

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-06-27	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-06-27
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	24:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

POS: 57 47.0174 N
152 25.596 W

HDG: 270 Deg
Speed 0 kts

Wind: E @ 10-15 kts
Seas: 1 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	0:00 Pier side Kodiak, Alaska

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro

Science Party on board:

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander,

5. Daily Summary:

Continue Port Call in Kodiak, Alaska – Mobilizing for MGL1110

Tomorrow:

Continue Port Call in Kodiak, Alaska – Mobilizing for MGL1110

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-06-28	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-06-28
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	24:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

POS: 57 47.0174 N
152 25.596 W

HDG: 270 Deg
Speed 0 kts

Wind: E @ 10-15 kts
Seas: 1 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	0:00 Pier side Kodiak, Alaska

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Continue Port Call in Kodiak, Alaska – Mobilizing for MGL1110

Tomorrow:

Continue Port Call in Kodiak, Alaska – Mobilizing for MGL1110 – At ~15:30 GMT the vessel will shift to the fuel dock and by about 23:00 GMT the vessel should be underway for the survey area.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-06-29	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-06-29
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	1:50
Ship Repair	0:00
Maneuvering	0:00
Port Call	22:10
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

POS: 57 43.605 N
152 31.081 W

HDG: 078 Deg
Speed 0 kts

Wind: SW @ 10-15 kts
Seas: 1 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
0:00	15:27	Port Call Kodiak, AK
15:27	17:17	Transit to USCG Fuel Dock
17:17	0:00	Fueling at USCG Fuel Dock

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Continue Port Call in Kodiak, Alaska – Mobilizing for MGL1110 until about 15:27 GMT when the vessel got underway for the USCG Fuel Dock near Kodiak, Alaska. The vessel arrived at the fuel dock at 17:17 and continued fueling operation throughout the rest of the afternoon.

Tomorrow:

Once the fueling operation at USCG Fuel Dock near Kodiak Alaska is complete the vessel will get underway to perform scouting operation of MGL1110-MCS01, MCS23, and MCS02 lines before heading offshore to complete the acoustic release cast with the CTD winch which should complete the day out.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
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Fm: Robert Steinhaus – Chief Science Officer (LDEO)

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1. PRODUCTION SUMMARY

2011-06-30	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-06-30	
Recording	0:00	
Line Change	0:00	
Weather	0:00	
Instrument Acquisition	0:00	
Instrument Navigation	0:00	
Hydraulics	0:00	
Source	0:00	
Streamer	0:00	
Seismic Air Compressor	0:00	
Mitigation/PAM	0:00	
Transit	9:12	
Ship Repair	0:00	
Maneuvering	0:00	
Port Call	1:45	
Other	13:03	Scouting MCS Lines
Total:	24.00	

UTC Midnight (24:00) Position / Heading:

POS: 57 34.116 N
155 14.534 W

HDG: 230 Deg
Speed 10.4 kts

Wind: NW @ 15-20 kts
Seas: 1 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

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R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	
	0:00	1:45	Fueling at USCG Fuel Dock
	1:45	10:30	Transit to MGL1110-MCS1
	10:30	12:51	Scouting MGL1110-MCS1
	12:51	13:18	Enroute to MGL1110-MCS12
	13:18	0:00	Scouting MGL1110-MCS12

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Continue continued fueling operation at the USCG fuel base near Kodiak, Alaska. At 01:45 GMT the fueling was complete and the vessel got underway. Shortly after getting underway all sonar, as well as pc02 and TSG were brought online, as well as the Maggie was deployed during the transit. At 10:30 GMT we began scouting of MCS lines that enter the southern end of Cook Inlet and entire length of Shelikof Strait which continue throughout the rest of the day.

Tomorrow:

At the start of the day the vessel will continue scouting the MCS lines that runs the entire length of Shelikof Strait and pass to the west side of Kodiak Island. Once the scouting completed the vessel will make its way towards Line MGL1110OBS03. Enroute the vessel will stop over the Aleutian Trench in ~5500m of water and conduct a the acoustic release cast for SCRIPS OBS tech before moving on to OBS301 drop Point.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-01	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-01	
Recording	0:00	
Line Change	0:00	
Weather	0:00	
Instrument Acquisition	0:00	
Instrument Navigation	0:00	
OBS Rosette Drop Test	4:30	
OBS Deployment	0:00	
OBS Recovery	0:00	
Hydraulics	0:00	
Source	0:00	
Streamer	0:00	
Seismic Air Compressor	0:00	
Mitigation/PAM	0:00	
Transit	7.28	
Ship Repair	0:00	
Maneuvering	0:00	
Port Call	0:00	
Other	12:02	Scouting MCS Lines
	Total: 24.00	

UTC Midnight (24:00) Position / Heading:

POS: 54 45.480 N
155 17.226 W

HDG: 300 Deg
Speed 0 kts

Wind: N @ 5-10 kts
Seas: 1 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

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R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	4:56 Scouting MGL1110-MCS12
4:56	5:10 Transit to MGL1110-MCS02
5:10	12:16 Scouting MGL1110-MCS2
12:16	19:30 Transit to OBS Acoustic Rosette Drop Test Site
19:30	0:00 Conducting OBS Acoustic Rosette Drop Test

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels continued scouting of MCS lines which span the entire length of Shelikof Strait and on the west end of Kodiak Island. At 12:16 GMT all scouting was completed and the vessel began transiting to the OBS Acoustic Release Cast Site. The Vessel arrived on site at 19:30 GMT and began the OBS Acoustic release test down to 4800m. This operation continued through the end of the day.

*** At 20:16 GMT the TSG stopped transmitting data and after trouble shooting it was determined that it is not repairable onboard. Options for a replacement are be investigated.

Tomorrow:

At the start of the day the vessel will continue the OBS Acoustic release test down to 4800m. Once that operation is complete the vessel will get underway for the first OBS deployment site on line MGL1110-OBS03. It is expected that the first OBS will be deployed at ~08:00 GMT. OBS deployment operation will then continue throughout the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
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1. PRODUCTION SUMMARY

2011-07-02	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-02
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	1:36
OBS Deployment	2:29
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	19:55
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 55 29.215 N
157 11.560 W

HDG: 329 Deg
Speed 11 kts

Wind: NE @ 5-10 kts
Seas: 1 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time		Event
0:00	1:36	Conducting OBS Acoustic Rosette Drop Test
1:36	8:21	Transit OBS301 Drop Location
8:21	8:33	Deploying OBS-301
8:33	9:23	Transit OBS302 Drop Location
9:23	9:31	Deploying OBS-302
9:31	10:26	Transit OBS303 Drop Location
10:26	10:34	Deploying OBS-303
10:34	11:30	Transit OBS304 Drop Location
11:30	11:39	Deploying OBS-304
11:39	12:33	Transit OBS305 Drop Location
12:33	12:40	Deploying OBS-305
12:40	13:32	Transit OBS306 Drop Location
13:32	13:59	Deploying OBS-306
13:59	15:12	Transit OBS307 Drop Location
15:12	15:35	Deploying OBS-307
15:35	16:30	Transit OBS308 Drop Location
16:30	16:35	Deploying OBS-308
16:35	17:34	Transit OBS309 Drop Location
17:34	17:40	Deploying OBS-309
17:40	18:38	Transit OBS-310 Drop Location
18:38	18:44	Deploying OBS-310
18:44	19:42	Transit OBS-311 Drop Location
19:42	19:58	Deploying OBS-311
19:58	20:53	Transit OBS-312 Drop Location
20:53	20:58	Deploying OBS-312
20:58	21:48	Transit OBS-313 Drop Location
21:48	21:54	Deploying OBS-313
21:54	22:43	Transit OBS-314 Drop Location
22:43	22:48	Deploying OBS-314
22:48	23:40	Transit OBS-315 Drop Location
23:40	23:46	Deploying OBS-315
23:46	0:00	Transit OBS-316 Drop Location

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day continued the OBS Acoustic release test down to 4800m. This operation was completed at 01:36 GMT and the vessel started transiting to Drop Location for OBS 301. At 08:33 GMT OBS 301 was deployed and the vessel continued up Line MGL1110-OBS03 deploying OBS's throughout the rest of the Day. Last OBS deployed for the day was OBS315.

Tomorrow:

At the start of the day the vessel will continue the OBS deployment operation. As soon as those operation are complete the Air Source will be deployed and shortly after that Line MGL1110-OBS03 was be started which will continue throughout the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-03	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	97.030	97.030
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 97.030	97.030

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-03
Recording	11:20
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:29
OBS Recovery	0:00
Hydraulics	0:00
Source	2:35
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	1:57
Transit	7:39
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 55 30 31.313 N
157 12 49.101 W

HDG: 157 Deg
Speed 5.0 kts

Wind: NE @ 20-15 kts
Seas: 1 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:35 Transit OBS-316 Drop Location				
0:35	0:41 Deploying OBS-316				
0:41	1:32 Transit OBS-317 Drop Location				
1:32	1:37 Deploying OBS-317				
1:37	2:29 Transit OBS-318 Drop Location				
2:29	2:33 Deploying OBS-318				
2:33	3:27 Transit OBS-319 Drop Location				
3:27	3:32 Deploying OBS-319				
3:32	4:26 Transit OBS-320 Drop Location				
4:26	4:31 Deploying OBS-320				
4:31	5:27 Transit OBS-321 Drop Location				
5:27	5:31 Deploying OBS-321				
5:31	6:50 Transit to Source Deployment Area				
6:50	9:25 Deploying Source				
9:25	9:59 Ramping up Source				
9:59	11:17 Transit to Start of Line				
11:17	15:14 Production MGL1110-OBS03	1004	1120	116	35.960
15:14	16:37 Power Down from PSO Sighting				
16:37	0:00 Production MGL1110-OBS03	1151	1348	197	61.070

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

Cruise : MGL1110

To: Office of Marine Operations
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Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

5. Daily Summary:

Vessels started the day continuing up Line MGL1110-OBS03 deploying until 05:31 GMT at which time the last OBS(21) was deployed and the vessel started a short Transit to the Source Deployment Area. At 06:50 GMT source deployment operations started and at 09:25 GMT the full array was deploy and ramp up commenced on the run-in to line. At 11:17 GMT production began on MGL1110-OBS03 and was continue throughout the rest of the day. The vessel had one power down for PSO sighting during the day from 15:14 – 16:37 GMT.

Tomorrow:

At the start of the day the vessel will continue in production on Line MGL1110-OBS03 which will continue throughout the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
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Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-04	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	219.790	219.790
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 219.790	219.790

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-04
Recording	24:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 46 11.533 N
155 35 26.125 W

HDG: 153 Deg
Speed 4.0 kts

Wind: N @ 5-10kts
Seas: 1 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	0:00	Production MGL1110-OBS03	1349	2058	709	219.790

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day in production on Line MGL1110-OBS03 which continue throughout the rest of the day.

Tomorrow:

At the start of the day the vessel will continue in production on Line MGL1110-OBS03. Once the line is complete the vessel will start retrieving all towed equipment and begin transit to OBS301 to begin recovery operation. OBS operation will then continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-05	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	33.170	33.170
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 33.170	33.170

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-05
Recording	3:46
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	12:05
Hydraulics	0:00
Source	1:08
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	7:01
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 46.139 N
155 35.387 W

HDG: 146 Deg
Speed 3.5 kts

Wind: W @ 10-15 kts
Seas: 1 -2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	3:46	Production MGL1110-OBS03	2059	2166	107	33.170
	3:46	4:54	Retrieving Source				
	4:54	5:44	Transit to OBS 301				
	5:44	7:44	Recovery OBS 301				
	7:44	8:27	Transit to OBS 302				
	8:27	10:35	Recovery OBS 302				
	10:35	11:32	Transit to OBS 303				
	11:32	13:40	Recovery OBS 303				
	13:40	14:36	Transit to OBS 304				
	14:36	16:33	Recovery OBS 304				
	16:33	17:19	Transit to OBS 305				
	17:19	19:18	Recovery OBS 305				
	19:18	20:34	Transit to OBS 306				
	20:34	22:07	Recovery OBS 306				
	22:07	23:40	Transit to OBS 307				
	23:40	0:00	Recovery OBS 307				

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day in production on Line MGL1110-OBS03 which concluded at 03:46 GMT. At which time the Air Source was retrieved and the vessel made its way to OBS301 location and began recovery operation, which continued throughout the day. By the End of the day OBS301 – OBS 306 were onboard and the vessel was awaiting the surface of OBS 307.

Tomorrow:

The vessel will continue with OBS recovery operation which will continue throughout the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-06	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-06
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	11:44
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	12:16
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 56 05.650 N
157 47.987 W

HDG: 327.8 Deg
Speed 10.7 kts

Wind: W @ 10-15 kts
Seas: 1 -2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	1:45 Recovery OBS 307
1:45	2:47 Transit to OBS 308
2:47	4:48 Recovery OBS 308
4:48	5:40 Transit to OBS 309
5:40	7:09 Recovery OBS 309
7:09	7:58 Transit to OBS 310
7:58	9:14 Recovery OBS 310
9:14	10:06 Transit to OBS 311
10:06	11:09 Recovery OBS 311
11:09	12:11 Transit to OBS 312
12:11	12:54 Recovery OBS 312
12:54	13:42 Transit to OBS 313
13:42	14:07 Recovery OBS 313
14:07	15:01 Transit to OBS 314
15:01	15:27 Recovery OBS 314
15:27	16:22 Transit to OBS 315
16:22	16:59 Recovery OBS 315
16:59	18:01 Transit to OBS 316
18:01	18:27 Recovery OBS 316
18:27	19:25 Transit to OBS 317
19:25	19:57 Recovery OBS 317
19:57	20:50 Transit to OBS 318
20:50	21:20 Recovery OBS 318
21:20	22:11 Transit to OBS 319
22:11	22:35 Recovery OBS 319
22:35	23:39 Transit to OBS 320
23:39	23:46 Recovery OBS 320
23:46	0:00 Transit to OBS 321

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

5. Daily Summary:

Vessels started the day doing recovery operation, which continued throughout the day. By the End of the day OBS307 – OBS 320 were onboard and the vessel was in transit to OBS 321's location.

Tomorrow:

The vessel will continue with OBS recovery operation which will be concluded with the recovery of OBS 321. Once OBS 321 is onboard the vessel will get underway for the first OBS deployment location on line MGL1110-OBS05. The transit to this location will last throughout the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-07	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-07
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:28
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	23:32
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 52 37.213 N
159 33.300 W

HDG: 335.76 Deg
Speed 9.21 kts

Wind: N @ 15-20 kts
Seas: 2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	0:41 Transit to OBS 321
0:41	1:09 Recovery OBS 320
1:09	0:00 Transit to OBS 501 Deployment Site

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day continuing OBS recovery operation. At 01:09 GMT the last OBS (321) was onboard and the vessel began transiting to the Southern End of Line MGL1110-OBS05 to begin OBS Deployment operations, which continued throughout the rest of the day.

Tomorrow:

The vessel will continue transiting to the southern end of Line MGL1110-OBS05. The vessel should arrive at the first OBS deployment location early in the day and OBS deployment operation will begin and continue throughout the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-08	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	17.050	17.050
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 17.050	17.050

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-08
Recording	1:58
Line Change	0:01
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	2:12
OBS Recovery	0:00
Hydraulics	0:00
Source	2:11
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	1:04
Transit	16:34
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 54 59.275 N
160 41.473 W

HDG: 160.7Deg
Speed 5 kts

Wind: SE @ 15-20 kts
Seas: 1m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:03 Transit OBS501 Drop Location				
0:03	0:10 Deploying OBS-501				
0:10	0:58 Transit OBS502 Drop Location				
0:58	1:03 Deploying OBS-502				
1:03	1:54 Transit OBS503 Drop Location				
1:54	2:00 Deploying OBS-503				
2:00	2:46 Transit OBS504 Drop Location				
2:46	2:52 Deploying OBS-504				
2:52	3:40 Transit OBS505 Drop Location				
3:40	3:41 Deploying OBS-505				
3:41	4:30 Transit OBS506 Drop Location				
4:30	4:35 Deploying OBS-506				
4:35	5:24 Transit OBS507 Drop Location				
5:24	5:29 Deploying OBS-507				
5:29	6:22 Transit OBS508 Drop Location				
6:22	6:29 Deploying OBS-508				
6:29	8:43 Transit OBS509 Drop Location				
8:43	8:54 Deploying OBS-509				
8:54	9:43 Transit OBS-510 Drop Location				
9:43	9:49 Deploying OBS-510				
9:49	10:33 Transit OBS-511 Drop Location				
10:33	10:40 Deploying OBS-511				
10:40	11:24 Transit OBS-512 Drop Location				
11:24	11:31 Deploying OBS-512				
11:31	12:11 Transit OBS-513 Drop Location				
12:11	12:17 Deploying OBS-513				
12:17	12:57 Transit OBS-514 Drop Location				
12:57	13:04 Deploying OBS-514				
13:04	13:42 Transit OBS-515 Drop Location				
13:42	13:48 Deploying OBS-515				
13:48	14:25 Transit OBS-516 Drop Location				
14:25	14:30 Deploying OBS-516				
14:30	15:08 Transit OBS-517 Drop Location				
15:08	15:13 Deploying OBS-517				
15:13	15:55 Transit OBS-518 Drop Location				
15:55	16:02 Deploying OBS-518				
16:02	16:44 Transit OBS-519 Drop Location				
16:44	16:58 Deploying OBS-519				

Cruise : MGL1110

Shillington

To: Office of Marine Operations

R/V Marcus G. Langseth

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

16:58	17:42	Transit OBS-520 Drop Location				
17:42	17:46	Deploying OBS-520				
17:46	18:41	Transit OBS-521 Drop Location				
18:41	18:46	Deploying OBS-521				
18:46	20:57	Deploying Source				
20:57	21:58	Production MGL1110-OBS05T	1010	1039	29	8.990
21:58	21:59	Line Change				
21:59	22:13	Production MGL1110-OBS05T	992	997	5	1.550
22:13	23:17	Power Down for PSO - Sighting				
23:17	0:00	Production MGL1110-OBS05T	1018	1039	21	6.510

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day transiting to the Southern End of Line MGL1110-OBS05 to begin OBS Deployment operations, which started at 00:03 and continued until 18:46 when the last OBS (521) was deployed. The Source was then deployed and a short transit Line (MGL1110-OBS05T) was acquired during the run in to Line MGL1110-OBS05 which was started at 21:59. During the line there was one PSO sighting which required the source to be powered down for over the 9 min allotted time resulting in the source having to be complete ramp up.

Tomorrow:

The vessel will continue in production on MGL1110-OBS05 throughout the day.

Best Regards

Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-09	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	215.450	215.450
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 215.450	215.450

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-09
Recording	24:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 07.577 N
159 47.183 W

HDG: 164.21 Deg
Speed 4.95 kts

Wind: SW @ 10-15 kts
Seas 1- 2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:00	Production MGL1110-OBS05	1039	1734	695	215.450

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day in production on MGL1110-OBS05 which continued throughout the day.

*** Note: At 03:15 GMT it was observed that the Magnetometer stopped transmitting data. At which time recovery operation started and it was clear that the tow leader was tangled in the Source. Sub-Array #2 was taken offline and both the Magnetometer and Sub-Array were retrieved together to avoid any further damage to the Magnetometer. On Recovery it was noted that there was a large amount of sea grass on the Magnetometer that had caused it to get tangled with Sub-Array 2. The Magnetometer tow leader was damaged and had to be replaced with the spare. RQN's for parts to repair the damaged tow leader were submitted to the office for processing.

Magnetometer remained onboard for the rest of the line and will be re-deployed once all MCS operations begin on this same line.

Tomorrow:

The vessel will continue in production on MGL1110-OBS05 through almost midday, At which time the line will end and recovery of the towed equipment will start as the vessel transit back to the first OBS (501) recovery location. Recovery of OBS's will continue throughout the rest of the day..

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-10	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	77.500	77.500
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 77.500	77.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-10
Recording	8:37
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	8:48
Hydraulics	0:00
Source	1:10
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	5:25
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 11.383 N
159 48.662 W

HDG: 291 Deg
Speed 0 kts

Wind: W @ 10-15 kts
Seas 1- 2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	8:37		1735	1985	250	77.500
	8:37	9:47					
	9:47	10:40					
	10:40	12:18					
	12:18	13:15					
	13:15	14:52					
	14:52	15:28					
	15:28	17:15					
	17:15	17:57					
	17:57	19:42					
	19:42	20:55					
	20:55	22:16					
	22:16	23:20					
	23:20	0:00					

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day in production on MGL1110-OBS05 until 08:37 GMT at which time Source was retrieved which the vessel made a turn to head towards OBS501 Location to begin recovery operation. At 10:40 OBS recovery operation began and continued throughout the rest of the day. By the end of the day, OBS501 – OBS505 were onboard and OBS506 was on its way up.

Tomorrow:

The vessel will continue OBS Recovery operation throughout the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-10	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-10
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	13:18
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	10:42
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 54 44.487 N
160 33.706 W

HDG: 333 Deg
Speed 10.5 kts

Wind: SW @ 20-25 kts
Seas 3-4 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	1:00 Retrieving OBS 506
1:00	1:50 Transit to OBS 507
1:50	3:32 Retrieving OBS 507
3:32	4:20 Transit to OBS 508
4:20	6:22 Retrieving OBS 508
6:22	8:20 Transit to OBS 509
8:20	10:25 Retrieving OBS 509
10:25	11:07 Transit to OBS 510
11:07	12:42 Retrieving OBS 510
12:42	13:36 Transit to OBS 511
13:36	14:44 Retrieving OBS 511
14:44	15:30 Transit to OBS 512
15:30	16:28 Retrieving OBS 512
16:28	17:08 Transit to OBS 513
17:08	17:54 Retrieving OBS 513
17:54	18:30 Transit to OBS 514
18:30	18:54 Retrieving OBS 514
18:54	19:45 Transit to OBS 515
19:45	20:34 Retrieving OBS 515
20:34	21:23 Transit to OBS 516
21:23	21:38 Retrieving OBS 516
21:38	22:26 Transit to OBS 517
22:26	22:44 Retrieving OBS 517
22:44	23:33 Transit to OBS 518
23:33	23:49 Retrieving OBS 518
23:49	0:00 Transit to OBS 519

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Aaron, Gibaud, Thia, Kao

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

Cruise : MGL1110

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington

R/V Marcus G. Langseth

5. Daily Summary:

Vessels started the day doing OBS recovery operation which continued throughout the rest of the day. By the end of the day, OBS506 – OBS518 were onboard and the vessel was in transit to OBS519

Tomorrow:

The vessel will continue OBS Recovery at the beginning of the day. Around 03:00 GMT the vessel should have all OBS onboard and will make its way to Sand Point, Alaska to transfer off OBS Technicians and transfer on 6 addition Science Party and a couple of Marine Tech's.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
 Cc: Reports Group
 Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-12	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-12	
Recording	0:00	
Line Change	0:00	
Weather	0:00	
Instrument Acquisition	0:00	
Instrument Navigation	0:00	
OBS Rosette Drop Test	0:00	
OBS Deployment	0:00	
OBS Recovery	0:57	
Hydraulics	0:00	
Source	0:00	
Streamer	11:55	
Seismic Air Compressor	0:00	
Mitigation/PAM	0:00	
Transit	7:31	
Ship Repair	0:00	
Maneuvering	0:00	
Port Call	3:37	Personnel Transfer
Other	0:00	
	Total: 24.00	

UTC Midnight (24:00) Position / Heading:

POS: 54 57.8221 N
 161 04.34277 W

HDG: 068 Deg
 Speed 3.6 kts

Wind: E @ 20-25 kts
 Seas 6-9 ft.

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	0:37 Transit to OBS 519
0:37	1:03 Retrieving OBS 519
1:03	1:48 Transit to OBS 520
1:48	2:04 Retrieving OBS 520
2:04	2:55 Transit to OBS 521
2:55	3:10 Retrieving OBS 521
3:10	6:00 Transit to Sand Point
6:00	9:37 Personnel Transfer
9:37	12:05 Transit to Deployment Area
12:05	0:00 Deploying Streamer 1

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

5. Daily Summary:

Vessels started the day Continuing OBS recovery operation which was completed at 03:10 GMT. At which time the vessel started transiting to Sand Point Alaska, to do a personnel transfer which began at 06:00 GMT.

Personnel transferred are listed below.

Off-Signing:

Olivia Lee NSF
Ernie Aaron SCRIPS OBS
Mark Gibaud SCRIPS OBS
Phil Thia - SCRIPS OBS
Ron Kao - SCRIPS OBS

On-Signing:

Berta Biescas, Dalhouse postdoc
Celia Eddy, Columbia undergrad
Andrew Wessbecher, Columbia undergrad
Kelly Hostetler, Columbia undergrad
Hannah Perls, Columbia undergrad
Jack Zietman, Columbia undergrad
David Martinson – Columbia Technical Staff
Charles Gram Erwin – Contract Technical Staff.

Transfer of Personnel and re-securing the vessel for sea was completed at 09:00 and the vessel got underway for MCS Streamer Deployment Area. Streamer 1 deployment began at 12:05 GMT and continued throughout the day.

Tomorrow:

The vessel will continue with streamer deployment operation throughout the day. Once Streamer #1 is out and on the diverter the deployment of Streamer #2 will begin.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-13	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-13
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	24:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 55 01.2329 N
160 49.6671 W

HDG: 66 Deg
Speed 3.6 kts

Wind: N @ 10-15 kts
Seas 1 -2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
0:00 24:00	24:00	Deploying Streamer 1

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day continuing with streamer deployment operation which continued throughout the day. Streamer 1 (8km) needed a lot of work to get it in order since it had not been in this configuration, since 2008. The Majority of the issues were directly related to power requirement through older modules for the 8km length. In addition we found that there was a issue with the Streamer Reel Slip Ring causing data telemetry issues which were cause difficulty in finding the power related issues in the modules.

Slip Ring was change with a spare and all power related issues were sorted out.

Tomorrow:

The vessel will continue with streamer deployment operation and by end of the day the vessel should have all the towed equipment deployed an getting ready to get into production.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-14	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-14
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	24:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 54 52.141 N
160 45.566 W

HDG: 244 Deg
Speed 4.5 kts

Wind: WSW @ 10-15 kts
Seas 1 -2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event	
	0:00	7:04	Deploying Streamer 1	
	7:04	0:00	16:56	Deploying Streamer 3

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day continuing with streamer deployment operation which continued throughout the day. Streamer 1 (8km) deployment was completed at 07:04 GMT and the deployment of Streamer 3 began right away. Right at the end of the day Streamer 3 and the port deflector were fully deployed.

Tomorrow:

**** Note: That shortly after the day change Streamer 3 developed a hard ground fault on the power line and would not power up. The Lead-in and Deflector were retrieved to troubleshoot the issues and it was found that then Lead-in had a hard electrical failure.

The vessel will retrieve Streamer 3 to Module 29 and connect the tail 4km of streamer 3 into the head 4km of Streamer 4 to make the 8 km streamer. Once connected Streamer 4 will be redeployed and hopefully after midday GMT will be re-deployed out on the deflector.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-15	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-15
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	4:35
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	1:52
Streamer	13:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	4:33
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 54 55.773 N
160 45.223 W

HDG: 343 Deg
Speed 4.8 kts

Wind: NW @ 10-15 kts
Seas 1 -2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	0:30 Transit towards Line
0:30	2:14 Trouble Shooting Power issues on Streamer 3
2:14	4:45 Retrieving 4km of Streamer 3
4:45	12:49 Deploying 4km of Streamer 4
12:49	13:30 Check Trim on Streamers
13:30	15:22 Deploying Source
15:22	19:25 Transiting Towards Line
19:25	22:59 Online Trouble Shooting Syntrak Recording Header issues
22:59	0:00 Circling Around on MGL1110-MCS05

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day with both Streamer 1 & 3 fully deployed and in location. At 00:30 Streamer #3 developed a hard ground fault on the power line and was retrieved. It was found that the lead-in had failed, so at 02:14 the recovery of Streamer 3 (4km) was begun. At 04:45 the first 4km of streamer was onboard and the tail 4km of Streamer 3 was connected to the 4km of streamer on reel 4. At 12:49 Streamer 4 was fully deployed out on the deflector and the vessel started heading towards line MGL1110-MCS05 which deploying the source. At 19:25 the vessel was on Line MGL1110-MCS05 but due to header transfer issues with the Syntrak Recording system no data was being recorded. At 22:59 the vessel began a circle around to the Start of Line MGL1110-MCS05 which continued through the rest of the day. Troubleshooting on the on the Header transfer issues continued through the rest of the day as well.

Tomorrow:

The Vessel will start the day completing the Circle on MGL1110-MCS05 and troubleshooting the Header Transfer issues with the Syntrak Recording. Once Circle is complete the vessel will begin production on MGL1110-MCS05, which should continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-16	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	133.625	267.250
Infill	0.000	0.000
Reshoot	3.625	7.625
	Total: 137.438	274.880

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-16
Recording	16:34
Line Change	0:00
Weather	0:00
Instrument Acquisition	2:40
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	4:46
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 58 32.258 N
160 11 19.548 W

HDG: 164 Deg
Speed 3.4 kts

Wind: SW @ 15-20 kts
Seas 1 -2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	2:40	Circling Around on MGL1110-MCS05 For Inst Acq.			
2:40	3:06	985	1046	61	3.813
3:06	4:03	Power Down for PSO Sighting			
4:03	7:22	Circle Around on MGL1110-MCS05 For PSO Sighting			
7:22	7:22	983	984	1	0.063
7:22	7:52	985	1046	61	3.813
7:52	0:00	1047	3062	2015	125.938

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day completing the Circle on MGL1110-MCS05 and troubleshooting the Header Transfer issues with the Syntrak Recording, which was completed at 02:40 GMT. At which time production was started on MGL1110-MCS05R however at 03:06 GMT the vessel had to power down for PSO Sightings and after an hour it was decided to Circle around to attempt the line yet again. At 04:03 GMT the circle began and at 07:22 GMT the vessel was back at the start of MGL1110-MCS05B which then continued throughout the days without further interruptions.

Tomorrow:

The Vessel will start the day in production on MGL1110-MCS05, which should continue throughout the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-17	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	133.625	267.250
Infill	0.000	0.000
Reshoot	3.625	7.625
	Total: 137.438	274.880

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-17
Recording	22:22
Line Change	0:05
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	1:33
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 52 40.129 N
159 11.628 W

HDG: 71.6 Deg
Speed 4.4 kts

Wind: W @ 15-20 kts
Seas 2-3 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	1:06	Prime MGL1110-MCS05B	3063	3170	107	6.688
1:06	1:46	Power down for PSO Sighting				
1:46	18:10	Prime MGL1110-MCS05B	3238	5294	2056	128.500
18:10	19:03	Power down for PSO Sighting				
19:03	20:56	Prime MGL1110-MCS05B	5394	5613	219	13.688
20:56	21:01	Line Change				
21:01	0:00	Prime MGL1110-MCS45	1031	1402	371	23.188

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day in production on Line MGL1110-MCS05B. During this line there was two separate power downs for PSO Sightings. At 20:56 GMT Line MGL1110-MCS05B was completed and a short line change was made and production resumed on MGL1110-MCS45 at 21:01. Production on this line continued throughout the day.

Tomorrow:

The Vessel will start the day in production on MGL1110-MCS45 and shortly before day change will end this line and make a extended line change for preventive source maintenance before getting back into Production on MGL1110-MGS04 before the end of day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-18	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	155.875	311.750
Infill	0.000	0.000
Reshoot	0.000	7.625
	Total: 155.875	311.750

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-18
Recording	19:56
Line Change	2:30
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:36
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:58
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 21.151 N
157 52.965 W

HDG: 331 Deg
Speed 4.4 kts

Wind: W @ 15-20 kts
Seas 2-3 m

Cruise : MGL1110

Shillington

To: Office of Marine Operations

R/V Marcus G. Langseth

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	1:52	Prime MGL1110-MCS45	1403	1652	249	15.563
1:52	2:50	Power down for PSO Sighting				
2:50	14:27	Prime MGL1110-MCS45	1759	3180	1421	88.813
14:27	16:57	Line Change				
16:57	17:33	Extended Line Change D/T Source Maintenance				
17:33	0:00	Prime MGL1110-MCS45	854	1678	824	51.500

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day in production on Line MGL1110-MCS45. During this line there was one power down for PSO Sightings. At 14:27 GMT Line MGL1110-MCS45 was completed and a line change was made in which Sub-Arrays 3 & 4 were brought onboard for maintenance. After repairs were made to the two sub-arrays production resumed on MGL1110-MCS04 at 17:33 which continued throughout the day.

Tomorrow:

The Vessel will start the day in production on MGL1110-MCS04 and will remain on this line through the end of day.

Best Regards

Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-19	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	180.625	361.250
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 180.625	361.250

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-19
Recording	24:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 54 53.267 N
158 45.476 W

HDG: 339.5 Deg
Speed 4.3kts

Wind: W @ 10-15 kts
Seas 1-2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	0:00	Prime MGL1110-MCS04	1678	4568	2890	180.625

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day in production on Line MGL1110-MCS04 which continued throughout the day.

****NOTE – At 14:30 GMT Sub-Arrays 3 & 4 were secured to untangle the PAM Streamer from Hose bundle #4. The 15:38 GMT the PAM Streamer was safely recovered and Sub-Arrays 3 & 4 were brought back online. During this time Line MGL1110-MCS04 was continued with half the source Volume.

Tomorrow:

The Vessel will start the day continuing production on MGL1110-MCS04. Once it is complete a short line change will be made to MGL1110-MCS34T during which time Sub-Arrays 1 & 2 will be recovered for inspection and maintenance. After MGL1110-MCS34T is complete the vessel will make yet another short line change to MGL1110-MCS34.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-20	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	91.625	183.250
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 91.625	183.250

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-20
Recording	11:04
Line Change	0:19
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	2:08
Streamer	7:06
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	3:23
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 55 57.250 N
158 15.008 W

HDG: 52.08 Deg
Speed 4.4 kts

Wind: W @ 10-15 kts
Seas 1-2 m

Cruise : MGL1110

Shillington

To: Office of Marine Operations

R/V Marcus G. Langseth

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	10:48	Prime MGL1110-MCS04		4568	5996	1428 89.250
10:48	11:07	Line Change				
11:07	11:48	Engine Cooling Issues				
11:48	13:27	Streamer 1 Recovery				
13:27	15:11	Trouble Shooting Streamer 1 Telemetry				
15:11	17:53	FRC Deployed to remove SRD from Streamer 1				
17:53	21:36	Streamer 1 Deployment				
21:36	23:44	Source Deployment				
23:44	0:00	Prime MGL1110-MCS34	1846	1884	38	2.375

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

Vessels started the day in on line MGL1110-MCS04. At 0837 GMT, Streamer 1 stopped recording. It was decided to finish shooting line MGL1110-MCS04 recording only on Streamer 2, and attempt to fix Streamer 1 during tie line between MGL1110MCS04 and MGL1110MCS03. Following completion of the line around 1050 GMT, the ship experienced engine problems (due to a clogged intake). Starboard engine went offline and other systems under serious stress and close to failure. Ship speed slowed to <1 kt and streamers sank, causing SRD to go off on Streamer 1. Gun strings were retrieved to ease the load on the Port Engine. The Starboard engine was brought back online at 1150 GMT. After the issues with the Main Engine we repaired the vessel recovered board the door, head float and lead-in for Streamer 1 to diagnose the Telemetry issues. During the recovery of the Stbd Door one of the lifting line broke. Then the Vessel began troubleshot Streamer 1 by by-passing lead-in and/or slip ring. This ultimately revealed that lead in is close to failure but still working and that slip ring failed. It was decided to tow Streamer 1 off the stern (rather than the door). The FRC was launched at ~1615 GMT to replace SRD on Streamer 1, which was completed by 1750GMT. Once the SRD was repaired work began on the fixed tow point on Streamer 1. Streamer 1 was again deployed bypassed to confirm that is was still operational. Deployment of the source and ramp up of source began at 2030. At 23:44 the vessel began beginning line MGL1110-MCS34..

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

Tomorrow:

The Vessel will start the day continuing production on MGL1110-MCS34. Once it is complete a short line change will be made to MGL1110-MCS03T. After the completion of MGL1110-MCS03T the vessel will again make another line change to MGL1110-MCS03 which will continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-21	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	180.688	361.380
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 180.688	361.380

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-21
Recording	22:40
Line Change	1:20
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 55 14 06.533 N
156 56 52.873 W

HDG: 160.1 Deg
Speed 3.8 kts

Wind: SW @ 15-20 kts
Seas 3 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	3:09	Prime MGL1110-MCS34	1885	2302	417	26.063
	3:09	3:40	Line Change				
	3:40	6:23	Prime MGL1110-MCS03T	1089	1395	306	19.125
	6:23	7:12	Line Change				
	7:12	0:00	Prime MGL1110-MCS03	1110	3278	2168	135.500

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS34. At 03:09 GMT the Line was completed and a short line change to MGL1110-MCS03T was started. At 03:40 GMT line MGL1110-MCS03T was started and continued until 06:23 GMT, at which time another short line change took place to MGL1110-MCS03. MGL1110-MCS03 was started at 07:12 GMT and continued throughout the rest of the day.

Tomorrow:

The Vessel will start the day continuing production on MGL1110-MCS03 which will continue throughout the day..

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-22	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	170.563	280.780
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 170.563	280.780

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-22
Recording	23:36
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:24
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 48 59.246 N
155 37 54.827 W

HDG: 157 Deg
Speed 4.5 kts

Wind: NW @ 15-20 kts
Seas 3 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Shillington
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	6:32	Prime MGL1110-MCS03	3279	4031	752	47.000
	6:32	6:41	Syntrak Lockup				
	6:41	20:30	Prime MGL1110-MCS03	4046	5614	1568	98.000
	20:30	20:45	Syntrak Lockup				
	20:45	0:00	Prime MGL1110-MCS03	5741	6150	409	25.563

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS03 which continued throughout the rest of the day. There were two Syntrak lockups during the day which required restarts. At 12:30 GMT streamer 1 started having Telemetry Error which was affecting the data on this streamer only. At 20:45 GMT, after the Second Syntrak Lockup Streamer 1 was back operation and recording good data.

Tomorrow:

The Vessel will start the day continuing production on MGL1110-MCS03, about 2 hours after day change the vessel will make a line change to Line MGL1110-MCS23A. While on this line the vessel will conduct Preventive Maintenance on Sub-Arrays 1 & 4. Once that Maintenance is completed the line will be started and before the end of the day another line change will be made to MGL1110-23B which should continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-23	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	170.563	280.780
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	170.563	280.780

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-23
Recording	17:34
Line Change	1:39
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	4:47
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 48.176 N
156 17.302 W

HDG: 100 Deg
Speed 4.2 kts

Wind: W @ 20-25 kts
Seas 3 - 4 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	2:32 Prime MGL1110-MCS03		6151	6478	327 20.438
2:32	3:38 Line Change				
3:38	5:34 Prime MGL1110-MCS23A		1121	1359	238 14.875
5:34	6:26 Power down for PSO Sighting				
6:26	13:14 Prime MGL1110-MCS23A		1450	2265	815 50.938
13:14	13:45 Line Change				
13:45	15:47 Prime MGL1110-MCS23B		1066	1316	250 15.625
15:47	19:42 Power down for PSO Sighting				
19:42	22:14 Prime MGL1110-MCS23B		1719	2029	310 19.375
22:14	22:16 Line Change				
22:16	0:00 Prime MGL1110-MCS23C		1015	1226	211 13.188

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS03 which concluded at 02:32. During this line change Sub-Array #4 was retrieved for inspection. Once Sub-Array 4 was back out the vessel began production on Line MGL1110-MCS23A until 13:14 GMT at which time the vessel began making another line change. As 13:45 MGL1110-MCS23B was started and acquisition continued until 22:14 GMT, when another short line change was made. At 22:16 MGL1110-MCS23C began can continued throughout the rest of the day.

We had two power/shutdowns for PSO sightings today one during MGL1110-MCS23A and the second much longer one on MGL1110-MCS23B

Tomorrow:

The Vessel will start the day continuing production on MGL1110-MCS23B, which will continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-24	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	184.875	369.750
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	184.875	369.750

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-24
Recording	24:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 48.108 N
153 28.918 W

HDG: 100 Deg
Speed 4.2 kts

Wind: W @ 20-25 kts
Seas 3 - 4 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	24:00	Prime MGL1110-MCS23C	1226	4184	2958	184.875

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS23C which continued throughout the rest of the day.

****Note: At 03:26 the vessel lose communication with Sub-Array #1. At attempt to retrieve it was made but due to the Weather Conditions at the time this attempt was aborted. The PI was given the option to continue production with a reduced volume or the vessel could circle around, giving the source mechanics a better ride to retrieve the sub-array. The PI decided that the scientific objectives for the current line could be met with a reduced volume so the vessel continued down line and plans were made to pick up Sub-Array 1 & 2 during the upcoming line change, once the vessel maneuvered .

Tomorrow:

The Vessel will start the day continuing production on MGL1110-MCS23C, which should conclude shortly after day change. The vessel will make a normal line change to MGL1110-MCS23D, during the line change Sub-Arrays 1 & 2 will be brought onboard to fix power issues on string 1 and to do preventive maintenance on String 2. Once repairs and maintenance are complete the sub-arrays will be re-deployed and production on MGL1110-MCS23D will begin and should last throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-25	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	150.750	301.500
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	150.750	301.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-25
Recording	19:14
Line Change	4:46
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat: 055 14 59.772 N
Lon: 154 15 12.792 W

HDG: 326.2 Deg.
BSP: 4.5 Kts SOG

Wind: W @ 20 – 25 Kts.
Seas: 2-3m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	0:45 Prime MGL1110-MCS23C		4185	4280	95	5.938
0:45	5:23 Line Change					
5:23	11:15 Prime MGL1110-MCS23D		1534	2258	724	45.250
11:15	11:23 Line Change					
11:23	0:00 Prime MGL1110-MCS02		1018	2611	1593	99.563

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS23C and at 00:45 GMT complete this line and made a line change to MGL1110-MCS23D. During this line change maintenance on Sub-Arrays 1 & 2 was completed and at 05:23 MGL1110-MCS23D was started. This line was completed at 11:15 GMT and a short line change to MGL1110-MCS02 was made. MGL1110-MCS02 was started at 11:23 and production continued on this line throughout the day.

Tomorrow:

The vessel will start the day by continuing production on MGL1110-MCS02, which should continue throughout the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-26	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	139.688	279.375
Infill	10.563	21.125
Reshoot	4.625	9.250
Total:	154.875	309.750

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-26
Recording	16:45
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	7:15
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat: 56 20 58.6 N
Lon: 155 36 50.139 W

HDG: 330 Deg.
BSP: 4.4 Kts SOG

Wind: W @ 10-15 Kts.
Seas: 1 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	5:00		2612	3292	680	42.500
5:00	5:38					
5:38	17:23		3371	4926	1555	97.188
17:23	18:00					
18:00	22:05					
22:05	23:25		4756	4925	169	10.563
23:25	0:00		4926	5000	74	4.625

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS02 and at 18:00 GMT after a power down for a PSO sighting the line was ended and the vessel began a circle to STBD to rejoin the line about 10km south of the power down shot point. At 22:05 the Circle was complete and the vessel resumed production on MGL1110-MCS02R which continued throughout the day.

Tomorrow:

The vessel will start the day by continuing production on MGL1110-MCS02R. At the end of the line the vessel will make a short line change to MGL1110-MCS12A which should continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-27	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	161.00	322.000
Infill	0.000	0.000
Reshoot	0.250	0.500
Total:	161.250	322.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-27
Recording	20:31
Line Change	0:41
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	2:48
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat: 57 08 10.820 N
Lon: 155 14 57.094 W

HDG: 146 Deg.
BSP: 3.6 Kts SOG

Wind: NW @ 10-15 Kts.
Seas: 1 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:02 Reshoot MGL1110-MCS02R	5001	5005	4	0.250
0:02	3:12 Prime MGL1110-MCS02R	5006	5427	421	26.313
3:12	4:18 Powered down PSO Sighting				
4:18	6:13 Prime MGL1110-MCS02R	5553	5792	239	14.938
6:13	6:22 Powered down PSO Sighting				
6:22	10:55 Prime MGL1110-MCS02R	5810	6385	575	35.938
10:55	11:16 Line Change				
11:16	14:20 Prime MGL1110-MCS12A	1036	1423	387	24.188
14:20	15:01 Powered down PSO Sighting				
15:01	15:50 Prime MGL1110-MCS12A	1508	1607	99	6.188
15:50	16:22 Powered down PSO Sighting				
16:22	18:49 Prime MGL1110-MCS12A	1663	1972	309	19.313
18:49	19:09 Line Change				
19:09	23:31 Prime MGL1110-MCS01A	1034	1580	546	34.125
23:31	23:49 Powered down PSO Sighting				
23:49	0:00 Prime MGL1110-MCS01B	1617	1635	18	1.125

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS02R which it completed along with MGL1110-MCS12A, & MGL1110-MCS01A. At the end of the day the vessel was in production on MGL1110-MCS1B. Throughout the day there were numerous power downs for PSO sightings. No other major issues occurred.

Tomorrow:

The vessel will start the day by continuing production on MGL1110-MCS01B. At the end of the line the vessel will make a short line change to MGL1110-MCS12B and then shortly after make another shot line change to MGL1110-MCS12C, which should continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-27	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	153.083	306.130
Infill	0.000	0.000
Reshoot	0.250	0.500
Total:	153.083	306.130

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-27	
Recording	20:16	
Line Change	0:37	
Weather	0:00	
Instrument Acquisition	0:00	
Instrument Navigation	0:00	
OBS Rosette Drop Test	0:00	
OBS Deployment	0:00	
OBS Recovery	0:00	
Hydraulics	0:00	
Source	0:00	
Streamer	0:00	
Seismic Air Compressor	0:00	
Mitigation/PAM	0:24	
Transit	0:00	
Ship Repair	0:00	
Maneuvering	0:00	
Port Call	0:00	
Other	2:43	Currents in Shallow water.
Total:	24.00	

UTC Midnight (24:00) Position / Heading:

Lat: 56 04.455 N
Lon: 154 45.294 W

HDG: 048 Deg.
BSP: 3.35 Kts SOG

Wind: NW @ 10-15 Kts.
Seas: 1 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	1:24 Prime MGL1110-MCS01B	1635	1817	182	11.375
1:24	1:31 Power down for PSO Sighting				
1:31	5:38 Prime MGL1110-MCS01B	1833	2388	555	34.688
5:38	5:57 Line Change				
5:57	11:48 Prime MGL1110-MCS12B	1047	1780	733	45.813
11:48	14:31 EEOL due to Currents				
14:31	20:25 Prime MGL1110-MCS12C	1051	1659	608	38.000
20:25	20:43 Line Change				
20:43	23:43 Prime MGL1110-MCS12D	1065	1436	371	23.188
23:43	0:00 Power down for PSO Sighting				

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS01B which ended at 05:38 GMT. There was a short line change to MGL1110-MCS12B which started at 05:57 GMT and then ended early at 11:48 GMT. Line MGL1110-MCS12B ended early due to currents in shallow water are making keeping the streamer up impossible at the speed required to acquire the data. Once out of the Shallow water high current are production was restarted at 14:31 GMT on MGL1110-MCS12C. This line ended at 20:25 GMT at which time a short line change was made to MGL1110-MCS12D which continued throughout the rest of the day. However at the end of the day the vessel was powered down for a PSO Sighting which also continued in to the next day.

Tomorrow:

The vessel will start the day by continuing production on MGL1110-MCS12B. At the end of the line the vessel will make a short line change to MGL1110- which should continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-29	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	134.625	244.560
Infill	0.000	0.000
Reshoot	0.250	0.000
Total:	134.625	244.56

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-29
Recording	16:29
Line Change	0:20
Weather	0:00
Instrument Acquisition	2:56
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	4:15
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat: 55 16 01.239 N
Lon: 153 31 55.161 W

HDG: 249 Deg.
BSP: 4.3 Kts SOG

Wind: N @ 15-20 Kts.
Seas: 1-2 m

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:39	Power down for PSO Sighting				
0:39	1:44	Prime MGL1110-MCS12D	1527	1651	124	7.750
1:44	4:24	Power down for PSO Sighting				
4:24	5:06	Prime MGL1110-MCS12D	1945	2031	86	5.375
5:06	6:02	Power down for PSO Sighting				
6:02	17:45	Prime MGL1110-MCS01C	1025	2574	1549	96.813
17:45	20:41	Syntrak Recordign Issues				
20:41	21:04	Prime MGL1110-MCS01C Single Str	2907	2951	44	2.750
21:04	21:24	Line Change				
21:24	0:00	Prime MGL1110-MCS12E Single Str	1062	1413	351	21.938

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out powered down for a PSO sighting on line MGL1110-MCS12D, which ended after 05:06 GMT in which there were a few more power downs for PSO Sightings. There was a line change during when MGL1110-MCS12D ended and MGL1110-MCS01C started. First good shot point (FGSP) on Line MGL1110-MCS01C was at 06:02 GMT and the line continued throughout the rest of the day. However during this line there were numerous errors with Streamer 1 and telemetry errors causing the Syntrak to stop recording data. After all onboard trouble shooting was complete it was decided to turn off streamer 1 and to continue to record with only Streamer 4. Streamer 1 will be left in the water for Navigation purposes, but do to the issues it is causing with the recording system it will be left powered off and not seismic data will be recorded.

**** Note – Shortly before end of the day, the Magnetometer stopped transmitting data to the vessel. The tow fish was retrieved and after some inspection it appears that the tow leader took a strike by an unknown object and was damaged. As this was our spare tow leader, no magnetometer data will be recoded until one of the two damaged tow leaders are repaired.

Shillington

Cruise : MGL1110

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

Tomorrow:

The vessel will start the day by continuing production on MGL1110-MCS12E. At the end of the line the vessel will make a short line change to MGL1110- MCS12F which should continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-30	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	182.063	182.063
Infill	0.000	0.000
Reshoot	0.250	0.000
	Total: 182.063	182.063

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-30
Recording	21:26
Line Change	0:26
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	2:08
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

Lat: 55 25 43.015 N
Lon: 155 42 19.968 W

HDG: 335 Deg.
BSP: 4.3 Kts SOG

Wind: W @ 15-20 Kts.
Seas: 1-2 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	1:50	Prime MGL1110-MCS12E	1414	1658	244	15.250
1:50	2:21	Power down for PSO Sighting				
2:21	5:48	Prime MGL1110-MCS12E	1727	2177	450	28.125
5:48	6:23	Power down for PSO Sighting				
6:23	12:44	Prime MGL1110-MCS12E	2253	3095	842	52.625
12:44	13:10	Line Change				
13:10	15:19	Prime MGL1110-MCS12F	1040	1366	326	20.375
15:19	16:21	Power down for PSO Sighting				
16:21	0:00	Prime MGL1110-MCS12F	1487	2538	1051	65.688

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS12E which ended at 12:44 GMT. At that time a short line change was made and the vessel started production on MGL1110-MCS12F which continued throughout the rest of the day. During both line there were again power-downs for PSO Sightings.

Tomorrow:

The vessel will start the day by continuing production on MGL1110-MCS12F. At the end of the line the vessel will make a short line change to MGL1110- MCS07 which will continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-07-31	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	165.060	165.060
Infill	0.000	0.000
Reshoot	0.250	0.000
Total:	165.060	165.060

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-07-31
Recording	19:27
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	4:33
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat: 54 52 17.672 N
Lon: 158 29 07.975 W

HDG: 248 Deg.
BSP: 4.3 Kts SOG

Wind: W @ 15-20 Kts.
Seas: 1-2 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	2:49	Prime MGL1110-MCS12F	2538	2883	345	21.563
2:49	3:42	Power down for PSO Sighting				
3:42	7:14	Prime MGL1110-MCS07	1136	1685	549	34.313
7:14	8:24	Power down for PSO Sighting				
8:24	18:35	Prime MGL1110-MCS07	1853	3195	1342	83.875
18:35	19:34	Power down for PSO Sighting				
19:34	19:49	Prime MGL1110-MCS07	3347	3384	37	2.313
19:49	21:20	Power down for PSO Sighting				
21:20	0:00	Prime MGL1110-MCS07	3567	3935	368	23.000

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS12F which ended at 02:49 GMT right as the vessel was being powered down for a PSO sighting. The vessel made a Line change to MGL1110-MCS07. Once the vessel was cleared to begin ramping up the Source, line MGL1110-MCS07 was started and continued throughout the day, with a few interruptions for PSO Sightings.

*** NOTE: One of the Magnetometer's tow leaders were re-terminated and the Magnetometer was put back into service.

Tomorrow:

The vessel will start the day by continuing production on MGL1110-MCS07 which will continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-08-01	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	203.438	203.438
Infill	0.000	0.000
Reshoot	0.000	0.000
	Total: 203.438	203.438

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-08-01
Recording	23:46
Line Change	0:14
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
	Total: 24.00

UTC Midnight (24:00) Position / Heading:

Lat: 54 57 03.874 N
Lon: 160 53 47.634 W

HDG: 350 Deg.
BSP: 4.8 Kts SOG

Wind: W @ 5-10 Kts.
Seas: 1-2 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	17:23	Prime MGL1110-MCS07	3936	6291	2355	147.188
17:23	17:37	Line change				
17:37	0:00	Prime MGL1110-MCS56	1029	1929	900	56.250

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, J. Johnson, Eaton, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS07 which ended at 17:23 GMT. The vessel made a Line change to MGL1110-MCS56 which continued throughout the rest of day.

Tomorrow:

The vessel will start the day by continuing production on MGL1110-MCS56 once completed the vessel will make a normal line change to MGL1110-MCS06

Best Regards
Robert Steinhaus

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-08-02	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	175.250	175.250
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	175.250	175.250

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-08-02
Recording	20:11
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	3:49
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat: 53 25 50.960 N
Lon: 161 00 00.135 W

HDG: 180 Deg.
BSP: 4.9 Kts SOG

Wind: NW @ 25-30 Kts.
Seas: 2-3 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS56 which ended at 01:31 GMT with the vessel powered down for a PSO sighting. The vessel made a Line change to MGL1110-MCS06 which started at 05:02 and continued throughout the rest of day.

**** Note – Technician Mr. Ryan Eaton was removed from the vessel via the chase vessel to receive treatment at a shore side facility for an injury. Technician Ms. Jamee Johnson accompanied Mr. Ryan Eaton ashore to provide support.

Tomorrow:

The vessel will start the day by continuing production on MGL1110-MCS06 which continued throughout the rest of the day.

Best Regards
Robert Steinhaus

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-08-03	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	185.500	185.500
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	185.500	185.500

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-08-03
Recording	22:15
Line Change	0:43
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:30
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:32
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat: 53 03.913 N
Lon: 160 31.222 W

HDG: 119 Deg.
BSP: 3.8 Kts SOG

Wind: W @ 15-20 Kts.
Seas: 2-3 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	12:11	Prime MGL1110-MCS06		4005	5629	1624	101.500
12:11	12:39	Line Change					
12:39	15:15	Prime MGL1110-MCS67A		1055	1395	340	21.250
15:15	15:30	Line Change					
15:30	22:58	Prime MGL1110-MCS67B		1028	1984	956	59.750
22:58	23:30	Maneuvering to Retrieve Towed Equipment					
23:30	0:00	Retrieving Energy Source					

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out in production on MGL1110-MCS06 which ended at 12:11 GMT with The vessel made a Line change to MGL1110-MCS67A which started at 12:39 GMT and end at 15:15 GMT. The Vessel made another short line change to line MGL1110-MCS67B which started at 15:30 GMT and ended at 22:58 GMT which concluded the MSC Seismic Acquisition portion of the survey. The Vessel did some maneuvering in preparation to start retrieval of all towed equipment which commenced at 23:30 and continued throughout the rest of the day.

Tomorrow:

The vessel will start the day by continuing to retrieve all towed equipment. Once all the equipment has been recovered and secured the vessel will start transiting to Dutch Harbor Alaska, which will continue throughout the rest of the day.

Best Regards
Robert Steinhaus

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-08-03	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	0.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	0.000	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-08-04
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	0:20
Streamer	7:37
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	16:03
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat: 54 03.470 N
Lon: 163 38.145 W

HDG: 294 Deg.
BSP: 10.11 Kts SOG

Wind: W @ 20-25 Kts.
Seas: 1-2 m

Shillington

Cruise : MGL1110

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert Steinhaus – Chief Science Officer (LDEO)

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	0:20 Retrieving Energy Source
0:20	7:57 Retrieving Streamers
7:57	0:00 Transit to Dutch Harbor, Alaska

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, Spoto, Tatro, Martello, Groves, Martinson, Erwin

Science Party on board:

Shillington, Nedimovic, Webb, Deleschluse, Becel, Li, Kuehn, Farkas, Biescas, Eddy, Wessbecher, Hostetler, Perls, Zietman

Marine Mammal Observer Staff on board:

Milne, Wood, Davis, Voigtlander, Cummings, Lee

5. Daily Summary:

The Vessel started the day out retrieving the energy source which was onboard at 00:20 GMT. At that time recovery operations for the streamer cables began. At 07:57 GMT all towed equipment was onboard and secure and the vessel got underway for Dutch Harbor, Alaska, which continued throughout the rest of the day.

Tomorrow:

The vessel will start the day by continuing its transit to Dutch Harbor, Alaska and should arrive in port ~15:00 GMT.

Best Regards
Robert Steinhaus