



Port Call -- Astoria, OR

MGL0909

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 Aug 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	08/19/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	08/19/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	24:00
Weather/Currents	0:00
Total:	24:00



Port Call -- Astoria, OR

MGL0909

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	Port call, Astoria, OR

GMT Midnight (24:00) Position / Heading:

POS	46 11.41991 N 123 51.61458 W
HDG:	075.7 Deg
SPEED:	0.0 Knots

Weather:

Winds	SW @ 5.5 Kts
Seas	Calm. In harbor.

Comments local time is UTC+8

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Gunn, Gutierrez, Martinson, McKiernan, Ng, Spoto.

Science party currently on board:

None.

Mammal observers currently on board vessel:

Dawe, Nicolas, Calvatturo, Beland, Graham

Daily Summary:

Science Party and OBS techs came aboard to set up equipment. Science party's concerns over gate access led them to elect to stay at the hotel for an additional night.

Scripps OBS equipment delivered.

Gun umbilicals swap in progress.

Next 24 hours

Mobilization for MGL0910, IHA conference call, cruise startup meeting, safety orientation.

Anthony Johnson



Mobilization

MGL0910

R/V Marcus G. Langseth

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

Daily Report for 20 Aug 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

<u>Sailed KM</u>	
	08/20/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
	Total: 0.000

Time Activity Analysis

	08/20/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	24:00
Weather/Currents	0:00
	Total: 24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Port call, Astoria, OR

GMT Midnight (24:00) Position / Heading:

POS 46 11.41991 N



Mobilization

MGL0910

R/V Marcus G. Langseth

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

123 51.61458 W
HDG: 075.7 Deg
SPEED: 0.0 Knots

Weather:

Winds SW @ 13.8 Kts
Seas Calm. In harbor.

Comments local time is UTC+7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas

Daily Summary:

Science Party and OBS techs move on board. Outstanding science tech crew arrive. IHA conference call. Science party orientation.

Complete installation and set up of OBS equipment and science party equipment. Prepare for sea.

Prepare seismic, nav and other instrumentation.

Science shipments received:

All intended -- SCI09-106, SCI09-108, SCI09-111, SCI09-112, SCI09-117, SCI09-120, SCI09-125, SCI09-128, SCI09-129, SCI09-35, SCI09-146.

Also received Fedex shipment.

Next 24 hours

Offload streamer sections for storage/repair. Gravity tie. Prepare lifting equipment for acoustic test casts. Prepare OBS handling equipment. Sail for MGL0910.

Anthony Johnson



ETOMO

MGL0910

R/V Marcus G. Langseth

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

Daily Report for 21 Aug 2009

1. STATISTICAL ANALYSIS (DECIMAL HOURS)

Line Charge Analysis

Sailed KM	08/21/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	08/21/2009
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	0:00
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	24:00
Weather/Currents	0:00
Total:	24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Port call, Astoria, OR

GMT Midnight (24:00) Position / Heading:

POS 46 11.41991 N



ETOMO

MGL0910

R/V Marcus G. Langseth

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

123 51.61458 W
HDG: 075.5 Deg
SPEED: 0.0 Knots

Weather:

Winds N @ 9.5 Kts
Seas Calm. In harbor.

Comments local time is UTC+7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas

Daily Summary:

Sailing delayed. Prepare 15m depth ropes. Offload damaged streamer sections for shipment to storage/repair. Prepare acoustic cast line. Gravity tie. Secure all equipment and prepare for sea.

Next 24 hours

Sail for MGL0910. Begin transit to work site.

Anthony Johnson



ETOMO

MGL0910

R/V Marcus G. Langseth

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

Daily Report for 22 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM	08/22/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	08/22/2009
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	6:11
Port Call	17:49
Weather/Currents	0:00
Total:	24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	17:49	Port call, Astoria, OR
17:49	19:53	Departing Astoria, OR
19:53	24:00	Transit to survey area

GMT Midnight (24:00) Position / Heading:



ETOMO

MGL0910

R/V Marcus G. Langseth

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

POS 46 25.172 N
 125 00.984 W
HDG: 292 Deg
SPEED: 9.3 Knots

Weather:

Winds N @ 10 Kts
Seas Calm. In harbor.

Comments local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Continue preparing acoustic cast line. Continue preparing 15m depth ropes. Secure all equipment and prepare for sea. Depart for MGL0910.

Next 24 hours

Arrive waypoint W1, begin acoustic release test cast. Rosette will be deployed twice to 2500m.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 23 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM	08/23/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	08/23/2009
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
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	18:03
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	5:57
Total:	24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	18:03	Transit to survey area
18:03	20:53	Acoustic release rosette test – Cast #1 – Deploy
20:53	21:41	Acoustic release rosette test – Cast #1 – Testing
21:41	24:00	Acoustic release rosette test – Cast #1 – Recovery



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

GMT Midnight (24:00) Position / Heading:

POS 47 33.263 N
 128 49.411 W
HDG: 292 Deg
SPEED: 9.3 Knots

Weather:

Winds NW @ 7 Kts
Seas 6-8'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Transit to work area. Arrive waypoint W01 and begin test cast for the Scripps acoustic releases.

Next 24 hours

Complete acoustic test cast #1. Reload rosette, begin and complete test cast #2. Begin OBS deployment.

Anthony Johnson



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MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 24 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM	08/24/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	08/24/2009
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
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
Acoustic release cast	5:58
OBS Deployment	18:02
Total:	24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:08	Acoustic release rosette test – Cast #1 – Recovery
00:08	01:30	Acoustic release rosette test – Swapping releases
01:30	02:13	Removing damaged section of line – 750m from lower end



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R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

02:13	03:24	Acoustic release rosette test – Cast #2 – Deploy to 2000m
03:24	04:01	Acoustic release rosette test – Cast #2 – Testing
04:01	05:17	Acoustic release rosette test – Cast #2 – Recover
05:17	05:43	Maneuver for OBS deployment
05:43	05:58	Delay – A-Frame hydraulics unresponsive
05:58	24:00	Deploy OBS instruments: 21 instruments

GMT Midnight (24:00) Position / Heading:

POS 47 54.1105 N
 129 09.7821 W
HDG: 095.3 Deg
SPEED: 6.3 Knots

Weather:

Winds W @ 20 Kts
Seas 6-9'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete acoustic test cast #1. Reload rosette. Remove 750m from lower end of cast line to avoid using section damaged when first cast jumped sheave. Begin and complete test cast #2. Begin OBS deployment. Deploy instruments W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, S14, S36, S50, S51, S64, S63, S62, S61, S54, S43, S59.

Next 24 hours

Continue OBS deployments.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 25 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

<u>Sailed KM</u>	
08/25/2009	
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

08/25/2009	
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
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
Acoustic release cast	0:00
OBS Deployment	21:59
Test OBS Deployment	2:01
Total:	24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:13	Deploying OBS
00:13	00:13	OBS dropped, OBS S52
00:13	00:34	OBS acoustic release tests



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

00:34	01:37	Transit to next site
01:37	01:51	Deploying OBS
01:51	01:51	OBS dropped, OBS W58
01:51	01:59	OBS acoustic release tests
01:59	02:33	Transit to next site
02:33	02:35	Deploying OBS
02:35	02:35	OBS dropped, OBS S16
02:35	02:42	OBS acoustic release tests
02:42	03:19	Transit to next site
03:19	03:25	Deploying OBS
03:25	03:25	OBS dropped, OBS W23
03:25	03:35	OBS acoustic release tests
03:35	04:14	Transit to next site
04:14	04:22	Deploying OBS
04:22	04:22	OBS dropped, OBS W22
04:22	04:30	OBS acoustic release tests
04:30	05:09	Transit to next site
05:09	05:19	Deploying OBS
05:19	05:19	OBS dropped, OBS W21
05:19	05:27	OBS acoustic release tests
05:27	06:18	Transit to next site
06:18	06:27	Deploying OBS
06:27	06:27	OBS dropped, OBS W20
06:27	06:35	OBS acoustic release tests
06:35	07:14	Transit to next site
07:14	07:22	Deploying OBS
07:22	07:22	OBS dropped, OBS W19
07:22	07:36	OBS acoustic release tests
07:36	08:39	Transit to next site
08:39	08:52	Deploying OBS
08:52	08:52	OBS dropped, OBS S15
08:52	08:58	OBS acoustic release tests
08:58	09:20	Stay on site for experimental OBS deployments
09:20	09:20	Experimental OBS dropped, OBS S15A
09:20	10:22	OBS acoustic release tests
10:22	10:22	Experimental OBS dropped, OBS S15B
10:22	10:53	OBS acoustic release tests
10:53	10:53	Experimental OBS dropped, OBS S15C
10:53	10:59	OBS acoustic release tests
10:59	12:32	Transit to next site
12:32	12:32	OBS dropped, OBS S57
12:32	12:40	OBS acoustic release tests
12:40	13:40	Transit to next site
13:40	13:49	Deploying OBS
13:49	13:49	OBS dropped, OBS S42
13:49	13:53	OBS acoustic release tests
13:53	14:42	Transit to next site
14:42	14:50	Deploying OBS
14:50	14:50	OBS dropped, OBS S29
14:50	14:54	OBS acoustic release tests
14:54	15:52	Transit to next site
15:52	16:00	Deploying OBS
16:00	16:00	OBS dropped, OBS S11
16:00	16:04	OBS acoustic release tests



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MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

16:04	17:12	Transit to next site
17:12	17:21	Deploying OBS
17:21	17:21	OBS dropped, OBS S30
17:21	17:24	OBS acoustic release tests
17:24	18:16	Transit to next site
18:16	18:19	Deploying OBS
18:19	18:19	OBS dropped, OBS S43
18:19	18:24	OBS acoustic release tests
18:24	18:55	Transit to next site
18:55	19:03	Deploying OBS
19:03	19:03	OBS dropped, OBS S44
19:03	19:08	OBS acoustic release tests
19:08	19:29	Transit to next site
19:29	19:39	Deploying OBS
19:39	19:39	OBS dropped, OBS S45
19:39	19:43	OBS acoustic release tests
19:43	20:10	Transit to next site
20:10	20:28	Deploying OBS
20:28	20:28	OBS dropped, OBS S37
20:28	20:31	OBS acoustic release tests
20:31	21:10	Transit to next site
21:10	21:24	Deploying OBS
21:24	21:24	OBS dropped, OBS S31
21:24	21:27	OBS acoustic release tests
21:27	22:20	Transit to next site
22:20	22:32	Deploying OBS
22:32	22:32	OBS dropped, OBS S12
22:32	22:36	OBS acoustic release tests
22:36	23:21	Transit to next site
23:21	23:39	Deploying OBS
23:39	23:39	OBS dropped, OBS S32
23:39	23:43	OBS acoustic release tests
23:43	00:00	Transit to next site

GMT Midnight (24:00) Position / Heading:

POS 47 54.3753 N
 129 01.7643 W
 HDG: 303.7 Deg
 SPEED: 7.2 Knots

Weather:

Winds W @ 5 Kts
 Seas 4-6'

Comments

local time is UTC-7

Science technical staff currently on board:



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Continue OBS deployments. 24 instruments deployed, 3 of them experimental Scripps equipment.

Next 24 hours

Complete OBS deployments. 22 instruments outstanding, one of them an experimental Scripps unit. Transit to source deploy point. Source deployment will require adjustment of tow points and offsets.

Heavy weather expected on Thursday.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 26 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM	08/26/2009
Prime Sail Line	0.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

	08/26/2009
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	4:05
PAM Deploy	0:05
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	0:10
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	19:14
Test OBS Deployment	0:26
Total:	24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:12	Transit to next OBS deploy site
00:12	00:19	Deploying OBS
00:19	00:19	OBS dropped, OBS S38



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

00:19	00:24	OBS acoustic release tests
00:24	00:52	Transit to next site
00:52	01:05	Deploying OBS
01:05	01:05	OBS dropped, OBS S33
01:05	01:09	OBS acoustic release tests
01:09	01:41	Transit to next site
01:41	01:53	Deploying OBS
01:53	01:53	OBS dropped, OBS S39
01:53	01:57	OBS acoustic release tests
01:57	02:27	Transit to next site
02:27	02:40	Deploying OBS
02:40	02:40	OBS dropped, OBS S46
02:40	03:06	OBS acoustic release tests
03:06	03:06	OBS dropped, OBS S46A
03:06	03:14	OBS acoustic release tests
03:14	03:51	Transit to next site
03:51	04:02	Deploying OBS
04:02	04:02	OBS dropped, OBS W60
04:02	04:11	OBS acoustic release tests
04:11	04:46	Transit to next site
04:46	04:57	Deploying OBS
04:57	04:57	OBS dropped, OBS S55
04:57	05:10	OBS acoustic release tests
05:10	05:38	Transit to next site
05:38	05:49	Deploying OBS
05:49	05:49	OBS dropped, OBS S47
05:49	06:05	OBS acoustic release tests
06:05	06:33	Transit to next site
06:33	06:43	Deploying OBS
06:43	06:43	OBS dropped, OBS S40
06:43	06:50	OBS acoustic release tests
06:50	07:09	Transit to next site
07:09	07:24	Deploying OBS
07:24	07:24	OBS dropped, OBS S34
07:24	07:31	OBS acoustic release tests
07:31	08:04	Transit to next site
08:04	08:17	Deploying OBS
08:17	08:17	OBS dropped, OBS S13
08:17	08:20	OBS acoustic release tests
08:20	08:48	Transit to next site
08:48	08:59	Deploying OBS
08:59	08:59	OBS dropped, OBS W35
08:59	09:13	OBS acoustic release tests
09:13	09:42	Transit to next site
09:42	09:51	Deploying OBS
09:51	09:51	OBS dropped, OBS S41
09:51	09:56	OBS acoustic release tests
09:56	10:16	Transit to next site
10:16	10:26	Deploying OBS
10:26	10:26	OBS dropped, OBS S49
10:26	10:30	OBS acoustic release tests
10:30	10:54	Transit to next site
10:54	11:04	Deploying OBS
11:04	11:04	OBS dropped, OBS S48



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

11:04	11:08	OBS acoustic release tests
11:08	11:27	Transit to next site
11:27	11:36	Deploying OBS
11:36	11:36	OBS dropped, OBS S56
11:36	11:40	OBS acoustic release tests
11:40	12:37	Transit to next site
12:37	12:46	Deploying OBS
12:46	12:46	OBS dropped, OBS S17
12:46	12:50	OBS acoustic release tests
12:50	13:26	Transit to next site
13:26	13:46	Deploying OBS
13:46	13:46	OBS dropped, OBS S17
13:46	13:54	OBS acoustic release tests
13:54	14:35	Transit to next site
14:35	14:43	Deploying OBS
14:43	14:43	OBS dropped, OBS S17
14:43	14:49	OBS acoustic release tests
14:49	15:22	Transit to next site
15:22	15:37	Deploying OBS
15:37	15:47	Delayed
15:47	15:47	OBS dropped, OBS S17
15:47	15:56	OBS acoustic release tests
15:56	16:24	Transit to next site
16:24	16:34	Deploying OBS
16:34	16:34	OBS dropped, OBS S17
16:34	16:38	OBS acoustic release tests
16:38	17:03	Transit to next site
17:03	17:30	Delayed
17:30	17:39	Deploying OBS
17:39	17:39	OBS dropped, OBS S17
17:39	17:47	OBS acoustic release tests
17:47	17:47	Delayed
17:47	18:09	Transit to next site
18:09	19:08	Deploying OBS
19:08	19:20	Deploying OBS
19:20	19:20	OBS dropped, OBS S17
19:20	19:30	OBS acoustic release tests
19:40	19:50	Maneuver for source deploy
19:50	19:55	PAM deploy
19:55	24:00	Source deploy

GMT Midnight (24:00) Position / Heading:

POS 48 37.8030 N
 129 12.7208 W
 HDG: 179.8 Deg
 SPEED: 3.7 Knots

Weather:

Winds SSE @ 25 Kts
 Seas 6-9"



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Continue and complete OBS deployments. 22 instruments deployed, 1 of them experimental Scripps equipment. Begin source deploy. Re-grip new umbilicals, and move float tow grips for string one and two.

Next 24 hours

Complete source deployment and reconfigure. Survey line 5. Begin survey line 4.

Heavy weather expected on Thursday.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 27 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

<u>Sailed KM</u>	
08/27/2009	
Prime Sail Line	110.040
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

08/27/2009	
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	16:19
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	3:46
Source Recovery	0:00
Source Deploy	1:40
PAM Deploy	0:00
PAM Recovery	0:00
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	2:15
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Total:	24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:40	Deploy seismic source



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

01:40	03:29	Source maintenance
03:29	05:08	Maneuver to SOL
05:08	21:15	Source-only Line – MGL0910_05 FSP 1280 – LSP 1022 Prime
21:15	22:12	Source maintenance
22:12	22:48	Turn/Transition
22:48	23:48	Source maintenance
23:48	00:00	Source-only Line – MGL0910_04 FSP 2017 – LSP 2020 Prime
		Midnight Shot Point: 2020 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 47 32.5918 N
 129 21.2070 W
HDG: 4.5 Deg
SPEED: 3.6 Knots

Weather:

Winds S @ 20 Kts
Seas 9-11"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturro, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete source deployment. Recover string 3 for maintenance. Survey source only line MGL0910_05. Maggie deployed during Mgl0910_05. Complete MGL0910_05. Extended turn for source maintenance, begin MGL0910_04.

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Next 24 hours

Complete line 4, transition to line 3. Begin line 3.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 28 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

08/28/2009

Prime Sail Line	160.440
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

08/28/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	22:19
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	1:41
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Total:	24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	14:31	Source survey – MGL0910_04 FSP 2020 – LSP 2261 Prime
14:31	15:08	Turn/Transition
15:08	18:05	Source survey – MGL0910_37 FSP 3021 – LSP 3080 Prime
18:05	19:09	Turn/Transition
19:09	00:00	Source survey – MGL0910_03 FSP 4264 – LSP 4182 Prime Midnight Shot Point: 4182 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 48 07.2363 N
 128 50.3408 W
HDG: 188.8 Deg
SPEED: 4.1 Knots

Weather:

Winds SSW @ 8 Kts
Seas 6-8"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturio, Dawe, Graham, Nicolas, Meyer

Daily Summary:

PAM streamer damaged during turn on to MGL0910_04, recovered. Complete line 4. Second PAM streamer deployed. Transition on to MGL0910_37, a line of opportunity, as we transit to the eastern side of the survey area for the second set of 100km lines. Source maintenance during line 37. Begin survey line MGL0910_03.

Next 24 hours

Complete line 3, transition to line 2, begin line 2.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 29 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

<u>Sailed KM</u>	
08/29/2009	
Prime Sail Line	160.440
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

08/29/2009	
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	16:20
Deg. Survey/Source Maintenance	3:53
Streamer Maintenance	2:32
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	1:15
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Total:	24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	02:27	Source survey: MGL0910_03 FSP 4182 – LSP 4137 Prime



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

02:27	03:29	Source maintenance
03:29	07:22	Degraded survey: MGL0910_38 FSP 5140 – LSP 5208 Prime
07:22	08:47	Source maintenance
08:47	18:58	Source survey: MGL0910_03R FSP 6199 – LSP 6137 Reshoot
08:47	18:58	Source survey: MGL0910_03R FSP 6138 – LSP 6021 Prime
18:58	20:13	Turn/Transition
20:13	23:55	Source survey: MGL0910_02 FSP 7018 – LSP 7058
23:55	00:00	Source maintenance

GMT Midnight (24:00) Position / Heading:

POS 47 44.6817 N
 128 47.9079 W
HDG: 4.2 Deg
SPEED: 3.8 Knots

Weather:

Winds NW @ 14 Kts
Seas 3-4"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Survey along line 3, premature EOL for source maintenance. Survey line of opportunity with three strings along line 38. Complete maintenance and finish line 3. Turn on to line 2. Survey line 2, premature EOL for source maintenance. Source maintenance into new day.

Next 24 hours

Complete survey line 2. Change depth ropes for 9m source depth. Redeploy and continue survey.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 29 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

<u>Sailed KM</u>	
08/29/2009	
Prime Sail Line	160.440
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	0.000

Time Activity Analysis

08/29/2009	
MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	16:20
Deg. Survey/Source Maintenance	3:53
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	2:32
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	1:15
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Total:	24:00

2. TIME SUMMARY

Start	End	Description/Comments
00:00	02:27	Source survey: MGL0910_03 FSP 4182 – LSP 4137 Prime



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

02:27	03:29	Source maintenance
03:29	07:22	Degraded survey: MGL0910_38 FSP 5140 – LSP 5208 Prime
07:22	08:47	Source maintenance
08:47	18:58	Source survey: MGL0910_03R FSP 6199 – LSP 6137 Reshoot
08:47	18:58	Source survey: MGL0910_03R FSP 6138 – LSP 6021 Prime
18:58	20:13	Turn/Transition
20:13	23:55	Source survey: MGL0910_02 FSP 7018 – LSP 7058
23:55	00:00	Source maintenance

GMT Midnight (24:00) Position / Heading:

POS 47 44.6817 N
 128 47.9079 W
HDG: 4.2 Deg
SPEED: 3.8 Knots

Weather:

Winds NW @ 14 Kts
Seas 3-4"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturro, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Survey along line 3, premature EOL for source maintenance. Survey line of opportunity with three strings along line 38. Complete maintenance and finish line 3. Turn on to line 2. Survey line 2, premature EOL for source maintenance. Source maintenance into new day.

Next 24 hours

Complete survey line 2. Change depth ropes for 9m source depth. Redeploy and continue survey.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 30 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

08/30/2009

Prime Sail Line	84.000
Infill Sail Line	0.000
Reshoot Sail Line	9.660
Total:	93.660

Time Activity Analysis

08/30/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	13:24
Deg. Survey/Source Maintenance	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	3:30
Source Recovery	0:00
Source Deploy	7:06
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
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Total:	24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	03:30	Source maintenance
03:30	05:24	Source survey – MGL0910_02R FSP 8035 – LSP 8058 Reshoot
05:24	16:54	Source survey – MGL0910_02R FSP 8059 – LSP 8259 Prime
16:54	00:00	Source Deploy – Adjust source to 9m depth

GMT Midnight (24:00) Position / Heading:

POS 48 15.9249 N
 128 48.4885 W
HDG: 213 Deg
SPEED: 3.8 Knots

Weather:

Winds N @ 14 Kts
Seas 4-6"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete source maintenance, return to line 2. Complete line 2. Recover string 1s, 2, swap out 15m depth ropes for 9m depth ropes, redeploy. Recover strings 3, 4, swap out 15m depth ropes for 9m depth ropes. Begin redeploy of strings 3, 4.

Next 24 hours

Complete source deployment. Begin inner survey grid, 19 survey line 60 Km each. First line will be MGL0910_07.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 31 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

08/31/2009

Prime Sail Line	84.000
Infill Sail Line	0.000
Reshoot Sail Line	9.660
Total:	93.660

Time Activity Analysis

08/31/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	21:14
Deg. Survey/Source Maintenance	0:00
Streamer Maintenance	0:58
Streamer Recovery	0:00
Streamer Deployment	0:24
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	1:17
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:07

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:24	Source Deploy – Adjust source to 9m depth
00:24	07:38	Source survey – MGL0910_07 FSP 9163 – LSP 9021 Prime
07:38	08:17	Turn/Transition
08:17	08:30	Source survey – MGL0910_10 FSP 10020 – LSP 10024 Prime
08:30	08:37	Equip Failure – Nav
08:37	15:21	Source survey – MGL0910_10A FSP 11026 – LSP 11156 Prime
15:21	15:59	Turn/Transition
15:59	23:02	Source survey – MGL0910_13 –FSP 12157 – LSP 12021 Prime
23:02	00:00	Source maintenance

GMT Midnight (24:00) Position / Heading:

POS 47 38.6268 N
 129 11.9796 W
HDG: 261 Deg
SPEED: 4.3 Knots

Weather:

Winds N @ 21 Kts
Seas 3-5"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturio, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete re-deploy of source after tow depth adjustment. Survey line 07, begin line 10. Navigation system error cause line to be immediately aborted and restarted as 10A. Complete line 10A. Begin and complete line 13. Recover string 1 for source maintenance.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Next 24 hours

Finish source maintenance, survey lines 16, 23, 20.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 31 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

08/31/2009

Prime Sail Line	84.000
Infill Sail Line	0.000
Reshoot Sail Line	9.660
Total:	93.660

Time Activity Analysis

08/31/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	21:14
Deg. Survey/Source Maintenance	0:00
Streamer Maintenance	0:58
Streamer Recovery	0:00
Streamer Deployment	0:24
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	1:17
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:07

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:24	Source Deploy – Adjust source to 9m depth
00:24	07:38	Source survey – MGL0910_07 FSP 9163 – LSP 9021 Prime
07:38	08:17	Turn/Transition
08:17	08:30	Source survey – MGL0910_10 FSP 10020 – LSP 10024 Prime
08:30	08:37	Equip Failure – Nav
08:37	15:21	Source survey – MGL0910_10A FSP 11026 – LSP 11156 Prime
15:21	15:59	Turn/Transition
15:59	23:02	Source survey – MGL0910_13 –FSP 12157 – LSP 12021 Prime
23:02	00:00	Source maintenance

GMT Midnight (24:00) Position / Heading:

POS 47 38.6268 N
 129 11.9796 W
HDG: 261 Deg
SPEED: 4.3 Knots

Weather:

Winds N @ 21 Kts
Seas 3-5"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturio, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete re-deploy of source after tow depth adjustment. Survey line 07, begin line 10. Navigation system error cause line to be immediately aborted and restarted as 10A. Complete line 10A. Begin and complete line 13. Recover string 1 for source maintenance.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

The PAM streamer showed an unacceptable level of noise early in the day and was recovered for troubleshooting at ~1430Z. PAM operations are temporarily suspended.

Next 24 hours

Finish source maintenance, survey lines 16, 23, 20.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 31 Aug 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

08/31/2009

Prime Sail Line	84.000
Infill Sail Line	0.000
Reshoot Sail Line	9.660
Total:	93.660

Time Activity Analysis

08/31/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	21:14
Deg. Survey/Source Maintenance	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:24
Source Maintenance	0:58
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	1:17
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:07

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:24	Source Deploy – Adjust source to 9m depth
00:24	07:38	Source survey – MGL0910_07 FSP 9163 – LSP 9021 Prime
07:38	08:17	Turn/Transition
08:17	08:30	Source survey – MGL0910_10 FSP 10020 – LSP 10024 Prime
08:30	08:37	Equip Failure – Nav
08:37	15:21	Source survey – MGL0910_10A FSP 11026 – LSP 11156 Prime
15:21	15:59	Turn/Transition
15:59	23:02	Source survey – MGL0910_13 –FSP 12157 – LSP 12021 Prime
23:02	00:00	Source maintenance

GMT Midnight (24:00) Position / Heading:

POS 47 38.6268 N
 129 11.9796 W
HDG: 261 Deg
SPEED: 4.3 Knots

Weather:

Winds N @ 21 Kts
Seas 3-5"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete re-deploy of source after tow depth adjustment. Survey line 07, begin line 10. Navigation system error cause line to be immediately aborted and restarted as 10A. Complete line 10A. Begin and complete line 13. Recover string 1 for source maintenance.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

The PAM streamer showed an unacceptable level of noise early in the day and was recovered for troubleshooting at ~1430Z. PAM operations are temporarily suspended.

Next 24 hours

Finish source maintenance, survey lines 16, 23, 20.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 01 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/01/2009

Prime Sail Line	184.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	184.500

Time Activity Analysis

09/01/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	13:04
Deg. Survey/Source Maintenance	7:05
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	1:59
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	1:52
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:32	Source maintenance
00:32	01:08	Turn/Transition
01:08	08:06	Source survey – MGL0910_16 FSP 13019 – LSP 13156
08:06	10:05	Source maintenance
10:05	10:41	Turn/Transition
10:41	17:46	Degraded survey – MGL0910_23 FSP 14157 – LSP 14021
17:46	18:26	Turn/Transition
18:26	00:00	Source survey – MGL0910_20 FSP 15019 – LSP 15156 Midnight Shot Point: 15156 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 48 08.1822 N
 129 03.4296 W
HDG: 261 Deg
SPEED: 4.3 Knots

Weather:

Winds N @ 11.6 Kts
Seas 3-5"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Deploy source after maintenance. Survey line 16. Source maintenance again. Survey line 23 surveyed with two strings only; strings 1 and 2 on board for maintenance. Complete survey line 23, redeploy full source. Begin survey line 20.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

PAM operations relocated to Main Deck STBD Dry Lab to use the hull transducer.

Next 24 hours

Complete survey line 20. We will recover strings 1 and 2 to swap them. Moving the problem string to position 2 will allow easier troubleshooting and maintenance.

Anticipate PAM streamer will be repaired and back in service.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 01 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/01/2009

Prime Sail Line	171.000
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	171.000

Time Activity Analysis

09/01/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	13:04
Deg. Survey/Source Maintenance	7:05
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	1:59
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	1:52
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:32	Source maintenance
00:32	01:08	Turn/Transition
01:08	08:06	Source survey – MGL0910_16 FSP 13019 – LSP 13156
08:06	10:05	Source maintenance
10:05	10:41	Turn/Transition
10:41	17:46	Degraded survey – MGL0910_23 FSP 14157 – LSP 14021
17:46	18:26	Turn/Transition
18:26	00:00	Source survey – MGL0910_20 FSP 15019 – LSP 15156 Midnight Shot Point: 15156 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 48 08.1822 N
 129 03.4296 W
HDG: 261 Deg
SPEED: 4.3 Knots

Weather:

Winds N @ 11.6 Kts
Seas 3-5"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Deploy source after maintenance. Survey line 16. Source maintenance again. Survey line 23 surveyed with two strings only; strings 1 and 2 on board for maintenance. Complete survey line 23, redeploy full source. Begin survey line 20.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

PAM operations relocated to Main Deck STBD Dry Lab to use the hull transducer.

Next 24 hours

Complete survey line 20. We will recover strings 1 and 2 to swap them. Moving the problem string to position 2 will allow easier troubleshooting and maintenance.

Anticipate PAM streamer will be repaired and back in service.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 02 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/02/2009

Prime Sail Line	166.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	166.500

Time Activity Analysis

09/02/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	18:20
Deg. Survey/Source Maintenance	1:19
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	1:47
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	2:34
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:30	Source survey – MGL0910_20 FSP 15126 – LSP 15156
01:30	03:17	Source maintenance – swapping strings
03:17	03:53	Turn/Transition
03:53	11:04	Source survey – MGL0910_17 FSP 16157 – LSP 16021
11:04	12:23	Turn/Transition – Long turn
12:23	19:34	Source survey – MGL0910_25 FSP 17020 – LSP 17156
19:34	20:13	Turn/Transition
20:13	21:18	Source survey – MGL0910_22 FSP 18158 – LSP 18138
21:18	22:37	Degraded survey – MGL0910_23 FSP 18138 – LSP 18114
22:37	21:18	Source survey – MGL0910_22 FSP 18114 – LSP 18138 Midnight Shot Point: 18090 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 47 59.9005 N
 129 09.0291 W
HDG: 198 Deg
SPEED: 4.4 Knots

Weather:

Winds SE @ 18 Kts
Seas 6-8"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturro, Dawe, Graham, Nicolas, Meyer

Daily Summary:



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Complete survey line 20. Pick up source strings 1, 2 to swap strings on umbilicals. Redeploy. Survey line 17. Survey line 25. Begin survey line 22. Recover source string 2 while on-line for repair and redeployed. Surveying line 22 with full source at midnight UTC.

Next 24 hours

Complete survey line 22. Survey line 19, 24; begin survey line 21.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 02 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/02/2009

Prime Sail Line	166.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	166.500

Time Activity Analysis

09/02/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	18:20
Deg. Survey/Source Maintenance	1:19
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	1:47
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	2:34
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:30	Source survey – MGL0910_20 FSP 15126 – LSP 15156
01:30	03:17	Source maintenance – swapping strings
03:17	03:53	Turn/Transition
03:53	11:04	Source survey – MGL0910_17 FSP 16157 – LSP 16021
11:04	12:23	Turn/Transition – Long turn
12:23	19:34	Source survey – MGL0910_25 FSP 17020 – LSP 17156
19:34	20:13	Turn/Transition
20:13	21:18	Source survey – MGL0910_22 FSP 18158 – LSP 18138
21:18	22:37	Degraded survey – MGL0910_22 FSP 18138 – LSP 18114
22:37	21:18	Source survey – MGL0910_22 FSP 18114 – LSP 18138 Midnight Shot Point: 18090 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 47 59.9005 N
 129 09.0291 W
HDG: 198 Deg
SPEED: 4.4 Knots

Weather:

Winds SE @ 18 Kts
Seas 6-8"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Complete survey line 20. Pick up source strings 1, 2 to swap strings on umbilicals. Redeploy. Survey line 17. Survey line 25. Begin survey line 22. Recover source string 2 while on-line for repair and redeployed. Surveying line 22 with full source at midnight UTC.

Next 24 hours

Complete survey line 22. Survey line 19, 24; begin survey line 21.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 03 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/03/2009

Prime Sail Line	186.750
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	186.750

Time Activity Analysis

09/03/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	20:28
Deg. Survey/Source Maintenance	0:47
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	2:45
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	03:22	Source survey – MGL0910_22 – 18090–18023
03:22	03:33	Degraded survey – MGL0910_22 – 18023–18021
03:33	04:42	Turn/Transition
04:42	11:09	Source survey – MGL0910_19 – 19020–19152
11:09	11:24	Degraded survey – MGL0910_19 – 19020–19152
11:24	12:23	Turn/Transition – PM string 3
12:23	12:44	Degraded survey – MGL0910_24 – 20157–20150
12:44	19:16	Source survey – MGL0910_24 – 20150–20021
19:16	19:53	Turn/Transition
19:53	00:00	Source survey – MGL0910_21 – 21020–21103 Midnight Shot Point: 21103 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 48 03.0202 N
 129 06.7189 W
HDG: 16.5 Deg
SPEED: 4.8 Knots

Weather:

Winds SE @ 22 Kts
Seas 6-8"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturio, Dawe, Graham, Nicolas, Meyer

Daily Summary:



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Complete survey line 22. Source maintenance again, String 2. GPS pod swapped out. Survey line 19. Preventative maintenance on String 3 at end of line 19; maintenance begun before EOL at PI request. Turn on to and survey line 24, maintenance ended shortly after SOL. Complete line 24. Turn on to and begin survey line 21.

Source performance much improved since on-line maintenance during line 22 on 9/2.

Next 24 hours

Complete survey line 21. Survey line 19, 24; begin survey line 21.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 04 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/04/2009

Prime Sail Line	179.550
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	179.550

Time Activity Analysis

09/04/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	21:54
Deg. Survey/Source Maintenance	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	2:06
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	02:41	Source survey – MGL0910_21 FSP 21103 – LSP 21156
02:41	03:24	Turn/Transition
03:24	11:17	Source survey – MGL0910_18 FSP 22159 – LSP 22021
11:17	11:59	Turn/Transition
11:59	19:10	Source survey – MGL0910_15 FSP 23019 – LSP 23156
19:10	19:51	Turn/Transition
19:51	00:00	Source survey – MGL0910_12 FSP 24158 – LSP 24087 Midnight Shot Point: 24087 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 47 57.5846 N
 129 01.6695 W
HDG: 197.9 Deg
SPEED: 4.6 Knots

Weather:

Winds S @ 10 Kts
Seas 6-8"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete survey line 21. Survey line 18. Survey line 15. Begin survey line 12.

Source continues to perform reliably.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Next 24 hours

Complete survey line 12. Survey lines 9, 14. Begin survey line 11.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 05 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/05/2009

Prime Sail Line	180.450
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	180.450

Time Activity Analysis

09/05/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	20:55
Deg. Survey/Source Maintenance	0:06
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	2:59
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	03:21	Source survey – MGL0910_12 FSP 24087 – LSP 24021
03:21	04:05	Turn/Transition
04:05	11:05	Source survey – MGL0910_09 FSP 25018 – LSP 25154
11:05	11:11	Degraded survey – MGL0910_09 FSP 25154 – LSP 25156
11:11	12:47	Turn/Transition
12:47	20:01	Source survey – MGL0910_14 FSP 26157 – LSP 26021
20:01	20:40	Turn/Transition
20:40	00:00	Source survey – MGL0910_11 FSP 27019 – LSP 27080 Midnight Shot Point: 27080 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 47 56.0732 N
 129 01.5391 W
HDG: 017.2 Deg
SPEED: 4.2 Knots

Weather:

Winds S @ 12.4 Kts
Seas 6-8"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete survey line 12. Survey line 09. Source maintenance begun two shots before EOL line 09 at PI request. Complete maintenance during line change. Survey line 14. Begin survey line 11.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Source continues to perform reliably. One 360 misfired though line 09 and was repaired during the line change.

Next 24 hours

Complete survey line 11. Survey line . Begin survey line 08. Line 08 will complete the 60k grid. Source maintenance en route to inner grid (20km survey lines). Begin survey inner grid.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 06 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/06/2009

Prime Sail Line	162.450
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	162.450

Time Activity Analysis

09/06/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	18:36
Deg. Survey/Source Maintenance	0:06
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	5:24
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	03:41	Source survey – MGL0910_11 FSP 27080 – LSP 27156
03:41	04:18	Turn/Transition
04:18	11:33	Source survey – MGL0910_08 FSP 28159 – LSP 28021
11:33	15:02	Turn/Transition – Move to inner grid
15:02	17:59	Source survey – MGL0910_26 FSP 29056 – LSP 29111
17:59	18:40	Turn/Transition
18:40	21:08	Source survey – MGL0910_29 FSP 30112 – LSP 30066
21:08	21:44	Turn/Transition
21:44	23:59	Source survey – MGL0910_32 FSP 31065 – LSP 31111
23:59	00:00	Turn/Transition

GMT Midnight (24:00) Position / Heading:

POS 48 04.3343 N
 129 03.0856W
HDG: 006.6 Deg
SPEED: 4.0 Knots

Weather:

Winds S @ 20 Kts
Seas 5-7"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Complete survey line 11. Survey line 08. Line 08 finished 60k grid. Preventative source maintenance during transit to inner grid; strings 3 and 4 recovered. Begin inner survey grid, 20km lines: Survey lines 26, 29, 32. At midnight UTC turning to line 35.

Next 24 hours

Continue and possibly complete 20km survey grid.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 07 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/07/2009

Prime Sail Line	146.700
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	146.700

Time Activity Analysis

09/07/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	17:05
Deg. Survey/Source Maintenance	0:06
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	6:55
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:39	Turn/Transition
00:39	03:05	Source survey – MGL0910_35 FSP 32113 – LSP 32066
03:05	03:52	Turn/Transition
03:52	06:32	Source survey – MGL0910_31 FSP 33064 – LSP 33111
06:32	07:12	Turn/Transition
07:12	09:30	Source survey – MGL0910_28 FSP 34112 – LSP 34066
09:30	10:17	Turn/Transition
10:17	12:31	Source survey – MGL0910_33 FSP 35065 – LSP 35111
12:31	13:33	Turn/Transition
13:33	16:14	Source survey – MGL0910_27 FSP 36114 – LSP 36066
16:14	16:57	Turn/Transition
16:57	19:27	Source survey – MGL0910_30 FSP 37065 – LSP 37111
19:27	20:08	Turn/Transition
20:08	22:24	Source survey – MGL0910_34 FSP 38112 – LSP 38066
22:24	00:00	Turn/Transition/Source maintenance

GMT Midnight (24:00) Position / Heading:

POS 47 47.9961 N
 129 05.5686 W
HDG: 150.2 Deg
SPEED: 5.1 Knots

Weather:

Winds S @ 10 Kts
Seas 4-6"

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete 20km survey grid: survey lines 35, 31, 28, 33, 27, 30, 34. Finish line 34 2224Z, begin transition to line 02A, a reshoot of line 02 at 9m instead of the original 15m. Preventative source maintenance during transition. ETA to SOL is ~0415Z.

Next 24 hours

Resurvey the 100km line 02; begin survey on the previously skipped line 01.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 08 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/08/2009

Prime Sail Line	126.300
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	126.300

Time Activity Analysis

09/08/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	17:28
Deg. Survey/Source Maintenance	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	6:07
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	25:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	04:52	Turn/Transition/Source maintenance
04:52	18:36	Source survey – MGL0910_02A FSP 39019 – LSP 39259
18:36	19:25	Turn/Transition
19:25	19:29	Power Failure
19:29	19:50	Power restored, bringing systems online
19:50	20:16	Turn/Transition
20:16	00:00	Source survey – MGL0910_01 FSP 40220 – LSP 40169 Midnight Shot Point: 40169 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 48 09.9181 N
 128 38.6136 W
HDG: 182.0 Deg
SPEED: 3.4 Knots

Weather:

Winds S @ 28 Kts
Seas 6-8'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete transit to southern end of line 02, survey line 02. Power/single engine failure during line change on to line 01. Four minutes lost to power failure, 21 minutes lost to recovering systems after power failure. Gun string 3 tow rope parted during turn as well. Slow ship to 3 knots and continue on to line 01. SOL one shot past beginning of charted line.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Surveying along line 01 at midnight UTC.

Next 24 hours

Complete line 01, turn on to line 39. Survey line 39, start line 05.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 08 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/08/2009

Prime Sail Line	126.300
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	126.300

Time Activity Analysis

09/08/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	17:28
Deg. Survey/Source Maintenance	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	6:07
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:25

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	04:52	Turn/Transition/Source maintenance
04:52	18:36	Source survey – MGL0910_02A FSP 39019 – LSP 39259
18:36	19:25	Turn/Transition
19:25	19:29	Power Failure
19:29	19:50	Power restored, bringing systems online
19:50	20:16	Turn/Transition
20:16	00:00	Source survey – MGL0910_01 FSP 40220 – LSP 40169 Midnight Shot Point: 40169 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 48 09.9181 N
 128 38.6136 W
HDG: 182.0 Deg
SPEED: 3.4 Knots

Weather:

Winds S @ 28 Kts
Seas 6-8'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete transit to southern end of line 02, survey line 02. Power/single engine failure during line change on to line 01. Four minutes lost to power failure, 21 minutes lost to recovering systems after power failure. Gun string 3 tow rope parted during turn as well. Slow ship to 3 knots and continue on to line 01. SOL one shot past beginning of charted line.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Surveying along line 01 at midnight UTC.

Next 24 hours

Complete line 01, turn on to line 39. Survey line 39, start line 05.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 09 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/09/2009

Prime Sail Line	167.500
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	167.500

Time Activity Analysis

09/09/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	20:52
Deg. Survey/Source Maintenance	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	2:41
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	0:27
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	09:09	Source survey – MGL0910_01 FSP 40169 – LSP 40023
09:09	09:18	Turn/Transition
09:18	15:33	Source survey – MGL0910_39 FSP 41023 – LSP 41128
15:33	15:51	Turn/Transition
15:51	18:32	Source maintenance
18:32	00:00	Source survey – MGL0910_05A FSP 42013 – LSP 42113 Midnight Shot Point: 42113 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 47 54.0029 N
 129 23.8261 W
HDG: 010.8 Deg
SPEED: 3.8 Knots

Weather:

Winds S @ 8 Kts
Seas 3-5'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete survey along line 01. Turn on to and survey line 39. Complete survey line 39, perform outside turn for source maintenance. Strings 1 and 2 recovered. Redeploy source and begin survey line 05A.

Surveying along line 05A at midnight UTC.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Next 24 hours

Complete line 05A, turn on to line 06. Survey line 06. Reshoot line 23 – previously surveyed at half power.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 10 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/10/2009

Prime Sail Line	172.490
Infill Sail Line	0.000
Reshoot Sail Line	0.000
Total:	172.490

Time Activity Analysis

09/10/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	21:15
Deg. Survey/Source Maintenance	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	2:45
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	08:33	Source survey – MGL0910_05A FSP 42113 – LSP 42260
08:33	10:36	Turn/Transition
10:36	22:32	Source survey – MGL0910_06 FSP 43229 – LSP 43021
22:32	23:14	Turn/Transition
23:14	00:00	Source survey – MGL0910_40 FSP 44022 – LSP 44037 Midnight Shot Point: 44037 – Line Continued on New Day

GMT Midnight (24:00) Position / Heading:

POS 47 36.1689 N
 129 25.9810 W
HDG: 035.9 Deg
SPEED: 4.9 Knots

Weather:

Winds S @ 11.2 Kts
Seas 3-5'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturio, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete survey along line 05A. Survey 06. Turn and begin transit to 23R. Survey opportunity line 40 enroute to 23R.

Next 24 hours



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Complete line 40,. Begin and complete survey line 23R. Stop survey at 0400L – 1100Z – and recover source. Begin OBS recovery.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 11 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/11/2009

Prime Sail Line	36.300
Infill Sail Line	0.000
Reshoot Sail Line	68.000
Total:	104.300

Time Activity Analysis

09/11/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	11:00
Deg. Survey/Source Maintenance	0:00
Streamer Maintenance	0:00
Streamer Recovery	0:00
Streamer Deployment	0:00
Source Maintenance	0:00
Source Recovery	1:24
Source Deploy	0:00
PAM Deploy	0:00
PAM Recovery	0:14
Seismic Air Compressor	0:00
Hydraulic System	0:00
Turn/Transition	0:04
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	11:18
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:58	Source line – MGL0910_40 FSP 44037 – LSP 44077 Prime
01:58	02:02	Turn/Transition
02:02	11:04	Source line – MGL0910_23R FSP 45021 – LSP 45157 Reshoot
11:04	11:04	Source line – MGL0910_23R FSP 45157 – LSP 45196 Prime
11:04	12:28	Source Recovery
12:28	12:42	PAM recovery
12:42	14:38	OBS Recovery
14:38	14:38	OBS Recovered – W28
14:38	17:07	OBS Recovery
17:07	17:07	OBS Recovered – W27
17:07	20:05	OBS Recovery
20:05	20:05	OBS Recovered – S18
20:05	21:51	OBS Recovery
21:51	21:51	OBS Recovered – W26
21:51	23:39	OBS Recovery
23:39	23:39	OBS Recovered – W25
23:39	00:00	OBS Recovery

GMT Midnight (24:00) Position / Heading:

POS 48 06.7827 N
 129 22.3236 W
HDG: 175.0 Deg
SPEED: 9.2 Knots

Weather:

Winds S @ 9.0 Kts
Seas 6-8'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete survey along line 40. Reshoot line 23, as 23R. Extend 23 north until 1100Z. Recover source, recover PAM, begin OBS recovery. Five OBS instruments recovered.

Next 24 hours

Recover OBS instruments.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 12 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/12/2009

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

Time Activity Analysis

09/12/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	24:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:35	OBS Recovery
01:35	01:35	OBS Recovered – W24
01:35	03:22	OBS Recovery
03:22	03:22	OBS Recovered – S17
03:22	05:21	OBS Recovery
05:21	05:21	OBS Recovered – S61
05:21	06:51	OBS Recovery
06:51	06:51	OBS Recovered – S56
06:51	08:56	OBS Recovery
08:56	08:56	OBS Recovered – S48
08:56	10:25	OBS Recovery
10:25	10:25	OBS Recovered – S49
10:25	11:56	OBS Recovery
11:56	11:56	OBS Recovered – S41
11:56	14:29	OBS Recovery
14:29	14:29	OBS Recovered – S13
14:29	16:13	OBS Recovery
16:13	16:13	OBS Recovered – W35
16:13	18:06	OBS Recovery
18:06	18:06	OBS Recovered – W07
18:06	19:45	OBS Recovery
19:45	19:45	OBS Recovered – W08
19:45	21:57	OBS Recovery
21:57	21:57	OBS Recovered – W09
21:57	23:41	OBS Recovery
23:41	23:41	OBS Recovered – W10
23:41	00:00	OBS Recovery

GMT Midnight (24:00) Position / Heading:

POS 48 20.822 N
 128 43.246 W
 HDG: 209.0 Deg
 SPEED: 9.3 Knots



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Weather:

Winds SW @ 14 Kts

Seas 5-7'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Recovering OBS instruments. Thirteen OBS instruments recovered. 18 total recovered.

Next 24 hours

Recover OBS instruments.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 13 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/13/2009

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

Time Activity Analysis

09/13/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	24:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:51	OBS Recovery
01:51	01:51	OBS Recovered – S14
01:51	03:55	OBS Recovery
03:55	03:55	OBS Recovered – S36
03:55	05:45	OBS Recovery
05:45	05:45	OBS Recovered – S50
05:45	07:31	OBS Recovery
07:31	07:31	OBS Recovered – S51
07:31	09:13	OBS Recovery
09:13	09:13	OBS Recovered – S50
09:13	10:45	OBS Recovery
10:45	10:45	OBS Recovered – S64
10:45	12:51	OBS Recovery
12:51	12:51	OBS Recovered – S63
12:51	14:43	OBS Recovery
14:43	14:43	OBS Recovered – S62
14:43	16:24	OBS Recovery
16:24	16:24	OBS Recovered – S55
16:24	17:53	OBS Recovery
17:53	17:53	OBS Recovered – W60
17:53	19:11	OBS Recovery
19:11	19:11	OBS Recovered – S59
19:11	20:27	OBS Recovery
20:27	20:27	OBS Recovered – S52
20:27	21:53	OBS Recovery
21:53	21:53	OBS Recovered – W58
21:53	23:24	OBS Recovery
23:24	23:24	OBS Recovered – W44
23:24	00:00	OBS Recovery

GMT Midnight (24:00) Position / Heading:

POS 47 49.2582 N
 129 08.9769 W
 HDG: 198.0 Deg



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

SPEED: 4.0 Knots

Weather:

Winds SW @ 12 Kts

Seas 5-7'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Recovering OBS instruments. Fourteen OBS instruments recovered. 32 total recovered.

Next 24 hours

Recover OBS instruments.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 14 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/14/2009

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

Time Activity Analysis

09/14/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	24:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

2. TIME SUMMARY

Start	End	Description/Comments
00:00	01:03	OBS Recovery
01:03	01:03	OBS Recovered – S43
01:03	02:53	OBS Recovery
02:53	02:53	OBS Recovered – S30
02:53	04:35	OBS Recovery
04:35	04:35	OBS Recovered – S31
04:35	06:37	OBS Recovery
06:37	06:37	OBS Recovered – S29
06:37	08:25	OBS Recovery
08:25	08:25	OBS Recovered – S42
08:25	10:04	OBS Recovery
10:04	10:04	OBS Recovered – S57
10:04	11:49	OBS Recovery
11:49	11:49	OBS Recovered – S15
11:49	12:55	OBS Recovery
12:55	12:55	OBS Recovered – S15A
12:55	14:08	OBS Recovery
14:08	14:08	OBS Recovered – S15B
14:08	15:25	OBS Recovery
15:25	15:25	OBS Recovered – S15C
15:25	17:29	OBS Recovery
17:29	17:29	OBS Recovered – W19
17:29	19:26	OBS Recovery
19:26	19:26	OBS Recovered – W20
19:26	21:26	OBS Recovery
21:26	21:26	OBS Recovered – W21
21:26	23:13	OBS Recovery
23:13	23:13	OBS Recovered – W22
23:13	00:00	OBS Recovery

GMT Midnight (24:00) Position / Heading:

POS 47 56.9466 N
 129 23.3240 W
HDG: 29.9.0 Deg
SPEED: 1.7 Knots

Weather:

Winds SW @ 16.8 Kts



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Seas 5-7'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturro, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Recovering OBS instruments. Fourteen OBS instruments recovered. 46 total recovered.

Next 24 hours

Recover OBS instruments.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 14 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/14/2009

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

Time Activity Analysis

09/14/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	24:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:59	OBS Recovery
00:59	00:59	OBS Recovered – W23
00:59	03:07	OBS Recovery
03:07	03:07	OBS Recovered – S16
03:07	05:16	OBS Recovery
05:16	05:16	OBS Recovered – S54
05:16	06:49	OBS Recovery
06:49	06:49	OBS Recovered – S46
06:49	07:52	OBS Recovery
07:52	07:52	OBS Recovered – S46A
07:52	10:16	OBS Recovery
10:16	10:16	OBS Recovered – S39
10:16	11:42	OBS Recovery
11:42	11:42	OBS Recovered – S47
11:42	13:17	OBS Recovery
13:17	13:17	OBS Recovered – S40
13:17	15:40	OBS Recovery
15:40	15:40	OBS Recovered – W06
15:40	17:34	OBS Recovery
17:34	17:34	OBS Recovered – W05
17:34	19:39	OBS Recovery
19:39	19:39	OBS Recovered – W04
19:39	21:52	OBS Recovery
21:52	21:52	OBS Recovered – W03
21:52	00:00	OBS Recovery

GMT Midnight (24:00) Position / Heading:

POS 47 38.9132 N
 128 48.7165 W
HDG: 148.9 Deg
SPEED: 0.2 Knots

Weather:

Winds SW @ 29 Kts
Seas 8-10'

Comments



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Recovering OBS instruments. Twelve OBS instruments recovered. 58 total recovered.

Next 24 hours

Complete OBS instrument recovery, 68 total. Begin multibeam surveying.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 15 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/15/2009

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

Time Activity Analysis

09/15/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	24:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:59	OBS Recovery
00:59	00:59	OBS Recovered – W23
00:59	03:07	OBS Recovery
03:07	03:07	OBS Recovered – S16
03:07	05:16	OBS Recovery
05:16	05:16	OBS Recovered – S54
05:16	06:49	OBS Recovery
06:49	06:49	OBS Recovered – S46
06:49	07:52	OBS Recovery
07:52	07:52	OBS Recovered – S46A
07:52	10:16	OBS Recovery
10:16	10:16	OBS Recovered – S39
10:16	11:42	OBS Recovery
11:42	11:42	OBS Recovered – S47
11:42	13:17	OBS Recovery
13:17	13:17	OBS Recovered – S40
13:17	15:40	OBS Recovery
15:40	15:40	OBS Recovered – W06
15:40	17:34	OBS Recovery
17:34	17:34	OBS Recovered – W05
17:34	19:39	OBS Recovery
19:39	19:39	OBS Recovered – W04
19:39	21:52	OBS Recovery
21:52	21:52	OBS Recovered – W03
21:52	00:00	OBS Recovery

GMT Midnight (24:00) Position / Heading:

POS 47 38.9132 N
 128 48.7165 W
HDG: 148.9 Deg
SPEED: 0.2 Knots

Weather:

Winds SW @ 29 Kts
Seas 8-10'

Comments



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Recovering OBS instruments. Twelve OBS instruments recovered. 58 total recovered.

Next 24 hours

Complete OBS instrument recovery, 68 total. Begin multibeam surveying.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 16 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/16/2009

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

Time Activity Analysis

09/16/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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	0:51
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	5:16
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	17:53
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:59	OBS Recovery
00:59	00:59	OBS Recovered – W23
00:59	03:07	OBS Recovery
03:07	03:07	OBS Recovered – S16
03:07	05:16	OBS Recovery
05:16	05:16	OBS Recovered – S54
05:16	06:49	OBS Recovery
06:49	06:49	OBS Recovered – S46
06:49	07:52	OBS Recovery
07:52	07:52	OBS Recovered – S46A
07:52	10:16	OBS Recovery
10:16	10:16	OBS Recovered – S39
10:16	11:42	OBS Recovery
11:42	11:42	OBS Recovered – S47
11:42	13:17	OBS Recovery
13:17	13:17	OBS Recovered – S40
13:17	15:40	OBS Recovery
15:40	15:40	OBS Recovered – W06
15:40	17:34	OBS Recovery
17:34	17:34	OBS Recovered – W05
17:34	19:39	OBS Recovery
19:39	19:39	OBS Recovered – W04
19:39	21:52	OBS Recovery
21:52	21:52	OBS Recovered – W03
21:52	00:00	OBS Recovery

GMT Midnight (24:00) Position / Heading:

POS 47 57.0419 N
 129 00.4691 W
HDG: 215.15 Deg
SPEED: 9.1 Knots

Weather:

Winds SW @ 15 Kts
Seas 6-8'

Comments



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells

OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Recovered OBS instruments. Recovered instrument at W01, then high wind speeds and sea state required suspension of operations for 5+ hours. Recommenced recovery, recovering nine remaining instruments. All 68 instruments successfully recovered. Began transit to multibeam targets.

Next 24 hours

Multibeam survey over gaps in coverage, proceed to multibeam targets provided by Neptune Canada.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 17 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/17/2009

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

Time Activity Analysis

09/17/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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	2:28
Magnetometer Survey	0:00
Multibeam survey	21:32
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	0:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

2. TIME SUMMARY

Start	End	Description/Comments
00:00	02:28	Turn/Transition
02:28	03:40	MB Survey – MissData6
03:40	05:06	Turn/Transition
05:06	11:44	MB Survey – Line1
11:44	13:04	Turn/Transition
13:04	13:49	MB Survey – MissData1
13:49	15:49	Turn/Transition
15:49	17:47	MB Survey – MissData2
17:47	18:46	Turn/Transition
18:46	20:58	MB Survey – MissData4
20:58	22:58	MB Survey – Neptune1
22:58	00:00	Turn/Transition

GMT Midnight (24:00) Position / Heading:

POS 48 26.0232 N
 128 19.8276 W
HDG: 240.0 Deg
SPEED: 4.5 Knots

Weather:

Winds SW @ 15 Kts
Seas 6-8'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvaturio, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Multibeam survey. Complete survey of coverage gaps, begin mapping Neptune targets.



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Next 24 hours

Continue multibeam survey.

Anthony Johnson

MGL0910

R/V Marcus G. Langseth



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 18 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/18/2009

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

Time Activity Analysis

09/18/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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	24:00
Transit/Mob/Demob	0:00
Port Call	0:00
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	0:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:07	Turn/Transition
00:07	02:23	MB Survey – Neptune2
02:23	03:12	Turn/Transition
03:12	05:10	MB Survey – Neptune3
05:10	05:45	Turn/Transition
05:45	07:53	MB Survey – Neptune1A
07:53	13:30	Turn/Transition
13:30	15:52	MB Survey – Neptune4
15:52	16:26	Turn/Transition
16:26	18:49	MB Survey – Neptune5
18:49	19:29	Turn/Transition
19:29	21:27	MB Survey – Neptune6
21:27	22:04	Turn/Transition
22:04	23:34	MB Survey – Neptune7
23:34	00:00	Turn/Transition

GMT Midnight (24:00) Position / Heading:

POS 47 36.9750 N
 127 51.0847 W
HDG: 183.0 Deg
SPEED: 8.4 Knots

Weather:

Winds SW @ 27 Kts
Seas 8-10'

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Summary:

Multibeam survey. Map Neptune targets.

Next 24 hours

Complete multibeam surveying, head for port. Expect arrival late on the 19th or early on the 20th, local.

Anthony Johnson



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

Daily Report for 19 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/19/2009

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

Time Activity Analysis

09/19/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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	1:48
Transit/Mob/Demob	22:00
Port Call	0:12
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	0:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

2. TIME SUMMARY

Start	End	Description/Comments
00:00	00:12	Turn/Transition
00:12	01:48	MB Survey – Neptune8
01:48	00:00	Transit to port
21:00	00:00	Take arrival, Astoria, OR
23:48	00:00	All fast Astoria, OR, pier 1

GMT Midnight (24:00) Position / Heading:

POS 46 11.4400 N
 123 51.5198 W
HDG: 74.4 Deg
SPEED: 0.0 Knots

Weather:

Winds N @ 10 Kts
Seas In harbor. Calm.

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Durant, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Complete multibeam surveying, head for port. All fast Astoria, OR at 23:48.

Next 24 hours

Port call Astoria OR. Demob science party, OBS crews.

Anthony Johnson



Toomey

MGL0910

ETOMO

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

Daily Report for 20 Sep 2009

1. STATISTICAL ANALYSIS

Line Charge Analysis

Sailed KM

09/20/2009

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

Time Activity Analysis

09/20/2009

MCS Production	0:00
MCS Line Change	0:00
MCS Extended Line Change	0:00
Source-only Production	0:00
Deg. Survey/Source Maintenance	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	1:48
Transit/Mob/Demob	22:00
Port Call	0:12
Weather/Currents	0:00
Acoustic release cast	0:00
OBS Deployment	0:00
Test OBS Deployment	0:00
OBS Recovery	0:00
Equipment Failure – Seismic	0:00
Power/Propulsion Failure	0:00

Total: 24:00



Toomey

ETOMO

To: Office of Marine Operations

Cc: Reports Group

Fm: Anthony D Johnson – Technician in Charge (LDEO)

MGL0910

R/V Marcus G. Langseth

2. TIME SUMMARY

Start	End	Description/Comments
00:00	24:00	Port call, Astoria, OR

GMT Midnight (24:00) Position / Heading:

POS	46 11.4400 N
	123 51.5198 W
HDG:	74.4 Deg
SPEED:	2.5 Knots

Weather:

Winds	N @ 10 Kts
Seas	In harbor. Calm.

Comments

local time is UTC-7

Science technical staff currently on board:

Johnson, Cucchiara, Eaton, Goodick, Gunn, Gutierrez, Kuehnast, Martinson, McKiernan, Ng, Spoto

Science party currently on board:

Toomey, Wilcock, Hooft, Araragi, Weekly, Price, Soule, Wells
OBS Tech: Aaron, Dubois, Girbaud, Lemmond, Thai

Mammal observers currently on board vessel:

Beland, Calvatturo, Dawe, Graham, Nicolas, Meyer

Daily Summary:

Port call Astoria OR. Demob science party, OBS crews.

Next 24 hours

Port call Astoria OR. Unload SIO equipment.

Anthony Johnson