



Taiger transit

MGL0904

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: D Martinson – Technician in Charge (LDEO)

Daily Report for 28 MAR 2009

1. PRODUCTION SUMMARY

No Production

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed Km

03/28/2009

No seismic survey

Total: 0.000

Time Activity Analysis

03/28/2009

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Demob	0:00
Port Call	24:00
Weather	0:00

Total: 24:00

3. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Dockside in Kaohsiung, Taiwan

UTC Midnight (24:00) Position / Heading:

POS	22 37.10336 N
	120 16.64885 E
HDG:	297.0 Deg
SPEED:	0.0 Knots



Taiger transit

MGL0904

R/V Marcus G. Langseth

To: Office of Marine Operations
Cc: Reports Group
Fm: D Martinson – Technician in Charge (LDEO)

Weather:

Winds 5-10 knots
Seas calm

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, Ng, and Eaton

Science party currently on board:

None

Mammal observers currently on board vessel:

None

Daily Summary:

Final system configuration and testing. Begin staging and securing of oncoming science party equipment.

Next 24 hours

Continue system testing and configuration. Safety orientation.

David Martinson



Taiger Leg #1

MGL0905

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 MAR 2009

1. PRODUCTION SUMMARY

No Production

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed Km
03/29/2009
No seismic survey
Total: 0.000

Time Activity Analysis

03/29/2009
Source Survey 0:00
Source Survey/Source Maint. 0:00
Source Maint 0:00
Source Recovery 0:00
Source Deploy 0:00
OBS Recovery 0:00
OBS Deploy 0:00
OBS Delay 0:00
Seismic Air Compressor 0:00
Turn/Transition 0:00
Magnetometer Survey 0:00
Multibeam survey 0:00
Transit/Demob 0:00
Port Call 24:00
Weather 0:00
Total: 24:00

3. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Dockside in Kaohsiung, Taiwan

UTC Midnight (24:00) Position / Heading:

POS 22 37.10336 N
120 16.64885 E
HDG: 297.0 Deg
SPEED: 0.0 Knots



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Weather:

Winds 5-10 knots
Seas calm

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, Ng, and Eaton

Science party currently on board:

None

Mammal observers currently on board vessel:

None

Daily Summary:

Continued Final system configuration and testing. Begin staging and securing Equipment for oncoming science party equipment. Test Bird and Acoustic Lines on Streamer #1. Also prepared all Birds for Steamer #1 & Configured Soft tow point for Streamer #1

Next 24 hours

Continue system testing and configuration. Secure everything for Vessel departure and conduct Safety orientation for Science Party and new Science Crew.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 MAR 2009

1. PRODUCTION SUMMARY

No Production

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed Km 03/30/2009
No seismic survey
Total: 0.000

Time Activity Analysis

03/30/2009
Source Survey 0:00
Source Survey/Source Maint. 0:00
Source Maint 0:00
Source Recovery 0:00
Source Deploy 0:00
OBS Recovery 0:00
OBS Deploy 0:00
OBS Delay 0:00
Seismic Air Compressor 0:00
Turn/Transition 0:00
Magnetometer Survey 0:00
Multibeam survey 0:00
Transit/Demob 0:00
Port Call 24:00
Weather 0:00
Total: 24:00

3. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Dockside in Kaohsiung, Taiwan

UTC Midnight (24:00) Position / Heading:

POS 22 37.10336 N
120 16.64885 E
HDG: 297.0 Deg
SPEED: 0.0 Knots



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Weather:

Winds 5-10 knots
Seas calm

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, Ng, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

Continued Final system configuration and testing. Continued staging and securing Equipment for oncoming science party equipment. Test Bird and Acoustic Lines on Streamer #1. Continue to prepare all Birds for Steamer #1 & Configured Soft tow point for Streamer #1.

We have also received Notice that the IHA/Biological Opinion has not yet been received and as such sailing of the vessel has been delayed.

Next 24 hours

Continue system testing and configuration. Secure everything for Vessel departure and conduct Safety orientation for Science Party and new Science Crew.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 31 MAR 2009

1. PRODUCTION SUMMARY

No Production

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed Km 03/31/2009
No seismic survey
Total: 0.000

Time Activity Analysis

03/30/2009
Source Survey 0:00
Source Survey/Source Maint. 0:00
Source Maint 0:00
Source Recovery 0:00
Source Deploy 0:00
OBS Recovery 0:00
OBS Deploy 0:00
OBS Delay 0:00
Seismic Air Compressor 0:00
Turn/Transition 0:00
Magnetometer Survey 0:00
Multibeam survey 0:00
Transit/Demob 0:00
Port Call 24:00 (22:00 Hr delayed waiting on IHA/ITS)
Weather 0:00
Total: 24:00

3. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Dockside in Kaohsiung, Taiwan

UTC Midnight (24:00) Position / Heading:

POS 22 37.10336 N
120 16.64885 E
HDG: 297.0 Deg
SPEED: 0.0 Knots



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Weather:

Winds 5-10 knots
Seas calm

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, Ng, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

We continued Final system configuration and testing. Continued staging and securing Equipment for oncoming science party equipment. Complete Securing vessel for Departure and conducted Safety briefing/orientation for Science Party and New Science Crew.

Continue Standing by for the IHA/ITS most of the day which was received at ~23:00 GMT.

Next 24 hours

Review IHA/ITS with Science Party, Captain, TIC, Jeff R., and Meagan C. Once Review is complete the vessel will sail from KNN and head to Deployment Area. Once the Deployment area is reached we start deploying the Towed Equipment which I would expect to commence ~8:00 GMT. I would also expect the rest of the day to be spent deploying the Streamer and working on its trim.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 1 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed Km **04/01/2009**
No seismic survey
Total: 0.000

Time Activity Analysis

04/01/2009
Streamer Maintenance 0:00
Streamer Recovery 0:00
Streamer Deployment 10:24
Source Maintenance 0:00
Source Recovery 0:00
Source Deploy 1:19
PAM Deploy 0:41
Seismic Air Compressor 0:00
Turn/Transition/Line Change 0:00
Magnetometer Survey 0:00
Multibeam survey 0:00
Transit/Mob/Demob 5:15
Port Call 0:45
Weather 5:36
Total: 24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:45	Dockside in Kaohsiung, Taiwan
00:45	06:00	Transit to Deployment Area
06:00	15:40	Deploying Streamer
15:40	21:16	Streamer Deployed - Maneuvering to deploy float. Weather Is to bad in the current direction
21:16	22:00	Installing Head Float on Streamer and deploying out on Soft Tow Harness.
22:00	22:41	Deploying PAM
22:41	24:00	Deploying Source



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

GMT Midnight (24:00) Position / Heading:

POS 22 37.10336 N
120 16.64885 E
HDG: 297.0 Deg
SPEED: 0.0 Knots

Weather:

Winds NE @ 35 – 40 knots
Seas 8 – 12 Ft.

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, Ng, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

Reviewed IHA/ITS with Science Party, Captain, TIC, Jeff R., and Meagan C. Left Port and Transited to Deployment Area and once on site started deploying the Streamer. Once the Streamer was deployed we determined the weather was too rough to deploy the PV3000 Head Float, so we had to do some Maneuvering to get around Head Seas and Still stay within the survey area. Once turned around head seas the lead was recovered and PV3000 installed and the Lead-in was deployed onto the soft tow. Directly after that the PAM was deployed and shortly after that deployment of the Source Commenced, which continued to the end of the day.

Next 24 hours

Finish deploying the Source, change the in water geometry of the tow equipment once all looks good we will head for Taiger Line 1-1 which I would expect to start sometime in the afternoon local time.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 2 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed Km</u>	
	04/02/2009
Prime Sail Line	175.350
Infill Sail Line	0.000
Reshoot Sail Line	0.000
	Total: 175.350

Time Activity Analysis

	04/02/2009
MCS Production	18:28
MCS Line Change	0:00
Streamer Maintenance	1:11
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	3:01
PAM Deploy	0:00
Seismic Air Compressor	0:00
Turn/Transition/Line Change	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	1:20
Port Call	0:00
Weather	0:00
	Total: 24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	03:01	Deploying Source
03:01	04:21	Transit to First Line
04:21	22:49	MCS Line – MGL0905_01 FSP 1053 – LSP 4560 Line Ended Early due to Telemetry Error on Streamer 1 Module 3 Causing lose of Data. Sp 4372 to 4560 Rejected.
22:49	24:00	Maneuvering out of High Traffic area to begin Tow Equipment retrieval



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

GMT Midnight (24:00) Position / Heading:

POS 22 43.9 N
 119 28.7E
HDG: 329 Deg
SPEED: 4.5 Knots

Weather:

Winds ENE @ 10 knots
Seas 3 – 5 Ft.

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, Ng, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo

Daily Summary:

We completed the deployment of the towed equipment – in less than ideal condition (WX) and made our way towards our first production line (MGL0905_01) which started at 04:21 GMT. We continued on line until a failure of the streamer cable telemetry lines cause us to shut down at ~22:49 GMT. At which time we began maneuvering out of the southern part of the Taiwan Straits (High Traffic) so we could safely begin the recovery of the towed equipment.

Next 24 hours

Begin the Recovery of the tow equipment so as to trouble shoot the Streamer Telemetry problem. Once Trouble shooting is complete and the problem is fixed, we will redeploy the gear and hopefully get back into production before night fall, if not production will commence after Day light tomorrow morning.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 3 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/03/2009	
Prime Sail Line	40.850
Infill Sail Line	14.900
Reshoot Sail Line	9.450
Total:	65.200

Time Activity Analysis

04/02/2009	
MCS Production	12:08
MCS Line Change	1:14
Streamer Maintenance	0:44
Streamer Recovery	2:54
Streamer Deployment	4:01
Source Maintenance	0:00
Source Recovery	0:46
Source Deploy	1:06
PAM Deploy	0:13
PAM Recovery	0:24
Seismic Air Compressor	0:00
Turn/Transition	0:20
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	00:10	Maneuvering to Pickup Streamer
00:10	00:56	Picking up Source
00:56	01:20	Picking up Pam
01:20	04:14	Picking up Streamer
04:14	04:58	Trouble Shooting Streamer Telemetry Problems
04:58	08:59	Deploying Streamer
08:59	09:12	Deploying PAM
09:12	10:18	Deploying Source
10:18	10:38	Ramping up Source
10:38	15:47	MCS Line – MGL0905_01R FSP 4072 – LSP 4852 Shot Points 4072 – 4370 Infill Shot Points 4371 – 4560 Reshoot Shot Points 4561 – 4852 Prime
15:47	16:47	Line Change to MCS Line – MGL0905_02
16:47	20:10	MCS Line – MGL0905_02 FSP 1159 – LSP 1684 Prime
20:10	20:24	Line Change to MCS Line – MGL0905_03
20:24	24:00	MCS Line – MGL0905_03 FSP 1022 – LSP 1623 Prime SP 1623 Midnight Shot Point

GMT Midnight (24:00) Position / Heading:

POS 22 26.79 N
 119 21.51E
HDG: 165 Deg
SPEED: 4.5 Knots

Weather:

Winds E @ 10 knots
Seas 1 -3 Ft.



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

The First half of the day was spent picking up the Towed Equipment to repair the Telemetry Problem with streamer #1 which was found to be in Active Section 4 and Module 3. Once the repairs were complete we redeployed the Streamer and other towed equipment to begin re-start production on Line MGL0905_01R. We completed this line and moved on to MGL0905_02 which was a shorter line before Moving on to line MGL0905_03 to finish out the Day.

Next 24 hours

Continue Production on MGL0905_03 and once done start on MGL0905_04.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 4 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/04/2009	
Prime Sail Line	40.850
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	65.200

Time Activity Analysis

04/04/2009	
MCS Production	23:30
MCS Line Change	0:30
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	16:33	MCS Line – MGL0905_03 FSP 1624 – LSP 4348 Prime
16:33	17:03	Line Change to MCS Line – MGL0905_04
17:03	24:00	MCS Line – MGL0905_04 FSP 1060 – LSP 2132 Prime SP 1623 Midnight Shot Point

GMT Midnight (24:00) Position / Heading:

POS 21 09.395 N
 119 26.449 E
HDG: 251 Deg
SPEED: 4.5 Knots

Weather:

Winds N @ 5-10 knots
Seas 1 -3 Ft.

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo

Daily Summary:

Good day of Production complete line MGL0905_03 and got stated on MGL0905_04. No Problems to report

Next 24 hours

Continue Production on MGL0905_04 and at the end of the line we will have an extend line change for Source Maintenance. Once the Source Maintenance is completed we will begin shooting on MGL0905_05 which should last us through the rest of the day..

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 5 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/04/2009	
Prime Sail Line	178.700
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	178.700

Time Activity Analysis

04/04/2009	
MCS Production	20:05
MCS Line Change	1:30
Streamer Maintenance	2:25
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	05:14	Continued MCS Line – MGL0905_03 FSP 2133 – LSP 3122 Prime
05:14	06:44	Line Change to MCS Line – MGL0905_05
06:44	09:09	Extended Line Change due to Gun Maintenance
17:03	24:00	MCS Line – MGL0905_05 FSP 814 – LSP 3399 Prime SP 3399 Midnight Shot Point

GMT Midnight (24:00) Position / Heading:

POS 22 03.86 N
 118 44.28 E
HDG: 356 Deg
SPEED: 5 Knots

Weather:

Winds N @ 25 -30 knots
Seas 6 - 8 Ft.

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

Good day of Production complete line MGL0905_04 and got started on MGL0905_05. No Problems to report

Next 24 hours

Continue Production on MGL0905_05. Once we are completed with MGL0905_05 we will shoot MGL0905_06 and get started on MGL0905_07 before the end of the day.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 5 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/05/2009	
Prime Sail Line	178.700
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	178.700

Time Activity Analysis

04/05/2009	
MCS Production	20:05
MCS Line Change	1:30
Streamer Maintenance	2:25
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	05:14	Continued MCS Line – MGL0905_04 FSP 2133 – LSP 3122 Prime
05:14	06:44	Line Change to MCS Line – MGL0905_05
06:44	09:09	Extended Line Change due to Gun Maintenance
09:09	24:00	MCS Line – MGL0905_05 FSP 814 – LSP 3399 Prime SP 3399 Midnight Shot Point

GMT Midnight (24:00) Position / Heading:

POS 22 03.86 N
 118 44.28 E
HDG: 356 Deg
SPEED: 5 Knots

Weather:

Winds N @ 25 -30 knots
Seas 6 - 8 Ft.

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillippe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

Good day of Production complete line MGL0905_04 and got stated on MGL0905_05. No Problems to report

Next 24 hours

Continue Production on MGL0905_05. Once we are completed with MGL0905_05 we will shoot MGL0905_06 and get started on MGL0905_07 before the end of the day.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 6 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/06/2009	
Prime Sail Line	140.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	140.500

Time Activity Analysis

04/06/2009	
MCS Production	18:22
MCS Line Change	2:30
Streamer Maintenance	3:43
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	05:37	Continued MCS Line – MGL0905_05 FSP 3400 – LSP 4310 Prime
05:37	06:14	Line Change to MCS Line – MGL0905_06
06:14	08:36	MCS Line – MGL0905_06 FSP 1032 – LSP 1389 Prime
08:36	09:03	Line Change to MCS Line – MGL0905_07
09:03	17:04	MCS Line – MGL0905_07 FSP 1045 – LSP 2305 Prime
17:04	17:51	Line Change to MCS Line – MGL0905_T07A
17:52	19:38	MCS Line – MGL0905_T07A FSP 1168 – LSP 1442 Prime Reduced Source Volume (3660) for Maintenance of Stbd Source
19:38	20:17	Line Change to MCS Line – MGL0905_08
20:17	20:52	MCS Line – MGL0905_08 FSP 1150 – LSP 1228 Prime – All shot Points rejected due to Telemetry Errors with Str #1 – DNP
20:52	21:22	Picking up Port Source Array due to Telemetry Errors with Str #1
21:22	22:00	Picking up Front End of Streamer to Trouble Shoot Telemetry Errors
22:00	24:00	Trouble Shooting Telemetry Error on Streamer #1

GMT Midnight (24:00) Position / Heading:

POS 21 49'36.8" N
 118 38 31.9" E
HDG: 180 Deg
SPEED: 3.1 Knots

Weather:

Winds N @ 10 - 15 knots
Seas 3 – 5 Ft.



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

We had an ok day of Production complete line MGL0905_05, MGL0905_06, MGL0905_07, MGL0905_T07A, and got stated on MGL0905_08. Line MGL0905_08 was aborted early due to Data Telemetry problems on streamer #1. Once the Source and the Front of the Streamer was onboard we began to trouble shot the problem, which continue through the end of day.

Next 24 hours

We want to complete the repairs to Streamer #1 and redeploy all towed gear so we can start production on MGL0905_08R.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 7 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/07/2009	
Prime Sail Line	86.100
Infill Sail Line	0.000
Reshoot Sail Line	14.550
Total:	100.650

Time Activity Analysis

04/07/2009	
MCS Production	10:00
MCS Line Change	0.00
Streamer Maintenance	4:02
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	6:03
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	3:55
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	01:00	Continued Trouble Shooting Telemetry Error on Streamer #1
01:00	01:40	Trouble Shooting Complete – Deploying Streamer
01:40	05:35	Streamer Deployment Aborted due to System #1 Hydraulic failure
05:35	06:02	Continue Streamer Deployment
06:02	07:41	Deploying Pam, Source, & Maggie – Ramping up Source as Each Sub-Array is deployed.
07:41	07:57	Ramping up Remainder of Source
07:57	09:47	MCS Line – MGL0905_08R FSP 1403 – LSP 1649 Prime Early EOL due to Air Leak on String #2
09:47	14:07	Circle Due to Air Leak String #2
14:07	14:20	MCS Line – MGL0905_08R FSP 1367 – LSP 1402 Prime
14:20	16:02	MCS Line – MGL0905_08R FSP 1403 – LSP 1649 Reshoot
16:02	24:00	MCS Line – MGL0905_08R FSP 1650 – LSP 3091 Prime – Midnight Shoot Point: 3091 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 22 09 47.9 N
 119 29 28.1 E
HDG: 066 Deg
SPEED: 4.4 Knots

Weather:

Winds N @ 15-20 knots
Seas 4 – 6 Ft.



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

The Day started out with us trouble shooting Streamer #1 Telemetry Failure. When all the Trouble shooting was done, we found that we had been fighting two issues. Active Section #40 had been stuck but something while under tow and had multiple areas of skin damage were possible sea water intrusion had accrued. The Second issue was that the Streamer Reel Slip Ring failed as well, which we are now bypassing one we have the streamer fully deployed.

After figure out the streamer issues we were attempting to re-deploy when Hydraulic System #1 failed. With no chance of repair the Engineer manufactured a cross over from system #3 to system #1 to allow us to continue to deploy.

We redeployed all towed Equipment and restarted production on line MGL0905_08R, but shortly after restart an air leak developed on Sub-Array #2. The Line was aborted and the vessel started to Circle around to pick up the line back up after repairs were made.

Sub-Array #2 was repaired the line (MGL0905_08R1) restarted which continued through the end of the day.

Next 24 hours

We will continue production on line MGL0905_08R1. Once completed with this line we acquire MGL0905_09 and get started on Line MGL0905_10 before end of day.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 8 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/08/2009	
Prime Sail Line	127.150
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	127.150

Time Activity Analysis

04/08/2009	
MCS Production	15:26
MCS Line Change	0:00
Streamer Maintenance	8:34
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	08:38	MCS Line – MGL0905_08R FSP 3092 – LSP 4598 Prime SP: 4232 – 4598 OBS Source Shots only due to Streamer Telemetry Issues
08:38	08:47	Retrieving Maggie
08:47	09:46	Turning Offshore to pickup Towed Equipment
09:46	10:55	Retrieving Source – Sub-Array #4 left out and pulled over to Port Side of vessel to keep Mitigation Element (40 cu in) Firing
10:55	11:00	Retrieving PAM
11:00	11:40	Retrieving Streamer
11:40	13:20	Trouble Shooting Streamer Telemetry Issues
13:20	13:50	Deploying Streamer
13:50	14:08	Deploying PAM
14:08	15:38	Deploying Source and Maggie
15:38	15:58	Ramping up Source
15:58	17:12	Maneuvering to Line: MGL0905_10
17:12	24:00	MCS Line – MGL0905_10 FSP 1237 – LSP 2274 Prime – Midnight Shoot Point: 2274 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 22 01 58.9 N
 119 47 19.5 E
HDG: 219 Deg
SPEED: 3.9 Knots

Weather:

Winds N @ 10- 15 knots
Seas 3-5 Ft.



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

We started the day out in production on MGL0905_08R1. Towards the end of that line we lost all telemetry on Streamer #1 again. We continued down line shooting to the remaining OBS on the line. Once that was complete we turned Offshore to begin trouble picking up the towed equipment and started shooting Streamer Telemetry Issues again. The problem was found to be the newly repaired module that was installed in Module 39's position yesterday failed. All towed equipment was then re-deployed and then vessel resumed production on MGL0905_10, which continued throughout the end of day. One Note due to delays in getting the survey started & equipment Issues since getting to sea MGL0905_09 has been skipped.

Next 24 hours

We will continue production on line MGL0905_10 throughout the day. We will also try to replace the Slip Ring on Streamer Reel #1 time permitting.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 9 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	04/09/2009
Prime Sail Line	283.200
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	238.200

Time Activity Analysis

	04/09/2009
MCS Production	24:00
MCS 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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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 Line – MGL0905_10 FSP 2275 – LSP 7039 Prime – Midnight Shoot Point: 7039 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS	24 34.9 N 118 16.6 E
HDG:	226 Deg
SPEED:	4.3 Knots

Weather:

Winds	Ne @ 10- 15 knots
Seas	3-5 Ft.

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo

Daily Summary:

We had a very good day of production as we started the day out in production on MGL0905_10 and that is the way we finished it. No Problems to Report. The Slip Ring on Streamer Reel #1 was changed and will be connected into the system on the next line change.

Next 24 hours

We will continue production on line MGL0905_10 throughout the day.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 10 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/10/2009	
Prime Sail Line	206.250
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	206.250

Time Activity Analysis

04/10/2009	
MCS Production	24:00
MCS 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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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 Line – MGL0905_10 FSP 7040 – LSP 11165 Prime – Midnight Shoot Point: 11165 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 18 59 38.1 N
 117 0 09.73 E
HDG: 217 Deg
SPEED: 4.5 Knots

Weather:

Winds NE @ 10- 15 knots
Seas 1-3 Ft.

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

We had another very good day of production. The day stated with us continuing production on Line MGL0905_10 which last throughout the day. No Problems to Report. .

Next 24 hours

We will continue production on line MGL0905_10 through most of the day. Once Complete we will start on line MGL0905_12 – We are skipping survey line MGL0905_11 due to timing in finishing the remainder of the survey by the 28th of April.

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 11 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/11/2009	
Prime Sail Line	130.450
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	130.450

Time Activity Analysis

04/11/2009	
MCS Production	15:45
MCS Line Change	1:30
MCS Extended Line Change	6:45
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00

LC was extended to due challenge by PRC Navy/CG.



Taiger Leg #1

MGL0905

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	05:46	MCS Line – MGL0905_10 FSP 11165 – LSP 12194
05:46	07:16	MCS Line Change
07:16	14:01	MCS Line Change Extended – Had to change the shooting plan Due to challenge from PRC Navy / CG Vessel.
14:01	24:00	MCS Line – MGL0905_17 FSP 8539 – LSP 6958 Prime – Midnight Shoot Point: 6958 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 19 01 01.9 N
 117 05 13.5 E
HDG: 091 Deg
SPEED: 4.4 Knots

Weather:

Winds NE @ 10- 15 knots
Seas 3-5 Ft.

Comments

Local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillippe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We had good day of production as we day stated the continuing production on Line MGL0905_10 which we had done the previous two days. A couple of hours before the end of Line MGL0905_10 we noticed a ship closing on our position. The Bridge hailed the vessel and it responded by asking for our clearance to work in PRC waters. In shot the discussion continued until they stated we were in violation of the Law of Sea Convention by working in there waters without a permit from PRC. It was then decided that as soon as Line MGL0905_10 we would make a 180 deg turn and head back the way we came. We continued back up to the Northeast until we intersected with MGL0905_17 which we turned on an again began production to the east on a course of 090 Deg through the rest of the day. At the time of writing this report the PRC Vessel was still shadowing us about 3 miles off our port quarter.

I will now post an E-Mail from Mr. Char-Shine Liu.

“Dear colleagues:

As the Langseth was surveying near the end of MGL0905-10 (approaching wp#12 at 116 deg 40' E, 18 deg 37' N) around noon time today (04/11), a Chinese naval vessel appeared (中國海監 81號, or China Sea Surveillance No. 81). She asked for the Langseth to provide permission from the Chinese government for surveying in this area. When Langseth said that she had obtained permission from the US State Department and the Taiwanese government to conduct the survey, the Chinese Navy ship began to claim that the Langseth entered Chinese water and violated the United Nation's Law of the Sea. The Langseth has sent message to the US State Department, and we have changed our survey plan by not going toward wp#14 (which is in the direction of the mainland China), instead turning back along MGL0905-10 and then when she gets to the line MGL0905-17 at a new waypoint 17A (117 deg 1' E and 19 deg N), we will turn east and begin seismic survey along MGL0905-17 toward wp#17 (i.e. heading eastward toward Phillipine). We hope this will make the Chinese naval vessel goes away and buy us some time for the US State Department to sort out things. I also hope that our government could obtain some understandings with the Chinese government regarding the Langseth survey around Tung-Sha area (since the Chinese have notified us through the "Mainland Affairs Council" regarding their intention to conduct geophysical survey in the area east and southeast of the Tung-Sha island).

Our plan is that we will reverse the seismic survey order by shooting along the eastern half of MGL0905-17 (from wp#17A to wp#17), then continue to MGL0905-15 (from wp#16 to wp#15, this is an OBS line), and then to MGL0905-14 (wp#15 to wp#14), and then back to MGL0905-12 (from wp#14 to wp#12) to pick up what we have left (i.e. the western part of MGL0905-17). But we are not sure if further intervention by the Chinese Navy ship would occur, especially when the Langseth sails toward the South China Sea continental margin area again on MGL0905-15. Hope MOI and other administrations in Taiwan could help on solving things out.”

On a good note the replacement slip ring in streamer reel #1 is up an fully operational.

Next 24 hours

We will continue production on line MGL0905_17 through most of the day. Once Complete we will start on line MGL0905_15 – We are skipping survey line MGL0905_16 due to timing in finishing the remainder of the survey by the 28th of April.



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Regards,
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 12 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/12/2009	
Prime Sail Line	210.250
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	210.250

Time Activity Analysis

04/12/2009	
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 Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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 Line – MGL0905_17 FSP 6957 – LSP 6958 Prime – Midnight Shoot Point: 6958 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 19 00.5 N
 119 50.1 E
HDG: 091 Deg
SPEED: 5.2 Knots

Weather:

Winds E @ 5-10 knots
Seas 1- 3 Ft.

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:

We had another good day of production as we day stated the continuing production on Line MGL0905_17 and continued that way throughout the day. No problems to report.

*** Note: China Sea Surveillance No. 81 still following us. The vessel has been staying further then 2 miles away from us except one time yesterday when she came within 0.2 nm of our port side. Contact was made and she was asked to give us more room with she did. Also ~12:00 local time yesterday a Sea Surveillance Aircraft made some flybys on the vessel.

Next 24 hours

We will continue production on line MGL0905_17 until ~16:30 (local). Once Complete we will start on line MGL0905_15. Source Maintenance will be done while transiting from Line MGL0905_17 to MGL0905_15. We are skipping survey line MGL0905_16 due to timing in finishing the remainder of the survey before the 28th of April.

Regards,

Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 13 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/13/2009	
Prime Sail Line	136.750
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	136.750

Time Activity Analysis

04/13/2009	
MCS Production	15:09
MCS Line Change	1:30
MCS Extended Line Change	2:24 Due to Line Position and Currents
Streamer Maintenance	4:57
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	08:59	MCS Line – MGL0905_17 FSP 2754 – LSP 1120
08:59	10:29	MCS Line Change to MGL0905_15
10:29	15:06	Source Maintenance
15:06	15:26	Source Ramp Up
15:26	17:50	Line Change Extended due to Line Position and Currents
17:50	24:00	MCS Line – MGL0905_15 FSP 9911 – LSP 8810 Prime – Midnight Shoot Point: 8810 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 19 04.8 N
 119 57.4 E
HDG: 322 Deg
SPEED: 5.6 Knots

Weather:

Winds SW @ 5-10 knots
Seas 1- 3 Ft.

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillippe Schurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo

Daily Summary:

We had another good day of production as we day stated the continuing production on Line MGL0905_17. We completed MGL0905_17 and made a turn to the south towards line MGL0905_15, during the transit to this line we picked up Source Sub-arrays 1, 2, & 3 to perform some maintenance. The Sub-Arrays were redeployed and we continued the line change to MGL0905_15 which we stated production on in the evening. No problems to report.

During the Morning time the PRC vessel that was stopped following us. No other information to report on that.

Next 24 hours



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

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

We will continue production on line MGL0905_15 throughout the day

Best Regards

Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/14/2009	
Prime Sail Line	200.450
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	200.450

Time Activity Analysis

04/14/2009	
MCS Production	20:38
MCS Line Change	3:22
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 Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	12:25	MCS Line – MGL0905_15 FSP 8809 – LSP 6324
12:52	14:09	MCS Line Change to MGL0905_19
14:09	20:20	MCS Line – MGL0905_19 FSP 9524 – LSP 10796
20:20	22:25	MCS Line Change to MGL0905_20
22:25	24:00	MCS Line – MGL0905_20 FSP 986 – LSP 1238 Prime – Midnight Shoot Point: 1238 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 19 56 27.6 N
 119 37 37.5 E
HDG: 352 Deg
SPEED: 4.3 Knots

Weather:

Winds Calm
Seas Calm

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillippe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We had another good day of production as we day we continued production on Line MGL0905_15. We shoot up line MGL0905_15 until we were about 2 miles from 119E and started a turn to the north. We intersected with line MGL0905_20 in the middle of the line and shoot it back to the east. On completion MGL0905_20 was made and outside turn and headed to the North on MGL0905_21 which we continued through the end of the day.

*** Note: During the day we received new orders from OMO stating that we were not to go west of 119E. This meant that we would not be able to finish any of the remaining line to the west of 119E. The PI's have chosen some new lines for us to shoot to fill up the remainder to the cruise. These new lines were originally scheduled to be acquired in MGL0906 and MGL0908, but have now been allocated to MGL0905

Next 24 hours

We will continue production on line MGL0905_20 throughout most of the day. Near the end of the say we will acquire MGL0905_21 and get stated on MGL0905_22.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/15/2009	
Prime Sail Line	222.850
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	222.850

Time Activity Analysis

04/15/2009	
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 Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	Continued MCS Line – MGL0905_20 FSP 1239 – LSP 5696 Prime – Midnight Shoot Point: 5696 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS	21 55.7 N 119 18.5 E
HDG:	352 Deg
SPEED:	4.8Knots

Weather:

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

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo

Daily Summary:

We had another very good day of production as we day we continued production on Line MGL0905_20 throughout the day.

At ~00:00 Local time the PRC Vessel Sea Surveillance 83 took up station about 5 miles behind us. It followed us throughout the night until shortly after dawn it pickup speed (15+ kts) and moved up our Stbd Side about 2 miles off the streamer. It has now taken up Station ~1 nm off the Stbd Side of the vessel were it is pacing us. We have tried to contact him via VHF ch16, to make sure he gives a good CPA but no response.

Next 24 hours

We will continue production on line MGL0905_20 throughout most of the day. Near the end of the day we will acquire MGL0905_21 and get stated on MGL0905_22.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/16/2009	
Prime Sail Line	195.700
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	195.700

Time Activity Analysis

04/16/2009	
MCS Production	23:24
MCS Line Change	0:36
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	09:22	Continued MCS Line – MGL0905_20 FSP 5697 – LSP 7332
09:22	09:56	Line Change
09:56	12:16	MCS Line – MGL0905_21 FSP 1076 – LSP 1450
12:16	12:18	Line Change
12:18	24:00	MCS Line – MGL0905_22 FSP 1008 – LSP 2913 Prime – Midnight Shoot Point: 2913 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 43 54.71 N
 119 09 08.85 E
HDG: 170 Deg
SPEED: 5 Knots

Weather:

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

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We had another very good day of production as we day we continued production on Line MGL0905_20 before midday made a short line change on to MGL0905_21 which was a short line. MGL0905_21 was completed just after midday and we started production on line MGL0905_21 which lasted throughout the day.

At ~20:25 it was observed by the bridge that the PRC Vessel Sea Surveillance 83 had changed in course was heading towards the Streamer. At 20:33 the Captain gave the order for the streamer cable to be dived to let the PRC vessel pass safely over it. During this whole the bridge crew had been trying to make radio contact with the vessel. Just before crossing the streamer the PRC Vessel made a sharp 180 deg turn and maneuvered away from the streamer in the direction it had come. Once the PRC vessel was well clear the streamer was brought back up to Operational Depth. During this whole time the PRC Vessel did not respond to the hails of the Captain on the radio.

Next 24 hours

We will continue production on line MGL0905_22 until midmorning. At the end of line MGL0905_22 we will pick up all the source sub-arrays for maintenance. Once the Maintenance is complete well start production on MGL0905_23 to the East.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

04/17/2009

Prime Sail Line	141.250
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	141.250

Time Activity Analysis

04/17/2009

MCS Production	14:47
MCS Line Change	1:30
MCS Extended Line Change	0:00
Streamer Maintenance	7:43
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	03:47	Continued MCS Line – MGL0905_22 FSP 2914 – LSP 3685
03:47	05:17	Line Change
05:17	13:00	Extended Line Change for Source Maintenance
13:00	24:00	MCS Line – MGL0905_23 FSP 881 – LSP 2935 Prime – Midnight Shoot Point: 2935 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 25 29.74 N
 119 52 49.90 E
HDG: 084 Deg
SPEED: 3.8 Knots

Weather:

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

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrop, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We continued production on Line MGL0905_22 at start of the day, which was complete at 03:47. We continued to the South while doing Source Maintenance. All four Sub-Arrays were gone though and repaired as needed. At 13:00 we started production on Line MGL0905_23 to the east which last throughout the day.

PRC Vessel Sea Surveillance 83 continued to following us though out the day and still no radio communication.

Next 24 hours

We will continue production on MGL0905_23 to the East.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Report for 18 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/18/2009	
Prime Sail Line	180.700
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	180.700

Time Activity Analysis

04/18/2009	
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 Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	04:43	Continued MCS Line – MGL0905_23 FSP 2395 – LSP 2996 Prime
04:43	04:46	Line Change
04:46	17:21	MCS Line – MGL0905_23A FSP 3000 – LSP 4870 Prime Seismic Recording Length Changed to 18sec on Clients request
17:21	17:22	Line Change
17:22	24:00	MCS Line – MGL0905_23B FSP 4874 – LSP 6017 Prime Seismic Recording Length Changed Back to 15sec on Clients request. Midnight Shoot Point: 6017 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 26 01.44 N
 121 27 38.64 E
HDG: 084 Deg
SPEED: 4.0 Knots

Weather:

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

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillippe Schnurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We continued production on Line MGL0905_23 at start of the day. As our speed over ground the Client (PI) requested that we switch the Seismic Recording Length from 15sec to 18sec. We ended line MGL0905_23 and Started up MGL0905_23A which the seismic recording is at 18sec. Later in the evening the vessel speed over ground started to pickup and as such the Seismic Recording length need to be lowered back to 15 sec to avoid missing shot points. MGL0905_23A was ended and a new line MGL0905_23B was stated this line continued throughout the day at a seismic recording of 15 Sec

PRC Vessel Sea Surveillance 83 continued to following us though out the day and still no radio communication. The ROC Coast Guard vessel that is following the PRC Vessel was change out with a ROC Navy vessel.

Next 24 hours

We will continue production on MGL0905_23B to the East the day.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/19/2009	
Prime Sail Line	100.150
Infill Sail Line	5.400
Reshoot Sail Line	0.000
Total:	105.550

Time Activity Analysis

04/19/2009	
MCS Production	15:38
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	08:22
Total:	24:00



Taiger Leg #1

MGL0905

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	14:09	Continued MCS Line – MGL0905_23B FSP 6017 – LSP 7905 Prime Early EOL to Strong Current Pushing vessel offline and tangling Source Sub-Arrays 2 & 3
14:09	16:28	Retrieving Source Sub-Arrays 1, 2, & 3 due to tangling after going Through very strong current
16:28	22:31	Circle Back to MCS Line MGL0905_23C while making repairs to Source Sub-Arrays 1, 2, & 3 (Minor Damage on String 1, Strings 2 & 3 took the most damage including a collapsed Section of float right behind the Nose piece.
22:31	23:13	MCS Line – MGL0905_23C FSP 7797 – LSP 7905 Infill
23:13	24:00	MCS Line – MGL0905_23C FSP 7906 – LSP 8012 Prime Midnight Shoot Point: 8012 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 25.84 N
 121 35.56 E
HDG: 089.1 Deg
SPEED: 4.1 Knots

Weather:

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

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturro

Daily Summary:



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

We continued production on Line MGL0905_23B at start of the day. At 12:26 while on Line MGL0905_23B we encounter a very strong current which pushed the vessel offline very fast. This Current also causes Source Sub-Arrays 2 & 3 to become entangled. These two Sub-Arrays were disabled so they could be retrieved, while data was still be acquired with a reduced source Volume (Sub-Arrays 1 & 2) After 1.5 hours of trying to get them untangled the line was called so we could maneuver the vessel and other towed gear around to try and untangle them. After another 3 hours we were finally able to get Sub-Arrays 2 & 3 untangled an onboard. As soon as the Stings 2 & 3 were onboard we started a turn back to the West to Circle around on the line and pickup were we had left off. Stings 2 & 3 had quite a bit of damage from the tangle, mostly firing line jumpers and ropes. The noticeable damage was to Strings #3 float. The section right behind the Nose Piece had sustained a few holes and would have to be replaced.

All repairs were no completed by the as we circled around an were back online, so the line, MGL0905_23C was stated with a reduced volume, as repairs to String #3 were still ongoing. However shortly after the start string #3 was deployed and the Source was brought up to full volume and production continued on Line MGL0905_23C continued into the new day.

PRC Vessel Sea Surveillance 83 & ROC Navy Vessel has both departed the Area.

Next 24 hours

We will continue production on MGL0905_23C to the East the day.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
04/20/2009	
Prime Sail Line	196.600
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	196.600

Time Activity Analysis

04/20/2009	
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 Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	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 #1

MGL0905

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	17:20	Continued MCS Line – MGL0905_23C FSP 8022 – LSP 10890 Prime
17:20	17:47	Line Change
17:47	24:00	MCS Line – MGL0905_24 FSP 1144 – LSP 2208 Prime Midnight Shoot Point: 2208 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 20 56" 23.177' N
 123 43" 07.045' E
HDG: 196 Deg
SPEED: 5 Knots

Weather:

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

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio

Daily Summary:



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

We continued production on Line MGL0905_23B at start of the day, once completed we made a shot line change onto MGL0905_24. String #2 was brought onboard at the start of Line MGL0905_24 to do some maintenance work related to the strings tangling the night before. Once the maintenance was complete the String #2 was redeployed and the source brought up to full volume. No other problems to report.

Next 24 hours

We will continue production on MGL0905_24 through about mid day, before turn on Line MGL0905_25 back to the west which will acquire through the rest of the day.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	04/21/2009
Prime Sail Line	186.900
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	186.900

Time Activity Analysis

	04/21/2009
MCS Production	23:55
MCS Line Change	0:05
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
Turn/Transition	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 #1

MGL0905

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	05:12	Continued MCS Line – MGL0905_24 FSP 2209 – LSP 3140 Prime
05:12	05:17	Line Change
05:17	24:00	MCS Line – MGL0905_25 FSP 1013 – LSP 3820 Prime Midnight Shoot Point: 3820 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 20 34" 44.612' N
 122 08" 53.515' E
HDG: 270 Deg
SPEED: 2.5 Knots

Weather:

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

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We continued production on Line MGL0905_24 at start of the day, once completed we made a shot line change onto MGL0905_25 which continued throughout the day. No other problems to report.

Next 24 hours

We will start the day on Line MGL0905_25, but shortly after we will shut down while we are transiting the Luzon Straits just to the north of Batan Island so as to comply with IAH Section 10 Paragraph r. Once on the west side of the Luzon Straits we will again ramp up the Source and re-start production on Line MGL0905_25A, leaving a 50km gap where we did not shot the source in the sensitive area.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	04/22/2009
Prime Sail Line	183.400
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	183.400

Time Activity Analysis

	04/22/2009
MCS Production	16.57
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
Turn/Transition	0:00
IHA/MMO Mitigation	7:03
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 #1

MGL0905

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	00:09	MCS Line – MGL0905_25 FSP 3821 – LSP 3837 Prime
00:09	07:03	Stopped Acquiring Data due to IHA restrictions around Batan Island
07:03	24:00	MCS Line – MGL0905_25A FSP 4484 – LSP 8136 Prime Midnight Shoot Point: 8136 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 20 34" 38.175' N
 120 04" 42.046' E
HDG: 264 Deg
SPEED: 4 Knots

Weather:

Winds ENE @ 20-25 Kts
Seas 7-9 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We continued production on Line MGL0905_25 at start of the day. However shortly after the start of day we End Line MGL0905_25 so as to comply with IHA Section 10 Paragraph r which restricted the acquisition of Seismic Data in the Area of Batan Island in the Luzon Striates during the months of February to April. We transited through the area with our sound source secured until we were on the West Side of the Luzon Striates and restarted the Line MGL0905_25A. No Problems to Report.

Next 24 hours

We will continue production on MGL0905_25A through mid day. On completion shortly before we reach 119E we will make a turn to the north on to line MGL0905_26. MGL0905_26 is a very short line and once it is completed we will make a turn to the North East onto line MGL0905_27 which we will continue throughout the rest of the day.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	04/23/2009
Prime Sail Line	186.700
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	186.700

Time Activity Analysis

	04/23/2009
MCS Production	23:29
MCS Line Change	0:31
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
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 #1

MGL0905

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	13:09	MCS Line – MGL0905_25A FSP 8137 – LSP 10341 Prime
13:09	13:36	Line Change
13:36	14:51	MCS Line – MGL0905_26 FSP 1028 – LSP 1252 Prime
14:51	14:55	Line Change
14:55	24:00	MCS Line – MGL0905_27 FSP 1017 – LSP 2323 Prime Midnight Shoot Point: 2323 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 20 58" 44.258' N
 119 33" 02.416' E
HDG: 062 Deg
SPEED: 3.3 Knots

Weather:

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

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We continued production on Line MGL0905_25A at start of the day, which we completed after midday. We pick up a short transit line (MGL0905_26) on our way to MGL0905_27. We continued Production on MGL0905_27 throughout the rest of the day. No Problems to report.

Next 24 hours

We will continue production on MGL0905_27 throughout the day.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	04/24/2009
Prime Sail Line	204.350
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	204.350

Time Activity Analysis

	04/24/2009
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 Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	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 #1

MGL0905

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	21:26	MCS Line – MGL0905_27 FSP 2324 – LSP 5937 Prime
21:26	21:36	Line Change
14:55	24:00	MCS Line – MGL0905_28 FSP 1027 – LSP 1501 Prime Midnight Shoot Point: 1501 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 21 47" 02.359' N
 121 18" 30.252' E
HDG: 090 Deg
SPEED: 5.0 Knots

Weather:

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

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturio



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We continued production on Line MGL0905_27 at start of the day, which we completed late in the evening. We a short line change to MGL0905_28, which continued Production the rest of the day. No Problems to report.

Next 24 hours

We will continue production on MGL0905_28 throughout most of the day. At the end of the line we will make a outside turn and pickup the source to do some maintenance, which should be the last extended line change of the trip.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	04/25/2009
Prime Sail Line	120.750
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	120.750

Time Activity Analysis

	04/25/2009
MCS Production	13:37
MCS Line Change	1:30
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	3:27
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
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	5:26
Total:	24:00



Taiger Leg #1

MGL0905

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	09:09	MCS Line – MGL0905_28 FSP 1502 – LSP 3341 Prime
09:09	10:39	Line Change
10:39	14:06	Extended Line Change for Source Maintenance
14:06	18:34	MCS Line – MGL0905_29 FSP 601 – LSP 1177 Prime Early EOL due to Source Arrays 1 & 2 and 3 &4 getting tangled Together
18:34	19:21	Untangling Source Arrays 1 & 2 and 3 &4
19:21	20:06	Retrieving All Source Arrays
20:06	24:00	Down for Weather, Maneuvering vessel to get on West Side of Taiwan to get in calmer waters

GMT Midnight (24:00) Position / Heading:

POS 21 58' 07.088" N
 121 53' 12.244" E
HDG: 243 Deg
SPEED: 4.5 Knots

Weather:

Winds NE @ 30-35 Kts
Seas 10-14 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillippe Schnurle, Kuo-Chen Hao, Steffen Saustrop, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We continued production on Line MGL0905_28 at start of the day, which we completed late in Morning. We conducted an outside turn to do some maintenance on Source Sub-Arrays 1 & 2 and once complete we stated on line MGL0905_29. Throughout the day the weather had been increasing. During Line MGL0905_29 due the Sea Condition both outboard Sub-Arrays' broke their separation ropes casing them to fall in and tangle with the Sub-Array strings. After a short time we were able to get them untangled and began retrieving all Sub-Arrays onboard due to the still increasing Weather. The Sub-arrays were retrieved onboard (very little damage) and at the end of Day were maneuvering the vessel southwest to get around to the west side of Taiwan to get on Leeward Side of the Island. The Forecast is for the Seas to increase throughout the day and into tomorrow.

Next 24 hours

We will continue maneuvering the vessel southwest to get around to the west side of Taiwan to be a break from the weather. Once on the West Side of Taiwan if the weather permits we will re-deploy the Source and see about doing some small line that keep us in the Leeward Side of the Island.

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	04/26/2009
Prime Sail Line	12.750
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	12.750

Time Activity Analysis

	04/26/2009
MCS Production	2:56
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
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	21:04
Total:	24:00



Taiger Leg #1

MGL0905

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	08:25	Down for Weather, Maneuvering vessel to get on West Side of Taiwan to get in calmer waters
08:25	08:45	Deploying Source Array 4 to shot Mitigation Gun during night time hours
08:45	09:36	Trouble Shooting Air Leak in House Bundle #4
09:36	09:50	Retrieving Source Array 4 due to air leak in Hose Bundle
09:50	10:12	Deploying Source Array 1 to shot Mitigation Gun during night time hours
10:12	21:04	Transiting to MGL0905_34 on West Side of Taiwan to get in calmer waters
21:04	24:00	MCS-Line MGL0905_34 FSP: 748 LSP: 1003 – Prime Midnight Shot Point 1003 – Line continued on new day.

GMT Midnight (24:00) Position / Heading:

POS 21 52' 35.153" N
 120 35' 38.162" E
HDG: 348 Deg
SPEED: 3 Knots

Weather:

Winds E @ 25-30 Kts
Seas 5-7 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturro



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We started the day down for weather and transiting to the West Side of Taiwan to get in some calmer waters to work. Before the sun went down we wanted to get a mitigation gun in the water, because it was clear that we would make it to our intended line before Sun Up. Source Sub-Array #4 was deployed and as soon as it was aired up to operational pressure, the house bundle failed. The failure point was ~183 from the Sea end Termination and 127m from the ships end termination. Source Sub-Array #4 was retrieved and Source Sub-Array #1 was deployed. We continued transiting to the West Side of Taiwan though out the evening and shortly before day change we deployed Source Sub-Array #2 & 3 to begin Production on Line MGL0905_34, which we did at 21:04. No other major Problems to report.

Next 24 hours

We will continue shooting on MCS line MGL0905_34. We will start of removing Source Bundle #4 from it winch and chopping it into manageable pieces to be disposed of during the next port call. Once Source Bundle #4 is off the winch we will re-install the used spare Bundle we have onboard, so that the full source can be used during Taiger Leg #2

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	04/27/2009
Prime Sail Line	12.750
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	12.750

Time Activity Analysis

	04/27/2009
MCS Production	2:56
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
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	21:04
Total:	24:00



Taiger Leg #1

MGL0905

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	08:25	Down for Weather, Maneuvering vessel to get on West Side of Taiwan to get in calmer waters
08:25	08:45	Deploying Source Array 4 to shot Mitigation Gun during night time hours
08:45	09:36	Trouble Shooting Air Leak in House Bundle #4
09:36	09:50	Retrieving Source Array 4 due to air leak in Hose Bundle
09:50	10:12	Deploying Source Array 1 to shot Mitigation Gun during night time hours
10:12	21:04	Transiting to MGL0905_34 on West Side of Taiwan to get in calmer waters
21:04	24:00	MCS-Line MGL0905_34 FSP: 748 LSP: 1003 – Prime Midnight Shot Point 1003 – Line continued on new day.

GMT Midnight (24:00) Position / Heading:

POS 21 52' 35.153" N
 120 35' 38.162" E
HDG: 348 Deg
SPEED: 3 Knots

Weather:

Winds E @ 25-30 Kts
Seas 5-7 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Sastrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvaturro



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We started the day down for weather and transiting to the West Side of Taiwan to get in some calmer waters to work. Before the sun went down we wanted to get a mitigation gun in the water, because it was clear that we would make it to our intended line before Sun Up. Source Sub-Array #4 was deployed and as soon as it was aired up to operational pressure, the house bundle failed. The failure point was ~183 from the Sea end Termination and 127m from the ships end termination. Source Sub-Array #4 was retrieved and Source Sub-Array #1 was deployed. We continued transiting to the West Side of Taiwan though out the evening and shortly before day change we deployed Source Sub-Array #2 & 3 to begin Production on Line MGL0905_34, which we did at 21:04. No other major Problems to report.

Next 24 hours

We will continue shooting on MCS line MGL0905_34. We will start of removing Source Bundle #4 from it winch and chopping it into manageable pieces to be disposed of during the next port call. Once Source Bundle #4 is off the winch we will re-install the used spare Bundle we have onboard, so that the full source can be used during Taiger Leg #2

Best Regards
Robert J Steinhaus



Taiger Leg #1

MGL0905

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 April 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM

04/28/2009

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

Time Activity Analysis

04/27/2009

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	6:51
Turn/Transition	0:00
IHA/MMO Mitigation	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	17:09
Port Call	0:00
Weather/Currents	0:00
Total:	24:00



Taiger Leg #1

MGL0905

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	00:25	Continue Retrieving Source
00:25	01:27	Picking up Streamer (~1.2km)
01:27	03:40	Maneuvering to Pickup Next Segment Streamer
03:40	03:54	Picking up Streamer (~.6km)
03:54	05:15	Maneuvering to Pickup Next Segment Streamer
05:15	06:51	Picking up Streamer (~4.2 km)
06:51	24:00	All equipment onboard – Transiting to Sea Buoy to Pickup Pilot

GMT Midnight (24:00) Position / Heading:

POS 22 41' 50.8" N
 119 12' 15.8" E
HDG: 089 Deg
SPEED: 3.8 Knots

Weather:

Winds NE @ 20-25 Kts
Seas 2-5 Ft

Comments local time is UTC+8

Science technical staff currently on board:

Steinhaus, Martello, Gutierrez, Goodick, Cucchiara, Harpour, Martinson, Gunn, Zhang, Tatro, and Eaton

Science party currently on board:

Char-Shine Liu, Francis Taming Wu, Phillipe Schnurle, Kuo-Chen Hao, Steffen Saustrup, San-Hsiung Chung, Chi-Hsun Hsieh, Mei-Yu Chen, Po An Tsai, Yi-Ching Yeh, Cheng-Yi Chen, Ho-Han Hsu, Shih-Wei Liao, Hau-Ting Hung,

Mammal observers currently on board vessel:

MacTavish, Ming-Chang Liu, Dawe, Hurley, Calvatturo



Taiger Leg #1

MGL0905

R/V Marcus G. Langseth

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

Daily Summary:

We started the Day retrieving the remainder of the towed equipment still attached to the vessel. Once onboard we made our way over to the Chase Vessel that was tied off to the Tailbuoy. He made his way over to us and passed a line over. We got the Tailbuoy onboard and then started retrieving the streamer, it was shortly clear that we did not have the entire streamer attached. We retrieved ~600m that was still attached to the Tailbuoy. We gave instruction to the Chase Vessel to move to the east and see if they could see any of the SRD's on the surface. They shortly came back and said they have the SRD bags in site. We made our way over towards their location. We launch the MOB to attach a rope to the steamer and return to the ship. They did this and passed the line to the steamer deck and we began retrieving this portion of the streamer. It was clear from the start this was a much longer length of streamer and when all was said and done all the Streamer and Attached Devices (Bird, and Acoustics Pods) were recovered onboard.

Summary:

Streamer: All 6km back onboard. It looks like we had about 8 section that were damaged and will need to be scrapped. The rest look Mechanically Sound. There is 4200m on the reel backward, so we will have to wait until we can get it on the reel the right way before we can test and check it electrically.

Bird: 22 of 22 birds back, but some are damage and we will have to test them all to see what their status is.

Acoustic Pods: 5 out of 5 back onboard, 1 with a damaged latch assembly.

SRD's: We had ~ 18 go off out of the 22 we had on the streamer and only one t was lost at sea.

Tailbuoy: In good shape and will be ready to deployed on leg #2

Lead, Head Stretch, and STU: All are in good working order

Tail Stretch & Tail Swivel: Both are in good working order.

We are currently underway towards port and will pick up the Pilot at ~00:00 GMT tomorrow morning.

Next 24 hours

We will Pickup Pilot right around day change and hope to be secured along side in Kaohsiung by ~01:30 GMT

Best Regards
Robert J Steinhaus