

Line Name: MGL1110_OBS03		NAVIGATION		DATE: 2011-07-03	Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE
Seq# 001		Line Brg : 150.2 °		LINE LOGS	
CLIENT: NSF/Shillington		SURVEY: Gulf of Alaska/Northeast Pacific		MGL1110	
DC SOL : 134.2m	DEPTH SOL : 59.3m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : -2.0m	DEPTH EOL : 4461.0m	NAVIGATION SYSTEM USED: SeaPath 200			
SMG SOL: 5.0 knots	FEATHER SOL: na °	NAVIGATION SYSTEM USED: Pos MV v3			
SMG EOL: 4.9 knots	FEATHER EOL: na °	GRAVITY METER: BMG-II: used, SN210			
<b>WEATHER</b>	MAX FEATHER: na °	MAGNETOMETER: GeoMetrics: used			
WIND SOL: 15.6 W knots		MAG DEC USED : 13.81°			
WIND EOL: 5 N knots knots	00:00 – 06:00 z => Martello, Becel, Deleschlose °	06:00 – 12:00 z =>	Martello, Li, Shillington		
SEAS SOL: <1m	12:00 – 18:00 z => Eaton, Kuehn, Nedimovic	18:00 – 24:00 z =>	Eaton, Farkas, Webb		
SEAS EOL: <1m					
SP	TIME(UTC)	EVENT	COMMENTS		
1004	11:17	FGSP	Start of line after reboot of Spectra		
1062	13:14	OBS	Crossing OBS321		
1113	14:58	OBS	Crossing OBS320		
1121	15:14	volume	power down for mammal		
1128	15:28	speed	reduce vessel speed d/t mammal in area		
1150	16:39	speed	resume shooting speed		
1164	17:08	OBS	Crossing OBS319		
1168	17:15	PAM	Recover Pam		
1168	17:16	Maggie	Recover Maggie		
1190	18:00	Pam/Maggie	Both Pam and Maggie are deployed again		
1196	18:14	Multibeam	Shutdown for "Bist" test		
1202	18:26	Multibeam	operational again		
1215	18:54	OBS	Crossing OBS318		
1266	20:48	OBS	Crossing OBS317		
1318	22:44	OBS	Crossing OBS316		
1348	00:00	MSP	Midnight Shot Point		
1369	00:50	OBS	Crossing OBS315		
1422	02:39	OBS	Crossing OBS314		
1471	04:29	OBS	Crossing OBS313		
1522	06:02	OBS	Crossing OBS312		
1573	07:41	OBS	Crossing OBS311		
1582	07:58	Multibeam	reboot		
1585	08:03	Multibeam	operational again		
1625	09:25	OBS	Crossing OBS310		
1637	09:48	Multibeam	No display - message 'no license'		
1637	09:49	Multibeam	Display returned		
1676	11:07	OBS	Crossing OBS309		
1694	11:47	Maggie	Stop receiving data		
1709	12:09	Maggie	start retrieval		
1712	12:18	Maggie	on board - cable suffered skin damage, cover with tape/scotchkote		
1718	12:32	Maggie	Test okay - redeploy		
1722	12:39	Maggie	operational in place		
1727	12:48	OBS	Crossing OBS308		
1780	14:35	OBS	Crossing OBS307		
1852	17:04	OBS	Crossing OBS306		
1892	18:24	OBS	Crossing OBS305		
1943	20:07	OBS	Crossing OBS304		
1994	21:51	OBS	Crossing OBS303		
2045	23:33	OBS	Crossing OBS302		
2096	01:22	OBS	Crossing OBS301		
2166	03:46	EOL	End of Line		
Posnet locations & remarks: good - none - intermittent			Acoustic	remarks:	
Tailbuoy #1	na	Gun string #1	good	good	
		Gun string #2	good	good	
		Gun string #3	good	good	
		Gun string #4	good	none	
MGL1110_OBS03			Langseth.RTCN		
SP spacing: 310m					
line status:			complete		

VESSEL POSITION			
	Latitude (N)	Longitude (W)	
FGSP	1004 56° 20' 31.745"	158° 03' 15.871"	
LGSP	2166 53 30' 12.588"	155 21' 19.650"	
NAVIGATION OFFSET APPLIED			
NRP - Stern	29.5		
NRP - COS	282		
NRP - CNG (na)	465		
COS - CNG (na)	183		
NRP - CMP (na)	368		

Note: LMN line parameter set to great circle line

P1 P2  
MGL1110\_OBS03.p19c MGL1110\_OBS03.p294

<b>Seq# 002</b>	<b>Line Name:</b> MGL1110_OBS05T	<b>NAVIGATION</b>	<b>DATE:</b> 2011-07-08													
	<b>Line Brg :</b> 39 °	<b>LINE LOGS</b>	<b>JULIAN DAY:</b> 189	COLUMBIA UNIVERSITY   EARTH INSTITUTE												
<b>CLIENT:</b> NSF/Shilligton		<b>SURVEY:</b> Gulf of Alaska/Northeast Pacific		<b>MGL1110</b>												
DC SOL : -149.0m	DEPTH SOL : 67.5m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary														
DC EOL : 1199.4m	DEPTH EOL : 57.2m	NAVIGATION SYSTEM USED: SeaPath 200														
SMG SOL: 5.2 knots	FEATHER SOL: na °	NAVIGATION SYSTEM USED: Pos MV v3														
SMG EOL: 5.0 knots	FEATHER EOL: na °	GRAVITY METER: BMG-II: used, SN210														
<b>WEATHER</b>	MAX FEATHER: na °	MAGNETOMETER: GeoMetrics: used														
WIND SOL: S @ 21 knots		MAG DEC USED : 13.81°														
WIND EOL: 20.0 knots	00:00 – 06:00 z => Martello, Becel, Deleschuse °	06:00 – 12:00 z => Martello, Li, Shillington														
SEAS SOL: 1m	12:00 – 18:00 z => Eaton, Kuehn, Nedimovic	18:00 – 24:00 z => Eaton, Farkas, Webb														
SEAS EOL: 1m																
<b>SP</b>	<b>TIME(UTC)</b>	<b>EVENT</b>	<b>COMMENTS</b>													
1010	2056	SOL	Start of Line, 4950 cu in													
1015	2107	source	String3 deployed													
1016	2108	Pam	Pam deployed													
1016	2108	source	Full volume 6600 cu in													
1039	2158	EOL	stop line													
<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="3" style="text-align: center;">VESSEL POSITION</th> </tr> <tr> <th></th> <th style="text-align: center;">Latitude (N)</th> <th style="text-align: center;">Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FGSP</td> <td style="text-align: center;">1010 55° 03' 11.860"</td> <td style="text-align: center;">160° 52' 49.283"</td> </tr> <tr> <td>LGSP</td> <td style="text-align: center;">1039 55° 06' 34.816"</td> <td style="text-align: center;">160° 46' 35.293"</td> </tr> </tbody> </table>					VESSEL POSITION				Latitude (N)	Longitude (W)	FGSP	1010 55° 03' 11.860"	160° 52' 49.283"	LGSP	1039 55° 06' 34.816"	160° 46' 35.293"
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<p>Note: LMN line parameter set to great circle line.</p>																
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MGL1110_OBS05T.p190	MGL1110_OBS05T.p294															
Posnet locations & remarks: good - none - intermittent		<u>Acoustic</u>	<u>remarks:</u>													
Tailbuoy #1	na	Gun string #1 good	good													
		Gun string #2 good	good													
		Gun string #3 good	good													
		Gun string #4 good	???													
MGL1110_OBS05T		Langseth.RTCN														
SP spacing: 310m		<b>line status:</b> transit line														

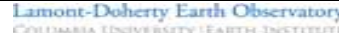






<b>Seq# 006</b>	Line Name: <b>MGL1110_MCSHOPE</b>	<b>NAVIGATION</b>	DATE: 2011-07-15	<small>Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE</small>																				
	Line Brg : <b>163.6 °</b>	<b>LINE LOGS</b>	JULIAN DAY: <b>196</b>																					
CLIENT: NSF/ Schillington		SURVEY: Gulf of Alaska, Northeast Pacific		<b>MGL1110</b>																				
DC SOL :	DEPTH SOL :	NAVIGATION SYSTEM USED: C-Nav3050 - Primary																						
DC EOL :	DEPTH EOL :	NAVIGATION SYSTEM USED: SeaPath 200																						
SMG SOL:	FEATHER SOL:	NAVIGATION SYSTEM USED: Pos MV v3																						
SMG EOL:	FEATHER EOL:	GRAVITY METER: BMG-II: used, SN210																						
<u>WEATHER</u>	MAX FEATHER:	MAGNETOMETER: GeoMetrics: used																						
WIND SOL:		MAG DEC USED : 13.81°																						
WIND EOL:	<b>00:00 - 06:00 z =&gt;</b> Martello, Becel, Deleschuse, Zietman °	<b>06:00 - 12:00 z =&gt;</b>	Martello, Li, Shillington, Perls, Wessbecker																					
SEAS SOL:	<b>12:00 - 18:00 z =&gt;</b> Eaton, Kuehn, Nedimovic, Hostetler	<b>18:00 - 24:00 z =&gt;</b>	Eaton, Farkas, Webb, Eddy																					
SEAS EOL:																								
<b>SP</b>	<b>TIME(UTC)</b>	<b>EVENT</b>	<b>COMMENTS</b>																					
			NOT TO BE PROCESSED - troubleshooting timing problem Spectra to Syntak																					
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Posnet locations & remarks: good - none - intermittent		Acoustic remarks:																						
Tailbuoy #1	good	Gun string #1	good	G1T4 - not operational																				
Tailbuoy #2	intermittent	Gun string #2	good																					
		Gun string #3	good																					
		Gun string #4	good																					
		MGL1110.LMN		MGL1110.LMN																				
		2D_2x8.SCN(001)		mgl2010.RTCN																				
		SP spacing: 62.5m																						
		<b>line status:</b>	<b>DO NOT PROCESS</b>																					



<b>Seq# 008</b>	<b>Line Name:</b> MGL1110_MCS05B	<b>NAVIGATION</b>	<b>DATE:</b> 2011-07-16																															
	<b>Line Brg :</b> 163.6 °	<b>LINE LOGS</b>	<b>JULIAN DAY:</b> 197																															
<b>CLIENT: NSF/Bangs</b>		<b>SURVEY: CRISP 3D</b>	<b>MGL1106</b>																															
DC SOL : 530.0m	DEPTH SOL : 67.8m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary																																
DC EOL : -1253.0m	DEPTH EOL : 4678.0m	NAVIGATION SYSTEM USED: SeaPath 200																																
SMG SOL: 4.5 knots	FEATHER SOL: 136.9 °	NAVIGATION SYSTEM USED: Pos MV v3																																
SMG EOL: 4.5 knots	FEATHER EOL: 0.7 °	GRAVITY METER: BMG-II: used, SN210																																
<b>WEATHER</b>	MAX FEATHER: 13.7 °	MAGNETOMETER: GeoMetrics: used																																
WIND SOL: 11 W knots		MAG DEC USED : 13.81°																																
WIND EOL: 14 sw knots	00:00 – 06:00 z => Martello, Becel, Deleschlu, Zietman °	06:00 – 12:00 z => Martello, Li, Shillington, Perls, Wessbecker																																
SEAS SOL: 1	12:00 – 18:00 z => Eaton, Kuehn, Nedimovic, Hostetler	18:00 – 24:00 z => Eaton, Farkas, Webb, Eddy																																
SEAS EOL: 3m																																		
<b>SP</b>	<b>TIME(UTC)</b>	<b>EVENT</b>	<b>COMMENTS</b>																															
983	0722	SOL	SOL - Birds AB23 - 27 below target depth 9m due to turn																															
1049	0753	OBS	Cross obs521																															
1060	0758	depth	Both streamers at depth																															
1100	0817	streamers	Out of turn																															
1116	0825	tailbuoy2	Knocked out of configuration - intermittent																															
1253	0936	OBS	Cross obs520																															
1458	1108	OBS	Cross obs519																															
1661	1242	OBS	Cross obs518																															
1866	1411	OBS	cross obs517																															
2070	1540	OBS	cross OBS516																															
2274	1706	OBS	cross OBS515																															
2419	1812	Spectra	Main NCN lock-up																															
2453	1828	Spectra	Main NCN working again																															
2478	1840	OBS	cross obs514																															
2682	2021	OBS	Cross OBS513																															
2886	2242	OBS	Cross OBS512																															
3061	2359	midnight	last shot point of day																															
3091	0017	OBS	Cross OBS511																															
3295	0219	OBS	Cross OBS510																															
3515	0412	OBS	Cross OBS509																															
4115	0834	OBS	Cross OBS508																															
4318	1013	OBS	Cross OBS507																															
4522	1155	OBS	Cross OBS506																															
4726	1337	OBS	Cross OBS505																															
4931	1515	OBS	Cross OBS504																															
5135	1654	OBS	Cross OBS503																															
5294	1810	MMO	Last good shot d/t whale sighting																															
5339	1833	OBS	Cross OBS502																															
5358	1843	source	start ramp up																															
5394	1903	source	First sp with full volume, resuming normal speed																															
5542	2016	OBS	Cross OBS501																															
5613	2057	EOL	End of Line - birds at 9m for turn																															
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MGL1110_MCS05B.p19	MGL1110_MCS05B.p294																																	
<b>Posnet locations &amp; remarks:</b> good - none - intermittent		<b>Acoustic remarks:</b>		MGL1110.LMN																														
Tailbuoy #1	good	Gun string #1	good	2D_2x8.SCN(001)																														
Tailbuoy #2	intermittent	Gun string #2	good	mg12010.RTCN																														
		Gun string #3	good	SP spacing: 62.5m																														
		Gun string #4	good	<b>line status:</b>																														









<b>Seq# 012</b>		Line Name: <b>MGL1110_MCS03T</b>		<b>NAVIGATION</b>	DATE: 2011-07-21	<b>Lamont-Doherty Earth Observatory</b> <small>COLUMBIA UNIVERSITY   EARTH INSTITUTE</small>
		Line Brg : <b>338.5 °</b>		<b>LINE LOGS</b>	JULIAN DAY: <b>202</b>	
CLIENT: NSF/Shillington		SURVEY: Gulf of Alaska, Northeast Pacific			MGL1110	
DC SOL : 1974.1m		DEPTH SOL : 116.5m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary		
DC EOL : -311.1m		DEPTH EOL : 156.0m		NAVIGATION SYSTEM USED: SeaPath 200		
SMG SOL: 4.3 knots		FEATHER SOL: -31.7 °		NAVIGATION SYSTEM USED: Pos MV v3		
SMG EOL: 3.9 knots		FEATHER EOL: 11.7 °		GRAVITY METER: BMG-II: used, SN210		
<u>WEATHER</u>		MAX FEATHER: 11.7 °		MAGNETOMETER: GeoMetrics: used		
WIND SOL: 17. knots				MAG DEC USED : 13.81°		
WIND EOL: 8.9 knots		00:00 – 06:00 z => Martello, Becel, Deleschuse, Zietman °		06:00 – 12:00 z => Martello, Li, Shillington, Perls, Wessbecher		
SEAS SOL: 1m		12:00 – 18:00 z => Eaton, Kuehn, Nedimovic, Hostetler		18:00 – 24:00 z => Eaton, Farkas, Webb, Eddy		
SEAS EOL: 1m						
SP	TIME(UTC)	EVENT	COMMENTS			
1089	0340	SOL	SOL			
1095	0343	speed	Slowing down to let vessel cross the bow			
1106	0350	speed	Resume normal operations speed			
1379	0614	birds	Started turn to next line MGL1110_MCS03, streamer 2birds brought to 9m			
1395	0623	EOL	EOL line ended due to turn noise			
			VESSEL POSITION			
			Latitude (N)		Longitude (W)	
FGSP	1089		56° 07' 55.701"	157° 56' 18.839"		
LGSP	1395		56° 17' 22.053"	158° 05' 12.226"		
			NAVIGATION OFFSET APPLIED (m)			
NRP - Stern			29.5			
NRP - COS			282			
NRP - CNG			465			
COS - CNG			183			
NRP - CMP			368			
Note: LMN line parameter set to great circle line						
			P1		P2	
			MGL1110_MCS03T.p19; MGL1110_MCS03T.p294			
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		MGL1110.LMN		
Tailbuoy #1	good	Gun string #1	good	2D_2x8.SCN(001)		
Tailbuoy #2	intermittent	Gun string #2	good	mg12010.RTCN		
		Gun string #3	good	SP spacing: 62.5m		
		Gun string #4	good	line status: <b>Line complete</b>		

Line Name: MGL1110_MCS03		NAVIGATION		DATE: 2011-07-21	Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE
Line Brg : 155 °		LINE LOGS		JULIAN DAY: 202	
CLIENT: NSF/Shillington		SURVEY: Gulf of Alaska, Northeast Pacific		MGL1110	
DC SOL : 53.0m	DEPTH SOL : 229.2m	NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : -15.6m	DEPTH EOL : 4495.6m	NAVIGATION SYSTEM USED: SeaPath 200			
SMG SOL: 4.9 knots	FEATHER SOL: 106.1 °	NAVIGATION SYSTEM USED: Pos MV v3			
SMG EOL: 4.1 knots	FEATHER EOL: 2.1 °	GRAVITY METER: BMG-II: used, SN210			
<b>WEATHER</b>	MAX FEATHER: 6.6 °	MAGNETOMETER: GeoMetrics: used			
WIND SOL: 10.5 knots		MAG DEC USED : 13.81°			
WIND EOL: 12 knots	00:00 – 06:00 z => Martello, Becel, Deleschuse, Zietman °	06:00 – 12:00 z =>	Martello, Li, Shillington, Perls, Wessbecher		
SEAS SOL: 1m	12:00 – 18:00 z => Eaton, Kuehn, Nedimovic, Hostetler	18:00 – 24:00 z =>	Eaton, Farkas, Webb, Eddy		
SEAS EOL: 4m					
SP	TIME(UTC)	EVENT	COMMENTS		
1110	0712	SOL	SOL - Streamer 2 birds set to 9m while cable is still turning		
1114	0726	Birds	Streamer 2 birds set to depth 12m		
1220	0801	streamers	Turn out of both streamers <13degrees feather		
1303	0839	OBS	Cross OBS321		
	1026	pam	retrieve Pam d/t bump		
	1040	pam	pam deployed		
	1055	pam	pam on board - bumping on gun string umbilical		
1557	1037	OBS	Cross obs320		
1810	1236	OBS	Cross OBS319		
2064	1442	OBS	Cross OBS318		
2318	1641	OBS	Cross OBS317		
	1710	PAM	Pam fully deployed		
2572	1834	OBS	Cross OBS316		
2825	2028	OBS	Cross OBS315		
3079	2222	OBS	Cross OBS314		
3279	2359	MSP	Midnight Shot point JD202		
3333	0028	OBS	Cross OBS313		
3533	0206	Spectra	NCC lockup - no nav data recorded, but shot data recorded		
3553	0216	Spectra	NCC restarted - operations as normal		
3587	0232	OBS	Cross OBS312		
3840	0446	OBS	Cross OBS311		
4032	0632	Syntrak	recording system crash		
4046	0641	Syntrak	recording system operational		
4094	0706	OBS	Cross OBS310		
	0741	Knudson	lost bottom track		
	0751	Knudson	tracking again		
	0824	maggie	Retrieve to prevent damage in high swell/seas.		
4348	0908	OBS	Cross OBS309		
	1032	XBT	Raising flumes d/t weather to prevent damage. No more drops for now		
4601	1108	OBS	Cross OBS308		
1247	1311	Streamer1	stopped acquiring data		
4866	1311	OBS	Cross OBS307		
5223	1620	OBS	Cross OBS306		
5430	1809	streamer1	Set to 12m		
5420	1825	OBS	Cross OBS305		
5607	1938	ncc lockup	sp 5608, restored 5624		
5673	2030	OBS	Cross OBS304		
5702	2045	SYNTRAK	Syntrak crash, restarted, broughtonline 5741		
5927	2213	OBS	Cross OBS303		
6150	2359	MSP	Midnight Shot Point JD203		
6182	0014	OBS	Cross OBS02		
6434	0210	OBS	Cross OBS01		
6478	0232	EOL	EOL		
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		MGL1110.LMN 2D_2x8.SCN(001) mgl2010.RTCN	
Tailbuoy #1	good	Gun string #1	good	G1T4 - not operational	
Tailbuoy #2	intermittent	Gun string #2	good		
		Gun string #3	good		
		Gun string #4	good		
SP spacing: 62.5m		line status: Line complete			

VESSEL POSITION			
		Latitude (N)	Longitude (W)
FGSP	1110	56° 17' 48.019"	158° 00' 21.865"
LGSP	6478	53° 39' 12.531"	155° 29' 13.911"
NAVIGATION OFFSET APPLIED (m)			
NRP - Stern	29.5		
NRP - COS	282		
NRP - CNG	465		
COS - CNG	183		
NRP - CMP	368		

Note: LMN line parameter set to great circle line

P1 P2  
MGL1110\_MCS03.p19C MGL1110\_MCS03.p294



<b>Line Name:</b> MGL1110_MCS23B		<b>NAVIGATION</b>		<b>DATE:</b> 2011-07-23			
<b>Line Brg :</b> 0 °		<b>LINE LOGS</b>		<b>JULIAN DAY:</b> 204		<small>COLUMBIA UNIVERSITY   EARTH INSTITUTE</small>	
<b>Seq# 015</b>		<b>CLIENT:</b> NSF/Shillington		<b>SURVEY:</b> Gulf of Alaska, Northeast Pacific		<b>MGL1110</b>	
DC SOL : 138.5m		DEPTH SOL : 4526.9m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : 678.0m		DEPTH EOL : 4814.0m		NAVIGATION SYSTEM USED: SeaPath 200			
SMG SOL: 4.2 knots		FEATHER SOL: 92.2 (in turn) °		NAVIGATION SYSTEM USED: Pos MV v3			
SMG EOL: 4.1 knots		FEATHER EOL: 4.1 °		GRAVITY METER: BMG-II: used, SN210			
<b>WEATHER</b>		MAX FEATHER: 4.5 °		MAGNETOMETER: GeoMetrics: used			
WIND SOL: SW 22.1 knots				MAG DEC USED : 13.81°			
WIND EOL: W 14 knots		00:00 – 06:00 z => Martello, Becel, Deleschuse, Zietman °		06:00 – 12:00 z => Martello, Li, Shillington, Perls, Wessbecher			
SEAS SOL: 2m		12:00 – 18:00 z => Eaton, Kuehn, Nedimovic, Hostetler		18:00 – 24:00 z => Eaton, Farkas, Webb, Eddy			
SEAS EOL: 3m							
<b>SP</b>	<b>TIME(UTC)</b>	<b>EVENT</b>	<b>COMMENTS</b>				
1066	1345	SOL	Start of line with streamers in turn.				
	1510	PAM	Retreive PAM for inspection				
	1527	PAM	PAM deployed, online				
1316	1547	MMO	Powered down for whale				
	1724	Ramp Up	Ramp up started				
	1725	Ramp Up	Ramp up aborted - mammel reentered exclusion zone				
1541	1806	MMO	SHUT DOWN - rare mammel sighting				
	1844	Source	Mitigation gun firing				
1658	1912	Ramp Up	Ramp up started				
1719	1942	Ramp Up	Ramp up complete				
2029	2214	EOL	EOL - Telemetry errors intermittent, however data cable still online				
				<b>VESSEL POSITION</b>			
				Latitude (N)      Longitude (W)			
				FGSP	1066	53° 15' 12.647"	156° 29' 52.529"
				LGSP	2029	53° 47' 39.471"	156° 29' 22.959"
				<b>NAVIGATION OFFSET APPLIED (m)</b>			
				NRP - Stern	29.5		
				NRP - COS	282		
				NRP - CNG	465		
				COS - CNG	183		
				NRP - CMP	368		
Note: LMN line parameter set to great circle line							
				<p><b>P1</b>                      <b>P2</b></p> <p>MGL1110_MCS23B.p19   MGL1110_MCS23B.p294</p>			
<b>Posnet locations &amp; remarks:</b> good - none - intermittent		<b>Acoustic remarks:</b>		MGL1110.LMN                      2D_2x8.SCN(001)                      mgl2010.RTCN			
Tailbuoy #1	good	Gun string #1	good	G1T4 - not operational			
Tailbuoy #2	intermittent	Gun string #2	good	SP spacing:                      62.5m			
		Gun string #3	good	<b>line status:</b> Line complete			
		Gun string #4	good				







<b>Seq# 018</b>		Line Name: <b>MGL1110_MCS02</b>		<b>NAVIGATION</b>		DATE: 2011-07-26		<small>Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE</small>			
		Line Brg : <b>325.6 °</b>		<b>LINE LOGS</b>		JULIAN DAY: <b>205</b>					
CLIENT: NSF/Shillington				SURVEY: Gulf of Alaska, Northeast Pacific				<b>MGL1110</b>			
DC SOL : 42.8m		DEPTH SOL : 4254.5m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary							
DC EOL : 17.6m		DEPTH EOL : 69.0m		NAVIGATION SYSTEM USED: SeaPath 200							
SMG SOL: 4.4 knots		FEATHER SOL: -36.0 °		NAVIGATION SYSTEM USED: Pos MV v3							
SMG EOL: 4.4 knots		FEATHER EOL: -3.3 °		GRAVITY METER: BMG-II: used, SN210							
<b>WEATHER</b>		MAX FEATHER: -13.4 °		MAGNETOMETER: GeoMetrics: used							
WIND SOL: W 26.8 knots				MAG DEC USED : 13.81°							
WIND EOL: calm knots		00:00 – 06:00 z => Martello, Becel, Deleschuse, Zietman °		06:00 – 12:00 z => Martello, Li, Shillington, Perls, Wessbecher							
SEAS SOL: 4.0m		12:00 – 18:00 z => Eaton, Kuehn, Nedimovic, Hostetler		18:00 – 24:00 z => Eaton, Farkas, Webb, Eddy							
SEAS EOL: 1m											
<b>SP</b>	<b>TIME(UTC)</b>	<b>EVENT</b>	<b>COMMENTS</b>								
1018	1123	SOL	Start of line with streamers in turn								
1018	1123	turn	end of turn								
1145	1222	streamer1	now set to 9m depth								
1474	1504	maggie	deployed and operational								
1497	1516	pam	deployed and operational								
2611	2359	MSP	Midnight Shot point								
2275	0500	MMO	Power down for seal								
2309	0516	SOURCE	Ramp up started								
3371	0542	SOURCE	Ramp up complete								
4606	1509	Dogleg	Change of course made good to 329.1 degrees								
4926	1723	MMO	Power down for whale to 40cu in.								
	1725	speed	reduce tension to 2700lbs								
	1800	turn	Start turn to stbd to pick up missed data								
5005	1800	EOL	End of line								
			Last good sp 4925								
				<b>VESEL POSITION</b>							
				Latitude (N)		Longitude (W)					
				FGSP	1018	54° 30' 56.449"	153° 22' 03.786"				
				LGSP	4925	56° 18' 48.899"	155° 34' 29.124"				
				<b>NAVIGATION OFFSET APPLIED (m)</b>							
				NRP - Stern	29.5						
				NRP - COS	282						
				NRP - CNG	465						
				COS - CNG	183						
				NRP - CMP	368						
				Note: LMN line parameter set to great circle line							
				<b>P1</b>		<b>P2</b>					
				MGL1110_MCS02.p19C		MGL1110_MCS02.p294					
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		MGL1110.LMN		2D_2x8.SCN(001)		mgl2010.RTCN			
Tailbuoy #1	good	Gun string #1	none	G1T4 - not operational		SP spacing: 62.5m					
Tailbuoy #2	intermittent	Gun string #2	good								
		Gun string #3	good								
		Gun string #4	good								
				<b>line status:</b>		<b>Incomplete</b>					

<b>Seq# 019</b>		<b>Line Name: MGL1110_MCS02R</b>		<b>NAVIGATION</b>		<b>DATE: 2011-07-26</b>	
		<b>Line Brg : 329.1 °</b>		<b>LINE LOGS</b>		<b>JULIAN DAY: 207</b>	
<b>CLIENT: NSF/Shillington</b>			<b>SURVEY: Gulf of Alaska, Northeast Pacific</b>			<b>MGL1110</b>	
DC SOL : 639.8m		DEPTH SOL : 49.7m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary			
DC EOL : -18.7m		DEPTH EOL : 101.1m		NAVIGATION SYSTEM USED: SeaPath 200			
SMG SOL: 4.1 knots		FEATHER SOL: 123.5 In turn °		NAVIGATION SYSTEM USED: Pos MV v3			
SMG EOL: 3.9 knots		FEATHER EOL: -3.7 in turn °		GRAVITY METER: BMG-II: used, SN210			
<b>WEATHER</b>		MAX FEATHER: -8.1 °		MAGNETOMETER: GeoMetrics: used			
WIND SOL: 15 knots				MAG DEC USED : 13.81°			
WIND EOL: NW 5.5 knots		00:00 – 06:00 z => Martello, Becel, Deleschuse, Zietman °		06:00 – 12:00 z => Martello, Li, Shillington, Perls, Wessbecher			
SEAS SOL: 5		12:00 – 18:00 z => Eaton, Kuehn, Nedimovic, Hostetler		18:00 – 24:00 z => Eaton, Farkas, Webb, Eddy			
SEAS EOL: <1m							
<b>SP</b>	<b>TIME(UTC)</b>	<b>EVENT</b>	<b>COMMENTS</b>				
4765	2205	SOL	Start of Line				
5000	2359	MSP	Midnight shot point				
5427	0312	Source	Power down for whale				
5492	0347	DGPS	Seapath offline..... Reboot				
5511	0357	DGPS	Seapath online				
5526	0404	DGPS	Cnav 3050 offline, no satellites in view				
5553	0418	Source	Ramp up complete..... Full volume				
5601	0442	DGPS	Cnav 3050 online				
5791	0613	Source	Power down for whale				
5810	0622	Source	Back to full power				
6364-6366	1044	Streamers	noise records				
	1047	Turn	Start of Turn				
6385	1055	EOL	End of line				
							<b>VESEL POSITION</b>
							Latitude (N) Longitude (W)
							FGSP 4756 56° 14' 06.280" 155° 28' 42.712"
							LGSP 6385 57° 00' 52.343" 156° 20' 44.330"
							<b>NAVIGATION OFFSET APPLIED (m)</b>
							NRP - Stern 29.5
							NRP - COS 282
							NRP - CNG 465
							COS - CNG 183
							NRP - CMP 368
							Note: LMN line parameter set to great circle line
							P1 P2 MGL1110_MCS02R.p19 MGL1110_MCS02R.p294
<b>Posnet locations &amp; remarks: good - none - intermittent</b>		<b>Acoustic remarks:</b>		MGL1110.LMN 2D_2x8.SCN(001) mgl2010.RTCN			
Tailbuoy #1	good	Gun string #1	none	G1T4 - not operational			
Tailbuoy #2	intermittent	Gun string #2	good				
		Gun string #3	good				
		Gun string #4	good				
				SP spacing: 62.5m			
				<b>line status:</b>		Line complete	







<b>Seq# 023</b>		Line Name: <b>MGL1110_MCS12B</b>		<b>NAVIGATION</b>		DATE: 2011-07-28		<small>Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE</small>	
		Line Brg : <b>213 °</b>		<b>LINE LOGS</b>		JULIAN DAY: <b>209</b>			
CLIENT: NSF/Shillington			SURVEY: Gulf of Alaska, Northeast Pacific			MGL1110			
DC SOL : -6.9m		DEPTH SOL : 33.5m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary					
DC EOL : -9.0m		DEPTH EOL : 33.4m		NAVIGATION SYSTEM USED: SeaPath 200					
SMG SOL: 3.8 knots		FEATHER SOL: turning on line °		NAVIGATION SYSTEM USED: Pos MV v3					
SMG EOL: 4.9 knots		FEATHER EOL: -10.3 °		GRAVITY METER: BMG-II: used, SN210					
<u>WEATHER</u>		MAX FEATHER: -10.3 °		MAGNETOMETER: GeoMetrics: used					
WIND SOL: 12.4N knots				MAG DEC USED : 13.81°					
WIND EOL: 13.3W knots		00:00 – 06:00 z => Martello, Becel, Deleschuse, Zietman °		06:00 – 12:00 z => Martello, Li, Shillington, Perls, Wessbecher					
SEAS SOL: 1m		12:00 – 18:00 z => Eaton, Kuehn, Nedimovic, Hostetler		18:00 – 24:00 z => Eaton, Farkas, Webb, Eddy					
SEAS EOL: 1m									
SP	Time(UTC)	EVENT	COMMENTS						
1047	0557	SOL	Start of Line						
	0734	maggie/pam	Power down to retrieve d/t shallow depths						
	0744	maggie	on board						
	0752	pam	on board						
1790	1148	EOL	Early end of line d/t currents - cannot maintain streamer depth and shoot 22sec records.						
				VESSEL POSITION					
						Latitude (N)		Longitude (W)	
				FGSP	1047	56° 46' 12.621"	154° 49' 33.137"		
				LGSP	1790	56° 25' 19.068"	155° 14' 31.463"		
				NAVIGATION OFFSET APPLIED (m)					
				NRP - Stern	29.5				
				NRP - COS	282				
				NRP - CNG	465				
				COS - CNG	183				
				NRP - CMP	368				
				Note: LMN line parameter set to great circle line					
				P1		P2			
				MGL1110_MCS12B.p19 MGL1110_MCS12B.p294					
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		MGL1110.LMN		2D_2x8.SCN(001)		mgl2010.RTCN	
Tailbuoy #1	good	Gun string #1	none	G1T4 - not operational		SP spacing: 62.5m			
Tailbuoy #2	intermittent	Gun string #2	good						
		Gun string #3	good						
		Gun string #4	good						
				<b>line status:</b>		Line incomplete			

<b>Seq# 024</b>		Line Name: <b>MGL1110_MCS12C</b>		<b>NAVIGATION</b>		DATE: 2011-07-28																																																																											
		Line Brg : <b>145.7 °</b>		<b>LINE LOGS</b>		JULIAN DAY: <b>209</b>																																																																											
CLIENT: NSF/Shillington				SURVEY: Gulf of Alaska, Northeast Pacific				MGL1110																																																																									
DC SOL : -146.2m DC EOL : -1985.1m SMG SOL: 5.4 knots SMG EOL: 3.8 knots <b>WEATHER</b> WIND SOL: 6.5W knots WIND EOL: 2 SW kt knots SEAS SOL: 1m SEAS EOL: 1m		DEPTH SOL : 44.8m DEPTH EOL : 101.0m FEATHER SOL: -53.8 streamer in turn ° FEATHER EOL: .1 ° MAX FEATHER:		NAVIGATION SYSTEM USED: C-Nav3050 - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV v3 GRAVITY METER: BMG-II: used, SN210 MAGNETOMETER: GeoMetrics: used MAG DEC USED : 13.81°																																																																													
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				<table border="0"> <tr> <td style="text-align: center;"><u>P1</u></td> <td style="text-align: center;"><u>P2</u></td> </tr> <tr> <td colspan="2" style="text-align: center;">MGL1110_MCS12C.p19 MGL1110_MCS12C.p294</td> </tr> </table>				<u>P1</u>	<u>P2</u>	MGL1110_MCS12C.p19 MGL1110_MCS12C.p294																																																																							
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Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		MGL1110.LMN		2D_2x8.SCN(001)		mgl2010.RTCN																																																																									
Tailbuoy #1	good	Gun string #1	none	G1T4 - not operational		SP spacing:		62.5m																																																																									
Tailbuoy #2	intermittent	Gun string #2	good			<b>line status:</b>																																																																											
		Gun string #3	good																																																																														
		Gun string #4	good																																																																														



<b>Seq# 025</b>		Line Name: <b>MGL1110_MCS12D</b>		<b>NAVIGATION</b>		DATE: 2011-07-28		<small>Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE</small>			
		Line Brg :		<b>LINE LOGS</b>		JULIAN DAY: 209					
CLIENT: NSF/Shillington				SURVEY: Gulf of Alaska, Northeast Pacific				MGL1110			
DC SOL : -171.1m		DEPTH SOL : 114.2m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary							
DC EOL : 2.2m		DEPTH EOL : 90.7m		NAVIGATION SYSTEM USED: SeaPath 200							
SMG SOL: 4.3 knots		FEATHER SOL: -84.0 °		NAVIGATION SYSTEM USED: Pos MV v3							
SMG EOL: 3.6 knots		FEATHER EOL: -1.8 °		GRAVITY METER: BMG-II: used, SN210							
<b>WEATHER</b>		MAX FEATHER: 4.2 °		MAGNETOMETER: GeoMetrics: used							
WIND SOL: 8 knots						MAG DEC USED : 13.81°					
WIND EOL: 10.1 knots		00:00 – 06:00 z => Martello, Becel, Deleschuse, Zietman °		06:00 – 12:00 z => Martello, Li, Shillington, Perls, Wessbecher							
SEAS SOL: 1		12:00 – 18:00 z => Eaton, Kuehn, Nedimovic, Hostetler		18:00 – 24:00 z => Eaton, Farkas, Webb, Eddy							
SEAS EOL: 1											
SP	Time(UTC)	EVENT	COMMENTS								
1065	2043	SOL	SOL								
1436	2243	MMO	Power down for whale								
1464	2359	MSP	Midnight Shot point								
1492	0015	SOURCE	Ramp up started								
1527	0038	SOURCE	Ramp up complete, 6600 cu vol								
1651	0144	SOURCE	Power down for whales								
	0305	SOURCE	Bringing in strings 1 and 2 for maintenance while powered down								
1926	0415	SOURCE	Being ramp up, only strings 3 and 4, also start deploying strings 1 and 2								
1944	0423	SOURCE	Ramp up complete, 3300 CU vol								
1969	0435	SOURCE	String 1 ENABLED, 4950 cu vol								
2004	0452	SOURCE	String 2 ENABLED, 6600 cu vol								
2032	0506	SOURCE	Power down for whale								
2091	0536	SOURCE	Begin ramp up								
2118	0554	EOL	EOL - Still ramping up								
				VESSEL POSITION							
				Latitude (N)				Longitude (W)			
				FGSP	1065	55° 55' 30.935"	155° 03' 15.889"				
				LGSP	2031	56° 17' 08.977"	154° 19' 46.500"				
				NAVIGATION OFFSET APPLIED (m)							
				NRP - Stern	29.5						
				NRP - COS	282						
				NRP - CNG	465						
				COS - CNG	183						
				NRP - CMP	368						
				Note: LMN line parameter set to great circle line							
				P1		P2					
				MGL1110_MCS12D.p19 MGL1110_MCS12D.p294							
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		MGL1110.LMN		2D_2x8.SCN(001)		mgl2010.RTCN			
Tailbuoy #1	good	Gun string #1	none	G1T4 - not operational							
Tailbuoy #2	intermittent	Gun string #2	good								
		Gun string #3	good								
		Gun string #4	good								
				SP spacing: 62.5m							
				<b>line status:</b>		<b>LINE COMPLETE</b>					

















