

Seq# 001		Line Name: MGL1408OBS001	NAVIGATION	DATE: 2014-09-18
		Line Brg : 299.9 °	LINE LOGS	JULIAN DAY: 261
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina
DC SOL : -0.7 m	DEPTH SOL : 5325.6 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary		
DC EOL : -21.2 m	DEPTH EOL : 17.3 m	NAVIGATION SYSTEM USED: SeaPath 200		
BSP SOL: 5.1 kts	FEATHER SOL: 76.4 turn	NAVIGATION SYSTEM USED: POSMV		
BSP EOL: 4.8 kts	FEATHER EOL: 00.8 °	GRAVITY METER: BMG-II: used, SN210		
WEATHER	MAX FEATHER: 31.5 °	MAGNETOMETER: GeoMetrics: used		
WIND SOL: NW 3 kts		UTM ZONE 18 North		
WIND EOL: NE21.5 kts	shift hours shift leaders shift hours watch personnel	shift hours watch personnel		
SEAS SOL: calm	16:00 – 04:00 utc => Mike Martello 04:00 – 12:00 utc > K. Damell, R. Davy, A. Becel, T. Blacic	20:00 – 04:00 utc > B. Phrampus, D.Sawyer, J. Hill		
SEAS EOL: #####	04:00 – 16:00 utc => Alan Thompson 12:00 – 20:00 utc > K. Eppe, M. Karl, S. Montelli, M. Hornbach			
SP	UTC	EVENT	COMMENTS	
970	04:55	FNSP		
			VESSEL POSITION	
			Shotpoints	Latitude (N / +) Longitude (W / -)
			970	32° 28' 50.635" -72° 36' 05.990"
			2983	34° 26' 47.856" -76° 52' 26.162"
996	05:35	SOL/FGSP	start of OBS / 2D MCS acquisition	
1078	07:55	OBS	Crossed OBS226	
1153	09:39	OBS	Crossed OBS225	
1219	11:21	OBS	Crossed OBS224	
1285	13:02	OBS	Crossed OBS223	
1351	14:44	OBS	Crossed OBS222	
1416	16:30	OBS	Crossed OBS221	
1483	18:07	OBS	Crossed OBS220	
1547	19:53	OBS	Crossed OBS219	
1613	21:48	OBS	Crossed OBS218	
1678	23:49	OBS	Crossed OBS217	
1684	00:00	Midnight		
1744	01:54	OBS	Crossed OBS216	
1810	04:02	OBS	Crossed OBS215	
1876	06:06	OBS	Crossed OBS214	
1942	07:59	OBS	Crossed OBS213	
2008	09:49	OBS	Crossed OBS212	
2074	11:45	OBS	Crossed OBS211	
2139	13:30	OBS	Crossed OBS210	
2205	15:14	OBS	Crossed OBS209	
2271	16:59	OBS	Crossed OBS208	
2355	19:18	Streamer	Birds 7 8 & 9 unstable – swells causing them to change depth quickly	
2402	20:47	OBS	Crossed OBS207	
2409	21:01	Streamer	Spectra compass data timing out – losing data for all compasses d/t slow shooting speed	
2487	00:00	Midnight		
2500	00:38	OBS	Crossed OBS206	
2599	04:48	OBS	Crossed OBS205	
2696	07:34	OBS	Crossed OBS204	
2794	10:05	OBS	Crossed OBS203	
2892	12:37	OBS	Crossed OBS202	
2983	14:57	EOL	end of line	
		COMPASSES	SP 2483-2606 invalid values due to excessive time > 2 minutes between SP's	
Posnet locations & remarks: good - none - intermittent		acoustics	MGL1408-A.LMN mgl2010.RTCN	
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL
Tailbuoy #2	none	Gun string #2	GOOD	
Tailbuoy #3	none	Gun string #3	GOOD	
Tailbuoy #4	none	Gun string #4	GOOD	
line status:			COMPLETE	

Line Name: **MGL1408MCS002** **NAVIGATION** DATE: 2014-09-20
 Line Brg : **299.9 °** **LINE LOGS** JULIAN DAY: 263

Seq# 002

CLIENT: Donna Schillington - PI SURVEY: ENAM 2D Seismic Mission AREA: Offshore North Carolina
 DC SOL : 21.7 m DEPTH SOL : 17.3 m NAVIGATION SYSTEM USED: C-Nav3050 - Primary
 DC EOL : -1.7 m DEPTH EOL : 5274.9 m NAVIGATION SYSTEM USED: SeaPath 200
 BSP SOL: 4.4 kts FEATHER SOL: 48.6 - turning NAVIGATION SYSTEM USED: POSMV
 BSP EOL: 3.7 kts FEATHER EOL: 04.2 ° GRAVITY METER: BMG-II: used, SN210
 WEATHER MAX FEATHER: 48.6 ° MAGNETOMETER: GeoMetrics: used
 WIND SOL: NNE 21.3 kts UTM ZONE 18 North
 WIND EOL: SW 6.3 kts shift hours shift leaders shift hours watch personnel
 SEAS SOL: 1.0 m 16:00 - 04:00 utc => Mike Martello 04:00 - 12:00 utc > K. Damell, R. Davy, A. Becel, T. Blacic 20:00 - 04:00 utc > B. Phrampus, D.Sawyer, J. Hill
 SEAS EOL: 1.0 m 04:00 - 16:00 utc => Alan Thompson 12:00 - 20:00 utc > K. Epple, M. Karl, S. Montelli, M. Hornbach

SP	UTC	EVENT	COMMENTS	VESSEL POSITION			
1029	17:26	FNSP					
1041	17:30	SOL/FGSP	start of OBS / 2D MCS acquisition				
1050	17:34	OBS	Crossing OBS201				
1447	20:01	Airgun	Turned off 2-1, on 2-5 new volume 6420				
1491	20:17	OBS	Crossing OBS202				
1931	22:59	OBS	Crossing OBS203				
2098	00:00	Midnight					
2372	01:40	OBS	Crossing OBS204				
2812	04:51	OBS	Crossing OBS205				
3140	08:07	XBT	Seq01 T-7				
3253	09:19	OBS	Crossing OBS206				
3424	08:07	XBT	seq03 T-7				
3475	11:35	WB	Crossing WB A01				
3693	13:28	OBS	Crossing OBS207				
3712	13:37	XBT	Seq04 T-5				
3990	15:33	OBS	Crossing OBS404				
4013	15:42	XBT	Seq05 T-5				
4146	16:33	OBS	Crossing OBSB01				
4248	17:11	XBT	Seq06 T-5				
4286	17:24	OBS	Crossing OBS206				
4413	18:09	Streamer	Set streamer to 11m depth d/t swell noise				
4536	18:52	XBT	Seq07 T-5				
4582	19:08	OBS	Crossing OBS209				
4752	20:07	OBS	Crossing WB C01				
4828	20:33	XBT	Seq08 T-5				
4878	20:51	OBS	Crossing OBS210				
5106	22:11	XBT	Seq09 T-5				
5118	22:15	XBT	Seq10 T-5				
5175	22:36	OBS	Crossing OBS211				
5325	23:33	OBS	Crossing WB D01				
5381	23:54	XBT	Seq11 T-5				
5396	00:00	Midnight					
5471	00:29	OBS	Crossing OBS212				
5670	01:45	XBT	Seq12 T-5				
5767	02:22	OBS	Crossing OBS213				
5942	03:53	XBT	Seq13 T-5				
6064	04:24	OBS	Crossing OBS214				
6220	05:03	XBT	Seq14 T-5				
6360	05:50	OBS	Crossing OBS215				
6373	05:55	EM122	Multibeam bad centerbeam depths				
6409	06:06	EM122	Multibeam bad centerbeam depths, SIS power down again				
6500	06:39	XBT	Seq15 T-5				
6656	07:34	OBS	Crossing OBS216				
6780	8:17	XBT	Seq16 T-5				
6953	09:14	OBS	Crossing OBS217				
7060	09:55	XBT	Seq17 T-5				
7249	11:00	OBS	Crossing OBS218				
7334	11:29	XBT	Seq18 T-5				

FNSP LSP	VESSEL POSITION		
	Shotpoints	Latitude (N / +)	Longitude (W / -)
	1029	34° 27' 15.397"	-76° 53' 43.815"
	9598	32° 36' 02.317"	-72° 50' 53.916"

NAVIGATION OFFSET APPLIED	
NRP - Stern	29.5m
NRP - COS	216.0m
NRP - CNG	523.50m
COS - CNG	307.50m
NRP - CMP	369.75m

Acquisition parameters			
SP spacing:	rec length	source volume	Source dpth / strrm depth
50	18 seconds	6600in3	9m / 9m

sp. 3093 strm depth now 11.0m
 sp. 3325 strm depth now 10.0m
 sp. 3485 strm depth now 9.0 m
 sp. 4413 strm depth now 11.0m
 Sp 4996 strm depth now 9.0m

7545	12:42	OBS	Crossing OBS219	
7616	13:07	XBT	Seq19 T-5	
7835	14:24	OBS	Crossing OBS220	
7941	15:00	XBT	Seq20 T-5	
8131	16:06	OBS	Crossing OBS221	
8180	16:23	XBT	Seq21 T-5	
8429	17:51	OBS	Crossing OBS222	
8462	18:02	XBT	Seq 22 T-5	
8736	19:32	OBS	Crossing OBS223	
8736	19:36	XBT	Seq 23 T-5	
9020	21:14	OBS	Crossing OBS224	
9022	21:15	XBT	Seq 24 T-5	
9299	22:50	XBT	Seq 25 T-5	
9316	22:56	OBS	Crossing OBS225	
9496	00:00	Midnight		
	00:25	Airgun	Airleak found on deck	
9583	00:30	XBT	Seq 26 XCTD-1	
9598	00:36	EOL	Line aborted d/t air leak	
Posnet locations & remarks: good - none - intermittent		acoustics		
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL
Tailbuoy #2	none	Gun string #2	GOOD	
Tailbuoy #3	none	Gun string #3	GOOD	
Tailbuoy #4	none	Gun string #4	GOOD	

MGL1408-A.LMN	mgl2010.RTCN
line status:	COMPLETE

Seq# 003		Line Name: MGL1408OBS003	NAVIGATION	DATE: 2014-09-23	Lamont-Doherty Earth Observatory	
		Line Brg : 22.679 °	LINE LOGS	JULIAN DAY: 266	COLUMBIA UNIVERSITY EARTH INSTITUTE	
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina		
DC SOL : 0.4 m	DEPTH SOL : 4891.0 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : 1.4 m	DEPTH EOL : 4036.3 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 3.3 kts	FEATHER SOL: 26.9 °	NAVIGATION SYSTEM USED: POSMW				
BSP EOL: 5.3 kts	FEATHER EOL: 05.1 °	GRAVITY METER: BMG-II: used, SN210				
WEATHER	MAX FEATHER: -18.8 °	MAGNETOMETER: GeoMetrics: used				
WIND SOL: N 5.8 kts	UTM ZONE 18 North					
WIND EOL: S 19.4 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours	watch personnel
SEAS SOL: 1m	16:00 – 04:00 utc =>	Mike Martello	04:00 – 12:00 utc >	K. Damell, R. Davy, A. Becel, T. Blacic	20:00 – 04:00 utc >	B. Phrampus, D.Sawyer, J. Hill
SEAS EOL: 2m	04:00 – 16:00 utc =>	Alan Thompson	12:00 – 20:00 utc >	K. Eppe, M. Karl, S. Montelli, M. Hornbach		
SP	UTC	EVENT	COMMENTS			
0992	15:10	FNSP				
0997	15:20	SOL/FGSP	start of OBS / 2D MCS acquisition (Start of line with 3 gun strings shooting 30 guns source vol – 5490cu in.)			
1032	16:26	Airgun	Multiple SP 1032 – airguns on internal cycle 20seconds to warm up gunstring 2			
1033	16:28	Airgun	First full volume (6600cu in) shot. all 4 gun strings deployed			
1041	16:41	OBS	Crossing OBS 301			
1083	17:48	MMO	Power down for Sea Turtle			
1102	18:19	MMO	Return to full power			
1106	18:26	OBS	Crossing OBS 220			
1176	20:15	OBS	Crossing OBS 302			
1247	22:04	OBS	Crossing OBS 303			
1318	23:53	OBS	Crossing OBS 304			
1323	00:00	Midnight				
1388	01:40	OBS	Crossing OBS 305			
1459	03:25	OBS	Crossing OBS 306			
1529	05:10	OBS	Crossing OBS 307			
1600	06:58	OBS	Crossing OBS 308			
1663	08:32	Offline	DC: -39.1m – bridge takes steering, max distance offline: -100m			
1670	08:43	OBS	Crossing OBS 309			
1741	10:31	OBS	Crossing OBS 310			
1811	12:18	OBS	Crossing OBS 311			
1882	14:05	OBS	Crossing OBS 312			
1952	15:53	OBS	Crossing OBS 313			
2023	17:49	OBS	Crossing OBS 314			
2093	19:56	OBS	Crossing OBS 315			
2159	22:02	OBS	Crossing OBS 316			
2224	00:00	Midnight				
2237	00:22	OBS	Crossing OBS 317			
2315	02:29	OBS	Crossing OBS 318			
2393	04:25	OBS	Crossing OBS 319			
2471	06:23	OBS	Crossing OBS 320			
	06:26	EM122	SIS restarted, new cruise folder made – MGL1408C			
2549	08:20	OBS	Crossing OBS 322			
2625	10:10	EOL				
		EOL				
Posnet locations & remarks: good - none - intermittent		acoustics				
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL		
Tailbuoy #2	none	Gun string #2	GOOD			
Tailbuoy #3	none	Gun string #3	GOOD			
Tailbuoy #4	none	Gun string #4	GOOD			
				MGL1408-A.LMN		
				mg12010.RTCN		
				line status: COMPLETE		

VESSEL POSITION			
Shotpoints	Latitude (N / +)	Longitude (W / -)	
992	32° 46' 58.200"	-73° 47' 06.535"	
2625	35° 49' 45.759"	-72° 13' 05.709"	

NAVIGATION OFFSET APPLIED	
NRP - Stern	29.5m
NRP – COS	216.0m
NRP – CNG	523.50m
COS – CNG	307.50m
NRP – CMP	369.75m

Acquisition parameters			
SP spacing:	rec length	source volume	Source dpth / strrm depth
225	18 seconds	6600in3	9m / 9m

Seq# 004		Line Name: MGL1408MCS003	NAVIGATION	DATE: 2014-09-25	Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY EARTH INSTITUTE	
		Line Brg : 203.6 °	LINE LOGS	JULIAN DAY: 268		
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina		
DC SOL : -23.2 m	DEPTH SOL : 4036.2 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : -45.0 m	DEPTH EOL : 4892.8 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 3.7 kts	FEATHER SOL: 09.8 °	NAVIGATION SYSTEM USED: POSMV				
BSP EOL: 4.8 kts	FEATHER EOL: -02.0 °	GRAVITY METER: BMG-II: used, SN210				
WEATHER	MAX FEATHER: 14.9 °	MAGNETOMETER: GeoMetrics: used				
WIND SOL: S 17.3 kts		UTM ZONE 18 North				
WIND EOL: NW 9.8 kts						
SEAS SOL: 2.0 m	16:00 - 04:00 utc => Mike Martello	04:00 - 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 - 04:00 utc >	B. Phrampus, D. Sawyer, J. Hill	
SEAS EOL: 0-1	04:00 - 16:00 utc => Alan Thompson	12:00 - 20:00 utc >	K. Epple, M. Karl, S. Montelli, M. Hornbach			
SP	UTC	EVENT	COMMENTS			
970	12:58	FNPS				
994	13:08	SOL/FGSP	start of OBS / 2D MCS acquisition			
1268	15:02	XBT	XBT-T5 Seq 27			
1344	15:31	OBS	Crossing OBS321			
1695	17:35	OBS	Crossing OBS320			
1745	17:52	XBT	XBT-T5 Seq 28			
2047	19:35	OBS	Crossing OBS319			
2245	20:42	XBT	XBT-T5 Seq 29 Failed			
2250	20:44	XBT	XBT-T5 Seq 30			
2398	21:35	OBS	Crossing OBS318			
2722	23:24	XBT	XBT-T5 Seq 31			
2749	23:33	OBS	Crossing OBS317			
2827	00:00	Midnight				
3101	01:37	OBS	Crossing OBS316			
3234	02:25	XBT	XBT-T5 Seq 32			
3394	03:24	OBS	Crossing OBS315			
3711	05:28	OBS	Crossing OBS314			
3719	05:31	XBT	XBT-T5 Seq 33			
4029	07:40	OBS	Crossing OBS313			
4217	08:57	XBT	XBT-T5 Seq 34			
4346	09:48	OBS	Crossing OBS312			
4664	11:48	OBS	Crossing OBS311			
4710	12:05	XBT	XBT-T5 Seq 35			
4981	13:39	OBS	Crossing OBS310			
5208	14:54	XBT	XBT-T5 Seq 36			
5299	15:25	OBS	Crossing OBS309			
5616	17:12	OBS	Crossing OBS308			
5703	17:42	XBT	XBT-T5 Seq 37			
5932	19:03	XBT	Crossing OBS307			
6200	20:40	XBT	XBT-T5 Seq 38			
6250	20:59	OBS	Crossing OBS306			
6568	203:03	OBS	Crossing OBS305			
6690	23:56	XBT	XBT-T5 Seq39			
6698	00:00	Midnight				
6885	01:22	OBS	Crossing OBS304			
7196	03:43	XBT	XBT-T5 Seq 40			
7203	03:46	OBS	Crossing OBS303			
7521	05:56	OBS	Crossing OBS302			
7698	07:10	XBT	XBT-T5 Seq 41			
7838	08:05	OBS	Crossing OBS220			
8133	09:52	OBX	Crossing OBS301			
8182	10:09	XBT	XBT-T5 Seq42			
8395	11:21	EOL	EOL			
Posnet locations & remarks: good - none - intermittent		acoustics				
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL		
Tailbuoy #2	none	Gun string #2	GOOD			
Tailbuoy #3	none	Gun string #3	GOOD			
Tailbuoy #4	none	Gun string #4	GOOD			
				MGL1408-A.LMN		
				line status: COMPLETE		
				mgl2010.RTCN		



VESSEL POSITION			
Shotpoints	Latitude (N / +)	Longitude (W / -)	
970	35° 50' 20.960"	-72° 12' 45.913"	
8395	32° 45' 38.741"	-73° 47' 43.565"	
NAVIGATION OFFSET APPLIED			
NRP - Stern	29.5m		
NRP - COS	216.0m		
NRP - CNG	523.50m		
COS - CNG	307.50m		
NRP - CMP	369.75m		
Acquisition parameters			
SP spacing:	rec length	source volume	Source dpth / strrm depth
50	18 seconds	6600in3	9m / 9m

Seq# 005		Line Name: MGL1408MCS031	NAVIGATION	DATE: 2014-09-27	
		Line Brg : 201.7 °	LINE LOGS	JULIAN DAY: 270	
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina	
DC SOL : 1.6 m	DEPTH SOL : 4941.6 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : 155.9 m	DEPTH EOL : 4936.1 m	NAVIGATION SYSTEM USED: SeaPath 200			
BSP SOL: 3.7 kts	FEATHER SOL: -04.3 °	NAVIGATION SYSTEM USED: POSMV			
BSP EOL: 4.6 kts	FEATHER EOL: 01.5 °	GRAVITY METER: BMG-II: used, SN210			
WEATHER	MAX FEATHER: -04.7 °	MAGNETOMETER: GeoMetrics: used			
WIND SOL: E 12.7 kts	UTM ZONE 18 North				
WIND EOL: NE 8 kts kts	shift hours	shift leaders	shift hours	watch personnel	
SEAS SOL: 0-1 m	16:00 – 04:00 utc =>	Mike Martello	04:00 – 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 – 04:00 utc >
SEAS EOL: 0.5 m	04:00 – 16:00 utc =>	Alan Thompson	12:00 – 20:00 utc >	K. Eppler, M. Karl, S. Montelli, M. Hornbach	B. Phrampus, D.Sawyer, J. Hill
SP	UTC	EVENT	<i>COMMENTS</i>		
1256	12:38	FNSP			
1265	14:42	SOL/FGSP	start of OBS / 2D MCS acquisition		
1298	12:53	XBT	XBT-T5 Seq 43		
1349	13:10	Maggie	Recover maggie to check tow for sargassum		
1436	13:39	Maggie	Maggie in place		
1899	16:17	XBT	XBT-T5 Seq 44		
2138	17:42	EOL			
		VESSEL POSITION			
			Shotpoints	Latitude (N / +)	Longitude (W / -)
		FNSP	1256	32° 41' 21.467"	-73° 49' 44.098"
		LSP	2138	32° 19' 12.812"	-74° 00' 13.198"
		NAVIGATION OFFSET APPLIED			
		NRP - Stern	29.5m		
		NRP - COS	216.0m		
		NRP - CNG	523.50m		
		COS - CNG	307.50m		
		NRP - CMP	369.75m		
		Acquisition parameters			
	SP spacing:	rec length	source volume	Source dpth / strrm	depth
	50	18 seconds	3300cuin		6m / 6m
Posnet locations & remarks: good - none - intermittent		acoustics			
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL	
Tailbuoy #2	none	Gun string #2	GOOD		
Tailbuoy #3	none	Gun string #3	GOOD		
Tailbuoy #4	none	Gun string #4	GOOD		
			MGL1408-A.LMN	mgl2010.RTCN	
			line status:	COMPLETE	



Seq# 006		Line Name: MGL1408MCS032		NAVIGATION	DATE: 2014-09-27		
		Line Brg : 293.347 °		LINE LOGS	JULIAN DAY: 270		
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina		
DC SOL : -5.8 m	DEPTH SOL : 4893.6 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary					
DC EOL : 6.5 m	DEPTH EOL : 3491.5 m	NAVIGATION SYSTEM USED: SeaPath 200					
BSP SOL: 4.9 kts	FEATHER SOL: 47.9 °	NAVIGATION SYSTEM USED: POSMV					
BSP EOL: 3.9 kts	FEATHER EOL: 08.2 °	GRAVITY METER: BMG-II: used, SN210					
WEATHER	MAX FEATHER: -26.0 °	MAGNETOMETER: GeoMetrics: used					
WIND SOL: NE 12 kts		UTM ZONE 18 North					
WIND EOL: NE 13.4 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours	watch personnel	
SEAS SOL: 0.5 m	16:00 – 04:00 utc =>	Mike Martello	04:00 – 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 – 04:00 utc >	B. Phrampus, D.Sawyer, J. Hill	
SEAS EOL: 1.0 m	04:00 – 16:00 utc =>	Alan Thompson	12:00 – 20:00 utc >	K. Epple, M. Karl, S. Montelli, M. Hornbach			
SP	UTC	EVENT	COMMENTS				
1111	18:25	FNSP					
1112	18:25	SOL/FGSP					
1380	19:57	XBT	XBT-T5 Seq45				
	20:54	steering	SRI unable to hold vessel online d/t currents				
2103	00:00	Midnight					
2140	00:12	XBT	XBT-T5 Seq46				
2911	04:32	XBT	XBT-T5 Seq47				
3201	06:11	compasses	compasses not updating				
	06:31	streamer	picking up leadin to trouble shoot problem off soft tow				
3280	06:38	compasses	compass data back				
3298	06:44	streamer	soft tow in place				
3656	08:50	XBT	XBT-T5 Seq48				
	10:22	steering	SRI unable to hold vessel online d/t currents				
4045	11:19	EOL					
				VESSEL POSITION			
				Shotpoints	Latitude (N / +)	Longitude (W / -)	
				1111	32° 19' 33.826"	-74° 03' 51.878"	
				4045	32° 50' 29.677"	-75° 30' 12.092"	
				NAVIGATION OFFSET APPLIED			
				NRP - Stern	29.5m		
				NRP - COS	216.0m		
				NRP - CNG	523.50m		
				COS - CNG	307.50m		
				NRP - CMP	369.75m		
				Acquisition parameters			
				SP spacing:	rec length	source volume	
				50	18 seconds	3300cuin	
						Source dpth / strrm depth	
						6m / 6m	
Posnet locations & remarks: good - none - intermittent		acoustics					
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL			
Tailbuoy #2	none	Gun string #2	GOOD				
Tailbuoy #3	none	Gun string #3	GOOD				
Tailbuoy #4	none	Gun string #4	GOOD				
				MGL1408-A.LMN	mgl2010.RTCN		
				line status:	COMPLETE		



Seq# 007		Line Name: MGL1408MCS033		<u>NAVIGATION</u>		DATE: 2014-09-28		 			
		Line Brg : 292.5 °		<u>LINE LOGS</u>		JULIAN DAY: 271					
CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina					
DC SOL : 14.2 m	DEPTH SOL : 3472.5 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary									
DC EOL : -40.7 m	DEPTH EOL : 2663.1 m	NAVIGATION SYSTEM USED: SeaPath 200									
BSP SOL: 4.1 kts	FEATHER SOL: 03.4 °	NAVIGATION SYSTEM USED: POSMV									
BSP EOL: 2.9 kts	FEATHER EOL: 17.9 °	GRAVITY METER: BMG-II: used, SN210									
WEATHER	MAX FEATHER: 17.9 °	MAGNETOMETER: GeoMetrics: used									
WIND SOL: NE 13.4 kts		UTM ZONE 18 North									
WIND EOL: NE 41 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours	watch personnel					
SEAS SOL: 1.0 m	16:00 – 04:00 utc =>	Mike Martello	04:00 – 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 – 04:00 utc >	B. Phrampus, D.Sawyer, J. Hill					
SEAS EOL: 1.0 m	04:00 – 16:00 utc =>	Alan Thompson	12:00 – 20:00 utc >	K. Epple, M. Karl, S. Montelli, M. Hornbach							
SP	UTC	EVENT	COMMENTS								
1022	11:24	FGSP/SOL									
1603	13:15	XBT	XBT-T5 seq 49								
2605	16:43	XBT	XBT-T5 seq 50								
2817	17:34	EOL	End of line d/t line planning								
				VESSEL POSITION							
				Shotpoints		Latitude (N / +)		Longitude (W / -)			
				1022		32° 50' 36.531"		-75° 30' 30.884"			
				2817		32° 59' 50.532"		-75° 57' 08.280"			
				NAVIGATION OFFSET APPLIED							
				NRP - Stern		29.5m					
				NRP - COS		216.0m					
				NRP - CNG		523.50m					
				COS - CNG		307.50m					
				NRP - CMP		369.75m					
				Acquisition parameters							
				SP spacing:		rec length		source volume		Source dpth / strrm depth	
				25		9 seconds		3300cuin		6m / 6m	
Posnet locations & remarks: good - none - intermittent			acoustics								
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL							
Tailbuoy #2	none	Gun string #2	GOOD								
Tailbuoy #3	none	Gun string #3	GOOD								
Tailbuoy #4	none	Gun string #4	GOOD								
				MGL1408-A.LMN		mgl2010.RTCN					
				line status:		COMPLETE					



Seq# 008		Line Name: MGL1408MCS034	NAVIGATION	DATE: 2014-09-28	Lamont-Doherty Earth Observatory	
		Line Brg : 289.890 °	LINE LOGS	JULIAN DAY: 271	COLUMBIA UNIVERSITY EARTH INSTITUTE	
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina		
DC SOL : -75.4 m	DEPTH SOL : 2659.5 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : -74.1 m	DEPTH EOL : 387.7 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 3.0 kts	FEATHER SOL: 16.3 °	NAVIGATION SYSTEM USED: POSMV				
BSP EOL: 2.9 kts	FEATHER EOL: 23.0 °	GRAVITY METER: BMG-II: used, SN210				
WEATHER	MAX FEATHER: 35.4 °	MAGNETOMETER: GeoMetrics: used				
WIND SOL: NE 14 kts	UTM ZONE 18 North					
WIND EOL: NE 10.2 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours	watch personnel
SEAS SOL: 1.0 m	16:00 – 04:00 utc =>	Mike Martello	04:00 – 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 – 04:00 utc >	B. Phrampus, D.Sawyer, J. Hill
SEAS EOL: 1.0 m	04:00 – 16:00 utc =>	Alan Thompson	12:00 – 20:00 utc >	K. Eppele, M. Karl, S. Montelli, M. Hornbach		
SP	UTC	EVENT	COMMENTS			
1020	17:38	FGSP/SOL				
1598	20:30	XBT	XBT-T5 Seq51			
1997	22:54	XBT	XBT-T5 Seq52			
2186	00:00	Midnight				
2274	00:27	XBT	XBT-T5 Seq53			
2549	02:02	XBT	XBT-T5 Seq54			
2822	03:46	XBT	XBT-T5 Seq55			
3099	06:03	XBT	XBT-T7 Seq56			
3372	08:15	XBT	XBT-T7 Seq57			
3649	10:04	XBT	XBT-T7 Seq 58			
3927	11:37	XBT	XBT-T7 Seq 59			
4014	12:04	tailbuoy	operational now			
4264	13:17	XBT	XBT-T7 Seq 60			
4430	14:02	EOL				
			VESSEL POSITION			
			Shotpoints			
			Latitude (N / +) Longitude (W / -)			
			FSP 1020 32° 59' 53.239" -75° 57' 21.004"			
			LSP 4430 33° 15' 23.840" -76° 48' 58.089"			
			NAVIGATION OFFSET APPLIED			
			NRP - Stern 29.5m			
			NRP - COS 216.0m			
			NRP - CNG 523.50m			
			COS - CNG 307.50m			
			NRP - CMP 369.75m			
			Acquisition parameters			
			SP spacing: 25 rec length 9 seconds source volume 3300cuin Source dpth / strrm depth 6m / 6m			
Posnet locations & remarks: good - none - intermittent		acoustics				
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL		
Tailbuoy #2	none	Gun string #2	GOOD			
Tailbuoy #3	none	Gun string #3	GOOD			
Tailbuoy #4	none	Gun string #4	GOOD			
		MGL1408-A.LMN mgl2010.RTCN				
		line status: COMPLETE				

Seq# 009		Line Name: MGL1408MCS035		NAVIGATION		DATE: 2014-09-29					
		Line Brg : 088.4 °		LINE LOGS		JULIAN DAY: 272					
CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina					
DC SOL : 538.0 m		DEPTH SOL : 454.4 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary							
DC EOL : -3.4 m		DEPTH EOL : 1332.4 m		NAVIGATION SYSTEM USED: SeaPath 200							
BSP SOL: 6.7 kts		FEATHER SOL: n/a		NAVIGATION SYSTEM USED: POSMV							
BSP EOL: 6.9 kts		FEATHER EOL: -16.5 °		GRAVITY METER: BMG-II: used, SN210							
WEATHER		MAX FEATHER: -96 - turn		MAGNETOMETER: GeoMetrics: used							
WIND SOL: NE 15.6 kts				UTM ZONE 18 North							
WIND EOL: NNE 6 kts											
SEAS SOL: 1.0 m		16:00 – 04:00 utc => Mike Martello		04:00 – 12:00 utc >		K. Darnell, R. Davy, A. Becel, T. Blacic		20:00 – 04:00 utc > B. Phrampus, D.Sawyer, J. Hill			
SEAS EOL: 1.0 m		04:00 – 16:00 utc => Alan Thompson		12:00 – 20:00 utc >		K. Epple, M. Karl, S. Montelli, M. Hornbach					
SP			UTC			EVENT			COMMENTS		
1154			15:20			FSP			VESSEL POSITION		
1247			15:39			FGSP/SOL					
2418			19:12			Multibeam EM122 Offline to run BIST test					
2475			19:22			Multibeam EM122 online. BIST test passed					
2706			20:03			EOL			NAVIGATION OFFSET APPLIED		
						NRP - Stern			29.5m		
						NRP - COS			216.0m		
						NRP - CNG			523.50m		
						COS - CNG			307.50m		
						NRP - CMP			369.75m		
									Acquisition parameters		
SP spacing:		rec length		source volume		Source dpth / strrm		depth			
37.5		9 seconds		3300cuin		6m / 6m					
Posnet locations & remarks: good - none - intermittent				acoustics							
Tailbuoy #1		none		Gun string #1		GOOD		OPERATIONAL			
Tailbuoy #2		none		Gun string #2		GOOD					
Tailbuoy #3		none		Gun string #3		GOOD					
Tailbuoy #4		Good		Gun string #4		GOOD					
				MGL1408-A.LMN							
				mg12010.RTCN							
				line status:				COMPLETE			

Seq# 011		Line Name: MGL1408MCS041	NAVIGATION		DATE: 2014-09-30	
		Line Brg : 118.754 °	LINE LOGS		JULIAN DAY: 273	
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina	
DC SOL : 6.0 m	DEPTH SOL : 2545.8 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : 38.7 m	DEPTH EOL : 3353.3 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 2.8 kts	FEATHER SOL: -07.5 °	NAVIGATION SYSTEM USED: POSMV				
BSP EOL: 4.7 kts	FEATHER EOL: -07.3 °	GRAVITY METER: BMG-II: used, SN210				
WEATHER	MAX FEATHER: -30.2 °	MAGNETOMETER: GeoMetrics: used				
WIND SOL: NE 10 kts			UTM ZONE 18 North			
WIND EOL: N 7.8 kts	<u>shift hours</u>	<u>shift leaders</u>	<u>shift hours</u>	<u>watch personnel</u>	<u>shift hours</u>	
SEAS SOL: 1.0 m	16:00 – 04:00 utc =>	Mike Martello	04:00 – 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 – 04:00 utc >	
SEAS EOL: 1.0 m	04:00 – 16:00 utc =>	Alan Thompson	12:00 – 20:00 utc >	K. Epple, M. Karl, S. Montelli, M. Hornbach	B. Phrampus, D.Sawyer, J. Hill	
SP	UTC	EVENT	COMMENTS			
1111	20:55	FGSP/SOL				
1229	21:59	XBT	XBT-T5 Seq061			
1237	22:03	XBT	XBT-T5 Seq062			
1465	00:00	Midnight				
1776	02:09	XBT	XBT-T5 Seq063			
2200	04:36	EOL				
			VESSEL POSITION			
			Shotpoints	Latitude (N / +)	Longitude (W / -)	
			FSP	1111	35° 28' 04.180" -74° 26' 11.239"	
			LSP	2200	35° 13' 48.370" -73° 54' 44.651"	
			NAVIGATION OFFSET APPLIED			
			NRP - Stern	29.5m		
			NRP - COS	216.0m		
			NRP - CNG	523.50m		
			COS - CNG	307.50m		
			NRP - CMP	369.75m		
			Acquisition parameters			
SP spacing:		rec length	source volume	Source dpth / strrm depth		
50		18	3300culn	6m/6m		
Posnet locations & remarks: good - none - intermittent		<u>acoustics</u>				
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL		
Tailbuoy #2	none	Gun string #2	GOOD			
Tailbuoy #3	none	Gun string #3	GOOD			
Tailbuoy #4	Good	Gun string #4	GOOD			
MGL1408-A.LMN		mgl2010.RTCN				
line status:		COMPLETE				

Seq# 012		Line Name: MGL1408MCS042	NAVIGATION	DATE: 2014-10-01		
		Line Brg : 209.8 °	LINE LOGS	JULIAN DAY: 274		
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina		
DC SOL : -19.4 m	DEPTH SOL : 3350.0 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : 30.0 m	DEPTH EOL : 3624.0 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 4.2 kts	FEATHER SOL: 64.3 (turn)	NAVIGATION SYSTEM USED: POSMW				
BSP EOL: 4.1 kts	FEATHER EOL: -07.1 °	GRAVITY METER: BMG-II: used, SN210				
WEATHER	MAX FEATHER: 64.8 – turn	MAGNETOMETER: GeoMetrics: used				
WIND SOL: N 12.7 kts	UTM ZONE 18 North					
WIND EOL: N 14 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours	watch personnel
SEAS SOL: 1.0 m	16:00 – 04:00 utc =>	Mike Martello	04:00 – 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 – 04:00 utc >	B. Phrampus, D.Sawyer, J. Hill
SEAS EOL: 1.0 m	04:00 – 16:00 utc =>	Alan Thompson	12:00 – 20:00 utc >	K. Eppele, M. Karl, S. Montelli, M. Hornbach		
SP	UTC	EVENT	COMMENTS			
1045	05:01	FNSP				
1102	05:23	FGSP/SOL				
1181	05:55	XBT	T-5 XBT Seq 64			
1528	08:10	OBS	Crossing WB_D05B			
1570	08:26	XBT	T-5 XBT Seq 65			
1923	10:36	XBT	T-5 XBT Seq 66			
2295	12:57	XBT	T-5 XBT Seq 67			
2311	13:03	TSG	TSG offline for maintenance			
2356	13:21	OBS	Crossing WB D04			
2419	13:45	TSG	TSG online			
2652	15:14	TSG	TSG is up			
2664	15:19	XBT	T-5 XBT Seq 68			
3037	17:47	XBT	T-5 XBT Seq 69			
3209	18:56	OBS	Crossing WB_003			
3408	20:15	XBT	T-5 XBT Seq 70			
3612	21:37	Turn	Begin stbd turn			
3618	21:39	EOL				
			VESSEL POSITION			
			Shotpoints	Latitude (N / +)	Longitude (W / -)	
			FNSP	1045	35° 13' 48.370" 73° 54' 44.651"	
			LSP	3618	34° 11' 41.144" -74° 36' 01.867"	
			NAVIGATION OFFSET APPLIED			
			NRP - Stern	29.5m		
			NRP - COS	216.0m		
			NRP - CNG	523.50m		
			COS - CNG	307.50m		
			NRP - CMP	369.75m		
			Acquisition parameters			
			SP spacing:	rec length	source volume	Source dpth / strrm depth
			50	18	3300culn	6m/6m
Posnet locations & remarks: good - none - intermittent		acoustics				
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL		
Tailbuoy #2	none	Gun string #2	GOOD			
Tailbuoy #3	none	Gun string #3	GOOD			
Tailbuoy #4	Good	Gun string #4	GOOD			
				MGL1408-A.LMN	mgl2010.RTCN	
				line status:	COMPLETE	

Seq# 013	Line Name:	MGL1408OBS04B	NAVIGATION		DATE:	2014-10-02	 				
	Line Brg :	8.183 °	LINE LOGS		JULIAN DAY:	275					
	CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission					AREA: Offshore North Carolina		
DC SOL : -9.0 m		DEPTH SOL : 3285.7 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary							
DC EOL : 0.1 m		DEPTH EOL : 1991.5 m		NAVIGATION SYSTEM USED: SeaPath 200							
BSP SOL: 6.6 kts		FEATHER SOL: 60.4 (turn)		NAVIGATION SYSTEM USED: POSMV							
BSP EOL: 6.2 kts		FEATHER EOL: -00.7 °		GRAVITY METER: BMG-II: used, SN210							
WEATHER		MAX FEATHER: 60.4 (turn)		MAGNETOMETER: GeoMetrics: used							
WIND SOL: N 14 kts					UTM ZONE 18 North						
WIND EOL: N 18 kts		shift hours		shift leaders		shift hours		watch personnel			
SEAS SOL: 1.0 m		16:00 - 04:00 utc => Mike Martello		04:00 - 12:00 utc >		K. Darnell, R. Davy, A. Becel, T. Blacic		20:00 - 04:00 utc > B. Phrampus, D.Sawyer, J. Hill			
SEAS EOL: 2.0 m		04:00 - 16:00 utc => Alan Thompson		12:00 - 20:00 utc >		K. Eppele, M. Karl, S. Montelli, M. Hornbach					
SP	UTC	EVENT	COMMENTS								
			VESSEL POSITION								
1024	01:26	FGSP/SOL			Shotpoints		Latitude (N / +)		Longitude (W / -)		
1165	04:09	OBS	Crossing OBS409 @ SP1165		FNSP	1024	34° 20'	07.088"	-74° 50'	02.299"	
1263	05:48	OBS	Crossing OBS411 @ SP1263		LSP	2022	36° 20'	17.138"	-74° 28'	39.810"	
	06:51	NAV	Seapath drop out of Spectra		NAVIGATION OFFSET APPLIED						
	06:57	NAV	Reset Seapath computer		NRP - Stern 29.5m						
1330	06:58	multibeam	EM122 Stop		NRP - COS 216.0m						
	07:04	multibeam	Restart SIS program		NRP - CNG 523.50m						
	07:05	multibeam	EM122 Operational		COS - CNG 307.50m						
1360	07:29	OBS	Crossing OBS413		NRP - CMP 369.75m						
1458	09:18	OBS	Crossing OBS 415								
1523	10:32	OBS	Crossing WB A05								
1542	10:54	OBS	Crossing OBS 417								
1622	12:30	OBS	Crossing OBS 419								
1629	12:39	MMO	Power down to mitigation gun for MMO sighting								
1640	12:54	MMO	Last MIT shot location, powered back up								
1704	14:19	OBS	Crossing OBS 105								
1793	16:18	OBS	Crossing OBS420								
1838	17:14	MMO	Power down to mitigation gun for MMO sighting								
1860	17:43	MMO	Last MIT shot location, powered back up								
1881	1810	OBS	Crossing OBS 421								
1977	20:05	OBS	Crossing OBS422								
2020	20:56	Turn	Begin turn to port								
2022	20:58	EOL									
						Acquisition parameters					
			SP spacing:			rec length	source volume	Source dpth / strrm	depth		
			225			18	6600culn	9m/9m			
Posnet locations & remarks: good - none - intermittent			acoustics								
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL							
Tailbuoy #2	none	Gun string #2	GOOD								
Tailbuoy #3	none	Gun string #3	GOOD								
Tailbuoy #4	Good	Gun string #4	GOOD								
			MGL1408-A.LMN			mg12010.RTCN					
			line status:			COMPLETE					

Seq# 014		Line Name: MGL1408OBS01A		NAVIGATION		DATE: 2014-10-03		 	
		Line Brg : 114.5 °		LINE LOGS		JULIAN DAY: 276			
CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina			
DC SOL : 28.7 m		DEPTH SOL : 24.4 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary					
DC EOL : 0.2 m		DEPTH EOL : 4293.6 m		NAVIGATION SYSTEM USED: SeaPath 200					
BSP SOL: 6.0 kts		FEATHER SOL: -96.3 (turn)		NAVIGATION SYSTEM USED: POSMW					
BSP EOL: 5.0 kts		FEATHER EOL: 03.2 °		GRAVITY METER: BMG-II: used, SN210					
WEATHER		MAX FEATHER: -73.0 °		MAGNETOMETER: GeoMetrics: used					
WIND SOL: N 8.8 kts				UTM ZONE 18 North					
WIND EOL: SW12.6 kts		shift hours		shift leaders		shift hours		watch personnel	
SEAS SOL: 1.0 m		16:00 – 04:00 utc => Mike Martello		04:00 – 12:00 utc >		K. Damell, R. Davy, A. Becel, T. Blacic		20:00 – 04:00 utc >	
SEAS EOL: 1.0 m		04:00 – 16:00 utc => Alan Thompson		12:00 – 20:00 utc >		K. Eppe, M. Karl, S. Montelli, M. Hornbach		B. Phrampus, D.Sawyer, J. Hill	
SP	UTC	EVENT	COMMENTS						
1014	06:03	SOL							
	06:04	EOT	End of turn						
1036	06:31	FGSP	First good MCS recording shot point						
1072	07:23	OBS	Crossing OBS 102						
1143	09:02	OBS	Crossing OBS 103						
1206	10:26	OBS	Crossing OBS 104						
1270	11:55	OBS	Crossing OBS 105						
1289	12:22	Long Liner	Start offline to port						
1327	13:17	MMO	Power down for dolphins						
1333	13:26	MMO	Back up to full volume						
1337	13:32	OBS	OBS 106 missed, 6.3 km offline						
1354	13:55	Long Liner	start to return of line, D-off 9327 m						
1369	14:25	OBS	WB B06 missed by 10.3km offline						
1361	14:07	compasses	drop out d/t excessive shot times						
1385	15:19	MMO	Power down for turtle						
1392	15:44	MMO	Full power @ SP 1393						
1402	16:20	OBS	OBS 107 Missed by 2.0 km offline						
1410	16:49	Line	less than 500m off line, slowly turning back						
1410	16:49	Streamer	Streamer depth set to 11m d/t noise						
1468	18:31	OBS	Crossing OBS 108						
1501	19:24	OBS	Crossing WB_CO6						
1534	20:13	OBS	Crossing OBS 109						
1600	21:48	OBS	Crossing OBS 110						
1638	22:42	OBS	Crossing WB_D06						
1666	23:24	OBS	Crossing OBS111						
1688	00:00	Midnight							
1732	01:08	OBS	Crossing OBS112						
1735	01:13	Steering	Spectra unable to steer, bridge in control – current changed, front half of streamer depths unstable						
1798	02:50	OBS	Crossing OBS113						
1864	04:31	OBS	Crossing OBS114						
1929	06:12	OBS	Crossing OBS115						
1995	07:53	OBS	Crossing OBS116						
2057	09:25	EOL	End of line						
2044	09:06	LGSP	last shot point with full volume						
Posnet locations & remarks: good - none - intermittent			acoustics						
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL					
Tailbuoy #2	none	Gun string #2	GOOD						
Tailbuoy #3	none	Gun string #3	GOOD						
Tailbuoy #4	Good	Gun string #4	GOOD						
			MGL1408-A.LMN		mgl2010.RTCN				
			line status:		INCOMPLETE				

VESSEL POSITION			
	Shotpoints	Latitude (N/+)	Longitude (W/-)
FNSP	1014	35° 54' 59.931"	-75° 10' 18.645"
LSP	2057	35° 01' 02.576"	-72° 49' 53.553"
NAVIGATION OFFSET APPLIED			
NRP - Stern	29.5m		
NRP - COS	216.0m		
NRP - CNG	523.50m		
COS - CNG	307.50m		
NRP - CMP	369.75m		
Acquisition parameters			
SP spacing:	rec length	source volume	Source dpth / strrm depth
225	18	6600culn	9m/9m

Line Name: MGL1408MCS01		NAVIGATION		DATE: 2014-10-05		<i>Lamont-Doherty Earth Observatory</i>	
Line Brg : 294.5 °		LINE LOGS		JULIAN DAY: 278		<i>COLUMBIA UNIVERSITY EARTH INSTITUTE</i>	
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina			
DC SOL : 2.6 m DC EOL : 1.5 m BSP SOL: 3.9 kts BSP EOL: 4.6 kts WEATHER WIND SOL: W 21 kts WIND EOL: NE 8.0 kts SEAS SOL: 2.0 m SEAS EOL: 1.0 m		DEPTH SOL : 4656.1 m DEPTH EOL : 2985.2 m FEATHER SOL: 14.7 ° FEATHER EOL: 06.1 ° MAX FEATHER: 14.7 °		NAVIGATION SYSTEM USED: C-Nav3050 - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: POSMV GRAVITY METER: BMG-II: used, SN210 MAGNETOMETER: GeoMetrics: used UTM ZONE 18 North			
shift hours shift leaders shift hours watch personnel 16:00 - 04:00 utc => Mike Martello 04:00 - 12:00 utc > K. Darnell, R. Davy, A. Becel, T. Blacic 04:00 - 16:00 utc => Alan Thompson 12:00 - 20:00 utc > K. Epple, M. Karl, S. Montelli, M. Hornbach				20:00 - 04:00 utc >		B. Phrampus, D. Sawyer, J. Hill	
SP	UTC	EVENT	COMMENTS				
945	06:18	FNSP		VESSEL POSITION			
1009	06:43	FSP		Shotpoints Latitude (N / +) Longitude (W / -)			
1115	07:21	XBT	XBT-T5 Seq 71	FNSP 945 34° 28' 37.772" -71° 30' 09.486"			
1277	08:16	OBS	Crossing OBS 125	LSP 6087 35° 29' 19.014" -74° 02' 10.258"			
1385	08:52	XBT	XBT-T5 Seq 72	NAVIGATION OFFSET APPLIED			
1573	09:54	OBS	Crossing OBS 124	NRP - Stern 29.5m			
1647	10:19	XBT	XBT-T5 Seq 73	NRP - COS 216.0m			
1870	11:34	OBS	Crossing OBS 123	NRP - CNG 523.50m			
1894	11:43	XBT	XBT T5 Seq 74	COS - CNG 307.50m			
2054	12:40	SRI	Steering returned to bridge DC 35m	NRP - CMP 369.75m			
2165	13:20	XBT	XBT T5 Seq 75	Acquisition parameters			
2166	13:20	OBS	Crossing OBS 122	SP spacing: rec length source volume Source dpth / strrm depth			
2406	14:52	XBT	XBT T5 Seq 76	50 18 6600culn 9m / 9m			
2462	15:12	OBS	Crossing OBS 121				
2758	16:58	OBS	XBT T5 Seq 77				
2773	17:04	XBT	Crossing OBS 120				
2805	17:15	MULTIBEAM	EM122 offline				
2835	17:26	MULTIBEAM	BIST passed start logging				
2909	17:52	XBT	XBT T5 Seq 78				
3054	18:44	OBS	Crossing OBS 119				
3169	19:23	XBT	XBT T5 Seq 79				
3351	20:25	OBS	Crossing OBS118				
3425	20:49	XBT	XBT T5 Seq 80				
3647	22:05	OBS	Crossing OBS117				
3687	22:19	XBT	XBT T5 Seq 81				
3930	23:41	XBT	XBT T5 Seq 82				
3944	23:46	OBS	Crossing OBS116				
3985	00:00	Midnight					
4205	01:19	XBT	XBT T5 Seq83				
4240	01:31	OBS	Crossing OBS 115				
4444	02:44	XBT	XBT T5 Seq84				
4537	03:18	OBS	Crossing OBS 114				
4721	04:25	XBT	XBT T5 Seq85				
4833	05:06	OBS	Crossing OBS 113				
4955	05:50	XBT	XBT T5 Seq86				
5130	06:52	OBS	Crossing OBS 112				
5209	07:20	XBT	XBT-T5 Seq 87				
5426	08:32	OBS	Crossing OBS 111				
5466	08:45	XBT	XBT-T5 Seq 88				
5556	09:15	OBS	Crossing OBS WB-D06 830m CPA				
5720	10:10	XBT	XBT-T5 Seq 89				
5723	10:11	OBS	Crossing OBS 110				
5975	11:34	XBT	XBT T5 Seq 90				
6019	11:50	OBS	Crossing OBS 109				
6087	12:13	EOL	Early EOL due to source-air leak in array #4				
Posnet locations & remarks: good - none - intermittent			acoustics				
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL			
Tailbuoy #2	none	Gun string #2	GOOD				
Tailbuoy #3	none	Gun string #3	GOOD				
Tailbuoy #4	Good	Gun string #4	GOOD				

MGL1408-A.LMN mgl2010.RTCN
line status: COMPLETE

Seq# 017	Line Name: MGL1408MCS01A	NAVIGATION	DATE: 2014-10-05		
	Line Brg : 294.5 °	LINE LOGS	JULIAN DAY: 279		
CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina
DC SOL : -125.4 m	DEPTH SOL : 3126.4 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : -4.4 m	DEPTH EOL : 82.3 m	NAVIGATION SYSTEM USED: SeaPath 200			
BSP SOL: 4.9 kts	FEATHER SOL: 12.2 °	NAVIGATION SYSTEM USED: POSMV			
BSP EOL: 4.8 kts	FEATHER EOL: 04.6 °	GRAVITY METER: BMG-II: used, SN210			
WEATHER	MAX FEATHER: 42.5 °	MAGNETOMETER: GeoMetrics: used			
WIND SOL: SE 6 kts		UTM ZONE 18 North			
WIND EOL: 13.2 SW kts	shift hours	shift leaders	shift hours	watch personnel	shift hours
SEAS SOL: 0.5 m	16:00 - 04:00 utc =>	Mike Martello	04:00 - 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 - 04:00 utc >
SEAS EOL: 1.0 m	04:00 - 16:00 utc =>	Alan Thompson	12:00 - 20:00 utc >	K. Eppler, M. Karl, S. Montelli, M. Hornbach	B. Phrampus, D.Sawyer, J. Hill


SP	UTC	EVENT	COMMENTS	VESSEL POSITION		
				Shotpoints	Latitude (N / +)	Longitude (W / -)
5910	17:11	FSP/SOL	Overlap shot points	5910	35° 27' 13.157"	-73° 56' 54.723"
6087	18:11	Overlap	End of overlaps			
6088	18:12	Prime	Start of prime			
6019	17:48	OBS	Crossing OBS109			
6167	18:38	OBS	Crossing WB_C06			
6227	18:59	XBT	XBT-T5 Seq 91			
6316	19:29	OBS	Crossing OBS108			
6349	19:40	XBT	XBT-T5 Seq 92			
6491	20:29	XBT	XBT-T5 Seq 93			
6612	21:12	OBS	Crossing OBS107			
6640	21:22	Fishing Gear	Slowing d/t fishing gear ahead, giving time for gear to be retrieved			
6721	22:00	Fishing Gear	Cleared of fishing gear, resume speed			
6745	22:11	XBT	XBT-T5 Seq 94			
6763	22:18	OBS	Crossing WB_B06			
6908	23:21	OBS	Crossing OBS106			
6993	00:00	Midnight				
6999	00:03	XBT	XBT-T5 Seq95			
7206	01:33	OBS	Crossing OBS105			
7212	01:36	XBT	XCTD-1 Seq96			
7496	03:18	OBS	Crossing OBS104			
7506	03:21	XBT	XBT-T7 Seq97			
7787	04:42	EOL	EOL early due to cable depth in shallow water			



NAVIGATION OFFSET APPLIED			
NRP - Stern	29.5m		
NRP - COS	216.0m		
NRP - CNG	523.50m		
COS - CNG	307.50m		
NRP - CMP	369.75m		

Acquisition parameters			
SP spacing:	rec length	source volume	Source dpth / strrm depth
50	18	6600culin	9m / 9m

Posnet locations & remarks: good - none - intermittent			acoustics
Tailbuoy #1	none	Gun string #1	GOOD
Tailbuoy #2	none	Gun string #2	Intermittent
Tailbuoy #3	none	Gun string #3	GOOD
Tailbuoy #4	Good	Gun string #4	GOOD

MGL1408-A.LMN	mgl2010.RTCN
line status:	COMPLETE

Seq# 018		Line Name: MGL1408MCS01B	NAVIGATION	DATE: 2014-10-07	
		Line Brg : 294.5 °	LINE LOGS	JULIAN DAY: 280	
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina	
DC SOL : -49.9 m	DEPTH SOL : 756.6 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : 34.8 m	DEPTH EOL : 24.1 m	NAVIGATION SYSTEM USED: SeaPath 200			
BSP SOL: 4.2 kts	FEATHER SOL: 23.9 °	NAVIGATION SYSTEM USED: POSMW			
BSP EOL: 5.0 kts	FEATHER EOL: 04.4 °	GRAVITY METER: BMG-II: used, SN210			
WEATHER	MAX FEATHER: 23.9 °	MAGNETOMETER: GeoMetrics: used			
WIND SOL: W 2.0 kts		UTM ZONE 18 North			
WIND EOL: S 7.0 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours
SEAS SOL: 0.0 m	16:00 – 04:00 utc =>	Mike Martello	04:00 – 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 – 04:00 utc >
SEAS EOL: 0.0 m	04:00 – 16:00 utc =>	Alan Thompson	12:00 – 20:00 utc >	K. Epplé, M. Karl, S. Montelli, M. Hornbach	B. Phrampus, D.Sawyer, J. Hill
SP	UTC	EVENT	COMMENTS		
7666	18:07	FSP/SOL	Overlap shot points		
7713	18:25	MMO	Powerdown to mitigation gun for pilot whale sighting		
7732	18:30	MMO	Pilot whale departed power down range, first shot @ full power		
7744	18:35	MMO	Powerdown to mitigation gun for pilot whale sighting		
7778	18:49	OBS	Crossing OBS 103		
7787	18:52	Overlap	End of overlaps		
7788	18:53	Prime	Start of prime		
7814	19:03	MMO	Pilot whale departed power down range, first shot @ full power		
8087	20:36	EM122	EM122 HDDS crash		
8098	20:39	OBS	Crossing OBS 102		
8100	20:40	EM122	EM122 HDDS crash		
8349	22:02	EOL			
				VESSEL POSITION	
				Shotpoints	Latitude (N / +)
				7666	35° 47' 16.728"
				8349	35° 55' 00.210"
				74° 49' 37.078"	75° 10' 13.280"
				NAVIGATION OFFSET APPLIED	
				NRP - Stern	29.5m
				NRP - COS	216.0m
				NRP - CNG	523.50m
				COS - CNG	307.50m
				NRP - CMP	369.75m
				Acquisition parameters	
		SP spacing:	rec length	source volume	Source dpth / strrm depth
		50	18	6600culn	9m / 9m
Posnet locations & remarks: good - none - intermittent		acoustics			
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL	
Tailbuoy #2	none	Gun string #2	Intermittent		
Tailbuoy #3	none	Gun string #3	GOOD		
Tailbuoy #4	Good	Gun string #4	GOOD		
				MGL1408-A.LMN	mgl2010.RTCN
				line status:	COMPLETE

Seq# 019		Line Name: MGL1408MCS052		NAVIGATION		DATE: 2014-10-08				
		Line Brg : 98.466 °		LINE LOGS		JULIAN DAY: 281				
CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina				
DC SOL : -0.6 m		DEPTH SOL : 33.2 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary						
DC EOL : -44.2 m		DEPTH EOL : 2405.8 m		NAVIGATION SYSTEM USED: SeaPath 200						
BSP SOL: 4.6 kts		FEATHER SOL: 07.7 °		NAVIGATION SYSTEM USED: POSMW						
BSP EOL: 5.1 kts		FEATHER EOL: -38.3 °		GRAVITY METER: BMG-II: used, SN210						
WEATHER		MAX FEATHER: -38.3 °		MAGNETOMETER: GeoMetrics: used						
WIND SOL: S 11.7 kts				UTM ZONE 18 North						
WIND EOL: SW 25.3 kts		shift hours		shift leaders		shift hours		watch personnel		
SEAS SOL: 0.0 m		16:00 – 04:00 utc => Mike Martello		04:00 – 12:00 utc >		K. Darnell, R. Davy, A. Becel, T. Blacic		20:00 – 04:00 utc > B. Phrampus, D.Sawyer, J. Hill		
SEAS EOL: 2.0 m		04:00 – 16:00 utc => Alan Thompson		12:00 – 20:00 utc >		K. Eppele, M. Karl, S. Montelli, M. Hornbach				
SP	UTC	EVENT	COMMENTS							
888	00:40	FNSP								
956	00:52	FGSP/SOL								
2030	03:54	XBT	XBT-T5 Seq 99							
2620	05:34	XBT	XBT-T5 Seq 100							
3359	07:45	XBT	XBT-T5 Seq 101							
	08:53	NAV	Start turn to Port							
3784	08:58	EOL								
				VESSEL POSITION						
				Shotpoints		Latitude (N / +)		Longitude (W / -)		
				888		36° 02' 19.125"		-74° 59' 21.612"		
				3784		35° 56' 29.099"		-74° 11' 41.986"		
				NAVIGATION OFFSET APPLIED						
				NRP - Stern		29.5m				
				NRP - COS		216.0m				
				NRP - CNG		523.50m				
				COS - CNG		307.50m				
				NRP - CMP		369.75m				
				Acquisition parameters						
SP spacing:		rec length		source volume		Source dpth / strrm depth				
25		9		3300culn		6m / 6m				
Posnet locations & remarks: good - none - intermittent			acoustics							
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL						
Tailbuoy #2	none	Gun string #2	Intermittent							
Tailbuoy #3	none	Gun string #3	GOOD							
Tailbuoy #4	Good	Gun string #4	GOOD							
			MGL1408-A.LMN							
			mgj2010.RTCN							
			line status:				COMPLETE			

Line Name: MGL1408MCS053 **NAVIGATION** DATE: 2014-10-08
 Seq# 020 Line Brg : 275.2 ° **LINE LOGS** JULIAN DAY: 281

CLIENT: Donna Schillington - PI SURVEY: ENAM 2D Seismic Mission AREA: Offshore North Carolina
 DC SOL : 7.4 m DEPTH SOL : 2412.5 m NAVIGATION SYSTEM USED: C-Nav3050 - Primary
 DC EOL : -4.9 m DEPTH EOL : 2189.5 m NAVIGATION SYSTEM USED: SeaPath 200
 BSP SOL: 2.4 kts FEATHER SOL: 17.2 ° NAVIGATION SYSTEM USED: POSMV
 BSP EOL: 3.4 kts FEATHER EOL: 25.2 ° GRAVITY METER: BMG-II: used, SN210
 WEATHER MAX FEATHER: 27.9 ° MAGNETOMETER: GeoMetrics: used
 WIND SOL: SW 28 kts UTM ZONE 18 North
 WIND EOL: SW 26.3 kts shift hours shift leaders shift hours watch personnel shift hours watch personnel
 SEAS SOL: 2.0 m 16:00 - 04:00 utc => Mike Martello 04:00 - 12:00 utc > K. Darnell, R. Davy, A. Becel, T. Blacic 20:00 - 04:00 utc > B. Phrampus, D.Sawyer, J. Hill
 SEAS EOL: 2.0 m 04:00 - 16:00 utc => Alan Thompson 12:00 - 20:00 utc > K. Epplé, M. Karl, S. Montelli, M. Hornbach

SP	UTC	EVENT	COMMENTS	VESSEL POSITION		
900	12:18	FSP		Shotpoints	Latitude (N / +)	Longitude (W / -)
1453	14:59	EOL	Early eol asked for by Tech in Charge	900	36° 08' 53.043"	-74° 09' 26.353"
				FNSP		
				LSP	1453	36° 09' 33.216" -74° 18' 37.208"
				NAVIGATION OFFSET APPLIED		
				NRP - Stern	29.5m	
				NRP - COS	216.0m	
				NRP - CNG	523.50m	
				COS - CNG	307.50m	
				NRP - CMP	369.75m	
				Acquisition parameters		
				SP spacing:	rec length	source volume
				25	9	3300culn
					Source dpth / strrm	depth
					6m / 6m	
Posnet locations & remarks: good - none - intermittent				acoustics		
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL		
Tailbuoy #2	none	Gun string #2	Intermittent			
Tailbuoy #3	none	Gun string #3	GOOD			
Tailbuoy #4	Good	Gun string #4	GOOD			

MGL1408-A.LMN mgl2010.RTCN
line status: INCOMPLETE

Line Name: **MGL1408MCS057** **NAVIGATION** DATE: 2014-10-08
 Line Brg : 269.268 ° **LINE LOGS** JULIAN DAY: 281

Seq# 021

CLIENT: Donna Schillington - PI SURVEY: ENAM 2D Seismic Mission AREA: Offshore North Carolina
 DC SOL : 83.3 m DEPTH SOL : 1941.2 m NAVIGATION SYSTEM USED: C-Nav3050 - Primary
 DC EOL : -11.4 m DEPTH EOL : 31.6 m NAVIGATION SYSTEM USED: SeaPath 200
 BSP SOL: 3.5 kts FEATHER SOL: 45.5 ° NAVIGATION SYSTEM USED: POSMW
 BSP EOL: 5.9 kts FEATHER EOL: 04.6 ° GRAVITY METER: BMG-II: used, SN210
 WEATHER MAX FEATHER: 45.5 ° MAGNETOMETER: GeoMetrics: used
 WIND SOL: SW 13.5 kts UTM ZONE 18 North
 WIND EOL: W 13.7 kts shift hours shift leaders shift hours watch personnel shift hours watch personnel
 SEAS SOL: 1.0 m 16:00 - 04:00 utc => Mike Martello 04:00 - 12:00 utc > K. Darnell, R. Davy, A. Becel, T. Blacic 20:00 - 04:00 utc > B. Phrampus, D.Sawyer, J. Hill
 SEAS EOL: 1.0 m 04:00 - 16:00 utc => Alan Thompson 12:00 - 20:00 utc > K. Eppele, M. Karl, S. Montelli, M. Hornbach

SP	UTC	EVENT	COMMENTS	VESSEL POSITION		
				Shotpoints	Latitude (N / +)	Longitude (W / -)
4470	18:50	FSP		4470	36° 02' 51.208"	74° 28' 13.503"
4690	19:35	OBS	Crossing OBS 421. 1km from OBS			
6216	00:00	Midnight		6634	36° 02' 05.244"	75° 02' 34.109"
6534	00:54	LSP				
				NAVIGATION OFFSET APPLIED		
				NRP - Stern	29.5m	
				NRP - COS	216.0m	
				NRP - CNG	523.50m	
				COS - CNG	307.50m	
				NRP - CMP	369.75m	
				Acquisition parameters		
				SP spacing:	rec length	source volume
				25	9	3300culn
						Source dpth / strrm depth
						6m / 6m

Posnet locations & remarks: good - none - intermittent			acoustics
Tailbuoy #1	none	Gun string #1	GOOD
Tailbuoy #2	none	Gun string #2	Intermittent
Tailbuoy #3	none	Gun string #3	GOOD
Tailbuoy #4	Good	Gun string #4	GOOD

MGL1408-A.LMN mgj2010.RTCN
line status: COMPLETE

Seq# 022		Line Name: MGL1408MCS058	NAVIGATION		DATE: 2014-10-09	Lamont-Doherty Earth Observatory		
		Line Brg : 88.567 °	LINE LOGS		JULIAN DAY: 282	COLUMBIA UNIVERSITY EARTH INSTITUTE		
CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina		
DC SOL : -68.3 m			DEPTH SOL : 33.8 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : 4.9 m			DEPTH EOL : 2500.4 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 4.5 kts			FEATHER SOL: 39.9 °	NAVIGATION SYSTEM USED: POSMV				
BSP EOL: 5.3 kts			FEATHER EOL: -13.7 °	GRAVITY METER: BMG-II: used, SN210				
WEATHER			MAX FEATHER: -15.0 °	MAGNETOMETER: GeoMetrics: used				
WIND SOL: 12 kts				UTM ZONE 18 North				
WIND EOL: 3.9 kts								
SEAS SOL: 12.0 m								
SEAS EOL: 1.0 m								
		<u>shift hours</u> <u>shift leaders</u> <u>shift hours</u> <u>watch personnel</u>			<u>shift hours</u>	<u>watch personnel</u>		
		16:00 – 04:00 utc => Mike Martello	04:00 – 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic		20:00 – 04:00 utc > B. Phrampus, D.Sawyer, J. Hill		
		04:00 – 16:00 utc => Alan Thompson	12:00 – 20:00 utc >	K. Epple, M. Karl, S. Montelli, M. Hornbach				
SP	UTC	EVENT	COMMENTS					VESSEL POSITION
863	18:54	FSP						Shotpoints Latitude (N / +) Longitude (W / -)
1765	21:31	XBT	XBT-T7 Seq102					863 36° 19' 13.154" 74° 59' 22.675"
1821	21:40	MMO	MMO Sighting, power down to mitigation gun					LSP 4154 36° 20' 05.869" 74° 04' 24.567"
1865	21:48	MMO	Cleared to fire full power – First full power shot					
2639	00:00	Midnight						
2807	00:29	XBT	XBT-T5 Seq103					NAVIGATION OFFSET APPLIED
								NRP - Stern 29.5m
								NRP - COS 216.0m
								NRP - CNG 523.50m
								COS - CNG 307.50m
								NRP - CMP 369.75m
								Acquisition parameters
			SP spacing:		rec length	source volume	Source dpth / strrm depth	
			25		9	3300culn	6m / 6m	
4154	04:20	EOL						
Posnet locations & remarks: good - none - intermittent			acoustics					
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL				
Tailbuoy #2	none	Gun string #2	Intermittent					
Tailbuoy #3	none	Gun string #3	GOOD					
Tailbuoy #4	Good	Gun string #4	GOOD					

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line status:

COMPLETE

Line Name: MGL1408MCS04B		NAVIGATION		DATE: 2014-10-10	
Line Brg : 188.437 °		LINE LOGS		JULIAN DAY: 283	
CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission		
AREA: Offshore North Carolina					
DC SOL : 0.8 m	DEPTH SOL : 1931.3 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : -6.7 m	DEPTH EOL : 3420.2 m	NAVIGATION SYSTEM USED: SeaPath 200			
BSP SOL: 4.7 kts	FEATHER SOL: -12.8 °	NAVIGATION SYSTEM USED: POSMV			
BSP EOL: 3.6 kts	FEATHER EOL: -13.7 °	GRAVITY METER: BMG-II: used, SN210			
WEATHER	MAX FEATHER: -28.2 °	MAGNETOMETER: GeoMetrics: used			
WIND SOL: WSW5.3 kts		UTM ZONE 18 North			
WIND EOL: N17.5 kts	shift hours shift leaders shift hours watch personnel				
SEAS SOL: 0-1m	16:00 - 04:00 utc => Mike Martello	04:00 - 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic	20:00 - 04:00 utc >	B. Phrampus, D.Sawyer, J. Hill
SEAS EOL: 1m	04:00 - 16:00 utc => Alan Thompson	12:00 - 20:00 utc >	K. Epple, M. Karl, S. Montelli, M. Hornbach		
SP			UTC		
EVENT			COMMENTS		
903	10:54	FSP			
1069	11:50	MMO	Power down for dolphins		
1104	12:03	MMO	Full power, dolphins left		
1112	12:05	XBT	XBT - T5 seq 104 @ SP 1112		
1320	13:27	XCTD	XCTD-1 Seq 105		
1570	15:32	XBT	XBT - T5 seq 106		
1724	16:55	OBS	Crossing OBS 421		
1743	17:05	XBT	XBT - T5 seq 107		
1898	18:29	MMO	Power down for sighting		
1906	18:33	MMO	Return to full power		
1948	18:55	XBT	XBT - T5 Seq108		
2018	19:33	MMO	Power down for sighting		
2054	19:53	MMO	Return to full power		
2124	20:34	OBS	Crossing OBS 420		
2151	20:49	MMO	Power down for sighting		
2162	20:56	XBT	XBT - T5 Seq109		
2179	21:06	MMO	Return to full power		
2370	22:56	XBT	XBT - T5 Seq110		
2479	00:00	Midnight			
2520	00:25	OBS	Crossing OBS 105		
2595	01:12	XBT	XBT-T5 Seq111		
2784	03:14	XBT	XBT-T5 Seq112		
2892	04:28	OBS	Crossing OBS 419		
3000	05:49	XBT	XBT - T5 Seq113		
3210	08:14	XBT	XBT - T5 Seq114		
3252	08:41	OBS	Crossing OBS 417		
3337	09:34	OBS	Crossing WB-A05B		
3421	10:24	XBT	XBT-T5 Seq 115		
3630	12:27	XBT	XBT - T5 Seq116		
3631	12:27	OBS	Crossing OBS 415		
3863	14:40	XBT	XBT - T5 Seq117		
4014	16:13	Multibeam	EM122 HDDS crash		
4018	16:17	Multibeam	Online		
4052	16:36	XBT	XBT - T5 Seq118		
4070	16:47	OBS	Crossing OBS 413		
4258	18:40	XBT	XBT - T5 Seq119		
4470	21:07	XBT	XBT - T5 Seq120		
4509	21:38	OBS	Crossing OBS411		
4679	23:44	XBT	XBT - T5 Seq121		
4702	00:00	Midnight			
4889	02:21	XBT	XBT - T5 Seq122		
4948	03:05	OBS	Crossing OBS409		
5100	04:49	XBT	XBT - T5 Seq123		
	05:58	Multibeam	Ran ALL BIST		
	06:07	Multibeam	Passed BIST - operation and logging		
5310	06:41	XCTD	XCTD-1 Seq 124		
5525	08:25	XBT	XBT - T5 Seq 125		
5768	10:14	EOL			
VESSEL POSITION					
		Shotpoints	Latitude (N / +)	Longitude (W / -)	
FSP	903	36° 26' 06.117"	-74° 27' 46.955"		
LSP	5768	34° 14' 56.392"	-74° 51' 01.994"		
NAVIGATION OFFSET APPLIED					
		NRP - Stern	29.5m		
		NRP - COS	216.0m		
		NRP - CNG	523.50m		
		COS - CNG	307.50m		
		NRP - CMP	369.75m		
Acquisition parameters					
SP spacing:	rec length	source volume	Source dpth / strmm depth		
50	18	6600culn	9m / 9m		
Posnet locations & remarks: good - none - intermittent		acoustics			
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL	
Tailbuoy #2	none	Gun string #2	Intermittent		
Tailbuoy #3	none	Gun string #3	GOOD		
Tailbuoy #4	Good	Gun string #4	GOOD		

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line status: COMPLETE

Seq# 025		Line Name: MGL1408MCS063	NAVIGATION		DATE: 2014-10-13	
		Line Brg : 209.536 °	LINE LOGS		JULIAN DAY: 286	
CLIENT: Donna Schillington - PI		SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina	
DC SOL : -6.7 m	DEPTH SOL : 3841.2 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : 1.7 m	DEPTH EOL : 2337.7 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 4.8 kts	FEATHER SOL: -31.0 °	NAVIGATION SYSTEM USED: POSMV				
BSP EOL: 4.7 kts	FEATHER EOL: -00.3 °	GRAVITY METER: BMG-II; used, SN210				
WEATHER	MAX FEATHER: -31.0 °	MAGNETOMETER: GeoMetrics; used				
WIND SOL: SE 11.6 kts		UTM ZONE 18 North				
WIND EOL: ESE 20.0 kts		<u>shift hours</u>	<u>shift leaders</u>	<u>shift hours</u>	<u>watch personnel</u>	
SEAS SOL: 1.0 m	16:00 – 04:00 utc => Mike Martello	04:00 – 12:00 utc >	K. Darnell, R. Davy, A. Becel, T. Blacic		20:00 – 04:00 utc > B. Phrampus, D. Sawyer, J. Hill	
SEAS EOL: 1.5 m	04:00 – 16:00 utc => Alan Thompson	12:00 – 20:00 utc >	K. Epple, M. Karl, S. Montelli, M. Hornbach			

SP	UTC	EVENT	COMMENTS
0893	13:44	FSP	
0923	13:54	Multibeam	Run BIST Test
0948	14:02	Multibeam	BIST Passed, all online
1284	15:55	XBT	XBT-T5 Seq130
	18:28	Multibeam	Stop pinging and logging
	18:29	Multibeam	restart pinging and logging
	18:53	Multibeam	Stop pinging and logging to restart SIS software
	18:56	Multibeam	restart pinging and logging
1839	19:04	XBT	XBT-T5 Seq131
2292	21:40	EOL	

	VESSEL POSITION		
	Shotpoints	Latitude (N / +)	Longitude (W / -)
FSP	893	33° 06' 03.179"	-75° 16' 41.976"
LSP	2292	33° 18' 14.857"	-75° 59' 18.717"

NAVIGATION OFFSET APPLIED	
NRP - Stern	29.5m
NRP – COS	216.0m
NRP – CNG	523.50m
COS – CNG	307.50m
NRP – CMP	369.75m

Acquisition parameters			
SP spacing:	rec length	source volume	Source dpth / strm depth
50	18	3300in3	6m / 6m

<u>Posnet locations & remarks: good - none - intermittent</u>			<u>acoustics</u>	
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL
Tailbuoy #2	none	Gun string #2	Intermittent	
Tailbuoy #3	none	Gun string #3	GOOD	
Tailbuoy #4	Good	Gun string #4	GOOD	

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line status: COMPLETE

Seq# 026		Line Name: MGL1408MCS063A		NAVIGATION		DATE: 2014-10-13		Lamont-Doherty Earth Observatory				
		Line Brg : 209.536 °		LINE LOGS		JULIAN DAY: 286		COLUMBIA UNIVERSITY EARTH INSTITUTE				
CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina						
DC SOL : 0.8 m		DEPTH SOL : 2267.7 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary								
DC EOL : 1.9 m		DEPTH EOL : 453.6 m		NAVIGATION SYSTEM USED: SeaPath 200								
BSP SOL: 4.7 kts		FEATHER SOL: 01.0 °		NAVIGATION SYSTEM USED: POSMV								
BSP EOL: 4.8 kts		FEATHER EOL: 24.3 °		GRAVITY METER: BMG-II: used, SN210								
WEATHER		MAX FEATHER: 40.3 °		MAGNETOMETER: GeoMetrics: used								
WIND SOL: ESE 20.0 kts				UTM ZONE 18 North								
WIND EOL: 20.5 kts												
SEAS SOL: 1.5 m		16:00 – 04:00 utc => Mike Martello		04:00 – 12:00 utc >		K. Darnell, R. Davy, A. Becel, T. Blacic		20:00 – 04:00 utc > B. Phrampus, D.Sawyer, J. Hill				
SEAS EOL: 1.5 m		04:00 – 16:00 utc => Alan Thompson		12:00 – 20:00 utc >		K. Epple, M. Karl, S. Montelli, M. Hornbach						
			COMMENTS									
SP	UTC	EVENT							VESSEL POSITION			
3618	21:46	FSP							Shotpoints	Latitude (N / +)	Longitude (W / -)	
3898	22:34	XBT	XBT-T5 Seq132						FSP	2146	33° 18' 23.888"	-75° 59' 50.791"
4381	00:00	Midnight							LSP	5805	33° 27' 45.248"	-76° 33' 17.588"
4925	01:40	XBT	XBT-T7 Seq133						NAVIGATION OFFSET APPLIED			
									NRP - Stern	29.5m		
									NRP - COS	216.0m		
									NRP - CNG	523.50m		
									COS - CNG	307.50m		
									NRP - CMP	369.75m		
									Acquisition parameters			
			SP spacing:		rec length	source volume	Source dpth / strm depth					
			25		9	3300in3	6m / 6m					
Posnet locations & remarks: good - none - intermittent			acoustics									
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL								
Tailbuoy #2	none	Gun string #2	Intermittent									
Tailbuoy #3	none	Gun string #3	GOOD									
Tailbuoy #4	Good	Gun string #4	GOOD									
			MGL1408-A.LMN		mgl2010.RTCN							
			line status:		COMPLETE							

Line Name: **MGL1408MCS064** **NAVIGATION** DATE: 2014-10-14
 Seq# 027 Line Brg : **201.561 °** **LINE LOGS** JULIAN DAY: 287

CLIENT: Donna Schillington - PI SURVEY: ENAM 2D Seismic Mission AREA: Offshore North Carolina

DC SOL : 4.7 m DEPTH SOL : 513.6 m NAVIGATION SYSTEM USED: C-Nav3050 - Primary
 DC EOL : 2.0 m DEPTH EOL : 619.2 m NAVIGATION SYSTEM USED: SeaPath 200
 BSP SOL: 2.9 kts FEATHER SOL: 28.3 ° NAVIGATION SYSTEM USED: POSMV
 BSP EOL: 2.6 kts FEATHER EOL: 00.1 ° GRAVITY METER: BMG-II: used, SN210
 WEATHER MAX FEATHER: 05.8 ° MAGNETOMETER: GeoMetrics: used
 WIND SOL: SE 23.1 kts UTM ZONE 18 North
 WIND EOL: 22.1 kts shift hours shift leaders shift hours watch personnel shift hours watch personnel
 SEAS SOL: 2.0 m 16:00 - 04:00 utc => Mike Martello 04:00 - 12:00 utc > K. Darnell, R. Davy, A. Becel, T. Blacic 20:00 - 04:00 utc > B. Phrampus, D. Sawyer, J. Hill
 SEAS EOL: 22.1 m 04:00 - 16:00 utc => Alan Thompson 12:00 - 20:00 utc > K. Epple, M. Karl, S. Montelli, M. Hornbach

SP	UTC	EVENT	COMMENTS
756	07:18	FSP	
	08:19	BIST	Run ALL BIST
	08:27	BIST	Passed BIST
1042	08:42	Multibeam	Multibeam stopped
1059	08:45	Multibeam	Multibeam working
1540	10:59	Multibeam	multibeam restarted
1555	11:04	Multibeam	multibeam operational
2392	15:29	LGSP	Last good shot point prior to turtle power down
2393	15:29	MMO	powerdown for turtle
2399	15:31	MMO	shut down for turtle
2399	15:31	EOL	

VESSEL POSITION		
Shotpoints	Latitude (N / +)	Longitude (W / -)
FSP 756	33° 29' 19.776"	-76° 26' 51.319"
LSP 2399	33° 08' 39.569"	-76° 36' 33.965"

NAVIGATION OFFSET APPLIED	
NRP - Stern	29.5m
NRP - COS	216.0m
NRP - CNG	523.50m
COS - CNG	307.50m
NRP - CMP	369.75m

Acquisition parameters			
SP spacing:	rec length	source volume	Source dpth / strm depth
25	9	3300in3	6m / 6m

Posnet locations & remarks: good - none - intermittent			acoustics	
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL
Tailbuoy #2	none	Gun string #2	Intermittent	
Tailbuoy #3	none	Gun string #3	GOOD	
Tailbuoy #4	Good	Gun string #4	GOOD	

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line status: COMPLETE

Seq# 028		Line Name: MGL1408MCS04A		NAVIGATION		DATE: 2014-10-14	
		Line Brg : 27.543 °		LINE LOGS		JULIAN DAY: 287	
CLIENT: Donna Schillington - PI				SURVEY: ENAM 2D Seismic Mission		AREA: Offshore North Carolina	
DC SOL : 2.8 m		DEPTH SOL : 2743.4 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL :		DEPTH EOL :		NAVIGATION SYSTEM USED: SeaPath 200			
BSP SOL: 5.8 kts		FEATHER SOL: -32.6 °		NAVIGATION SYSTEM USED: POSMV			
BSP EOL: 6.2 kts		FEATHER EOL: 28.1 °		GRAVITY METER: BMG-II; used, SN210			
WEATHER		MAX FEATHER: -32.6 °		MAGNETOMETER: GeoMetrics; used			
WIND SOL: SSE 20.0 kts						UTM ZONE 18 North	
WIND EOL: S 25 kts		shift hours		shift leaders		shift hours	
SEAS SOL: 1.5 m		16:00 – 04:00 utc => Mike Martello		04:00 – 12:00 utc >		K. Darnell, R. Davy, A. Becel, T. Blacic	
SEAS EOL: 3.0 m		04:00 – 16:00 utc => Alan Thompson		12:00 – 20:00 utc >		K. Epple, M. Karl, S. Montelli, M. Hornbach	
		watch personnel		20:00 – 04:00 utc >		B. Phrampus, D.Sawyer, J. Hill	
SP				UTC			
EVENT				COMMENTS			
				VESEL POSITION			
				Shotpoints			
				Latitude (N / +)			
				Longitude (W / -)			
				FSP 928 33° 15' 20.252" -75° 55' 19.910"			
				LSP 3339 34° 27' 28.962" -75° 09' 51.356"			
				NAVIGATION OFFSET APPLIED			
				NRP - Stern 29.5m			
				NRP - COS 216.0m			
				NRP - CNG 523.50m			
				COS - CNG 307.50m			
				NRP - CMP 369.75m			
				Acquisition parameters			
				SP spacing:			
				rec length			
				source volume			
				Source dpth / strm depth			
				62.5 18 6600in3 9m / 9m			
				End of line			
				Eol early d/t cable tension will restart line with 75m shot interval.			
				Note: Tail Bouy#4 intermittent			
Posnet locations & remarks: good - none - intermittent				acoustics			
Tailbuoy #1 none Gun string #1 GOOD				OPERATIONAL			
Tailbuoy #2 none Gun string #2 Intermittent							
Tailbuoy #3 none Gun string #3 GOOD							
Tailbuoy #4 Good Gun string #4 Intermittent							
				MGL1408-A.LMN mgl2010.RTCN			
				line status: COMPLETE			

Seq# 030		Line Name: MGL1408MCS071		NAVIGATION		DATE: 2014-10-16	Lamont-Doherty Earth Observatory		
		Line Brg : 118.816 °		LINE LOGS		JULIAN DAY: 289	COLUMBIA UNIVERSITY EARTH INSTITUTE		
CLIENT: Donna Schillington - PI			SURVEY: ENAM 2D Seismic Mission			AREA: Offshore North Carolina			
DC SOL : 138.9 m	DEPTH SOL : 83.8 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary							
DC EOL : 2.7 m	DEPTH EOL : 3948.3 m	NAVIGATION SYSTEM USED: SeaPath 200							
BSP SOL: 4.8 kts	FEATHER SOL: -81.1 °	NAVIGATION SYSTEM USED: POSMV							
BSP EOL: 4.9 kts	FEATHER EOL: 11.1 °	GRAVITY METER: BMG-II: used, SN210							
WEATHER	MAX FEATHER: -44.6 °	MAGNETOMETER: GeoMetrics: used							
WIND SOL: SW 6.3 kts		UTM ZONE 18 North							
WIND EOL: NW 17.4 kts		shift hours		shift leaders		shift hours		watch personnel	
SEAS SOL: 1 to 2	16:00 – 04:00 utc => Mike Martello	04:00 – 12:00 utc >		K. Darnell, R. Davy, A. Becel, T. Blacic		20:00 – 04:00 utc >		B. Phrampus, D.Sawyer, J. Hill	
SEAS EOL: 2.0 m	04:00 – 16:00 utc => Alan Thompson	12:00 – 20:00 utc >		K. Epple, M. Karl, S. Montelli, M. Hornbach					
SP	UTC	EVENT	COMMENTS						
971	14:49	FSP							
1186	16:02	Streamer	Set streamer depth to 8m d/t swell noise						
1207	16:09	Streamer	set streamer depth to 10m d/t contiuned streamer noise						
1367	17:05	OBS	crossing WB A04						
1475	17:43	MMO	power down for turtle sighting						
1521	17:59	Spectra	NCC frozen on Spectra 1						
1550	18:10	Spectra	Restart NCC on spectra 1						
1559	18:13	MMO	Return to Full power (turtle gone)						
1799	19:40	Multibeam	Bathymetry out						
1804	19:42	Multibeam	Bathymetry back online						
	20:19	Multibeam	EM122 stopped logging/pinging to run BIST						
	20:27	Multibeam	BIST Passed restart pinginq and logging						
2101	21:30	OBS	Crossing WB C04						
2515	0:00	Midnight							
2924	02:23	OBS	Crossing WB D04						
3899	08:00	EOL	End of line						
				VESEL POSITION					
				Shotpoints	Latitude (N / +)		Longitude (W / -)		
		FSP			971		35° 07' 03.305"		-75° 11' 21.290"
		LSP			3899		34° 28' 20.879"		-73° 47' 37.219"
				NAVIGATION OFFSET APPLIED					
				NRP - Stern		29.5m			
				NRP - COS		216.0m			
				NRP - CNG		523.50m			
				COS - CNG		307.50m			
				NRP - CMP		369.75m			
				Acquisition parameters					
		SP spacing:	rec length	source volume	Source dpth / strm depth				
		50	18	3300in3	6m / 6 m				
Note: Streamer depth changes, see observer logs									
				Note: Tail Bouy#4 intermittent					
Posnet locations & remarks: good - none - intermittent				acoustics					
Tailbuoy #1	none	Gun string #1	GOOD	OPERATIONAL					
Tailbuoy #2	none	Gun string #2	Intermittent						
Tailbuoy #3	none	Gun string #3	GOOD						
Tailbuoy #4	Good	Gun string #4	Intermittent						
			MGL1408-A.LMN			mgl2010.RTCN			
			line status:			COMPLETE			