.5KHz to annotate ev. 15 min
						instead of ev. 1 min
						C/A 10° to port
131						
						FA = 15° port

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD / SPD-water	NAVIGATION	SEISMIC SYSTEM
1	0400	281 JD	116.2 / 111.4	3.9 / 4.4	41° 23.99 69° 08.64	SP 430
			[illegible]	[illegible]	[illegible]	
	0430		116.6 / 110.1	3.6 / 4.5	41° 23.13 69° 06.43	SP 568
	0500		112.0 / 109.4	3.6 / 4.5	41° 22.35 69° 04.17	SP 700
	0530		107.5 / 106.6	3.2 / 4.5	41° 21.66 69° 02.01	SP 841
	0538					
	0600		105.6 / 108.4	3.5 / 4.5	41° 21.14 68° 59.78	sp 970 – off by about 10
	0612					sp 1016 file 1007 off by 9
	0630		73.4 / 80.4	3.6 / 4.2	41° 21.21 68° 57.69	sp file 1084
	0700		60.3 / 79.4	3.4 / 4.4	41° 21.75 68° 55.49	SP 1220 file 1214
	0730		62.6 / 74.8	3.4 / 4.1	41° 22.31 68° 53.29	SP 1350 file 1344
	0746					
	0800		54.1 / 66.4	3.6 / 4.2	41° 23.16 68° 51.70	SP 1490
	0830		60.9 / 64.6	3.8 / 4.2	41° 24.20 68° 49.00	SP 1630
	0900		64.3 / 72.1	3.7 / 4.1	41° 25.09 68° 47.00	SP 1760
	0930		68.9 / 68.6	3.9 / 4.2	41° 25.92 68° 44.57	SP 1900
	0945					

AREA Gulf of Maine

TIME ZONE Zulu (+4?)

Depth ~~SWP~~ (m)	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
135						Watch Change
						Kim, John, Sarah
146						
147.8						2 ~~3~~ 540 cu.in. guns firing at 25m shot
145.8						spacing
						Shot 1 ~ 850-860 last because
						tape deck turned off by
						mistake
139.3						
						course change 10° every 5 min
						starting @ 6:08
136.0						
133.4						
128.2						
						on course
123.8						
126.5					54662	Watch change
						shot points appear
						to be off by 8 compared
						to file #'s —
						0925 Mag chart paper change
						SOLTEC 1242
						We've been having problems keeping
						streamer tail up — streamer has
						consistently been 20+ degrees
						to port. Steven to be able
						to bring it up by programming
						it to go deeper — whatever
						works I guess.

SHIP/CRUISE NO./LEG GYRE - 85 - G - 11
CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	var CRS/HDG bridge	SPD-nav / SPD-bridge	NAVIGATION	actually FFID SEISMIC SYSTEM
1	1000	85 10 08	57.6/67.1	3.5/4.1	41° 26.71 68° 42.46	SP 2040
	1030		66.2/63.8	3.6/4.0	41° 27.49 68° 40.17	SP 2180
	1100		55.4/55.1	3.6/4.4	41° 28.34 68° 38.14	SP 2310
	1130		51.4/57.4	3.8/4.0	41° 29.44 68° 36.09	SP 2450
	1200		56.9/61.6	3.6/4.1	41° 30.41 68° 34.16	SP 2580
	1219		~~[illegible]~~	~~3.9~~		SP 2663
	1230		65.3/63.4	3.8/3.9	41° 31.43 68 31.83	SP 2719
	1300		63.5/64.6	3.6/4.1	41 32.27 68 29.58	SP 2854
	1330		42.5/40.1	3.5/3.9	41 33.03 68 27.50	SP 2992
						FFID 3015 SP 3023
	1356		~~[illegible]~~	~~[illegible]~~		FFID 3106
	1400		46.0/39.3	3.4/3.9	41 33.99 68 25.56	FFID 3124
	1410					FFID 3161 - last good shot
	1434					FFID 3162
	1441					FFID 3190 / SP 3190
	1444					
	1500		27.9/38.3	3.3/4.3	41 36.33 68 22.60	FFID 3262
	1530		26.5/27.8	3.1/4.3	41 37.67 68 21.77	FFID 3383
	1600		24.3/29.1	3.2/4.4	41 39.20 68 21.01	FFID 3502 SP 3500
	1630		27.3/24.1	4.1/4.8	41 40.85 68 19.86	FFID 3641 SP ~~[illegible]~~ 3640
	1700		~~[illegible]~~/22.1	4.7	41 42.97 68 18.62	FFID 3790 SP 3795
	1730		23.0/~~[illegible]~~	4.4/~~[illegible]~~	41 44.71 68 17.39	FFID 3957 SP 3960
	1800		26.1/27.4	4.4/4.4	41 46.66 68 16.14	FFID 4115 SP 4120
	1813					
	1830		28.2/32.4	4.6/4.6	41° 48.56 68° 14.76	FFID 4281 SP 4281
	1800		30.1/31.6	5.7/5.3	41 50.66 68° 13.13	4456 SP 4460
	1930		28.8/31.4	5.1/5.1	41 52.88 68° 11.39	4650
	2000		27.3/31.1	5.0/5.2	41 55.27 68° 9.74	4850

AREA Gulf of Maine

TIME ZONE Zulu (+04 local)

DEPTH ~~SWP~~	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
101.5					54650	
95.0					54640	Visual sighting of streamer tail
92.8					54655	float assembly.
90.3					54670	
87.8					54679	watch changed Debbie Wally Dave
						c/A 3° to starboard
1230Z 89.6					54694	
76.0					54686	
60.1					54651	turning to avoid fishing boat
						SP/FFID still off by 8
						c/A 10° to port
44.0					54628	
1410						POWER OUT IN LAB
				2586.4m		POWER OUT IN WHOLE
				lost		BOAT
						switched to aux then 2nd main generator
						Back shooting
						SP & FFID Synched with Nav.
						shut down 3.5 to change stylus
13.0					54611	
13.0					54623	
44.7					54645	watch change Kim, Sarah, John
46.1					54663	Tail Buoy 20° port Starboard compressor back on line
48.3					54675	end of tape 9 1659 (needed more air) FFID 3788
65.1					54684	tail buoy 14° port
					54668	
						lowered streamer - boat crossing stern
~~156.1~~					59759 MAGI's in trouble	tail buoy 12° port / 1854 increase speed
156.1					(54670	MAGI OK @ 1438)
182.9					54649	
?					54620	Watch change - Anne Trehu, David Stewart, Dave Leeds
						Paper change on camera record

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
1	2030	85 OCT 08	25.1/28.3	4.8/5.1	41° 57.32 68° 8.16	S.P. 5020
1	2031					
	2037					
1	2100		25.3/34.4	4.7/5.1	41° 59.55 68° 7.07	SP 5200
1	2130		32.5/43	3.6/4.1	42° 01.14 68° 06.11	File # ~~SP~~ 5330, SP 5332
	~~2200~~		31.8/43.1	3.8/4.1	42° 02.72 68° 04.85	SP 5470
	2212					
	2230		35.8/42.1	4.0/4.1	42° 04.39 68° 03.21	SP 5620
	2300		32.3/35.3	4.3/4.1	42° 06.09 68° 01.73	SP 5770
	2307					
	2309					
	~~2310~~					
	2310					
	2330		28.3/33.1	4.3/4.1	42° 07.96 68° 0.30	SP 5930
	2357					
	0000	85OCT09	37.7/34.1	4.4/4.2	42° 09.80 68° 58.85	File 6094
	~~0027~~					
	0030		31.5/25.6	4.2/4.0	42° 11.76 67° 57.36	File # 6257
	0042					
	0100		21.5/22.3	3.8/4.0	42° 13.54 67° 56.08	File # 6411
	0130		27.9/20.3	3.9/4.1	42° 15.40 67° 54.99	File # 6551
	0149					
	0157					

AREA Gulf of Maine

TIME ZONE Zulu

Depth SWP 157.8	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
					54627	Reel 13 mounted — ready.
						Dave Nichols had to repair brake
						3.5 off for paper change
						3.5 back up & running
207.4					54657	Speed changed to 4.5 nominal
						Filter changed to 10 -6dB
211.4					54643	
209.9					54649	Adjustments to 3.5 by Thos
						T2.1 float in good shape at sunset
192.5					54651	
193.0					54637	
					2307	Change belt on 3.5
					2309	3.5 back up + running
						Adjustments completed
					2310	Magnetometer want haywire. OK now.
						O'Brian waved his hands over it.
193.8					54642	
2355						Some problem w/ Loran — shots
						may be erratic keep an eye on
						it.
193.0					54650	
						Course adjust 3° to port
192.6					54636	
						Course adjust 5° to port
193.6					54650	no problems
193.4					54646	Seas calm - all OK
						Course adjust 10° to stbd.
						Course adjust 10° to stbd.

SHIP/CRUISE NO./LEG Gyre - 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM	
1	0200	85 Oct 09	47.9 / 41.8	4.0 / 4.1	42° 17.03 67°53.75	FILE # 6695	
	0222						
	0227						
	0229						
	0230		56.0 / 53.1	4.1/4.0	42°18.28 67° 51.61	FILE # 6848	
			~~53.1~~	~~4.0~~			
	0300		57.1 / 54.1	4.3 / 4.1	42°19.33 67°49.28	FILE # 6999	
	0318						
	0330		58.7 / 56.4	4.6 / 4.1	42°20.53 67°46.87	FILE # 7158	
	0358						
	0400		53.5 / 49.8	4.5 / 4.1	42°21.82 67°44.31	FILE # 7325	
2	0419					file #3	sp 1
	0430		357.7 / 349.1	3.6 / 4.1	42° 23.60 67°42.77	file 32	sp 30
	0443					file 112	sp 110
	0446						
	0500		324.9 / 315.6	3.4 / 4.6	42° 25.08 67° 43.41		180
	0531		319.3 / 319.9	3.7 / 4.6	42° 26.49 67° 44.83		sp 310
	0543					file 369	sp 367
	0554						
	0600		325.1 / 321.9	3.9 / 4.6	42° 27.88 67° 46.27		sp 440
	0630		330.6 / 323.8	3.6 / 4.6	42° 29.51 67° 47.56	file	sp 580
	0643					file 639	sp 637
	0700		327.9 / 325.8	3.6 / 4.6	42° 30.55 67° 48.41	file 710	
	0730		322.8 / 325.3	3.4 / 4.7	42 32.50 67° 50.06	file 839	
	0800		324.5 / 322.8	3.2 / 4.4	42° 33.84 67° 51.26		sp 960
	0830		330.7 / 323.8	3.1 / 4.4	42° 35.21 67° 52.45		sp. 1080
	0900		327.9 / 327	3.2 / 4.1	42° 36.60 67° 53.56		
	0930		328.9 / 325	3.2 / 4.5	42° 37.86 67° 54.62		1310
2 end	0950					file 1390	sh 1388
	1000		346.8	3.3	42°39.47 67°55.88		

AREA Gulf of Maine
TIME ZONE Zulu

~~SWP~~ DEPTH	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
194.2					54670	
–						3.5 KHz down change belt
						3.5 KHz back on
						course change 3° stbd.
202.4					54654	no problems
259					54656	everything OK
						course change 3° stbd.
					54687	3.5KHz PROBLEM WITH DEPTH READOUT
						course change 10° PORT
197.1					54723	TURNED OFF POWER TO DISPLAY - TURNED ON WORKS FINE (3.5KHz) END LINE 1
						Watch change Kim, John, Sarah
205.4					54734	Start of Line 2 File 3
208.1					54745	(There are two spurious shotpoint numbers in file so file 3 = NAVSP. 1)
						ON Line 2
206.6					54703	
210.1					54713	
						file - sp check
						File 415 and Tape # 19
221.5					54729	Start tape 20
225.2					54855	
						sp - file check
223.1					54810	
222.5					54778	0727Z change Bird 1 op depth to 10m
219.8					54751	0748Z 20° port C/A
						Watch Change Trchu, Stewart, Reeds.
225					54857	
197.2					54773	
236.5					54750	
						End Line 2
~~243.2~~ 200 m.					54732	~~Note: some of the depth readings may be [illegible] they were taken [illegible]~~

SHIP/CRUISE NO./LEG GYREOS-G-11

CHIEF SCIENTIST Kleitgard.

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1080	850CT09	22.5 / 208	3.6 / 4.7	42° 40.76 67° 55.67	
	1150		[illegible]	[illegible]	42° 42.01 67° 53.62	
	1130		109	3.7	42° 41.89 67° 51.15	
	1200				42° 40.66 67° 49.46	
	1230		191.1 / 211.4	3.4 / 3.5	42° 39.07 67° 49.19	
	1300		225.1 / 224	3.8 / 3.8	42° 37.64 67° 50.45	
SOL 3	1325		228.1	3.2	42° 36.65 67° 51.75	SP # 1
	1330		227.1	3.4	42° 36.48 67° 52.01	
	1358		[illegible]	[illegible]		
	1400		240.5 / 233.1	3.0 / 3.6	42° 35.43 67° 53.68	FILE # 137
	1430		238.6 / 232.1	3.0 / 3.8	42° 34.68 67° 55.40	FILE # 248
	1500		221.6 / 229	2.5 / 3.8	42° 33.97 67° 56.94	File # 352
	[illegible]					
	1502					
	[illegible]					
	1530		214.8 / 214.1	2.8 / 3.6	42° 33.04 67° 58.26	FILE # 450
	1531					
	1558					
	1600		205.9 / 214.1	2.5 / 3.3	42° 31.93 67° 59.29	FILE # 547 SP 548
	1630		212.4 / 218.4	3.2 / 4.2	42° 30.68 68° 00.36	file # 668
	1700		207.7 / 215.6	3.4 / 4.0	42° 29.32 68° 01.56	file 787 OFF SP 780
	1709					file 822 SP 823 right ✓
	1730		213.5 / 213.4	4.5 / 5.3	42° 27.44 68° 03.00	file 927
	1739					
	1800		208.2 / 211.4	4.9 / 5.4	42° 25.56 68° 04.45	file 1090 SP 1091
	1830		211.9 / 214.3	4.7 / 5.1	42° 23.78 68° 5.72	file 1245

AREA Gulf of Maine

TIME ZONE Z

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
195					54861	
195					54834	Turning to Line 3
195					54788	— monitoring streamer —
195					54844	Twig checked continuity
195					54819	& leakage — All set.
196					54765	
						PETD burst?? Record not
						coming on EPC
195					54820	
						Course adjst 5° stbd.
194.7					54880	
1950					54854	
196					54761	Had to reset depth readout
						M 3.5 – off scale
						Change paper camera oscillograph
						Minor compressor prob – notable lost
195					54714	
						Tape drive # 2 on DFS V
						will not load tape – Servo
						is not balanced. Call Tommy
						– then Twig who is coming
						TAPE DRIVE #1 OK – TWIGG fixed it
195.0					54750	
						Watch Change Kim, Sarah, John
200.0					54724	
192					54865	
						file /sp check (by phone)
175					84670	Port compressor is down
						D. Mason working on it 1400 psi NOW
						tail buoy 8° to port
180					54887	
					54934	tail buoy 12° to port

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
3	1837	85 Oct. 09				
	1900		214.5 / 210.4	3.9 / 4.5	42° 22.06 68° 07.17	file# 1390
	1930		209.0 / 210.1	3.9 / 5.0	42° 20.49 68° 08.55	file # 1531
	1956					
	2000		212.7 / 216.6	4.0 / 5.0	42° 18.77 68° 09.62	file # 1671
	2030		210.7 / 214.6	3.7 / 5.3	42° 17.16 68° 10.92	FAR 1820
	2100		205 / 216	3.7 / 4.8	42° 15.40 68° 12.28	SP 1970
	2130		216 / 205.8	3.9 / 4.7	42° 13.80 68° 13.26	SP 2100
	2200		211.3 / 218.1	4.1 / 5.0	42° 12.07 68° 14.25	SP 2240
	2230		208.4 / 220.3	3.5 / 4.1	42° 10.33 68° 15.63	SP 2390
2255	2300		215.1 / 225.0	3.6 / 4.8	42° 8.69 68° 16.89	SP 2530
	2315					
	~~2320~~					
	2320					
	2330		206.6 / 228	3.8 / 4.8	42° 7.16 68° 17.96	SP 2660
	~~2338~~					
	2340					
	2343					
	0008	851010	214.8 / 225.4	4.4 / 5.9	42° 5.51 68° 19.19	SP 2800
EOL3	0016					File 2874
	0030					
	~~0040~~					
	0040					
	0215					

AREA Gulf of Maine

TIME ZONE Zulu

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						Port side compresser on line
						Starboard side OFF
190					54869	tail buoy 8° to port
190					54944	
						Something on the streamer
190.2					54877	(or maybe pauty error on one channel) OK
						tail buoy 7° to port
						Watch Change
						channel 7 intermittently
						bad (from file 1655 –
						1750)
197.9					54882	
175					54812	
156.6					54759	from 2100 to 2140 near trace monitor
184.0					54766	was off
185.					54732	2255 – port gun off –
						slow down to 2 kts to
						retreive port gun,
						pick up speed again
195					54723	
						bring speed down to 1.8 kts
						and then back up again.
						port gun back on line.
173					54736	
						End line – rough weather
						30+ Kts 7 ft seas growing
						Not predicted to get better
						Haul Maggie
						Maggie in – Prepare to
						haul streamer
						All gear aboard & secured

SHIP/CRUISE NO./LEG G4RE-85-(G-1)

CHIEF SCIENTIST Klitgord.

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	0220	851010				
	1230					
	1300					
	1323				41 39.62 68 20.74	OBS C-3
	1324					
	1336					
	1342					OBS A-2
	1345				41 40.94 68 19.84	
	1401					
	1535					
	1546				41 58.30 68 07.60	OBS C-6/A-1
	1551					
	1755				42° 16.048 67° 54.933	OBS C-4

AREA Gulf of Maine

TIME ZONE (Zulu) +04 (GMT)

Depth SWP (m)	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						Lab shut down - plan to resume w/ OBS tomorrow ~6^{00} am.
						Near 1st OBS deployment - Seas moderated - preparing big guns for deployment/also.
21						Turn 3.5 khz on. Ready to deploy 1st OBS - but water too shallow - ∴ will steam along line until water is deeper
5[illegible]	unconnected					OBS #1 (OBS C-3) in the water
						Pick up speed to go to next site 2km down line
						Slow down
54	uncorr.					OBS #2 (OBS A 2) in the water
						Pick up speed for next site ≈ 2 hours away
						Turn 3.5 KHz off
						Near deployment
210m	uncorr				OBS#3	IN THE WATER OBS C-6 (code A-1 recall)
						Shut down 3.5 KHz
220m	uncorr.				OBS#4	C4 deployed —

SHIP/CRUISE NO./LEG Gyre 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1809				42° 17.047 67° 53.942 OBS #5 AB	
	1812					
OBS1	2155				42° 26.54 67° 46.64	OBS LINE #1 start
						5 - OBS's
	2205		218 / 213	4.3 / 4.8	42° 25.99 67° 47.14	1 - 2000 cu.in GI gun
	2230		209 / 215	3.7 / 4.5	42° 24.56 67° 48.34	
	2350		207 / 216	4.2 / 4.2	42° 22.78 67° 49.68	
	2302					
	2330		212 / 215	/ 4.9	42° 20.72 67° 51.18	
	0000	284 Oct 11	210 / 217	6.1 / 6.0	← speed high for 2 min. - back down to 5.0. 42° 18.5 67° 52.62	
	0005					+.043 } delay on mag comp. can be ignored
	0013					+.043
	0021					+.043
	0030		212	4.2	42° 16.27 67 54.34	
	0100		209 / 220	4.7 / 5.4	42 14.27 67 55.69	
	0130		213.3 / 220	5.1 / 4.7	42° 12.26 67° 57.48	
	0200		205.9 / 217	3.1 / 4.5	42° 10.31 67° 58.95	
	0230		212 / 219	4.4 / 6.7	42 8.53 68 0.39	
	0300		207 / 214	4.1 / 6.5	42 6.69 68 1.86	

SHIP/CRUISE NO./LEG Gyre 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1809				42° 17.047 67° 53.942 OBS #8	
	1812					
OBS1	2155				42°26.54 67°46.64	OBS LINE #1 Start
						5-OBS's
	2205		218/213	4.3/4.8	42°25.99 67°47.14	1-2000 cu.in. airgun
	2230		209/215	3.7/4.5	42° 24.56 67° 48.34	
	2330		207/216	4.2/4.2	42° 22.78 67° 49.68	
	2302					
	2330		212/215	/4.9	42° 20.72 67° 51.18	
	0000	284 Oct 11	210/214	6.1/6.0	← speed high for 2 min. – back down to 5.0. 42° 18.5 67° 52.62	
	0005					+.043
	0013					+.043 delay on mag comp. can be ignored
	0021					+.043
	0030		212	4.2	42° 16.87 67 54.34	
	0100		209/220	4.7/5.4	42 14.27 67 55.69	
	0130		213.3/220	5.7/4.7	42° 12.26 67° 57.48	
	0200		205.9/217	3.1/4.5	42° 10.31 67° 58.95	
	0230		212/219	4.4/5.7	42 8.53 68 0.39	
	0300		207/214	4.1/5.5	42 6.69 68 1.86	

AREA Gulf of Maine
TIME ZONE Zulu

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
215m					OBS #5	A 8 deployed
						3.5 turned off.
					2155	First shot fired from Transcomp —
						Had trouble w/ gun firing box.
						Firing 1 2000 in³ gun.
						@ ~~3000psi~~.
						analogue shot instant recorder not yet set up.
						Rough seas — and getting rougher —
213						2302 - ~~speed~~ pickup —
						— making ~5 kts steadily —
						probably ~6 ft. now —
?						blowing ~30 kts —
						forecast for up to 40 kts,
						seas, 5-10 ft tomorrow
210m						Hutchinson, Boothman in.
						both a tad green —
						along with Osc —
225m						
228m						
227m						3.5 kHz deteriorating - Tommy
230m						has done all he can — need
						better weather for this.
233m						
227m						

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
OBS 1	0330	851011	204/216	4.9/5.8	42 4.82 68 3.31	1×2000 in³ air gun
	0333					
	0359					
	0400		200/211	4.7/6.5	42 2.58 68 4.59	
	0430		209.9/226.6	4.7/5.5	42 0.39 68 5.90	
	0500		230.3	5.8/5.7	41 58.32 68 7.63	
	0530		199.8/222.4	4.4/5.4	41 56.[illegible] 68 9.09	
	0600		215.1/22.6	4.8/6.3	41 54.18 68 10.39	
	0630		210.4	4.6	41 52.25 68 11.97	
	0700		201/209.8	5.0/5.8	41 50.16 68 13.44	
	0730		215.5/214.9	4.6/5.0	41 48.06 68 14.72	
	0800		207.9/222.3	4.4/5.3	41° 46.086 68° 16.180	
	0830		214.8/222.3	4.4/5.5	41° 44.24 68° 17.67	
	0900		218.4/210	4.1/5.6	41° 42.45 68° 19.22	
	0930		203.3/202.	4.1/6.0	41° 40.65 68° 20.52	
	1000		218.7/209.4	3.7/5.9	41° 38.86 68° 21.33	
	1009					
	1030		199.0/204.3	3.1/5.9	41° 37.35 68° 22.17	
	1048		2[illegible]	6.0		
	1100		216.2/208.2	3.9/6.0	41° 34.06 68° 23.34	
	[illegible]					
	1110					
	1115		208.8	5.6		
	1130		208.8	5.6	41° 34.74 68° 24.81	
OBS 1 2ND.	1200		193	5.8	41° 33.35 68° 26.30	
	1210					
	1335					C3 released (range 84m)
	1337					C3 sighted
	1345					C3 on board.
	1442					A2 released
	1443					A2 sighted.
	1452					A2 on board.

1800-2200

the other OBS parely picked up (C4, A8, C6)

AREA Gulf of Maine
TIME ZONE GMT +04

~~SWP~~ Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
217m						Weather is awful
						c/a 5° port
						slow down
218m						
215m						
210m						0500 closest approach to OBS 3
203m						
200m						Masscom registers shotpoint on odd #'s and navigation registers on even #'s
189m						
150m						wind speed 20 knots
~~205m~~	103m					
~~165m~~	80m					
70m						
57m						Mason outside 0914; back 0918
						7 ft seas
54m						just S of OBS A-2, N of OBS C-3
49m						
25m						over shoal
18m						
20m?						3.5 hard to read - noisy record Oscar outside 1028 to 1030
?						Tommy working on 3.5 -
?						meter not useful yet
						Shot instant recorder tape channel
30m						3.5 working (part time) on .250 scale
50m						(0-187.5m)
57m						seas really sloppy! 8-10 ft?
						END OBS LINE 1
						GUN ON BOARD

SHIP/CRUISE NO./LEG 6YREBS-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG nav/bridge	SPD nav/bridge	NAVIGATION	SEISMIC SYSTEM
	1332	85/10/12				
						OBS LINE #2
	1344				41 48.51 68 2.51	OBS A8 OBS #1
	1350					
	1506					
	1511				41 58.32 68 07.57	OBS C-3 OBS #2
	1646				42° 7.49 68° 11.98	OBS C-6 (A1) OBS #3 deployed
	1825					
OBS #2	1830		161.2 / 161.0	4.3 / 5.1	42° 10.20 68° 13.20	Start shooting
	[illegible]					1-2000 cu. in gun.
	1900		157.2 / 161.0	4.3 / 5.2	42° 08.15 68° 12.22	3-OBS's
	1908					
	1930		164.9 / 161.0	4.2 / 5.3	42° 06.09 68° 11.25	
	2000		155.7 / 161.0	4.7 / 5.2	42° 04.02 68° 10.25	
	2030		161 / 161.0	4.1 / 4.2	42° 2.15 68° 9.27	
	2100		164.9 / 161.0	3.8 / 4.1	42 0.24 68 8.46	
	2130		162.8 / 161.0	3.4 / 4.2	41° 58.45 68° 7.68	
	2200		164.2 / 161.0	3.4 / 3.8	41° 56 84 68° 6.98	
	2230		164.1 / 161.0	3.0 / 3.4	41° 55.31 68° 6.27	
	2300		151.2 / 161.0	2.8 / 3.7	41° 53 96 68° 5.55	

AREA Gulf of Maine

TIME ZONE GMT + 4

SWP Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						Approximately 20 minutes to deploy 1st OBS on line 2. Seas moderated 4'-6' blowing ~20 kts, overcast. Water in lab still sloshing on floor but much reduced.
53m +	from bridge	fathometer			OBS #1	OBS over the side
56m +	from Tommy's scope					3.5 kHz not working.
~~53~~						
						Getting underway to next drop.
						Approaching next drop.
210m	uncorr.					OBS over the side
196m						
						Start shooting — 3.5 going; shot instant recorder going.
182m						
190m						
						just passed OBS C-6
212m						
222m						
225m						
222m						
212m						Over OBS C6 (A1)
200m						
180m						
171m						

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Kristgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
OBS2	~~2330~~	851012	~~164.7/164.0~~	~~3.8/4.5~~	~~41° 52.61 68° 4.80~~	(need wrong line)
	2330		152.3/161.6	3.8/4.5	41° 52.61 68° 4.80	
	2349					
	2352					
	0000	851013	164.4/161.0	4.7/4.4	41° 51.10 68° 3.96	
	0031		133/161	2.5/4.5	41 49.73 68 2.89	
	0100		160/161	3.5/5.1	41 48.36 68 2.05	
	0130		164/161	5.7/5.0	41 46.76 68 1.72	
	0200		170/161	3.4/4.4	41 45.09 68 1.25	
	0230		160/161	4.6/4.7	41 43.07 68 0.47	
	0300		169/161	4.6/4.4	41 40.86 67 59.59	
EOL OBS2	0323		161/161	5.1/4.0	41 39.03 67 58.98	
	0350					
	0550Z					
	0712Z					
	0842					
	0853					
	1035					
	1350					
	1424					

AREA Gulf of Maine
TIME ZONE +4

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
~~[illegible]~~						read wrong line
118 m						
						changed shot instant recorder tape
						missed shot at 1851 -
86 m						1852 Tape back on —
~~[illegible]~~ 60						Hatch & Bohner on -
50 m						
38 m						
33 m						
30 m						
25 m						
30 m	2000 in³ gun aboard		0338			EOL tape adg: 6372 tape window
						Increase speed to retrieve
						OBS. 1
						Recovered OBS #1 A8
						Recovered OBS #2 C3
						winds & seas have
						finally calmed
						recovered C6 (0842)
						OBS #3
						underway to start of multicha
						Slow down to deploy multichanne
						Streamer most of way out -
						prepare to deploy guns.
						Increase to tow speed. Guns
						in, streamer in.
						ch 7 = open

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
SOL 4	1445	851013	/ 55	4.9		SP 1
	1448					
	1508		53 / 155	4.0/5.6	42 24.04 67 38.67	
	~~1510~~					
	1510					SP 120
						file 121 - 143 not recorded
	1514					SP 144 = file 144
	1530		48/55	4.0/5.6	42 25.67/67 37.46	
	1545					
	1600		26/55	3.7/6.4	42 27.44/67 36.12	
	1615					
	1630		24.4/55	3.6/5.9	42° 28.99 67° 35.01	SP 500
	1633					file 503
	1700		25.1/55	3.4/5.6	42° 30.41 67° 33.98	file 622
	1714					file 683 = SP 683
	1725					file 733
	1730		33.7/55	3.7/5.7	42° 32.05 67° 32.75	file 754
	1745					
	1800		34/55	3.9/5.7	42° 33.63 67° 31.35	file 896
	1815					file 476
	1824					file 1012
	1830		38.7/55	4.0/5.9	42° 35.29 67° 29.78	file 1045
	1840					
	1850					
	1900		28.5/55	4.3/5.9	42° 36.93 67° 28.18	file 1200
	1930		32.5/35	3.9/5.3	42° 38.57 67° 26.60	file 1350
	2000		38.1/35	3.7/5.2	42° 40.18 67° 24.95	

AREA Gulf of Maine

TIME ZONE Zulu (local +04)

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						SP 82 = File 9
						Resetting shot 14 = file 14
256m						15 = 15 ✓
						ch 7 = open, guns = synched
						18 msec delay port gun
						Compressors down - salt
						water pump
						Reset file & SP - reset DFS V
259						Maggie being streamed
252m						
249m						watch change - Kim, John, Sarah
260m					54718	Mag. Recorder having polarization
260m					54718	problems
						1639 end of galvanometer roll
240m					54868	→ ITB showed up on DFS-V
						shotpoint / file check over phone
						ITB on DFS-V
215m					55024	
						Twig put the last tail DT on hold
						for about 30 m to handle the ITB
						messages
233m					54457	
						crossing over buoys ?10 buoys? (2 of them)
[illegible]						streamer raised to surface
241m					54634	streamer lowering
						streamer back to ~10m
						There is apparently alot of
						sea-surface / seafloor multiple
						reflections on the photo record - OK
221m					54734	
230m					54709	
248m					54705	Change of the guard:
						Anne, Dave, Dave

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST KIM KLITGORD

LINE START / END	TIME Z	YYMMDD	CRS/HDG nav. / bridge	SPD nav / bridge (ground / water)	NAVIGATION	SEISMIC SYSTEM
4	2025	85OCT13				
	2030		38.1 / 35	4.6 / 5.0	42° 41.80' 67° 23.30'	file 1654
	2040					file 1714
	2040					file 1715
	2100		31.8 / 35	4.9 / 5.3	42° 43.84 67° 21.42	file 1827
	2180		33 / 035	4.6 / 5.4	42° 45.74 67° 19.79	sp. 2000
	2200		36.9 / 035	4.2 / 5.4	42° 47.63 67° 18.04	sp 2170.
	2230		38.8 / 35.0	4.3 / 5.2	42° 49.26 67° 16.41	file 2316
	2232					file 2341
	2300		36.6 / 35	4.4 / 5.5	42° 51.04 67° 14.74	file 2476
	2315					file 2554 End reel 35
	2315					start reel 36 at 2555
	2330		33.2 / 035	4.3 / 5.3	42° 52.68 67° 13.16	file 2634
	2352					file 2751
	0000		46.4 / 035	4.3 / 5.2	42° 54.39 67° 11.38	file 2794
	0030		29.5	4.5 / 5.0	42° 56.25 67° 09.57	file# 2958
	0048					
	0100		36.9	4.1 / 4.8	42° 58.07 67° 08.02	file # 3118
	0130		36.4	4.1 / 4.6	42° 59.81 67° 06.29	file # 3276
	0151					file 3388
	0200		49.1	3.6 / 4.3	43° 01.37 67° 04.29	file 3431
	0208					
	0223					
	0225					
	0230		111.2	6.4 / 6.4	43° 01.81 67° 01.54	
EOL4						
SOL5	0236		132.3	5.2	43° 01.52 67° 00.93	file # 1
	0256					120

AREA Gulf of Maine

TIME ZONE Z

~~SWP~~ Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						Tail buoy appears to be lined up right right behind ship.
190m					54693	
						~~roll 2~~ end roll 33
						start roll 34
227m					54725	
205					54697	(Lost starter on starboard compressor during afternoon)
210					54689	
207m					54765	
						O'Brien adjusted gain to get
222m					54797	1st break at t=0
						event marker left on — muggy since 2245
236m						ITB#2558; gain adjusted
243m					54707	
						Turn out back gain on near
						Trace monitor, out input by 6 db
250m					54732	
255m					54747	
						5° to stbd course change
239m					54804	
207m					54756	
						START TURN
225m					54709	
						C/A another 10° stbd steamer
						sinking - increase speed ≈ 1kt.
						c/adj another 10°
						c/adj another 10°
195m					54806	Gun has been firing 1600 psi
						- bringing it up to 1800 psi
180m	SOL 5					slow down a bit - at max
						cycle time for DFS V
						ch 15 acting up a bit
						c/adj 5° stbd?

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
5	0300	851014	157.8	5.1/5.0	42°59.99 66°59.41	file 14
	0330		143.1	4.4/5.2	42°57.90 66°58.21	file 313
	0400		144	3.5/4.8	42 56.15 66 56.53	file 470
	0430		139.8/146	6.4/5.2	42 54.45 66 55.14	file 671 shot number 671 (@0440Z)
	0506		144.8/146	5.4/4.8	42 52.68 66 53.37	file 781
	0530		152.5/146	5.5/5.0	42 50.55 66 51.78	file 959
	0600		142.6/146	6.2/5.8	42° 48.17 66°49.68	file 1165
	0630		140.2/146	6.3/3.9	42 45.75 66 47.32	file 1377
	0700		141.2/146	6.3/4.9	42 43.31 66 45.05	file 1593
	0730		145.4/146	5.7/4.7	42 40.86 66 42.82	file 1808
	0742					
						file 1832 = Nav. Sp. 1834 off by two
	0758		144.8/146	4.9/5.3	42° 38.91 66° 40.89	file 1931 = Sp 1933
	0800					
	0815					
	0838					
	~~0845~~	0900				
	0915					
	0930					
	0945					
	1000		224.4/207	4.5/6.1	42° 32.50 66° 48.68	
	1015				42° 31.14 66° 50.43	
	1030					
	1055					
	~~1100~~					
	1100					
	1350					

AREA GULF OF MAINE

TIME ZONE Zulu (local + 04)

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
183m					54741	
204m					54790	
185m					54834	417Z adjusting streamer depth binds 2+3 around 20 meters deep
185m					54844	bedrock? @ 0445Z on 3.5 khz poss. paleozoic 160 km
187m					54626	batteries out on tail buoy –
200m					55019	will pull streamer in daylight to replace
210m					54602	
190m					54623	following current causing increase in over ground speed
155m					54598	
170m					54606	0734 - no shots computer hung up
						back to shooting
170m					54461	EOL 5
						~~[illegible]~~!
						new watch Ann Dave L Dave S
172m					54454	
187m					54465	
204m					54516	
216m					54446	Sall watch on fantail to secure gear
227m					54442	return 0912
236m					54475	proceeding to new line
244m					54465	
246m					54461	
255m					54447	
258m					54446	
						Decision to pull streamer for
						battery fix; coming into seas
304m					—	Magnetometer off, 3.5 off
						Streamer aboard - no apparent
						leakage in the boots - will check
						on way out - replace batteries
						in tail buoy.

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST K. Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
6	1651z					24-channel & 3.5kHz
	1656z	85/10/14				~~Start SP #1~~
	1659z					Start SP # 1
	0715					
	1730		324.3/326	3.4/5.0	42° 30.47 66°58.19	
	1800		322/326	3.3/5.3	42° 31.83 66 59.42	
	1830		315.6/326	3.4/5.1	42° 33.21 67° 00.87	file # 378
	1900		323.3/326	4.3/5.1	42° 34.60 67° 02.33	file 508
	1930		329.7/326	3.6/5.2	42 36.08 67 3.58	
	2000		327/326	3.4/5.6	42 37.55 67 4.88	
	2030		327/326.0	3.7/5.7	42° 39.13 67° 06.27	
	2048					
	2100		323.0/326.0	4.7/5.7	42° 40.61 67° 7.55	
	2130		322.0/326.0	4.9/5.2	42° 42.4 67° 9.17	
	2141					
	2142					
	2200		323.8/326.0	4.7/5.6	42° 44.17 67° 10.88	
	2230		324.5/326.0	4.3/5.3	42° 45.89 67° 12.63	
	2300		324.3/326.0	3.5/5.2	42° 47.60 67° 14.41	
	2330		325.8/326.0	4.3/5.6	42° 49.37 67° 15.76	
	2349					

AREA Gulf of Maine
TIME ZONE +4

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
			44		working	streamer and auguns
						deployed. Intermittents
						on channel 7 & 15 checked,
						oil added and batteries
						replaced properly in
						tail buoy.
						first 3 shots were
						missed on tape
						1 - 540 cu.in only
						firing at start of
						line - working on
						second 540 gun
334m						Channel 7 is off line
325m					54594	channel 1 leakage 20K
317m					54633	Port gun slowly building pressure -
310m					54649	on line shortly - ON line 1800z
						Tail buoy 23° to port
						1st 132 shot time break is off
304m					54617	tis foggy out there - but fairly
300m					54594	calm (10kts - large swells)
294m					54573	
280m					54585	
272					54604	
270					54611	at 1040 SP
230m					54625	at 1200 SP
						end of tape #46
						start of tape #47, 2261 file #
230m					54684	at 1360 SP
230m					54721	at 1520 SP
215m					54658	at 1680 SP
208m					54760	at 1830 sp (Crossing Line 4)
						Strong magnetic high - Juvenile dike (~55100) (Shelborne dike of [illegible])

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD Jd 288	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
6	0000	85-10-15	320.7/326.8	4.8/5.5	42° 57.21 67° 17.20	file 1986
	0030		316/326	4.8/5.4	42 53.06 67 19.09	file 2160
	0100Z		327.4/326	5.3/5.4	42 55.07 67 20.9	file 2343
	0130Z		325.6/326	4.9/5.0	42 57.22 67 22.84	file 2529
	0200Z		323/326	5.3/5.5	42 59.35 67 24.76	file 2716
	0230Z		321/326	5/5.0	43 01.34 67 26.66	file 2896
	0300Z		320.6/326	5.0/5.2	43 03.21 67 28.47	file 3068
	0330Z		323.2/326	4.8/5.0	43 04.98 67 30.14	file 3236
	0400Z		321.8/326	4.0/5.1	43 06.78 67 31.88	file 3394
	0430Z		320.7/326	5.1/4.9	43 08.52 67 33.19	
	0500Z		325.5/326	3.9/4.9	43 10.11 67 34.56	file 3680
	0530Z		321.6/326	4.2/5.1	43 11.66 67 36.01	file 3817
	0600Z		323.4/326	3.7/5.1	43 13.20 67 37.50	file
	0630Z		332.1/326	3.1/5.1	43 14.64 67 38.86	file 4086
	0700Z		324.2/326	3.5/5.1	43 16.13 67 40.14	file 4227
	0730Z		322.4/326	4.2/5.1	43 17.67 67 41.64	file 4360
	0800Z		325.1/326	4.7/5.0	43 19.47 67 43.27	file 4516
	0810					
	0830Z		343.8/	4.3/	43° 21.36 67° 44.20	4681
	0900		324.4/326.0	4.3/5.1	43° 23.38 67° 45.14	4836
	0930		318.3/326	4.7/4.9	43° 25.26 67° 46.93	file 4958
	955					
	1000		320.4/326	5.1/5.0	43 27.96 67 48.83	file 5120
	1030		324.1/326	4.6/5.1	43 28.98 67° 50.93	file 5346
	1032					
	~~1045~~					
	1050					
	1100		320.6/326	4.9/5.2	43 30.78 67° 52.84	file 5518
	1127					
	1130		319.5/326	4.9/5.1	43° 32.76' 67 55.06	file 5658
	1200		323.0/326	5.2/5.1	43° 34.57 67 57.07	

AREA Gulf of Maine

TIME ZONE Zulu

SWP depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
205					54725	Their 1990 SP
240 m					54835	gun @ 1300 psi
240 m					54755	2343 Sp
225 m					54824	channel 9 out @ ~ 0115
230 m					54786	
210 m					550308	0236 change tape EOT 50
205 m					55097	BOT 51
210					55180	— 3250 Sp check
198 m					55110	EOT 51 0351 @ 3351 Sp BOT 52 @ 3352
180 m			52		55080	Watch Change Kim, John, Sarah
200 m					55151	
195 m			53		55026	
210 m					55039	
225 m					55054	*4086-4100 check time break
240 m			54		55019	
245 m					55028	
256 m					55141	
						course change to avoid fishing gear
270 m					55321	(TV down)
267 m					55143	Their SP 4830 basin fill on 3.5 record
243					55051	hummocky bedrock topography
						Their SP 5000
248 m					55136	Guns firing at 1500 psi (not 1250
						Their 5120 SP
265 m					55023	
						~8m Young fault scarp (?) on 3.5 record
						large scarp ~70m [illegible]
243 m					55052	their SP 5520
						possible young fault scarp ~15m
243 m					55127	their 5700 SP
230 m					55122	their 5880 SP

SHIP/CRUISE NO./LEG GYRE-G-11-85

CHIEF SCIENTIST Kilgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
6	1220	851015				
	~~1230~~		~~326 5.0~~			
	1230		327/326	5.3/5.0	43 36.67 67 59.06	file 6026
	1238					SP 6119
	1300		330/326	4.6/4.6	43 38.64 68 0.67	SP 6242
	~~1301~~				~~43 39.46 68~~	
	1330		320/326	5.3/4.7	43 40.76 68 2.67	file 6429
	1400		319/326	5.0/5.0	43 42.61 68 4.83	file 6610
	1408					
	1430		329/326	4.9/4.9	43 44.56 68 6.82	file 6793
	1435					file 6821 = SP 6821
	~~1500~~		328/326	4.9/5.0	43 46.69 68 8.41	file 6972
	1530		334/326	4.3/4.8	43 48.70 68 9.95	file 7140
	1600		330/326	4.4/5.0	43 50.65 68 11.61	file 7311
	1630		330.6/326	4.4/4.9	43 52.54 68 13.39	file 7477
	1700		325.6/326	4.2/5.1	43 54.30 68 15.12	file 7637
	1730		324/326	3.9/5.0	43 55.97 68 16.69	file 7789
	1744		~~326~~	~~4.9~~		
	1745					file 7863
	1808		325.9/326	4.5/4.9	43 57.66 68 18.23	file 7939 EGT 62 BST 63
	1830		322.1/326	4.7/5.1	43 59.38 68 19.70	file 8088
	1845					~~start for~~
	1900		298.4/326	3.8/4.4	44 0.87 68 21.49	
	~~1915~~/1930		259.9/326	3.9/3.2	44 1.16 68 23.49	
	1956		/326	/4.8		file 8490

AREA Gulf of Maine

TIME ZONE Zulu (local +04)

DEP ~~SWP~~	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
					~~17~~	Adjusting birds depths
						Calibrating Maggie.
210m					55213	
						Drop speed 1/2 kt
						Seas FAC, overcast
						Tried calibrating tail buoy & ADF - no
						luck - reads ~ 15° to port when
						tail buoy is dead astern.
198m					55402	
~~196m~~						
178m					55230	
170m					55192	We have drifted to the left
						of the line on Nav - nav group
						tied up with crash of grav system
						c/a 5° starbd.
170m					55335	
172m					55492	
180m			61		55379	UB Tape 60 got slightly crinkled on
						rewind - tape drive 1
190m					55460	
195m					55472	
158m					55310	
110m					55464	
						change paper on Magnetometer
					55634	
110m					~~55580~~	55580
90m					~~55580~~	55857 tail buoy 15° port
						start turn line 6 till ~~end~~ end of turn
80m					55689	getting alot of background noise
70m					55755	
					55837	last shot of line 6
						EOL 6

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST KIM KLITGORD

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	~~2003~~			~~5.1~~		
7	2003	850CT15	218.4/?	4.7/5.1	44°0.31 68°26.17	BOL 7
						(540 in³ x 2) AIRGUN
	2030	85 OCT 15	217.5	4.4/5.2	43°58.66 68°27.73	file # 151
	2045					file # 238
	2100		219.5	4.6/5.3	43°56.83 68°29.63	file # 323
	2130		213.6	4.3/5.0	43°55.16 68°31.53	file # 482
	2145					
	~~2200~~		216.3/217	4.1/5.0	43°53.39 68°33.23	# 640
	2215					# 720
	~~2230~~		~~200.9/217~~	~~4.5/5.3~~		~~# 797~~
	2225					
	2230		200.9/217	4.5/5.3	43°51.70 68°35.10	file # 797
	2245					# 880
	2300		151.6/165	4.2/5.2	43 49.63 68 34.82	
	2309					
	2315					# 1039
	2330		160.6/165	4.4/5.4	43°47.64' 68°33.70'	# 1121
	2345					# 1195
	0000		158/165	4.4/5.1	43°45.51 68°32.52	# 1283
	0014					
	0030		151.9/165	4.1/4.7	43 43.69 / 68 31.32	File 1437
	0100		~~145~~/165	3.8/4.6	43 41.8 / 68 29.7	
	0115					
	0117					
	0130		143./165	3.2/4.5	43 40.4 68 27.2	~~file 1475~~
	0145					
	0200		160.7/165	4.0/4.8	43 38.8 68 26.9	file 1868

AREA GULF OF MAINE

TIME ZONE +4 Z

~~SWP~~ Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
70m					55713	Still turning after line 6
						file 9 = shot 10
83m					55780	
70m					55846	
75m					55960	
90m					55970	
85m					55965	
85m					55643	
95m					55863	
~90m					55762	
~~97m~~					~~55764~~	
						Start turn 216° → 150°
97m					55764	see observers report for details
104m					55795	of shots missed due to changing
						Shot instant display, timing etc by
85m					55938	Tommy and Twig 2200-2245
						Belt change on 3.5
117m					55810	
135m					55790	* ITB error problem seems
160m					55616	to have been cleared up now
143m					55586	that no more keyboard annotation
						are being sent to 3.5 kHz
						change 3.5 belt too much
						cavitation under transducer?
3.5	still down					
?					55364	No 3.5 signal, down + out —
						problem is open? keep running
		3.5 but down				Rest delay on 1 540 - to 10 ms from
					55270	EOT 68
					55320	up 50 8
	working on 3.5				55258	

SHIP/CRUISE NO./LEG Tyne 85-G-11

CHIEF SCIENTIST KDK

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
7	0230Z	289/10.16.85	146 / 165	4.3 / 4.8	43 37.2 68 25.6	
	0234					back on, 238 = 1994 @ 0234
	0300Z		142 / 165	4.5 / 5.0	43 35.4 68 24.0	
	0315Z					
	0330		146.2 / 165	4.4 / 5.0	43 33.8 68 22.4	Sp 2353 / File 2304
	0350					
	0400		144 / 165	4.5 / 4.6	43 31.9 68 20.5	
	0407					
	0422					→ off line due to traffic →
	0430		174.6 / 145	4.6 / 5.0	43°29.94 . 68° 19.11	file 2609
	0500		158.1 / 145	5.2 / 5.1	43°27.52 68° 18.80	file 2791
	0504			5.0 / 5.4		file 2824
	0530		/ 145	/ 5.0		file 2857 Tape is still running we're getting file #
	0540					
	0540		/ 145	/ 4.8		
	0549				43 24.50 68 15.43	
	0600		/ 145	/ 4.9		
	1200					
	1300					
	1415					streamer aboard - steam to first OBS deployment
	1509:53				43 39.00 68 29.00	OBS #1 (A-2) OBS #1
	1615		231 / 230	9.4 / 9.3	43 32.74 68 39.60	
	1623				43 31.99 68 40.52	OBS #2 deployed (C-4) OBS #2
	1635		234.1 / 230.0	9.6 / 9.3	43 31.38 68 41.74	
	1645		234.9 / 240	9.4 / 9.3	43 30.37 68 43.64	
	11					

AREA Gulf of Maine
TIME ZONE ~~Z+4~~ (local = Zulu - 4 hrs.)

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						3.5 back up intermittently
~170 m					55308 high	lost power to seismic -
						problem w/ compressors - ineg
170 m					55243	
200					54980	
						~ Fundy fault
175 m					56210	~~3305~~ 2385 EOT 70
						BOT 71
						Watch Change Kim, John, Sarah
						3.5 is down at start of watch
—			71		55366	Ship approaching 0430 - lower streamer
						passing on port
						NO Port gun (off and on)
						→ we're off line to avoid traffic
			EOT — 0503z			ship on stern 1 3/4 miles off of line
			72 BOT			Oscilliscope + Near Trace NOT recording
					55168	" "
						Tape is running - file # advancing - but NOT getting the data block
						slowed down ½ knot
						circle to 0504 location for DFSV repairs
						DFS V still out - prepare to
						haul streamer - do OBS.
						Tommy, Twig working on DFS
.250 s =						
~~.275~~ s = ~~201~~ m		using 3.5 Raytheon line Scan Recorder				over the side
.200 s =		0.5 sweep 200 lines/inch				problem with T=0 position on 3.5 khz
~~.225~~ s ≈ ~~[illegible]~~ m		20 markers/scan				in nav. room, need to determine position
						difference is .025 sec more than
						actual depth for T=0 at left edge
						→ based on multiple time
						Looks like the depths should

DFS V destroyed its gain electronics just after tape change from deck 2 to deck 1 at 0503z with last recorded shot at 0505z. Line #7 Ends at 0503z with tape # 71.

be less. Subsequent depths will be the lower estimate. Those on this tape are corrected.

SHIP/CRUISE NO./LEG G4 RE-85-G-11

CHIEF SCIENTIST klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION °N ' °W '	SEISMIC SYSTEM
	1732	J D 289	233.2/230.0	8.7/9.3	43° 26.06 68°51.09	
	1740	85 OCT 16			43 25.34 68°52.45	
	1745/30				43 25.33 68 52.45	KB deployed OBS #4
	1745				43 25.33 68 52.44	
	1800		225.8/230.0	8.9/9.4	43 24.35 68 53.67	
	1830		226.6/230.0	9.2/9.6	43 21.26 68 58.10	
	1900		235.7/230.0	9.1/9.4	43 18.35 [illegible]69 2.70	
	1902					OBS #5
	1907 40		187.7/230.0	0.5/1.0	43 17.97 69 3.46	C6(A1) deployed
	1930		225.1/230.0	9.3/9.4	43 16.28 69 6.10	
	2000		228.5/230.0	9.0/9.4	43 13.34 69 10.72	
	2015		232.5/	9.3/	43 11.87 69 12.14	
	2030		66.3/230	3.5/4.0	43°11.08 69°84.59	
	2045		50.8/50	3.9/4.5	43°13.51 69° 13.55	
	2100		56.7/50	3.7/3.8	43° 11.57 69 12.75	
	2103					
	2104					
	~~2111~~					
0883	2111		41.5/25	3.6/4.3	43° 12.46 69° 12.18	START OBS Line #3
	2115		45.5/25	3.7/4.5	43° 12.56 69° 11.95	2 x 2000 cu in
	2128					air guns-
	2130		43.5/25.0	3.6/4.7	43 13.25 69° 11.06	and 4 OBS's
	2148		43./25	3.9/4.4	43°13.93'69° 10.16	
	2159					
	2200		43.1/25	3.7/4.6	43 14.63 69 9.24	
	2215					
	2230		37.6	3.9/4.6	43 15.84 69 7.18	
	2245		550	3.9/4.7		
	2300		47.8/51	3.7/4.7	43°17.06 69.5.18'	
	2315		/51	/4.7		
	2330		51.8/51	3.9/4.6	43 18.21 69° 3.14	

AREA Gulf of Maine

TIME ZONE Zulu = local + 04

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						slow to 2 knots
105m						OBS-3 deployed
						shill at dead stop
122m						
140m						
175m						
						slow to 5 knots
165m						OBS #4 down
~~[illegible]~~						
177m						
190m						
203m						past nominal start of line to south
196m						Guns not yet deployed
188m						" " "
						1st testshot
						1st line
						test shots 3-4 seconds apart
187m						start of OBS line 3, shot 1
185m						Massie beams deployed
						Massie deployed 500' cable out
177m						(seas 2-5', wind 10-15mph NNW)
172						Magnetometer running
168m					55480	
~~165m~~						calm seas!
2215 163m					55355	port gun 21-23 ms
						slow. Takes some fiddling
						to keep 17 aligned.
156m					55358	
134m					55479	
160m					55317	
157m					55238	
165					65237	at OBS #4

SHIP/CRUISE NO./LEG GYRE - 85 - G - 11

CHIEF SCIENTIST Kim KLITGORD

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
OBS 3	2345	85OCT16				
	0000	85OCT17	45.7 / 051	3.4 / 4.7	43° 19.37 69 1.37	
	0015		/	/		
	0030		043.1 / 051	3.1 / 4.5	43 20.52 68 59.68	
	0045					
	0100		46.6 / 051	3.0 / 4.3	43 21.61 68 58.15	
	0115					
	0130		49.5 / 51	3.0 / 4.2	43 22.66 68 52.6	
	0145					
	0200		38.2 / 51	3.1 / 5.2	43 23.65 68 54.33	
	0215					
	0230		52 / 51	3.8 / 4.6	43 25.04 68 52.85	
	0245					
	0300		45.3 / 51	3.4 / 4.5	43 26.18 68 50.94	
	0315		/ 51	/ 4.7		
	0316					
	0330		57.4 / 51	3.8 / 4.7	43 27.27 68 49.11	
	0345					
	0400		62.3 / 51	3.6 / 4.5	43 28.34 68 47.26	
	0430		56.7 / 52	3.4 / 4.8	43 29.26 68 45.33	
	0445		054 / 051	3.9 / 4.7		
	0500		054 / 051	3.9 / 4.7	43 30.29 68 43.42	
	0515					
	0530		050.6 / 051	3.3 / 4.7	43° 31.46 68° 41.57	
	0545		46.5 / 52	3.1 / 5.0	43° 31.93 68° 40.80	
	0549				43° 32.07 68° 40.58	Crossed OBS #2
	0600		45.0 / 051	3.3 / 5.0	43° 32.47 68° 39.93	
	0615					
	0630		54.3 / 051	4.0 / 5.5	43° 33.62 68° 38.00	
	0645					
	0700		56.2 / 051	4.4 / 5.4	43° 34.93 68° 35.83	
	0715					

AREA Gulf of Maine

TIME ZONE Zulu (local = Z - 4hrs.)

SWP (m)	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
157m					55214	
148m					55262	
140						
138					55329	
128						flat H bottom over hill, basement barely discern
130					55273	It v. thin, hill over neg basement
124					55397	
107					55284	
105					55313	
122m					55482	
128					55514	
105m					55469	
107					55632	
93					55441	
91					55255	
						Satellite clock by scopes down — does not affect shooting.
101					55183	change analog shot instant tape
122					55757	
125					55200	
134					55209	
143					55241	
147					55230	
148					55250	
148					55304	
150m					55343	
148m						OBS #2
148m					55359	
150m					55368	
117m					55348	
125m					55391	
135m					55399	
125m					55774	Big Magnetic High

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
OBS 3	0730	85 Oct. 17	53.2/051	4.0/5.1	43° 36.21 68° 33.61	
	0745					
	← 0750					
	← 0800		53/051	4.2/5.3	43° 37.43 68° 31.36	
	0815					
	0830		49.9/051	4.2/5.2	43° 38.86 68° 29.27	
	0845					
	0900		55.9/051	4.8/5.2	43° 40.31 68° 27.04	
	0915					* See OBS log - Marine Report
	0930		56.4/051	4.7/5.4	43° 41.68 68° 24.53	* for notes on shot instant
	0945					* recorders
	1000		56.3/051	4.3/5.4	43° 42.9 68° 21.94	*
	1015				43.62 20.71	
	1030		47.3/051	4.5/5.4	43° 44.31 68° 19.46	
	1045					
	1100		43.9/051	4.5/5.6	43° 45.88 68° 17.14	
	1115					
	1130		52.5/051	4.0/4.7	43° 47.26 68° 14.53	
	1145					
	1200		51.7/051	3.9/4.9	43° 48.54 68° 12.85	
	1215					
	1230		53.3/051	4.3/4.6	43 49.5 68 09.99...	☺
	1313					
	1520					
	1524				43 38.93 N 68° 28.86 W	OBS A-2 recovery
	1532					
	1655					
					43° 31.96 N 68° 40.53 W	OBS C-4 recovery

AREA Gulf of Maine

TIME ZONE Zulu

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
130m					55528	
126m					557~~44~~	Basement High
166m					55335	large Magnetic Anomaly (whooping) Kim
172m					55326	
181m					55342	Just NE of OBS #1
174m					55361	~~[illegible]~~
191m					55302	Just NE of crossing Reflection line?
180m					55276	ocean appears very calm
195m					55256	
180m					55241	irregular bottom topography last is min
197m					55288	"
181m					55343	possible fault in basement on depth chart
164m					55386	Complex bottom topography/geology
~~[illegible]~~						seas calm; very few white caps, wind <10 mph
207m					55 386	very irregular bottom topography
180m					55369	
177m					55383	
188m					55 454	
179m					55421	
~~163m~~	182m				55456	
182m					55470	
175					55490	EOL @ 1229
						Guns secured - steaming to
						pick up OBS. 3.5 shut off, too
						at OBS #1 pick up
						OBS A-2 released
						OBS A-2 aboard
						at OBS #2 pick up
						~300m to starboard

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST K. Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1700Z	851017				
	1830Z				43°25.28'N 68°52.37'W	
	1900Z					steaming to OBS #4
	1957Z					over OBS #4
	2235					
	0020	851018			43 6.01 69 2.30	
	0125				43 02.48 68 53.45	OBS #1 OVER THE SIDE (OBS A-2)
	0231					
	0240				43 08.99 68 41.40	OBS #2 OVER THE SIDE (OBS A-8)
	0356				43 15.46 68 29.44	OBS #3 OVER THE SIDE (OBS C-4)
	0410Z					START OBS LINE #4
OBS4	0538		224.8/233.0	4.0/4.7	43 20.20 68 20.58 16.16	2 × 2000 cu.in guns
	0545		238.1/233.0	4.8/5.1	43 19.89 68 21.16	3 OBS's
	0600		229.7/	4.6/	43 19.24 68 21.47	
	0615		234.6/233.0	4.6/5.0	43 18.58 68 23.76	
	0630		233.3/233.0	4.9/5.1	43 17.87 68 25.07	

AREA Gulf of Maine

TIME ZONE +4 Z

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						heading for OBS #3
						OBS #2 stored and being lifted on board (OBS-A8)
						OBS-1- Full tape (A-2)
						OBS-2- full tape (C-4)
						OBS-3- Dudd-28 shots (A-8)
						OBS-4- did not return RTP (A-1) (C-6)
						OBS 4 doesn't respond- searching the horizon for lights. Calm flat- clear - excellent visibility
						en route to line OBS 4
152m						deploy OBS
						approach second drop site
174m						deploy OBS.
						flat "sedely" bottom
185m						looks rocky"
						Magnetometer deployed
						underway to start of
160						shot line OBS 4
155					55050	
162					55065	
162					55028	
167					55035	

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
OBS 4	0645		230.6 / 233.0	4.6 / 5.1	43° 17.20'N 68° 26.22'W	
	0700		231.5 / 233.0	4.8 / 5.1	43° 16.52'N 68° 27.47'W	
	0723					Passed OBS C4
	0730		233.0 / 233	4.9 / 5.0	43° 15.05 68° 29.97	
	0745		/ 233	/ 5.0		
	0800		234.4 / 233	4.4 / 4.9	43° 13.67 68° 32.63	
	0815					
	0830		235.1 / 233	4.9 / 5.0	43° 12.24 68° 35.33	
	0845		235.7 / 233	4.7 / 4.9	43° 11.50 68° 36.61	
	0900		231 / 233	4.6 / 5.0	43° 10.81 68° 37.89	
	0915					
	0930		231.7 / 233	/ 5.0	43° 9.5 68° 40.37	
	0945					
	1000		240 / 233	4.3 / 5.0	43° 8.22 68° 42.81	
	1007					
	[redacted]					
	1015					
	1030		232.4 / 233	4.3 / 4.8	43° 6.99 68° 45.24	
	1046					
	1100		234.4 / 233	4.0 / 4.8	43° 5.61 68° 47.48	
	1115					
	1130		236.7 / 233	4.4 / 4.8	43° 4.44 68° 49.86	
	1145					
	1200		234.6 / 233	4.4 / 4.8	43 3.2 68 52.2	
	1215					
	1230		232.4 / 233	4.3 / 4.8	43 1.9 68 54.6	
	1245		/ 233	/ 4.7		
	1300		235 / 233	4.5 / 4.7	43 0.65 68 56.94	
	1315			/ 4.7		
	1330		/ 233	/ 4.6	42 59.16 68 59.03	
	1337			c/s - 7 kts		
	1340			c/s - 4.5 kts		

AREA Gulf of Maine

TIME ZONE [redacted] +4 Zulu, GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
182					55034	
176					55020	
					55	OBS C4
187					55056	
197					54940	
198					54925	Sea state calm, wind <10 mph
184					54944	
180					54956	
178m					54993	
177m					54961	
174m					54944	
167m					54928	On 15 sec deep crustal line
175m					54925	[redacted]
172m					54910	OBS A8 passed between these two obs.
148m						bedrock outcrop on depth ~~recorder~~
~~[illegible]~~						S hallowest depth to this outcrop 148m ~~10 meters of [illegible] relief to sea floor~~
170m					54892	
168m					54932	Sea almost calm; only ripples on water
						Faint suggestion(?) of SE dips in bedrock
167m					54918	partly eroded till bottom; no Holocene cover.
178m					54934	
183m					54935	
185m					54955	
184m					55014	
182m					55100	over OBS 3 mag climbing a approach
175m					55210	Earlier ledge
110m					55294	
131m					55309 @ 12492	
134m					55308	
85m					55258	1323-1327 change paper 3.5 KHZ
105m					55211	v. irregular
						SPEED UP TO AVOID SHIP
						SLOW DOWN - PASSED SHIP

SHIP/CRUISE NO./LEG KLITGORD

CHIEF SCIENTIST GYRE-85-G-11

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
OBS 4	1345	85 10 18	234	3.8 / 4.7	42 58.39 69 0.47	2 × 2000 cuin
	1400		231	/4.8	42 57.76 69 1.71	airguns;
	1415					
	1421					some delay problems
						on port gun
	1430		238	4.6 / 4.7	42 56.57 69 4.14	
	1445		233	4.8		
	1500		230.1 / 233	4.0 / 4.6	42 55.34 69 6.6	
	1515					
	1530		226.1	4.8 / 4.6	42°53.94 69 08.68	
	1545					
	1600		232.0	4.1 / 4.6	42°52.66 69° 10.78	
	1615					
	1630				42° 51.62 69° 12.82'	
	1700				42° 51.23 69° 13.94	
	1710					airguns onboard
	1916					OBS #1 on surface
						~ 50m on starboard stern
	1925		243	c/o	43° 2.54 69° 53.65	OBS #1 onboard
~	2045					
	2230					
		LINE OBS-5				
	2356	85 10 18			43° 06.48 68° 39.02	OBS A-2 deployed
						OBS #1
	0012	85 10 19				

1000 1645

AREA GULF OF MAINE

TIME ZONE ZULU +04

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
127m					55261 @	1348Z
177m					55230	
181m					55174	
						3.5 kHz down to inspect pens
						≈ 25 sec lost
196m					55135	
186m					55093	
168m					55151	
142m					55259	seas up to 3'; 15-20 mph winds
160m					55151	
194m					55094	
147m					55075	
140m						
						End of OBS LINE #4
						slowing ship to pull in
						airguns & Magnetometer
						depart to recover
						OBS # 1
						proceeding to OBS #2 (A2)
						OBS # 2 hooked (A8)
						OBS # 3 hooked (C4)
176m						OVER THE SIDE
						underway to next site

SHIP/CRUISE NO./LEG G4RE-85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	0125	851019				
	0128				43° 17.08' 68° 43.97'	OBS # A-8 OVER
	0137					
	0238					
	0249					
	0252				43° 27.11' 68° 48.55'	OBS # C-4 OVER
	0257					
	0306					
	0425					
	0436		198.5	3.9/4.9	43° 33.24 68° 52.64	
	0445					
Start OBS #5	0500		150.1/160.0	4.2/5.2	43 31.85 68 51.64	Start OBS LINE #5
	0515		154.5/160.0	4.0/4.3	43 31.20 68 50.57	
	0530		161.1/160.0	3.3/4.5	4330.44 68 50.06	
	0545		157/160.0	3.8/4.6	4329.56 68 49.72	
	0600		159.1/160.0	3.9/4.8	43 28.70 68 49.31	
	0615		158.0	3.8/4.2	43° 27.74 68° 48.92	
	0627		161.6	3.6/3.8	43° 27.0 68° 48.5	
	0630		162.9	3.6/4.6	43° 26.91 68° 48.48	
	0645		160	4.4/4.6		
	0700		157.6	4.5/4.4	43° 24.98 68° 47.47	
	0715		162.2/	4.3/3.8	43 23.98 68 47.23	
	0730		158.5/160.0	4.3/4.3	4322.98 68 46.60	
	0745		159.7/160.0	4.5/4.4	4321.96 68 46.16	
	0800		154.8/160.0	4.6/4.1	43 20.90 68 45.69	

AREA Gulf of Maine

TIME ZONE Zulu + 04

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						slowing to deploy OBS
146m						OBS deployed.
						underway to next OBS site
						2 miles to drop off
						slow to drop
108m						OBS dropped
						Holding station for Oscar to
						work on solenoids of guns -
						too wet in the rough
						seas on the back deck.
						underway
						guns in the water -
						Pick up speed to
130m						5 kts & head onto line
126 ←	record is very faint					5 —
						shooting but not recording
						records start at 0500z
128					55372	Seas ~5-7'
130					55368	3.5 is not recording well
112					55332	LOTS of Noise
115					55291	
124	5				55538	
103m	(hard to read)				554XX	
~~[illegible]~~						going over OBS #3
116m					551XX	
117m					553XX	
118m					554XX	
109m					553XX	
85m					55150	
105m						
105m					55075	

SHIP/CRUISE NO./LEG GYRE 85-G-11

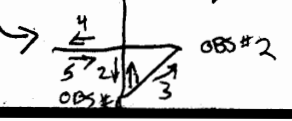
CHIEF SCIENTIST Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
OBS#5	0815					
	0830		159.9/160	4.3/4.7	43°18.79 68° 44.67	
	0845					
	0900		163.2/161	4.3/5.0	43° 16.73 68° 43.81	
	0915					
	0930		161.1/160	4.1/5.1	43° 14.56 68 42.87	
	0945					
	1000		160.9/160.1	4.6/4.8	43° 12.41 68° 41.87	
	1015					
	1030		158.7/160.0	4.5/4.9	43 10.29 68° 40.86	
	1032					
	1045					
	1100		160.2/161	4.3/4.9	43 8.14 68 39.74	
	1133					
	1150					
	1200					
	1203					OBS A-2 recovered
	1330					OBS A-8 recovered
	1335					OBS hooked - C
	1447					
	1457					OBS hooked - C4
	1506					
	1530					
	1600					
	1615					OBS LINE #6
	1624				43° 37.50 68°53.01	OBS deployed (A8)
	1630		87.8	0.9/0.9	43° 37.44 68° 52.87	#1
	1645					

AREA Gulf of Maine

TIME ZONE +4 z

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
~120m	(hard to read 3.5)				55402	
~127m	" "				55148	red pen on Mosaic very erratic
135					55587	these #'s best guesses using green bar
155					55581	Just S of OBS A8
~141m					55329	many magnetic peaks this region
~167m					55155	
166m					55071	good depth measurement
163m					55011	
170m					54975	
164m					n.r.	
					55535	sea state - 3-4' from W seas rollers
165m					54915	
167m					54941	EOL OBS #5
						En 2073 m to next OBS
						Air guns stowed, Mosquito stowed
						Off to get OBS A-2
						At OBS site
						OBS in sight - being recovered
						OBS A-2 hooked
						en route to recover OBS A3
						Slow to OBS site
						underway to next drop site
						8.5 KHz turned on for stream to
120m	120m					deploy next OBS
100m						
113m						
169m						Cruising to start of gravity box
117m						lines (Jim M.)



SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1700	85 Oct 19	269.4	5.0/5.4	43° 37.46 68° 55.54	
	1715		87.2/270	6.4/5.8	43 37.58 68° 56.73	
	1710:25		272.2	5.0/	43 37.48 68 56.74	1st 180° turn start of 2nd leg
	1730		91.6/270	5.8/5.6	43 37.55 68 54.89	
	1743:30				43 37.54 68 53.50	change course 135°
	1745:00		71.9/270	3.7/4.2	43 37.53 68 53.26	
	1800		326.6/270	4.4/5.4	43 38.47 68 54.15	
	1813:15		319.4/	4.1/4.1	43 39.32 68 54.88	Turn
	1815		218.4/270	3.2/4.7	43 39.33 68 54.99	
	1830		174.1/180	4.9/5.0	43 38.01 68 55.01	
	1845		177.3/4	4.6/4	43 36.80 68 54.95	
	1900		178.0/180	4.8/4.5	43 35.75 68 54.95	
	1859:45				43 35.79 68 54.99	turn
	1915		/180	/5.3		
	1930		2.2	4.5/5.3	43° 37.80 68° 55.03	
	1945		359.3/180	4.6/5.3	43 38.94 68 55.02	
	[illegible]	1946:30				Turn
	2000		180.9	4.8/5.3	43° 38.24 68° 55.13	
	2010					
	2115					
	2124				43 47.973 68 55.694	OBS#2 (A-2) deployed
	2130					
	2145					
	2200					
	2215					
	2230					
	2240				43° 57.5194 68° 58.9004	OBS#3 (C-4) deployed
	2246					
	2256					
	2300					
	2302					
	2315					

AREA Gulf of Maine

TIME ZONE Zulu

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
128m						gravity coordinates: ① 43°37.5 68°53.5
						② 43°37.5 68°56.5
						③ 43°37.5 68°53.5
						④ 43° 39.0 68° 55.0
						⑤ 43° 36.0 68° 55.0
103m						⑥ 43° 39.0 68° 55.0
110m						
110m						
120m						
125m						
125m						
82						
113m						
						Breaking off Gravity Box to head
						for OBS line 6.
53m						
44m						OBS (A3) in water
46m						#2
46m						
48m						
27m						
47m						
39m						putting air guns in water
42m						before heading to N end of OBS #6
						air guns in water
36m						first test shots
						up to speed (5.0) testing guns
85m						Missile deployed 200' out

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START/END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
[illegible]	2320	851019			~43 [illegible] 68 59.10	
	[illegible]					3 OBSs. 2 - 2000 cu.in airgun
OBS6	2330		162.1/170	5.7/5.0	43° 58.[illegible] 68° 58.90	BOL OBS #6
	2345		169.7/170	4.9/5.1	43° 56.85 68° 58.53	Crossed OBS C-4 (2337 Z)
	0000	851020	172.1/170	4.7/4.9	43° 55.65 68° 58.26	U.B. Maggie only ≈ 200'
	0015					out because of shallow
	0030		175.3/170	4.4/5.3	43 53.37 68 58.13	water (usually
	0045			5.1		towed ≈ 600' aft)
	0100		148.0	4.5/5.3	43° 51.13 68° 57.26	
	0115					
	0130		171	4.6/5.2	43 49.06 68 56.25	
	0145					Crossed OBS A-2 (0150 Z)
	0200		[illegible]/173	4.7/5.0	43 46.75 68 55.54	
	0215					
	0230		171	4.8/5.0	43 44.40 68 55.08	
	0245					
	0300		165.2	4.9/	43 42.08 68 54.49	
	0315					
	0330		159.4	4.8/5.2	43° 39.78 68° 53.69	
	0345					
	0400		168.1	4.3/5.2	43° 37.41 68° 53.03	
	0402		168.5	4.4/	43° 37.48 68° 53.00	RAN OVER OBS (A8)
	0415					
	0430		156.4	4.7/5.2	43° 35.47 68° 52.23	
	0445					
	0500		162.9	4.3/5.2	43° 33.40 68° 51.19	
	0515		163.8/	4.2/	43° 32.37 68° 50.79	
	0530		165.1/160	4.5/5.3	43° 31.12 68° 50.33	
	0545		160.2/160	4.5/5.1	43° 30.29 68° 49.97	
	0600		161.0/160	4.3/5.2	43° 29.23 68° 49.50	
	0615		155.8/160.0	4.3/5.2	43° 28.20 68° 49.03	
	0630		166.3/160.0	4.3/5.2	43° 27.17 68° 48.58	
	0645		166.7/160.0	4.3/5.3	43° 26.11 68° 48.16	

AREA Gulf of Maine

TIME ZONE Zulu

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						slow on both engines, [redacted]
						port air gun failed
31m					missie unsettled yet	BOL OBS #6
24m					55 [redacted]	
45m					55279	
45m						Good calm weather
62m					55435	
64m					55243	
15m					55321	3- OBS's
21m					55271	2- 2000 cu.in. guns
41m					55238	
30m					56[redacted]4	
30m					56019	
45m					55568	
[redacted]m					55525	
61m					55375	
48m					55740	
47m					55350	
110m					55592	
112m						
111m					55558	
115m						
83m				0420Z	55389	
115m					55340	
135m					55274	
125m					55343	
139m				0521→	55278	
135					55255	
130					55221	
130					55256	
					55349	
107					55051	
112					55251	

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Kim Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
OBS 6	0700	85 Oct 20	164.1/160	4.4/5.2	43° 25.06 68° 47.75	
	0715					
	~~0730~~					
	0730		162.4	4.8/5.3	43° 22.97 68° 46.85	
	0745			5.3		
	0800		161.4	4.5/5.3	43° 20.78 68° 45.94	END OBS LINE # 6
	~~0830~~					
	0830					
	~~1035~~					AB pickup
	1045					
	1202					
	1213					A2 pickup
	1218					
	1330					
	1335					C4 pickup.
	1340					

AREA Gulf of Maine

TIME ZONE Zulu

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
116m					55266	0709z discovered tape
110m					55227	had ended and made a mess
						Sticky end of tape stuck to here
						& tape had wrapped around many
						times
						0725z New tape loaded and running
90m					55049	
110m					54992	* Fault at 0730z
110m					54995	
						Magnetometer on board
						Airguns on board - underway
						to first OBS
						Debbie
						Stream magnetometer
						up the length
						of Penobscot Bay
						release AB - surfaced right
						next to ship - 105 underway
						slow to OBS pick up.
						OBS A-2 alongside
						Underway to last OBS pickup
						Stop to recover OBS
						OBS alongside - C4
						Start magnetometer into Penobscot

SHIP/CRUISE NO./LEG OYRE-85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1352	851020				
	1400		351.0	9.1	43 59.15 68 59.74	
	1415		359.9	8.9	44 01.37 68 59.94	
	1430		358.1	9.1	44 3.63 69 00.01	
	1445		356.3	9.2	44 5.90 69 0.26	
	1500		354	9.4	44 8.21 69.00.43	
	1515		357	9.2	44 10.49 69 063	
	1530		354	9.3	44 12.80 69 0.87	
	1545		17.8	9.4	44 14.89 69 0.14	
	1600		33.8	8.7	44 16.73 68 58.41	
	[illegible]					
	1610.30		47.1 209.19	9.6	44° 17.84 68° 56.95	
	1615			10.0	44 13,51 68 0,25	
	1645					
	1800Z	85/10/20				Tied up at pier Coast Guard Station Rockland Maine
	[illegible]	85/10/21				Left pier at Rockland
	2000Z					Watch changes: Stewart → Unger Bother → Taylor Dunlap → McClennan Irwin → Dunlap
	2000Z					
	2105				43°13.19 69°0.79	
	2130				44° 16.82 68°58.12	
	2200					
	2159				44° 21.20 68° 55.83	

AREA Gulf of Maine

TIME ZONE Zulu (local +04)

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
					55760	
62m					55680	Run to northern
65m					55340	part of the west limb
105					55236	of Penobscot Bay
73m					55325	to pre survey seismic
57m					55454	line
47m					55650	all looks fine
101					55651	for shooting along deep water
70					55635	channel with caution at
47m					55632	the mouth of the bay headed
45m					55721	for Isleboro pots
58m					55775	EOL
37m						Maggy turned off - pulled up
						3.5 still going
						Reached end of line
						pre survey. Heading
						back to Rockland
						and port stop for 1 day
						Left pier of Rockland
						coast Guard Station
						Steaming to northend of
						Penobscot Bay to
						start line # 8
						Depart down the length
75m						of the bay
43m						
35m						

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	2230	85/10/21			44° 22.29 68° 55.43	2 - 540 cu.in. airguns
	2300				44° 21.69 68° 55.50	1 - 24 ch. streamer
	2315					1.2 km length
	2325					
	2330				44° 22.23 68° 55.39	
	0000	85/10/22			44° 20.62 68° 55.60	
	0030				44° 19.19 68° 56.32	
	0045					
	0055					
	0100				44° 17.73 68° 57.24	
	0119					
SOL 8	0140				not printed out on paper -	2 × 540 in³ SP #1
				but	is on disk -	1200 m / 24 channel
						6 s / 4 ms sample
						OUT - 64 ~~HZ~~

AREA Gulf of Maine

TIME ZONE +4 Z

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						Personel onboard departing Rockland
					1.	K. Klitgord USGS
					2.	A. Trehu USGS
					3	D. Gove USGS
					4	J. Dodd USGS
					5	T. O'Brien USGS
					6	D. Mason USGS
					7	D. Taylor USGS
					8	J. Unger USGS
					9	D. Leeds USGS
					10	G. Miller USGS
					11.	C. Savela USGS
					12	A. Fabres-Cordero - U Texas
					13	J. Brooks - Univ New Hayshire
					14.	S. Dunlap - USGS
					15.	C. McClennen - Colgate Univ.
37m		splendid		weather to		start leg 2!
57m						circling back to WP 1.
25m						on line again at WP 1.
						guns in water, deploying streamer
43m						
31m						
58m						
						change paper at 3.5-
						3.5 back on —
						0119Z c/scale ½ sec on
						3.5 kHz -
42m		like a	mill	pond.		START LINE 8
						PENOBSCOT BAY

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST Klitgord.

LINE START/END	TIME	YYMMDD	CRS/HDG	SPD nav (ground) bridge (water)	NAVIGATION	SEISMIC SYSTEM
LINE 8	0145	851022				
	0148		205.6	3.9	44°15.14 68°58.78	← print out every 10th shot
	0215				44 13.52 68 59.61	file 171
	0200				44 14.41 68 59.23	file 100
	0230		172.6	4.1/4.1	44 12.58 68 59.61	file 242
	0245		179.3	3.9	44 11.64 68 59.59	file 314
	0300		179.3	3.9/3.8	44 10.56 68 59.58	file 388
	0315		180.0	3.9/4.0	44 9.62 68 59.59	file 459
	0330		181	3.6/4.0	44 8.68 68 59.60	file 531
	0345		174	3.7/3.9	44 7.74 68 59.52	file 596
	0400		192	3.7/4.0	44 6.93 68 59.49	file 666
	0430		183.4	3.8/4.2	44 4.91 68 59.57	file 812
	0445		182.1	4.0/4.1	44 3.97 68 59.55	" 885
	0457					" 944
	0500		177.6	4.2/4.0	44 2.89 68 59.52	" 960
	0512				44 1.92 68 59.55	1020
	[illegible]				44 1.38 68 59.56	
	0530				↓ ↓	
	0600				44 1.37 68 59.53	
	0630				43 59.43 68 59.58	
	0640				43 59.16 68 59.63	
	0700				43 58.11 68 58.28	
	0730				43 53.62 68 58.4	
	0810Z					arrived at point south
	0830					of lobster pot field
	0900					start deployment of
						airguns & streamer
	0900		153.2	3.1	43°47.37 68°57.02	

AREA Gulf of Maine

TIME ZONE Zulu (local +04)

Depth ~~SWP~~	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
53-						
~~55~~						
57						
53						
54						
57						
65						lat/lon = 0959
						~~Close approach to waypts~~ @file 944
2254						
						last shot
						before lobster pot field
						pulling in gear
						0640 tail buoy onboard
						full speed to ~~south~~
						side of lobster pot
						field
						started drifting into
						lobster pot field after guns
						aboard and only 200m of streamer
						still out. All gear safely onboard
						~~clamp~~ turn off 3.5. Change
						paper —
					0900Z	Start deploying streamer - no
						pots in sight

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	Ground SPD (Nav)	NAVIGATION	SEISMIC SYSTEM
	0930	851022	169.2	2.8	43 45.98 68 56.39	still deploying streamer
	1000		173.5	2.7	43 44.54 68 56.02	streamer going out still
	1030		167.0	4.6	43 42.76 68 55.61	streamer out, but bird
	1100		152.0	2.0	43° 40.81 68°54.73	
	1117					Ship apparently drifted into lobster
	1118					pot field at end of streamer
						deployment. Several pots got caught
						on first to elevation birds
						and streamer broke at 2nd bird
	1130					
	1150					Streamer broke
						after 4th channel.
						John Unger sighted
					No - wrong ones →	floats from tail buoy
						at ~1140 but could
						not see them any more.
						Heading back from
						where we came to
						find tail buoy
	1220				Yes →	Tail bag possibly sighted.
	1238					
	1247				43 44.40 68 56.00	Buoy hooked.

AREA Gulf of Maine
TIME ZONE +4

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						no 3.5 depths
						maggie out
						working on streamer; maggie pulled back in
						guns back on board.
						start pulling streamer in
						Hauling streamer in again — only 4 good channels —
	NO DATA RECORDED FOR LINE 9.					may have snagged something
						Yes streamer parted at boot fitting after ch 21. - Lead in + 4 channels aboard. Steaming back toward last way point
						~400 yds off tail buoy — approaching slowly Nav has fix

TAIL BUOY/~~STREAMER~~ RECOVERY

① Hook tail buoy - bring aboard

② Bring stretch + a/section - got caught in screws during backup - tried to hook section attached to screws - it fell off.

③ Westwind (lobsterman) standing by - in radio contact - agreed to pull nearby pot buoy - it had our streamer. He tied it off & threw us the line with it. Gave him $100.00

④ Resumed pulling in the loose end - flaked on port side. - 1 bird + end stuck in screws.

⑤ Pulled in remaining end - flaked on starboard side - 1 bird ok, 2nd bird fouled badly in pot warps - pulled one pot buoy aboard - 2 more warps attached. Untangled the mess - called Tammy B to come get buoys if she wanted - which she did.

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	1458	851022		~~water~~ ~~bridge~~ ground (NAV)		
			This is inverted from our previous convention.			
	~2200				At TAMU buoy –	
	2240				getting setup for Sea Otter & maggie survey of Fundy Fault.	
	2356					
	00:04	85 OCT 23			MAGGIE JUST DEPLOYED	
	00:34				MAGGE OUT ANOTHER 200' – NOISE	
	00:43				MAGGE ON	
	00:45				TIME MARK ON MAGGE – 1ST	
	01:00				MAG = 55618	
	01:15				" = 55570	
	01:30				" = 55556	
	01:45				" = 55376	3.5 ON
	02:00		142	3.5/4.0	" = 55327	42 49.86 69 44.66
	02:04				TURN ONTO LINE A	
	02:15		149	3.4/4.0	42 49.16 69 44.06	
	0230		147	3.3/4.0	42 48.47 69 43.47	
	0245		151	3.2/3.8	42 47.75 69 42.87	
	03:00		153	3.0/3.9	42 47:09 69 42:32	
	03:15		145	3.3/3.8	42 46:39 69 41.79	
	03:30		150	3.3/3.9	42 45.69 69 41.22	
	03:45		147	3.3/3.6	42 44.98 69:40.64	
	04:00		149	3.3/3.9	42 44.31 69 39.95	
	04:15		145	3.3/3.8	42 43.62 69 39.36	
	04:30		145	5.3/3.7	42 42.93 69 38.70	
	04:45		143	5.3/4.9	42 42.03 69 37.79	
	05:00		145	5.0/4.9	42 41.07 69 36.84	
	05:15		143	5.3/4.7	42 40.11 69 35.89	
	05:30		144	5.2/4.6	42 39.17 69 34.99	

Ground spd / water spd

These speeds ok

These speeds inverted water spd / ground spd

AREA Gulf of Maine

TIME ZONE Zulu (local + 04)

Depth ~~SWP~~	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						Fibreamer aboard – pods returned
						to Tammy D – underway to search
						for TAMU buoy in western Gulf.
						Starting to deploy
						Magnetometer & Hunter –
	TOTAL OUT = 500' (500' mark at Stern of Cygnet)					
235m						start turn onto Line A
						end turn onto Line A
242m						MAG = 55263
248m					55397	
246M					55483	
258M					55203	
265M					55172	
278M					55569	
272M					55276	
252M					55468	
272M					55483	
269M					55491	
265M					55407	
270M					55351	
270M					55131	
275M					55242	

SHIP/CRUISE NO./LEG GYRE 85-G-11
CHIEF SCIENTIST Klitgord

LINE START / END	TIME Zulu	YYMMDD	CRS/HDG	* SPD	NAVIGATION	SEISMIC SYSTEM
A Cont.	0545	85 10 23	141	5.2/4.6	42 38.25 69 34.05	
	0600		143	5.4/4.6	42 37.35 69 33.11	* all these speeds
	0615		146	5.3/4.5	42 36.42 69 32.20	were entered as
	0630		143	5.3/4.5	42 35.51 69 31.33	water speed (from bridge)
	0638		150	/3.5	42 35.02 69 30.94	ground speed (from nav)
						This is ~~[illegible]~~
	0645		150	4.8/2.7	42 34.76 69 30.75	inverted (from our previous convention
	0700		153	5.0/4.2	42 33.84 69 30.10	
	0715		143	4.8/4.3	42 32.93 69 29.40	
	0730		142	5.0/4.4	42 32.07 69 28.57	
	0740					
	0745		141	5.1/4.6	42 31.37 69 27.86	
	0800		141	4.9/4.6	42 30.49 69 26.96	
	0815		145	5.1/4.7	42 29.57 69 26.06	~~WATER~~ BOTTOM — speed
	0830		147	5.0/4.6	42 28.60 69 25.14	
	0842					
	0845		133	5.1/4.6	42 27.59 69 24.41	
	0900 ~~0830~~		015	5.0/4.4	42 28.09 69 23.38	* ~ 0915 – 0920 Sea Otter
	0915		016	4.5/3.7	42 29.01 69 22.96	down – power unplugged by
	0928					accident.
	0930		338	4.8/4.2	42 29.97 69 23.35	
	0945		321	Bridge 4.6 Nav 4.6	42° 30.85 69° 24.34	
	1000		329	Nav. 4.6	42° 31.77 69° 25.23	0955 – 1011 Sea Otter
						down again – power
						supply problems – fuse replaced.
	1015		329	Nav. 4.7	42° 32.75' 69° 26.05'	
	1030		330	4.7/4.7	42° 33.77' 69° 26.83'	
	1045		329	Nav 4.9 Bridge 4.5	42° 34.82 69° 27.61'	

AREA Gulf of Maine

TIME ZONE Zulu (local +04)

Depth ~~SWP~~ on 3.5	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
270 M					55154	
268 M					55147	
265 M					55095	
268 M					55101	
						Pull Sea Otter for redeployment outboard and below wash
270 M					55111	
270 M					55304	
270 M					55249	
268 M					55162	
						~~Sea Otter~~ Huntec back in water
265 M					55286	
265 M					55121	
248 m					55157	Mag time @ 0817
~~252 m~~					55113	
						begin turn from line A
~~251 m~~					55291	on leg between A & B
~~262 m~~					55056	" " " " "
~~258 m~~ 242 m					55065	beginning turn onto line B, mag @ 08:18
					~~55080~~	begin line B
255 m ~~237 m~~					55080	
~240 m					55157	
247 m					55105	
242 m					55080	
242 m					55592	
243 M					55141	

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST Kim KLITGORD

LINE START/END	TIME Z	YYMMDD	CRS/HDG	SPD Nav/Bridge	NAVIGATION	SEISMIC SYSTEM
B	1100	85OCT23	332	5.1/4.9	42°35.90 69°28.44	
	1115		329	4.9/4.9	42°36.96 69°29.33	
	1130		325	4.9/4.9	42°38.00 69°30.24	
	1145		327	4.8/4.9	42°39.03' 69°31.19'	
	1200		323	5.3/5.0	42°40.06' 69°32.18'	
	1215		320	4.7/5.0	42°41.03' 69°33.13'	
	1230		319	4.5/4.9	42°41.89 69°34.18'	
	~~1238~~			/		
	1245		325	3.5/4.0	42°42.74' 69°35.06	
	1300		322	3.1/3.8	42°43.45' 69°35.69'	
	1315		328	3.1/3.8	42°44.11' 69°36.31'	
	1330		329	3.6/4.4	42 44.87 69 36.95'	
	1345		329	3.3/4.4	42 45.66 69 37.57	
	1347			C/S		
	1400		330	4.1/4.9	42 46.51 69 38.21	
	1415		326	[illegible]/4.2	42 47.38 69 38.95	
	1417					
	1430		326	4.0/4.9	42 48.18 69 39.67	
	1445		327	4.1/4.8	42 49.03 69 40.44	
	1500		326	4.2/4.9	42 49.89 69 41.24	
	1515		324	4.1/4.9	42 50.74 69 42.07	
	1530		323	4.3/4.9	42 51.61 69 42.86	
	1545		320	4.4/4.8	42 52.45 69 43.71	
	1600		~~[illegible]~~	~~[illegible]~~	42°53.28 69°44.68	
			323/325	4.5/4.9		
	1615		326.2/325	4.6/	42° 54.18 69°45.62	
	1630		328/325	4.6/4.9	42° 55.13 69° 46.46	
	1645		328.6	4.6	42 56.12 69 47.27	

* back to original conventional: ground/water

AREA Gulf of Maine

TIME ZONE Z

Depth SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
240m					55071	
239m					55051	
236m					55060	
238m					55120	
237m					55138	
237m					55135	
255m					55214	
[illegible]						SLOW TO 3 KNOTS - DEPLOY SIDE SCAN
240m					55263	
252m					55345	
245m					55319	INCREASE TO 4.0 KNOTS - SIDE SCAN START
244					55456	
238					55601	
						INCREASE TO 5.0 KNTS.
230					55266	
226					55250	slow to 4.5 kts } Radio interference on sea otter frequency
						bring back up to 5kts } from single side band
215					55244	
209					55263	Work progressing well w/ repairing the streamer on the starboard. Most hands aft. One person watching the lab
207					55275	
202m					55308	
197m					55465	
195m					55529	Marking side scan every 5 min -
202m					55402	internal 2 minute marks drifts
						1 min / hr -
205m					55601	
205m					55334	
					55246	

SHIP/CRUISE NO./LEG B

CHIEF SCIENTIST K Kyllgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD Ground (Navigation) / Water (Bridge)	NAVIGATION	SEISMIC SYSTEM
	1700	85 Oct 23	329.1	4.4/4.7	42 57.09 69 48.06	
	1715		327.5	4.6/	42 58.06 69 48.92	
	1730		326.4	4.6/	42 59.03 69 49.78	
	1745		328.1	4.7/	43 0.01 69 50.65	
	1800		325.5	4.6/4.7	43 0.97 69 51.52	
	1815		323.7	4.1/	43 1.89 69 52.40	
	1830		327.5	2.6/3.7	43 2.62 69 52.99	
	1845		327.3	3.3/	43 3.33 69 53.65	
	1900		327.4	3.4/	43 4.04 69 54.31	
	1915		326.2	3.5/	43 4.75 69 54.98	
	1930		326.3	3.4/3.1	43 5.46 69 55.63	
	1945		324.7	3.8/	43 6.07 69 56.14	
	2000		317.7	2.7/2.8	43 6.60 69 56.71	
	2015		317.8	2.8/	43° 07.12' 69° 57.34'	
	2030		321	2.9/2.8	43° 07.66 69° 57.94	
	2045		325.3	2.9/3.0	43° 08.22' 69° 58.53'	
	2100		325.2	4.3/4.1	43° 08.87' 69° 59.12'	
	2108					
	2115		038.2	4.2/4.1	43° 09.76 69° 59.42'	
	2130		058.5	3.7/4.1	43° 10.30 69° 58.35	
	2145		066.1	3.7/4.1	43° 10.74 69° 57.24	
	2200		067.6	3.7/4.0	43° 11.10' 69° 56.09'	
	2215		073.7	3.7/4.0	43° 11.40 69° 54.88'	
	2230		072.9	3.7/4.1	43° 11.64 69° 53.64	
	2240					
	2245					
	2350		060.0	/3.7	43° 12.36 69° 51.33	
	2315		059.8	3.9	43° 12.83 69° 50.19	
	2318					
	~~2325~~	2325				
	2330		148.5	3.5/	~~43° 12.47 69° 49.34~~ 43°12.47 69°49.34	

AREA Gulf of Maine

TIME ZONE 2

~~SWP~~ Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
200					55261	17kz basement high:
					55391	out crops?
205					55364	
~~185~~ 185					55362	
186					55~~361~~6	18
~~186~~					55471	
197					55408	slowed down readjust sea otter
					55131	1825z speed reduced to 3kt0D
					55251	
				55299	~~55251~~	S-S @100m depth coming up to
190						Jeffrey's ledge
					55350	sea otter position changes from starboard
~~160~~					55467	stern to starboard bbom midships
~~145m~~					55520	2whales spotted! Then 4 (3+1 thump back all
145m					55380	O'Brien still working — Sea Otter
138m					55358	— still not working well —
117m					55416	
						begin 1st 30° turn of Line B
110m					55452	in between line B & C
						~~streamer~~ all cleared
						up!!!
136m.					55430	
151m					55482	
164m					55409	still on leg between line B & C
168m					55383	
170m					55371	
						side-scan on board —
169					55374	
168					55385	
172m					55384	
						starting turn onto line C.
						ON LINE C.
173m					55343.	

SHIP/CRUISE NO./LEG 6YRE-85-G-11

CHIEF SCIENTIST Rutgord.

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD Ground / Water	NAVIGATION	SEISMIC SYSTEM
LINEC	2345	85/10/23	147.4	3.6/3.9	43°11.72 69°48.64	
	0000	85/10/24	151.8	3.5/3.9	43°10.92 69°47.98	
	0015		147.6	3.7/3.9	43°10.10' 69°47.30'	
	0030		148.8	3.8/3.9	43°09.27' 69°46.63'	
	0045		147.7	3.9/3.9	43°08.44 69°46.01	
	0100		140.4	3.9/3.9	43°07.66 69°45.23'	Beautiful weather
	0115		146	3.8/3.9	43 06.89 69 44.41	Clear -
						<5Kts wind
	0120		c/s 4½ knots			Glassy seas.
	0130		141	4.4/4.5	43 06.07 69 43.53	To think people
	0145		147	4.3/4.5	43 05.19 69 42.66	pay lots of money
	0200		148	4.4/4.4	43 04.24 69 41.85	to come out here...!!
	0215		151.7	4.2/4.5	43°03.23 69°41.07	
	0230		154.9	4.8/4.5	43°02.18 69°40.29	
	0232					
	0242					
	0245		148.1	4.1/4.6	48°01.16 69°39.40'	
	0300		144.3	4.7/4.6	43°00.21' 69°38.47'	
	0315		143	4.5/4.5	42 59.29 69 37.53	
	0330		143	4.7/4.5	42 58.34 69 36.60	
	0345		144	4.6/4.7	42 57.41 69 35.71	
	0400		145	4.5/4.6	42 56.49 69 34.87	
	0415		142	4.5/	42°55.61 69° 34.03	
	0430		145	4.5/	42° 54.74 69° 33.11	
	0445		145°	4.6/	42° 53.83 69° 32.24	
	0500		148°	4.6/4.6	42° 52.87 69° 31.42	
	0515		147.8	4.7/	42° 51.87 69° 30.56	
	0530		148.6	4.8/	42° 50.88 69° 29.72	
	0545		147.3	/4.4	42° 49.93 69° 28.91	
	0600		149.1	4.4/4.5	42° 49.04 69° 28.13	
	0615		143.5	4.3/	42° 48.17 69° 27.31	
	0630		146.9	4.3/4.5	42° 47.29 69° 26.50	
	0700			/4.5	42° 45.61 69° 24.90	

AREA Gulf of Maine

TIME ZONE Z

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
~~175~~					55395	
175m					55348	
170M					55339	
168M					55321	
158M					55276	
154M					55301	
141m					55139	1 fishing boat far astern - stbd aft
130m					55324	Coming onto edge of Platts Bank
116m					55563	
116m					55528	
115M					55335	
120M					55269	
						PAPER CHANGE ON SEA OTTER RECORDER
						SEA OTTER RECORDER ON LINE
117M					55240	
140M					55203	
140m					55257	2 boats ahead, slightly to stbd -
152m					55468	fishing boats?? well Litup.
155m					55398	
158m					55395	
162m						Klitgord, Brooks, McClennen
162m						on watch.
160m						all quiet
151m						magnetometer, Sea Otter, and
						3.5kHz systems in use.
180						
153						
154						

SHIP/CRUISE NO./LEG Gyre 85-6-11

CHIEF SCIENTIST Kim Kilgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD Ground / Water	NAVIGATION	SEISMIC SYSTEM
	0715	85/10/24	142	4.0/	42 44.78 69 24.06	
	0730		148.6	4.0/	42 43.93 69 23.26	
	0745		146.1	3.7/	42 43.10 69 22.54	
	0800		149.8/144	3.7/4.6	42 42.30 69 21.55	
	0815		144.5	3.7/4.5	42° 41.55' 69° 21.32'	
	0830		148.0	3.5/4.5	42° 40.80' 69° 20.63'	
	0845		142.1	3.7/4.5	42° 40.05' 69° 19.88'	
	0900		138.9	3.7/4.5	42° 39.33' 69° 19.08'	
	0915		149.1	3.6/4.5	42° 38.59' 69° 18.35'	
	0930		148.8	3.7/4.7	42° 37.80' 69° 17.67'	
	0945		146.7	4.8/5.4	42° 36.93' 69° 16.83'	
	~~1000~~				~~42° 69°~~	
	0938					
	0950					
	0954					
	1000		131.3	3.4/3.8	42° 36.15' 69° 15.94'	
	1015		135.3	4.1/4.4	42° 35.52' 69° 15.01'	
	1030		135.0	4.2/4.5	42° 34.76' 69° 13.98'	
	1020					
	1035					
	1045		133.1	4.4/4.4	42° 34.01' 69° 12.95'	
	1100		129.2	4.2/4.5	42° 33.28' 69° 11.89'	
	1108		—	—	—	
	1117		130.8	3.9/4.5	42° 32.52' 69° 10.71'	
	1130		134.1	3.9/4.6	42° 31.96' 69° 09.86'	
	1145		135.6	4.3/4.5	42° 31.26' 69° 08.89'	
	1200		136.9	4.2/4.6	42° 30.49' 69° 07.83'	
	1215		133.7	4.4/4.4	42° 29.74' 69° 06.81'	
	1230		132.9	/4.4	42° 29.02' 69° 05.77'	
	1245		126.0	/4.5	42° 28.38' 69° 04.63'	

AREA gulf of Maine
TIME ZONE Z

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
210						
215						
218m					55315	
208m					55336	
208m					55434	
217m					55444	
224m					~~55295~~ ~~[illegible]~~	
217m					55488	
220m					55373	
						increase speed to 6 kts.
						decrease back to 4.5 thru H_2O.
						on new part of line C OBS
202m					55357	
222m					55354	
224m					55350	
						non-magnetic ridge - looks like 1/2 graben structure - on Huntec -
						Several magnetic ridges earlier
						(between 8 & 10)
						3.5 out of paper - can't seem to
						find the right size refill —
—					55365	
—					55372	3.5 still out of paper - are changing
214m					—	3.5 up - still good weather
213m					55405	~~little late~~!
215m					55398	
213m					55366	
194m					55405	
223m					55577	
225m					55747	
212m					56104	

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST KIM KLITGORD

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD GRND / H2O	NAVIGATION	SEISMIC SYSTEM
	1300	85-6-24	133	4.2 / 2.4	42 27.73 69 3.66	
	1315		129	4.3 / 4.4	42 27.03 69 2.58	
	1342					
	1350: 49				42 25.46 69 00.45	OBS A-2 deployed
	1358					
	1400Z				42 25.60 69 0.68	
	1430Z		304	9.8	42 28.28 69 6.14	
	1500		307	9.4	42 31.10 69 11.44	
	1530		299	9.6	42 33.79 69 16.76	
	1540: 24				42 34.50 69 18.60	OBS C-3 deployed
	1545					
	1600		325.7 / 133	9.4 / 9.8	42 36.35 69 20.08	
	1630		324.3	9.2 / 9.8	42 40.07 69 23.64	
	1700		326.0	9.6 / 9.9	42 43.88 69 27.41	
	1730		326.6	9.8 / 9.8	42 47.98 69 31.06	
	1735			0		ON OBS SITE #3
	1736				42° 48.52 69° 31.51	OBS #3 (A-8) deployed
	1800		328.3	9.4	42 50.95 69 33.58	
	1830		324.3	10.3 / 9.8	42 55.07 69 37.33	
	1900		330.6	10.4 / 9.7	42 59.22 69 41.31	
	1920½			0	43° 2.04'N 69° 43.54'	OBS #4 (C-4) deployed
	~~1930~~		~~321~~	~~11.4~~	~~43 2.60 69 44.09~~	
	1930		322.1	11.4	43 2.60 69 44.09	
	2000		323.9	11.1 / 9.5	43 6.57 69 48.12	
	2030		323.9	9.8 / 9.4	43° 10.50' 69° 52.06	
	2100		320.4	9.8 / 9.7	43° 14.28' 69° 56.17'	
	2130		324.2	9.7 / 9.6	43° 18.55' 70° 00.73'	
	2144		326	9.8	43° 20.03' 70° 02.03'	

AREA GULF OF MAINE

TIME ZONE Z

SWP DEPTH	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
212m					55818	
221m					55574	slow to 2kts to pull maggie & sea Otter
						All gear aboard - proceed to
						first OBS drop.
208m						
						Turn & proceed to 2nd OBS
190m						drop site.
201m						6 nm to drop off
226m						
						Turn & proceed to 3rd OBS drop.
						1617 ε small peak
168m						
142m						
						fault zone on 3.5

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Kim Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD GND / H_2O	NAVIGATION	SEISMIC SYSTEM
~~140~~	2200	85-10-24	133.1	2.0 / 2.6	43° 20.83' 70° 02.51	
OBS7	2222				43° 20.35' 70° 01.74	
	2230		134.3	3.6 / 4.1	43° 20.01' 70° 01.28'	
	~~2300~~		~~151~~	~~4.3 / 4.9~~	~~43° 17.55' 69° 59.29'~~	43° 18.18' 69° 59.95'
	2311		151.5	4.1	43° 17.55' 69° 59.29'	
	2330		140.7	4.1 / 4.8	43° 16.51 69° 58.36	
	2345					
	0000 2400	85-10-25	141.6	4.0 / 4.8	43° 14.97' 69° 56.63	
	0013					
	0015		131.9	2.3 / 2.2	43° 14.21' 69° 55.79	
	0030		122.0	0.8 / 0.9	43° 14.07' 69° 55.47'	
	0035					
	0040					
	0045		132.8	4.1 / 4.8	43° 13.78' 69° 55.03'	
	0100		139.1	4.0 / 4.7	43° 13.00' 69° 54.08'	
	0115		143	4.1 / 4.7	43 12.20 69 53.26	
	0130		149	4.3 / 4.8	43 11.31 69 52.56	
	0145		147	4.1 / 4.6	43 10.43 69 51.77	
	0200		150.1	4.2 / 4.7	43° 09.88' 69° 51.30	
	0215		147.5	4.1 / 4.8	43° 08.96 69° 50.51'	
	0230		148.8	4.1 / 4.7	43° 08.08 69° 49.71'	
	0245		143	4.3 / 4.7	43 07.24 69 48.90	
	0300		147	4.4 / 4.9	43 06.39 69 48.01	
	0315		146.0	4.3 / 4.7	43° 05.58' 69° 47.13'	
	0330		143.0	4.1 / 4.8	43° 04.67' 69° 46.33'	
	0345		144	4.0 / 4.9	43 03.84 69 45.52	
	0400		141	4.0 / 4.8	43 03.06 69 44.70	
	0415		142.4	3.7 / 4.2	43 2.29 69 43.92	
	0430		144.1	4.1	43 1.53 69 43.02	
	0445		149.8	3.9 / 4.6	43 0.73 69 42.26	
	0500		150.7	3.9 / 4.5	42 59.91 69 41.59	
	0515		149.2	3.8 / 4.7	42 59.10 69 40.89	
	0530		146.4	4.0 / 4.6	42 58.27 69 40.21	

AREA Gulf of Maine

TIME ZONE Z

~~SWP~~ Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
151 m						deploying 2000 in³ air guns
						both guns in water - testing begins
						~~test~~ firing air guns, began to
145m					—	plot locations on chart
					55516	magnetometer started recording
122m					55513	
138m					55576	
127m					55514	
						SLOW TO 2KNTS - PULL PORT GUN
149M					55504	
148M					55493	
						GUNS STOPPED FIRING
						STARBOARD GUN ONLY INCREASE
157M					55517	SPEED TO 5 KNTS.
160M					55419	
162m					55384	
173 m					55346	
178m					55421	c/a for traffic
178m					55379	BOTH GUNS FIRING
175m					55331	
176M					55351	
~~172~~					55276	
162					55390	
162					55169	
158					55500	
151					55448	
147					55498	
145					55359	
~~150~~					55281	0412 Closest approach to OBS #4 C-4
~~150~~ 142					55252	
					55237	
125					55250	
125					55360	

SHIP/CRUISE NO./LEG Gyre 85-G-11

CHIEF SCIENTIST Kim Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD GND / W.O	NAVIGATION	SEISMIC SYSTEM
25/Oct	0600	85/10/25	143.9	3.9/4.5	42 52.47 69 39.44	2x2000 in³ OBS +3.5
OBS7	0600		142.2	3.9/4.6	42 56.68 69 38.64	
	0615		145.6	3.8/4.6	42 55.89 69 37.92	
	0630		150.6	3.5/4.6	42 55.09 69 37.29	
	0645		143.7	3.6	42 54.32 69 36.64	
	0700		144.4	3.5/4.1	42 53.56 69 35.94	
	0715		146.5	3.8	42 52.78 69 35.25	
	0730		135.0	3.8/4.1	42 52.06 69 34.48	
	0745		148.5	4.0/4.3	42° 51.25' 69° 33.81'	
	0800		147.3	3.5/4.2	42° 50.42' 69° 33.18'	
	0815		152.9	3.4/4.5	42° 49.65' 69° 32.53'	
	0830		148.1	3.8/4.8	42° 48.87' 69° 32.00'	
	#0837				42° 48.49' 69° 31.65'	
	0845		138.3	3.7/4.6	42° 48.07' 69° 31.22'	
	0900		141.5	4.0/5.2	42° 47.31' 69° 30.39'	
	0915		143.2	3.7/4.5	42° 46.53' 69° 29.63'	
	0930		146.9	3.4/4.8	42° 45.74' 69° 28.92'	
	0945		148.4	3.7/4.9	42° 44.93' 69° 28.21	
	1000		143.8	4.1/5.2	42° 44.09' 69° 27.48	
	1015		143.6	3.8/4.7	42° 43.30' 69° 26.71'	
	1030		147.2	4.2/5.2	42° 42.48' 69° 25.94'	
	1045		145.8	3.9/5.1	42° 41.69' 69° 25.19'	
	1100		147.3	4.1/4.9	42° 40.82' 69° 24.41'	
	1115		146.3	4.4/5.3	42° 39.94' 69° 23.61'	
	1130		146.2	4.2/5.0	42° 39.06' 69° 22.82'	
	1145		149.7	4.1/5.0	42° 38.19' 69° 22.03'	
	1200		145.8	4.3/5.1	42° 37.28' 69° 21.18'	
	1215		149.3	4.2/5.0	42° 36.38' 69° 20.37'	
	1230		151.1	4.5/5.2	42° 35.46' 69° 19.60'	
	1245		145	4.8/5.5	42 34.52 69 18.82	closest approach to OBS G3
	1300		125	4.6/4.5	42 33.71 69 17.77	
	1315		118.4	4.5/4.7	42° 33.34 69° 16.45'	
	1330		122.3	5.0/5.1	42° 32.41 69° 15.05	

AREA Gulf of Maine

TIME ZONE Z

SWP Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
					55374	
160M					55339	
158M					~~55346~~	
142 M					55xxx	
158M					55337	
170M					55390	
185M					55	
175M					55382	
174M					55353	
178M					55333	3.5 KHz getting hard to read
182M					55320	
168m					55245	very poor depth from 3.5 khz —
						passing over OBS #3 (A-8)
167m					55264	
172m					55287	SEASTATE STEADILY WORSENING
172m					55357	
178m					55360	change paper on magnetometer
186m					55354	start @ 0933 for mag.
190m					55195	
205m						3.5 khz very hard to read; depth approx.
198m					55181	
~220m					55183	
~223m					55140	
210m					55146	
?					55330	3.5 unreadable
227m					55452	
~225m					55293	
~226m					55277	
~229					55285	
225					55257	
230					55257	3.5 clearing up
212					55144	
227					55163	

SHIP/CRUISE NO./LEG GYRE 85-6 F11

CHIEF SCIENTIST KIM KLITGORD

LINE START / END	TIME	YYMMDD	CRS/HDG	SRD (gun/water)	NAVIGATION	SEISMIC SYSTEM
OBS 7	1345	851025	121	5.3 / 5.8	42 31.81 69 13.53	2×2000 in³ + OBS + 3.5 kHz
	1400		118	5.2 / 5.6	42 31.19 69 11.99	
	1415		124.5	5.1 / 5.7	42°30.50' 69°10.47'	
	1430		123.9	5.6 / 5.5	42°29.74' 69°08.96'	
	1445		125	5.5 / 5.5	42 28.98 69 7.44	
	1500		127	5.7 / 5.6	42 28.16 69 5.93	
	1515		125.0	5.8 / 5.5	42°27.31' 69°04.40	
	1530		125.4	5.5 / 5.3	42°26.55' 69°02.89'	
	1545		185	5.7 / 4.8	42 25.56 69 01.77	.7 miles from OBS
	1600		130.1	5.7	42 24.30 69 01.55	
	1615		120.2	5.6 / 5.4	42 23.53 68 59.97	
	1630		116.7	5.6 / 5.6	42 22.85 68 58.33	
	1707		-		42° 22.01 68°58.37	heading to OBS #1
						to recover - OBS -
	1730					
	1737					ON site OBS #1
	1739					on way up
	1900				42° 29.00 69° 9.55	
	2000			0/0	42° 34.45 69°18.52	on site OBS #2 (C-3)
	2006					OBS #2 on way up.
	2010					OBS site - moving to pickup
	2017					OBS on board
	2020			9		
	2031				42° 35.4 69° 19.6	
	2046					
	2100			8.8	42 38.9 69 23.2	
	2119			9.0		
	2130			10.0 / 9.1	42° 42.8 69° 27.3	
	2146					
	2200			9.6 / 9.0	42° 47.2 69° 30.2	
	2230			2.4 / 16		just starting up after OBS pickup

AREA Gulf of Maine

TIME ZONE +4 Zulu

DEPTH	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
227m					55236	
212					55240	
197					55268	
221					55362	
221					55704	Big High South West of Cashes Ledge Not
231					56336	
232					56259	
214					55492	Ya for ship traffic
231					55265	.7 miles from OBS A-2
220					55153	
223					55063	
					55000	Left about
						END OBS LINE # 7
						2 - 2000 cu.in airguns
						and magnetometer on board
						Good 3.5 kHz Record
207m						
						OBS #1 on board
						Full tape - 4 track
224m						
						heading to next OBS site
227m						
227m						
230m						
225m						
217m						
184m						
169m						
178m						

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Kim Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD GND / H2O	NAVIGATION	SEISMIC SYSTEM
	2245	85-10-25		/9.1		
	2300			8.6/8.4	42°51.73' 69°34.45'	
	2315			/8.5		
	2330			9.2/8.8	42°55.32' 69°37.78	
	2345			/9.0		
	0000	85 OCT 26		9.2/9.0	42°59.2 69° 41.0	
	0015			9.3/8.8	43°01.15 69°42.69'	
	0026					
	0027					
	0030			1.3/1.7	43°01.96'69°43.46'	
	0032					
	0042					MAGNETOMETER DEPLOYED
						SPEED 5 KNTS
	0045		170.6	5.1/5.5	43°01.95' 69°43.28'	MAGNETOMETER RUNNING
	0100		165.9	9.3/10.2	43°00.20' 69°42.73'	
	0115		168.1	9.2/10.1	42°57.96' 69°42.08'	
	0130		166	9.6/9.9	42 55.67 69 41.424	
	0145					
	0200		161	9.7/10.2	42 51.45 69 38.42	
	0215					
	0230		148.4	9.9/10.4	42°47.29'69°34.99'	
	0245		147.0			
	0300			10.3/10.1	42°42.10' 69°31.60	
	0315					
	0330		152.2	10.3/10.1	42 38.68 69°28.21'	
	0345					
	0400		155.3	9.4/10.3	42°34.25' 69°25.90'	
	0419		162.0	4.1/	42 32.57 69 24.17	
	0430		154.3	4.4/	42 31.48 69 23.57	
	0449		132.8	5.6/6.1	42 30.17 69 22.47	
	0500		133.5	5.6/5.9	42 29.46 69 21.53	

AREA Gulf of Maine

TIME ZONE Z

~~SWP~~ depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
173m						proceeding to pick-up OBS #4
171m						
169m						
151m						
147m						
126m						
148m						
						LAST OBS RECALLED - OBS LINE 7
						OBS SITED
145m						
						LAST OBS, LINE 7, ONBOARD
						DEPLOYING MAGNETOMETER
						PROCEEDING TO FIRST OBS
143						DROP SITE, OBS LINE 8
142					55249	
146					55260	
157					55282	
158					55363	
161					55349	
166					55313	
185					55432	
205					55416	
245					55212	
243					55125	
234					55051	
233					55125	
236					55332	
234					55	0411 MAG in
235						Large swells with
230						~20 knot winds.
223						Holding station until
						0800Z before deploying OBSs
						to get better sea state

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
1130	Oct 26	85/10/26			Winds ~30 kts, gusting to 35-40 —	
					Gale warnings for today & this evening.	
					Seas (6-8') swells - Don't think that we	
					can proceed with OBS line now.	
					Wait until ~~weather~~ wind dies down.	
~~1130~~	1700		274.9	1.9	42° 35.97 69°36.97	magnetometer deployed
	1715				42°	
	1730		295.0	1.7	42 36.29 69 38.27	
	1800		118.4	5.1	42 35.47 69 36.25	
	1830		116.4	4.9	42 34.32 69 33.21	
	1900		122.2	4.7/5.5	42 33.04 69 30.34	
	1915			/5.6		
	1930		116.4	4.9	42 34.31 69 33.21	
	1945					
	2000		115.3	4.7	42° 30.64 69° 24.68	
	2015					
	2023					
	2100Z					
	2200		c/s	slow	42° 29.51' 69° 21.62	on site OBS#1 (A-8)
	2209		c/s slop	0		OBS#1 ~~Released~~ deployed.
	2210	26 Oct 85			42° 28.97'N 69° 20.98'W	Water depth = 220m
	2235					
	2245					
	2300		48.5	9.9	42° 33.40 69° 13.86	
	2315					
	2330					
	2347			/9.6		
	0001	27-10-85		/7.4	42° 39.50' 69° 03.67'	OBS #2
	0003	A2 shot			42° 39.58' 69° 03.43'	dropped OBS #2, A2
	0015					
	0030		49.1	9.4/9.1	42° 41.49' 69° 01.16'	
	0045					
	0100		47.5	9.3/8.1	42° 44.06' 68° 55.91'	

AREA Gulf of Maine

TIME ZONE +4

Depth SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						Weather did not
						permit any seismic work
						for ~ 1 day with
						30-35 knot winds and
						10-12 foot seas
					55198	
					55184	
					55184	
					55222	
					55247	
					55243	Weather finally calmed
					55196	down about mid Afternoon
					55244	and steaming now to
					55114	OBS #1 deployment site
					55178	winds ~ 20-25 knots
					55096	Seas ~ 5-6 feet
						brought in magnetometer
—						on station - waiting until
						after dinner to deploy
220m						OBS
223						
226m						
222m						
210m						
192m						
188m						
167m						
170m						OBS A2 in water
166m						
150m						
149m						
143m						

SHIP/CRUISE NO./LEG GYRE 85-6-11

CHIEF SCIENTIST KIM KLITGORD

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	0115	85-10-27	48.8	9.4/9.1	42°45.72' 68°58.33'	
	0130		51.7	9.2/9.1	42°47.41' 68°51.08'	
	0145					
	0158		49.7	2.0/1.2	42°49.54' 68°46.41	OBS#3 (C-3)
	0200		237.0	2.6/1.1	42°49.52' 68°46.45	
	0215					
	0230		55.1	9.2/9.4	42°51.98' 68°41.99'	
	0248					
	0300		50.9	9.1/9.4	42°54.60' 68°36.92'	
	0315					
	0330		47.0	9.0/9.4	42°57.68' 68°42.36'	
	0345					
	0400		49.4	9.0	43 00.68 68.27.79	
	0415		332.8	0.4/1.5	43 00.65 68 28.01	
	0429					
	0430		278.9	3.7/4.2	43 00.80 68 28.80	
	0445		210.0	4.5/4.4	43 00.02 68 29.71	
SOL 0558	0500		224.4	4.0/4.4	42 59.10 68 30.55	c/ clocks from DLS to EST
	0515		227.4	4.1/4.3	4258.41 6831.63	
	0530		220.4	3.9	4257.74 68 32.72	
	0545		227.0	4.0	4257.07 68 33.81	
	0600		228.0	4.3/4.4	42 56.31 6834.89	
	0615		232.8	4.6/4.5	42 55.69 68 36.05	
	0630		231.0	4.4/4.5	42 55.02 68 37.21	
	0645		236.2	4.5	42 54.37 68 38.42	
	0700		236.0	4.5/4.4	42 53.75 6839.63	
	0715		226.2	4.2/4.4	42 53.03 68 4074	
	0730		227.8	4.3/4.4	42 52.31 68 41.84	
	0745		235	4.4/4.4	42 51.63 68 42.97	
	0800		232.3	4.4/4.5	42 50.98 68 44.15	
	0815		235.1	4.5/4.5	42 50.30 68 45.32	
	0830		228.5	4.5/4.5	42 49.59 68 46.47	
	0845		228.2	4.1/4.3	42 48.90 68 47.61	

AREA GULF OF MAINE

TIME ZONE ZULU (local + 04/05)

DEPTH SWP Meters	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
90m						
150m						
193m						
225m						OBS NUMBER CJ IN WATER
232m						
205m						
204m						
180m						
167m						
195m						
173m						
192m						
192M						Begin deploying 2 2000 in³ guns
195M						Still deploying
						First Shot of ~~Air guns~~
190						
175						
195						Begin line OBS #8
183						
170					55264	Magnetometer streamed
193						Sea Otter deployed
184					55266	
173					55042	
178					54955	
185					53141	
210					54949	
200						
195						
~~225~~						
215						
210						
220						Closest approach to OBS#1 (C-3)
197						

SHIP/CRUISE NO./LEG Cyre 85-6-11

CHIEF SCIENTIST Kim Kristgard

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD GND / H_2O	NAVIGATION	SEISMIC SYSTEM
OBS 6	0900	85 OCT 27	229.3	4.4 / 4.5	42° 48.20 68° 48.76	2, 2000 in^3 airguns @ OBS
	0915		227.1	4.2 / 4.5	42° 47.50' 68° 49.88'	
	0930		231.0	4.1 / 4.4	42° 46.80' 68° 50.94'	
	0945		234.6	4.3 / 4.4	42° 46.15' 68° 52.09'	
	1000		236.9	4.6 / 4.5	42° 45.50' 68° 53.30'	
	1015		241.6	4.0 / 4.5	42° 44.91' 68° 54.47'	
	1030		234.9	4.0 / 4.5	42° 44.34' 68° 55.57'	
	1045		229.1	3.9 / 4.3	42° 43.71' 68° 56.58'	
	1056		—	—	—	
	1100		229.3	4.7 / 5.2	42° 43.06' 68° 57.57'	
	1107		—	—	—	
	1115		229.4	4.6 / 5.1	42° 42.37' 68° 58.76'	
	1130		238.8	3.0 / 3.6	42° 41.75' 68° 59.71'	
	1145		231.2	4.3 / 4.8	42° 41.13 69° 00.82'	
	1200		229.6	4.1 / 4.8	42° 40.47' 69° 01.92'	
	1215		233.1	4.2 / 4.6	42° 39.82' 69° 03.00'	
	1221		—	—	42° 39.58' 69° 03.44'	
	1230		226.5	4.1 / 4.7	42° 39.16 69° 04.07	
	1245		230.5	4.1 / 4.6	42° 38.50' 69° 05.17'	
	1300		227.0	4.1 / 4.5	42° 37.84 69° 06.27'	
	1315		228.4	4.1 / 4.6	42° 37.16' 69° 07.32	
	1330		231.5	4.2 / 4.6	42° 36.48' 69° 08.38'	
	1345		228.2	4.2 / 4.5	42° 35.83' 69° 09.46'	
	1400		231.3	4.4 / 4.6	42° 35.13' 69° 10.55'	
	1415		232	4.3 / 4.6	42 34.49 69 11.69	
	1430		231	4.1 / 4.5	42 33.83 69 12.78	
	1445		227	4.0 / 4.9	42 33.16 69 13.80	
	1500		227	3.8 / 4.5	42 32.56 69 14.80	
	1515		230.5	3.6 / 4.3	42° 32.01' 69° 15.72'	
	1530		237.9	3.2 / 4.5	42° 31.37' 69 16.81'	
	1545		232.4	3.6 / 4.0	42° 30.97' 69° 17.67'	
	1600		229.4	3.9 / 3.8	42° 30.45 69° 18.53	
	1615		234	3.2 / 4.4	42 29.93 69 19.40	

AREA Gulf of Maine

TIME ZONE Zulu (local + 05)

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
190					56080	
168m					56115	
145m					55919	
153m					55774	
94m					55691	
115m					55670	
137m					55735	
139m					55747	
—					—	increase speed by 0.5 kt.
149m					55755	
—					—	missed 1 shot, reset timer
150m					55756	
150m					55714	
158m					55688	
165m					55692	
145m					55686	
~167m	~167 m depth				—	over OBS #2 (AZ)
178m					55620	
186m					55658	
187m					55637	
177m					55642	
194m					55536	1329, 1331 missed shots
210m					55500	
211m					55461	
217m					55387	
215m					55336	
223m					55265	
227m					55170	
227m					55128	
233m					55206	
235m					55203	
238m					55051	
227m					55028	

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST KLITGORD

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
OBS 8	1630	851027	224	3.0/4.0	42 29.36 69 20.31	
	1633					OVER OBS #1 (A8)
	1645		232	4.0/5.0	42 28.72 69 21.36	
	1651					
	1700		239	4.1/4.6	42 28.04 69 22.34	2×2000 cu in airguns
	1715		223.4	4.2/4.8	42 27.46 69 23.37	at 2 min firing rate
	1730		231.6	3.6/	42 26.79 69 24.31	
	1745		233.1	4.3/4.9	42 26.19 69 25.39	
	1800		232.2	3.6/4.8	42 25.61 69 26.42	
	1815		227.7	3.8/	42 25.10 69 27.43	
	1830		226.9	4.1/	42 24.43 69 28.35	
	1845		238.7	4.0/	42 28.88 69 29.57	
	1900		236.6	3.5/	42 23.40 69 30.38	
	1915		220.8	3.8/	42 22.77 69 31.41	
	1930		221.6	3.7/	42 22.13 69 32.37	
	1945		225.6	3.9/	42 21.51 69 33.11	
	2000		226.8	3.7/4.9	42 20.89 69 33.95	
EOL OBS 8	2030			3	42° 19.83 69° 35.72	C/S slow to pull in gear
						MAGGIE and Sea Otter
	2055					AIR GUNS ONBOARD
	2100	underway				
	2130			9.6/9.3	42° 20.6 69° 32.8	
	2200		43.9	9.7/9.7	42° 24.1 69° 28.1	
	2230		48.3	9.8/9.8	42° 27.4 69° 23.3	
	2300		45.0	0.7/1.8	42° 29.1 69° 20.8	A8 on board
	2330		50	9.8	42° 30.9 69° 18.2	
	0000		50.5	9.6/9.5	42° 33.8 69° 13.1	
	~0115					
	0200		57	9.1/9.6	42 43.22 69 57.93	
	0300		52	8.5/9.9	42 48.57 68 48.04	
	0325					OBS #3 C3 on board

AREA GULF OF MAINE

TIME ZONE ZULU (local +05)

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
222m					55004	3.5 record deteriorating in increasing sear
208m					54997	
						SEA OTTER Turned off
267					55097	
275					55049	Weather getting worse
250					55131	~ 20-25 knot winds
245					55133	6-8 foot seas
240					55077	3.5 + Sea otter shut down
					55076	3.5 moved to dry lab #1
					55071	can't read bathy there
					55083	
					55078	
					55076	
—					55054	
—	No depths				55042	
—	3.5kHz				55049	
—	not giving					Pulling in magnetometer
—	data because					and Sea Otter, then
—	of bad weather					2 airguns EOL #OBS 8
—						underway to OBS site #1
						picking up OBS#1 (A-8) rough seas!
						Pick up OBS #2 (A-2) still rough.
						Approaching last OBS pick up
						OBS #3 on board

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST K. Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	0330	85-10-28			D3 onboard.	all onboard
						No gear deployed.
						while holding station
	1350					
	2310Z			9knots		enter Nantucket Sound
	0430Z					At Woods Hole

AREA Gulf of Maine

TIME ZONE +5 Z

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						partially cloudy skies
						20-25 knot winds
						8-10 foot seas
						holding station until
						morning waiting for
						better weather
						plan to start multichannel
						seismic profiling from
						OBS #3 site as soon
						as weather permits.
						Weather forecast for
						28 Oct is more the
						same weather with
						gale warnings. May
						have to hold station
						for atleast one full
						day.
						C/C FOR WOODS HOLE
						weather getting worse
						with seas predicted
						to 10-14 foot seas for
						the next day or half +
						so going into port
						to get compressor fixed.
						At Woods Hole

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST K. Klitgord

LINE START/END	TIME	YYMMDD	CRS/HDG	SPD GND/H2O	NAVIGATION	SEISMIC SYSTEM
	~~[illegible]~~					
	1430Z	85/10/30				—
	2038Z					slow to deploy streamer
	0000Z	85-10-31				sea otter over side
	0018Z					magnetometer streamed
SOL 9	0043				41 38.26 69 29.25	First shot SP1 = file 121
	0100		336.0	4.4	41° 39.57' 69° 30.15'	file 224
	0115					file 325
	0130		336	5.1/4.6	41 41.72 69 31.67	file 400
	0145					
	~~0146~~					
	0148			c/s		
	0200		332	4.3/3.7	41 43.99 69 33.25	file 595
	0215					file 671
	0221					
	0227					
	0229					
	0230		332	4.1/3.5	41 45.80 69 34.44	file 746
	0245					file 818
	0300					

AREA Gulf of Maine
TIME ZONE +5

~~SWP~~ DEPTH	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
						Depart WoodsHole WHOI. pier.
						Compressor repaired and Sea Otter repaired.
						Weather looks much better in the Gulf of Maine for the next few days
						Start Seismic MCS.
						line # 9
110					54855	
113					54897	
124					54908	
148					54859	Adjusting guns - having trouble shooting so rapidly
						slow by ½ kt / to 4.5 over ground
159					54877	ch 15 sumo back on
161					54905	
						o/scale on sea otter delay ⅛ sec.
						scale = 94 - 281.5 + 94 m
162					54861	
159m					54864	1 few lights far ahead - perhaps ship traffic - otherwise
						seagulls all around over
						eating small fish. Seas calm
						light wind Cold outside.
						Tall buoy strobe visible

SHIP/CRUISE NO./LEG GYRE 85-6-11

CHIEF SCIENTIST Kim Kristgaard

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
Line 9	0300Z	85/10/30	328	3.8	41°47.47' 69°35.60'	file 847
	0315					
	0330		331	4.3/3.9	41°49.20' 69°37.00'	file 1039 shot 930
	0345					
	0400		331	4.0/3.7	41°51.00' 69°38.27'	file 1189 shot 1070
	0415					
	0423					
	0428					~~file~~
	0429					file 1329
	0430		338	4.0/4.4	41°52.85' 69°39.36'	file 1338
	0436					file 1364
	0438					file 1378
	0445					file 1409
	0449					file 1430
	0457					file 1465
	0458					
	0500		333	3.9/4.4	41°54.65 69°40.58	file 1491
	0504					
	0515			/4.4		
	0522					file 1592
	0530		316.5	4.7/5.2	41 56.78 69 42.37	
	0545		~~316.5~~	~~4.7~~/5.8		file 1731
	0600		318.1	5.4/6.9	41 58.23 69 44.25	" 1832
	0615			/6.0		" 1932
	0630		339	5.2/	42 0.53 69°46.29	" 2032
	0645			/5.0		"
	0700		339.9	3.9/5.1	42 2.62 69°47.30	" 2193

AREA Gulf of Maine

TIME ZONE Zulu

~~SWP~~ DEPTH	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
174m					54845	SPEED UP .5 KNOTS
171m					54848	
177m					54918	
184m					54873	
190m					54794	
189m					54904	
						CHANGE DELAY TO 4MS ON
						PORT 540 CU IN GUN.
						ALSO CHAN. 15 SEEMS TO
						BE NOISY AGAIN.
						CHANGE DELAY TO 5MS ON
						PORT GUN
178m					54876	CHANGE DELAY TO 4MS ON PORT GUN
						~~PORT GUN~~ 3MS DELAY ON PORT GUN
						2MS DELAY ON PORT GUN
163m					54808	
						4 MS DELAY ON PORT GUN
						2MS " " " "
						FISHING BOAT 2 MILES
						AHEAD, BRIDGE WILL
						NOTIFY ON STATUS OF
						VESSELS COURSE.
149m					54860	
						Turn 15° to STBD to avoid
					54889	fishing vessel ahead.
						3 MS on Port
135m					54898	Sped up to avoid vessel
140m					54830	
137					54900	
146				55189	~~55050~~	0635 reducing speed to 4.5
156					55050	
167					54887	
169					54917	

SHIP/CRUISE NO./LEG GYRE '85-G-11

CHIEF SCIENTIST Kim Kilygard

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
LINE 9	0715Z	85/10/31		/		SYLE 2260
	0730		338.6	3.7/5.2	42° 4.26 69° 48.14	"
	0745			/		"
	0800		341.3	3.5/4.8	42° 6.01 69° 49.08	" 2465
	0815			/4.8		
	0830		340.8	3.7/5.1	42° 7.64 69° 49.97	" 2598
	0845			/	42° 69°	
	0900		341.6	3.3/4.9	42° 9.41 69° 30.84	" 2733
	0915					2815
	0930		336.1	3.4/4.7	42° 11.00 69° 51.82	" 2865
	0945					
						" 2931
	1000		332.4	3.2	42° 12.57 69° 52.86	" 2997
	1015					
	1030		325.2	3.3	42° 14.05 69° 54.04'	" 3120
	1045					
	1100		332.8	3.5/4.5	42° 15.46' 69° 55.21'	" 3184
	1115					" 3215
	1130		335.1	3.7/33	42° 17.05' 69° 56.22'	" 3315
	1145					" 3389
	1200		334.3	3.6/4.3	42° 18.65' 69° 57.24'	
	1215					" 3514
	1230		338.1	3.7/4.4	42° 20.22' 69° 58.24'	" 3643
	1245					" 3710
	1300		329.4	3.5/4.0	42° 21.91' 69° 59.35	" 3770 3773
	1310					
	1315		328	4.1/4.0	42° 23.79' 70° 00.78'	" 3855
	1330		↓	↓	↓	" 3935
	1345					" 4003
	1353					
	1400		339	3.7/4.4	42° 25.45 70° 01.98	" 4072
	1415					" 4140
	1430		337	3.8/4.4	42° 27.06' 70° 02.92'	" 4208

AREA Gulf of Maine

TIME ZONE Zulu

~~SWP~~ Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
170M						
180M						
						Lost Sea Otter Record
					54960	
					54949	
					54949	
					54926	
					54943	
[redacted]m					549[redacted]30	
[redacted]	200m				549[redacted]47	
177m					549[redacted]42	
					[redacted]	
177m					54961	
181m					54976	
183m					54984	
197m					55036	
123m					55072	
179m					55012	
198m					55016	
200m					55022	
223m					55038	
218m					55049	
210m					55055	
213m					55060	
204m					55057	bring up speed ½ knot
						SEA OTTER - CHANGE BELT
194m					55059	" " - BACK ONLINE
177m					55059	
119m					55059	
						SEA OTTER DELAY CHANGED
101m					55078	
103m					55122	
91m					55145	

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST RIM KLITGORD

LINE START/END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
LINE 9	1445	85-10-31				FILE 4277
	1500		334	3.9/4.3	42°28.75' 70°04.07'	" 4348
	1515					
	1520					FILE 4443
	1530		347	3.5/4.1	42°30.47 70°05.10'	
	1535					
	~~1545~~					
	1545		~~347~~	~~3.5/4.1~~	~~42°30.47' 70°05.10'~~	FILE 4557
	~~1557~~					
	1557					
	1600		22	3.3/4.0	42°32.33' 70°05.05'	" 4622
	1615					"
	1619					
	1620					
	1630		3.7	3.8/4.3	42°34.02' 70°04.53'	" 4754
	1640					
	1645					" 4821
	1700		347	3.7/4.4	42°35.75 70°04.84'	" 4888
	1715					
	1730		351.7	3.5/4.3	42°37.49 70°5.22'	" 5019
	1745					
	1800		353.9	4.4/4.5	42°39.51 70°5.48	" 5168
	1815			/5.2		" 5250
	1830		001.5	4.4/5.1	42 41.66 70 5.62	" 5335
	1845			/5.1		" 5412
	1900			/5.2	42 43.95 70 5.58	" 5496
	1915					" 5585

AREA Gulf of Maine

TIME ZONE Zulu

DEPTH SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
90m					55120	
101m					55127	
104m					55129	
						CHANGE STREAMER GEOMETRY -
						UNPLUG STREAMER
101m					55126	
						STREAMER BACK ONLINE GEOMETRY SAME
						WINCH BOX WOULD NOT WORK
						GREG WORKING ON IT.
116m					55147	
						FISHING VESSEL IN AREA - TURN
						TO RIGHT
118m					55164	
124m					55198	
						CHANGE STREAMER BIRD DEPTH
						TO TRY AND RAISE.
						TURNING TO TRY AND COME
						BACK ON LINE.
115m					55222	
						1640 Z - BACK ON LINE
115m					55255	
113m					55268	
118m					55288	
125m					55308	3.5 kHz Back in Service
133M					55326	1739; increase speed to 5kts in water
113M					55343	change from 3/8 to 1/4 sweep on 3.5 khz
115					55342	
110					55338	
112					55339	
140A					55320	
151					55350	

SHIP/CRUISE NO./LEG Gyre 85-6-11

CHIEF SCIENTIST Kim Kristgord

LINE START/END	TIME	YYMMDD	CRS/HDG	SPD GND/HDG	NAVIGATION	SEISMIC SYSTEM
9	1930Z	85/10/31	357.8	4.5/5.2	42 46.25 70 5.73	F.L.G 5690
	1945			5.1		"
	2000		358.5	4.4	42 48.53 70 5.98	" 5835
	2015				[redacted]	" 5919
	2030		358.6	4.5	42 50.69 70 6.05	" 5997
	20:45			5.4		" 6080
	2100		355.4	4.4	42° 52.58 70° 6.18	" 6161
	2115			5.4		"
	2130		012.6	4.6/5.3	42° 55.10' 70°08.67	" 6324
	2145			5.4		" 6410
	2155					
	2200		003.4	4.6/5.4	42°57.24' 70°04.67'	" 6498
	2215					6585
	2230		342.0	4.6	42° 59.60 70°05.30	" [redacted] 6673
	2245					" 6763
	2300		345.1	5.0/5.3	43°01.9 70°06.3	" 6855
	2310					
	2315					" 6952
	2330		354.2	5.4/5.3	43 04.60 70°06.67	"
	2345					" 7147
	0000	85/11/01	358.4	5.3/5.3	43°07.2 70° 06.7'	" 7246
	0015			5.1	1	"
	0030		360.0	5.3/5.3	43°09.7' 70°06.8'	
	0045			5.3		
	0100		357.3	5.5/5.4	43°12.4' 70°06.9'	" 7645
	0115					" 7742
	0130		357	5.2/5.0	43 15.13 70.06.88	" 7840
	0145					" 7934
	0200		351	5.0/5.0	43 17.68 70 07.19	" 8026
	0215					" 8119
	0221					" 8157
	0230		357	5.1/4.9	43°20.25 70°07.46'	" 8212
	0242					

AREA Gulf of Maine

TIME ZONE Zulu

SWP Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
125m					55443	
106M					55605	
110M					55500	
145					55461	
115					553XX	whales seen w ½ mile W of Ship
105 M					55325	
79 M					55300	Moving to Starboard Towards fishing gear
62 m					55480	
61m					55320	
72m					55322	
						1mi E of line to avoid fishing
86m					55315	gear - headed by onto line.
111m					55377	
121m					55312	
125m					55317	
156m					55317	
						Back on line now
145m					55312	
114m					55397	
103m					55440	
110m					55365	
93m					55500	
157m					55486	
157m					55520	
153m					55464	
146					55545	
148					55633	
143					55570	
136m					55540	
135m					55535	
						PORT GUN DELAY TO 3MS
104m					55556	START TURN 2 LINE 9 END
						NO DELAY ON SEA OTTER RECORDERS

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST KIM KLITGORD

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
LINE 9	0245	~~85-10-31~~				file 8312
	0300	85 NOV 1	39	5.4 / 5.2	43°22.40' 70°05.78'	" 8406
	0302					
	0315					
	0320					
	0324					file 8570
EOL 9	0330		48	5.3	43 24.37 70 3.28	file 8613 = SP 8495
BOL 10	0334		51	5.2	43 24.56 70 3.01	file 7 = SP 8
	0345					file 79
~~BOL 10~~	0348					file 103
	0400		89	5.3 / 5.2	43 25.67 70 0.32	file 175
	0415					file 269
	0430		165.5	5.0 / 5.3	43° 24.25 69° 57.99	file 362
	0445					file 455
	0500		172	5.1 / 5.2	43 21.71 69 57.59	file 551
	0515			5.1		~~file~~ 647
	0530:50		161.3	5.4 / 5.2	43 19.07 69 56.80	file 743 at 0530
	0545			5.1		
	0600:15		163.7	5.3 / 5.2	43 16.65 69 55.72	file 922 file 1018
	0615					~~0630~~
	0630		155.4	5.1 / 4.9	43 14.24 69 54.57	file 1114
	0645					file 1207
	0700		149.6	5.0 / 5.0	43 12.05 69 52.73	file 1302
	0715					
	0730		148.3	5.1 / 5.0	43 9.98 69 50.99	file 1487
	0745			5.0		file 1577
	0800		147.0	4.7 / 5.1	43 7.95 69 4.17	file 1666

AREA Gulf of Maine

TIME ZONE Zulu

SWP Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
125m					55443	
106M					55605	
110M					55500	
145					55461	
115					553XX	whales seen w ½ mile W of Ship
105M					55325	
79M					55300	Moving to Starboard Towards fishing gear
62m					55480	
61m					55320	
72m					55322	
						1mi E of line to avoid fishing
86m					55315	gear - headed by onto line.
111m					55377	
121m					55312	
125m					55317	
156m					55317	
						Back on line now
145m					55312	
114m					55397	
103m					55440	
110m					55365	
93m					55500	
157m					55486	
157m					55520	
153m					55464	
146					55545	
148					55633	
143					55570	
136m					55540	
135m					55535	
						PORT GUN DELAY TO 3MS
104m					55556	START TURN @ LINE 9 END
						NO DELAY ON SEA OTTER RECORDERS

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST KIM KLITGORD

LINE START/END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
LINE 9	0245	~~85-10-31~~				file 8312
	0300	85 NOV 1	39	5.4/5.2	43°22.40' 70°05.78'	" 8406
	0302					
	0315					
	0320					
	0324					file 8570
EOL 9	0330		48	5.3	43 24.37 70 3.28	file 8613 = SP 8495
BOL 10	0334		51	5.2	43 24.56 70 3.01	file 7 = SP 8
	0345					file 79
~~BOL 10~~	0348					file 103
	0400		89	5.3/5.2	43 25.67 70 0.32	file 175
	0415					file 269
	0430		165.5	5.0/5.3	43° 24.25 69° 57.99	file 362
	0445					file 455
	0500		172	5.1/5.2	43 21.71 69 57.59	file 551
	0515			/5.1		file 647
	0530:50		161.3	5.4/5.2	43 19.07 69 56.80	file 743 at 0530
	0545			/5.1		
	0600:25		163.7	5.2/5.2	43 16.65 69 55.72	file 922
	0615					~~[illegible]~~ file 1018
	0630		155.4	5.1/4.9	43 14.24 69 54.57	file 1114
	0645					file 1207
	0700		149.6	5.0/5.0	43 12.05 69 52.73	file 1302
	0715					
	0730		148.3	5.1/5.0	43 9.98 69 50.99	file 1487
	0745			/5.0		file 1577
	0800		147.0	4.7/5.1	43 7.95 69 4.17	file 1666

AREA Gulf of Maine 6

TIME ZONE Zulu

DEPTH SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
85m					55607	
137m					55789	
						SEA OTTER RECORDER DELAY IN
130					55708	SEA OTTER RECORD BAD →
						SYNCH problem w/ trigger??
						Tommy/Greg looking at it.
						CAL pushed instead of Mark OK now
						FINISH TURN ON TO DOG
						LEG BETWEEN LINES 9 & 10
119					55669	LAST SHOT LINE 9
100						FIRST SHOT LINE 10
110					55616	
						BEGIN TURN OFF DOG LEG
121					55619	
135					55637	
148					55565	END TURN BEGIN LINE 10
157					55555	Seas calm & glassy. Air cold. Light
160					55548	N wind.
155					55557	
140					55533	Tape 99 did not start so missed a few shots
155					55529	lost 0545-0547 missed 6 shots?
157					55488	
153					55490	0620 10° turn to port 0625 50° turn to port
155					55538	
160					55540	
~~165~~					55380	
179					55388	
180					55392	
178					55331	
178					55407	per Brooke on Magi record fixed

SHIP/CRUISE NO./LEG Gyre 85-G-11

CHIEF SCIENTIST Kim Kleygord

LINE START / END	TIME	YYMMDD	CRS/HDG	SRD gm/H_2O	NAVIGATION	SEISMIC SYSTEM file 1751
	0815	Nov 1985		/5.0	43 7.04 69 48.07	line #10 streamer 540 x2
	0830		143.7	4.4/5.4	43 6.17 69 47.21	file 1836
	0845			/5.2		file 1926
	0900		151.5	4.9/5.1	43°04.14 69°45.40	file 2015
	0915					file 2098 @ 0914Z
	0930		162.0	5.3/5.2	43°02.08 69°43.65	file 2193
	0945					file 2287
	1000		167.0	5.1/	42°59.63 69°42.65	file 2382
	1015					file
	1030			4.6	42°57.38 69°41.46	file 2568
	1045			4.5		file 2645
	1100		133.8	3.7/4.6	42°56.0' 69°39.7'	file 2706
	1115			4.6		file 2788 (1118Z)
	1130		132.6	3.6/4.7	42°54.7' 69°37.8'	file 2843
	1145			4.5		file 2908
	1200		136.3	3.6/4.5	42°53.6' 69°36.0'	file 2978
	1211			5.2		
	1215			5.1		file 3050
	1230		146.7	4.1/5.2	42°51.9' 69°34.4'	file 3128
	1245			5.2		file 3203
	1300		146.4	4.7/5.4	42°50.2' 69°32.7'	file 3281
	1315					file 3357
	1330		147	4.0/5.5	42°48.44' 69°31.27'	file 3433
	1345					file 3506
	1358					file 3567
	1400		147	4.0/5.1	42°46.75 69°29.76	file 3580
	1415					file 3656
	1430		147	3.9/5.2	42°45.06' 69°28.27'	file 3728
	1445					file 3799
	1500		141	3.9/5.0	42°43.48' 69°26.81'	file 3870
	1515					file 3940
	1530		147	3.9/5.3	42°41.99' 69°25.27'	file 4011
	1545					file 4082

AREA Gulf of Maine

TIME ZONE Zulu ~~+3~~

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
168					55380	
165					55320	
160					55273	
148					55482	
127m					55549	
123					55538	0932 passed over old OBS site
131m					55274	
137m					55257	0935 – start offline to avoid fishing gear.
138m					55264	~~All quiet – seas calm~~ –
145m					55257	
157m					55298	small seas – wind increasing
158m					55311	still coming back on course
144m					55350	still 0.7 mi. W of course
142m					55595	rolling in beam seas
157m					55411	~~back on course~~
170m					55377	
~~175m~~						on course again
175m					55414	
170m					55382	
174m					55340	
172m					55331	
170m					55276	
168m					55283	CLOSEST APPROACH TO OBS LINE 7 ~~OBS~~ #2
167m					55296	
						GUNS DID NOT SHOOT
172m					55318	
178m					55373	
187m					55305	
190m					55189	
203m					55144	
215m					55152	
222m					55166	
221m					55157	

SHIP/CRUISE NO./LEG GYRE 85-6-11

CHIEF SCIENTIST KIM KLITGORD

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD (GRND/HDG)	NAVIGATION	SEISMIC SYSTEM
10	1600	85[illegible]01	146	3.7/5.4	42°40.43' 69°23.84'	SILE 4152
	1615					FILE 4226
	1624					
	1630		120	3.6/4.9	42°38.92 69°22.32'	FILE 4294
—	1645					FILE 4361
	1700		148	3.9/5.2	42°37.60 69 20.59	FILE 4436
	1706					
	1715					
	1720:54		148.4	4.1/5.6	42°35.89 69°19.18	File 4580
	1745			5.6		
	1800		126.1	3.7/5.0	42 34.27 69 17.54	File 4732
	1815					
	1830		129.5	3.5/4.1	42 33.15 69 15.72	File 4864
	1845					
	1900		130.1	3.6/4.0	42 32.06 69 13.86	File 4990
	1915					
	1930		121.5	3.7/4.5	42 31.06 69 11.91	File 5120
	1945					
	2000:54		122.6	3.8/4.2	42 30.06 69 9.97	File 5250
	2015			4.4		
	2030		121.9	3.9/4.3	9 42 29.17 69° 8.14	File 5376
	2045			4.1		
	2100		118.9	3.5/	42 28.24 69 6.13	File 5507
	2115		127	3.5/	42° 27.7 69°05.0	file 5573
	2130		128	3.5/4.0	42° 27.2 69°04.2	file 5636
	2145		125	3.3/	42° 26.7 69° 03.1	file 5701
	2200		125	3.8/4.3	42° 26.3 69°02.2	file 5767
	2215		128	3.1/4.3	42° 25.7 69°01.2	5835
	2225					
	2230		129	3.7/4.4	42° 25.3 69° 00.3	5919 @ 2235
	2245		126.5	3.5	42° 24.7 68° 59.23	5960

AREA GULF OF MAINE

TIME ZONE Zulu

SWP DEPTH	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
234m					55141	
229m					55184	
						CHANGE COURSE 10° TO PORT TO
						AVOID FISHING VESSEL.
230m					55210	
					[illegible]	
174m					5542A	SLOW .5KNOT FOR FISHING VESSEL
217					55338	14CH tape drive stuck
						14CH going high reel up reels
225					55338	14CH #3 BOT 1722
227					55469	
227					55319	
227					55282	17:51 0.40m/s from OBS #C3
227					55248	
226					55177	
226					55199	
228					55227	
230					55241	
215.4					55247	
206					55261	
222					55251	
226					55363	
225					55551	
226					55814	Beam Seas
235					56236	Rolling 20° Port, 20° Stb and then some
220m					56655	Ridem Cowboy
233m					56032	
220m					55590	
217m					55355	
194m					55259	
[illegible]						Passed site OBS #A-2
224m					55199	
207m					55143	

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST KIM KLITGORD

LINE START / END	TIME	YYMMDD	CRS/HDG	Ground / H_2O SPD	NAVIGATION	SEISMIC SYSTEM
10	2300	85 NOV 01	127	4.1/4.4	42° 24.2 68° 58.3	file 6028
	2315		121	3.3/4.7	42° 23.7 68° 57.3	file 6089 @ 2314 Z
	2330		115	3.0/3.8	42° 23.2 68° 56.4	file 6151
	2345		104	2.5/3.7	42° 23.0 68° 55.4	file 6210
	0000	85 NOV 02	109	2.4/3.5	42° 22.8 68° 54.6	file 6259
	0015	85 NOV 02	104	2.7/3.8	42° 22.6 68° 53.8	dunno
	0030		106	2.3/3.3	42° ~~22.4~~ 68° 53.0	file 6348
	0045		117	2.7/4.0	42° 22.1 68° 52.3	file 6394
	0100		115	2.6/4.2	42° 21.9 68° 51.5	file 6440
	0115					FILE 6485
	0130		116.9	2.5/4.0	42°21.36' 68°49.99'	FILE 6535
	0145					FILE 6583
	0					
-	~~2330~~					
	0157					
	0200		194.6	3.2/	42°20.11' 68°49.44'	FILE 6644
	0206					
	0215					FILE 6710
	0230		226.1	4.2/4.5	42°18.78' 68°50.91'	FILE 6775
	0245					FILE 6838
	0300		218.3	3.2/4.8	42°17.53 68°52.30'	FILE 6898
	0315					FILE 6960
	0330		206.7	2.7/4.2	42°16.15' 68°53.43'	FILE 7015
	0345					FILE 7066
	0400		211.7	3.1/4.1	42°15.02' 68°54.40'	FILE 7120
	0415					FILE 7174
	0430		218.1	3.0/4.0	42°13.82 68°55.58	FILE 7226
	0445					FILE 7282
	0500		221.2	3.1/4.1	42° 12.66 68° 56.81	FILE
	0515			/4.2		
	0533					file 7476 END LINE 10

AREA GULF OF MAINE

TIME ZONE ZULU (LOCAL + 5 = Z)

SWP Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS (Sea Otter analog tape)
~227m	3.5 kHz Bathy getting hard to read due to ship motion				55088	1 7/8 inches/sec
~227m					55043	
~225m					54999	Off course 10° to left due
~227					54971	to traffic.
~220m					54958	Off line .45 mile to left.
~215m					54943	
~205	?				54928	.7 nautical miles to left of line
~215m	?				54908	starting back toward the new
~215m	?				54897	.9 miles from line
~205m					54882	another vessel in the way.
~203m					54869	
179m					54861	TURNING TO WEST TO AVOID
						OR COMPENSATE FOR EXTREMELY
						ROUGH SEAS. JTBD compressed
						morning - c/c to avoid that too
						Sea otter off - pulling it in.
205m						
						Sea Otter aboard
212m					54865	
208m					54884	COMPLETED TURN TO WEST SEAS
211m					54917	ROUGH - STREAMER WILL NOT
214m					54915	GO DOWN, RIDING JUST
206m					54957	BELOW AND SOMETIMES
205m					54902	AT THE SURFACE
197m					54869	
185m					54883	
172m					55330	
178m					55010	
175m					54922	
178m					54885	
					55007	
					55490	END OF LINE 10

EOL 10

SHIP/CRUISE NO./LEG GyRe 85- G-11

CHIEF SCIENTIST K. Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
10eW	0533	85/11/2			42 11.21 68 58.49	2-590 guns off
						End MCS line #10
	0600		213.5	3.6	42°10.05'N 68° 59.66'W	
	0610					only 3.5
	0615					
	0630		213	3.2	42°8.69'N 69° 1.02'W	
	0645					
	0700		214.2	3.3	42° 7.30'N 69° 2.26'W	
	0730		211.2	3.6	42° 6.00'N 69° 3.47'W	
	0800		211.5	3.3	42° 4.60' 69° 4.74' W	
	0830		216.7	3.2	42° 3.28' 69° 6.12' W	
	0900		215.2	3.0	42° 2.07' 69° 7.33'	
	0915					
	0930		291.7	2.0	42° 1.10' 69° 8.64'	
	1000		267.4	3.5	42° 00.9' 69° 10.94'	
	1030		269.6	3.3	42° 00.92' 69° 13.22'	
	1100		265.9	2.7	42° 00.87' 69° 15.25'	
	1130		264.2	3.1	42° 00.77' 69° 17.30'	
	1200		267.8	3.3	42° 00.64' 69° 19.38'	
	1209					
	1210					
	1215			4.3		
	1230		270.0°	3.4 / 4.3	42° 00.6' 69° 21.5'	
	1245			3.7		
	1252					
	1300		283.3	3.3 / 3.8	42° 00.8' 69° 23.16'	

AREA Gulf of Maine

TIME ZONE +5 ZULU

SWP Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
meters						End of Line #10
						airguns being shut off
						because there is very poor
						data with streamer at surface
						will start firing
						again when changing course
						into the seas.
						last SP # 7492
						file # 7476
					54880	Only 3.5 + Magnetometer Fish
145					54874	
135					54855	
140					54896	slowly proceeding to SW
150						with a following sea.
					54767	Fan tail awash and
					54787	having to keep checking
185					54850	to be sure no gear
190					54796	breaks loose.
198m						
200m					54788	
195m					54809	
204m					54860	
~210m					54924	
~195m					54882	
~207m					54864	
						begin shooting line 11; file #12
						is shotpoint # 3 -3
						shotpoint 1 = file 15
207m					54884	
205m					54880	
					54902	
						begin turn to N-S line
202m					55106	

SHIP/CRUISE NO./LEG GYRE-85-G-11

CHIEF SCIENTIST Keitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	GRND H20 SPD	NAVIGATION	SEISMIC SYSTEM
	1315	85-11-02				file 261
	1330		329.	3.0/3.0	42°01.80' 69°25.27'	file 320
	1345					file 376
	1354					
	1400		16.1	2.9/3.3	42°03.10' 69°25.52'	file 426
	1409					
	1415		→			file 476
	1430		15.9	2.5/3.6	42°04.40' 69°25.05'	file 525
	1445					file 573
	1500		15.3	2.4/3.3	42°05.72' 69°24.66'	file 621
	1515					file 668
	1525					
	1530		14.3	2.5/4.0	42°06.90 69°24.34'	file 713
	1545					file 764
	1600		11.9	3.1/3.9	42° 08.2' 69° 23.8'	file 818
	1615			/3.9		file 870
	1630		13.4	3.1/4.0	42° 09.6' 69° 23.4'	file 921
	1645			/3.8		file 976
	1700		011.9	2.9/3.9	42 10.96 69 24.04	file 1028
	1715			/4.1		file 1083
	1730		007.7	2.8/	42 12.42 69 22.67	file 1138
	1745			/4.6		
	1800		009.8	2.8/4.4	42 13.8 69 22.32	file 1243
	1815		~~0258~~	~~/4.0~~	~~42 B88 69 22.32~~	
	1830		12.9	3.0/3.9	42 15.31 69 21.81	
	1845			/3.7		
	1900		6.9	2.5/3.0	42°16.62 69 21.34	file 145-2
	1915			/2.8		
	1930		22.4	2.8/	42° 17.89 69° 20.74	
	2000		17.0	2.7/	42 19.31 69 20.20	
	2015					
	2030		17.9	2.9/4.5	42 20.62 69 19.76	
	2045					

AREA Gulf of Maine

TIME ZONE Zulu

~~SWP~~ DEPTH	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
205m					54916	
~207m?					54923	
NOT READABLE					54995	
						TURN COMPLETED - ON COURSE
NOT READABLE					54986	
						PORT GUN DELAY TO 4 MMS
N.R.					54961	
N.R					54974	
N.R.					54959	
N.R					54948	
N.R.					54943	
						SPEED INCREASE - 5 KNOTS
NR.					55002	
NR.					55024	Weather fairly bad
N.R.					55096	with 20-25 knot winds
N.R.					55070	and 6-8 foot seas to 10'
NR					55048	heading into seas
NR					55058	forecast is more of
↓					55023	the same for next
↓					55063	24 hours
NR					55117	
↓					55006	
↓			118		54926	1803 Box 117 EOT 118
					55964	5 to 10 foot seas
					54997	
					54972	
					55019	
					55017	
					54944	
					54909	200 BZD Reel 115/119
					54969	
					54964	
					55015	

SHIP/CRUISE NO./LEG Gyre 85-G-11

CHIEF SCIENTIST Kim Kristgard

LINE START / END	TIME Zulu	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	2100	85/11/02	24.1	3.2/3.4	42°22.05 69°19.24	file 1869
	2104					started collecting 8 secs data
	2115					file 1923
	2130		017.5	3.0/3.9	42°23.9' 69°18.7	file 1978
	2151					
	2200		018.9	2.9/3.8	42°24.8' 69°18.1'	file 2084
	2230		008.5	3.0/3.8	42°26.3' 69°17.6'	file 2201
	2245			3.2		file 2264
	2300		014.8	3.4/4.0	42°27.9' 69°17.1'	file 2324
	2315			3.6		file 2393
	2330		011.9	3.6/3.6	42°29.6' 69°16.6'	file 2458
	2345			4.2		file 2526
	0000	85-11-03	011.5	3.9/4.2	42°31.4' 69°16.0	file 2590
	0015			4.0		file 2653
	0030		051.9	3.3/3.8	42°32.7' 69°14.7'	file 2712
	0045			3.8		file 2773
	0100		043.0	3.0/3.6	42°33.8' 69°13.2'	file 2835
	0115					file 2898
	0130		043.2	3.7/4.1	42°35.05' 69°11.48'	file 2964
	0132					
	0145					file 3026
	0200		049.6	3.1/3.5	42°36.12' 69°09.84	file 3092
	0215					file 3156
	0230		055.2	3.5/4.1	42°37.27 69°07.81	file 3224
	0245					file 3287
	0300		059.6	3.7/4.5	42°38.24 69°05.61'	file 3356
	0315					file 3425
	0330		050.5	3.3/3.7	42°39.36' 69°03.70'	file 3497
	0340					
	0345					file 3571
	0400		060.2	3.4/3.4	42°40.54' 69°01.92'	file 3636
	0415					file 3697
	0430		050.1	3.9/3.0	42°41.59' 68°00.02'	file 3755

AREA Gulf of Maine

TIME ZONE Zulu

SWP Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
HF					55011	
						8 secs delay starting S.P. 1886
					55037	3.5 KHz depth sound noisy
					55063	
						Turned off 3.5 KHz depth finder
					55074	2117 - change near trace EPC to 8s sweep.
					55042	2205 - change near trace back to 4s sweep.
223m					55011	using 12 KHz depth sounder
228m					55002	
222m					55038	
227m					55076	
230m					55231	
227m					55202	0005 - begin turn onto new
224m					55148	segment of line 11
220m					55182	
220m					55047	
214m					55321	
215m					55384	
202m					55422	
						ON LINE - LINE 11
203m					55470	
200m					55494	
190m					55508	
167m					55567	
172m					55607	
185m					55636	
178m					55654	
166m					55676	CLOSEST APPROACH TO OBS LINE 8 OBS #2 ON
						CATCH UP. REDUCE SPEED .5 KNTS - DFS ✓ NEEDS
166m					55682	
165m					55688	
154m					55689	
146m					55698	

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST KIM KLITGORD

LINE START / END	TIME 3 NOV 85	YYMMDD	CRS/HDG	GRND / H2O SPD	NAVIGATION	SEISMIC SYSTEM 2×540 cu in + 1200m stream
LINE 11	0445Z	851103				file 3810
	0500		61.7	3.1 / 3.7	42°42.50' 68°58.35'	file
	0515			3.0 / 3.2	42° 42.76' 68° 57.45'	file 3929
						all 24 channels working
	0530		51.8	3.1 /	42 43.41 68° 56.73	file 3991
	0545					
	0600		54.6	3.1 / 3.8	42° 44.40 68° 55.03	file 4100
	0615					
	0630		59.8	3.5 / 3.5	42° 45.34 68 53.47	File 4218
	0645					
	0700		59.7	3.0 / 3.5	42° 46.34 68° 51.75	File 4329
	0715					
	0730		099.5	3.7 / 3.3	42° 46.81 68° 49.79	File 4448
	0745					
	0800		102.4	3.0 / 3.9	42 46.61 68° 47.79	File 4568
	0815					
	0830		021.9	2.7 / 4.0	42 47.75 68 46.91	File 466
	0845			3.9		file 4713
	0900		024.9	2.4 / 3.4	42 48.95 6846.07	file 4758
	0915			4.0		file 4805
	0930		032.0	2.7 / 4.0	42° 49.9' 68° 45.1'	file 4852
	0945			4.1		file 4901
	1000		046.4	2.5 / 3.7	42° 51.0' 68.43.9'	file 4953
	1015			4.0		file 5001
	1030		042.9	2.7 / 3.4	42° 51.8' 68° 42.6'	file 5053
	1045			3.6		file 5103
	1100		055.6	2.7 / 3.4	42° 52.7' 68° 41.2'	file 5150
	1115			3.8		file 5193
	1130		056.4	2.5 / 3.7	42° 53.5' 68° 40.0	file 5240
	1145			4.1		file 5283
	1150			4.3		

AREA Gulf of Maine

TIME ZONE Zulu

~~SWP~~ DEPTH	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
146m					55721	12-14 foot seas
148m					55726	heading directly into
145m					55741	seas so not much
						rolling but the bow
						is slamming pretty hard.
141m					55729	weather should calm a
141m					55707	little by tomorrow
232					55751	
110M					55672	
97M					5568X	
138M					55727	
152M					55787	
					55872	
162					56134	turning starboard to avoid boat
					56614	[redacted]?
185m					56459	heading back to line
186m					56280	
196					55655	
208					55572	
210					55605	
206m					55439	
205m					55258	
202m					55171	
242m					55093	
205m					55034	
192m					54942	
200m					54963	
198m					55176	
202m					54983	
195m					54932	
193m					54926	increase speed by 0.5 kt @ 1143
						paper on 12kHz recorder taken
						off - end of roll

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Kim Klitgord

LINE START / END	TIME Z	YYMMDD	CRS/HDG	SPD GND / Hdg	NAVIGATION	SEISMIC SYSTEM 2-540cu in airguns
LINE 11	1200	85-11-03	045.5	2.9 / 4.4	42°54.3' 68°38.5'	file 5341
	1215			/ 4.2		file 5394
	1230		043.9	2.8 / 4.0	42°55.4' 68°37.0'	file 5451
	1245			/ 4.3		file 5503
	1300		048.8	2.9 / 4.3	42°56.2' 68°35.6'	file ~~5561~~ 5556
	1315					file 5613
	1330		049.2	3.4 / 4.4	42°57.17' 68°33.84'	file 5672
	1345					file 5733
	1400		047.3	2.9 / 4.1	42°58.22' 68°32.17'	file 5792
	1415					file 5851
	1428					
	1430		048.5	3.0 / 4.6	42°59.24 68°30.45	file 5911
	1445					file 5972
	1500		060.7	3.1 / 4.5	43°00.20' 68°28.68'	file 6028
	1515					file 6086
	1530		047.6	3.0 / 3.7	43°01.16' 68°27.14'	file 6142
	1545					file 6202
	1600		051.7	3.7 / 4.0	43°02.25' 68°25.50'	file 6261
	1615					file 6321
	1630		065.3	3.2 / 3.7	43°03.03' 68°23.58'	file 6375
	1645		[illegible]			file 6432
	1700		050.9	3.3 / 3.6	43°03.81' 68°21.84'	file
	1715			/ 4.1		file 6588
	1730		042.8	3.3 / 3.2	43° 4.89 68°20.21	file 6616
	1745			/ 3.8		file
	1800	85-11-03			43°5.99'N 68° 18.36'W EOL	file # 6741
						shot # 6730
	1826					2 airguns & Maggie on board
	2030				43°8.88' 68° 14.71'	Streamer & tail buoy on
	2034	c/c c/s ~160°		9		board - gear tied down
						ready to roll -

AREA Gulf of Maine

TIME ZONE Z

~~SWP~~ Depth	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
185m					55091	12kHz started up @ new roll
178m					54996	
173m					54975	
170m					55030	
180m					55158	
186m					55070	
193m					55140	
173m					55105	
180m					55087	
182m					55118	
						JUST NOTICED CH. 20 - BAD on streamer
198m					55141	
169m					55180	
190m					55090	JUST PASSED "N" END OF OBS LINE 8
193m					55129	
193m					55206	
200m					55355	
200m					55314	weather getting a little better 6-8' seas
210m					55363	
210m					55301	20 knot winds
211m					55526	
190m					55315	
					55346	
200m					55451	
					55340	
					55365	END SEISMIC Line # 11
						slow to 2 knots and pulling in maggie, airgun and streamer.
						heading for OBS line #9

SHIP/CRUISE NO./LEG GYRE 85-G-11

CHIEF SCIENTIST Kim Klitgord

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
	0025	4 NOV 85				
	1520	85NOV04				

AREA Gulf of Maine

TIME ZONE +5 Zulu GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						c/c for Woods Hole
						Weather conditions
						are not expected to
						improve for several days
						and present 20-30 knot
						winds w/ 8 to 10 ft seas
						make it impossible to
						shoot an OBS line.
						Arrive Woods Hole