



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 14 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/14/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	06/14/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	24:00
Weather/Currents	0:00
Propulsion/Power Failure	0:00
OBS Recovery:Transit	0:00
OBS Recovery:Pinging	0:00
OBS Recovery:Rising	0:00
OBS Recovery:Recovering	0:00
Total:	24:00



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R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	First line / securing alongside

GMT Midnight (24:00) Position / Heading:

POS 22 37.10415 N
 120 16.62514 E
HDG: 302 Deg
SPEED: 0.0 Knots

Weather:

Winds E @ 5 Kts
Seas Calm

Comments local time is UTC+8

Science technical staff currently on board:

Johnson, Spoto, McKiernan, Koczynski, Ng, Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast,

Science party currently on board:

None

Contractors currently on board:

None

Mammal observers currently on board vessel:

None.

Daily Summary:

Port Call Kaohsiung – De-Mobilization from MGL0907 – Off loading Science Equipment and on loading Stores.

Tomorrow:

Port Call Kaohsiung – Continue Off Loading Science Equipment and on loading Supplies. Make ready for MGL0908. We will be changing out Hose Bundle 1, 2, & 4. Hose Bundle 2 and 4 will be taken out of service and keep onboard as spares. Hose bundle 1 will be moved from it outside position to an inside Position 2. The two brand new Hose Bundles will be installed on the outer strings 1 & 4.

Best Regards,
Robert J Steinhaus



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 15 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/15/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	06/15/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	24:00
Weather/Currents	0:00
Propulsion/Power Failure	0:00
OBS Recovery:Transit	0:00
OBS Recovery:Pinging	0:00
OBS Recovery:Rising	0:00
OBS Recovery:Recovering	0:00
Total:	24:00



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Securing alongside Kaohsiung

GMT Midnight (24:00) Position / Heading:

POS 22 37.10415 N
 120 16.62514 E
HDG: 302 Deg
SPEED: 0.0 Knots

Weather:

Winds E @ 5 Kts
Seas Calm

Comments local time is UTC+8

Science technical staff currently on board:

Johnson, Spoto, Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton

Science party currently on board:

None

Contractors currently on board:

None

Mammal observers currently on board vessel:

None.

Daily Summary:

Port Call Kaohsiung – De-Mobilization from MGL0907 – Off loading Science Equipment and on loading Stores. We changed out, Hose Bundles 1 & 2 yesterday.

Tomorrow:

Port Call Kaohsiung – Continue Off Loading Science Equipment and on loading Supplies. Make ready for MGL0908. We will change out Hose Bundle 4 and start configuring Birds and Pods for Streamer Deployment.

Best Regards,
Robert J Steinhaus



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 16 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/16/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	06/16/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	24:00
Weather/Currents	0:00
Total:	24:00



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Securing alongside Kaohsiung

GMT Midnight (24:00) Position / Heading:

POS 22 37.10415 N
 120 16.62514 E
HDG: 302 Deg
SPEED: 0.0 Knots

Weather:

Winds E @ 5 Kts
Seas Calm

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Maxwell,

Science party currently on board:

None

Contractors currently on board:

None

Mammal observers currently on board vessel:

None.

Daily Summary:

Port Call Kaohsiung – De-Mobilization from MGL0907 – Off loading OBS Science Equipment and on loading Stores. We were not able to complete changing out Hose Bundles 4 yesterday, because of work being done on Hydraulics System #1. We also configured Spectra, Birds and Pods for Deployment

Tomorrow:

Port Call Kaohsiung – Continue loading Supplies. Make ready for MGL0908. Once the Hydraulics are operational will change complete the out Hose Bundle 4. In addition we will make preparation for turning around Streamer #1 (Damaged during MGL0905) on the reel the correct way. Tailbuoy #1 & 2 will be moved to OBS Deck to clear the stern of the vessel for this operation.

Best Regards,
Robert J Steinhaus



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 17 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/17/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	06/17/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	24:00
Weather/Currents	0:00
Total:	24:00



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To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Securing alongside Kaohsiung

GMT Midnight (24:00) Position / Heading:

POS 22 37.10415 N
 120 16.62514 E
HDG: 302 Deg
SPEED: 0.0 Knots

Weather:

Winds E @ 5 Kts
Seas Calm

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Antochiw, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland Antochiw

Daily Summary:

Port Call Kaohsiung – Mobilization from MGL0908 –Continuing on loading stores. After some short delays for Hydraulics in the morning we were able to completed loading of Hose Bundle 1 and Change out of Hose Bundle 4.

Tomorrow:

We plan on getting underway at ~02:00 UTC for the survey area, but this could be delayed due to Tropical Storm #3 which is currently located ~350 nm WSW of Kaohsiung. TS#3 predicted path would take in through the Luzon Straits on the ~12:00 (Local) on the 20th of June.

Best Regards,
Robert J Steinhaus



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To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 18 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/18/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	06/18/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	2:00
Weather/Currents	22:00
Total:	24:00



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	02:00	Securing alongside Kaohsiung – Mob MGL0908
02:00	24:00	Securing alongside Kaohsiung – Standing by for WX (TS – Linfa)

GMT Midnight (24:00) Position / Heading:

POS 22 37.10415 N
 120 16.62514 E
HDG: 302 Deg
SPEED: 0.0 Knots

Weather:

Winds E @ 5 Kts
Seas Calm

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Antochiw, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland Antochiw

Daily Summary:

Original Sailing time was set for 02:00 UTC. The Vessels Departure from Kaohsiung has been delayed due to Tropical Storm Linfa which is located ~350 nm WSW of Kaohsiung. Over the last 24 hours the center of TS Linfa has hardly moved. It is predicted to start moving to the NW – WNW and will begin to pickup forward seed. The current track takes the storm center very near to Kaohsiung on the 21st of June. The need estimated sail date for the vessel is the 21st of June at ~12:00 hours. This time will be adjusted accordingly with the Storm track and speed. Also today the Stbd engine has a problem with system that governs the speed of the engine.

Tomorrow:

Continue Standing by for weather – We are working on getting all GPS and Acoustics operational on the Sources. They are also working on power up and down procedures for DigiShot and Syntak, as well as the operational procedures. Engine department will continue to trouble shooting the Stbd Engine Governor issues.

Best Regards,
Robert J Steinhaus



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 19 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/19/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	06/19/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	24:00
Total:	24:00



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Securing alongside Kaohsiung – Standing by for WX (TS – Linfa)

GMT Midnight (24:00) Position / Heading:

POS 22 37.10415 N
 120 16.62514 E
HDG: 302 Deg
SPEED: 0.0 Knots

Weather:

Winds E @ 5 Kts
Seas Calm

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Antochiw, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland Antochiw

Daily Summary:

Continue Standing by for weather – We completed repairs on the Source GPS and Acoustic and have 4 for 4 working. We also continued working on working on power up and down procedures for DigiShot and Syntrak, as well as the operational procedures. Engine department has continued trouble shooting the Stbd Engine Governor issues and has isolated the problem to the Electrical side of the Governor Control.

Tomorrow:

Continue Standing by for weather – Begin repairs of all Birds that developed issues during MG0905 & MGL0906. Conduct Science Party Orientation for watch standing and logging procedures. Also working on getting backup DigiShot computer updated on line, as well as the backup CIU operational.

Best Regards,
Robert J Steinhaus



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 20 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/20/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	06/20/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	24:00
Total:	24:00



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Securing alongside Kaohsiung – Standing by for WX (TS – Linfa)

GMT Midnight (24:00) Position / Heading:

POS 22 37.10415 N
 120 16.62514 E
HDG: 302 Deg
SPEED: 0.0 Knots

Weather:

Winds ESE @ 30-40 Kts
Seas 1-3 ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Antochiw, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland Antochiw

Daily Summary:

Continue Standing by for weather – We began repairs of all Birds that developed issues during MG0905 & MGL0906. Conduct Science Party Orientation for watch standing and logging procedures. Also got backup Digishot CIU and power supplies installed and tested (all operational).

Tomorrow:

Continue Standing by for weather – Making vessel ready to get underway late in the Evening UTC.

Best Regards,
Robert J Steinhaus



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 21 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/21/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	06/21/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	24:00
Total:	24:00



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Securing alongside Kaohsiung – Standing by for WX (TS – Linfa)

GMT Midnight (24:00) Position / Heading:

POS 22 37.10415 N
 120 16.62514 E
HDG: 302 Deg
SPEED: 0.0 Knots

Weather:

Winds ESE @ 30-40 Kts
Seas 1-3 ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Antochiw, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland Antochiw

Daily Summary:

Continue Standing by for weather – Worked on getting vessel ready to get underway most of the day.

Tomorrow:

The plan is to get underway shortly after the day change and head out for Line - MGL0908_01 which will be acquired as a source only line.

Best Regards,
Robert J Steinhaus



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 22 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/22/2009
Prime Sail Line	38.850
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	38.850

Time Activity Analysis

	06/22/2009
MCS Production	04:17
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	3:43
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	14:55
Port Call	0:00
Weather/Currents	1:05
Total:	24:00



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:05	Securing alongside Kaohsiung – Standing by for WX (TS – Linfa)
01:05	08:00	Transit towards Line MGL0908-01
08:00	11:43	Deploying Source and Setting up Tow Points on New Hose Bundles.
11:43	19:43	Continue Transit to Line MGL0908-01
19:43	24:00	OBS Line MGL0908-01 FSP 1007 LSP: 1266 Midnight Shot Point

GMT Midnight (24:00) Position / Heading:

POS 21 25.21 N
 119 23.08 E
HDG: 090 Deg
SPEED: 5.0 Knots SOG

Weather:

Winds SW @ 10 -15 Kts
Seas 3-5 ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Antochiw, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland Antochiw

Daily Summary:

We started the day standing by for weather in Kaohsiung. Shortly after the Day change we got underway and headed for the first survey line – MGL0908-01. A couple of hours before dark we slow down the vessel to start deploying the Energy Source, so as to have it up and operational before dark. During this time we continued transiting towards MGL0908-01. MGL0908-01 was started at 19:34 UTC heading to the east.

Tomorrow:

We will complete MGL0908-01 towards the East and turn towards MGL0908-05. We have also stated receiving weather reports concerning another Tropical Storm that will be moving in to the survey area late on the 25th Local time. The System will be monitored by and a decision to pick up the gear will be made accordingly.

Best Regards,
Robert J Steinhaus



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 22 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	06/22/2009
Prime Sail Line	38.850
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	38.850

Time Activity Analysis

	06/22/2009
MCS Production	04:17
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	3:43
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	14:55
Port Call	0:00
Weather/Currents	1:05
Total:	24:00



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:05	Securing alongside Kaohsiung – Standing by for WX (TS – Linfa)
01:05	08:00	Transit towards Line MGL0908-01
08:00	11:43	Deploying Source and Setting up Tow Points on New Hose Bundles.
11:43	19:43	Continue Transit to Line MGL0908-01
19:43	24:00	OBS Line MGL0908-01 FSP 1007 LSP: 1266 Midnight Shot Point

GMT Midnight (24:00) Position / Heading:

POS 21 25.21 N
 119 23.08 E
HDG: 090 Deg
SPEED: 5.0 Knots SOG

Weather:

Winds SW @ 10 -15 Kts
Seas 3-5 ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello, Zhang

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

We started the day standing by for weather in Kaohsiung. Shortly after the Day change we got underway and headed for the first survey line – MGL0908-01. A couple of hours before dark we slow down the vessel to start deploying the Energy Source, so as to have it up and operational before dark. During this time we continued transiting towards MGL0908-01. MGL0908-01 was started at 19:34 UTC heading to the east.

Tomorrow:

We will complete MGL0908-01 towards the East and turn towards MGL0908-05. We have also stated receiving weather reports concerning another Tropical Storm that will be moving in to the survey area late on the 25th Local time. The System will be monitored by and a decision to pick up the gear will be made accordingly.

Best Regards,
Robert J Steinhaus



Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 23 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

06/23/2009

Prime Sail Line	188.250
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	188.250

Time Activity Analysis

06/23/2009

OBS Production	20.23
OBS Line Change	3:37
OBS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #3

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	20:23	OBS Line MGL0908-01 FSP 1267 LSP: 2522 Source Sub Array number stopped working at 07:19 Line Continued With 3 Sub Arrays operational.
20:23	24:00	Line Change towards Line MGL0908-05 – Trouble Shooting Sub Array 4

GMT Midnight (24:00) Position / Heading:

POS 21 10.80 N
 121 20.23 E
HDG: 154 Deg
SPEED: 5.1 Knots SOG

Weather:

Winds SSE @ 10-15 Kts
Seas 2-4 ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello, Zhang

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

We started the day by continuing production on MGL0908-01 – at ~06:21 Source Sub-array #4 started having power line issues. At ~ 07:19 the Sub array for failed completely. The rest of the line was continued with only three Sub-Arrays operating. Once MGL0908-01 was completed we made a turn to the south towards MGL0908-05. During this line change we retrieved Sub-Arrays 3 & 4 to trouble shoot power problems on Sub Array 4. It was found that the Bell Housing of the Hose Bundle had filled with water as a pressure relief valve had failed. We opened the Bell Housing up for a visual inspection and it was found that both the Primary and Secondary power lines have become disconnected from the 16 pin connector. The techs are currently working on getting spare 16 pin connector wired up to see if we can get power back to the string.

Tomorrow:

We will continue to work on Sub Array 4 and make a turn on to MGL0908-05 to begin production back to the West. We also have another tropical storm going to move in the area. We should start feeling the effects by late tomorrow.

Best Regards,
Robert J Steinhaus



Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 24 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

06/24/2009

Prime Sail Line	125.100
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	125.100

Time Activity Analysis

06/24/2009

OBS Production	13:34
OBS Line Change	10:26
OBS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	10:26	Line Change towards Line MGL0908-05 – Trouble Shooting Sub Array 4
20:23	24:00	OBS Line MGL0908-05 FSP 2264 LSP: 3098 Midnight Shoot Point 3098

GMT Midnight (24:00) Position / Heading:

POS 02 34.01 N
 120 29.77 E
HDG: 270 Deg
SPEED: 5.1 Knots SOG

Weather:

Winds SSE @ 20-25 Kts
Seas 2-4 ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello, Zhang

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

We started the day on Line Change to MGL0908-05. We also continued to trouble shoot Hose Bundle 4 failure. After hours of trying to get it working the decision was made to change it out with the old Hose Bundle 4. They change was made and Sub-Array 4 was back in operation. We started the line MGL0908-05 shortly before midday and continued production though the rest of the day.

Tomorrow:

We will finish up MGL0908-05 ~17:00 UTC and begin recovering the Source to begin transit to Kaohsiung to make repairs to the Stbd Main Engine Governor control, while trying to outrun Tropical Storm Nangka.

Best Regards,
Robert J Steinhaus



Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 25 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

06/25/2009

Prime Sail Line	153.300
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	153.300

Time Activity Analysis

06/25/2009

OBS Production	19:01
OBS Line Change	0:00
OBS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	1:15
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	3:44
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	19:01	OBS Line MGL0908-05 FSP 3099 LSP: 4121
19:01	20:16	Retrieving Energy Source, Maggie, and PAM
20:16	24:00	All Equipment onboard and underway towards Kaohsiung

GMT Midnight (24:00) Position / Heading:

POS 21 09.03 N
 119 19.59 E
HDG: 020 Deg
SPEED: 10.14 Knots SOG

Weather:

Winds SW @ 15-20 Kts
Seas 6 -8 ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello, Zhang

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

We started the day in production on Line MGL0908-05 which continued through the majority of the day. At ~19:01 we completed the line just to the East of 119N and started retrieving the towed equipment to get underway toward Kaohsiung. At the end of day in transit to Kaohsiung to make repairs to Stbd Main Engine governor, before returning to sea to begin the MCS portion of MGL0908.

Tomorrow:

We will transit to Kaohsiung and start repairs on the Stbd Main Engine Governor Control system.

Best Regards,
Robert J Steinhaus



Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 26 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

06/26/2009

Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

06/26/2009

OBS Production	0:00
OBS Line Change	0:00
OBS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	12:47
Port Call	11:13
Weather/Currents	0:00

Ship Repairs to Stbd Main Engine Governor

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	12:47	All Equipment onboard and underway towards Kaohsiung
12:47	24:00	Along Side Kaohsiung, Taiwan for Ship Repairs.

GMT Midnight (24:00) Position / Heading:

POS 22 37.10 N
 120 16.65 E
SPEED: 0 Knots SOG

Weather:

Winds SE @ 10-15 Kts
Seas Calm.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello, Zhang

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

We started the day by continuing the transit to Kaohsiung. We arrived in Kaohsiung and were secured alongside at 12:47 UTC. Shortly after arrival the Governor Tech arrived onboard to begin repairs of the Stbd Main Engine Control systems and work through most of the night.

Tomorrow:

We will continue to make repairs and test out Engine Control systems throughout most of the day and make ready for getting underway shortly before day change (06:00 Local 28th of June)

Best Regards,
Robert J Steinhaus



Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 27 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

06/27/2009

Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

06/27/2009

OBS Production	0:00	
OBS Line Change	0:00	
OBS Extended Line Change	0:00	
Streamer Maintenance	0:00	
Streamer Recovery	0:00	
Streamer Deployment	0:00	
Source Maintenance	0:00	
Source Recovery	0:00	
Source Deploy	0:00	
PAM Deploy	0:00	
PAM Recovery	0:00	
Seismic Air Compressor	0:00	
Hydraulic System	0:00	
Fishing Traffic	0:00	
Turn/Transition	0:00	
IHA/MMO Mitigation	0:00	
Magnetometer Survey	0:00	
Multibeam survey	0:00	
Transit/Mob/Demob	1:56	
Port Call	22:04	Ship Repairs to Stbd Main Engine Governor
Weather/Currents	0:00	

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	22:04	Along Side Kaohsiung, Taiwan for Ship Repairs
22:04	24:00	Repairs Completed in Route to Deployment Area

GMT Midnight (24:00) Position / Heading:

POS 22 23.52 N
 120 07.36 E
SPEED: 11.3 Knots SOG

Weather:

Winds SW @ 15-20 Kts
Seas 2-4ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

We will continue to make repairs and test out Engine Control systems throughout most of the day and make ready for getting underway shortly before day change (06:00 Local "22:00 UTC" 28th of June). The Rest of the day was spent in transit to streamer Deployment Area (20N – 120E)

Tomorrow:

Continue Transit to Deployment Area which we should be on location ~02:00 UTC. We will then begin streamer Deployment. Shortly before sun set we will deploy a Source Sub-Array #1 so as to have a mitigation gun in operation before dark. Once all towed Equipment is deployed we will make our way to MGL0908-01A which is our first MCS line.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 28 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

06/28/2009

Prime Sail Line	90.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	90.500

Time Activity Analysis

06/28/2009

MCS Production	9:56
MCS Line Change	1:33
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	5:58
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	1:07
PAM/Maggie Deploy	0:08
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:59
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	1:55
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	2:17
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	02:17	Transit to Deployment Area
02:17	08:15	Streamer 3 Deployment
08:15	08:23	PAM/Maggie Deployment
08:23	09:22	Repair of Leak on High Pressure Air System
09:22	10:29	Deployment of Gun – Ramping up as Strings are in Position
10:29	10:36	Finishing Ramp up
10:36	12:31	MCS Line MGL0908-TST FSP 2364 LSP 2717 Rejected Due to Spectra / Syntrak Header Transfer Errors
12:31	16:07	MCS Line MGL0908-TST FGSP: 2718 LSP 3393
16:07	17:40	Line Change to MGL0908-01A – During the Line change Gun String #2 was retrieved to due Hose Bundle Blow out.
17:40	24:00	MCS Line MGL0908-01A FSP: 957 LSP: 2092 Line was acquired with only 2 Sub-Arrays due to Hose Bundle 2 Failure. Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 52.72 N
 120 03.12 E
SPEED: 5.7 Knots SOG

Weather:

Winds SW @ 10-15 Kts
Seas 1-3 Ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Summary:

Today was a very eventful day. It started with us in Transit to the Deployment area (20N 120E). Once arrived on location we started to deploy Streamer 3 which went pretty quickly. Shortly before the Streamer Deployment was completed the Engineers Informed me that that when pressuring up the HP Air system a leak was found and they would need to make repairs. These repairs took ~1 hours to complete and then we started deploying the Source Sub-Arrays. On Completion of the Sub-array Deployment we stated MCS Line MGL0908-TST (Transit/Test) while enroute to MGL0908-01A. During the First part of this transit line we were having a problem with Spectra to Sytrak Extended Header Transfer. Trouble shooting of this took about 2 hours to sort out and was final traced to a corrupted Serial Interface Configuration in the Spectra rTNU. The Rest of the line was acquired with good quality day. Once the Test line was complete we made a line change towards MGL0908-01A. During this line change, during rounds it was notice that about 30m behind the vessel Hose Bundle 2 was leaking air. The String was retrieved and taken out of service for MGL0908-01A. During the Line MGL0908-01A Hose Bundle #2 was removed from the reel and made ready to discard on next port call. The Old/Original Hose Bundle 2 was re-installed and string number 2 was made ready to put back into service on the next line change.

Tomorrow:

Continue MCS Line MGL0908-01A, once complete re-deploy Gun String 2 and put it back into service. Then shoot all of MCS Line MGL0908-02 and start on MGL0908-03 before end of day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 29 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

06/29/2009

Prime Sail Line	198.650
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	198.650

Time Activity Analysis

06/29/2009

MCS Production	22:40
MCS Line Change	1:20
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	06:17	MCS Line MGL0908-01A FSP: 2093 LSP 3401
06:17	07:36	Line Change to MGL0908-02 – During the Line Source Sub-Array #2 was put back into service
07:36	10:02	MCS Line MGL0908-02 FSP: 1220 LSP 1677
10:02	24:00	MCS Line MGL0908-03 FSP: 1021 LSP: 3229 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 20 36.23 N
 119 09.00 E
SPEED: 4.2 Knots SOG

Weather:

Winds S @ 5-10 Kts
Seas 1-3 Ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was a good production day. We started out on Line MGL0908-01A with a reduced source volume. At the Completion of line MGL0908-01A we made a shot line change to MGL0908-02. During this line change Source Sub-Array #2 was re-deployed bring the Source back to full volume. We continued down MGL0908-02 until just before midday were we switched to Line MGL0908-03 heading to the south. No other problems to report.

Tomorrow:

Continue MCS Line MGL0908-03, once complete short line change to MGL0908-04 which we should continue throughout the day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 30 Jun 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

06/30/2009

Prime Sail Line	205.800
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	205.800

Time Activity Analysis

06/30/2009

MCS Production	23:58
MCS Line Change	0:02
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	07:11	MCS Line MGL0908-03 FSP: 3230 LSP: 4400
07:11	07:13	Line Change to MGL0908-04
07:13	24:00	MCS Line MGL0908-04 FSP: 1061 LSP: 4007 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 20 41.99 N
 120 25.01 E
SPEED: 5.3 Knots SOG

Weather:

Winds SE @ 0-5 Kts
Seas 1-3 Ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was a good production day. We started out on Line MGL0908-03 on completion we made a shot line change to MGL0908-04 which we continued through end of day. No other problems to report.

Tomorrow:

Continue MCS Line MGL0908-04, once complete short line change to MGL0908-05 which we should continue throughout the day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 1st July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/01/2009

Prime Sail Line	215.980
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	215.980

Time Activity Analysis

07/01/2009

MCS Production	23:57
MCS Line Change	0:03
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	13:33	MCS Line MGL0908-04 FSP: 4008 LSP: 6531
07:11	07:13	Line Change to MGL0908-05
07:13	24:00	MCS Line MGL0908-05 FSP: 1009 LSP: 2805 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 14.18 N
 122 21.48 E
SPEED: 4.5 Knots SOG

Weather:

Winds SE @ 10-15 Kts
Seas 2-4 Ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was a good production day. We started out on Line MGL0908-03 on completion we made a shot line change to MGL0908-05 which we continued through end of day. No other problems to report.

Tomorrow:

Continue MCS Line MGL0908-05, once complete short line change to MGL0908-06 which we should continue throughout the day. While on MGL0908-06 we will pickup Source Sub-Arrays 1 & 2 to make repairs on S1G02 and for other preventative maintenance. Once Sub-Arrays 1 & 2 are re-deployed and in operation we will retrieve Sub-Array 3 to change out the Nose Piece on the Float as it has a small hole and has been taking on water. With these repairs most of MGL0908-06 will be acquired with a less than full volume source.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 2nd July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/02/2009

Prime Sail Line	211.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	211.000

Time Activity Analysis

07/02/2009

MCS Production	23:54
MCS Line Change	0:06
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	10:48	MCS Line MGL0908-05A FSP: 2806 LSP: 4586
10:48	10:51	Line Change to MGL0908-06
10:51	18:52	MCS Line MGL0908-06 FSP: 1015 LSP: 2453
18:52	18:55	Line Change to MGL0908-07
18:55	24:00	MCS/OBS Line MGL0908-07 FSP: 1008 LSP: 1342 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 20 34.00 N
 122 44.13 E
SPEED: 5.4 Knots SOG

Weather:

Winds SE @ 10-15 Kts
Seas 2-4 Ft.

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We Continue MCS Line MGL0908-05, once completed we made a short line change to MGL0908-06. While we were on line MGL0908-06 we picked up Source Sub-Arrays 1 & 2 to make repairs on S1G02 and to do other preventative maintenance. Once Sub-Arrays 1 & 2 were re-deployed and in operation, we retrieved Sub-Array 3 to change out the Nose Piece on the Float as it had a small hole and has been taking on water. With these repairs most of MGL0908-06 was acquired with a less than full volume source. On Completion of MGL0908-06 we made another short line change onto MGL0908-07 which was continued on a new day. No other problems to report.

Tomorrow:

We will continue production on Line MGL0908-07 once complete we will make a short line change on to MGL0908-08 which we will continue throughout the day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 3rd July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/03/2009

Prime Sail Line	210.800
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	210.800

Time Activity Analysis

07/03/2009

MCS Production	23:33
MCS Line Change	0:27
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	17:40	MCS/OBS Line MGL0908-07 FSP: 1343 LSP: 2380
17:40	18:07	Line Change to MGL0908-08
18:07	24:00	MCS Line MGL0908-08 FSP: 1090 LSP: 2195 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 20 13.73 N
 120 46.54 E
SPEED: 4.4 Knots SOG

Weather:

Winds SE @ 15-20 Kts
Seas 2-4 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We Continue MCS Line MGL0908-07 at the start of the day, once completed we made a short line change to MGL0908-08. Only problem to report was in the Middle of Line MGL0908-07 Source Sub-Array #3's Float Parted just aft of the Nose Piece. Sub-Array and Float were retrieved onboard and repairs were made and then redeployed. We remained in production with a reduced source volume until repairs were made.

Tomorrow:

We will continue production on Line MGL0908-08 once complete we will make a short line change on to MGL0908-09 which we will continue throughout the day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 4th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/04/2009

Prime Sail Line	193.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	193.500

Time Activity Analysis

07/04/2009

MCS Production	23:56
MCS Line Change	0:04
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	12:28	MCS Line MGL0908-08 FSP: 2196 LSP: 3996
17:40	18:07	Line Change to MGL0908-09
18:07	24:00	MCS/OBS Line MGL0908-09 FSP: 1049 LSP: 1738 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 25.65 N
 121 06.20 E
SPEED: 5.1 Knots SOG

Weather:

Winds E @ 5-10 Kts
Seas 1-3 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We Continue MCS Line MGL0908-08 at the start of the day, once completed we made a short line change to MGL0908-09. No problems to report

Tomorrow:

We will continue production on Line MGL0908-09 which we will continue throughout the day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 5th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/05/2009

Prime Sail Line	198.900
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	198.900

Time Activity Analysis

07/05/2009

MCS Production	24:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	MCS/OBS Line MGL0908-09 FSP: 1739 LSP: 3064 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 24.99 N
 123 01.30 E
SPEED: 3.5 Knots SOG

Weather:

Winds E @ 0-5 Kts
Seas 1-3 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We Continue MCS/OBS Line MGL0908-09 throughout the day.
No problems to report

Tomorrow:

We will continue production on Line MGL0908-09 once completed we will make a short line change onto MGL0908-10. The first portion of MGL0908-10 will be acquired with a reduced source volume, so as to do some source maintenance on Source Sub-Arrays 3 & 4.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 6th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/06/2009

Prime Sail Line	208.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	208.000

Time Activity Analysis

07/06/2009

MCS Production	23:50
MCS Line Change	0:10
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	08:02	MCS/OBS Line MGL0908-09 FSP: 3065 LSP: 3507
08:02	08:12	Line Change
08:12	24:00	MCS Line MGL0908-10 FSP: 1020 LSP: 2834 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 22 30.57 N
 124 22.44 E
SPEED: 4.9 Knots SOG

Weather:

Winds E @ 0-5 Kts
Seas 1-3 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We started the day on MCS/OBS Line MGL0908-09 throughout once it was complete we made a short line change onto MCS Line MGL0908-10 which continued throughout the day. At the start of Line MGL0908-10 we picked up Sub-Array 3 & 4 for preventive maintenance.

Tomorrow:

We will continue production on Line MGL0908-10 once completed we will make a short line change onto MGL0908-11 which we should continue through most of the day, but shortly before day change we will make another short line change on to MGL0908-12.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 7th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/07/2009

Prime Sail Line	206.700
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	206.700

Time Activity Analysis

07/07/2009

MCS Production	23:45
MCS Line Change	0:15
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:41	MCS Line MGL0908-10 FSP: 3855 LSP: 4154
01:41	01:54	Line Change
01:54	19:35	MCS Line MGL0908-11 FSP: 1041 LSP: 4040
19:35	19:37	Line Change
19:37	24:00	MCS Line MGL0908-12 FSP: 1009 LSP: 1845 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 24 09.76 N
 124 49.51 E
SPEED: 5.5 Knots SOG

Weather:

Winds NE @ 10-15 Kts
Seas 3-5 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We started the day on MCS Line MGL0908-10 once it was complete we made a short line change onto MCS Line MGL0908-11 and when we were complete with MGL0908-11 we made another short line change to MGL0908-12.

Tomorrow:

We will continue production on Line MGL0908-12 once completed we will make an extended line change onto MGL0908-13 to conduct maintenance on Sub-Arrays 1 & 2 which have not been on the vessel for over 6 days. Once the maintenance is complete we will get started on MGL0908-13 which we will continue on for the rest of the day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 8th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/08/2009

Prime Sail Line 176.250

Infill Sail Line 0.000

Reshoot Sail Line 0.000

Total: 176.250

Time Activity Analysis

07/08/2009

MCS Production 23:34

MCS Line Change 0:26

MCS Extended Line Change 0:00

Streamer Maintenance 0:00

Streamer Recovery 0:00

Streamer Deployment 0:00

Source Maintenance 0:00

Source Recovery 0:00

Source Deploy 0:00

PAM/Maggie Deploy 0:00

PAM/Maggie Recovery 0:00

Seismic Air Compressor 0:00

Hydraulic System 0:00

Fishing Traffic 0:00

Turn/Transition 0:00

IHA/MMO Mitigation 0:00

Spectra Navigation 0:00

Magnetometer Survey 0:00

Multibeam survey 0:00

Transit/Mob/Demob 0:00

Port Call 0:00

Weather/Currents 0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	07:25	MCS Line MGL0908-12 FSP: 1846 LSP: 3260
07:25	07:51	Line Change
07:51	24:00	MCS Line MGL0908-13 FSP: 1051 LSP: 3162 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 23 28.47N
 125 29.85 E
SPEED: 3.0 Knots SOG

Weather:

Winds SE @ 20-25 Kts
Seas 3-5 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We started the day on MCS Line MGL0908-12 once it was complete we made a short line change onto MCS Line MGL0908-13. A few hours before the end of line MGL0908-12 we picked up Sub-Arrays 1 & 2 for maintenance and had them re-deployed before the start of MGL0908-13. During the Early morning hours Sub-Array 2 developed an air leak Gun #2. The Leak is not bad enough to shut us down, but as soon as we are out of the priority area north of 23N on this line we will pick the string up and make repairs.

Tomorrow:

We will continue production on Line MGL0908-13 throughout the day. Once we get through the priority area on Line MGL0908-13 North of 23N we will pick up sub-array 2 to make repairs to the air line.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 9th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/09/2009

Prime Sail Line 160.250

Infill Sail Line 0.000

Reshoot Sail Line 0.000

Total: 160.250

Time Activity Analysis

07/08/2009

MCS Production 23:39

MCS Line Change 0:21

MCS Extended Line Change 0:00

Streamer Maintenance 0:00

Streamer Recovery 0:00

Streamer Deployment 0:00

Source Maintenance 0:00

Source Recovery 0:00

Source Deploy 0:00

PAM/Maggie Deploy 0:00

PAM/Maggie Recovery 0:00

Seismic Air Compressor 0:00

Hydraulic System 0:00

Fishing Traffic 0:00

Turn/Transition 0:00

IHA/MMO Mitigation 0:00

Spectra Navigation 0:00

Magnetometer Survey 0:00

Multibeam survey 0:00

Transit/Mob/Demob 0:00

Port Call 0:00

Weather/Currents 0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	22:07	MCS Line MGL0908-13 FSP: 3163 LSP: 6125
22:07	22:28	Line Change
22:28	24:00	MCS Line MGL0908-14 FSP: 1060 LSP: 1303 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 22.01.15 N
 125 25.57 E
SPEED: 4.5 Knots SOG

Weather:

Winds SE @ 20-25 Kts
Seas 4-6 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day however the Sail line Km was down due to the vessel speed being at 3.0 kts SOG for most of the day. We started the day on MCS Line MGL0908-13 once it was complete we made a short line change onto MCS Line MGL0908-14. During the Line Change Sub-Array #2 was retrieved to repair the air leak on Gun #2. On retrieval it was noticed that the Hose Bundle had failed ~25m behind the vessel. As we don't have any more spare hose bundle this means for the remainder of the survey will have a reduced source volume.

Tomorrow:

We will continue production on Line MGL0908-14 throughout most of the day. Shortly before day change we will make a short line change on to MGL0908-15.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 10th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/10/2009

Prime Sail Line	198.650
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	198.650

Time Activity Analysis

07/10/2009

MCS Production	23:57
MCS Line Change	0:03
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	21:39	MCS Line MGL0908-14 FSP: 1304 LSP: 4955
21:39	21:42	Line Change
21:42	00:00	MCS Line MGL0908-15 FSP: 1007 LSP: 1329 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 20 35.47 N
 124 22.84 E
SPEED: 3.7 Knots SOG

Weather:

Winds NE @ 10-15 Kts
Seas 2-4 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We started the day on MCS Line MGL0908-14 once it was complete we made a short line change onto MCS Line MGL0908-15. At the Beginning of MGL0908-15 Gun String #1 was retrieved to repair Gun 1. On re-deployment the String would not power back up. After several minutes of trouble shooting the String was brought online. However the GPS on this string is not working now. It was also noticed shortly before day change that Hose Bundle 3 is showing signs of a failure beginning about 3m behind the vessel.

Tomorrow:

We will continue production on Line MGL0908-15 and once complete we will make a short line change on to MGL0908-16. We have made a homemade repair to the JDR Hose Bundle which had the termination that filled with water. We will be changing out failed hose Bundle 2 and will try to redeploy and see if we were successful in our efforts to get this bundle (JDR) back operational.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 11th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/11/2009

Prime Sail Line 201.300

Infill Sail Line 0.000

Reshoot Sail Line 0.000

Total: 201.300

Time Activity Analysis

07/11/2009

MCS Production 23:33

MCS Line Change 0:27

MCS Extended Line Change 0:00

Streamer Maintenance 0:00

Streamer Recovery 0:00

Streamer Deployment 0:00

Source Maintenance 0:00

Source Recovery 0:00

Source Deploy 0:00

PAM/Maggie Deploy 0:00

PAM/Maggie Recovery 0:00

Seismic Air Compressor 0:00

Hydraulic System 0:00

Fishing Traffic 0:00

Turn/Transition 0:00

IHA/MMO Mitigation 0:00

Spectra Navigation 0:00

Magnetometer Survey 0:00

Multibeam survey 0:00

Transit/Mob/Demob 0:00

Port Call 0:00

Weather/Currents 0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	04:26	MCS Line MGL0908-15 FSP: 1330 LSP: 2039
04:26	04:53	Line Change
21:42	00:00	MCS Line MGL0908-16 FSP: 1097 LSP: 4414 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 54.05 N
 124 52.23 E
SPEED: 3.8 Knots SOG

Weather:

Winds N @ 25-30 Kts
Seas 6-8 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We started the day on MCS Line MGL0908-15 once it was complete we made a short line change onto MCS Line MGL0908-16. After Repairs were made to the JDR Hose Bundle that flooded the termination at the start of the trip were completed. The Repaired Hose Bundle was installed on Gun Winch #2 and at ~09:35 Sub-Array #2 was put back into service on line MGL0908-16. The String Continued to work good throughout the day. No other problems to report.

Tomorrow:

We will continue production on Line MGL0908-16 throughout the day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 11th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/11/2009

Prime Sail Line	198.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	198.000

Time Activity Analysis

07/11/2009

MCS Production	23:58
MCS Line Change	0:02
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	21:49	MCS Line MGL0908-16 FSP: 4415 LSP: 8110
21:49	21:51	Line Change
21:51	00:00	MCS Line MGL0908-17 FSP: 1010 LSP: 1275 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 23 16.57 N
 125 57.40 E
SPEED: 3.8 Knots SOG

Weather:

Winds ESE @ 30-35 Kts
Seas 13-15 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We started the day on MCS Line MGL0908-16 once it was complete we made a short line change onto MCS Line MGL0908-17. Throughout the day the weather continued to deteriorate with the formation of a Tropical Cyclone only a few hundred miles to the SSE of our location. During the overnight Hours the Tropical Wave made it way past us to the south, but as it continued to develop the weather also continued to deteriorate, but at day change it has seem to have level out. Once on Line MGL0908-17 Sub-Arrays 1 & 2 were retrieved for Maintenance.

Tomorrow:

We will continue production on Line MGL0908-17 and once complete should make a short line change onto MGL0908-18.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 13th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/13/2009

Prime Sail Line	172.400
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	172.400

Time Activity Analysis

07/13/2009

MCS Production	23:06
MCS Line Change	0:54
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	11:29	MCS Line MGL0908-17 FSP: 1276 LSP: 2939
11:29	12:23	Line Change
12:23	00:00	MCS Line MGL0908-18 FSP: 1197 LSP: 1785 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 23 45.74 N
 126 17.68 E
SPEED: 5.0 Knots SOG

Weather:

Winds SE @ 10-15 Kts
Seas 4-6 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was good production day. We started the day on MCS Line MGL0908-17 once it was complete we made a short line change onto MCS Line MGL0908-18. As the Tropical Cyclone passed to the south of our location, the weather continued to improve throughout the day. However early in the day we were having trouble keeping the streamer down, due to the large swells 12+ feet. Also at one time or another we had every Source Sub-Array onboard for maintenance. Sub-Array 2 was particularly problematic, as it is having communication issues between the CIU, RCM, and GCM. We think this is due to leakage somewhere in the system which is causing the signal to get corrupted back to the CIU after the shot happens. The CIU reports that random guns on Sub-Array 2 do not fire. We have tested this and we believe these to be faults readings. The String is operational and we will continue to trouble shoot the communication problem as time permits.

Tomorrow:

We will continue production on Line MGL0908-18 and once complete should make a short line change onto MGL0908-19. On line MGL0908-19 we will do further investigation into Sub-Array 2's communication problem.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 14th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/14/2009

Prime Sail Line	183.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	183.500

Time Activity Analysis

07/14/2009

MCS Production	23:19
MCS Line Change	0:41
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	11:03	MCS Line MGL0908-17 FSP: 2983 LSP: 4724
11:03	11:44	Line Change
11:44	00:00	MCS Line MGL0908-18 FSP: 1102 LSP: 3031 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 23 37.87 N
 125 30.32 E
SPEED: 4.3 Knots SOG

Weather:

Winds SE @ 15-20 Kts
Seas 3-5 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We I continue production on Line MGL0908-18 and once completed we made a short line change onto MGL0908-19 which we continued throughout the day. During the Line change we further investigated Sub-Array 2's communication problem. Nothing was resolved problem persist. We pickup Sub-Arrays 3 & 4 at the start of MGL0908-19 to fix an Air Leak on String 4.

Tomorrow:

We will continue production on Line MGL0908-19 and once complete shortly after the day change we will make a short line change onto MGL0908-20 which we will be on for the next few days. We are also watching a Tropical Wave to our southeast which has "The Good Potential for Significant Tropical Cyclone Development in the Next 24 hours". The development and track of this Tropical Wave could affect production in the coming days.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 15th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/15/2009

Prime Sail Line	200.750
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	200.750

Time Activity Analysis

07/15/2009

MCS Production	23:23
MCS Line Change	0:37
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:12	MCS Line MGL0908-19 FSP: 3032 LSP: 3064
00:12	00:13	Line Change
00:13	22:09	MCS Line MGL0908-20 FSP: 1002 LSP: 2888 (100m Shot Spacing)
22:09	22:45	Line Change
22:45	00:00	MCS Line MGL0908-10A FSP: 1010 LSP: 1221 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 22 16.36 N
 124 29.22 E
SPEED: 4.6 Knots SOG

Weather:

Winds E @ 10-15 Kts
Seas 2-4 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We continue production on Line MGL0908-19 and shortly after day change we made a short line change onto MGL0908-20 acquired until 22:00 GMT. At which time we made a line change to the North onto line MGL0908-10A. This was done to avoid the retrieval of the Towed Equipment for TS7W. We will stay on the north end of the survey area, until TS7W passes and then we will head back to the south to pick up on Line MGL0908-20 were we left off.

Tomorrow:

We will continue production on Line MGL0908-10A and once complete we will make a short line change onto MGL0908-11A which we will continue on the rest of the day. If we Complete MGL098-11A before TS7W clears out we will make a line change on to MGL0908-20A and we will remain in the north end of the survey area awaiting the passing of TS7W.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 16th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/16/2009

Prime Sail Line	196.800
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	196.800

Time Activity Analysis

07/16/2009

MCS Production	23:01
MCS Line Change	0:59
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	04:40	MCS Line MGL0908-10A FSP: 1221 LSP: 2005
04:40	04:44	Line Change
04:44	08:28	MCS Line MGL0908-11A FSP: 1011 LSP: 1536
08:28	09:21	Line Change
09:21	18:01	MCS Line MGL0908-32 FSP: 1010 LSP: 2250
18:01	18:03	Line Change
18:03	18:57	MCS Line MGL0908-20A FSP: 1803 LSP: 1857 (Infill/Overlap SP)
18:57	24:00	MCS Line MGL0908-20A FSP: 1858 LSP: 3136 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 58.28 N
 124 25.01 E
SPEED: 2.8 Knots SOG

Weather:

Winds SE @ 30 – 40 Kts
Seas 10-14 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was another good production day. We continue production on Line MGL0908-10A moving further away from TS Molave. After completing line MGL0908-10A we made a short line change on to MGL0908-11A. About 4 hours into MGL0908-11A we received a revised forecast for TS Molave showing it was moving further to the south than originally predicted. At the time the decision was made to head back towards MGL0908-20, so we made a line change back to the south and acquired MGL0908-32 on the way back to MGL0908-20A which we started a few hours before day change.

Tomorrow:

We will continue production on Line MGL0908-20A throughout the day. TS Molave is now to the SSW of our location and is moving away at 9 kts on a course of 285 deg, so we should see the weather condition improving throughout the day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 17th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/17/2009

Prime Sail Line	37.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	37.500

Time Activity Analysis

07/17/2009

MCS Production	6:47	
MCS Line Change	0:00	
MCS Extended Line Change	0:00	
Streamer Maintenance	0:00	
Streamer Recovery	3:17	Do to Maintenance on Engine Cooling systems
Streamer Deployment	0:00	
Source Maintenance	0:00	
Source Recovery	2:26	Do to Weather
Source Deploy	0:00	
PAM/Maggie Deploy	0:00	
PAM/Maggie Recovery	0:00	
Seismic Air Compressor	0:00	
Hydraulic System	0:00	
Engine Room Systems	5:02	
Fishing Traffic	0:00	
Turn/Transition	0:00	
IHA/MMO Mitigation	0:00	
Spectra Navigation	0:00	
Magnetometer Survey	0:00	
Multibeam survey	0:00	
Transit/Mob/Demob	0:00	
Port Call	0:00	
Weather/Currents	6:28	

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	06:47	MCS Line MGL0908-20A FSP: 3136 LSP: 3511
06:47	08:24	Picking up Source Sub-Array 2, 3, & 4 due to Wx
08:24	10:20	Standing by for Wx
10:20	11:09	Picking up Source Sub-Array 1 due to Wx
11:09	15:41	Standing by for Wx
15:41	18:58	Picking up Streamer due to Engine overheating problems
18:58	24:00	Eng Room working on over heating problems & Standing by for Wx

GMT Midnight (24:00) Position / Heading:

POS 21 06.88 N
 124 31.87 E
SPEED: 4.1 Knots SOG

Weather:

Winds SE @ 25 - 30 Kts
Seas 14 - 16 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was not a good day for production. We started the day on line MGL0908-20A we were able to acquire data on for a little over 6 hours. Shortly after noon local time (04:00 GMT) TROPICAL STORM 07W (MOLAVE), began to rapidly increase in strength and by 06:30 it was clear that we would not be able to continue production. We made a turn to the ESE to run into the seas and begin picking up the Source Sub-Arrays (2, 3, & 4). During Retrieval of the Sub-Arrays the Stbd had an emergency shutdown due to a high level alarm Oil mist sensor in the crankcase, which killed the Hydraulics and halted the retrieval for a few min while the engineers got the Stbd Main back online. Once back online the retrieval of the Source Sub-arrays continued. Once Sub-arrays 2, 3, & 4 were onboard we stated to retrieval of PAM, which had quit working. It was found that the PAM streamer had parted and was lost at sea. Sub-Array 1 was left out as a mitigation measure, just in case we were able to re-start production before day light hours. Shortly before dark it was clear from the size of the seas and the weather report that we would not be able to get back into production, so Sub-Array 1 was retrieved. Shortly after Sub-Array 1 was onboard the Stbd Engine had another emergency shutdown due to a high level alarm Oil mist sensor in the crankcase. This time the Engineers keep the engine off line for ~1 hour while they re-calibrated the Oil Mist Sensor. The engine was put back on line and we continued to stand by for weather with the streamer out. At ~15:30 GMT the Bridge informed me that they had to pull back on the pitch because of a cooling water problem with the main

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

engines. At the speed we were able to maintain we could not keep the streamer at an acceptable depth and also after discussion that with the Chief Engineer, it was clear that Streamer would need to be retrieved and repairs done to the cooling system. Streamer Recovery began at 15:41 and was completed at 18:58. During the retrieval of the Head Float on the Lead-in we were found that when the PAM streamer had parted, It had drifted back and became entangled, so the PAM streamer onboard but will need repairs to it tow leader. The rest of the day was spent standing by for Weather and making repairs to the Main Engine Cooling System.

Tomorrow:

Continue Repairs on Main Engine Cooling System and Test the system completely. Once that is done we will start to re-deploy the towed equipment in an effort to get back in production as soon as possible.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 18th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/18/2009

Prime Sail Line	66.100
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	66.100

Time Activity Analysis

07/18/2009

MCS Production	9:12	
MCS Line Change	0:00	
MCS Extended Line Change	0:00	
Streamer Maintenance	0:00	
Streamer Recovery	0:00	
Streamer Deployment	6:55	Due to Maintenance on Engine Cooling systems
Source Maintenance	0:24	String #3 Hose bundle Failure
Source Recovery	0:00	
Source Deployment	0:59	Due to Weather
PAM/Maggie Deploy	0.00	
PAM/Maggie Recovery	0:00	
Seismic Air Compressor	0.00	
Hydraulic System	0:00	
Engine Room Systems	6:30	
Fishing Traffic	0:00	
Turn/Transition	0:00	
IHA/MMO Mitigation	0:00	
Spectra Navigation	0.00	
Transit/Mob/Demob	0.00	
Port Call	0:00	
Weather/Currents	0:00	

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:16	Eng Room working on over heating problems & Standing by for Wx
00:16	06:30	Testing Engine Cooling System – Heading back to deployment area
06:30	13:25	Streamer Deployment
13:25	14:24	Source Deployment
14:24	14:48	Retrieving Sub-Array 3 after Hose Bundle failure
14:48	17:22	MCS/OBS Line MGL0908-20B FSP: 3336 LSP: 3511 (Infill)
17:22	24:00	MCS/OBS Line MGL0908-20B FSP: 3512 LSP: 3998 (Prime) Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 18.27 N
 123 59.22 E
SPEED: 3.9 Knots SOG

Weather:

Winds SE @ 20-25 Kts
Seas 5-7 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

The Day started out with continued Maintenance to the Main Engine Cooling system. Shortly after the day change Test of the repairs was stated and continued for about 6 hours while we steamed back north to the deployment area. Once on site we began deploying the steamer and as soon as the steamer was out we deployed the source. During the Source Deployment Hose Bundle 3 failed ~90m from the Sea End Termination. Sub-Array 3 was retrieved and at 14:48 GMT we began production on Line MGL0908-20B. No other problems to report.

Tomorrow:

We will continue production on MGL0908-20B throughout the day.

Best Regards,
Robert J Steinhaus

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 19th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/19/2009

Prime Sail Line	185.900
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	185.900

Time Activity Analysis

07/19/2009

MCS Production	24:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deployment	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Engine Room Systems	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	MCS/OBS Line MGL0908-20B FSP: 3999 LSP: 5858 (Prime) Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 19 51.74670 N
 123 04.31363 E
SPEED: 4.4 Knots SOG

Weather:

Winds SE @ 5-10 Kts
Seas 2-4 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Good Day of Production on Line MGL0908-20B. No other problems to report.

Tomorrow:

We will continue production on MGL0908-20B at the start of the day. Once complete we will make a short line change onto MGL0908-21, were at the beginning of the line we will pickup Sub-Array 2 for some maintenance.

Best Regards,
Robert J Steinhaus

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 20th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/20/2009

Prime Sail Line	209.150
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	209.150

Time Activity Analysis

07/20/2009

MCS Production	23:54
MCS Line Change	0:06
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deployment	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Engine Room Systems	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	08:39	MCS/OBS Line MGL0908-20B FSP: 5859LSP: 6486
08:39	08:43	Line Change
08:43	18:18	MCS Line MGL0908-21 FSP: 1026 LSP: 2900
18:18	18:20	Line Change
18:20	00:00	MCS Line MGL0908-22 FSP: 1008 LSP: 2063 Midnight Shot Point Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 19 49.98329 N
 121 29.58779 E
SPEED: 4.4 Knots SOG

Weather:

Winds S @ 5-10 Kts
Seas 2-4 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

We had a good day of production. We started the day continuing line MGL0908-20B. Once Complete we made a short line change onto MGL0908-21. Once straight on line we pickup up sub-array #2 which we have been having intermittent communication errors on for a couple of week now and swapped it with sub-array #3. This was done to see if the error continued or stopped, so we could know where to start trouble shooting. The Problem did not show its self when the Sub-Array was re-Deployed. The Source Tech will start going through the old sub-array 2 piece by piece to find the cause of the problem. After completing MGL0908-21 we made a short line change onto MGL0908-22 which continued throughout the rest of the day. No other problems to report.

Tomorrow:

We will continue production on MGL0908-22 throughout the day.

Best Regards,
Robert J Steinhaus

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 21th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/21/2009

Prime Sail Line	191.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	191.500

Time Activity Analysis

07/21/2009

MCS Production	23:38
MCS Line Change	0:22
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deployment	0:00
PAM/Maggie Deploy	0:00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Engine Room Systems	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	23:38	MCS/OBS Line MGL0908-22 FSP: 2064 LSP: 5895
23:38	24:00	Line Change

GMT Midnight (24:00) Position / Heading:

POS 19 47.37 N
 119 39.34 E
SPEED: 4.5 Knots SOG

Weather:

Winds S @ 10 -15 Kts
Seas 3 - 5 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

We had a good day of production. We started the day continuing line MGL0908-22 which we were until shortly before day change were we made a line change towards MGL0908-23.

Tomorrow:

We will start production on MGL0908-23 shortly after day change and continue on it throughout the day.

Best Regards,
Robert J Steinhaus

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 22th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/22/2009

Prime Sail Line	164.300
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	164.300

Time Activity Analysis

07/22/2009

MCS Production	21:53
MCS Line Change	0:09
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deployment	0:00
PAM/Maggie Deploy	0.00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0.00
Hydraulic System	0:00
Engine Room Systems	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Syntrak Recording	0:33
Transit/Mob/Demob	0.00
Port Call	0:00
Weather/Currents	1:25

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	23:38	MCS/OBS Line MGL0908-22 FSP: 2064 LSP: 5895
23:38	24:00	Line Change

GMT Midnight (24:00) Position / Heading:

POS 18 53.23 N
 120 58.49 E
SPEED: 4.8 Knots SOG

Weather:

Winds W @ 15-20 Kts
Seas 3 - 5 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Summary:

Production for the day was pretty good. We started the day on Line Change to MGL0908-23 which started shortly after the day change. Once we complete MGL0908-23 we made a short line change to MGL0908-24. MGL0908-24 was ended early due to the vessel & streamer hitting a very strong rip current (+4kts) which pushed the vessel off line ~2200m before it could be brought back. This same rip current cause the streamer to sink to ~80m at the tail before 2 SRD's (Streamer Recovery Devices) deployed and brought it back to the surface. See below picture which shows both the vessel being pushed off line as well as the streamer shape from the current pushing it.



Once the streamer was brought back under control we made a short line change to MGL0908-25, which we acquired with the last 1km of streamer on the surface because of the deployed SRD's

Tomorrow:

We will continue on MGL0908-25 until we pass 120 35 E, so as to get at least one of the objectives for this line before beginning the retrieval of the towed equipment.

Best Regards,
Robert J Steinhaus

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 23rd July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/23/2009

Prime Sail Line	50.300
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	50.300

Time Activity Analysis

07/23/2009

MCS Production	6:05
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	2:07
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	1:05
Source Deployment	0:00
PAM/Maggie Deploy	0.00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0.00
Hydraulic System	0:00
Engine Room Systems	0:00
Fishing Traffic	1:03
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Syntrak Recording	0:00
Transit/Mob/Demob	13:40
Port Call	0:00
Weather/Currents	0:00

Total: 24:00

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	06:05	MCS Line MGL0908-25 FSP: 1246 LSP: 2252
06:05	07:10	Retrieving Source
07:10	08:13	Standing by for Fishing vessel
08:13	10:20	Retrieving Streamer
10:20	24:00	Transit to Kaohsiung

GMT Midnight (24:00) Position / Heading:

POS 20 36.57 N
 119 47.05 E
SPEED: 8.0 Knots SOG

Weather:

Winds SW @ 10-15 Kts
Seas 3 - 5 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

Today was a short day of production after the Rip Current Incident of yesterday, were the Tail of the Streamer went to ~80m for a few min before the SRD's Deployed and brought it back to the surface. We Started the Day on Line MGL0908-25 with the last 1000m of the streamer on the surface. We completed the line a 06:05 GMT and began retrieval of the towed which we had everything onboard and secure at 10:20 GMT. We got underway for Kaohsiung and continued that way for the rest of the day.

Tomorrow:

We will continue the transit to Kaohsiung. Later in the day we will slow the vessel down and turn streamer one (Damaged during Leg #1) around the right way on its streamer real. We should arrive in Kaohsiung about 22:00 GMT.

Best Regards,
Robert J Steinhaus

To: Office of Marine Operations

Cc: Reports Group

Fm: Robert J Steinhaus – Technician in Charge (LDEO)

Daily Report for 24th July 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

07/24/2009

Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

07/24/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	1:01
Streamer Deployment	2:30
Source Maintenance	0:00
Source Recovery	0:00
Source Deployment	0:00
PAM/Maggie Deploy	0.00
PAM/Maggie Recovery	0:00
Seismic Air Compressor	0.00
Hydraulic System	0:00
Engine Room Systems	0:00
Fishing Traffic	0:00
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Spectra Navigation	0:00
Syntrak Recording	0:00
Transit/Mob/Demob	19:24
Port Call	1:05
Weather/Currents	0:00

Total: 24:00

Taiger Leg #4

MGL0908

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: Robert J Steinhaus – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	06:00	Transit to Kaohsiung
06:00	08:30	Deploying Streamer 1
08:30	09:31	Retrieving Streamer 1
09:31	22:55	Transit to Kaohsiung
22:55	24:00	Along Side Kaohsiung

GMT Midnight (24:00) Position / Heading:

POS 22 37.10 N
 120 16.65 E
SPEED: 0.0 Knots SOG

Weather:

Winds S @ 5-10 Kts
Seas 3 - 5 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Gunn, Steinhaus, Gutierrez, Carson, Martinson, Maxwell, Kuehnast, Eaton, Tatro, Martello,

Science party currently on board:

Hsu, Sibuet, Doo, Reece, Tsai, Yeh, McIntosh, Armada, Eakin, Marquez, Gabo, Ku, Ramos, Lien

Mammal observers currently on board vessel:

Dawe, Caltavuturo, Nicholas, Beland, Antochiw

Daily Summary:

We stated the day in transit to Kaohsiung. At ~06:00 GMT it was obvious that we would have about 6 or 7 hours of extra time in the transit so the decision was made to attempt to flip streamer #1 around on the reel the correct way. This operation went very well with the exception of a local fishing vessel crossing the streamer about 800m behind the vessel while it was on the surface. Just before the vessel crossed we backed down on the streamer causing it to sink and thus letting the vessel pass over without making contact. The streamer was then retrieved without any further incident and the transit to Kaohsiung was continued. We arrived in Kaohsiung just before day change.

Tomorrow:

We will continue the port call in Kaohsiung. Demobilizing Equipment for MGL0908 and bring on supplies and equipment for MGL0909 (Transit to Astoria)

Best Regards,
Robert J Steinhaus