

Seq# 001		Line Name: MGL1109_MCS01		NAVIGATION		DATE: 2011-06-08	
		Line Brg : 262.7°		LINE LOGS		JULIAN DAY: 159	
CLIENT: USGS/Chids				SURVEY: USECS			
MGL1109							
DC SOL : -21.9m DC EOL : 50.2m SMG SOL: 4.0 knots SMG EOL: 4.3 knots <u>WEATHER</u> WIND SOL: 16 knots WIND EOL: 12.4 knots SEAS SOL:1m SEAS EOL:1m		DEPTH SOL : 4059.5m DEPTH EOL : 4574.9m FEATHER SOL: 71.4° FEATHER EOL: 8.3° MAX FEATHER: 71.4°		NAVIGATION SYSTEM USED: C-Nav3050 - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV v3 GRAVITY METER: BMG-It: used, SN210 MAGNETOMETER: GeoMetrics: used MAG DEC USED : ????			
00:00 - 04:00 utc => David Ng 12:00 - 16:00 utc => David Martinson 04:00 - 08:00 utc => David Ng 16:00 - 20:00 utc => David Martinson 08:00 - 12:00 utc => David Martinson 20:00 - 00:00 utc => David Ng							
SP		TIME(UTC)		EVENT		COMMENTS	
924		15:28		FSP-FGSP		<div style="text-align: center;"> VESSEL POSITION Latitude (N) Longitude (E) FGSP 924 56° 50' 06.791" 148° 43' 58.851" LGSP 3188 56° 50' 41.020" 148° 34' 05.311" </div> <div style="text-align: center; margin-top: 10px;"> NAVIGATION OFFSET APPLIED NRP - Stern _____ NRP - COS _____ NRP - CNG (na) _____ COS - CNG (na) _____ NRP - CMP (na) _____ </div> <div style="font-size: small; margin-top: 10px;"> Note: LMN line parameter set to great circle line </div>	
3188		05:48		LSP/LGSP			
						<div style="text-align: center;"> P1 P2 MGL1109MCS01.0.p190 MGL1109MCS01.0.p294 </div>	
Postnet locations & remarks: good - none - intermittent				Acoustic remarks:			
Tailbuoy #1 na Gun string #1 good		Tailbuoy #2 na Gun string #2 good		<div style="text-align: center;"> line status: Complete </div>			
Tailbuoy #3 good Gun string #3 good		Tailbuoy #4 na Gun string #4 good					

Seq# 002		Line Name: MGL1109_MCS02		NAVIGATION		DATE: 2011-06-09		Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY LEAD111 1101 1101	
		Line Brg : 136 °		LINE LOGS		JULIAN DAY: 160			
CLIENT: USGS/Chids				SURVEY: USECS				MGL1109	
DC SOL : -84.4m				DEPTH SOL : 4733.3m				NAVIGATION SYSTEM USED: C-Nav3050 - Primary	
DC EOL : -97.6m				DEPTH EOL : 4052.9m				NAVIGATION SYSTEM USED: SeaPath 200	
SMG SOL: 5.2 knots				FEATHER SOL: 31.4 °				NAVIGATION SYSTEM USED: Pos MV v3	
SMG EOL: 4.6 knots				FEATHER EOL: 1.2 °				GRAVITY METER: BMG-II; used, SN210	
WEATHER				MAX FEATHER: 31.4 °				MAGNETOMETER: GeoMetrics; used	
WIND SOL: 7 knots								MAG DEC USED : ????	
WIND EOL: 1 knots				00:00 - 04:00 utc <=> David Ng		12:00 - 16:00 utc <=> David Martinson			
SEAS SOL: 0-1m				04:00 - 08:00 utc <=> David Ng		16:00 - 20:00 utc <=> David Martinson			
SEAS EOL: 0-1m				08:00 - 12:00 utc <=> David Martinson		20:00 - 00:00 utc <=> David Ng			
SP	TIME(UTC)	EVENT	COMMENTS						
922	9:40	FSP:FGSP	First shot point; First good shot point						
922	9:40	GPS	YIG3 knocked out						
6527	19:26	LSP:LGSP	Last shot point						
			VESSEL POSITION						
			Latitude (N) Longitude (E)						
			FGSP 922 56° 58' 33.589" 148° 23' 38.809"						
			LGSP 6527 55° 07' 43.933" 145° 20' 15.274"						
			NAVIGATION OFFSET APPLIED						
			NRP - Stern						
			NRP - COS						
			NRP - CNG (na)						
			COS - CNG (na)						
			NRP - CMP (na)						
			Note: LWN line parameter set to great circle line						
			P1 P2						
			MGL1109MCS02.0.p190 MGL1109MCS02.0.p204						
Postnet locations & remarks: good - none - intermittent			Acoustic remarks:			MGL1109MCS02.LM MGL1109MCS02.SCN(001) Langseth, RTCN			
Tailbuoy #1	n/a	Gun string #1	good				SP spacing: 50m		
Tailbuoy #2	n/a	Gun string #2	good				line status: Complete		
Tailbuoy #3	good	Gun string #3	good						
Tailbuoy #4	ok	Gun string #4	good						

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	P1	P2
	MGL1109MCS04A.0.p190	MGL1109MCS04A.0.p294

Seq# 006		Line Name: MGL1109_MCS05		NAVIGATION		DATE: 2011-06-12		Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY LEAD111 THE COLLEGE	
		Line Brg : 94.5 °		LINE LOGS		JULIAN DAY: 163			
CLIENT: USGS/Chlids				SURVEY: USECS				MGL1109	
DC SOL : -66.9m				DEPTH SOL : 4163.7m				NAVIGATION SYSTEM USED: C-Nav3050 - Primary	
DC EOL : -93.1m				DEPTH EOL : 3434.0m				NAVIGATION SYSTEM USED: SeaPath 200	
SMG SOL: 4.5 knots				FEATHER SOL: -9.8 °				NAVIGATION SYSTEM USED: C-Nav 2000	
SMG EOL: 4.4 knots				FEATHER EOL: -1.1 °				GRAVITY METER: BMG-II; used, SN210	
WEATHER				MAX FEATHER: -9.8 °				MAGNETOMETER: GeoMetrics; used	
WIND SOL: 16 knots								MAG DEC USED : 18.62°	
WIND EOL: 7.6 knots				00:00 - 04:00 utc <=> David Ng 12:00 - 16:00 utc <=> David Martinson					
SEAS SOL: 0-1				04:00 - 08:00 utc <=> David Ng 16:00 - 20:00 utc <=> David Martinson					
SEAS EOL: 0-1				08:00 - 12:00 utc <=> David Martinson 20:00 - 00:00 utc <=> David Ng					
SP	TIME(UTC)	EVENT	COMMENTS						
920	14:06	SOL	Start of line						
3823	01:51	Turn	First shot point of next leg						
6212	16:34	Turn	First shot point of next leg						
10194	16:43	EOL	End of line						
			VESSEL POSITION						
			Latitude (N) Longitude (E)						
			FGSP 920 55° 31' 24.414" 147° 23' 01.819"						
			LGSP 10194 55° 30' 57.199" 140° 05' 31.407"						
			NAVIGATION OFFSET APPLIED						
			NRP - Stern						
			NRP - COS						
			NRP - CNG (na)						
			COS - CNG (na)						
			NRP - CMP (na)						
			Note: LMN line parameter set to great circle line						
			P1 P2						
			MGL1109MCS05.0.p190 MGL1109MCS05.0.p204						
Postnet locations & remarks: good - none - intermittent			Acoustic remarks:			MGL1109MCS05.LM MGL1109MCS05.SCN(001) Langseth, RTCN			
Tailbuoy #1	n/a	Gun string #1	good				SP spacing: 50m		
Tailbuoy #2	n/a	Gun string #2	good				line status: Complete		
Tailbuoy #3	good	Gun string #3	good						
Tailbuoy #4	ok	Gun string #4	good						

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	MGL1109MCS09.0.p190	MGL1109MCS09.0.p294

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	P1	P2
	MGL1109MCS11.0.p190	MGL1109MCS11.0.p294

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Line Name: MGL1109_OBS01		NAVIGATION		DATE: 2011-06-19		Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY LIBRARY	
Line Brg : 300.9 °		LINE LOGS		JULIAN DAY: 170			
CLIENT: USGS/Chlids				SURVEY: USECS		MGL1109	
DC SOL : -29.0m				DEPTH SOL : 3457.1m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary	
DC EOL : 420.7m				DEPTH EOL : 3699.9m		NAVIGATION SYSTEM USED: SeaPath 200	
SMG SOL: 4.53 knots				FEATHER SOL: 66.5 °		NAVIGATION SYSTEM USED: C-Nav 2000	
SMG EOL: 4.8 knots				FEATHER EOL: -4.6 °		GRAVITY METER: BMG-II; used, SN210	
WEATHER				MAX FEATHER: 66.5 °		MAGNETOMETER: GeoMetrics; used	
WIND SOL: 13.9 NW knots						MAG DEC USED : 18.62°	
WIND EOL: 5.3 NW knots				00:00 - 04:00 utc <=> David Ng		12:00 - 16:00 utc <=> David Martinson	
SEAS SOL: 0-1m				04:00 - 08:00 utc <=> David Ng		16:00 - 20:00 utc <=> David Martinson	
SEAS EOL: 0-1m				08:00 - 12:00 utc <=> David Martinson		20:00 - 00:00 utc <=> David Ng	
SP	TIME(UTC)	EVENT	COMMENTS				
1023	15:52	SOL	Start of line				
1187	18:50	OBS	OBS101				
1329	21:13	OBS	OBS102				
1472	23:48	OBS	OBS103				
1614	02:19	OBS	OBS104				
1757	04:47	OBS	OBS105				
1900	07:16	OBS	OBS106				
2042	09:39	OBS	OBS107				
2178	11:55	EOL	End of line				
			VESSEL POSITION				
			Latitude (N) Longitude (E)				
			FGSP 1023 53° 37' 23.884" 139° 00' 44.124"				
			LGSP 2178 54° 24' 14.894" 141° 17' 55.451"				
			NAVIGATION OFFSET APPLIED				
			NRP - Stern				
			NRP - COS				
			NRP - CNG (na)				
			COS - CNG (na)				
			NRP - CMP (na)				
			Note: LMN line parameter set to great circle line				
			P1 P2				
			MGL1109OBS01.0.p190 MGL1109OBS01.0.p294				
Postnet locations & remarks: good - none - intermittent			Acoustic remarks:		MGL1109OBS01.LM MGL1109OBS01.SCN(001) Langseth.RTCN		
Tailbuoy #1	na	Gun string #1	good	SP spacing: 150m			
Tailbuoy #2	na	Gun string #2	good	line status: Complete			
Tailbuoy #3	intermittent	Gun string #3	good				
Tailbuoy #4	na	Gun string #4	good				

Seq# 017		Line Name: MGL1109_MCS13		NAVIGATION		DATE: 2011-06-21		Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY LEAD111 THE COLLEGE	
		Line Brg : 283.43 °		LINE LOGS		JULIAN DAY: 172			
CLIENT: USGS/Chids				SURVEY: USECS				MGL1109	
DC SOL : 6.2m				DEPTH SOL : 3533.1m				NAVIGATION SYSTEM USED: C-Nav3050 - Primary	
DC EOL : -396.0m				DEPTH EOL : 4171.6m				NAVIGATION SYSTEM USED: SeaPath 200	
SMG SOL: 3.8 knots				FEATHER SOL: -51.4 °				NAVIGATION SYSTEM USED: C-Nav 2000	
SMG EOL: 5.4 knots				FEATHER EOL: -5.5 °				GRAVITY METER: BMG-II; used, SN210	
WEATHER				MAX FEATHER: -51.4 °				MAGNETOMETER: GeoMetrics; used	
WIND SOL: 12.5 NW knots								MAG DEC USED : 18.62°	
WIND EOL: 17.1 N knots				00:00 - 04:00 utc <=> David Ng 12:00 - 16:00 utc <=> David Martinson					
SEAS SOL: 0-1m				04:00 - 08:00 utc <=> David Ng 16:00 - 20:00 utc <=> David Martinson					
SEAS EOL: 0-1m				08:00 - 12:00 utc <=> David Martinson 20:00 - 00:00 utc <=> David Ng					
SP	TIME(UTC)	EVENT	COMMENTS						
1050	15:50	SOL	Start of line						
4745	12:15	Sonobuoy	JD 173, Sonobuoy launch.						
7292	02:20	GPS	Un-KO Seapath						
7447	03:08	GPS	KO Seapath						
8027	06:07	EOL	End of line						
			VESSEL POSITION						
			Latitude (N) Longitude (E)						
			FGSP 1050 56° 35' 58.342" 141° 01' 20.195"						
			LGSP 8027 57° 11' 48.106" 146° 38' 37.501"						
			NAVIGATION OFFSET APPLIED						
			NRP - Stern						
			NRP - COS						
			NRP - CNG (na)						
			COS - CNG (na)						
			NRP - CMP (na)						
			Note: LMN line parameter set to great circle line						
			P1 P2						
			MGL1109MCS13.0.p190 MGL1109MCS13.0.p204						
Postnet locations & remarks: good - none - intermittent			Acoustic remarks:			MGL1109MCS13.LM MGL1109MCS13.SCN(001) Langseth RTCN			
Tailbuoy #1	na	Gun string #1	none				SP spacing: 50m		
Tailbuoy #2	na	Gun string #2	good				line status: Complete		
Tailbuoy #3	off	Gun string #3	good						
Tailbuoy #4	na	Gun string #4	good						

	P1	P2
	MGL1109MCS14.0.p190	MGL1109MCS14.0.p294

Seq# 010		Line Name: MGL1109_MCS15		NAVIGATION		DATE: 2011-06-24		Lamont-Doherty Earth Observatory	
		Line Brg : 325.873 °		LINE LOGS		JULIAN DAY: 175		CALIFORNIA UNIVERSITY LOS ANGELES	
CLIENT: USGS/Chlids			SURVEY: USECS			MGL1109			
DC SOL : 83.0m			DEPTH SOL : 4120.6m			NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : 5.6m			DEPTH EOL : 209.4m			NAVIGATION SYSTEM USED: SeaPath 200			
SMG SOL: 5.9 knots			FEATHER SOL: -43.5 °			NAVIGATION SYSTEM USED: C-Nav 2000			
SMG EOL: 4.8 knots			FEATHER EOL: -7.4 °			GRAVITY METER: BMG-II; used, SN210			
WEATHER			MAX FEATHER: -43.5 °			MAGNETOMETER: GeoMetrics; used			
WIND SOL: 14.3 SE knots						MAG DEC USED : 18.62°			
WIND EOL: 7.8 E knots			00:00 - 04:00 utc <=> David Ng			12:00 - 16:00 utc <=> David Martinson			
SEAS SOL: 1m			04:00 - 08:00 utc <=> David Ng			16:00 - 20:00 utc <=> David Martinson			
SEAS EOL: 0.1m			08:00 - 12:00 utc <=> David Martinson			20:00 - 00:00 utc <=> David Ng			
SP	TIME(UTC)	EVENT	COMMENTS						
918	23:37	SOL	Start of line - updated waypoints						
919	23:37	FGSP	First good shot point						
4799	21:53	EOL	End of line						
			VESSEL POSITION						
			Latitude (N) Longitude (E)						
			FGSP 919 55° 04' 10.479" 150° 21' 45.025"						
			LGSP 4799 56° 30' 00.064" 152° 07' 47.678"						
			NAVIGATION OFFSET APPLIED						
			NRP - Stern						
			NRP - COS						
			NRP - CNG (na)						
			COS - CNG (na)						
			NRP - CMP (na)						
			Note: LMN line parameter set to great circle line						
			P1 P2						
			MGL1109MCS15.0.p190 MGL1109MCS15.0.p204						
Postnet locations & remarks: good - none - intermittent			Acoustic remarks:			MGL1109MCS15.LM MGL1109MCS15.SCN(001) Langseth.RTCN			
Tailbuoy #1	na	Gun string #1	good				SP spacing: 50m		
Tailbuoy #2	na	Gun string #2	good				line status: Incomplete		
Tailbuoy #3	off	Gun string #3	good						
Tailbuoy #4	na	Gun string #4	none						