

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-06	<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>	2011-09-06
Recording	0:00
Line Change	0:00
Weather	6:17
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	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	0:43
Port Call	17:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

POS: 53 52 46.458 N
166 31 24.386 W

HDG: 105 Deg
Speed 0 kts

Wind: 20-25 knots
Seas 1-3 ft.

Cruise : MGL1112

To: Office of Marine Operations
Cc: Reports Group
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Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

00:00-17:00 Port call
17:00-17:43 Maneuvering to anchorage
17:43-24:00 Anchored just outside Dutch Harbor – Standing by for Weather.

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

Continue Pier side in Dutch Harbor Mobilizing for MGL1112, until 17:00 GMT when the vessel departed for anchorage. At 17:43 GMT the vessel was secured on Anchor standing by for weather offshore to subside.

Tomorrow:

Continue at anchorage throughout the day standing by for Weather.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

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

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-07
Recording	0:00
Line Change	0:00
Weather	24:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	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 52 46.458 N
166 31 24.386 W

HDG: 105 Deg
Speed 0 kts

Wind: 20-25 knots
Seas 1-3 ft.

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

00:00-24:00 Anchored just outside Dutch Harbor – Standing by for Weather.

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel secured on Anchor in Dutch Harbor standing by for weather offshore to subside, throughout the day..

Tomorrow:

At the start of the day the vessel will continue standing by for Weather at anchorage in Dutch Harbor. At ~15:00 GMT the vessel will get underway for MGL1112 Mission Array. The Transit will continue throughout the rest of the day

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-08	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-08
Recording	0:00
Line Change	0:00
Weather	15:10
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	8:50
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 40 28.124 N
166 14 13.997 W

HDG: 018 Deg
Speed 5.7 kts

Wind: NNW at 30-35 knots
Seas 3-4m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event
	0:00	15:10	Anchored Standing by for WX
	15:10	0:00	8:50 Transit to MGL1112 Survey Area

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel secured on Anchor in Dutch Harbor standing by for weather offshore to subside. At 15:10 GMT the vessel recovered the anchor and got underway for MGL1112 Mission Area. The vessel remained in transit throughout the rest of the day.

Tomorrow:

At the start of the day the vessel continued in transit for MGL1112 Mission Area. The Transit will continue throughout the day

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-09	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-09
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
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	24:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 57.29.11.154N
Long 166.20.22.235W

Hdg 339.0
BSP 12.4 Kts

Wind NW @ 16 Kts
Seas 1 - 2m
Depth 69m

3. TIME SUMMARY

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

	Time	Amount of Time	Event
	00:00	24:00	24:00
			Transit to MGL1112 Survey Area

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel remained in transit throughout the day. All Underway science system operation and logging

Tomorrow:

At the start of the day the vessel continued in transit for MGL1112 Mission Area. The Transit will continue throughout the day

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-10	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-10
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	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	24:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat.: 061.48.30.696N
Long.: 168.25.50.144W

CMG: 2.8 Deg
BSP: 11.7 KTS

Wind: NW @10.3kt KTS
Seas: 3-4m
Water Depth: 32m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
00:00	24:00	24:00 Transit to MGL1112 Survey Area

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel remained in transit throughout the day. All Underway science system operation and logging.

Tomorrow:

At the start of the day the vessel continued in transit for MGL1112 Mission Area. The Transit will continue throughout the day

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-11	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-11
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
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	24:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Pos: 66.44.31.060 N
168.08.27.906 W

Hdg: 5.0 Deg.
BSP: 13.1 Kts

Wind SSE 20-25 KTS
Seas 2-4 m
Depth 30m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event
	00:00	24:00	24:00
			Transit to MGL1112 Survey Area

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel remained in transit throughout the day. All Underway science systems are operational and logging.

Tomorrow:

At the start of the day the vessel continued in transit for MGL1112 Mission Area. The Transit will continue until ~18:00 GMT at which time the vessel will start to deploy the towed seismic Equipment. Deployment will continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-12	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-12
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	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	3:32
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	20:28
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 070.55.25.060N
Lon 166.40.27.389W

Hdg 40.8 Deg.
BSP 5.0 KTS

Wind ESE @ 8.9 KTS
Seas 1-2 m
Depth 45m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event
	0:00	20:28	20:28
	20:28	0:00	3:32
			Transit to MGL1112 Survey Area
			Deploying Streamer #3

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel remained in transit unit 20:28 at which time the vessel was slowed to 5 kts and the deployment of the streamer and other towed equipment was started.

At end of Day ~3.5 km of Steamer, Sub-Array 2, PAM Streamer, and the Maggie were all deployed.

Tomorrow:

At the start of the day the vessel continued deploying streamer 3. This is expected to be concluded by 08:00 GMT and the vessel will begin production on Line - MGL1112MCS01A

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-13	<u>Sailed Km</u>
Prime	82.313
Infill	0.000
Reshoot	6.975
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-13
Recording	08:06
Line Change	0:12
Weather	0:00
Instrument Acquisition	03:28
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	09:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	03:14
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 072 02 42.369N
Lon 169 39 14.781W

Hdg 010 Deg
BSP 5.3 KTS

Wind Calm
Seas >1 m
Depth 40 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	9:00				
	Deploying Streamer 4				
9:00	12:14				
	Maneuvering to Line				
12:14	13:02	861	1046	185	6.938
13:02	13:57				
	Circle due to Seisnet Lockup				
13:57	14:34	2247	2402	155	5.813
14:34	15:46				
	Con't Circle due to Seisnet Lockup				
15:46	15:56	822	860	38	1.425
15:56	16:40	860	1046	186	6.975
16:40	22:00	1047	2402	1355	50.813
22:00	22:12				
	Line Change				
22:12	0:00	1123	1585	462	17.325

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day continuing deploy of Streamer 4 which continued until 09:00 GMT at which time the vessel began maneuvering for Line MCS01A. Line MCS01A was started at 12:14 GMT, but due to technical issues with Seisnet the line was aborted and the vessel began circling around at 13:57 GMT to restart the line. During the circle at shortest Line MCST2 was acquired to confirm that the issues with writing seismic data to Seisnet had been worked out. The Circle was completed at 15:46 GMT at which time Production on line MCS01AR began. MCS01AR continued until 22:00 at which time a short line change was made on to MCS01B which continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel was in Production on MCS01B which once complete the Vessel will make a short line change to MCS01C which will continue throughout the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-14	<u>Sailed Km</u>
Prime	202.313
Infill	0.000
Reshoot	0.000
Total: 202.313	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-14
Recording	23:16
Line Change	0:02
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:17
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:05
Mitigation/PAM	0:20
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 73 50 16.483N
Lon 167 22 30.233W

Hdg 319 Deg
BSP 5.3 KTS

Wind NE 10-15 Kts
Seas 1-2 m
Depth 187 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:53	Prime MGL1112MCS01B	1586	1819	233	8.738
0:53	0:55	Power down for PSO Sighting				
0:55	3:41	Prime MGL1112MCS01B	1829	2571	742	27.825
3:41	3:59	Power down for PSO Sighting				
3:59	4:48	Prime MGL1112MCS01B	2650	2869	219	8.213
4:48	5:05	Spectra Lockup				
5:05	8:09	Prime MGL1112MCS01B	2949	3747	798	29.925
8:09	8:14	Seismic Air				
8:14	11:16	Prime MGL1112MCS01B	3767	4524	757	28.388
11:16	11:18	Line Change				
11:18	0:00	Prime MGL1112MCS01C	1023	3669	2646	99.225

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS01B which continued until 11:16 GMT. The Vessel made a short line change on to MCS01C and production continued throughout the rest of the day.

** During MCS01B there were 4 minor issues that caused gaps in the data. They were to PSO Sightings, one due to a spectra lock up, and one other for loose of Seismic Air to the Energy Source.

Tomorrow:

At the start of the day the vessel was in Production on MCS01C which once complete the Vessel will make a short line change to MCS01D which will continue throughout the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-15	<u>Sailed Km</u>
Prime	262.350
Infill	0.000
Reshoot	0.000
Total: 262.350	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-15
Recording	23:49
Line Change	0:11
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
CTD Cast	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 75 27 32.140N
Lon 172 28 36.233W

Hdg 349 Deg
BSP 5.8 KTS

Wind NE 5-10 Kts
Seas 1-2 m
Depth 1159 m

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	20:45	Prime MGL1112MCS01C	3670	9800	6130	229.875
	20:45	20:56	Line Change				
	20:56	0:00	Prime MGL1112MCS01D	1029	1895	866	32.475

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS01C which continued until 20:45 GMT. The Vessel made a short line change on to MCS01D and production continued throughout the rest of the day.

** During Line Change to MCS01D sub-array 3 was re-deployed with 6m depth ropes and the record length was changed from 12 to 10 sec.

Tomorrow:

At the start of the day the vessel was in Production on MCS01D which once complete the Vessel will make a line change to MCS01E which will continue throughout the day.

Best Regards

Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-16	<u>Sailed Km</u>
Prime	247.725
Infill	0.000
Reshoot	0.000
Total: 247.725	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-16
Recording	23:23
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
CTD Cast	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 74 20 24.740 N
Lon 166 16 46.246 W

Hdg 131.4 Deg
BSP 5.6 KTS

Wind E 10-15 Kts
Seas 1-2 m
Depth 286 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:48	Prime MGL1112MCS01D	1896	2124	228	8.550
0:48	1:22	Line Change				
1:22	5:20	Prime MGL1112MCST3	1026	2136	1110	41.625
5:20	5:23	Line Change				
5:23	0:00	Prime MGL1112MCS01E	3311	8579	5268	197.550

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS01D which was ended early at 00:48 GMT due to the approaching ICE pack. The Vessel made a short line change on to MCST3 which started at 01:22 GMT and continued until 05:20 GMT at which time the vessel made another short line change on to MCS01E, which production continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel was in Production on MCS01E which once complete the Vessel will make a line change to MCS01T which will continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-17	<u>Sailed Km</u>
Prime	252.388
Infill	0.000
Reshoot	0.000
Total: 252.388	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-17
Recording	23:54
Line Change	0:06
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
CTD Cast	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 73 42 25.381 N
Lon 161 52 50.669 W

Hdg 325.2 Deg
BSP 5.8 KTS

Wind N 10-15 Kts
Seas 1-2 m
Depth 261m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	2:48 Prime MGL1112MCS01E		8580	9373	793 29.738
2:48	2:50 Line Change				
2:50	15:44 Prime MGL1112MCS01EA	9384	13020	3636	136.350
15:44	15:46 Line Change				
15:46	21:35 Prime MGL1112MCS01T	1022	2657	1635	61.313
21:35	21:37 Line Change				
21:37	0:00 Prime MGL1112MCS02	1003	1664	661	24.788

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS01E which was ended early at 02:48 GMT due to having to change over to Sub-Array 4 because of 2 elements down on Sub-Array 3. At 02:50 GMT line MCS01EA was started and continued until 15:44 GMT. A short line change was made to MCS01T which went until 21:35 GMT at which time another short line change was made to MCS02 which production continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel was in Production on MCS02 which will continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-18	<u>Sailed Km</u>
Prime	253.538
Infill	0.000
Reshoot	0.000
Total: 253.538	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-18
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
CTD Cast	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 75 28 58.139 N
Lon 167 13 23.441 W

Hdg 315.2 Deg
BSP 5.3 KTS

Wind NW 10-15 Kts
Seas 1-2 m
Depth 201m

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:00	Prime MGL1112MCS02	1665	8426	6761 253.538

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim Kopri, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS02 which throughout the rest of the day.

Tomorrow:

At the start of the day the vessel was in Production on MCS02 which should end around 13:30 GMT at which time a short line change will be made to MCS02T and then onto MCS03 which will continue throughout the rest of the day.

Best Regards

Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-19	<u>Sailed Km</u>
Prime	209.325
Infill	0.000
Reshoot	0.000
Total: 209.325	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-19	
Recording	20:37	
Line Change	0:10	
Weather	0:00	
Instrument Acquisition	0:02	
Instrument Navigation	0:00	
OBS Rosette Drop Test	0:00	
OBS Deployment	0:00	
OBS Recovery	0:00	
CTD Cast	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	3:11	Maneuvering around Ice Floes
Total: 24.00		

UTC Midnight (24:00) Position / Heading:

Lat 76 03 07.218 N
Lon 165 52 09.394 W

Hdg 140.7 Deg
BSP 5.7 KTS

Wind NW 10-15 Kts
Seas 1-2 m
Depth 358 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	9:58	Prime MGL1112MCS02	8427	11185	2758	103.425
9:58	10:06	Line Change				
10:06	12:47	Prime MGL1112MCS4T	1030	1717	687	25.763
12:47	13:51	Line Change - Due to Ice				
13:51	15:01	Prime MGL1112MCS5T	1040	1361	321	12.038
15:01	17:08	Line Change - Due to Ice				
17:08	20:16	Prime MGL1112MCS6T	1319	2105	786	29.475
20:16	20:18	Line Change				
20:18	20:54	Prime MGL1112MCS03B	1172	1340	168	6.300
20:54	20:56	Syntrak Restart				
20:56	0:00	Prime MGL1112MCS03BA	1349	2211	862	32.325

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS02 and at 09:58 GMT the line was ended early due to Ice Floes. The started maneuvering to avoid the Ice and during that time while the vessel was on a steady course, MCS4T, MCS5T, and MCS6T were acquired. At 20:18 GMT the vessel was clear of the Ice and started MCS03B back to the Southeast. The Line MCS03B was stopped and restarted minutes later as MCS03BA to re-set the Syntrak recording system, which continue throughout the rest of the day.

Tomorrow:

At the start of the day the vessel was in Production on MCS03BA which will continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-20	<u>Sailed Km</u>
Prime	255.638
Infill	0.000
Reshoot	0.000
Total: 255.638	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-20
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
CTD Cast	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 74 12 57.916 N
Lon 160 31 15.089 W

Hdg 141.4 Deg
BSP 5.8 KTS

Wind NE 5-10 Kts
Seas 1 m
Depth 493 m

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:00 Prime MGL1112MCS03BA	2212	9029	6817	255.638

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS03BA which continue throughout the rest of the day.

Tomorrow:

At the start of the day the vessel was in Production on MCS03BA, a short line change will be made to MCS03T and then another on to MCS04 which will continue throughout the rest of the day.

Best Regards

Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-21	<u>Sailed Km</u>
Prime	237.563
Infill	0.000
Reshoot	0.000
Total: 237.563	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-21
Recording	22:48
Line Change	0:48
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:04
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	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	0:20
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total: 24.00	

UTC Midnight (24:00) Position / Heading:

Lat 75 13 30.263 N
Lon 160 28 34.763 W

Hdg 325.4 Deg
BSP 5.9 KTS

Wind NNW 10-15 Kts
Seas 1 – 2 m
Depth 2081.5 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	1:45	Prime MGL1112MCS03BA	9030	9537	507	19.013
1:45	2:05	Seismic Air Compressor offline				
2:05	4:49	Prime MGL1112MCS03BA	9618	10377	759	28.463
4:49	5:25	Line Change				
5:25	11:03	Prime MGL1112MCS03T	1009	2636	1627	61.013
11:03	11:15	Line Change				
11:15	20:52	Prime MGL1112MCS04	1048	3814	2766	103.725
20:52	20:56	Spectra NCC Lockup				
20:56	0:00	Prime MGL1112MCS04	3831	4507	676	25.350

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS03BA which continued until 04:49 GMT. A line change was made an MCS03T was started at 05:25 GMT and continued until 11:03 GMT. At which time another line change was made on to MCS04 which continued throughout the rest of the day.

** Note: During MCS03BA the Seismic Air Compressor shut down for ~20 min and during MCS04 there was a SPECTRA NCC lock up which took ~4 min to get reset.

Tomorrow:

At the start of the day the vessel in Production on MCS04, a short line change will be made to MCS04T which will continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-21	<u>Sailed Km</u>
Prime	245.348
Infill	0.000
Reshoot	0.000
Total: 245.348	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-21
Recording	22:48
Line Change	0:48
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:04
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	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	0:20
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total: 24.00	

UTC Midnight (24:00) Position / Heading:

Lat 75 13 30.263 N
Lon 160 28 34.763 W

Hdg 325.4 Deg
BSP 5.9 KTS

Wind NNW 10-15 Kts
Seas 1 – 2 m
Depth 2081.5 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	1:45	Prime MGL1112MCS03BA	9030	9537	507	19.013
	1:45	2:05	Seismic Air Compressor offline				
	2:05	4:49	Prime MGL1112MCS03BA	9618	10377	759	28.463
	4:49	5:25	Line Change				
	5:25	11:03	Prime MGL1112MCS03T	1009	2636	1627	61.013
	11:03	11:15	Line Change				
	11:15	20:52	Prime MGL1112MCS04	1048	3814	2766	103.725
	20:52	20:56	Spectra NCC Lockup				
	20:56	0:00	Prime MGL1112MCS04	3831	4714	886	33.225

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS03BA which continued until 04:49 GMT. A line change was made an MCS03T was started at 05:25 GMT and continued until 11:03 GMT. At which time another line change was made on to MCS04 which continued throughout the rest of the day.

** Note: During MCS03BA the Seismic Air Compressor shut down for ~20 min and during MCS04 there was a SPECTRA NCC lock up which took ~4 min to get reset.

Tomorrow:

At the start of the day the vessel in Production on MCS04, a short line change will be made to MCS04T which will continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-22	<u>Sailed Km</u>
Prime	252.150
Infill	0.000
Reshoot	0.000
Total: 252.150	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-22
Recording	22:36
Line Change	0:28
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:12
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:09
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:35
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 76 57.337 N
Lon 165 22.884 W

Hdg 103 Deg
BSP 5.8 KTS

Wind SW 0-5 Kts
Seas 1 m
Depth 931 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	14:52	Prime MGL1112MCS04	4418	9010	4592	172.200
	14:52	15:01	Line change for Sub-Array Swap Prime				
	15:01	16:38	MGL1112MCS04A	9054	9471	417	15.638
	16:38	16:50	Line Change (Switching shooting on Time) Prime				
	16:50	20:24	MGL1112MCS04B	1001	1667	666	37.575
	20:24	20:59	Power Down for PSO Sighting Prime				
	20:59	22:40	MGL1112MCS04B	1831	2304	473	17.738
	22:40	23:08	Line Change Prime				
	23:08	0:00	MGL1112MCS04T	1001	1241	240	9.000

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The Vessel started the day in production on MCS04 which continued until 14:52 GMT. A line change was made an MCS04A due to the changing from Sub-Array 3 to 4 because of Source Element issues. MCS04A was started at 15:01 GMT during line MGS04A there was issues with Spectra doing any real time positioning because of all three GPS systems not receiving differential corrections. At 16:38 GMT Line MCS04A was stopped and a line change was made to MCS04B shooting on time (12.8 sec). MCS04B started at 16:50 GMT and was completed at 22:40 GMT without any issues shooting on time. A line change as made to MCS04T which started at 23:08 GMT which continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel in Production on MCS04T, a line change will be made at ~04:00 GMT to line MCS05 which should continue throughout the rest of the day.

*** Note: at this time we are shooting on Time (12.8 sec) because we are receiving differential corrections to the GPS system because how far the north the vessel is.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-23	<u>Sailed Km</u>
Prime	231.750
Infill	0.000
Reshoot	0.000
Total: 231.750	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-23
Recording	23:11
Line Change	0:33
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:16
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:09
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 75 37 56.118 N
Lon 169 02 33.793 W

Hdg 222.8 Deg
BSP 5.9 KTS

Wind E 5-10 Kts
Seas 1 m
Depth 227 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	5:11	Prime MGL1112MCS04T		1242	2287	1045 39.188
5:11	5:44	Line Change				
5:44	5:47	Prime MGL1112MCS05		1117	1131	14 0.525
5:47	5:52	Line Change (Spectra Lockup)				
5:52	13:50	Prime MGL1112MCS05A		1155	3440	2285 85.688
13:50	13:56	Line Change (Switching shooting on Time)				
13:56	14:38	Prime MGL1112MCS05B		1001	1196	195 7.313
14:38	14:40	Line Change (Switching shooting on Distance)				
14:40	17:59	Prime MGL1112MCS05C		3700	4648	948 35.550
17:59	18:00	Line Change (Switching shooting on Time)				
18:00	21:27	Prime MGL1112MCS05D		1001	1973	972 36.450
21:27	21:29	Line Change (Switching shooting on Distance)				
21:29	0:00	Prime MGL1112MCS05E		5671	6392	721 27.038

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on MCS04T and at 05:11 GMT stated a line change. At 05:44 GMT MCS05 Started but due to a lock of Spectra this line was abort while Spectra was restarted. At 05:52 GMT MCS05A was started and when until 13:50 GMT when GPS corrections were lost and the line was ended to switch Spectra over to shooting on Time. At 13:56 GMT Line MCS05B started and ran until 14:38 GMT when GPS corrections were regained and Spectra was switched back to shooting on Distance. At 14:40 GMT Line MCS05C was started and rean until 17:59 GMT when again GPS corrections were lost and the line was ended to switch Spectra over to shooting on time. At 18:00 GMT Line MCS05D was started. Line MCS05D continued until 21:27 when again GPS Correction were regained and at 21:29 GMT Line MCS05E was started and continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel is in Production on MCS05E, a line change will be made at ~11:00 GMT to line MCS05T which should run until about 19:00 GM. At that time the vessel will make another short line change to MCS06 which should continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-24	<u>Sailed Km</u>
Prime	255.188
Infill	0.000
Reshoot	0.000
Total: 255.188	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-24
Recording	23:29
Line Change	0:31
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
CTD Cast	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 75 15 10.996 N
Lon 168 11 08.414 W

Hdg 049.7 Deg
BSP 6.0 KTS

Wind NE 5-10 Kts
Seas 1 m
Depth 227 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	10:15	Prime MGL1112MCS05E	6392	9330	2938	110.175
	10:15	10:31	Line Change				
	10:31	14:44	Prime MGL1112MCS05T	1049	2263	1214	45.525
	14:44	14:59	Line Change				
	14:59	0:00	Prime MGL1112MCS06	1055	3708	2653	99.488

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS05E which concluded at 10:15 GMT. A short line was made to MCS05T which started at 10:31 GMT and concluded at 14:44 GMT. At which time another short line change was made to MCS06 which started at 14:59 GMT and continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel is in Production on MCS06. MCS06 should run until about 20:00 GMT. At that time the vessel will make another short line change to MCS06T which should continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-25	<u>Sailed Km</u>
Prime	261.450
Infill	0.000
Reshoot	0.000
Total: 261.450	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-25
Recording	23:31
Line Change	0:27
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:02
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	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 : 76 04 41.185 N
Lon: 161 29 08.115 W

Hdg: 235.2 Deg
BSP: 5.8 KTS

Wind: SE 0-5 Kts
Seas: < 1 m
Depth: 2124.8 m

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	13:42	Prime MGL1112MCS06	3709	7745	4036	151.350
	13:42	13:44	Line Change (Switching to Time)				
	13:44	18:54	Prime MGL1112MCS06A	1001	2548	1547	58.013
	18:54	19:07	Line Change				
	19:07	23:20	Prime MGL1112MCS06T	1001	2268	1267	47.513
	23:20	23:34	Line Change				
	23:34	0:00	Prime MGL1112MCS07	1068	1190	122	4.575

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS06 which concluded at 13:42 GMT, due to lose of GPS Correction. MCS06A was started shooting on Time at 13:44 GMT and concluded at 18:54 GMT. A short line change was made to MCS06T which started at 19:07 GMT and continued until 23:30. At which time another short line change was made to MCS07 which continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel is in Production on MCS07 which should continue throughout the rest of the day.

Best Regards

Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-26	<u>Sailed Km</u>
Prime	264.563
Infill	0.000
Reshoot	0.000
Total: 264.563	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-26
Recording	23:59
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:01
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	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 : 74 32 28.843 N
Lon: 168 36 11.580 W

Hdg: 220.1 Deg
BSP: 6.1 KTS

Wind: NW 5-10 Kts
Seas: 1 m
Depth: 197.6 m

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:31 Prime MGL1112MCS07	1191	1335	144	5.400
0:31	0:31 Line Change (Switching to Time)				
0:31	2:52 Prime MGL1112MCS07B	1001	1058	57	26.438
2:52	2:53 Line Change (Switching to Distance)				
2:53	0:00 Prime MGL1112MCS07C	2034	8240	6206	232.725

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS07 which concluded at 0:31 GMT, due to lose of GPS Correction. Line MCS07A was started shooting on Time at 00:31 GMT and concluded at 02:52 GMT. Line MCS07B was started at 02:52 GMT shooting on distance and continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel is in Production on MCS07, at ~03:45 GMT a short line change to MCS07T will be made. At ~07:45 another short line change to MCS08 will be made and should continue throughout the rest of the day.

Best Regards

Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-27	<u>Sailed Km</u>
Prime	276.938
Infill	0.000
Reshoot	0.000
Total: 276.938	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-27
Recording	23:28
Line Change	0:30
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
CTD Cast	0:00
Hydraulics	0:00
Source	0:02
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 : 75 02 16.254 N
Lon: 164 00 20.652 W

Hdg: 048 Deg
BSP: 6.1 KTS

Wind: NW 10 -15 Kts
Seas: 1 -2 m
Depth: 667.3 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	3:25	Prime MGL1112MCS07B	8241	9245	1004	37.650
3:25	3:41	Line Change				
3:41	4:52	Prime MGL1112MCS07T	1059	1399	340	37.050
4:52	4:54	Line Change (Switching Sub-Arrays)				
4:54	7:34	Prime MGL1112MCS07TA	1412	2193	781	29.288
7:34	7:48	Line Change				
7:48	0:00	Prime MGL1112MCS08	1052	5664	4612	172.950

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS07B which concluded at 03:25 GMT. At which time a line change was made to MCS07T which started at 03:41 GMT and went until 04:52 GMT which the line was ended to reconfigure the Spectra and the Source Control to use Sub-Array 3. Line MCS07TA was started at 04:52 GMT and continued until 07:34 GMT. Another line changed was made to Line MCS08 which was started at 07:48 GMT and continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel is in Production on MCS08, at ~12:00 GMT a line change to MCS08T1 will be made. At ~18:00 another short line change to MCS08T2 will be made and this line should continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-27	<u>Sailed Km</u>
Prime	252.638
Infill	0.000
Reshoot	0.000
Total:	252.638

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-27
Recording	23:28
Line Change	0:30
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
CTD Cast	0:00
Hydraulics	0:00
Source	0:02
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 : 75 02 16.254 N
Lon: 164 00 20.652 W

Hdg: 048 Deg
BSP: 6.1 KTS

Wind: NW 10 -15 Kts
Seas: 1 -2 m
Depth: 667.3 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	3:25	Prime MGL1112MCS07B	8241	9245	1004	37.650
	3:25	3:41	Line Change				
	3:41	4:52	Prime MGL1112MCS07T	1059	1399	340	12.750
	4:52	4:54	Line Change (Switching Sub-Arrays)				
	4:54	7:34	Prime MGL1112MCS07TA	1412	2193	781	29.288
	7:34	7:48	Line Change				
	7:48	0:00	Prime MGL1112MCS08	1052	5664	4612	172.950

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS07B which concluded at 03:25 GMT. At which time a line change was made to MCS07T which started at 03:41 GMT and went until 04:52 GMT which the line was ended to reconfigure the Spectra and the Source Control to use Sub-Array 3. Line MCS07TA was started at 04:52 GMT and continued until 07:34 GMT. Another line changed was made to Line MCS08 which was started at 07:48 GMT and continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel is in Production on MCS08, at ~12:00 GMT a line change to MCS08T1 will be made. At ~18:00 another short line change to MCS08T2 will be made and this line should continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-28	<u>Sailed Km</u>
Prime	251.325
Infill	0.000
Reshoot	0.000
Total: 251.325	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-28
Recording	23:01
Line Change	0:39
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:20
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	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 : 75 24 27.536 N
Lon: 159 00 24.955 W

Hdg: 266.4 Deg
BSP: 6.0 KTS

Wind: W 20-25 Kts
Seas: 1-3 m
Depth: 1342.6 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	1:55	Prime MGL1112MCS08	5665	6228	563	21.113
1:55	2:04	Spectra Lockup				
2:04	2:20	Prime MGL1112MCS08A	6274	6348	74	2.775
2:20	2:29	Spectra Lockup				
2:29	12:08	Prime MGL1112MCS08B	6395	9187	2792	104.700
12:08	12:20	Line Change				
12:20	16:21	Prime MGL1112MCS08T1	1063	2238	1175	44.063
16:21	16:23	Line Change (Switching to Time)				
16:23	17:08	Prime MGL1112MCS08T1A	1001	1224	223	8.363
17:08	17:24	Line Change				
17:24	21:21	Prime MGL1112MCS08T2	1064	2203	1139	42.713
21:21	21:32	Line Change				
21:32	0:00	Prime MGL1112MCS09T	1001	1737	736	27.600

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS08 which was finally concluded at 12:08 GMT as Line MGC08B because of two different spectra lockup. A line change was made to MCS08T1 which started at 12:20 GMT and went until 16:21 GMT which the line was ended to switch to time because of loss of GPS Correction. Line MCS08T1A was started at 16:23 GMT and continued until 17:08 GMT. Another line change was made to Line MCS08T2 which was started at 17:24 GMT and continued until 21:21 GMT. Another line change was made to Line MCS09T, which started at 21:32 and continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel is in Production on Line MCS9T, at ~00:35 GMT a line change to Line MCS09 should continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-29	<u>Sailed Km</u>
Prime	257.325
Infill	0.000
Reshoot	0.000
Total: 257.325	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-29
Recording	23:42
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:04
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:14
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 : 74 00 57.025 N
Lon: 166 02 42.383 W

Hdg: 234.5 Deg
BSP: 5.2 KTS

Wind: NW 25-30 Kts
Seas: 2-4 m
Depth: 176.2 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM	
	0:00	0:39	Prime MGL1112MCS09T1	1737	1933	196	7.350
	0:39	0:39	Line Change				
	0:39	5:43	Prime MGL1112MCS09	1006	2482	1476	55.350
	5:43	5:44	Changing to Sub Array 4				
	5:44	5:45	Prime MGL1112MCS09A	2487	2494	7	0.263
	5:45	5:49	Spectra Lockup				
	5:49	10:25	Prime MGL1112MCS09B	2512	3841	1329	49.838
	10:25	10:27	Changing to Sub Array 3				
	10:27	18:57	Prime MGL1112MCS09C	3851	6324	2473	92.738
	18:57	19:00	Changing to Sub Array 4				
	19:00	19:33	Prime MGL1112MCS09D	6338	6493	155	5.813
	19:33	19:39	Changing to Sub Array 3				
	19:39	21:28	Prime MGL1112MCS09E	6500	7036	536	20.100
	21:28	21:30	Changing to Sub Array 4				
	21:30	0:00	Prime MGL1112MCS09F	7045	7735	690	25.875

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS09T1 which was concluded at 00:39 GMT. A line change was made to MCS09 which started at 12:20. During the day Line MCS09 was stopped and started a number of times. Once for a Spectra Lockup and 5 other times to change the Source Sub-Array that was being used due to element failures. At the end of the day the vessel was still on Line MCS09E.

Tomorrow:

At the start of the day the vessel is in Production on Line MCSE, at ~05:00 GMT a line change to Line MCS10T and at ~10:00 GMT as another line change will be made to MCS10 should continue throughout the rest of the day.

Best Regards

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-09-30	<u>Sailed Km</u>
Prime	247.988
Infill	0.000
Reshoot	0.000
Total: 247.988	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-09-30
Recording	23:10
Line Change	0:48
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
CTD Cast	0:00
Hydraulics	0:00
Source	0:02
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 : 74 15 10.623 N
Lon: 162 33 20.784 W

Hdg: 050.7 Deg
BSP: 5.7 KTS

Wind: S 5-10 Kts
Seas: 1-2 m
Depth: 1115.3 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	5:22 Prime MGL1112MCS09F		7736	9191	1455 54.563
5:22	5:56 Line Change				
5:56	9:34 Prime MGL1112MCS09T	1060		2190	1130 42.375
9:34	9:48 Line Change				
9:48	18:17 Prime MGL1112MCS10	1047		3438	2391 89.663
18:17	18:19 Changing to Sub Array 3				
18:19	0:00 Prime MGL1112MCS10A	3449		5086	1637 61.388

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS09F which was concluded at 05:22 GMT. A line change was made to MCS09T which started at 05:56 GMT and concluded at 09:34 GMT. Another line changed was made to Line MCS10 which started at 09:48 GMT. At 18:17 GMT Line MCS10 was ended and Line MCS10A was started due to failures on Sub-Array 4 and switching to Sub-Array 3. Line MCS10A continued throughout the rest of the day.

Tomorrow:

At the start of the day the vessel is in Production on Line MCS10A. At ~14:00 GMT a line change to Line MCS10T1 and at ~16:00 GMT as another line change will be made to MCS10T2 which should continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-01	<u>Sailed Km</u>
Prime	252.000
Infill	0.000
Reshoot	0.000
Total: 252.000	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-01
Recording	23:32
Line Change	0:24
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
CTD Cast	0:00
Hydraulics	0:00
Source	0:04
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 : 74 15 10.623 N
Lon: 162 33 20.784 W

Hdg: 050.7 Deg
BSP: 5.7 KTS

Wind: S 5-10 Kts
Seas: 1-2 m
Depth: 1115.3 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	4:38	Prime MGL1112MCS10A	5087	6440	1353	50.738
4:38	4:39	Changing to Sub Array 4				
4:39	9:50	Prime MGL1112MCS10B	6446	7896	1450	54.375
9:50	9:53	Changing to Sub Array 3				
9:53	14:06	Prime MGL1112MCS10C	7911	9155	1244	46.650
14:06	14:14	Line Change				
14:14	19:07	Prime MGL1112MCS10T1	1025	2459	1434	53.775
19:07	19:23	Line Change				
19:23	0:00	Prime MGL1112MCS10T2	1052	2291	1239	46.463

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS10A which was concluded at 04:38 GMT. This was done to change over to Sub-Array 4 and Line MCS10B was started at 04:39. This line MCS10B went until 09:50 GMT when it was ended to change back to Sub-Array 3. At 09:53 GMT line MCS10C was started and ran until 14:06. A short line change was made to Line MCS10T1 which started at 14:14 GMT. Line MCS10T1 ran until 19:07 GMT at which time another short line change was made and Line MCS10T2 was acquired throughout the rest of the day.

*** NOTE: At PI's request Line MCS10T2 was acquired at a 12 sec record length. Vessel will return to a 10 sec record length at the end of the line.

Tomorrow:

At the start of the day the vessel is in Production on Line MCS10T2. At ~00:45 GMT a line change to Line MCS11A and at ~6:00 GMT as another line change will be made to MCS11B which should continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-02	<u>Sailed Km</u>
Prime	239.400
Infill	0.000
Reshoot	0.000
Total: 239.400	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-02
Recording	22:57
Line Change	0:42
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:13
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:08
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 : 73 92 09.54 N
Lon: 163 38 21.89 W

Hdg: 223.7 Deg
BSP: 6.0 KTS

Wind: SW 10-15 Kts
Seas: 2-3 m
Depth: 107 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:42	Prime MGL1112MCS10T2	2292	2478	186	6.975
0:42	1:01	Line Change				
1:01	1:14	Prime MGL1112MCS11A	1065	1123	58	2.175
1:14	1:15	Line Change (Switching to Time)				
1:15	2:09	Prime MGL1112MCS11A1	1001	1271	270	10.125
2:09	2:13	Line Change (Switching to Sub-Array 4)				
2:13	4:05	Prime MGL1112MCS11A2	1001	1565	564	21.150
4:05	4:28	Line Change				
4:28	6:38	Prime MGL1112MCS11B	1001	1653	652	24.450
6:38	6:40	Line Change (Switching to Distance)				
6:40	7:35	Prime MGL1112MCS11B1	1692	1958	266	9.975
7:35	7:37	Line Change (Switching to Time)				
7:37	9:05	Prime MGL1112MCS11B2	1001	1442	441	16.538
9:05	9:08	Line Change (Switching to Distance)				
9:08	10:09	Prime MGL1112MCS11B3	2353	2596	243	9.113
10:09	10:12	Line Change (Switching to Time)				
10:12	10:27	Prime MGL1112MCS11B4	1001	1075	74	2.775
10:27	10:29	Line Change (Switching to Distance)				
10:29	14:58	Prime MGL1112MCS11B5	2671	3828	1157	43.388
14:58	15:02	Line Change (Switching to Sub-Array 3)				
15:02	0:00	Prime MGL1112MCS11B6	3840	6313	2473	92.738

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on Line MCS10T2 which was concluded at 00:42 GMT. A Line change was made to MCS10A which started at 01:01 GMT and Concluded at 02:13 GMT. At that time another line change to MCS11 was made which started at 04:28 GMT and continued throughout the day.

During Lines MCS10A and MCS11 the Navigation system was started and stopped a number of times due to a variety of issues with GPS Correction being intermittent and with Source Sub-Arrays Issues. The Time summary above will give you a breakdown of when these starts and stops happen.

Also during the day there was an intermittent problem with the Seismic Air Fisher valves either not bleeding off the excess air or bleeding off too much air. The Ship Engineers are investigating the issues.

Tomorrow:

At the start of the day the vessel is in Production on Line MCS11B6. At ~07:00 GMT a line change to Line MCS11C which should continue throughout the rest of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-03	<u>Sailed Km</u>
Prime	252.263
Infill	0.000
Reshoot	0.000
Total: 252.263	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-03
Recording	23:07
Line Change	0:51
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:02
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	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 : 71 56 44.490 N
Lon: 165 25 33.987 W

Hdg: 023.1 Deg
BSP: 5.9 KTS

Wind: E 10-15 Kts
Seas: 1 m
Depth: 37.4 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	5:58	Prime MGL1112MCS11B6	6314	8036	1722	64.575
5:58	5:59	Line Change				
5:59	7:52	Prime MGL1112MCS11C	1010	1541	531	19.913
7:52	7:54	Line Change (Switched to Shooting on Time)				
7:54	9:50	Prime MGL1112MCS11C1	1001	1582	581	21.788
9:50	10:03	Line Change				
10:03	21:52	Prime MGL1112MCS11D	1046	4504	3458	129.675
21:52	22:29	Line Change				
22:29	0:00	Prime MGL1112MCS12	985	1420	435	16.313

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on Line MCS11B6 which was concluded at 05:58 GMT. A Line change was made to MCS11C which started at 05:59 GMT and Concluded at 07:52 GMT. At which that time another line change to MCS11C1 was made which started at 07:54 GMT and concluded at 09:50 GMT. Another line change was made at this time to Line MCS11D which started at 10:03 GMT and ran until 21:52. At that time another line change was made to MCS12 which started at 22:59 GMT and continued throughout the rest of the day.

The intermittent problem with the Seismic Air Fisher valves continued throughout the day

Tomorrow:

At the start of the day the vessel is in Production on Line MCS12. It is expected that the vessel will complete Line MCS12 in addition to MCS13, MCS14, MCS15, MCS16, and be in production on MCS17 at the end of the day.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-04	<u>Sailed Km</u>
Prime	246.563
Infill	0.000
Reshoot	0.000
Total: 246.563	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-04
Recording	22:48
Line Change	1:12
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
CTD Cast	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 : 72 10 00.004 N
Lon: 166 06 22.999 W

Hdg: 231.6 Deg
BSP: 5.9 KTS

Wind: SE 10-15 Kts
Seas: 1 m
Depth: 43.1 m

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	2:51	Prime MGL1112MCS12	1421	2232	811	30.413
2:51	3:06	Line Change				
3:06	7:13	Prime MGL1112MCS13	1067	2273	1206	45.225
7:13	7:22	Line Change				
7:22	10:36	Prime MGL1112MCS14	1032	1980	948	35.550
10:36	10:58	Line Change				
10:58	17:15	Prime MGL1112MCS15	1092	2919	1827	68.513
17:15	17:41	Line Change				
17:41	0:00	Prime MGL1112MCS16	1139	2922	1783	66.863

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel had a good day of production. It started the day finishing up Line MCS12. Also during the day the vessel concluded MCS lines 13, 14, & 15 and at the end of the day was in production on MCS line 16.

Tomorrow:

At the start of the day the vessel is in Production on Line MCS16. It is expected that the vessel will complete Line MCS16 at ~ 01:30 GMT at which time the vessel will make a line change to MCS17 which will be the last line of the mission. MCS17 should conclude at ~05:00 GMT and the retrieval of all towed equipment will begin. Once all towed equipment is onboard the vessel will begin transiting to Dutch Harbor, Alaska.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-05	<u>Sailed Km</u>
Prime	43.000
Infill	0.000
Reshoot	0.000
Total:	43.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-05
Recording	04:24
Line Change	0:17
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
CTD Cast	0:00
Hydraulics	0:00
Source	0:18
Streamer	2:07
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	16:54
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat: 69 16.963 N
Long: 167 38.488 W

BSP: 10.78 KTS
HDG: 184.24 DEG

DPT: 53 M
Seas: < 1m
Wind: S @ 10—15 KTS

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	1:10	Prime MGL1112MCS16	2923	3266	343	12.863
1:10	1:27	Line Change				
1:27	4:41	Prime MGL1112MCS17	1058	1995	937	35.138
4:41	4:59	Picking up Source				
4:59	7:06	Picking up Streamer				
7:06	0:00	Transit to Dutch Harbor				

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day in production on MCS16 and at 01:10 GMT is concluded. At that time a line change was started and at 01:27 GMT Line MCS17 was started and ran until 04:41 GMT. At that time all MCS lines were completed and the vessel began recovery of all towed equipment.

At 07:06 GMT all towed equipment was onboard and the vessel got underway for Dutch Harbor, Alaska which the transit continued throughout the rest of the day.

Tomorrow:

The Vessel will spend the entire day in Transit to Dutch Harbor, Alaska. Both Science Tech's and Science party will continue to monitor the underway system, while doing maintenance on other science equipment and systems.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-06	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-06
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	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	24:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 65.00.025N
Lon 168.23.595W

BSP 10.35 KTS
Hdg 178.87 DEG
Dpt 47m

Seas 1-2m
Wind W @ 5-10 KTS

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	24:00	Transit to Dutch Harbor

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day underway for Dutch Harbor, Alaska and the transit continued throughout the rest of the day.

Tomorrow:

The Vessel will spend the entire day in Transit to Dutch Harbor, Alaska. Both Science Tech's and Science party will continue to monitor the underway system, while doing maintenance on other science equipment and systems.

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

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

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-07
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	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	24:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 60 43.000 N
Lon 168 26.796 W

BSP 10.6 KTS
Hdg 180.5 DEG
Dpt 27.5m

Seas 1-2m
Wind NNW @ 5-10 KTS

Cruise : MGL1112

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert Steinhaus – Chief Science Officer (LDEO)

Coakley - Chukchi

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	24:00	Transit to Dutch Harbor

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day underway for Dutch Harbor, Alaska and the transit continued throughout the rest of the day.

Tomorrow:

The Vessel will spend the entire day in Transit to Dutch Harbor, Alaska. Both Science Tech's and Science party will continue to monitor the underway system, while doing maintenance on other science equipment and systems.

Best Regards

Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-08	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-08
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
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	24:00
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 26.600N
Lon 167 13.900 W

BSP 10 KTS
Hdg 167 DEG
Dpt 100 m

Seas 2-4m
Wind E @ 25-30 KTS

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	24:00	Transit to Dutch Harbor

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day underway for Dutch Harbor, Alaska and the transit continued throughout the rest of the day.

Tomorrow:

The Vessel start the day in Transit to Dutch Harbor, Alaska ant at ~17:00 GMT the vessel will arrive in Port. Both Science Tech's and Science party will continue to monitor the underway system, while doing maintenance on other science equipment and systems. On arrival in port we will secure all the underway systems and complete a gravity tie before finishing out the finial data close out for MGL1112

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-09	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-09
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
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	17:41
Ship Repair	0:00
Maneuvering	0:00
Port Call	6:19
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 53 54.1777 N
Lon 166 31.652 W

BSP 0 KTS
Hdg 222 DEG
Dpt In Port

Seas CALM
Wind NE @ 15-20 KTS

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
0:00	17:41	Transit to Dutch Harbor
17:41	0:00	Port Call Dutch Harbor

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day underway for Dutch Harbor, Alaska and the transit continued until 17:41 GMT when the vessel arrived along side City Dock #3 in Dutch Harbor, Alaska. At that time the vessel began Demobilization of MGL1112

Tomorrow:

The Vessel will be along side City Dock #3 in Dutch Harbor, Alaska Demobilizing for MGL1112

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-09	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-09
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
CTD Cast	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:

Lat 53 54.1777 N
Lon 166 31.652 W

BSP 0 KTS
Hdg 222 DEG
Dpt In Port

Seas CALM
Wind NE @ 15-20 KTS

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
00:00	24:00 Port Call Dutch Harbor

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

Steinhaus, McKiernan, Martello, Wooley, Tatro, Eaton, West, Felix, Spoto

Science Party on board:

Cain, Coakley, Decker, Dove, Gray, Hegewald, Ilhan, Johnson, Kim, Monsen, Scannell, Swank, Aveoganna

Marine Mammal Observer Staff on board:

Cameron, Ellis, Piercy, Harrison, Ingram

5. Daily Summary:

The vessel started the day be along side City Dock #3 in Dutch Harbor, Alaska Demobilizing for MGL1112. This operation continued throughout the day.

Tomorrow:

The Vessel will be along side City Dock #3 in Dutch Harbor, Alaska Demobilizing for MGL1112

Best Regards
Robert J Steinhaus

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-10-09	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-10-09
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
CTD Cast	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:

Lat 53 54.1777 N
Lon 166 31.652 W

BSP 0 KTS
Hdg 222 DEG
Dpt In Port

Seas CALM
Wind NE @ 15-20 KTS

Cruise : MGL1112

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

Coakley - Chukchi
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
00:00	24:00 Port Call Dutch Harbor

4. Comments

Local vessel time is UTC-8 (AKDT).

Science Technical staff on board:

McKiernan, Eaton, Spoto

Science Party on board:

Coakley

Marine Mammal Observer Staff on board:

5. Daily Summary:

The vessel started the day be along side City Dock #3 in Dutch Harbor, Alaska Demobilizing for MGL1112. This operation continued throughout the day.

Tomorrow:

The Vessel will be along side City Dock #3 in Dutch Harbor, Alaska Demobilizing for MGL1112

Best Regards
Robert J Steinhaus