

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-11-22	<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>	2011-11-22
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 21° 18.94' N
Lon 157° 53.20' W

BSP 0.00 KTS
Hdg 252°
Dpt Tied up at the U of H dock, Sand Island Access Rd.

Seas 0 meters
Wind S @ 8.6 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
00:00 24:00	U of H dock

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Gutierrez, Martinson, Ng-Li, Steinhaus, Martello, Spoto, Tatro, Eaton, Groves

Science Party on board:

Aaron, Rapa, Anderson, Judge, Dubois, Lemmond, Eisenback,

Marine Mammal Observer Staff on board:

5. Daily Summary:

The Vessel is currently Pier Side U of H dock #45. The entire day was spent mobilizing for MGL1115. The majority of the day was shifting equipment and loading all the OBS equipment that will be used on this mission.

Tomorrow:

The vessel will start the day continuing the mobilizing for MGL1115. At ~ 17:00 GMT the vessel will shift over to Pier 30 in Honolulu to take on bunkers which should continue throughout the day. While the vessel is bunkering the vessel will still continue mobilization efforts for MGL1115.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-11-23	<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>	2011-11-23
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	0:27
Ship Repair	0:00
Maneuvering	0:00
Port Call	23:33
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 21° 18.68' N
Lon 157° 52.46' W

BSP 0.00 KTS
Hdg 125°
Dpt N/A

Seas 0 meters
Wind S @ 8.6 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
	0:00	17:02
	17:02	17:29
	17:29	0:00

Port Call U of H - Pier 45 Honolulu Hawaii
Transit to Pier 30 Fueling Dock
Fueling Operations

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Gutierrez, Martinson, Ng-Li, Steinhaus, Martello, Spoto, Tatro, Eaton, Groves

Science Party on board:

Aaron, Rapa, Anderson, Judge, Dubois, Lemmond, Eisenback,

Marine Mammal Observer Staff on board:

5. Daily Summary:

The Vessel started the day Pier Side U of H dock #45 mobilizing for MGL1115. At 17:02 GMT the vessel got underway for Pier 30 fueling dock. At 17:29 GMT the vessel was alongside Pier 30 to begin fueling operations, which continued throughout the day. While the vessel was bunkering the crew continue mobilization efforts for MGL1115.

Tomorrow:

The vessel will start the day continuing the mobilizing for MGL1115 while fueling operation continues. Once fueling operation are completed the vessel will return to U of H Dock #45 to continue mobilization efforts for MGL1115.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-11-24	<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>	2011-11-24
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	0:50
Ship Repair	0:00
Maneuvering	0:00
Port Call	23:10
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 21° 18.94' N
Lon 157° 53.20' W

BSP 0.00 KTS
Hdg 252°
Dpt N/A

Seas 0 meters
Wind SE @ 5-10 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
	0:00	2:35
	2:35	3:25
	3:25	0:00

Fueling Operations Pier 30
Transit to Pier 45 Fueling Dock
Port Call U of H - Pier 45 Honolulu Hawaii

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Gutierrez, Martinson, Ng-Li, Steinhaus, Martello, Spoto, Tatro, Eaton, Groves

Science Party on board:

Aaron, Rapa, Anderson, Judge, Dubois, Lemmond, Eisenback,

Marine Mammal Observer Staff on board:

5. Daily Summary:

The Vessel started the day Pier 30 mobilizing fueling operation for MGL1115. At 02:35 GMT Fueling was complete and the vessel got underway for Pier 45 fueling dock. At 03:25 GMT the vessel was secured alongside Pier 45 which continued throughout the day. The crew continue mobilization efforts for MGL1115 throughout the day.

Tomorrow:

The vessel will start the day continuing the mobilizing for MGL1115 at U of H Dock these efforts will continue throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-11-25	<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>	2011-11-25
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 21° 18.94' N
Lon 157° 53.20' W

BSP 0.00 KTS
Hdg 252°
Dpt N/A

Seas 0 meters
Wind SE @ 5-10 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	24:00	Port Call U of H - Pier 45 Honolulu Hawaii

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The Vessel is currently Pier Side U of H dock #45. The entire day was spent mobilizing for MGL1115.

Tomorrow:

The vessel will start the day continuing the mobilizing for MGL1115 at U of H Dock. This effort will continue until ~18:00 GMT when the vessel will get underway for the mission area. The transit will continue throughout the day.

**** Note: As soon as the vessel clears the sea buoy all under sonar and physical ocean sampling equipment will be brought online.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-11-26	<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>	2011-11-26
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	6:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	18:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 20° 36.00' N
Lon 157° 20.27' W

BSP 9.7 KTS
Hdg 144°
Dpt 3003 m

Seas 2-3 meters
Wind E @ 25-30 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00 18:00	Port Call U of H - Pier 45 Honolulu Hawaii
18:00 0:00	Transiting to Survey Area

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The Vessel started the day out Pier Side U of H dock #45 mobilizing for MGL1115. At 18:00 GMT the vessel got underway for survey area. The Transit continued throughout the rest of the day.

**** Note: Shortly after the vessel cleared the sea buoy all under sonar (EM122, SBP, and ADCP) and Physical Ocean sampling equipment (TSG, PC02, MicroSV, and Temp Probes) were brought online.

Tomorrow:

The vessel will start the day continuing the transit to MGL1115 which will continue throughout the day. At ~18:00 GMT the vessel will begin streamer handling operation in order to change out Streamer #3 tow leader (Lead-in). This operation should not require the vessel to slow down its transit as there will only be a small loop (~1km) of streamer in the water as the streamer is being transferred to the spares reel and back. The Tow Leader change out should take ~10 to 12 hours to complete.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-11-27	<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>	2011-11-27
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 17° 27' 44.57" N
Lon 154° 41' 06.046" W

BSP 9.6 KTS
Hdg 135°
Dpt 4945 m

Seas 3-4 meters
Wind E @ 30-35 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	24:00	Transiting to Survey Area

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The Vessel spent the whole day in Transit to MGL1115 survey area.

*** Note due to weather conditions no streamer handling took place.

Tomorrow:

The vessel will spent the entire day transiting to MGL1115 survey area

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-11-28	<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>	2011-11-28
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 14° 28.723' N
Lon 151° 59.269 W

BSP 10.9 KTS
HDG 134°
DPT 5734 m

Seas 2-3 meters
Wind E @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	24:00	Transiting to Survey Area

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The Vessel spent the whole day in Transit to MGL1115 survey area.

*** Note due to weather conditions no streamer handling operations took place.

Tomorrow:

The vessel will spend the majority of the day transiting to MGL1115 survey area. Shortly before the end of the day the vessel will slow down and conduct the SIO Acoustic Release Cast to 5000m depth. This operation should continue throughout the rest of the day and the first part of the 30th of Nov.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-11-29	<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>	2011-11-29
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:32
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	23:28
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 11° 28.987' N
Lon 149° 19.007' W

BSP 9.9 KTS
HDG 138°
DPT 5414 m

Seas 1-2 meters
Wind E @ 15-20 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	19:43
19:43	20:15
20:15	0:00

Transiting to Survey Area
SIO Acoustic Release Cast
Aborted SIO Acoustic Release Cast
D/T LVL Winder on Winch
Continue Transiting to Survey Area

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

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SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The Vessel started the day in Transit to MGL1115 survey area. At 19:43 GMT the vessel stopped on location to perform the SIO Acoustic Release Test. This operation was aborted at 20:15 GMT due to the level winder on the winch no operating. The Vessel continued the Transit to MGL1115 survey area.

*** Note – After trouble shooting of the CTD winch level winder issues. It would appear that there is an issue with the automatic level winder control board and possibly one of the limiter sensors. We have bypassed the Automatic functions and will operate the Level winder manually.

Tomorrow:

The vessel will start the day continuing the transit to MGL1115 survey area. At ~14:15 GMT will arrive at the first OBS Deployment location. At that time it will conduct the SIO Acoustic Release Cast to a depth of 5000m. Once the SIO Acoustic Release Cast is complete the vessel will begin OBS Deployment Operation.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-11-30	<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>	2011-11-30
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	6:19
OBS Deployment	2:18
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	15:23
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 55.441' N
Lon 147° 41.542' W

BSP 10.6 KTS
HDG 13.65°
DPT 5240.78 m

Seas < 1 meters
Wind E @ 5-10 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	14:00
14:00	20:19
20:19	20:55
20:55	22:23
22:23	22:37
22:37	0:00

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The Vessel started the day in Transit to MGL1115 survey area. At 14:00 GMT the vessel stopped on location to perform the SIO Acoustic Release Test. This operation completed at 20:19 GMT and OBS Deployment operations began shortly after and continued throughout the rest of the day.

*** Note – Before the SIO Acoustic Release Test began we had two more failures of the CTD Winch Level winder. Each time the fixes got progressively more aggressive until, the Level Winder Control board was complete bypassed and remote joystick was wired directly into the Level Winder Solenoid Valve.

Tomorrow:

The vessel will start the day continuing OBS Deployment Operation and will continue this throughout the entire day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-01	<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>	2011-12-01
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	1:14
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	22:46
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 10° 52' 662" N
Lon 147° 42' 032 W

BSP 9.7 KTS
HDG 58.80°
DPT 5350.56 m

Seas 1-2 meters
Wind E @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	4:17 Transit to OBS-B01 Deployment Site
4:17	4:34 OBS-B01 Deployment
4:34	10:59 Transit to OBS-B04 Deployment Site
10:59	11:25 OBS-B04 Deployment
11:25	16:49 Transit to OBS-B02 Deployment Site
16:49	16:53 OBS-B02 Deployment
16:53	22:26 Transit to OBS-B05 Deployment Site
22:26	22:53 OBS-B05 Deployment
22:53	0:00 Transit to OBS-B03 Deployment Site

4. Comments

Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The Vessel started the day continuing OBS Deployment operations and this operation continued throughout the the day.

Tomorrow:

The vessel will start the day continuing OBS Deployment Operation and will continue this throughout the entire day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-02	<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>	2011-12-02
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	2:09
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	21:51
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 42' 46.915" N
Lon 147° 14' 08.113" W

BSP 11.28 KTS
HDG 258.61°
DPT 5043.46 m

Seas 1-2 meters
Wind E @ 10-15 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	5:49 Transit to OBS-B03 Deployment Site
5:49	6:03 OBS-B03 Deployment
6:03	12:20 Transit to OBS-B07 Deployment Site
12:20	12:34 OBS-B07 Deployment
12:34	18:49 Transit to OBS-M06 Deployment Site
18:49	19:08 OBS-M06 Deployment
19:08	19:27 Transit to OBS-B20 Deployment Site
19:27	19:34 OBS-B20 Deployment
19:34	19:39 Transit to OBS-A31 Deployment Site
19:39	19:48 OBS-A31 Deployment
19:48	20:36 Transit to OBS-A30 Deployment Site
20:36	21:01 OBS-A30 Deployment
21:01	22:01 Transit to OBS-A29 Deployment Site
22:01	22:27 OBS-A29 Deployment
22:27	23:23 Transit to OBS-A28 Deployment Site
23:23	23:38 OBS-A28 Deployment
23:38	0:00 Transit to OBS-A27 Deployment Site

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

5. Daily Summary:

The Vessel started the day continuing OBS Deployment operations and this operation continued throughout the the day.

Tomorrow:

The vessel will start the day continuing OBS Deployment Operation and will continue this throughout the entire day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-03	<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>	2011-12-03
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	8:24
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	15:36
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 07' 47.8" N
Lon 146° 11' 17.6" W

BSP 4.3 KTS
HDG 256°
DPT 5210.59 m

Seas 2-3 meters
Wind E @ 15-20 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	0:32 Transit to OBS-A27 Deployment Site
0:32	0:50 OBS-A27 Deployment
0:50	1:47 Transit to OBS-A26 Deployment Site
1:47	2:14 OBS-A26 Deployment
2:14	3:04 Transit to OBS-A25 Deployment Site
3:04	3:35 OBS-A25 Deployment
3:35	4:28 Transit to OBS-A24 Deployment Site
4:28	4:49 OBS-A24 Deployment
4:49	5:42 Transit to OBS-A23 Deployment Site
5:42	6:02 OBS-A23 Deployment
6:02	6:55 Transit to OBS-A22 Deployment Site
6:55	7:13 OBS-A22 Deployment
7:13	8:05 Transit to OBS-B18 Deployment Site
8:05	8:15 OBS-B18 Deployment
8:15	8:27 Transit to OBS-A21Deployment Site
8:27	8:36 OBS-A21 Deployment
8:36	9:27 Transit to OBS-A20Deployment Site
9:27	9:48 OBS-A20 Deployment
9:48	9:56 Transit to OBS-B17 Deployment Site
9:56	10:12 OBS-B17 Deployment
10:12	10:51 Transit to OBS-M04 Deployment Site
10:51	11:16 OBS-M04 Deployment
11:16	11:26 Transit to OBS-A19 Deployment Site
11:26	11:34 OBS-A19 Deployment
11:34	11:58 Transit to OBS-B16 Deployment Site
11:58	12:16 OBS-B16 Deployment
12:16	12:42 Transit to OBS-A18 Deployment Site
12:42	12:53 OBS-A18 Deployment
12:53	13:34 Transit to OBS-B15 Deployment Site
13:34	14:25 OBS-B15 Deployment
14:25	14:43 Transit to OBS-A17 Deployment Site
14:43	15:00 OBS-A17 Deployment
15:00	15:55 Transit to OBS-T01 Deployment Site
15:55	16:11 OBS-T01 Deployment
16:11	16:14 Transit to OBS-B14 Deployment Site
16:14	16:17 OBS-B14 Deployment
16:17	16:26 Transit to OBS-A16 Deployment Site
16:26	16:31 OBS-A16 Deployment
16:31	17:28 Transit to OBS-A15 Deployment Site

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

17:28	17:48	OBS-A15 Deployment
17:48	17:59	Transit to OBS-B13 Deployment Site
17:59	18:17	OBS-B13 Deployment
18:17	18:58	Transit to OBS-A14 Deployment Site
18:58	19:11	OBS-A14 Deployment
19:11	19:38	Transit to OBS-B12 Deployment Site
19:38	19:53	OBS-B12 Deployment
19:53	20:19	Transit to OBS-M03 Deployment Site
20:19	20:54	OBS-M02 Deployment
20:54	21:00	Transit to OBS-A13 Deployment Site
21:00	21:12	OBS-A13 Deployment
21:12	21:52	Transit to OBS-B11 Deployment Site
21:52	22:19	OBS-B11 Deployment
22:19	22:28	Transit to OBS-A12 Deployment Site
22:28	22:47	OBS-A12 Deployment
22:47	0:00	Transit to OBS-B10 Deployment Site

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

PSO- Meghan Piercy

5. Daily Summary:

The Vessel started the day continuing OBS Deployment operations and this operation continued throughout the the day.

Tomorrow:

The vessel will start the day continuing OBS Deployment Operation and will continue this throughout the entire day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-04	<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>	2011-12-04
Recording	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	4:18
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	19:42
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 7° 36' 63.12" N
Lon 147° 05' 07.13" W

BSP 10.3 KTS
HDG 151°
DPT 5224.29 m

Seas 3-4 meters
Wind E @ 25-30 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	0:09 Transit to OBS-B10 Deployment Site
0:09	0:24 OBS-B10 Deployment
0:24	0:34 Transit to OBS-A11 Deployment Site
0:34	0:39 OBS-A11 Deployment
0:39	1:43 Transit to OBS-A10 Deployment Site
1:43	1:58 OBS-A10 Deployment
1:58	2:58 Transit to OBS-A09 Deployment Site
2:58	3:12 OBS-A09 Deployment
3:12	4:11 Transit to OBS-A08 Deployment Site
4:11	4:30 OBS-A08 Deployment
4:30	5:28 Transit to OBS-M02 Deployment Site
5:28	5:38 OBS-M02 Deployment
5:38	5:55 Transit to OBS-A07 Deployment Site
5:55	6:03 OBS-A07 Deployment
6:03	7:04 Transit to OBS-A06 Deployment Site
7:04	7:40 OBS-A06 Deployment
7:40	8:41 Transit to OBS-A05 Deployment Site
8:41	8:59 OBS-A05 Deployment
8:59	10:00 Transit to OBS-A04 Deployment Site
10:00	10:19 OBS-A04 Deployment
10:19	11:18 Transit to OBS-A03 Deployment Site
11:18	11:54 OBS-A03 Deployment
11:54	12:54 Transit to OBS-A02 Deployment Site
12:54	13:16 OBS-A02 Deployment
13:16	14:15 Transit to OBS-M01 Deployment Site
14:15	14:31 OBS-M01 Deployment
14:31	14:39 Transit to OBS-B08 Deployment Site
14:39	14:44 OBS-B08 Deployment
14:44	14:51 Transit to OBS-A01 Deployment Site
14:51	14:55 OBS-A01 Deployment
14:55	21:05 Transit to OBS-B21 Deployment Site
21:05	21:21 OBS-B21 Deployment
21:21	0:00 Transit to OBS-B25 Deployment Site

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

5. Daily Summary:

The Vessel started the day continuing OBS Deployment operations and this operation continued throughout the day.

Tomorrow:

The vessel will start the day continuing OBS Deployment Operation and this will continue throughout the entire day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-05	<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>	2011-12-05
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	2:17
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	21:43
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 8° 53' 57.05" N
Lon 145° 12' 13.55" W

BSP 9.62 KTS
HDG 345°
DPT 5291.99 m

Seas 3-4 meters
Wind NE @ 25-30 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	3:09 Transit to OBS-B25 Deployment Site
3:09	3:26 OBS-B25 Deployment
3:26	9:08 Transit to OBS-B22 Deployment Site
9:08	9:23 OBS-B22 Deployment
9:23	13:46 Transit to OBS-B26 Deployment Site
13:46	14:00 OBS-B26 Deployment
14:00	16:52 Transit to OBS-C03 Deployment Site
16:52	17:03 OBS-C03 Deployment
17:03	20:23 Transit to OBS-T03 Deployment Site
20:23	21:35 OBS-T03 Deployment
21:35	21:45 Transit to OBS-C02 Deployment Site
21:45	21:53 OBS-C02 Deployment
21:53	0:00 Transit to OBS-C01 Deployment Site

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

5. Daily Summary:

The Vessel started the day continuing OBS Deployment operations and this operation continued throughout the day.

Tomorrow:

The vessel will start the day continuing OBS Deployment Operation and this will continue throughout most of the day. At ~20:00 GMT the last OBS will be deployed and the vessel will start its transit toward the first line, which will be source only operation. The Transit will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-06	<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>	2011-12-06
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	0:55
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	23:05
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 06' 98.13" N
Lon 143° 39' 69.04" W

BSP 11.75 KTS
HDG 284°
DPT 5125.69 m

Seas 2-3 meters
Wind N @ 10-15 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	0:42 Transit to OBS-C01 Deployment Site
0:42	1:00 OBS-C01 Deployment
1:00	7:39 Transit to OBS-B23 Deployment Site
7:39	7:48 OBS-B23 Deployment
7:48	13:48 Transit to OBS-B27 Deployment Site
13:48	14:03 OBS-B27 Deployment
14:03	19:39 Transit to OBS-B24 Deployment Site
19:39	19:52 OBS-B24 Deployment
19:52	0:00 Transiting to Line MGL1115-001

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The Vessel started the day continuing OBS Deployment operations and at 19:52 GMT the last OBS was deployed. The vessel began transiting to Line MGL1115-001 which continued throughout the day.

Tomorrow:

The vessel will start transiting to Line MGL1115-001 and at 03:30 GMT the vessel will slow down to start deploying the energy source in order to have a mitigation element online before the sun sets. The Vessel will then continuing to transit to MGL1115-001 and should begin production at ~ 09:00 GMT and will continue on this line throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-07	<u>Sailed Km</u>
Prime	99.600
Infill	0.000
Reshoot	0.000
Total:	99.600

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-07
Production	12:06
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	8:01
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	3.55
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 35' 14.07" N
Lon 143° 53' 12.76" W

BSP 4.4 KTS
HDG 067°
DPT 5142.15 m

Seas 1-2 meters
Wind ENN @ 15-20 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
	0:00	2:33				
		Transiting to Line MGL1115-001				
	2:33	8:57				
		Deploying Air Source				
	8:57	10:34				
		Repairing Sub-Array #4				
	10:34	11:56				
		Transiting to Line MGL1115-001				
	11:56	0:00				
		Prime Production MGL1115-001	1399	1233	166	99.600

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The Vessel started the day continuing transiting to Line MGL1115-001. At 02:33 GMT the vessel slowed down and began the energy source deployment operation. This operation took a little longer than expected due to some issues with Sub-Array #4 and movement off all the primary tow points on each of the strings. At 10:34 GMT all Sub-Arrays were in position and ramped up. A couple of short test lines were ran on the transit to MGL1115-001 which started at 11:56 GMT and continued throughout the day.

Tomorrow:

The vessel will start the day in production on MGL1115-001 and 17:00 GMT will conclude this line as well as the source only operations. The Source will be recovered and Streamer Deployment operations will begin and will continue throughout the day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-08	<u>Sailed Km</u>
Prime	141.600
Infill	0.000
Reshoot	0.000
Total:	141.600

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-08
Production	17:15
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	0:54
Streamer	0:21
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	5:30
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 54' 07.37" N
Lon 143° 34' 80.24" W

BSP 0.5 KTS
HDG 247°
DPT 5069.55 m

Seas 1-2 meters
Wind NE @ 5-10 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	17:15	Prime Production MGL1115-001	1234	998	236	141.600
17:15	18:09	Recovering Source				
18:09	18:30	Preparing for Streamer Deployment				
18:30	0:00	Standing by for System 2 Hydraulic failure				

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on MGL1115-001. At 17:15 GMT the line was concluded will conclude and the Energy Source was recovered at 18:09. Once the source was onboard preparation for Deployment of Streamer 1 got underway. At 18:30 System 2 Hydraulic System was started up at which time a compression flange on one of the supply lines let lose. The system was shut down and repairs were started which continued throughout the rest of the day.

Tomorrow:

The vessel will start continuing to standby near the NE of line MGL1115-002 while repairs are ongoing on Hydraulic System #2 supply line failure. Once this repair is completed Streamer Deployment operations will begin and continue throughout the rest of the day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-09	<u>Sailed Km</u>
Prime	31.800
Infill	0.000
Reshoot	13.800
Total: 45.600	

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-09
Production	3:55
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	6:04
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	1:26
Streamer	8:13
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	4:22
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total: 24.00	

UTC Midnight (24:00) Position / Heading:

Lat 9° 47' 85.32" N
Lon 143° 48' 02.27" W

BSP 4.35 KTS
HDG 253°
DPT 5145 m

Seas 1-2 meters
Wind E @ 5-10 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event	FSP	LSP	Total SP	Sail Line KM
	0:00	4:22	Standing by for System 2 Hydraulic failure			
	4:22	12:35	Deploying Streamer			
	12:35	14:01	Deploying Source			
	14:01	15:33		984	1007	23 13.800
	15:33	19:56	Circle due to Navigation Issues.			
	19:56	20:35		975	983	8 4.800
	20:35	22:16		984	1007	23 13.800
	22:16	0:00		1008	1030	22 13.200

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day standing by for repairs to System 2 Hydraulic System. The repairs were completed at 04:22 GMT and Streamer Deployment operations began. The Streamer was deployed at 12:35 GMT and Source Deployment Operation started. At 14:01 GMT the Source was fully deployed and ramped up. At that time MGL1115-002 began, from the start there were issues with the Navigation (Spectra) system consistently receiving the DigiCourse Compass data. At 15:33 GMT the line was abort and the vessel began circling around to reshoot the line. During the circle trouble shooting continuing to be performed on the issue and a couple of things were discovered. One was that the External Trigger line which received the command to send data from spectra to the DigiCourse DMU as faulty. The Second is that there seems is a software issue related to the communication between Spectra and DigiCourse when there is more than 160 sec between shots. Since the PI are requesting 600m or ~253 seconds between shot points this is not something we will be able to overcome. At 19:56 GMT the vessel resumed MGL1115-002A still acquiring both MCS and OBS data, but without the benefit of DigiCourse Compass data to aid in positioning of the Streamer. The Acoustics and GPS will be the only Navigation information use. MGL1115-002A continued throughout the rest of the day.

Tomorrow:

The vessel will start continuing production on MGL1115-002A and this will continue throughout the rest of the day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-10	<u>Sailed Km</u>
Prime	197.400
Infill	0.000
Reshoot	0.000
Total:	197.400

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-10
Production	23:56
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	0:00
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 9° 26' 89.09" N
Lon 143° 34' 81.05" W

BSP 4.25 KTS
HDG 259°
DPT 5135 m

Seas 1-2 meters
Wind E @ 5-10 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

					Sail Line		
	Time	Event	FSP	LSP	Total SP	KM	
	0:00	23:07	Prime -MGL1115-002A	1031	1350	319	191.400
	23:07	23:11	Navigation Restart				
	23:11	0:00	Prime -MGL1115-002A	1351	1361	10	6.000

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started in production on MGL1115-002A which continued until 23:07 when there was a Spectra Navigation Lockup. The system was restarted and Line MGL1115-002B was started at 23:11 and continued throughout the rest of the day.

*** Note – Spectra Navigation (Header Transfer) issues continued on into the next day. Trouble shooting is ongoing as to the exact problem, but at this time it is not severe enough to stop production

Tomorrow:

The vessel will start continuing production on MGL1115-002B and this will continue throughout the rest of the day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-11	<u>Sailed Km</u>
Prime	199.800
Infill	0.000
Reshoot	0.000
Total:	199.800

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-11
Production	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 9° 05' 32.41" N
Lon 146° 21' 71.33" W

BSP 4.5 KTS
HDG 259°
DPT 5207 m

Seas 1-2 meters
Wind E @ 5-10 KTS

Cruise : MGL1115

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

NoMelt - Gaherty
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	0:00		1362	1695	333 199.800

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus
Science Officer – David Martinson
Marine Tech – Bern McKiernan
Marine Tech – Ryan Eaton
Marine Tech – Mike Martello
Chief Source Tech – Tom Spoto
Source Tech – Carlos Gutierrez
Source Tech - Mike Tatro
Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde
Co-chief - Jim Gaherty
Watch stander - Helen Fung
Watch stander - Justin Ball
Watch stander - David Margolius
Watch stander - Colin Skinner
WHOI MT Tech - Chris Judge
WHOI MT Tech - Jimmy Elsenbeck
WHOI OBS Tech - Peter Lemmond
WHOI OBS Tech - David Dubois
SIO OBS Tech - Martin Rapa
SIO OBS Tech - Ernie Aaron
SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram
PAM Operator- Emily Ellis
PSO- Amanda Harrison
PSO- Dara Cameron
PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on MGL1115-002B continued throughout the rest of the day.

Tomorrow:

The vessel will start continuing production on MGL1115-002B and this will continue throughout the rest of the day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-12	<u>Sailed Km</u>
Prime	166.200
Infill	0.000
Reshoot	0.000
Total:	166.200

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-12
Production	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 8° 46' 84.87" N
Lon 147° 51' 16.64" W

BSP 4.5 KTS
HDG 259°
DPT 5200 m

Seas 1-2 meters
Wind SE @ 5-10 KTS

Cruise : MGL1115

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

NoMelt - Gaherty
R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	0:00	Prime -MGL1115-002B	1696	1973	277	166.200

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus
Science Officer – David Martinson
Marine Tech – Bern McKiernan
Marine Tech – Ryan Eaton
Marine Tech – Mike Martello
Chief Source Tech – Tom Spoto
Source Tech – Carlos Gutierrez
Source Tech - Mike Tatro
Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde
Co-chief - Jim Gaherty
Watch stander - Helen Fung
Watch stander - Justin Ball
Watch stander - David Margolius
Watch stander - Colin Skinner
WHOI MT Tech - Chris Judge
WHOI MT Tech - Jimmy Elsenbeck
WHOI OBS Tech - Peter Lemmond
WHOI OBS Tech - David Dubois
SIO OBS Tech - Martin Rapa
SIO OBS Tech - Ernie Aaron
SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram
PAM Operator- Emily Ellis
PSO- Amanda Harrison
PSO- Dara Cameron
PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on MGL1115-002B continued throughout the rest of the day.

*** Note – At 05:39 GMT there were some network issues which required a complete reboot of almost all systems from Seismic Data Acquisition, Ship Navigation, and Internship Communications. After all systems were brought back online it was noticed that the tension on the Streamer had increased. After considering the options with the PI it was decided to launch the Rescue Boat to go back and take a look at the Tailbuoy. At 22:53 GMT the Rescue Boat was launch and on arrived at the tailbuoy a large fish trap (~10ft x ~10ft x ~10ft) was tangled around the tailbuoy mast and was being towed. The rescue boat got a long side the tailbuoy and cut the line attached to the trap. The Tension on the streamer dropped by ~1000 lbs and the streamer began to two normally. The Rescue Boat returned to the ship and was onboard at 23:39 GMT.

Tomorrow:

The vessel will start the day continuing production on MGL1115-002B and at ~03:00 GMT will complete this line. A normal line change will be made to line MGL1115-03 which will continue throughout the day. During the line change Sub-Array 4 will be picked up for Maintenance.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-13	<u>Sailed Km</u>
Prime	166.200
Infill	0.000
Reshoot	0.000
Total:	166.200

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-13
Production	21:37
Line Change	2:23
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 9° 00' 68.84" N
Lon 146° 44' 33.55" W

BSP 4.6 KTS
HDG 78.84°
DPT 5307 m

Seas 2-3 meters
Wind ENE @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	2:31 Prime -MGL1115-002B		1974	2008	34 20.400
2:31	4:54 Line Change				
4:54	0:00 Prime -MGL1115-003		976	1236	260 156.000

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

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SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on Line MGL1115-002B and at 02:31 GMT completed the line and a normal line change was made. At 04:54 GMT Line MGL1115-003 was started and continued throughout the rest of the day.

Tomorrow:

The vessel will start the day continuing production on line MGL1115-003 which should conclude ~12:00 and a normal line change will be made to line MGL1115-004. MGL1115-004 will continue throughout the rest of the day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-14	<u>Sailed Km</u>
Prime	168.000
Infill	0.000
Reshoot	0.000
Total:	168.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-14
Production	20:29
Line Change	0:11
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	3:20
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 9° 50' 21.00" N
Lon 146° 44' 24.00" W

BSP 4.4 KTS
HDG 55.52°
DPT 5097 m

Seas 2-3 meters
Wind E @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

			Sail Line			
Time	Event	FSP	LSP	Total SP	KM	
0:00	2:47	Prime -MGL1115-003	1237	1267	30	18.000
2:47	5:37	Circle for Spectra				
5:37	6:07	Reshoot -MGL1115-003A	1260	1267	7	4.200
6:07	13:53	Prime -MGL1115-003A	1268	1374	106	63.600
13:53	14:04	Line Change				
14:04	0:00	Prime -MGL1115-004	1003	1140	137	82.200

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on Line MGL1115-003 and at 02:47 GMT the line was aborted due to Spectra Navigation Issues and the vessel began circling around. At 05:37 GMT Line MGL1115-003A was started and continued until 13:53 GMT. A normal Line change was made to Line MGL1115-004 which continued throughout the rest of the day.

Tomorrow:

The vessel will start the day continuing production on line MGL1115-004 which should conclude ~19:00 and a normal line change will be made to line MGL1115-005. Line MGL1115-005 will continue throughout the rest of the day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-15	<u>Sailed Km</u>
Prime	158.400
Infill	0.000
Reshoot	4.800
Total:	163.200

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-15
Production	20:33
Line Change	0:14
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	3:13
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 9° 23' 67.63" N
Lon 144° 50' 89.82" W

BSP 4.6 KTS
HDG 257.7°
DPT 5095 m

Seas 2-3 meters
Wind E @ 10-15 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

			Sail Line			
Time	Event	FSP	LSP	Total SP	KM	
0:00	2:40	Prime -MGL1115-004	1141	1176	35	21.000
2:40	5:19	Circle for PSO Sighting				
5:19	5:53	Reshoot -MGL1115-004A	1168	1176	8	4.800
5:53	21:23	Prime -MGL1115-004A	1177	1374	197	118.200
21:23	21:37	Line Change				
21:37	0:00	Prime -MGL1115-005	1379	1411	32	19.200

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on Line MGL1115-004 and at 02:40 GMT the line was aborted due PSO Sightings and the vessel began circling around. At 05:19 GMT Line MGL1115-004A was started and continued until 21:23 GMT. A normal Line change was made to Line MGL1115-005 which continued throughout the rest of the day.

Tomorrow:

The vessel will start the day continuing production on line MGL1115-005 which should conclude ~11:00 and a normal line change will be made to line MGL1115-006. Line MGL1115-006 will continue throughout the rest of the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-16	<u>Sailed Km</u>
Prime	158.400
Infill	0.000
Reshoot	4.800
Total:	163.200

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-16
Production	23:55
Line Change	0:05
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
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 7° 59' 34.55" N
Lon 145° 02' 70.42" W

BSP 4.5 KTS
HDG 166.7°
DPT 5160 m

Seas 2-3 meters
Wind E @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	6:22 Prime -MGL1115-005		1411	1500	89 53.400
6:22	6:27 Line Change				
6:27	0:00 Prime -MGL1115-006	1003	1244	241	144.600

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on Line MGL1115-005 and at 06:22 GMT the line ended normally and vessel began a normal line change. At 06:27 GMT Line MGL1115-006 was started and continued throughout the rest of the day.

Tomorrow:

The vessel will start the day continuing production on line MGL1115-006 which should conclude ~07:30 and at which time the vessel will begin recovery or all towed equipment. Once the Towed equipment is onboard the Energy source will be re-deployed and a source only line should begin around 17:00 GMT and continue to ~22:00 GMT when the source will again be recovered, so OBS recovery operations can begin shortly after.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-17	<u>Sailed Km</u>
Prime	126.000
Infill	0.000
Reshoot	0.000
Total:	126.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-17
Production	14:55
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	3:22
Streamer	2:26
Seismic Air Compressor	0:00
Mitigation/PAM	0:32
Transit	0:00
Ship Repair	0:00
Maneuvering	2:45
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 7° 58' 64.70" N
Lon 145° 02' 55.38" W

BSP 4.5 KTS
HDG 340°
DPT 5017 m

Seas 1-2 meters
Wind E @ 10-15 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

						Sail Line
Time	Event	FSP	LSP	Total SP	KM	
0:00	7:27	Prime -MGL1115-006	1245	1351	106	63.600
7:27	9:02	Source Recovery				
9:02	11:28	Streamer Recovery				
11:28	13:15	Source Deployment				
13:15	16:00	Maneuvering to MGL115-007				
16:00	16:32	Ramping up				
16:32	0:00	Prime -MGL1115-007	1355	1251	104	62.400

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on Line MGL1115-006 and at 07:27 GMT the line ended normally and vessel began turning Fair Seas to begin recovery of all towed Equipment. At 11:28 both the Source and Streamer were onboard and the Source was redeployed and the vessel made it way towards MGL1115007. The line was started at 16:32 GMT and continued throughout the rest of the day.

Tomorrow:

The vessel will start the day continuing production on line MGL1115-007 which will conclude ~01:30 and at which time the vessel will again begin recovery of all towed equipment. Once the Towed equipment is onboard OBS recovery operations will begin shortly after.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-18	<u>Sailed Km</u>
Prime	13.200
Infill	0.000
Reshoot	0.000
Total:	13.200

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2011-12-18
Production	1:30
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	13:18
CTD Cast	0:00
Hydraulics	0:00
Source	1:26
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	7:46
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 17' 90.60" N
Lon 145° 19' 12.03" W

BSP 2.36 KTS
HDG 71°
DPT Sonar Secured

Seas 1-2 meters
Wind SW @ 10-15 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event	FSP	LSP	Total SP	Sail Line KM	
0:00	1:30	Prime -MGL1115-007	1252	1230	22	13.200
1:30	2:56	Source Recovery				
2:56	3:10	Transit to OBS - C03				
3:10	5:05	Recovery OBS-C03				
5:05	7:35	Transit to OBS-C02				
7:35	10:21	Recovery OBS-C02				
10:21	10:31	Transit to OBS-T03				
10:31	14:00	Recovery of OBS-T03 - Lost at Sea				
14:00	16:19	Transit to OBS -C01				
16:19	18:40	Recovery of OBS-C01				
18:40	21:13	Transit to OBS - T01 and A16				
21:13	0:00	Recovery of OBS - T01 and A16				

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started the day in production on Line MGL1115-007 and at 01:30 GMT the line ended normally and vessel began recovery of all towed Equipment. At 02:26 the Source and Streamer was onboard and the vessel made its way towards the first OBS recovery Site. At 03:10 GMT Obs Recovery Operation began and continued throughout the rest of the day.

**** OBS-TO3 recovery was abandoned due to no communication with instrument. Also at the end of day communication could not be established with OBS-T01 or A16.

Tomorrow:

The vessel will be continuing OBS Recovery Operations throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-19	<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>	2011-12-19
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	13:38
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	10:22
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 36.1' N
Lon 143° 47.9' W

BSP 10 KTS
HDG 79°
DPT

Seas 3-4 meters
Wind ENE @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
0:00	3:25 Recovery of OBS - T01 and A16
3:25	4:45 Transit to OBS A17
4:45	6:43 Recovery of OBS A17
6:43	8:00 Transit to OBS A18
8:00	10:26 Recovery OBS A18
10:26	11:39 Transit to OBS A19
11:39	13:26 Recovery OBS A19
13:26	14:57 Transit to OBS A20
14:57	16:34 Recovery OBS A20
16:34	17:43 Transit to OBS A21
17:43	20:08 Recovery OBS A21
20:08	0:00 Transit to OBS A31

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

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WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started doing OBS Recovery Operation and continued throughout the day.

**** OBS-T01 and A16 recovery was abandoned due to no communication with instrument. A second attempt to recover these instruments will be taken when the vessel transits back over the location in a couple of Day.

**** During the Transit from A21 to A31. Streamer 3 was moved off it reel to the Spares Reel (5100m) and 900m to Streamer 2. This was done to get access to the lead-in for changing it out to the spare. When the Weather comes down over the next couple of days the change out will take place.

Tomorrow:

The vessel will be continuing OBS Recovery Operations throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-20	<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>	2011-12-20
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	11:28
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	12:32
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 39' 20.95" N
Lon 143° 31' 45.88" W

BSP 1.26 KTS
HDG 315°
DPT 5048

Seas 1-2 meters
Wind E @ 5-10 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
0:00 7:00	7:00	Transit to OBS A31
7:00 8:54	1:54	Recovery OBS A31
8:54 9:55	1:01	Transit to OBS A30
9:55 11:40	1:45	Recovery OBS A30
11:40 12:52	1:12	Transit to OBS A29
12:52 14:40	1:48	Recovery OBS A29
14:40 15:46	1:06	Transit to OBS A28
15:46 17:42	1:56	Recovery OBS A28
17:42 18:41	0:59	Transit to OBS A27
18:41 22:46	4:05	Recovery OBS A27 (Not Recovered)
22:46 0:00	1:14	Transit to OBS A26

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

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Watch stander - Helen Fung

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WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started doing continuing OBS Recovery Operation and this continued throughout the day.

**** OBS-A27 (SIO) recovery was abandoned instrument was communicated with but would not leave the sea floor

**** During OBS Recovery Operations – Streamer 3's lead-in was changed out and the new lead-in is functioning properly.

Tomorrow:

The vessel will be continuing OBS Recovery Operations throughout the day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-21	<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>	2011-12-21
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	13:30
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	10:30
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 18' 14.29" N
Lon 143° 18' 47.35" W

BSP 2.75 KTS
HDG 292°
DPT 5282

Seas 1-2 meters
Wind NE @ 10-15 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
0:00	0:10	0:10 Transit to OBS A26
0:10	4:35	4:25 Recovery OBS A26 (Not Recovered)
4:35	5:40	1:05 Transit to OBS A25
5:40	8:24	2:44 Recovery OBS A25 (Not Recovered)
8:24	9:25	1:01 Transit to OBS A24
9:25	11:43	2:18 Recovery OBS A24
11:43	12:45	1:02 Transit to OBS A23
12:45	15:02	2:17 Recovery OBS A23
15:02	16:14	1:12 Transit to OBS A22
16:14	17:58	1:44 Recovery OBS A22
17:58	18:58	1:00 Transit to OBS B18
18:58	19:00	0:02 Test Coms with OBS B18
19:00	0:00	5:00 Transit to OBS A16

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

5. Daily Summary:

The vessel started doing continuing OBS Recovery Operation and this continued throughout the day.

**** OBS-A26 & A25 (SIO) recovery was abandoned.

Tomorrow:

The vessel will be continuing OBS Recovery Operations throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-22	<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>	2011-12-22
Production	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	16:40
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	7:20
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 03' 02.87" N
Lon 146° 34' 56.63" W

BSP 2.79 KTS
HDG 096.87°
DPT 5249

Seas 1-2 meters
Wind NE @ 15-20 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
0:00	0:19	0:19 Transit to OBS A16 & TO1
0:19	3:53	3:34 Recovery OBS A16 (Not Recovered) & TO1
3:53	5:02	1:09 Transit to OBS A15
5:02	6:54	1:52 Recovery OBS A15
6:54	7:54	1:00 Transit to OBS A14
7:54	9:43	1:49 Recovery OBS A14
9:43	10:48	1:05 Transit to OBS A13
10:48	12:30	1:42 Recovery OBS A13
12:30	13:31	1:01 Transit to OBS A12
13:31	15:34	2:03 Recovery OBS A12
15:34	16:31	0:57 Transit to OBS A11
16:31	18:20	1:49 Recovery OBS A11
18:20	19:11	0:51 Transit to OBS A10
19:11	21:20	2:09 Recovery OBS A10
21:20	22:18	0:58 Transit to OBS A09
22:18	0:00	1:42 Recovery OBS A09

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

5. Daily Summary:

The vessel started doing continuing OBS Recovery Operation and this continued throughout the day.

**** A second attempt was taken to recover OBS-A16 (SIO) & OBS-TO1 (WHOI MT). OBS-TO1 was recovered but not OBS-A16.

**** During the afternoon 900m of Streamer was transferred back to Streamer Reel 3 and the cable was trimmed and made ready for the Line Island Coring Cruise in 2012. During this operation the Slip Ring Jumper on Streamer Reel 2 came loose and was damaged. That Slip ring will be replaced with a spare before arrival in Honolulu on the 29th of Dec, so onboard repairs can be made.

Tomorrow:

The vessel will be continuing OBS Recovery Operations throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-23	<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>	2011-12-23
Production	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	15:30
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	8:30
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 8° 46' 11.54" N
Lon 147° 54' 76.77" W

BSP 10.3 KTS
HDG 255°
DPT 5277

Seas 1-2 meters
Wind NE @ 15-20 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
0:00	0:59	0:59 Recovery OBS A09
0:59	1:58	0:59 Transit to OBS A08
1:58	5:43	3:45 Recovery OBS A08
5:43	7:00	1:17 Transit to OBS A07
7:00	8:46	1:46 Recovery OBS A07
8:46	9:55	1:09 Transit to OBS A06
9:55	15:00	5:05 Recovery OBS A06
15:00	16:12	1:12 Transit to OBS A05
16:12	18:10	1:58 Recovery OBS A05
18:10	19:20	1:10 Transit to OBS A04
19:20	21:17	1:57 Recovery OBS A04
21:17	0:00	2:43 Transit to OBS A01

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started doing continuing OBS Recovery Operation and this continued throughout the day.

Tomorrow:

The vessel will be continuing OBS Recovery Operations throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-24	<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>	2011-12-24
Production	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	16:06
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	7:54
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 9° 41' 98.24" N
Lon 147° 44' 96.71" W

BSP 2.3 KTS
HDG 045°
DPT 5282

Seas 2-3 meters
Wind NE @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
0:00 0:29	0:29	Transit to OBS A01
0:29 12:22	11:53	Recovery OBS A01
12:22 13:36	1:14	Transit to OBS A02
13:36 15:35	1:59	Recovery OBS A02
15:35 16:48	1:13	Transit to OBS A03
16:48 18:40	1:52	Recovery OBS A03
18:40 23:38	4:58	Transit to OBS T00
23:38 0:00	0:22	Recovery OBS T00

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started doing continuing OBS Recovery Operation and this continued throughout the day.

**** A01 took much longer to recover then planned and to ~17 burn commands to get it to release from the sea floor.

Tomorrow:

The vessel will start the day continuing OBS Recovery Operations on T00. Once T00 is onboard the vessel will begin to survey in a couple of the broadband OBS B01 and B04 before beginning the transit back to Honolulu.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-25	<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>	2011-12-25
Production	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	5:35
OBS Recovery	3:28
CTD Cast	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	14:57
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 10° 51' 59.72" N
Lon 147° 13' 17.90" W

BSP 11.1 KTS
HDG 0295°
DPT 5320

Seas 2-3 meters
Wind E @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event
	0:00	3:28	3:28
			Recovery OBS T00
	3:28	7:38	4:10
			Surveying Position of B06
	7:38	17:28	9:50
			Transit to OBS B04
	17:28	18:53	1:25
			Surveying Position of B04
	18:53	0:00	5:07
			Transit to Honolulu, Hawaii

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started doing continuing OBS Recovery Operation and at 03:28 GMT the last OBS to be recovered was onboard. The Vessel began Survey Operation for Position of a couple of the broad band OBS units (B06 & B04). At 18:53 Survey Operation of B04 was completed and the vessel got underway for Honolulu, Hawaii and this continued throughout the rest of the day.

Tomorrow:

The vessel will start the day continuing transit back to Honolulu, which will continue throughout the day.

Regards
Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-26	<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>	2011-12-26
Production	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 13° 23' 87.53" N
Lon 150° 50' 72.01" W

BSP 10.62 KTS
HDG 322°
DPT 5320

Seas 2-3 meters
Wind NE @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
0:00	0:00	0:00
		Transit to Honolulu, Hawaii

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

5. Daily Summary:

The vessel started doing continuing the transit to Honolulu, Hawaii and this continued throughout the rest of the day.

Tomorrow:

The vessel will continue the transit back to Honolulu, which will go on throughout the day.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-27	<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>	2011-12-27
Production	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 16° 35' 17.37" N
Lon 153° 42' 42.91" W

BSP 11.2 KTS
HDG 322°
DPT 5165

Seas 2-3 meters
Wind NE @ 20-25 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
0:00	0:00	0:00
		Transit to Honolulu, Hawaii

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

5. Daily Summary:

The vessel started doing continuing the transit to Honolulu, Hawaii and this continued throughout the rest of the day.

Tomorrow:

The vessel will continue the transit back to Honolulu, which will go on throughout the day. At ~18:00 GMT the vessel will be slowed down to 6 kts, to allow so work on Streamer 3 and to tighten the new lead-in that was installed last week.

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-28	<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>	2011-12-28
Production	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 19° 26' 74.63" N
Lon 156° 25' 38.82" W

BSP 8.3 KTS
HDG 324°
DPT 4601

Seas 1 meter
Wind NW @ 5-10 KTS

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Amount of Time	Event
0:00	0:00	0:00
		Transit to Honolulu, Hawaii

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

Source Tech – West Groves

Science Party on board:

Chief Scientist - Dan Lizarralde

Co-chief - Jim Gaherty

Watch stander - Helen Fung

Watch stander - Justin Ball

Watch stander - David Margolius

Watch stander - Colin Skinner

WHOI MT Tech - Chris Judge

WHOI MT Tech - Jimmy Elsenbeck

WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

5. Daily Summary:

The vessel started doing continuing the transit to Honolulu, Hawaii and this continued throughout the rest of the day. During the afternoon the vessel was slowed down to allow for Streamer 3 (900m) to be deployed, along with the new lead-in to be re-tensioned. During this operation Streamer 3 had all it weights installed. Had a section changed out for bad hydrophones and had it Tailbuoy and Bird Coils Test. The Streamer was towed at 9m to check the trim and run test on the streamer while the Lead-in Tensioning was taking place and it should be ready for deployment on the coring cruise.

Tomorrow:

The vessel will continue the transit back to Honolulu, Hawaii. At ~17:30 GMT the vessel should arrive in port at the U of H Pier 43 and will begin De-Mobilization for MGL1115

Regards

Robert J Steinhaus

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2011-12-29	<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>	2011-12-29
Production	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	18:40
Ship Repair	0:00
Maneuvering	0:00
Port Call	5:20
Other	0:00
Total:	24.00

UTC Midnight (24:00) Position / Heading:

Lat 21° 18.97" N
Lon 157° 53.17" W

BSP 0 KTS
HDG 186°
DPT N/A – In Port

Seas Calm
Wind In Port

Cruise : MGL1115

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Sr. Science Officer (LDEO)

NoMelt - Gaherty

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event
	0:00	18:40	18:40
	18:40	0:00	5:20
			Transit to Honolulu, Hawaii
			Port Call Pier 43 (U of H Dock)

4. Comments Local vessel time is UTC-10

Science Technical staff on board:

Chief Science Officer – Robert J Steinhaus

Science Officer – David Martinson

Marine Tech – Bern McKiernan

Marine Tech – Ryan Eaton

Marine Tech – Mike Martello

Chief Source Tech – Tom Spoto

Source Tech – Carlos Gutierrez

Source Tech - Mike Tatro

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WHOI OBS Tech - Peter Lemmond

WHOI OBS Tech - David Dubois

SIO OBS Tech - Martin Rapa

SIO OBS Tech - Ernie Aaron

SIO OBS Tech - David Anderson

Marine Mammal Observer Staff on board:

Lead PSO- Heidi Ingram

PAM Operator- Emily Ellis

PSO- Amanda Harrison

PSO- Dara Cameron

PSO- Meghan Piercy

5. Daily Summary:

The vessel started the day continuing the transit to Honolulu, Hawaii. At 18:40 Vessel was all secure alongside Pier 43 (U of H Marine Facility) and the demobilization from MGL1115 began.

Tomorrow:

The vessel will continue the port call at the U of H Pier 43 and will continue De-Mobilization for MGL1115

Regards

Robert J Steinhaus