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<b>Seq# 018</b>		Line Name: <b>MGL1905P1076</b>		<b>NAVIGATION</b>		DATE: 2019-07-21		Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY   EARTH INSTITUTE	
		Line Brg : <b>155.684 °</b>		<b>LINE LOGS</b>		JULIAN DAY: 202			
		CLIENT: NSF - Adrien Arnulf		SURVEY: Axial 3D		AREA: Cascadia			
DC SOL: 142.1 m		DEPTH SOL : 2703.0 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary					
DC EOL: 547.5 m		DEPTH EOL : 2141.0 m		NAVIGATION SYSTEM USED: SeaPath 330					
BSP SOL: 4.2 kts		FEATHER SOL: -17.0 °		NAVIGATION SYSTEM USED: C-Nav2000					
BSP EOL: 4.6 kts		FEATHER EOL: -01.8 °		NAVIGATION SYSTEM USED: POSMV					
WEATHER		MAX FEATHER: 04.4 °		GRAVITY METER: BMG-II: used, SN223					
WIND SOL: S 11 kts				MAGNETOMETER: None					
WIND EOL: S 7.8 kts		shift hours		shift leaders		shift hours		watch personnel	
SEAS SOL: 0.5 m		12:00 - 24:00		David Martinson		12:00 - 24:00		David Martinson	
SEAS EOL: 0.5 m		0:00-12:00		Alan Thompson		00:00 - 12:00		Alan Thompson	
SP	UTC	EVENT	COMMENTS				VESSEL POSITION		
911	03:26	SOL	Start of line						
956	03:39	ABORT	Stop line d/t streamer 4 front end channel failure, source set to fire internally				Shotpoints		
967	03:42	Restart	Restart line after power-cycling streamer 4				FSP	911	46° 06' 40.896"
973	03:44	ABORT	Stop line d/t streamer 4 front end channel failure, reboot CMXL, set source to fire internally				LSP	2148	45° 43' 53.820"
1008	03:55	Restart	Restart line				Longitude (W)		
1064	04:11	ABORT	Stop line d/t entire failure of streamer 4, reboot CMXL, reseal 2nd LMP, and tighten streamer 4 deck lead, set source to fire internally				130° 09' 02.492"		
1113	04:26	Restart	Restart line				NAVIGATION OFFSET APPLIED		
1420	05:55	ABORT	Stop line d/t streamer 4 failure, change out DXCU, set source to fire internally				NRP - Stern		
1497	06:21	Restart	Restart line				NRP - COS		
2148	09:21	EOL	End of line				NRP - CNG		
							COS - CNG		
							NRP - CMP		
							29.5m		
							280.0m		
							455.00m		
							175.00m		
							367.40m		
Posnet locations & remarks: good - none - intermittent									
Tailbuoy #1	Failed	Gun string #1	GOOD	Acoustic good					
Tailbuoy #2	Failed	Gun string #2	GOOD	Acoustic good					
Tailbuoy #3	Good	Gun string #3	None	Acoustic good					
Tailbuoy #4	Good	Gun string #4	Intermittent	Acoustic good					
SP spacing: 37.5m							line status: Complete		

<b>Seq# 019</b>		Line Name: <b>MGL1905P1180</b>		<u><b>NAVIGATION</b></u>		DATE: 2019-07-21		 													
		Line Brg : <b>155.684 °</b>		<u><b>LINE LOGS</b></u>		JULIAN DAY: <b>202</b>															
		CLIENT: NSF - Adrien Arnulf		SURVEY: <b>Axial 3D</b>		AREA: Cascadia															
DC SOL: -43.1 m		DEPTH SOL : 2400.0 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary																	
DC EOL: -92.9 m		DEPTH EOL : 2822.1 m		NAVIGATION SYSTEM USED: SeaPath 330																	
BSP SOL: 4.2 kts		FEATHER SOL: -04.4 °		NAVIGATION SYSTEM USED: C-Nav2000																	
BSP EOL: 4.2 kts		FEATHER EOL: 01.7 °		NAVIGATION SYSTEM USED: POSMV																	
WEATHER		MAX FEATHER: 07.8 °		GRAVITY METER: BMG-II: used, SN223																	
WIND SOL: W 12.4 kts				MAGNETOMETER: None																	
WIND EOL: S 14.0 kts																					
SEAS SOL: 0.5 m		shift hours 12:00 - 24:00		shift leaders David Martinson		shift hours 12:00 - 24:00		watch personnel David Martinson													
SEAS EOL: 0.5 m		0:00-12:00		Alan Thompson		00:00 - 12:00		Alan Thompson													
SP		UTC		EVENT		<b>COMMENTS</b>															
2136		11:18		SOL																	
				Start of line		<b>VESSEL POSITION</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Shotpoints</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> <tr> <td>FSP 2136</td> <td>45° 45' 22.944"</td> <td>129° 51' 22.057"</td> </tr> <tr> <td>LSP 921</td> <td>46° 07' 41.011"</td> <td>130° 06' 19.822"</td> </tr> </table>				Shotpoints	Latitude (N)	Longitude (W)	FSP 2136	45° 45' 22.944"	129° 51' 22.057"	LSP 921	46° 07' 41.011"	130° 06' 19.822"			
Shotpoints	Latitude (N)	Longitude (W)																			
FSP 2136	45° 45' 22.944"	129° 51' 22.057"																			
LSP 921	46° 07' 41.011"	130° 06' 19.822"																			
921		17:06		EOL		<b>NAVIGATION OFFSET APPLIED</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>NRP - Stern</td> <td>29.5m</td> </tr> <tr> <td>NRP - COS</td> <td>280.0m</td> </tr> <tr> <td>NRP - CNG</td> <td>455.00m</td> </tr> <tr> <td>COS - CNG</td> <td>175.00m</td> </tr> <tr> <td>NRP - CMP</td> <td>367.40m</td> </tr> </table>				NRP - Stern	29.5m	NRP - COS	280.0m	NRP - CNG	455.00m	COS - CNG	175.00m	NRP - CMP	367.40m		
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Posnet locations & remarks: good - none - intermittent		Tailbuoy #1	Failed	Gun string #1	GOOD					Acoustic good											
		Tailbuoy #2	Failed	Gun string #2	GOOD	Acoustic good															
		Tailbuoy #3	Good	Gun string #3	None									Acoustic good							
		Tailbuoy #4	Good	Gun string #4	Intermittent													Acoustic good			
						SP spacing: 37.5m		<b>Complete</b>													
						line status:															

Page 1

<b>Seq# 021</b>		Line Name: <b>MGL190511084</b>		<b><u>NAVIGATION</u></b>		DATE: 2019-07-22		 													
		Line Brg : <b>335.684 °</b>		<b><u>LINE LOGS</u></b>		JULIAN DAY: 203															
		CLIENT: NSF - Adrien Arnulf		SURVEY: Axial 3D		AREA: Cascadia															
DC SOL: 124.6 m		DEPTH SOL : 2397.5 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary																	
DC EOL: 231.8 m		DEPTH EOL : 2823.8 m		NAVIGATION SYSTEM USED: SeaPath 330																	
BSP SOL: 4.2 kts		FEATHER SOL: -31.3 °		NAVIGATION SYSTEM USED: C-Nav2000																	
BSP EOL: 4.0 kts		FEATHER EOL: -00.3 °		NAVIGATION SYSTEM USED: POSMV																	
WEATHER		MAX FEATHER: -31.3 °		GRAVITY METER: BMG-II: used, SN223																	
WIND SOL: W 9.2 kts				MAGNETOMETER: None																	
WIND EOL: W 20.5 kts		shift hours		shift leaders		shift hours		watch personnel													
SEAS SOL: 0.5 m		12:00 - 24:00		David Martinson		12:00 - 24:00		David Martinson													
SEAS EOL: 1.0 m		0:00-12:00		Alan Thompson		00:00 - 12:00		Alan Thompson													
SP		UTC		EVENT		<b>COMMENTS</b>															
2224		02:40		SOL																	
				Start of line - Infill pass		<b>VESSEL POSITION</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Shotpoints</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> <tr> <td>FSP 2224</td> <td>45° 43' 49.368"</td> <td>129° 50' 11.397"</td> </tr> <tr> <td>LSP 921</td> <td>46° 07' 45.489"</td> <td>130° 06' 06.135"</td> </tr> </table>				Shotpoints	Latitude (N)	Longitude (W)	FSP 2224	45° 43' 49.368"	129° 50' 11.397"	LSP 921	46° 07' 45.489"	130° 06' 06.135"			
Shotpoints	Latitude (N)	Longitude (W)																			
FSP 2224	45° 43' 49.368"	129° 50' 11.397"																			
LSP 921	46° 07' 45.489"	130° 06' 06.135"																			
921		08:49		EOL		<b>NAVIGATION OFFSET APPLIED</b> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>NRP - Stern</td> <td>29.5m</td> </tr> <tr> <td>NRP - COS</td> <td>280.0m</td> </tr> <tr> <td>NRP - CNG</td> <td>455.00m</td> </tr> <tr> <td>COS - CNG</td> <td>175.00m</td> </tr> <tr> <td>NRP - CMP</td> <td>367.40m</td> </tr> </table>				NRP - Stern	29.5m	NRP - COS	280.0m	NRP - CNG	455.00m	COS - CNG	175.00m	NRP - CMP	367.40m		
NRP - Stern	29.5m																				
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Posnet locations & remarks: good - none - intermittent		Tailbuoy #1	Failed	Gun string #1	GOOD					Acoustic good											
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		Tailbuoy #3	Good	Gun string #3	None									Acoustic good							
		Tailbuoy #4	Good	Gun string #4	Intermittent													Acoustic good			
		SP spacing: 37.5m		<b>Complete</b>																	
		line status:																			

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<b>Seq# 024</b>		Line Name: <b>MGL190511092</b>		<b><u>NAVIGATION</u></b>		DATE: 2019-07-23		 	
		Line Brg : <b>155.684 °</b>		<b><u>LINE LOGS</u></b>		JULIAN DAY: 204			
		CLIENT: NSF - Adrien Arnulf		SURVEY: Axial 3D		AREA: Cascadia			
DC SOL: -52.9 m		DEPTH SOL : 2636.5 m		NAVIGATION SYSTEM USED: C-Nav3050 - Primary					
DC EOL: -70.8 m		DEPTH EOL : 2300.4 m		NAVIGATION SYSTEM USED: SeaPath 330					
BSP SOL: 4.4 kts		FEATHER SOL: 07.6 °		NAVIGATION SYSTEM USED: C-Nav2000					
BSP EOL: 4.4 kts		FEATHER EOL: -00.4 °		NAVIGATION SYSTEM USED: POSMV					
WEATHER		MAX FEATHER: 07.7 °		GRAVITY METER: BMG-II: used, SN223					
WIND SOL: W 8 kts				MAGNETOMETER: None					
WIND EOL: W 10.8 kts									
SEAS SOL: 1.0 m		shift hours 12:00 - 24:00		shift leaders David Martinson		shift hours 12:00 - 24:00		watch personnel David Martinson	
SEAS EOL: 1.0 m		0:00-12:00		Alan Thompson		00:00 - 12:00		Alan Thompson	
SP 996		UTC 02:32		EVENT SOL		COMMENTS			
						VESEL POSITION			
						Shotpoints Latitude (N) Longitude (W)			
						FSP 996 46° 05' 18.344" 130° 07' 25.912"			
						LSP 2148 45° 44' 10.469" 129° 53' 16.527"			
2148		07:57		EOL		End of Line			
						<div style="border: 1px solid black; padding: 5px; margin: 5px;"> NAVIGATION OFFSET APPLIED  NRP - Stern 29.5m  NRP - COS 280.0m  NRP - CNG 455.00m  COS - CNG 175.00m  NRP - CMP 367.40m </div>			
Posnet locations & remarks: good - none - intermittent		Tailbuoy #1		Failed	Gun string #1	GOOD	Acoustic good		
		Tailbuoy #2		Failed	Gun string #2	GOOD	Acoustic good		
		Tailbuoy #3		Good	Gun string #3	None	Acoustic good		
		Tailbuoy #4		Good	Gun string #4	Intermittent	Acoustic good		
						SP spacing: 37.5m			
						line status:		Complete	



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