



<b>Seq# 001</b>		<b>Line Name:</b> MGL1407MCS01	<b>NAVIGATION</b>	<b>DATE:</b> 2014-08-23		
		<b>Line Brg :</b> 141.239 °	<b>LINE LOGS</b>	<b>JULIAN DAY:</b> 235		
<b>CLIENT:</b> Deborah Hutchinson - USGS		<b>SURVEY:</b> ECS 2D Seismic Mission		<b>AREA:</b> Eastern North America Margin between lat's 31N-40N		
DC SOL : 1.9 m	DEPTH SOL : 1667.7 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : 135.4 m	DEPTH EOL : 4241.1 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 4.6 kts	FEATHER SOL: 02.0 °	NAVIGATION SYSTEM USED: POSMW				
BSP EOL: 4.0 kts	FEATHER EOL: -29.7 °	GRAVITY METER: BMG-II: used, SN210				
WEATHER	MAX FEATHER: -72.7 °	MAGNETOMETER: GeoMetrics: used				
WIND SOL: 19 kts						
WIND EOL: 25 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours	watch personnel
SEAS SOL: 1.5 m	16:00 – 04:00 utc =>	Alan Thompson	10:00 – 16:00 utc >	na	22:00 – 04:00 utc >	na
SEAS EOL: 2.0 m	04:00 – 16:00 utc =>	Mike Martello	16:00 – 22:00 utc >	na	04:00 – 10:00 utc >	na
<b>SP</b>	<b>UTC</b>	<b>EVENT</b>	<b>COMMENTS</b>			
546	14:07	SOL	start of 2D acquisition 25m shot spacing, 6km streamer powered up			
			Assigned gun numbering incorrect in Spectra for gunstring 4			
			Compass 25 offline from SOL KO in spectra			
942	15:21	Bathy	EM122 depth tracking false bottom SOL – SP 942			
1110	15:51	multibeam	restart HDDS EM122			
1177	16:04	sonabuoy	launch seq1			
1369	16:39	XBT	launch seq4			
1650	17:31	rgps2	gun string2 gps now working			
1902	18:18	XBT	launch seq5			
2046	18:44	tow config	Move streamer to work on strain on tow point			
2201	18:36	rgps2	lost data sp's 2201 to 2250.			
2672	20:41	rgps3	lost data sp's 2672to 2777. (more outages after)			
3107	22:01	XBT	launch seq6			
3715	23:57	XBT	launch seq7			
3729	23:59	midnight SP	last sp of day			
4318	01:51	XBT	launch seq8			
4414	02:09	tension	reduce vessel speed to 3.8kts – streamer tension up to 5000psi.			
4418	02:10	rgps4	gun string4 gps not working. - bracket has fallen over			
4880	03:45	rgps2	gun string2 gps not working			
4905	03:50	XBT	launch seq9			
5500	05:45	XBT	launch seq10			
6100	07:42	XBT	launch seq11			
6645	09:29	Gun	220cubic inch gun 2-9 turned off (timing), turn on 180cubic inch gun 1-5 - new volume 6560			
6744	09:50	XBT	launch seq12			
7300	11:42	XBT	launch seq13			
7764	13:09	Sonabuoy	Launch seq2			
7900	13:35	XBT	Launch Seq14			
7903	13:35	Vessel	Autopilot unable to hold offset d/t strong currents. Being pushed offline due to Gulf Stream currents			
8461	15:30	feather	streamer totally straight with 60deg feather/crab to line heading.			
8500	15:39	XBT	launch Seq15			
9009	17:32	strm depth	Change streamer depth to 12m, was 9m.			
9071	17:46	strm depth	change streamer depth to 13m			
9140	18:00	feather	Both feather and crab angle starting to reduce intensity			
10185	21:26	strm depth	change streamer depth to 11m, was 13m			
10967	23:59	midnight SP	last sp of day			
11415	01:29	EOL	End of line			
		EOL	end of line			
<b>Posnet locations &amp; remarks:</b> good - none - intermittent				acoustics		
Tailbuoy #1	GOOD	Gun string #1	GOOD	OPERATIONAL		
Tailbuoy #2	none	Gun string #2	intermittent			
Tailbuoy #3	none	Gun string #3	GOOD			
Tailbuoy #4	none	Gun string #4	intermittent			
				MGL1407.LMN	mgl2010.RTCN	
				SP spacing:	25.0m	
<b>line status:</b>				<b>Complete</b>		

















<b>Seq# 009</b>		<b>Line Name:</b> MGL1407MCS06A	<b>NAVIGATION</b>	<b>DATE:</b> 2014-09-03	Lamont-Doherty Earth Observatory	
		<b>Line Brg :</b> 232.8 °	<b>LINE LOGS</b>	<b>JULIAN DAY:</b> 246	COLUMBIA UNIVERSITY   EARTH INSTITUTE	
<b>CLIENT:</b> Deborah Hutchinson - USGS		<b>SURVEY:</b> ECS 2D Seismic Mission		<b>AREA:</b> Eastern North America Margin between lat's 31N-40N		
DC SOL : -332.8 m	DEPTH SOL : 4865.5 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : 127.7 m	DEPTH EOL : 4938.7 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 2.4 kts	FEATHER SOL: -50.2 °	NAVIGATION SYSTEM USED: POSMV				
BSP EOL: 4.6 kts	FEATHER EOL: -02.2 °	GRAVITY METER: BMG-II: used, SN223				
WEATHER	MAX FEATHER: -50.2 °	MAGNETOMETER: GeoMetrics: used				
WIND SOL: SW 25 kts						
WIND EOL: W 17 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours	watch personnel
SEAS SOL: 1.5 m	16:00 – 04:00 utc =>	Alan Thompson	10:00 – 16:00 utc >	na	22:00 – 04:00 utc >	na
SEAS EOL: 2.0 m	04:00 – 16:00 utc =>	Mike Martello	16:00 – 22:00 utc >	na	04:00 – 10:00 utc >	na
<b>SP</b>	<b>UTC</b>	<b>EVENT</b>	<b>COMMENTS</b>			
55008	04:03	SOL	start of 2D acquisition 50m shot spacing, 8km streamer powered up – volume 6520 – record length 18 second			
			Streamer in turn at SOL			
55031	04:19	Turn	End of turn onto line			
55201	06:08	XBT	XBT – Seq056			
55498	09:01	XCTD	XCTD – Seq057			
55679	10:39	Sonabuoy	Sonabuoy Seq019			
55798	11:38	XBT	XBT Seq058			
55847	12:03	RGPS	power cycled gunstring 3 RGPS			
56035	13:36	Sonabuoy	Sonabuoy Seq020			
56120	14:17	XBT	XBT Seq059			
56159	14:37	Sonabuoy	Sonabuoy Seq021			
56393	16:41	XBT	XBT Seq060			
56643	18:54	Sonabuoy	Sonabuoy Seq022			
56703	19:24	XBT	XBT Seq061			
57003	21:53	XBT	XBT Seq062			
57038	22:11	Sonabuoy	Sonabuoy Seq023			
57111	22:47	Sonabuoy	Sonabuoy Seq024			
57260	23:59	midnight	Last sp of day			
57303	00:21	Sonabuoy	Sonabuoy Seq025			
57329	00:33	XBT	XBT Seq063			
57616	02:39	XBT	XBT Seq064			
57898	04:32	XBT	XBT Seq065			
57982	05:06	Sonabuoy	Sonabuoy Seq026			
58204	06:32	XBT	XBT Seq066			
58251	06:50	Sonabuoy	Sonabuoy Seq027			
58500	08:24	XBT	XBT Seq067			
55888	08:57	Sonabuoy	Sonabuoy Seq028			
58801	10:15	Sonabuoy	Sonabuoy Seq029			
58809	10:18	XBT	XBT Seq068			
58851	10:34	Sonabuoy	Sonabuoy Seq030			
59029	11:37	XCTD	XCTD Seq069			
59073	11:52	EOL	End of line			
<b>Posnet locations &amp; remarks:</b> good - none - intermittent		acoustics		MGL1407.LMN		
Tailbuoy #1	GOOD	Gun string #1	GOOD	mg12010.RTCN		
Tailbuoy #2	none	Gun string #2	none			
Tailbuoy #3	none	Gun string #3	GOOD			
Tailbuoy #4	none	Gun string #4	GOOD			
				SP spacing:	50.0m	
				<b>line status:</b>	complete	





Seq# 012		Line Name: <b>MGL1407MCS10B</b>	<b>NAVIGATION</b>	DATE: 2014-09-05	Lamont-Doherty Earth Observatory	
		Line Brg : 174.850 °	<b>LINE LOGS</b>	JULIAN DAY: 248	COLUMBIA UNIVERSITY   EARTH INSTITUTE	
<b>CLIENT:</b> Deborah Hutchinson - USGS		<b>SURVEY:</b> ECS 2D Seismic Mission		<b>AREA:</b> Eastern North America Margin between lat's 31N-40N		
DC SOL : 25.0 m	DEPTH SOL : 4500.1 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary				
DC EOL : 123.8 m	DEPTH EOL : 4933.5 m	NAVIGATION SYSTEM USED: SeaPath 200				
BSP SOL: 4.8 kts	FEATHER SOL: -41.9 (turn)	NAVIGATION SYSTEM USED: POSMV				
BSP EOL: 4.8 kts	FEATHER EOL: 01.1 °	<b>GRAVITY METER:</b> BMG-II: used, SN223				
<b>WEATHER</b>	<b>MAX FEATHER:</b> 04.6 °	<b>MAGNETOMETER:</b> GeoMetrics: used				
<b>WIND SOL:</b> WSW 2.8 kts						
<b>WIND EOL:</b> N 4.4 kts	<u>shift hours</u>	<u>shift leaders</u>	<u>shift hours</u>	<u>watch personnel</u>	<u>shift hours</u>	<u>watch personnel</u>
<b>SEAS SOL:</b> calm	16:00 – 04:00 utc =>	Alan Thompson	10:00 – 16:00 utc >	na	22:00 – 04:00 utc >	na
<b>SEAS EOL:</b> <1.0	04:00 – 16:00 utc =>	Mike Martello	16:00 – 22:00 utc >	na	04:00 – 10:00 utc >	na
<b>SP</b>	<b>UTC</b>	<b>EVENT</b>	<b>COMMENTS</b>			
68017	16:54	SOL	start of 2D acquisition 50m shot spacing, 8km streamer powered up – volume 6600 – record length 18 second			
			Streamer in turn at SOL			
68663	20:35	XBT	XBT t5 seq73			
68801	21:22	603F	vessel cpa to well 140m			
68805	21:23	603F	source cpa to well 180m			
69267	23:59	Midnight	last sp of day			
69515	01:23	EOL	end of line			
			<b>VESSEL POSITION</b>			
			<b>Shotpoints</b>			
			68017	35° 51' 01.034"	-070° 03' 50.703"	
			69515	35° 10' 40.196"	-069° 59' 28.923"	
			<b>NAVIGATION OFFSET APPLIED</b>			
			NRP - Stern		29.5m	
			NRP – COS		213.0m	
			NRP – CNG		385.00m	
			COS – CNG		184.00m	
			NRP – CMP		304.00m	
<b>Posnet locations &amp; remarks:</b> good - none - intermittent		<b>acoustics</b>		MGL1407.LMN		
Tailbuoy #1	GOOD	Gun string #1	GOOD	mg12010.RTCN		
Tailbuoy #2	none	Gun string #2	none			
Tailbuoy #3	none	Gun string #3	GOOD			
Tailbuoy #4	none	Gun string #4	GOOD			
				SP spacing:	50.0m	
<b>line status:</b>				complete		



<b>Seq# 014</b>		Line Name: <b>MGL1407MCS11A</b>	<b>NAVIGATION</b>	DATE: 2014-09-06	 
		Line Brg : <b>121.8 °</b>	<b>LINE LOGS</b>	JULIAN DAY: <b>249</b>	
CLIENT: Deborah Hutchinson - USGS		SURVEY: ECS 2D Seismic Mission		AREA: Eastern North America Margin between lat's 31N-40N	
DC SOL : 26.7 m	DEPTH SOL : 5356.3 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : 429.4 m	DEPTH EOL : 5404.6 m	NAVIGATION SYSTEM USED: SeaPath 200			
BSP SOL: 4.6 kts	FEATHER SOL: -73.0 TURN	NAVIGATION SYSTEM USED: POSMV			
BSP EOL: 4.3 kts	FEATHER EOL: -01.8 °	GRAVITY METER: BMG-II: used, SN223			
WEATHER	MAX FEATHER: 06.3 °	MAGNETOMETER: GeoMetrics: used			
WIND SOL: SSW 5.5 kts					
WIND EOL: SSW 10 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours
SEAS SOL: 1.0 m	16:00 – 04:00 utc =>	Alan Thompson	10:00 – 16:00 utc >	na	22:00 – 04:00 utc >
SEAS EOL: 1.0 m	04:00 – 16:00 utc =>	Mike Martello	16:00 – 22:00 utc >	na	04:00 – 10:00 utc >
		<b>COMMENTS</b>			
SP	UTC	EVENT			
74042	23:44	SOL	start of 2D acquisition 50m shot spacing, 8km streamer powered up – volume 6600 – record length 18 second		
			Streamer in turn at SOL		
74086	23:59	Midnight	last sp of day		
75441	07:49	XBT	Seq075		
76880	16:14	EOL	end of line		
			<b>VESSEL POSITION</b>		
			Shotpoints	Latitude (N / +)	Longitude (W / -)
			74042	33° 38' 32.379"	-071° 02' 49.572"
			76880	32° 58' 07.187"	-069° 46' 48.848"
			<b>NAVIGATION OFFSET APPLIED</b>		
			NRP - Stern	29.5m	
			NRP - COS	213.0m	
			NRP - CNG	385.00m	
			COS - CNG	184.00m	
			NRP - CMP	304.00m	
Posnet locations & remarks: good - none - intermittent			acoustics		
Tailbuoy #1	GOOD	Gun string #1	GOOD	OPERATIONAL	
Tailbuoy #2	none	Gun string #2	none		
Tailbuoy #3	none	Gun string #3	GOOD		
Tailbuoy #4	none	Gun string #4	GOOD		
			MGL1407.LMN		
			mgl2010.RTCN		
			SP spacing:	50.0m	
			<b>line status:</b>	<b>complete</b>	



<b>Seq# 016</b>		Line Name: <b>MGL1407MCS12B</b>		<b>NAVIGATION</b>		DATE: 2014-09-08		Lamont-Doherty Earth Observatory			
		Line Brg : <b>227.378 °</b>		<b>LINE LOGS</b>		JULIAN DAY: 251		COLUMBIA UNIVERSITY   EARTH INSTITUTE			
CLIENT: Deborah Hutchinson - USGS			SURVEY: ECS 2D Seismic Mission			AREA: Eastern North America Margin between lat's 31N-40N					
DC SOL : -33.1 m		DEPTH SOL : 5420.6 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary							
DC EOL : 572.7 m		DEPTH EOL : 5423.3 m		NAVIGATION SYSTEM USED: SeaPath 200							
BSP SOL: 4.7 kts		FEATHER SOL: 41.0 Turn		NAVIGATION SYSTEM USED: POSMV							
BSP EOL: 4.4 kts		FEATHER EOL: -04.2 °		GRAVITY METER: BMG-II: used, SN223							
WEATHER		MAX FEATHER: 09.2 °		MAGNETOMETER: GeoMetrics: used							
WIND SOL: S 4 kts		shift hours		shift leaders		shift hours		watch personnel			
WIND EOL: E 4.7 kts		16:00 - 04:00 utc =>		Alan Thompson		10:00 - 16:00 utc >		na			
SEAS SOL: 0.5 m		04:00 - 16:00 utc =>		Mike Martello		16:00 - 22:00 utc >		na			
SEAS EOL: < 1.0						04:00 - 10:00 utc >		na			
			<b>COMMENTS</b>								
SP			UTC			EVENT			<b>VESEL POSITION</b>		
81022			12:33			SOL			<b>Shotpoints</b>		
						start of 2D acquisition 50m shot spacing, 8km streamer powered up - volume 6600 - record length 18 second			<b>Latitude (N / +)</b>		
						Streamer in turn at SOL			<b>Longitude (W / -)</b>		
82206			19:16			XBT			81022		
						XBT - T5 seq 077			31° 24' 18.194"		
83016			23:59			Midnight			83408		
						Last sp of day			30° 40' 37.374"		
83408			02:22			EOL			-071° 00' 24.384"		
						end of line			<b>NAVIGATION OFFSET APPLIED</b>		
									NRP - Stern		
									29.5m		
									NRP - COS		
									213.0m		
									NRP - CNG		
									385.00m		
									COS - CNG		
									184.00m		
									NRP - CMP		
									304.00m		
Posnet locations & remarks: good - none - intermittent				acoustics				MGL1407.LMN			
Tailbuoy #1				GOOD Gun string #1				OPERATIONAL			
Tailbuoy #2				none Gun string #2				mg12010.RTCN			
Tailbuoy #3				none Gun string #3				SP spacing: 50.0m			
Tailbuoy #4				none Gun string #4				<b>line status: complete</b>			







<b>Seq# 019</b>		<b>Line Name:</b> MGL1407MCS15	<b>NAVIGATION</b>	<b>DATE:</b> 2014-09-10	<b>Lamont-Doherty Earth Observatory</b>
		<b>Line Brg :</b> 291.461 °	<b>LINE LOGS</b>	<b>JULIAN DAY:</b> 253	<b>COLUMBIA UNIVERSITY   EARTH INSTITUTE</b>
<b>CLIENT:</b> Deborah Hutchinson - USGS		<b>SURVEY:</b> ECS 2D Seismic Mission		<b>AREA:</b> Eastern North America Margin between lat's 31N-40N	
DC SOL : -4.4 m	DEPTH SOL : 5082.2 m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : -140.5 m	DEPTH EOL : 2741.9 m	NAVIGATION SYSTEM USED: SeaPath 200			
BSP SOL: 4.5 kts	FEATHER SOL: -18.8 °	NAVIGATION SYSTEM USED: POSMV			
BSP EOL: 4.5 kts	FEATHER EOL: 03.0 °	GRAVITY METER: BMG-II: used, SN223			
WEATHER	MAX FEATHER: -15.8 °	MAGNETOMETER: GeoMetrics: used			
WIND SOL: SW 8 kts					
WIND EOL: NW 8.3 kts	shift hours	shift leaders	shift hours	watch personnel	shift hours
SEAS SOL: 1.5 m	16:00 - 04:00 utc =>	Alan Thompson	10:00 - 16:00 utc >	na	22:00 - 04:00 utc >
SEAS EOL: 1.0 m	04:00 - 16:00 utc =>	Mike Martello	16:00 - 22:00 utc >	na	04:00 - 10:00 utc >
		<b>COMMENTS</b>			
SP	UTC	EVENT	start of 2D acquisition 50m shot spacing, 6km streamer powered up - volume 6560 - record length 18.0 second		
91010	14:52	SOL			
91167	15:49	XBT	XBT - T5 Seq086		
91568	18:10	XBT	XBT - T5 Seq087		
91854	19:48	XBT	XBT - T5 Seq088		
92241	22:00	XBT	XBT - T5 Seq089		
92545	23:42	XBT	XBT - T5 Seq090		
92596	23:59	midnight	last sp of day		
92871	01:32	XBT	XBT - T5 Seq091		
93234	03:34	XBT	XBT - T5 Seq092		
93610	05:44	XBT	XBT - T5 Seq093		
93889	07:23	XBT	XBT - T5 Seq094		
94228	09:22	XBT	XBT - T5 Seq095		
94574	11:20	XBT	XBT - T5 Seq096		
94911	13:13	XBT	XBT - T5 Seq097		
95246	15:07	XBT	XBT - T5 Seq098		
95420	16:05	XCTD	xctd		
	16:48	turn	Start of turn to seq 20 MCS16		
95575	16:59	EOL	end of line		
		<b>VESSEL POSITION</b>			
		Shotpoints      Latitude (N / +)      Longitude (W / -)			
FSP	91010	32° 27' 22.625"		-073° 38' 31.197"	
LSP	95575	33° 11' 06.162"		-075° 55' 41.084"	
		<b>NAVIGATION OFFSET APPLIED</b>			
		NRP - Stern	29.5m		
		NRP - COS	213.0m		
		NRP - CNG	385.00m		
		COS - CNG	184.00m		
		NRP - CMP	304.00m		
<b>Posnet locations &amp; remarks:</b> good - none - intermittent		acoustics		MGL1407.LMN	
Tailbuoy #1	GOOD	Gun string #1	GOOD	mg12010.RTCN	
Tailbuoy #2	none	Gun string #2	none	SP spacing: 50.0m	
Tailbuoy #3	none	Gun string #3	none	<b>line status:</b> complete	
Tailbuoy #4	none	Gun string #4	GOOD		

