

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-06</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-06</b>
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	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: 53 54.16782 N  
166 31.65397 W

HDG: 222 Deg  
Speed 0 kts

Wind: Light airs  
Seas Calm

**Cruise : MGL1111**

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

**USGS 2**

**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-24:00 Port call.

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis

**Science Party on board:**

Donna Shillington departed.

**Marine Mammal Observer Staff on board:**

None

**5. Daily Summary:**

Vessels started the day in Port in Dutch Harbor, Alaska. Source maintenance and reconfig in progress. Installation of TSG completed. Setup and configuration of CTD in progress.

Tomorrow:

The Vessel will start the day in port in Dutch Harbor, Alaska. Readiness of science equipment and gear for USGS Bering Sea cruise will continue. Science party, OBS techs, and PSO personnel arriving. Vessel will be shifting to the fueling dock.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-07</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-07</b>
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	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: 53 54.1767 N  
166 31.6531 W

HDG: 222 Deg  
Speed 0 kts

Wind: Light airs  
Seas Calm

**Cruise : MGL1111**

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

**USGS 2**

**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-24:00 Port call.

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Vessels started the day at the light cargo dock in Dutch Harbor, Alaska. Vessel shifted to fuel dock at 0730 (Alaska time) for fueling. Vessel will remain at fuel dock until departure. Setup and configuration of CTD in progress. Gun maintenance and configuration in progress.

Tomorrow:

The Vessel will start the day in port in Dutch Harbor, Alaska. Readiness of science equipment and gear for USGS Bering Sea cruise will continue. ETD for Cruise 1111 is 10:00 am (Alaska).

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-08</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-07</b>
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	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	3:34
Ship Repair	0:00
Maneuvering	0:00
Port Call	20:26
Other	0:00
Total:	24.00

**UTC Midnight (24:00) Position / Heading:**

POS: 54 08.1456 N  
167 11.7148 W

HDG: 284 Deg  
Speed 9.8 kts

Wind: 26 knots  
Seas 1-2 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-20:26 Port call.  
20:26-24:00 Transit

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Vessel departed fuel dock for project area at 20:26 UTC. Setup and configuration of CTD finalizing.. Gun maintenance finalizing. ETA for CTD test drop 18:00 UTC August 09.

Tomorrow:

CTD test cast at approximately 18:00 UTC. Upon completion of test, vessel will resume transit to streamer deployment area. Readiness of science equipment and gear for USGS Bering Sea cruise will continue.

Best Regards  
David Martinson

**Cruise : MGL1111**

To: Office of Marine Operations  
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Fm: David Martinson – Chief Science Officer (LDEO)

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-09</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-09</b>
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	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: 55 04.6356 N  
174 10.9848 W

HDG: 282 Deg  
Speed 10.2 kts

Wind: 15 knots  
Seas 1 m

**Cruise : MGL1111**

To: Office of Marine Operations  
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Fm: David Martinson – Chief Science Officer (LDEO)

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-24:00 Transit

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Vessel transited to site for test CTD cast. Hardware and mechanical problems dictating aborting test cast attempt until later. Continued transiting to streamer deployment area. Will attempt test cast just prior to deploying streamer. ETA to deployment area 06:00 August 10, 2011.

Tomorrow:

CTD test cast at approximately 07:00 UTC. Upon completion of test, crew will begin streamer deployment.

Best Regards  
David Martinson



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**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-09</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-10</b>
Recording	0:00
Line Change	1:06
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	1:01
OBS Deployment	0:00
OBS Recovery	0:00
Hydraulics	0:00
Source	1:53
Streamer	10:55
Seismic Air Compressor	0:00
Mitigation/PAM	2:05
Transit	7:00
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 08.1457 N  
167 11.7149 W

HDG: 284 Deg  
Speed 9.8 kts

Wind: 26.5 knots  
Seas 1 m

**Cruise : MGL1111**

To: Office of Marine Operations  
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**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-07:00 Transit  
07:00-08:00 CTD test attempt  
08:00-18:55 Deploy streamer  
18:55-20:48 Deploy guns  
20:48-21:54 Turn towards line  
21:54-00:00 Waiting for fog to clear, and ramp up

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Vessel transited to streamer deployment and new CTD test cast site.. Hardware and mechanical problems again dictated aborting test cast attempt until after MCS acquisition. Deployed streamer. Deployed guns. Deployed magnetometer and PAM. Will start acquisition of MGL1111MCS01 at 00:00 UTC.

Tomorrow:  
Continue acquisition of line MGL1111MCS01.

Best Regards  
David Martinson

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To: Office of Marine Operations  
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Fm: David Martinson – Chief Science Officer (LDEO)

**USGS 2**  
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**1. PRODUCTION SUMMARY**

<b>2011-08-11</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	200.850	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	200.850	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-11</b>
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: 56 16.9012 N  
179 22.0214 W

HDG: 301 Deg  
Speed 4.5 kts

Wind: 18 knots  
Seas 3-4 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Acquired line MGL1111MCS01. Acquisition of line MGL1111MCS01A will continue into tomorrow. PAM streamer became entangled in gun string 4 necessitating retrieval of gun strings 3 & 4. Acquisition continued while PAM streamer and gun string 4 were disentangled.

Tomorrow:

Complete acquisition of line MGL1111MCS01A. Acquire MGL1111MCS02 and perform gun maintenance at end of line. Begin Acquisition of MGL1111MCS03.

Best Regards  
David Martinson

**Cruise : MGL1111**

To: Office of Marine Operations  
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**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-12</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	132.100	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	200.850	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-12</b>
Recording	21:18
Line Change	1:42
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	1:00
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: 57 05.1111 N  
178 54.6273 E

HDG: 212 Deg  
Speed 4.7 kts

Wind: 24 knots  
Seas 1-2 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-17:58 Recording  
17:59-18:59 Source maintenance  
19:00-20:42 Line change  
20:43-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Completed acquisition of line MGL1111MCS01A. Acquired MGL1111MCS02. Extended line change to fix air leak on string 3 and failed jumpers on string 2. PAM streamer was re-weighted and redeployed. On line MGL1111MCS03.

Tomorrow:

Complete acquisition of line MGL1111MCS03 and perform gun maintenance at end of line. Begin Acquisition of MGL1111MCS04.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-13</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	146.450	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	146.450	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-13</b>
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
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: 56 58.0571 N  
177 21.0712 E

HDG: 12.5 Deg  
Speed 4.98 kts

Wind: 12 knots  
Seas 1 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-14:45 Recording  
14:46-15:58 Line change  
15:59-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Completed acquisition of line MGL1111MCS03. Acquired MGL1111MCS04. On line change to MGL1111TRN05.

Tomorrow:

Acquire line MGL1111TRN05 and perform gun maintenance during line. Begin Acquisition of MGL1111MCS05.

Best Regards  
David Martinson



**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-14</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	197.450	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	197.450	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-14</b>
Recording	22:47
Line Change	1:13
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: 56 50.5932 N  
175 07.9770 E

HDG: 266 Deg  
Speed 5.01 kts

Wind: 2 knots  
Seas 1 m

**Cruise : MGL1111**

To: Office of Marine Operations  
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**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-00:26 Recording  
00:27-00:50 Line change  
00:51-02:38 Recording  
02:39-03:30 Line change  
03:31-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Acquired MGL1111TRN05. Performed gun maintenance on string 4. Front 360 cluster was damaged beyond our ability to immediately repair. Cluster was replaced with a vertical 220 cluster. Acquiring line MGL1111MCS05.

Tomorrow:

Complete acquisition of line MGL1111MCS05. Perform gun maintenance on string 1 during line change. Begin Acquisition of MGL1111MCS06.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-15</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	199.000	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	199.000	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-15</b>
Recording	22:43
Line Change	1:17
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
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: 57 47.3933 N  
176 05.0273 E

HDG: 37.8 Deg  
Speed 4.92 kts

Wind: 8 knots  
Seas 1 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-04:11 Recording  
04:12-06:29 Line change  
06:30-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Completed acquisition of MGL1111MCS05. Performed gun maintenance on string 1. String 1 running just a single 360 at the front due to damaged cluster hardware. Acquiring line MGL1111MCS07.

Tomorrow:

Complete acquisition of line MGL1111MCS07. Perform gun maintenance on string 2 & 4 during line change. Begin Acquisition of MGL1111MCS08.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-16</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	208.850	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	208.850	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-16</b>
Recording	23:43
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
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: 58 29.4832 N  
177 02.1706 E

HDG: 226 Deg  
Speed 4.41 kts

Wind: 21 knots  
Seas 1-2 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-16:10 Recording  
16:11-16:28 Line change  
16:29-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Completed acquisition of MGL1111MCS07. Performed gun maintenance on string 2 & 4. Gun maintenance performed on line change and during the start of MGL1111MCS08. Line started with reduced volume with PIs approval. Acquiring line MGL1111MCS08.

Tomorrow:

Complete acquisition of line MGL1111MCS08. Perform gun maintenance on string 2, 3 & 4 during line change and at the start of MGL1111MCS09. Begin Acquisition of MGL1111MCS09.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-17</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	203.600	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	203.600	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-17</b>
Recording	23:58
Line Change	0:02
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 25.2755 N  
176 48.5663 E

HDG: 118 Deg  
Speed 4.3 kts

Wind: 17 knots  
Seas 2-3 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-13:37 Recording  
13:38-13:39 Line change  
13:29-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Completed acquisition of MGL1111MCS08. Performed gun maintenance on string 2, 3 & 4. Gun maintenance performed on line change and during the start of MGL1111MCS09. Line started with reduced volume with PIs approval. Acquiring line MGL1111MCS09.

Tomorrow:

Complete acquisition of line MGL1111MCS09. Acquire MGL1111MCS09A. Begin acquisition of line MGL1111MCS10.

Best Regards  
David Martinson



**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-18</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	193.900	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	193.900	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-18</b>
Recording	23:34
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	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: 57 09.5756 N  
178 03.3663 E

HDG: 307 Deg  
Speed 4.6 kts

Wind: 17 knots  
Seas 2-3 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-07:00 Recording  
07:01-07:03 Line change  
07:04-16:26 Recording  
16:27-16:50 Line change  
16:51-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Completed acquisition of MGL1111MCS09. Acquired MGL1111MCS09A. Acquiring line MGL1111MCS10.

Tomorrow:

Complete acquisition of line MGL1111MCS10. Acquire MGL1111MCS11.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-19</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	192.850	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	192.850	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-19</b>
Recording	23:10
Line Change	0:50
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: 57 01.6416 N  
176 13.7877 E

HDG: 174 Deg  
Speed 4.4 kts

Wind: 7 knots  
Seas 2-3 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-01:59 Recording  
02:00-02:29 Line change  
02:30-07:35 Recording  
07:36-07:57 Line change  
07:58-23:45 Recording  
23:46-24:00 Line change

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Completed acquisition of MGL1111MCS10. Acquired MGL1111TRN11. Acquired line MGL1111MCS11.

Tomorrow:

Acquire line MGL1111MCS12. Begin acquisition of MGL1111MCS13.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-20</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	199.500	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	199.500	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-20</b>
Recording	23:27
Line Change	0:33
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: 57 09.5218 N  
177 51.5391 E

HDG: 186 Deg  
Speed 5.0 kts

Wind: 12 knots  
Seas 2-3 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-00:30 Line change  
00:31-02:41 Recording  
02:42-02:44 Line change  
02:45-16:25 Recording  
16:26-16:26 Line change  
16:27-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, Mckiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Acquired MGL1111TRN12. Acquired MGL1111MCS12. Begin acquisition of line MGL1111MCS13.

Tomorrow:

Complete acquisition of line MGL1111MCS13. Retrieve guns and streamer. Transit to first OBS drop and begin OBS deployment.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-21</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	17.750	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	17.750	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-21</b>
Recording	3:23
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	12:37
OBS Recovery	0:00
Hydraulics	0:00
Source	0:50
Streamer	4:56
Seismic Air Compressor	0:00
Mitigation/PAM	0:08
Transit	2:06
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

**UTC Midnight (24:00) Position / Heading:**

POS: 57 36.3205 N  
176 14.4839 E

HDG: 296 Deg  
Speed 9.6 kts

Wind: 29 knots  
Seas 2-3 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-03:23 Recording  
03:24-03:32 Recover PAM  
03:33-04:23 Recover source  
04:24-09:19 Recover streamer  
09:20-11:22 Transit to OBS drop zone  
11:23-24:00 OBS deployments

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Completed acquisition of lineMGL1111MCS13. Acquired MGL1111MCS12. Recovered magnetometer, recovered PAM, recovered source, and recovered streamer. Reconfigured all four gun strings with a 360 cluster again. Transited to start of OBS deployment site. Deploy OBS 17, 16, 15, 14, 13, 12, 11, 10, 9, and 8.

Tomorrow:

Deploy OBS 7. CTD cast. Deploy OBS 6 – 1. Deploy source and begin MGL1111OBS01.

Best Regards  
David Martinson



**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-22</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-22</b>
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	14:12
OBS Recovery	0:00
CTD Cast	3:23
Hydraulics	0:00
Source	6:25
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: 56 21.4432 N  
174 08.1089 E

HDG: 38.5 Deg  
Speed 4.5 kts

Wind: 20 knots  
Seas 2-3 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-02:36 OBS deployment  
02:37-06:00 CTD cast  
06:01-16:47 OBS deployment  
16:48-24:00 OBS source

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

CTD cast. Deploy OBS 6 - 1. Deploy source, troubleshoot communication problems on string 1.

Tomorrow:  
Begin acquisition of MGL1111OBS01.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-23</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	120.300	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	120.300	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-23</b>
Recording	13:40
Line Change	0:00
Weather	6:49
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	3:31
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: 56 49.0012 N  
175 19.2884 E

HDG: 185.9 Deg  
Speed 4.5 kts

Wind: 40 knots  
Seas 3-4 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-01:55 Source deployment  
01:56-15:36 Recording  
15:37-17:04 Source recovery  
17:05-23:53 Weather standby  
23:54-24:00 Source recovery (remaining gun string 1)

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Deploy source, troubleshoot communication problems on string 1. Begin acquisition of MGL1111OBS01. Line ended early d/t weather. Recovered gun strings 1, 2, & 3. Too dangerous to recover string 4 until approximately 5 hours later. Standing by for weather.

Tomorrow:

Deploy source, and resume acquisition of MGL1111OBS01.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-24</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	117.600	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	117.600	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-24</b>
Recording	14:17
Line Change	1:08
Weather	4:43
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	3:52
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: 58 00.4185 N  
176 45.2567 E

HDG: 225 Deg  
Speed 4.5 kts

Wind: 6.5 knots  
Seas 1-2 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-04:43 Weather  
04:44-08:36 Deploy source  
08:37-22:51 Recording  
22:52-24:00 Line change

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Standby for weather. Redeploy source and begin acquisition of MGL1111OBS01B.

Tomorrow:

Acquire MGL1111OBS02A. Begin acquisition of MGL1111OBS02.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-25</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	182.250	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	182.250	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-25</b>
Recording	23:42
Line Change	0:18
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:**

POS: 57 35.2188 N  
177 19.1230 E

HDG: 104 Deg  
Speed 4.1 kts

Wind: 18.7 knots  
Seas 2-3 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-00:14 Line change  
00:15-11:12 Recording  
11:13-11:17 Line change  
11:18-24:00 Recording

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Complete acquisition of MGL1111OBS01B. Acquire MGL1111OBS02A. Begin acquisition of MGL1111OBS02.

Tomorrow:

Complete acquisition of MGL1111OBS02. Begin recovery of OBS units. CTD cast.

Best Regards  
David Martinson



**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-26</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	126.600	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	126.600	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-26</b>
Recording	15:59
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	5:01
CTD Cast	0:00
Hydraulics	0:00
Source	1:24
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	1:36
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

**UTC Midnight (24:00) Position / Heading:**

POS: 57 04.1575 N  
177 51.3669 E

HDG: 237 Deg  
Speed 0.3 kts

Wind: 5.3 knots  
Seas 0-1 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-15:59 Recording  
16:00-17:24 Recover guns  
17:24-19:00 Transit to OBS 17 recovery site  
19:01-24:00 OBS recovery operations

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Complete acquisition of MGL1111OBS02. Transit to OBS17 recovery zone. Begin OBS recovery operations. Recover OBS17 and OBS16. During rise time for OBS17, performed a test cast with the Seacat CTD. During rise time for OBS16, performed another CTD cast with the Seacat (target depth 100m).

Tomorrow:

Continue recovery of OBS units. CTD cast. Repair and maintenance on gun strings.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-27</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-27</b>
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	21:00
CTD Cast	3:00
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: 57 32.201 N  
177 28.104 E

HDG: 297 Deg  
Speed 11 kts

Wind: 17.3 knots  
Seas 2-3 m

**Cruise : MGL1111**

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

**USGS 2**

**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-24:00 OBS recovery operations and CTD casts

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Recover OBS15 (Seacat CTD cast 003 during OBS rise time). Recover OBS14 (Seacat CTD cast 004 during OBS rise time). Recover OBS13 (Seacat CTD cast 005 during OBS rise time). Recover OBS12 (Seacat CTD cast 006 during OBS rise time). CTD cast 002 (rosette). Recover OBS11 (Seacat CTD cast 007). Recover OBS10 (Seacat CTD cast 008). Recover OBS09.

Tomorrow:

Continue recovery of OBS units. CTD cast. Repair and maintenance on gun strings. Preparation for streamer deployment.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-28</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-28</b>
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	24:00
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: 57 05.525 N  
175 14.186 E

HDG: 343 Deg  
Speed 2 kts

Wind: 17.9 knots  
Seas 2-3 m

**Cruise : MGL1111**

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

**USGS 2**

**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-24:00 OBS recovery operations

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Recover OBS08 – OBS03.

Tomorrow:

Continue recovery of OBS units. Recovery slowed down by weather. Magnetometer calibration. CTD cast. Transit to deployment area for final MCS acquisition.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-29</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-29</b>
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	6:35
CTD Cast	3:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	12:03
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	2:18 Mag Cal
Total:	24.00

**UTC Midnight (24:00) Position / Heading:**

POS: 55 24.0029 N  
177 27.0875 E

HDG: 292 Deg  
Speed 0 kts

Wind: 12.6 knots  
Seas 1-2 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-06:35 OBS recovery operations  
06:36-09:00 Transit to Magnetometer bias calc location  
09:01-11:19 Magnetometer bias calculation figure eight  
11:20-21:00 Transit to CTD cast #3 site  
21:00-24:00 CTD cast #3

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Complete recovery of OBS units. Complete Magnetometer bias calculation. Begin CTD cast #3.

Tomorrow:

Complete CTD cast #3 and complete CTD cast #4. Deploy streamer and guns. Begin acquisition of MGL1111MCS14.

Best Regards  
David Martinson



**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-30</b>	<u>Sailed Km</u>	<u>CMP KM</u>
Prime	48.550	0.000
Infill	0.000	0.000
Reshoot	0.000	0.000
Total:	48.550	0.000

**2. STATISTICAL ANALYSIS (DECIMAL HOURS)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-30</b>
Recording	5:37
Line Change	1:31
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	6:35
CTD Cast	2:52
Hydraulics	0:00
Source	2:48
Streamer	1:53
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	2:44
Port Call	0:00
Other	0:00
Total:	24.00

**UTC Midnight (24:00) Position / Heading:**

POS: 55 33.5418 N  
178 18.1628 E

HDG: 48.3 Deg  
Speed 4.4 kts

Wind: 12.6 knots  
Seas 1-2 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-00:27 CTD #3 cast recovery completed  
00:28-02:53 Transit to CTD cast #4 location  
02:54-03:51 CTD #4 cast  
03:52-11:15 Streamer deployment  
11:16-14:00 Transit and maneuvering for line  
14:01-15:49 Deploy source  
15:50-17:21 Line change  
17:22-22:59 Recording  
23:00-24:00 Recover source

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Complete CTD cast #3. Complete CTD cast #4. Deploy streamer. Deploy source. Acquire MGL1111MCS14. Complete Sonobuoy launch. Complete 29 XBT drops. Begin recovery of source.

Tomorrow:

Complete recovery of source. Recover streamer. Begin transit to Dutch Harbor. Begin data closeout.

Best Regards  
David Martinson

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**1. PRODUCTION SUMMARY**

<b>2011-08-31</b>	<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)**

<b><u>Time Activity Analysis</u></b>	<b>2011-08-31</b>
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	0:29
Streamer	6:18
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	17:15
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 08.4152 N  
176 11.3862 W

HDG: 105 Deg  
Speed 11.4 kts

Wind: 28.6 knots  
Seas 3-4 m

**Cruise : MGL1111**

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

**USGS 2**  
**R/V Marcus G. Langseth**

**3. TIME SUMMARY**

00:00-00:29 Source recovery  
00:30-06:48 Streamer recovery  
06:49-24:00 Transit

**4. Comments**

Local vessel time is UTC-8 (AKDT).

**Science Technical staff on board:**

Martinson, Meyer, McKiernan, Ng, Martello, Gutierrez, Martin, Francis, White, DalFerro, Wooley

**Science Party on board:**

Barth, Scholl, Wood, Sliter, O'Brien, Baldwin, Triezenberg, Lebedeva-Ivanova, Henderson, Hayse, Lemmond (WHOI OBS), DuBois (WHOI OBS)

**Marine Mammal Observer Staff on board:**

Cameron, Ellis, Piercy, Harrison, Ingram

**5. Daily Summary:**

Complete source recovery. Complete streamer recovery. Begin transit to Dutch Harbor. Begin data closeout.

Tomorrow:

Continue transit to Dutch Harbor. Continue data closeout.

Best Regards  
David Martinson