



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 23 JAN 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>01/23/2009</b>	
Total:	0.0000

#### Time Activity Analysis

	<b>01/23/2009</b>
Transit	0:00
Sourc Survey	0:00
Maneuvering	0:00
MB Survey	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Seismic Air Compressor	0:00
Mobilization	4:43
Demobilization	0:00
Cetaceans - PAM	0:00
Streamer Damage	0:00
Port Call	19:17
Medical Transfer	0:00
Work Boat Ops	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	19:17	Dockside Nuku'alofa
19:17	19:17	Depart for MGL0903
19:17	20:00	Transit to work area

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

Pos	20 56.9938 S
	175 42.8965 W
HDG:	264.9 Deg
SPEED:	10.7 Kts



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

**Weather:**

Winds 15 kts.  
Seas 4-6'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Depart Nuku'alofa, Tonga, for MGL0903. Begin transit to OBS 01 deployment point. Spin up EM122, pco2, TSG. EM122, TSG, WX, gravimeter logging. Knudsen needs evaluation.

Next 24 hours

Deploy OBS 01. Acoustic release test, deploy OBS's

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 24 JAN 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km 0.00  
01/24/2009  
Total: 0.0000

#### Time Activity Analysis

01/24/2009  
Acoustic release tests 0:00  
Source Survey 0:00  
OBS Deploy/Recovery 5:42  
OBS release testing 16:38  
MB Survey 0:00  
Instrument 0:00  
Hydraulics 0:00  
Source 0:00  
Seismic Air Compressor 0:00  
Mobilization 1:40  
Demobilization 0:00  
Cetaceans - PAM 0:00  
Streamer Damage 0:00  
Port Call 0:00  
Medical Transfer 0:00  
Work Boat Ops 0:00  
Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	01:40	Transit to work area
01:40	02:03	Deploying OBS 01
02:03	02:03	OBS 01 Deployed (SIO)
02:03	02:18	OBS acoustic release tests
02:18	02:47	Transit to next site – Acoustic release test site
02:47	03:35	Deck preparation
03:36	03:36	Acoustic release package #1 in the water



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To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

03:36	06:43	Deploy release package to 2300m
06:43	07:34	Acoustic release tests
07:34	09:03	Retrieve acoustic release package
09:03	09:03	Acoustic release package #1 on board
09:03	09:37	Deck preparation
09:37	09:37	Acoustic release package #2 in the water
09:37	12:08	Deploy release package to 2300m
12:08	12:50	Acoustic release tests
12:50	14:36	Retrieve acoustic release package
14:36	14:36	Acoustic release package #2 on board
14:36	14:56	Deck preparation
14:56	14:56	Acoustic release package #3 in the water
14:56	16:42	Deploy release package to 2300m
16:42	17:07	Acoustic release tests
17:07	18:33	Retrieve acoustic release package
18:33	18:33	Acoustic release package #3 on board
18:33	18:56	Evaluation of acoustic release test results
18:56	19:21	Transit to next site
19:21	19:33	Deploying OBS 24 (SIO)
19:33	19:33	OBS dropped, OBS 24 (SIO)
19:33	19:48	OBS acoustic release tests -- OK
19:48	20:22	Transit to next site
20:22	20:46	Deploying OBS 23 (SIO)
20:46	20:46	OBS dropped, OBS 23 (SIO)
20:46	21:01	OBS acoustic release tests – OK
21:01	21:31	Transit to next site
21:31	21:50	OBS instrument preparation
21:50	22:05	Deploying OBS 02 (WHOI)
22:05	22:05	OBS dropped, OBS 02 (WHOI)
22:05	22:20	OBS acoustic release tests – OK
22:20	22:57	Transit to next site
22:57	23:10	Deploying OBS 03 (WHOI)
23:10	23:10	OBS dropped, OBS 03 (WHOI)
23:10	23:25	OBS acoustic release tests – OK
23:25	24:00	Transit to next site

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

Pos 20 45.4345 S

176 00.0885 W

HDG: 15.5 Deg



**Weins/Dunn**

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**R/V Marcus G. Langseth**

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

SPEED: 10.8 Kts

**Weather:**

Winds 15 kts.  
Seas 4-6'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Deployed OBS 01. Acoustic release tests, all OK. Heavy weather and vessel pitching caused the line to slack and load with movement, slowing the first descent considerably. Next deployed OBS's 24, 23, 02 and 03.

Next 24 hours  
Deploy OBS's, 16-24 deployments expected.

Anthony Johnson



Weins/Dunn

MGL0903

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R/V Marcus G. Langseth

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

## Daily Report for 25 JAN 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>01/25/2009</b>	
Total:	0.0000

#### Time Activity Analysis

	<b>01/25/2009</b>
Acoustic release tests	0:00
Source Survey	0:00
OBS Deploy/Recovery	23:00
OBS instrument preparation	1:00
MB Survey	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Seismic Air Compressor	0:00
Mobilization	0:00
Demobilization	0:00
Cetaceans - PAM	0:00
Streamer Damage	0:00
Port Call	0:00
Medical Transfer	0:00
Work Boat Ops	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:28	Transit to next site
00:28	00:37	Deploying OBS 04
00:37	00:37	OBS dropped, OBS 04
00:37	00:46	OBS Acoustic release tests -- OK
00:46	01:19	Transit to next site
01:19	01:39	Deploying OBS 05
01:39	01:39	OBS dropped, OBS 05
01:39	01:51	OBS Acoustic release tests -- OK



**Weins/Dunn**

**MGL0903**

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To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

01:51	02:28	Transit to next site
02:28	02:38	Deploying OBS 06
02:38	02:38	OBS dropped, OBS 06
02:38	02:53	OBS Acoustic release tests -- OK
02:53	03:14	Transit to next site
03:14	03:27	Deploying OBS 07
03:27	03:27	OBS dropped, OBS 07
03:27	03:33	OBS Acoustic release tests -- OK
03:33	04:02	Transit to next site
04:02	04:17	Deploying OBS 08
04:17	04:17	OBS dropped, OBS 08
04:17	04:22	OBS Acoustic release tests -- OK
04:22	04:56	Transit to next site
04:56	05:11	Deploying OBS 09
05:11	05:11	OBS dropped, OBS 09
05:11	05:24	OBS Acoustic release tests -- OK
05:24	05:50	Transit to next site
05:50	06:05	Deploying OBS 10
06:05	06:05	OBS dropped, OBS 10
06:05	06:10	OBS Acoustic release tests -- OK
06:10	06:37	Transit to next site
06:37	06:52	Deploying OBS 11
06:52	06:52	OBS dropped, OBS 11
06:52	06:59	OBS Acoustic release tests -- OK
06:59	07:30	Transit to next site
07:30	07:45	Deploying OBS 12
07:45	07:45	OBS dropped, OBS 12
07:45	07:50	OBS Acoustic release tests -- OK
07:50	08:16	Transit to next site
08:16	08:31	Deploying OBS 13
08:31	08:31	OBS dropped, OBS 13
08:31	08:46	OBS Acoustic release tests -- OK
08:46	09:13	Transit to next site
09:13	09:28	Deploying OBS 14
09:28	09:28	OBS dropped, OBS 14
09:28	09:35	OBS Acoustic release tests -- OK
09:35	09:51	Transit to next site
09:51	10:15	Deploying OBS 15
10:15	10:15	OBS dropped, OBS 15
10:15	10:21	OBS Acoustic release tests -- OK
10:21	10:52	Transit to next site
10:52	11:07	Deploying OBS 16
11:07	11:07	OBS dropped, OBS 16
11:07	11:11	OBS Acoustic release tests -- OK



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Fm: A Johnson – Technician in Charge (LDEO)

11:11	11:34	Transit to next site
11:34	11:52	Delayed for OBS prep
11:52	12:03	Deploying OBS 17
12:03	12:03	OBS dropped, OBS 17
12:03	12:13	OBS Acoustic release tests -- OK
12:13	12:34	Transit to next site
12:34	12:55	Deploying OBS 18
12:55	12:55	OBS dropped, OBS 18
12:55	13:04	OBS Acoustic release tests -- OK
13:04	13:26	Transit to next site
13:26	13:48	Delayed for OBS prep
13:48	13:57	Deploying OBS 19
13:57	13:57	OBS dropped, OBS 19
13:57	14:08	OBS Acoustic release tests -- OK
14:08	14:32	Transit to next site
14:32	14:44	Deploying OBS 20
14:44	14:44	OBS dropped, OBS 20
14:44	14:55	OBS Acoustic release tests -- OK
14:55	15:23	Transit to next site
15:23	15:36	Deploying OBS 21
15:36	15:36	OBS dropped, OBS 21
15:36	15:48	OBS Acoustic release tests -- OK
15:48	16:21	Transit to next site
16:21	16:36	Deploying OBS 22
16:36	16:36	OBS dropped, OBS 22
16:36	16:51	OBS Acoustic release tests -- OK
16:51	17:18	Transit to next site
17:18	17:28	Deploying OBS 25
17:28	17:28	OBS dropped, OBS 25
17:28	17:38	OBS Acoustic release tests -- OK
17:38	18:08	Transit to next site
18:08	18:18	Deploying OBS 26
18:18	18:18	OBS dropped, OBS 26
18:18	18:31	OBS Acoustic release tests -- OK
18:31	19:20	Transit to next site
19:20	19:30	Deploying OBS 27
19:30	19:30	OBS dropped, OBS 27
19:30	19:46	OBS Acoustic release tests -- OK
19:46	20:18	Transit to next site
20:18	20:32	Deploying OBS 28
20:32	20:32	OBS dropped, OBS 28
20:32	20:49	OBS Acoustic release tests -- OK
20:49	21:18	Transit to next site
21:18	21:38	Delayed for OBS prep





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21:38	21:51	Deploying OBS 29
21:51	21:51	OBS dropped, OBS 29
21:51	22:04	OBS Acoustic release tests -- OK
22:04	22:30	Transit to next site
22:30	22:43	Deploying OBS 30
22:43	22:43	OBS dropped, OBS 30
22:43	22:53	OBS Acoustic release tests -- OK
22:53	23:45	Transit to next site
23:45	23:56	Deploying OBS 31
23:56	23:56	OBS dropped, OBS 31
23:56	00:00	OBS Acoustic release tests

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

Pos 20 42.3802 S  
176 13.6943 W  
HDG: 87.2 Deg  
SPEED: 0.8 Kts

**Weather:**

Winds 15 kts.  
Seas 4-6'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Deployed 26 OBS instruments. XBT launch.

Next 24 hours

Deploy OBS's, 20-24 deployments expected.



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Anthony Johnson



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

## Daily Report for 26 JAN 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>01/26/2009</b>	
Total:	0.0000

#### Time Activity Analysis

	<b>01/26/2009</b>
Acoustic release tests	0:00
Source Survey	0:00
OBS Deploy/Recovery	23:13
OBS instrument preparation	0:47
MB Survey	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Seismic Air Compressor	0:00
Mobilization	0:00
Demobilization	0:00
Cetaceans - PAM	0:00
Streamer Damage	0:00
Port Call	0:00
Medical Transfer	0:00
Work Boat Ops	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:28	Transit to next site
00:28	00:37	Deploying OBS 32
00:37	00:37	OBS dropped, OBS 32
00:37	00:43	OBS Acoustic release tests -- OK
00:43	01:07	Transit to next site
01:07	01:13	Deploying OBS 33
01:13	01:13	OBS dropped, OBS 33
01:13	01:18	OBS Acoustic release tests -- OK



**Weins/Dunn**

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To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

01:18	01:40	Transit to next site
01:40	01:51	Deploying OBS 34
01:51	01:51	OBS dropped, OBS 34
01:51	01:57	OBS Acoustic release tests -- OK
01:57	02:29	Transit to next site
02:29	02:36	Deploying OBS 35
02:36	02:36	OBS dropped, OBS 35
02:36	02:42	OBS Acoustic release tests -- OK
02:42	03:04	Transit to next site
03:04	03:13	Deploying OBS 36
03:13	03:13	OBS dropped, OBS 36
03:13	03:20	OBS Acoustic release tests -- OK
03:20	03:46	Transit to next site
03:46	03:58	Deploying OBS 37
03:58	03:58	OBS dropped, OBS 37
03:58	04:03	OBS Acoustic release tests -- OK
04:03	04:56	Transit to next site
04:56	05:07	Deploying OBS 38
05:07	05:07	OBS dropped, OBS 38
05:07	05:13	OBS Acoustic release tests -- OK
05:13	05:41	Transit to next site
05:41	05:52	Deploying OBS 39
05:52	05:52	OBS dropped, OBS 39
05:52	05:57	OBS Acoustic release tests -- OK
05:57	06:34	Transit to next site
06:34	06:44	Deploying OBS 40
06:44	06:44	OBS dropped, OBS 40
06:44	06:49	OBS Acoustic release tests -- OK
06:49	07:17	Transit to next site
07:17	07:35	Deploying OBS 41
07:35	07:35	OBS dropped, OBS 41
07:35	07:41	OBS Acoustic release tests -- OK
07:41	08:16	Transit to next site
08:16	08:32	Deploying OBS 42
08:32	08:32	OBS dropped, OBS 42
08:32	08:37	OBS Acoustic release tests -- OK
08:37	09:03	Transit to next site
09:03	09:15	Deploying OBS 43
09:15	09:15	OBS dropped, OBS 43
09:15	09:20	OBS Acoustic release tests -- OK
09:20	10:05	Transit to next site
10:05	10:18	Deploying OBS 44
10:18	10:18	OBS dropped, OBS 44
10:18	10:24	OBS Acoustic release tests -- OK



**Weins/Dunn**

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To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

10:24	10:53	Transit to next site
10:53	11:06	Deploying OBS 45
11:06	11:06	OBS dropped, OBS 45
11:06	11:17	OBS Acoustic release tests -- OK
11:17	11:44	Transit to next site
11:44	11:55	Deploying OBS 46
11:55	11:55	OBS dropped, OBS 46
11:55	12:03	OBS Acoustic release tests -- OK
12:03	12:32	Transit to next site
12:32	12:42	Deploying OBS 47
12:42	12:42	OBS dropped, OBS 47
12:42	12:56	OBS Acoustic release tests -- OK
12:56	13:22	Transit to next site
13:22	13:33	Deploying OBS 48
13:33	13:33	OBS dropped, OBS 48
13:33	13:44	OBS Acoustic release tests -- OK
13:44	14:10	Transit to next site
14:10	14:25	Delayed for OBS prep
14:25	14:36	Deploying OBS 49
14:36	14:36	OBS dropped, OBS 49
14:36	14:49	OBS Acoustic release tests -- OK
14:49	15:21	Transit to next site
15:21	15:33	Deploying OBS 50
15:33	15:33	OBS dropped, OBS 50
15:33	15:42	OBS Acoustic release tests -- OK
15:42	16:24	Transit to next site
16:24	16:36	Deploying OBS 51
16:36	16:36	OBS dropped, OBS 51
16:36	16:41	OBS Acoustic release tests -- OK
16:41	17:16	Transit to next site
17:16	17:28	Deploying OBS 52
17:28	17:28	OBS dropped, OBS 52
17:28	17:32	OBS Acoustic release tests -- OK
17:32	18:09	Transit to next site
18:09	18:31	Deploying OBS 53
18:31	18:31	OBS dropped, OBS 53
18:31	18:36	OBS Acoustic release tests -- OK
18:36	19:36	Transit to next site
19:36	19:49	Deploying OBS 54
19:49	19:49	OBS dropped, OBS 54
19:49	19:58	OBS Acoustic release tests -- OK
19:58	20:32	Transit to next site
20:32	20:44	Deploying OBS 55
20:44	20:44	OBS dropped, OBS 55



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Fm: A Johnson – Technician in Charge (LDEO)

20:44	20:48	OBS Acoustic release tests -- OK
20:48	21:21	Transit to next site
21:21	21:35	Deploying OBS 56
21:35	21:35	OBS dropped, OBS 56
21:35	21:40	OBS Acoustic release tests -- OK
21:40	22:29	Transit to next site
22:29	23:01	Delayed for OBS prep
23:01	23:15	Deploying OBS 57
23:15	23:15	OBS dropped, OBS 57
23:15	23:22	OBS Acoustic release tests -- OK
23:22	00:00	Transit to next site

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

Pos 20 28.0725 S  
176 19.5817 W  
HDG: 007.3 Deg  
SPEED: 10.5 Kts

**Weather:**

Winds 20 kts.  
Seas 6-8'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Deployed 26 OBS instruments.

Next 24 hours

Complete OBS deployment. Deploy guns, start survey line 001.



**Weins/Dunn**

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**R/V Marcus G. Langseth**

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

Anthony Johnson



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R/V Marcus G. Langseth

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

## Daily Report for 27 JAN 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km 0.00  
01/27/2009  
Total: 0.0000

#### Time Activity Analysis

01/27/2009  
Source Survey 0:02  
OBS Deploy/Recovery 1:19  
Source 8:59  
Seismic Air Compressor 0:19  
Turn/Transition 1:51  
Weather 11:30  
Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:12	Transit to next site
00:12	00:23	Deploying OBS 58
00:23	00:23	OBS dropped, OBS 58
00:23	00:28	OBS Acoustic release tests -- OK
00:28	01:06	Transit to next site
01:06	01:14	Deploying OBS 59
01:14	01:14	OBS dropped, OBS 59
01:14	01:19	OBS Acoustic release tests -- OK
01:19	01:27	Transit to source deploy point
01:27	01:45	Deploy PAM
01:45	02:33	Transit to gun deploy point
02:33	10:18	Deploy seismic source
10:18	12:09	Transit to first line
12:09	12:11	SOL LAU_XA001 – added to survey at PI request
12:11	12:22	Compressor failure
12:22	12:30	Ramping up
12:30	12:51	Turn to recover source
12:51	14:30	Recover source





**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

14:30	23:34	Down for weather
23:34	24:00	Transit to source deploy point

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

Pos	20 59.1911 S
	176 07.9849 W
HDG:	199.9 Deg
SPEED:	10.57 Kts

**Weather:**

Winds	15 kts.
Seas	10-14'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Deployed 2 OBS instruments. Finished with OBS deployment, 59 instruments deployed total. Began source deployment. Finished source deployment 15 nm from original target. Compressor failure almost immediately after going on line. Before ramp-up was complete the decision was made to recover the guns, based on rough seas and available weather reports.

Shortly before UTC midnight, ship maneuvered to a deploy point in anticipation of source deployment.

Next 24 hours  
Deploy guns, begin survey.

NOTE: At the time of filing (1100 UTC) we are still down for weather.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 28 JAN 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>01/28/2009</b>	
Test03 – test line	0.0000
Total:	0.0000

#### Time Activity Analysis

<b>01/28/2009</b>	
Source Survey	1:24
OBS Deploy/Recovery	1:19
Source	5:29
Seismic Air Compressor	0:00
Turn/Transition	2:20
Weather	14:46
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	02:20	Transit to source deploy point
02:20	03:29	Deploy seismic source
03:29	03:29	Cancel source deployment for weather
03:29	18:15	Down for weather: Multibeam and mag/grav survey
18:15	19:54	Deploy source
19:54	19:54	First shot
19:54	22:35	Deploy source
10:35	24:00	Survey line Test03

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

Pos 20 27.1349 S  
175 45.0105 W  
HDG: 214.0 Deg  
SPEED: 2.95 Kts

#### Weather:



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Winds            15 kts.  
Seas             6-8'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Ship maneuvered to source deploy point, weather still too rough to deploy source. Ran along the eastern edge of survey grid to complement intended track multibeam data. Set up for source deployment about 1800Z. Successfully deployed source and began survey work.

Next 24 hours  
Deploy survey line A028, A027, A026.

NOTE: At the time of filing (1400 UTC) we have completed A028 and have begun A027.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 29 JAN 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>01/29/2009</b>	
Test03 – test line	0.000
Lau_A028	57.150
Lau_A027	67.050
Lau_A026	10.800
Total:	135.000

#### Time Activity Analysis

<b>01/29/2009</b>	
Source Survey	18:54
OBS Deploy/Recovery	0:00
Source	3:56
Seismic Air Compressor	0:00
Turn/Transition	1:09
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:45	Survey line Test03
00:45	00:54	Turn/transition
00:54	10:01	Survey line Lau_A028
10:01	11:58	Turn/transition/source work
11:58	19:57	Survey line Lau_A027
19:57	22:56	Turn/transition/source work
22:56	24:00	Survey line Lau_A026

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

Pos	20 32.2367 S
	175 54.0128 W
HDG:	260.6 Deg
SPEED:	2.95 Kts



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

**Weather:**

Winds 5-10 kts.  
Seas 4-6'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Continued test survey line Test03. Surveyed lines Lau\_A028, Lau\_A027, began line Lau\_A026. Some source work between lines.

Magnetometer tow arrangement is deemed unsatisfactory by science party. Currently being towed down the middle between strings 2 and 3, 100m off the stern. Airguns are 150m off the stern. Source/Handling department is evaluating alternatives, which includes fabrication of a depressor.

Next 24 hours  
Survey lines A026, A025, A024.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 30 JAN 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>01/30/2009</b>	
Test03 – test line	0.000
Lau_A028	57.150
Lau_A027	67.050
Lau_A026	10.800
Total:	135.000

#### Time Activity Analysis

<b>01/30/2009</b>	
Source Survey	23:04
OBS Deploy/Recovery	0:00
Source	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:56
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	07:11	Survey line Lau_A026
07:11	07:41	Turn/transition
07:41	16:19	Survey line Lau_A025
16:19	16:45	Turn/transition
16:45	24:00	Survey line Lau_A024

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

Pos	20 31.3359 S
	176 23.0376 W
HDG:	288.9 Deg
SPEED:	4.5 Kts

#### Weather:

Winds	15 kts.
-------	---------



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

Seas 2-4'

### **Comments**

Local time is UTC+13.

#### **Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

#### **Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

#### **Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

#### **Daily Summary:**

Completed Lau\_A026, Surveyed lines Lau\_A025, began line Lau\_A024. No source work.

Magnetometer evaluation continues.

Next 24 hours

Complete line A024, survey lines A023, A022.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 31 JAN 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>01/31/2009</b>	
Test03 – test line	0.000
Lau_A028	57.150
Lau_A027	67.050
Lau_A026	10.800
Total:	135.000

#### Time Activity Analysis

<b>01/31/2009</b>	
Source Survey	21:38
OBS Deploy/Recovery	0:00
Source	0:42
Seismic Air Compressor	0:00
Turn/Transition	1:40
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:56	Survey line Lau_A024
01:07	01:31	Line A024 extended for source maintenance
01:31	02:04	Turn/transition
02:04	02:21	Line A023 extended for source maintenance
02:21	10:40	Survey line Lau_A023
10:40	11:13	Turn/transition
11:13	19:34	Survey line Lau_A022
19:34	20:08	Turn/transition
20:08	24:00	Survey line Lau_A021

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

Pos            20 40.3740 S  
                 176 11.9624 W





**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

HDG: 096.5 Deg  
SPEED: 4.1 Kts

**Weather:**

Winds 10 kts.  
Seas 2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed Lau\_A024, Surveyed lines Lau\_A023, Lau\_A022. Began line Lau\_A021.

Magnetometer evaluation continues. Prototype depressor wing fabricated.

Next 24 hours

Complete line A021, survey lines A020, A019, A018. Test magnetometer depressor wing.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 1 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>02/01/2009</b>	
Lau_A021	1.800
Lau_A022A	(7.200)
Lau_A021	39.150
Lau_A020	70.200
Lau_A019	52.650
Total:	163.800

#### Time Activity Analysis

<b>02/01/2009</b>	
Source Survey	19:53
OBS Deploy/Recovery	0:00
Source	3:05
Seismic Air Compressor	0:00
Turn/Transition	1:02
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:10	Survey line Lau_A021
00:10	00:10	Source Failure – air leak string 2
00:10	01:14	Continue survey line Lau_A021 – source work
01:14	01:42	Turn/transition – source work
01:42	02:47	Survey line A022A – source work
02:47	03:15	Turn/transition – source work
03:15	07:59	Survey line Lau_A021
07:59	08:30	Turn/transition
08:30	17:06	Survey line Lau_A020
17:06	17:37	Turn/transition
17:37	24:00	Survey line Lau_A019



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

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

Pos 20 47.1256 S  
176 00.7936 W  
HDG: 102.4 Deg  
SPEED: 4.5 Kts

**Weather:**

Winds 10 kts.  
Seas 2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed Lau\_A021, began line Lau\_A020. Significant air leak on string 2 forced us to recover and repair, and loop back to pre-failure point, shooting A022A enroute. Resumed A021, completed. Surveyed A020, and began A019.

Magnetometer depressor wing initial tests. Pulls well and stable. Depth instrumentation needed.

Next 24 hours  
Complete line A019, survey lines A018, A017, A016.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 2 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>02/02/2009</b>	
Lau_A019	4.050
Lau_A018	46.350
Lau_A017	46.350
Lau_ETurnsA	3.150
Lau_A016	44.550
Lau_WTurnB	3.600
Lau_A015	43.200
Total:	191.250

#### Time Activity Analysis

<b>02/02/2009</b>	
Source Survey	22:38
OBS Deploy/Recovery	0:00
Source	0:00
Seismic Air Compressor	0:00
Turn/Transition	1:22
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:28	Survey line A019
00:28	01:01	Turn/transition
01:01	06:27	Survey line A018
06:27	06:59	Turn/transition
06:59	12:32	Survey line A017
12:32	12:36	Turn/transition
12:36	12:56	Survey line EturnsA
12:56	13:00	Turn/transition
13:00	18:18	Survey line A016
18:18	18:25	Turn/transition
18:25	18:45	Survey line WturnB



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

18:45	18:47	Turn/transition
18:47	23:59	Survey line A015

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

Pos	20 56.3771 S
	176 00.8804 W
HDG:	099.7 Deg
SPEED:	5.0 Kts

**Weather:**

Winds	5 kts.
Seas	2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed Lau\_A019. Surveyed lines A018, A017, EturnA, A016, EturnB. Began line A015. Lines A018, A017, A016, A015 have been trimmed shorter

Next 24 hours

Complete line A015, survey lines A013, A012. Depressor wing depth tests.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 3 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>02/03/2009</b>	
Lau_A015	13.050
Lau_A014	68.850
Lau_A014A	12.150
Lau_A014B	13.950
Lau_A014C	37.800
Lau_A013	45.900
Total:	191.700

#### Time Activity Analysis

<b>02/03/2009</b>	
Source Survey	23:04
OBS Deploy/Recovery	0:00
Source	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:56
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	01:30	Survey line A015
01:30	02:11	Turn/transition
02:11	10:34	Survey line A014
10:34	10:44	Turn/transition
10:44	12:11	Survey line A014A
12:11	13:53	Survey line A014B
13:53	18:24	Survey line A014C
18:24	18:29	Turn/transition
18:29	00:00	Survey line A013

UTC Midnight (24:00) Position / Heading:



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Pos 20 43.9707 S  
175 59.9729 W  
HDG: 005.6 Deg  
SPEED: 4.6 Kts

**Weather:**

Winds 5 kts.  
Seas 2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed Lau\_A015. Surveyed lines A014, A014A, A014B, A014C. Began line A013.

Depressor wing depth test completed.

Next 24 hours

Complete line A013, survey lines A012, A011.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 4 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>02/04/2009</b>	
Lau_A013	35.550
Lau_A013A	4.500
Lau_A012	67.500
Lau_A012A	2.250
Lau_A011	69.300
Lau_A011A	2.700
Lau_A010	14.850
Total:	196.650

#### Time Activity Analysis

<b>02/04/2009</b>	
Source Survey	21:13
Source Survey/Source Maint.	02:08
Source Maint.	0:00
OBS Deploy/Recovery	0:00
Source	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:39
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	03:28	Survey line A013
03:28	03:28	Begin source work
03:28	04:19	Survey line A013 / Degraded
04:19	04:27	Turn/transition
04:27	04:55	Survey line A013A / Degraded / Turn line
04:55	04:58	Turn/transition
04:58	13:01	Survey line A012
13:01	13:11	Turn/transition
13:11	13:22	Survey line A012A / Turn line





Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

13:22	13:25	Turn/transition
13:25	21:23	Survey line A011
21:23	21:23	Begin gun work
21:23	21:43	Survey line A011 / Degraded
21:43	21:54	Turn/transition
21:54	22:11	Survey line A011A / Degraded / Turn line
22:11	22:15	Turn/transition
22:15	22:27	Survey line A010 / Degraded
22:27	22:27	End source work
22:27	00:00	Survey line A010

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

Pos 20 30.6979 S  
176 04.1638 W  
HDG: 185.7 Deg  
SPEED: 4.1 Kts

**Weather:**

Winds 5 kts.  
Seas 2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed Lau\_A013. Surveyed lines A013A, A012, A012A, A011, A011A. Began line A010.

Weather has been good. No major equipment problems. Some airgun work. Awaiting further evaluation of maggie data before reconfiguring tow configuration.

Next 24 hours

Complete line A010, survey lines A009, A008.



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 5 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>02/05/2009</b>	
Lau_A010	68.400
Lau_A010A	2.250
Lau_A009	83.700
Lau_A009A	4.050
Lau_A008	26.325
Total:	184.725

#### Time Activity Analysis

<b>02/05/2009</b>	
Source Survey	20:57
Source Survey/Source Maint.	1:39
OBS Deploy/Recovery	0:00
Source	0:59
Seismic Air Compressor	0:00
Turn/Transition	0:25
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	08:14	Survey line A010
08:14	08:20	Turn/transition
08:20	08:36	Survey line A010A
08:36	08:37	Turn/transition
08:37	18:39	Survey line A009
18:39	18:48	Turn/transition
18:48	19:06	Survey line A009A
19:06	19:15	Turn/transition
19:15	19:45	Survey line A008
19:45	19:45	Source failure – air leak S3 – continue line
19:45	21:24	Survey line A008 / Degraded
21:24	22:23	Source work – offline



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

22:23                      24:00                      Survey line A008

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

Pos                      20 42.9274 S  
                             176 09.7556 W  
HDG:                      192.0 Deg  
SPEED:                      4.6 Kts

**Weather:**

Winds                      5 kts.  
Seas                        2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed Lau\_A010. Surveyed lines A010A, A009, A009A, Began line A008. Developed a significant air leak string 3 near the beginning of line A008. After discussing with PI, PI decided to continue on line while leak was repaired. Simultaneous power/comms issues with string 2. These two issues kept us degraded (two sources firing) for 80 mins and off line for 59 mins.

After source repair, PI decided to continue line A008 at 475m spacing. He wishes to shoot the rest of the survey at a 475m shot spacing.

Next 24 hours  
Complete line A008, survey lines A007, A006.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 6 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km 0.00

**02/06/2009**

Lau\_A008 44.650

Lau\_A007 95.475

Lau\_A006 53.200

Total: 193.325

#### Time Activity Analysis

**02/06/2009**

Source Survey 23:17

Source Survey/Source Maint. 0:00

OBS Deploy/Recovery 0:00

Source 0:59

Seismic Air Compressor 0:00

Turn/Transition 0:43

Weather 0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	05:30	Survey line A008
05:30	05:44	Turn/transition
05:44	17:09	Survey line A007
17:09	17:38	Turn/transition
17:38	00:00	Survey line A006

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

Pos 20 44.3504 S  
176 12.4120 W

HDG: 193.8 Deg

SPEED: 4.4 Kts

#### Weather:



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Winds            5 kts.  
Seas             2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed Lau\_A008. Surveyed lines A007. Began line A006.

**Next 24 hours**

Complete line A006. Survey line A005 to latitude 20 23.5 S. Turn E and transition to line A008. Fill degraded section of line A008. Rejoin line A005 and continue survey.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 7 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km	0.00
<b>02/07/2009</b>	
Lau_A006	40.850
Lau_A006A	2.375
Lau_A005	81.225
Lau_A028A	5.700
Lau_A008R	26.125
Lau_A005A	26.600
Lau_A005	12.825
Total:	195.700

#### Time Activity Analysis

<b>02/07/2009</b>	
Source Survey	23:10
Source Survey/Source Maint.	0:00
OBS Deploy/Recovery	0:00
Source	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:50
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	04:58	Survey line A006
04:58	05:05	Turn/transition
05:05	05:17	Survey line A006A
05:17	05:18	Turn/transition
05:18	00:00	Survey line A005
15:03	15:15	Turn/transition
15:15	15:50	Survey line A028A
15:50	15:53	Turn/transition
15:53	18:59	Survey line A008R
18:59	19:19	Turn/transition



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

19:19	22:23	Survey line A005A
22:23	22:30	Turn/transition
22:30	24:00	Survey line A005

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

Pos	20 16.1748 S
	176 08.0696 W
HDG:	002.6 Deg
SPEED:	4.4 Kts

**Weather:**

Winds	5 kts.
Seas	2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed line A006. Surveyed line A005 to latitude 20 23.5 S. Turned E and transitioned to line A008. Filled degraded section of line A008. Rejoined line A005 and continued survey.

Next 24 hours

Complete line A005. Survey lines A004, A003.

Anthony Johnson





Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 8 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/08/2009**

Lau_A005	0.450
Lau_A005B	2.375
Lau_A004	63.650
Lau_A004A	1.900
Lau_A003	67.925
Lau_A003A	23.750
Lau_A002	42.750

Total: 202.800

#### Time Activity Analysis

**02/08/2009**

Source Survey	23:36
Source Survey/Source Maint.	0:00
OBS Deploy/Recovery	0:00
Source	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:24
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:06	Survey line A005
00:06	00:12	Turn/transition
00:12	00:23	Survey line A005B
00:23	00:25	Turn/transition
00:25	10:01	Survey line A004
10:01	10:09	Turn/transition
10:09	10:21	Survey line A004A
10:21	10:23	Turn/transition
10:23	18:32	Survey line A003
18:32	18:35	Turn/transition



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

18:35	18:51	Survey line A003A
18:51	18:54	Turn/transition
18:54	00:00	Survey line A002

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

Pos	20 43.5807 S
	176 19.3085 W
HDG:	189.4 Deg
SPEED:	4.4 Kts

**Weather:**

Winds	5 kts.
Seas	2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed line A005. Surveyed line A005A, A004, A004A, A003, A003A. Began survey line A002.

Next 24 hours

Complete line A002. Survey lines A001, A001A, A001B. Recover source and prepare for OBS recovery.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 9 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/09/2009**

Lau_A002	39.900
Lau_A002A	1.425
Lau_A001	83.125
Lau_A001A	31.350
Lau_A001B	19.950

Total: 176.35

#### Time Activity Analysis

**02/09/2009**

Source Survey	21:03
Source Survey/Source Maint.	0:00
Source Recovery	0:44
OBS Deploy/Recovery	1:10
Source Maint	0:00
Seismic Air Compressor	0:00
Turn/Transition	1:03
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	04:51	Survey line A002
04:51	05:13	Turn/transition
05:13	05:21	Survey line A002A
05:21	05:24	Turn/transition
05:24	15:26	Survey line A001
15:26	15:45	Turn/transition
15:45	19:26	Survey line A001A
19:26	19:30	Turn/transition
19:30	21:51	Survey line A001B
21:51	21:54	Turn/transition
21:54	22:38	Source recovery



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

22:38	18:54	Turn/transition
18:54	00:00	Recover OBS #55
23:58	00:00	Transit to next

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

Pos	20 41.0033 S
	176 21.5915 W
HDG:	189.4 Deg
SPEED:	2.86 Kts

**Weather:**

Winds	5 kts.
Seas	2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed line A002. Surveyed lines A001, A001A, A001B. Recovered source Began OBS recovery.

Next 24 hours  
Recover OBS's.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 10 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/10/2009**

No survey 0.000  
Total: 0.000

#### Time Activity Analysis

**02/10/2009**

Source Survey 0:00  
Source Survey/Source Maint. 0:00  
Source Recovery 0:00  
OBS Deploy/Recovery 24:00  
Source Maint 0:00  
Seismic Air Compressor 0:00  
Turn/Transition 0:00  
Weather 0:00  
Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:21	Transit to next
00:21	01:04	Arrive on site
01:04	01:25	Recovering OBS
01:25	01:28	OBS 49 hooked
01:28	01:29	OBS 49 on deck
01:29	01:55	Transit to next
01:55	02:24	Arrive on site
02:24	03:18	Recovering OBS
03:18	03:21	OBS 54 hooked
03:21	03:30	OBS 54 on deck
03:30	03:56	Transit to next
03:56	04:17	Arrive on site
04:17	04:55	Recovering OBS
04:55	04:57	OBS 50 hooked
04:57	04:59	OBS 0 on deck



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

04:59	05:26	Transit to next
05:26	05:45	Arrive on site
05:45	06:26	Recovering OBS
06:26	06:27	OBS 53 hooked
06:27	06:29	OBS 53 on deck
06:29	06:50	Transit to next
06:50	07:11	Arrive on site
07:11	07:54	Recovering OBS
07:54	07:55	OBS 52 hooked
07:55	07:56	OBS 52 on deck
07:56	08:24	Transit to next
08:24	09:25	Arrive on site
09:25	09:26	OBS 51 hooked
09:26	09:27	OBS 51 on deck
09:27	09:45	Transit to next
09:45	11:00	Arrive on site
11:00	11:04	OBS 26 hooked
11:04	11:09	OBS 26 on deck
11:09	11:36	Transit to next
11:36	11:49	Arrive on site
11:49	12:18	Recovering OBS
12:18	12:29	OBS 25 on deck
12:29	12:42	Transit to next
12:42	13:03	Arrive on site
13:03	13:37	Recovering OBS
13:37	13:40	OBS 27 hooked
13:40	13:45	OBS 27 on deck
13:45	14:00	Transit to next
14:00	14:41	Arrive on site
14:41	15:15	Recovering OBS
15:15	15:18	OBS 28 hooked
15:18	15:19	OBS 28 on deck
15:19	15:38	Transit to next
15:38	15:58	Arrive on site
15:58	16:27	Recovering OBS
16:27	16:34	OBS 29 hooked
16:34	16:38	OBS 29 on deck
16:38	17:01	Transit to next
17:01	17:25	Arrive on site
17:25	17:56	Recovering OBS
17:56	17:58	OBS 30 hooked
17:58	18:04	OBS 30 on deck
18:04	18:21	Transit to next
18:21	19:03	Arrive on site



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

19:03	19:55	Recovering OBS
19:55	20:08	OBS 31 on deck
20:08	20:34	Transit to next
20:34	20:55	Arrive on site
20:55	21:28	Recovering OBS
21:28	21:33	OBS 18 hooked
21:33	21:38	OBS 18 on deck
21:38	21:56	Transit to next
21:56	22:19	Arrive on site
22:19	22:41	Recovering OBS
22:41	22:45	OBS 19 hooked
22:45	22:49	OBS 19 on deck
22:49	23:07	Transit to next
23:07	23:18	Arrive on site
23:18	00:00	Recovering OBS

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

Pos 20 47.3790 S  
176 09.4419 W  
HDG: 103.6 Deg  
SPEED: 2.64 Kts

**Weather:**

Winds 5 kts.  
Seas 2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

OBS recovery. Recovered 15 instruments.

Next 24 hours



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

Recover OBS's. Deploy magnetometer, transit to 2<sup>nd</sup> OBS deployment site.

Anthony Johnson





Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 11 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/11/2009**

No survey 0.000  
Total: 0.000

#### Time Activity Analysis

**02/11/2009**

Source Survey 0:00  
Source Survey/Source Maint. 0:00  
Source Recovery 0:00  
OBS Recovery 12:11  
OBS Deploy 5:07  
Source Maint 0:00  
Seismic Air Compressor 0:00  
Turn/Transition 6:42  
Weather 0:00  
Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:06	Anchor released
00:06	00:08	OBS # 20 hooked
00:08	00:10	OBS # 20 hooked
00:10	00:31	Transit to next
00:31	00:41	Arrive on site
00:41	01:38	Anchor released
01:38	01:39	OBS # 21 hooked
01:39	01:43	OBS # 21 on deck
01:43	02:03	Transit to next
02:03	02:07	Arrive on site
02:07	02:51	Anchor released
02:51	02:53	OBS # 22 hooked
02:53	02:58	OBS # 22 on deck
02:58	03:19	Transit to next



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

03:19	03:24	Arrive on site
03:24	04:13	Anchor released
04:13	04:16	OBS # 24 hooked
04:16	04:17	OBS # 24 on deck
04:17	04:42	Transit to next
04:42	04:48	Arrive on site
04:48	05:47	Anchor released
05:47	05:49	OBS # 23 hooked
05:49	05:51	OBS # 23 on deck
05:51	06:15	Transit to next
06:15	06:36	Arrive on site
06:36	07:18	Anchor released
07:18	07:20	OBS # 01 hooked
07:20	07:23	OBS # 01 on deck
07:23	07:52	Transit to next
07:52	07:57	Arrive on site
07:57	09:07	Anchor released
09:07	09:09	OBS # 02 hooked
09:09	09:12	OBS # 02 on deck
09:12	09:35	Transit to next
09:35	10:11	Arrive on site
10:11	10:38	Anchor released
10:38	10:40	OBS # 03 hooked
10:40	10:44	OBS # 03 on deck
10:44	11:07	Transit to next
11:07	11:32	Arrive on site
11:32	12:03	Anchor released
12:03	12:08	OBS # 04 hooked
12:08	12:11	OBS # 04 on deck
12:11	18:53	Transit to next
18:53	19:07	Deploying OBS
19:07	19:15	OBS # 60 released
19:15	19:55	Transit to next
19:55	20:12	Deploying OBS
20:12	20:28	OBS # 61 released
20:28	21:04	Transit to next
21:04	21:18	Deploying OBS
21:18	21:27	OBS # 62 released
21:27	21:53	Transit to next
21:53	22:14	Deploying OBS
22:14	22:24	OBS # 63 released
22:24	23:11	Transit to next
23:11	23:21	Deploying OBS
23:21	23:30	OBS # 64 released



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

23:30	23:49	Transit to next
23:49	00:00	Deploying OBS

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

POS	20 12.5659 S
	176 12.0885 W
HDG:	181.1 Deg
SPEED:	6.5 Kts

**Weather:**

Winds	5 kts.
Seas	2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Finished OBS recovery, All 25 instruments recovered. Deployed magnetometer, steamed to Northern deployment site. Recovered maggie, began OBS deployment. Five OBS's deployed of up to 25.

Next 24 hours  
Deploy OBS's.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 12 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/12/2009**

Lau\_B001 1.500  
Total: 0.000

#### Time Activity Analysis

**02/12/2009**

Source Survey	0:12
Source Survey/Source Maint.	0:00
Source Recovery	0:00
Source Deploy	4:21
OBS Recovery	0:00
OBS Deploy	14:13
OBS Delay	0:30
Source Maint	1:05
Seismic Air Compressor	0:00
Turn/Transition	0:48
Magnetometer Survey	2:51
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:12	Deploying OBS
00:12	00:21	OBS # 65 released
00:21	00:59	Transit to next
00:59	00:59	Deploying OBS
00:59	01:11	Delayed
01:11	01:18	OBS # 66 released
01:18	01:44	Transit to next
01:44	01:51	Deploying OBS
01:51	01:56	OBS # 67 released
01:56	02:13	Transit to next



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

02:13	02:23	Deploying OBS
02:23	02:31	OBS # 68 released
02:31	02:45	Transit to next
02:45	02:52	Deploying OBS
02:52	02:59	Deploying OBS
02:59	03:05	OBS # 69 released
03:05	03:11	Transit to next
03:11	03:25	Deploying OBS
03:25	03:34	Deploying OBS
03:34	03:41	OBS # 70 released
03:41	03:53	Transit to next
03:53	04:08	Deploying OBS
04:08	04:12	OBS # 71 released
04:12	04:35	Transit to next
04:35	05:05	OBS Delay
05:05	05:09	Deploying OBS
05:09	05:14	OBS # 72 released
05:14	05:33	Transit to next
05:33	05:46	Deploying OBS
05:46	05:50	OBS # 73 released
05:50	06:05	Transit to next
06:05	06:26	Deploying OBS
06:26	06:36	OBS # 74 released
06:36	06:58	Transit to next
06:58	07:20	Deploying OBS
07:20	07:38	OBS # 75 released
07:38	07:59	Transit to next
07:59	08:19	Deploying OBS
08:19	08:30	OBS # 76 released
08:30	08:52	Transit to next
08:52	09:08	Deploying OBS
09:08	09:19	OBS # 77 released
09:19	09:43	Transit to next
09:43	10:01	Deploying OBS
10:01	10:15	OBS # 78 released
10:15	10:38	Transit to next
10:38	10:55	Deploying OBS
10:55	11:04	OBS # 79 released
11:04	11:19	Transit to next
11:19	11:38	Deploying OBS
11:38	11:47	OBS # 80 released
11:47	12:06	Transit to next
12:06	12:25	Deploying OBS
12:25	12:34	OBS # 81 released



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

12:34	12:51	Transit to next
12:51	13:10	Deploying OBS
13:10	13:20	OBS # 82 released
13:20	13:34	Transit to next
13:34	13:52	Deploying OBS
13:52	14:02	OBS # 83 released
14:02	14:24	Transit to next
14:24	14:34	Deploying OBS
14:34	14:43	OBS # 84 released
14:43	14:57	Transition to maggie survey waypoint/Deploy maggie
14:57	17:48	Magnetometer survey
17:48	21:17	Deploy Source
21:17	21:48	Source Maintenance
21:48	22:22	Turn/Transition
22:22	22:56	Source Maintenance
22:56	23:48	Source Deploy – Gun QC
23:48	24:00	Survey Line B001

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

POS                    20 37.0771 S  
                             175 58.4978 W  
HDG:                010.1 Deg  
SPEED:             4.7 Kts

**Weather:**

Winds                5 kts.  
Seas                  2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Finished OBS Deploy, All 25 instruments deployed. Deployed magnetometer, steamed south at 8knots to source deploy point. Deployed source. Begin survey line B001

R Dunn requested that the shot spacing be increased to 500m for the rest of the survey.

Next 24 hours  
Complete survey line B001. Survey lines B001A, B002, B002A, B003, B003A. Begin survey line B004.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 13 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/13/2009**

Lau_B001	65.500
Lau_B001A	2.000
Lau_B002	78.000
Lau_B002A	3.000
Lau_B003	48.500
Total:	197.000

#### Time Activity Analysis

**02/13/2009**

Source Survey	21:53
Source Survey/Source Maint.	1:45
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:22
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	07:35	Survey line B001
07:35	07:35	Begin source work
07:35	07:56	Survey line B001 / Degraded
07:56	07:59	Turn/transition
07:59	08:26	Survey line B001A / Degraded
08:26	08:37	Turn/transition
08:37	09:34	Survey line B002 / Degraded





**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

09:34	09:34	End source work
09:34	17:47	Survey line B002
17:47	17:50	Turn/transition
17:50	18:08	Survey line B002A
18:08	18:13	Turn/transition
18:13	24:00	Survey line B003

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

POS 20 17.6079 S  
175 58.3698 W  
HDG: 009 Deg  
SPEED: 4.5 Kts

**Weather:**

Winds 5 kts.  
Seas 2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B001. Survey lines B001A, B002, B002A.. Begin survey line B003.

Next 24 hours

Complete survey line B003. Survey lines B003A, B004, B004A. Begin survey line B005.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 14 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/14/2009**

Lau_B003	21.000
Lau_B004	72.500
Lau_B004A	2.500
Lau_B005	78.500
Lau_B005A	2.500
Lau_B006	17.500

Total: 194.500

#### Time Activity Analysis

**02/14/2009**

Source Survey	21:53
Source Survey/Source Maint.	1:45
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:22
Magnetometer Survey	0:00
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	02:31	Survey line B003
02:31	02:41	Source work
02:41	03:01	Turn/transition
03:01	03:12	Source work
03:12	11:48	Survey line B004
11:48	11:51	Turn/transition



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

11:51	12:07	Survey line B004A
12:07	12:13	Turn/transition
12:13	21:35	Survey line B005
21:35	21:39	Turn/transition
21:39	21:55	Survey line B005A
21:55	21:57	Turn/transition
21:57	00:00	Survey line A006

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

POS 20 09.1884 S  
175 01.8395 W  
HDG: 193.5 Deg  
SPEED: 4.5 Kts

**Weather:**

Winds 5 kts.  
Seas 2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Complete survey line B003. Survey lines B003A, B004, B004A, B005, B005A. Begin survey line B006.

Next 24 hours

Complete survey line B006. Survey lines B006A, B007, B007A. Begin survey line B008.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

## Daily Report for 15 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/15/2009**

Lau_B006	65.000
Lau_B006A	3.500
Lau_B007	81.000
Lau_B007A	3.000
Lau_B008	19.500
Total:	172.500

#### Time Activity Analysis

**02/15/2009**

Source Survey	22:07
Source Survey/Source Maint.	01:15
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:38
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	06:07	Survey line B006
06:07	06:07	Avert fishing gear – minor course change
06:07	07:25	Survey line B006
07:25	07:25	Begin source work
07:25	07:48	Survey line B006 / Degraded
07:48	07:49	Turn/transition
07:49	08:13	Survey line B006A / Degraded / Turn line



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

08:13	08:37	Turn/transition
08:37	09:03	Survey line B007 / Degraded
09:03	09:03	End source work
09:03	18:17	Survey line B007
18:17	18:23	Turn/transition
18:23	18:27	Survey line A007A / Degraded
18:27	18:39	Survey line A007A
18:39	18:44	Turn/transition
18:44	00:00	Survey line A008

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

POS                      20 09.1884 S  
                              175 01.8395 W  
HDG:                    193.5 Deg  
SPEED:                 4.5 Kts

**Weather:**

Winds                  5 kts.  
Seas                    2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B006. Surveyed lines B006A, B007, B007A. Began survey line B008.

Next 24 hours

Complete survey line B008. Survey lines B008A, B009, B009A. Begin survey line B010.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 16 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/16/2009**

Lau_B008	45.500
Lau_B009	82.000
Lau_B009A	2.500
Lau_B010	55.000
Total:	185.500

#### Time Activity Analysis

**02/16/2009**

Source Survey	20:46
Source Survey/Source Maint.	1:16
Source Maint	1:29
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:36
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	04:18	Survey line B008
04:18	04:18	Begin source work
04:18	05:27	Survey line B008 / Degraded
05:27	05:52	Turn/transition
05:52	07:21	Source work
07:21	07:28	Survey line B009 / Degraded
07:28	16:55	Survey line B009
16:55	16:58	Turn/transition



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

16:58	17:16	Survey line B009A
17:16	17:17	Turn/transition
17:17	00:00	Survey line B010

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

POS	20 27.7260 S
	176 12.9287 W
HDG:	187.3 Deg
SPEED:	4.76 Kts

**Weather:**

Winds	5 kts.
Seas	3-5'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B008. Surveyed lines B009, B009A. Began survey line B010.

Next 24 hours

Complete survey line B010. Survey lines B010A, B011, B011A. Begin survey line B012.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 17 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/17/2009**

Lau_B010	24.000
Lau_B010A	1.500
Lau_B011	67.000
Lau_B011A	3.500
Lau_B012	53.500
Lau_B012A	2.500
Lau_B013	38.500
Total:	190.500

#### Time Activity Analysis

**02/17/2009**

Source Survey	21:39
Source Survey/Source Maint.	1:41
Source Maint	0:10
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:30
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	02:54	Survey line B010
02:54	02:57	Turn/transition
02:57	03:05	Survey line B010A
03:05	03:19	Turn/transition
03:19	06:33	Survey line B011





Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

06:33	06:43	Source failure – S3 comm errors, all guns set to internal cycle
06:43	07:04	Survey line B011 – Degraded
07:04	07:04	Begin source repair
07:04	08:24	Survey line B011 – Degraded
08:24	08:24	End source repair
08:24	12:07	Survey line B011
12:07	12:10	Turn/transition
12:10	12:33	Survey line B011A
12:33	12:39	Turn/transition
12:39	19:04	Survey line B012
19:04	19:07	Turn/transition
19:07	19:24	Survey line B012A
19:24	19:25	Turn/transition
19:25	24:00	Survey line B013

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

POS 20 11.4139 S  
176 15.2575 W  
HDG: 009.3 Deg  
SPEED: 4.6 Kts

**Weather:**

Winds 5 kts.  
Seas 2-4'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B010. Surveyed lines B010A, B011, B011A, B012, B012A. Began survey line B013.

Next 24 hours



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Complete survey line B013. Survey lines B013A, B014. Complete N/S lines of Phase 2, begin E/W lines.  
Survey line B014A. Begin survey line B015.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

## Daily Report for 18 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/18/2009**

Lau_B013	29.500
Lau_B013A	2.500
Lau_B014	65.000
Lau_B014A	23.000
Lau_B015	69.500
Total:	189.500

#### Time Activity Analysis

**02/18/2009**

Source Survey	21:57
Source Survey/Source Maint.	0:47
Source Maint	0:30
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:46
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	03:13	Survey line B013
03:13	03:13	Begin source work
03:13	03:41	Survey line B013/ Degraded
03:41	03:45	Turn/transition
03:45	04:04	Survey line B013A / Degraded / Turn line
04:04	04:15	Turn/transition
04:15	04:45	Source work



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

04:45	12:32	Survey line B014
12:32	12:55	Turn/transition
12:55	15:38	Survey line B014A / Transition to EW lines
15:38	15:46	Turn/transition
15:46	24:00	Survey line B015

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

POS                      20 26.6770 S  
                             175 46.6988 W  
HDG:                    106.6 Deg  
SPEED:                4.4 Kts

**Weather:**

Winds                  5 kts.  
Seas                    4-6'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B013. Surveyed lines B013A, B014, B014A. Began survey line B015.

Next 24 hours

Complete survey line B015. Survey lines B015A, B016, B016A, B017, B017A. Begin survey line B018.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

## Daily Report for 18 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/18/2009**

Lau_B013	29.500
Lau_B013A	2.500
Lau_B014	65.000
Lau_B014A	23.000
Lau_B015	69.500
Total:	189.500

#### Time Activity Analysis

**02/18/2009**

Source Survey	21:36
Source Survey/Source Maint.	1:08
Source Maint	0:30
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:46
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	03:13	Survey line B013
03:13	03:13	Begin source work
03:13	03:41	Survey line B013/ Degraded
03:41	03:45	Turn/transition
03:45	04:04	Survey line B013A / Degraded / Turn line
04:04	04:15	Turn/transition
04:15	04:45	Source work



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

04:45	12:32	Survey line B014
12:32	12:55	Turn/transition
12:55	15:38	Survey line B014A / Transition to EW lines
15:38	15:46	Turn/transition
15:46	23:39	Survey line B015
23:39	23:39	Begin source work
23:39	24:00	Survey line B015 / Degraded

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

POS 20 26.6770 S  
175 46.6988 W  
HDG: 106.6 Deg  
SPEED: 4.4 Kts

**Weather:**

Winds 5 kts.  
Seas 4-6'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B013. Surveyed lines B013A, B014, B014A. Began survey line B015.

Next 24 hours

Complete survey line B015. Survey lines B015A, B016, B016A, B017, B017A. Begin survey line B018.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 19 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/19/2009**

Lau_B015	2.500
Lau_B015A	2.500
Lau_B016	71.500
Lau_B016A	3.500
Lau_B017	75.000
Lau_B017A	3.500
Lau_B018	29.500
Total:	188.000

#### Time Activity Analysis

**02/19/2009**

Source Survey	20:15
Source Survey/Source Maint.	1:46
Source Maint	0:47
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	1:12
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:19	Survey line B015 / Degraded
00:19	00:38	Turn/transition
00:38	00:50	Survey line B015A / Degraded / Turn line
00:50	01:05	Turn/transition
01:05	01:17	Source maintenance



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

01:17	09:16	Survey line B016
09:16	09:16	Begin source work
09:16	09:44	Survey line B016 / Degraded
09:44	09:47	Turn/transition
09:47	10:10	Survey line B016A / Degraded
10:10	10:13	Turn/transition
10:13	18:39	Survey line B017
18:39	19:14	Begin source work
18:39	19:14	Survey line B017 / Degraded
19:14	19:16	Turn/transition
19:16	19:40	Survey line B017A / Degraded / Turn line
19:40	20:00	Turn/transition
20:00	20:00	End source work
20:00	20:10	Turn/transition
20:10	24:00	Survey line B018

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

POS 20 16.6391 S  
176 03.0587 W  
HDG: 276.4 Deg  
SPEED: 4.6 Kts

**Weather:**

Winds 10-15 kts.  
Seas 5-7'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B015. Surveyed lines B015A, B016, B016A, B017, B017A. Began survey line B018.

Next 24 hours





**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

Complete survey line B018. Survey lines B018A, B019, B19A, B020, B021A. Begin survey line B022.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 20 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/20/2009**

Lau_B018	30.000
Lau_B018A	3.000
Lau_B019	43.500
Lau_B019A	3.000
Lau_B020	55.500
Lau_B020A	3.500
Lau_B021	54.000

Total: 192.500

#### Time Activity Analysis

**02/20/2009**

Source Survey	23:00
Source Survey/Source Maint.	0:00
Source Maint	0:45
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:15
Magnetometer Survey	0:00
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	03:33	Survey line B018
03:33	03:37	Turn/transition
03:37	03:55	Survey line B018A
03:55	03:55	Source string 4 tow point parted
03:55	04:40	Source work – repair tow point



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

04:40	10:00	Survey line B019
10:00	10:04	Turn/transition
10:04	10:22	Survey line B019A
10:22	10:24	Turn/transition
10:24	17:04	Survey line B020
17:04	17:06	Turn/transition
17:06	17:29	Survey line B020A
17:29	17:32	Turn/transition
17:32	00:00	Survey line B021

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

POS 20 11.6371 S  
175 52.9316 W  
HDG: 103.0 Deg  
SPEED: 4.7 Kts

**Weather:**

Winds 10-15 kts.  
Seas 5-7'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B018. While turning on to line 18A, towpoint grip on string 4 failed. Recovered string up to towpoint and replaced grip. Surveyed lines B018A, B019, B19A, B020, B020A. Began survey line B021.

**Next 24 hours**

Complete survey line B021. Survey lines B021A, B022, B22A, B023A. Begin survey line B006R.

B021 is final line in phase B. R Dunn has provided additional lines to extend the survey. Survey should finish around UTC midnight on the 24<sup>th</sup>.



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 21 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/21/2009**

Lau_B021	20.500
Lau_B021A	1.500
Lau_B022	69.500
Lau_B022A	2.500
Lau_B023A	36.500
Lau_B006R	61.000

Total: 191.500

#### Time Activity Analysis

**02/21/2009**

Source Survey	22:00
Source Survey/Source Maint.	0:39
Source Maint	0:43
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:38
Magnetometer Survey	0:00
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	01:51	Survey line B021
01:51	01:51	Begin source work
01:51	02:23	Survey line B021 / Degraded
02:23	02:26	Turn/transition
02:26	02:33	Survey line B021A / Degraded / Turn line
02:33	02:40	Turn/transition



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

02:40	03:23	Source work
03:23	03:23	End source work
03:23	11:39	Survey line B022
11:39	11:47	Turn/transition
11:47	12:02	Survey line B022A
12:02	12:16	Turn/transition
12:16	16:36	Survey line B023A
16:36	16:42	Turn/transition
16:42	24:00	Survey line B006R

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

POS 20 38.1551 S  
176 08.1301 W  
HDG: 191.5 Deg  
SPEED: 5.04 Kts

**Weather:**

Winds 5-10 kts.  
Seas 3-5'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B021. Surveyed lines B021A, B022, B22A, B023A. Began survey line B006R.

Two additional lines added to end of survey to finish ~1400Z on the 24<sup>th</sup>.

Next 24 hours

Completed survey line B006R. Survey lines B007R, B023B. Begin survey line B002R.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 22 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/22/2009**

Lau_B006R	30.000
Lau_B006RA	0.500
Lau_B007R	90.500
Lau_B023B	16.000
Lau_B002R	58.000
Total:	195.000

#### Time Activity Analysis

**02/22/2009**

Source Survey	23:12
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:48
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	03:35	Survey line B006R
03:35	03:41	Turn/transition
03:41	03:41	Survey line B006RA
03:41	04:06	Turn/transition
04:06	14:54	Survey line B007R
14:54	14:57	Turn/transition
14:57	16:49	Survey line B023A



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

16:49	17:03	Turn/transition
17:03	00:00	Survey line B002R

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

POS	20 38.3964 S
	176 00.5359 W
HDG:	188.8 Deg
SPEED:	4.97 Kts

**Weather:**

Winds	10-15 kts.
Seas	3-5'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B006R. Surveyed lines B006RA, B007R, B23B. Began survey line B002R.

Still scheduled to finish ~1400Z on the 24<sup>th</sup>.

Next 24 hours

Completed survey line B002R. Survey lines B015R, B013R, B024A. Begin survey line B023A.

Anthony Johnson





Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 23 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/23/2009**

Lau_B002R	32.000
Lau_B015R	34.000
Lau_A001R	37.500
Lau_B013B	58.000
Lau_B024A	1.000
Lau_B012R	34.000

Total: 196.500

#### Time Activity Analysis

**02/23/2009**

Source Survey	21:20
Source Survey/Source Maint.	1:19
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	1:21
Magnetometer Survey	0:00
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	03:46	Survey line B002R
03:46	03:46	Begin source work
03:46	03:48	Survey line B002R / Degraded
03:48	04:08	Turn/transition
04:08	04:08	Survey line B007R / Degraded / Turn line
04:08	04:21	Turn/transition



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

04:21	05:00	Survey line B015R / Degraded
05:00	05:00	End source work
05:00	07:57	Survey line B015R
07:57	08:12	Turn/transition
08:12	12:25	Survey line A001R
12:25	12:28	Turn/transition
12:28	19:19	Survey line B013R
19:19	19:24	Begin source work
19:24	19:24	Survey line B013R / Degraded
19:24	19:39	Turn/transition
19:39	19:43	Survey line B024A / Degraded
19:43	19:58	Turn/transition
19:58	20:27	Survey line B012R / Degraded
20:27	20:27	End source work
20:27	00:00	Survey line B012R

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

POS                    20 19.9600 S  
                          176 15.3244 W  
HDG:                184.8 Deg  
SPEED:            5.0 Kts

**Weather:**

Winds              10-15 kts.  
Seas                3-5'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B002R. Surveyed lines B015R, A001R, B013R, B024R. Began survey line B012R.

Still scheduled to finish ~1400Z on the 24<sup>th</sup>.



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Next 24 hours  
Complete survey line B012R. Survey lines B011R, B024A. Complete source survey and recover source.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

## Daily Report for 24 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/24/2009**

Lau_B012R	32.000
Lau_B011R	34.000
Lau_B024A	37.500
Lau_B013B	58.000
Total:	196.500

#### Time Activity Analysis

**02/24/2009**

Source Survey	14:30
Source Survey/Source Maint.	1:19
Source Maint	0:00
Source Recovery	1:30
Source Deploy	0:00
OBS Recovery	6:38
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	1:22
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	02:44	Survey line B012R
02:44	03:13	Turn/transition
03:13	10:01	Survey line B011R
10:01	10:07	Turn/transition
10:07	15:05	Survey line B024A



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

15:05	15:21	Turn/transition
15:21	16:48	Begin source recovery
16:48	16:51	End source recovery
16:51	17:22	PAM on board, transit to OBS site 84
17:22	17:35	Arrive on site
17:35	17:52	Anchor released
17:52	18:20	Anchor released
18:20	18:23	OBS # 84 hooked
18:23	18:26	OBS # 84 on deck
18:26	18:43	Transit to next
18:43	19:10	Arrive on site
19:10	19:46	Anchor released
19:46	19:48	OBS # 83 hooked
19:48	19:52	OBS # 83 on deck
19:52	20:12	Transit to next
20:12	20:32	Arrive on site
20:32	21:16	Anchor released
21:16	21:19	OBS # 82 hooked
21:19	21:21	OBS # 82 on deck
21:21	21:44	Transit to next
21:44	22:05	Arrive on site
22:05	22:36	Anchor released
22:36	22:39	OBS # 81 hooked
22:39	22:42	OBS # 81 on deck
22:42	23:08	Transit to next
23:08	23:47	Arrive on site
23:47	00:00	Anchor released

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

POS                    20 26.9134 S  
                          1765 56.3943 W  
HDG:                54.9 Deg  
SPEED:             0.7 Kts

**Weather:**

Winds              10-15 kts.  
Seas                3-5'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Completed survey line B012R. Surveyed lines B011R, B024A. Recovered source, began OBS recovery. Four of 59 instruments recovered.

Next 24 hours  
Recover OBS instruments.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 25 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/25/2009**

No survey

Total: 0.000

#### Time Activity Analysis

**02/25/2009**

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	24:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:21	Anchor released
00:21	00:23	OBS # 08 hooked
00:23	00:24	OBS # 08 on deck
00:24	00:45	Transit to next
00:45	01:04	Arrive on site
01:04	01:42	Anchor released
01:42	01:44	OBS # 07 hooked
01:44	01:46	OBS # 07 on deck
01:46	02:10	Transit to next
02:10	02:29	Arrive on site
02:29	03:25	Anchor released



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

03:25	03:27	OBS # 06 hooked
03:27	03:28	OBS # 06 on deck
03:28	03:49	Transit to next
03:49	04:09	Arrive on site
04:09	04:49	Anchor released
04:49	04:52	OBS # 05 hooked
04:52	04:53	OBS # 05 on deck
04:53	05:19	Transit to next
05:19	05:42	Arrive on site
05:42	06:19	Anchor released
06:19	06:22	OBS # 17 hooked
06:22	06:23	OBS # 17 on deck
06:23	06:57	Transit to next
06:57	07:15	Arrive on site
07:15	07:52	Anchor released
07:52	07:55	OBS # 32 hooked
07:55	07:56	OBS # 32 on deck
07:56	08:26	Transit to next
08:26	08:49	Arrive on site
08:49	09:19	Anchor released
09:19	09:21	OBS # 48 hooked
09:21	09:22	OBS # 48 on deck
09:22	09:49	Transit to next
09:49	10:09	Arrive on site
10:09	10:45	Anchor released
10:45	10:48	OBS # 56 hooked
10:48	10:49	OBS # 56 on deck
10:49	11:13	Transit to next
11:13	11:43	Arrive on site
11:43	12:12	Anchor released
12:12	12:17	OBS # 57 hooked
12:17	12:19	OBS # 57 on deck
12:19	12:40	Transit to next
12:40	13:06	Arrive on site
13:06	13:46	Anchor released
13:46	13:48	OBS # 58 hooked
13:48	13:51	OBS # 58 on deck
13:51	14:10	Transit to next
14:10	14:38	Arrive on site
14:38	15:38	Anchor released
15:38	15:42	OBS # 59 hooked
15:42	15:47	OBS # 59 on deck
15:47	16:10	Transit to next
16:10	16:15	Arrive on site





Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

16:15	17:14	Anchor released
17:14	17:16	OBS # 60 hooked
17:16	17:20	OBS # 60 on deck
17:20	17:43	Transit to next
17:43	18:05	Arrive on site
18:05	18:40	Anchor released
18:40	18:43	OBS # 61 hooked
18:43	18:46	OBS # 61 on deck
18:46	19:04	Transit to next
19:04	19:48	Arrive on site
19:48	19:58	Anchor released
19:58	20:00	OBS # 62 hooked
20:00	20:03	OBS # 62 on deck
20:03	20:25	Transit to next
20:25	20:50	Arrive on site
20:50	21:21	Anchor released
21:21	21:23	OBS # 63 hooked
21:23	21:25	OBS # 63 on deck
21:25	21:47	Transit to next
21:47	22:20	Arrive on site
22:20	22:47	Anchor released
22:47	22:49	OBS # 64 hooked
22:49	22:50	OBS # 64 on deck
22:50	23:10	Transit to next
23:10	23:29	Arrive on site
23:29	00:00	Anchor released

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

POS                    20 06.5260 S  
                          176 08.0237 W  
HDG:                72.4 Deg  
SPEED:            1.62 Kts

**Weather:**

Winds              10-15 kts.  
Seas                3-5'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Twenty OBS instruments recovered. 24 total recovered this deployment, 35 remain.

Next 24 hours  
Recover OBS instruments.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 25 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/25/2009**

No survey

Total: 0.000

#### Time Activity Analysis

**02/25/2009**

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	24:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:21	Anchor released
00:21	00:23	OBS # 08 hooked
00:23	00:24	OBS # 08 on deck
00:24	00:45	Transit to next
00:45	01:04	Arrive on site
01:04	01:42	Anchor released
01:42	01:44	OBS # 07 hooked
01:44	01:46	OBS # 07 on deck
01:46	02:10	Transit to next
02:10	02:29	Arrive on site
02:29	03:25	Anchor released



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

03:25	03:27	OBS # 06 hooked
03:27	03:28	OBS # 06 on deck
03:28	03:49	Transit to next
03:49	04:09	Arrive on site
04:09	04:49	Anchor released
04:49	04:52	OBS # 05 hooked
04:52	04:53	OBS # 05 on deck
04:53	05:19	Transit to next
05:19	05:42	Arrive on site
05:42	06:19	Anchor released
06:19	06:22	OBS # 17 hooked
06:22	06:23	OBS # 17 on deck
06:23	06:57	Transit to next
06:57	07:15	Arrive on site
07:15	07:52	Anchor released
07:52	07:55	OBS # 32 hooked
07:55	07:56	OBS # 32 on deck
07:56	08:26	Transit to next
08:26	08:49	Arrive on site
08:49	09:19	Anchor released
09:19	09:21	OBS # 48 hooked
09:21	09:22	OBS # 48 on deck
09:22	09:49	Transit to next
09:49	10:09	Arrive on site
10:09	10:45	Anchor released
10:45	10:48	OBS # 56 hooked
10:48	10:49	OBS # 56 on deck
10:49	11:13	Transit to next
11:13	11:43	Arrive on site
11:43	12:12	Anchor released
12:12	12:17	OBS # 57 hooked
12:17	12:19	OBS # 57 on deck
12:19	12:40	Transit to next
12:40	13:06	Arrive on site
13:06	13:46	Anchor released
13:46	13:48	OBS # 58 hooked
13:48	13:51	OBS # 58 on deck
13:51	14:10	Transit to next
14:10	14:38	Arrive on site
14:38	15:38	Anchor released
15:38	15:42	OBS # 59 hooked
15:42	15:47	OBS # 59 on deck
15:47	16:10	Transit to next
16:10	16:15	Arrive on site



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

16:15	17:14	Anchor released
17:14	17:16	OBS # 60 hooked
17:16	17:20	OBS # 60 on deck
17:20	17:43	Transit to next
17:43	18:05	Arrive on site
18:05	18:40	Anchor released
18:40	18:43	OBS # 61 hooked
18:43	18:46	OBS # 61 on deck
18:46	19:04	Transit to next
19:04	19:48	Arrive on site
19:48	19:58	Anchor released
19:58	20:00	OBS # 62 hooked
20:00	20:03	OBS # 62 on deck
20:03	20:25	Transit to next
20:25	20:50	Arrive on site
20:50	21:21	Anchor released
21:21	21:23	OBS # 63 hooked
21:23	21:25	OBS # 63 on deck
21:25	21:47	Transit to next
21:47	22:20	Arrive on site
22:20	22:47	Anchor released
22:47	22:49	OBS # 64 hooked
22:49	22:50	OBS # 64 on deck
22:50	23:10	Transit to next
23:10	23:29	Arrive on site
23:29	00:00	Anchor released

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

POS                    20 06.5260 S  
                          176 08.0237 W  
HDG:                72.4 Deg  
SPEED:            1.62 Kts

**Weather:**

Winds              10-15 kts.  
Seas                3-5'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Twenty OBS instruments recovered. 20 total recovered this deployment, 39 remain.

Next 24 hours  
Recover OBS instruments.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 26 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/26/2009**

No survey

Total: 0.000

#### Time Activity Analysis

**02/26/2009**

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	24:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:14	Anchor released
00:14	00:16	OBS # 72 hooked
00:16	00:17	OBS # 72 on deck
00:17	00:34	Transit to next
00:34	00:52	Arrive on site
00:52	01:35	Anchor released
01:35	01:37	OBS # 73 hooked
01:37	01:38	OBS # 73 on deck
01:38	01:52	Transit to next
01:52	02:20	Arrive on site
02:20	02:52	Anchor released



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

02:52	02:54	OBS # 74 hooked
02:54	02:55	OBS # 74 on deck
02:55	03:17	Transit to next
03:17	03:39	Arrive on site
03:39	04:06	Anchor released
04:06	04:16	Delayed
04:16	04:18	OBS # 75 hooked
04:18	04:19	OBS # 75 on deck
04:19	04:44	Transit to next
04:44	05:06	Arrive on site
05:06	05:38	Anchor released
05:38	05:40	OBS # 77 hooked
05:40	05:40	OBS # 77 on deck
05:40	06:04	Transit to next
06:04	06:23	Arrive on site
06:23	07:02	Anchor released
07:02	07:04	OBS # 80 hooked
07:04	07:05	OBS # 80 on deck
07:05	07:31	Transit to next
07:31	07:51	Arrive on site
07:51	08:31	Anchor released
08:31	08:33	OBS # 09 hooked
08:33	08:34	OBS # 09 on deck
08:34	08:58	Transit to next
08:58	09:13	Arrive on site
09:13	09:58	Anchor released
09:58	10:01	OBS # 11 hooked
10:01	10:02	OBS # 11 on deck
10:02	10:26	Transit to next
10:26	10:47	Arrive on site
10:47	11:29	Anchor released
11:29	11:31	OBS # 13 hooked
11:31	11:36	OBS # 13 on deck
11:36	11:57	Transit to next
11:57	12:35	Arrive on site
12:35	13:02	Anchor released
13:02	13:05	OBS # 15 hooked
13:05	13:09	OBS # 15 on deck
13:09	13:28	Transit to next
13:28	13:52	Arrive on site
13:52	14:37	Anchor released
14:37	14:39	OBS # 16 hooked
14:39	14:43	OBS # 16 on deck
14:43	14:55	Transit to next





Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

14:55	15:33	Arrive on site
15:33	16:00	Anchor released
16:00	16:03	OBS # 33 hooked
16:03	16:08	OBS # 33 on deck
16:08	16:18	Transit to next
16:18	16:41	Arrive on site
16:41	17:24	Anchor released
17:24	17:28	OBS # 34 hooked
17:28	17:35	OBS # 34 on deck
17:35	17:57	Transit to next
17:57	18:08	Arrive on site
18:08	18:50	Anchor released
18:50	18:52	OBS # 47 hooked
18:52	18:56	OBS # 47 on deck
18:56	19:20	Transit to next
19:20	19:46	Arrive on site
19:46	20:14	Anchor released
20:14	20:17	OBS # 46 hooked
20:17	20:21	OBS # 46 on deck
20:21	20:44	Transit to next
20:44	21:22	Arrive on site
21:22	22:10	Anchor released
22:10	22:13	OBS # 45 hooked
22:13	22:17	OBS # 45 on deck
22:17	22:40	Transit to next
22:40	23:01	Arrive on site
23:01	23:43	Anchor released
23:43	23:46	OBS # 44 hooked
23:46	23:47	OBS # 44 on deck
23:47	00:00	Transit to next

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

POS 20 19.8556 S  
176 12.9299 W  
HDG: 348.6 Deg  
SPEED: 10.4 Kts

**Weather:**

Winds 5-10 kts.  
Seas 3-5'

**Comments**



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Twenty OBS instruments recovered. 36 total recovered this deployment, 23 remain.

Next 24 hours  
Recover OBS instruments.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 27 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/27/2009**

No survey

Total: 0.000

#### Time Activity Analysis

**02/27/2009**

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	24:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:10	OBS secured, transit to next
00:10	00:31	Arrive on site
00:31	01:05	Anchor released
01:05	01:07	OBS # 66 Hooked
01:07	01:08	OBS # 66 On Deck
01:08	01:28	OBS secured, transit to next
01:28	01:53	Arrive on site
01:53	02:36	Anchor released
02:36	02:38	OBS # 65 Hooked
02:38	02:39	OBS # 65 On Deck
02:39	02:57	OBS secured, transit to next



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

02:57	03:29	Arrive on site
03:29	04:16	Anchor released
04:16	04:18	OBS # 71 Hooked
04:18	04:19	OBS # 71 On Deck
04:19	04:40	OBS secured, transit to next
04:40	05:03	Arrive on site
05:03	05:47	Anchor released
05:47	05:47	OBS # 70 Hooked
05:47	05:50	OBS # 70 On Deck
05:50	06:22	OBS secured, transit to next
06:22	06:30	Arrive on site
06:30	06:57	Anchor released
06:57	06:59	OBS # 76 Hooked
06:59	07:00	OBS # 76 On Deck
07:00	07:22	OBS secured, transit to next
07:22	08:02	Arrive on site
08:02	08:36	Anchor released
08:36	08:38	OBS # 78 Hooked
08:38	08:39	OBS # 78 On Deck
08:39	09:02	OBS secured, transit to next
09:02	09:42	Arrive on site
09:42	10:11	Anchor released
10:11	10:13	OBS # 79 Hooked
10:13	10:14	OBS # 79 On Deck
10:14	10:37	OBS secured, transit to next
10:37	11:00	Arrive on site
11:00	11:43	Anchor released
11:43	11:46	OBS # 10 Hooked
11:46	11:52	OBS # 10 On Deck
11:52	12:12	OBS secured, transit to next
12:12	12:34	Arrive on site
12:34	13:17	Anchor released
13:17	13:23	OBS # 12 Hooked
13:23	13:38	Delayed
13:38	13:52	OBS # 12 On Deck
13:52	14:13	OBS secured, transit to next
14:13	14:32	Arrive on site
14:32	15:18	Anchor released
15:18	15:21	OBS # 14 Hooked
15:21	15:26	OBS # 14 On Deck
15:26	15:43	OBS secured, transit to next
15:43	16:03	Arrive on site
16:03	16:43	Anchor released
16:43	16:46	OBS # 35 Hooked



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

16:46	16:50	OBS # 35 On Deck
16:50	17:01	OBS secured, transit to next
17:01	17:16	Arrive on site
17:16	18:04	Anchor released
18:04	18:06	OBS # 36 Hooked
18:06	18:10	OBS # 36 On Deck
18:10	18:20	OBS secured, transit to next
18:20	18:35	Arrive on site
18:35	19:21	Anchor released
19:21	19:23	OBS # 37 Hooked
19:23	19:26	OBS # 37 On Deck
19:26	19:42	OBS secured, transit to next
19:42	20:00	Arrive on site
20:00	20:38	Anchor released
20:38	20:41	OBS # 38 Hooked
20:41	20:42	OBS # 38 On Deck
20:42	21:00	OBS secured, transit to next
21:00	21:20	Arrive on site
21:20	22:05	Anchor released
22:05	22:08	OBS # 39 Hooked
22:08	22:11	OBS # 39 On Deck
22:11	22:26	OBS secured, transit to next
22:26	22:53	Arrive on site
22:53	23:33	Anchor released
23:33	23:35	OBS # 40 Hooked
23:35	23:36	OBS # 40 On Deck
23:36	23:45	OBS secured, transit to next
23:45	00:00	Arrive on site

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

POS                    20 27.3037 S  
                             176 07.6158 W  
HDG:                349.4 Deg  
SPEED:            0.3 Kts

**Weather:**

Winds              5-10 kts.  
Seas                3-5'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

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**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

16 OBS instruments recovered. 52 total recovered this deployment, 7 remain.

Next 24 hours

Recover OBS instruments, transit to multibeam survey area, begin multibeam survey.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 28 FEB 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**02/28/2009**

No seismic survey

Total: 0.000

#### Time Activity Analysis

**02/28/2009**

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	8:09
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	3:19
Magnetometer Survey	0:00
Multibeam survey	12:32
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:02	Arrive on site
00:02	00:43	Anchor released
00:43	00:45	OBS # 41 Hooked
00:45	00:46	OBS # 41 On Deck
00:46	01:03	OBS secured, transit to next
01:03	01:21	Arrive on site
01:21	02:04	Anchor released
02:04	02:06	OBS # 42 Hooked
02:06	02:07	OBS # 42 On Deck
02:07	02:22	OBS secured, transit to next



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

02:22	02:45	Arrive on site
02:45	03:31	Anchor released
03:31	03:33	OBS # 43 Hooked
03:33	03:34	OBS # 43 On Deck
03:34	03:56	OBS secured, transit to next
03:56	04:15	Arrive on site
04:15	04:54	Anchor released
04:54	04:56	OBS # 67 Hooked
04:56	04:56	OBS # 67 On Deck
04:56	05:11	OBS secured, transit to next
05:11	05:30	Arrive on site
05:30	06:18	Anchor released
06:18	06:20	OBS # 68 Hooked
06:20	06:21	OBS # 68 On Deck
06:21	06:42	OBS secured, transit to next
06:42	06:56	Arrive on site
06:56	07:36	Anchor released
07:36	07:38	OBS # 69 Hooked
07:36	07:38	OBS # 69 On Deck
07:38	08:09	Secure for transit
08:09	11:28	Transit to multibeam survey area
07:38	18:07	MB survey line MB_01
18:07	18:15	Turn/transition
18:15	18:31	MB survey line MB_02
18:31	18:35	Turn/transition
18:35	24:00	MB survey line MB_03

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

POS                    20 08.7369 S  
                          176 44.6403 W  
HDG:                007.6 Deg  
SPEED:            9.8 Kts

**Weather:**

Winds              10-15 kts.  
Seas                3-5'

**Comments**

Local time is UTC+13.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell





**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Finished OBS recovery. Transitioned to multibeam survey area, began multibeam survey.

Next 24 hours  
Multibeam survey. Will shift clocks to UTC+12 at 2400.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 01 MAR 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**03/01/2009**

No seismic survey

Total: 0.000

#### Time Activity Analysis

**03/01/2009**

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	8:09
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	24:00
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	00:59	Start Line MB_03
00:59	01:06	End Line MB_03
01:06	01:27	Start Line MB_04
01:27	01:34	End Line MB_04
01:34	01:34	Start Line MB_05
07:59	08:00	End Line MB_05
08:04	08:04	Start Line MB_06
08:43	08:48	End Line MB_06
08:48	11:01	Start Line MB_07
11:01	11:01	End Line MB_07



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

11:01	12:55	Start Line MB_08
12:55	13:15	End Line MB_08
13:15	14:13	Start Line MB_09
14:13	14:55	End Line MB_09
14:55	15:45	Start Line MB_10A
15:45	15:46	End Line MB_10A
15:46	18:07	Start Line MB_11
18:07	18:09	End of Line MB_11
18:09	19:42	Start of Line MB_12
19:42	19:59	End of Line MB_12
19:59	00:00	Start of line MB_13

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

POS 21 03.0594 S  
177 51.7215 W  
HDG: 269.6 Deg  
SPEED: 10.0 Kts

**Weather:**

Winds 0-5 kts.  
Seas 3-5'

**Comments**

Local time is UTC+12.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Multibeam survey.

Knudsen/Em122 interference manifesting during survey upslope. We have developed a (less than ideal) workaround which involves shutting down the Knudsen at the base of the slope and turning it on again afterwards. Interference problem needs to be addressed; please see CMM-09-S010.

Shifted clocks, new time offset to UTC+12.



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Previous Langseth endurance record of 36 days, 21 hours, and 10 minutes at sea (set MGL0812 part II) broken at 16:27Z.

Next 24 hours  
Multibeam survey.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 02 MAR 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**03/02/2009**

No seismic survey

Total: 0.000

#### Time Activity Analysis

**03/02/2009**

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	8:09
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	24:00
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	02:34	Start of line MB_13
02:34	02:40	End Line MB_13
02:40	03:02	Start Line MB_14
03:02	03:12	End Line MB_14
03:12	10:31	Start Line MB_15



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

10:31	10:37	End of Line MB_15
10:37	10:59	Start of Line MB_16
10:59	11:07	End of Line MB_16
11:07	18:35	Start of Line MB_17
18:35	18:41	End Line MB_17
18:41	19:03	Start Line MB_18
19:03	19:09	End of Line MB_18
19:09	00:00	Start Line MB_19

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

POS 20 48.1781 S  
177 27.5568 W  
HDG: 089.2 Deg  
SPEED: 10.4 Kts

**Weather:**

Winds 15-20 kts.  
Seas 4-6'

**Comments**

Local time is UTC+12.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Multibeam survey.



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Next 24 hours  
Multibeam survey.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 03 MAR 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**03/03/2009**

No seismic survey

Total: 0.000

#### Time Activity Analysis

**03/03/2009**

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

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	02:43	Start Line MB_19
02:43	02:50	End of Line MB_19
02:50	03:10	Start of Line MB_20
03:10	03:18	End of Line MB_20
03:18	10:49	Start of Line MB_21





**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

To: Office of Marine Operations

Cc: Reports Group

Fm: A Johnson – Technician in Charge (LDEO)

10:49	10:56	End of MB_21
10:56	11:18	Start of MB_22
11:18	11:25	End of MB_22
11:25	19:06	Start of MB_23
19:06	19:11	End of Line MB_23
19:11	19:35	Start Line MB_24
19:35	19:41	End Line MB_24

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

POS                    20 33.0823 S  
                             177 42.4957 W

HDG:                270.8 Deg

SPEED:            10.4 Kts

**Weather:**

Winds              0-5 kts.

Seas                3-5'

**Comments**

Local time is UTC+12.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Multibeam survey.

Next 24 hours



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

Multibeam survey.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 04 MAR 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**03/04/2009**

No seismic survey

Total: 0.000

#### Time Activity Analysis

**03/04/2009**

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

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	03:26	Start of MB_25
03:26	03:32	End of MB_25
03:32	03:57	Start of MB_26
03:57	04:01	End of MB_26
04:01	11:46	Start of MB_27
11:46	11:54	End of MB_27
11:54	12:20	Start of MB_28
12:20	12:28	End of MB_28
12:28	20:17	Start of MB_29
20:17	20:25	End of MB_29



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

20:25	20:46	Start of MB_30
20:46	20:53	End of MB_30
20:53	00:00	Start of MB_31

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

POS                      20 18.0888 S  
                              177 46.0761 W  
HDG:                    085.6 Deg  
SPEED:                10.3 Kts

**Weather:**

Winds                15-20 kts.  
Seas                 4-6'

**Comments**

Local time is UTC+12.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Multibeam survey.

Next 24 hours  
Multibeam survey.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 05 MAR 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**03/05/2009**

No seismic survey

Total: 0.000

#### Time Activity Analysis

**03/05/2009**

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

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	04:49	Survey line MB_31
04:49	04:56	Turn/transition
04:56	05:17	Survey line MB_32
05:17	05:25	Turn/transition
05:25	12:24	Survey line MB_33
12:24	12:31	Turn/transition
12:31	12:52	Survey line MB_34
12:52	12:58	Turn/transition
12:58	19:58	Survey line MB_35
19:58	20:04	Turn/transition



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

20:04	20:26	Survey line MB_36
20:26	20:34	Turn/transition
20:34	00:00	Survey line MB_37

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

POS                      20 03.0668 S  
                             177 29.2720 W  
HDG:                    271.3 Deg  
SPEED:                 10.0 Kts

**Weather:**

Winds                  0-5 kts.  
Seas                    2-4'

**Comments**

Local time is UTC+12.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Multibeam survey.

Next 24 hours

Multibeam survey. We will break off from survey grid and begin heading toward port at 2000 UTC on Mar 6. Expect to arrive Suva 2000 UTC Mar 7.

Anthony Johnson



Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 06 MAR 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**03/06/2009**

No seismic survey

Total: 0.000

#### Time Activity Analysis

**03/06/2009**

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	18:45
Transit/Demob	5:15
Weather	0:00
Total:	24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	03:39	Survey line MB_37
03:39	03:47	Turn/transition
03:47	04:08	Survey line MB_38
04:08	04:13	Turn/transition
04:13	11:25	Survey line MB_39
11:25	11:31	Turn/transition



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

11:31	11:54	Survey line MB_40
11:54	12:03	Turn/transition
12:03	18:44	Survey line MB_41
18:44	18:45	Turn/transition
18:45	20:54	Survey line MB_41A
20:54	24:00	Survey line MB_42

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

POS 19 44.8116 S  
178 54.0787 W  
HDG: 271.2 Deg  
SPEED: 10.2 Kts

**Weather:**

Winds 0-5 kts.  
Seas 0-2'

**Comments**

Local time is UTC+12.

**Science technical staff currently on board:**

Johnson, Koczyński, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Multibeam survey. Survey line MB\_41 ended survey on grid, and we began transit to port. Magnetometer still deployed.

Clean up in labs, gun shop and machine shop. Stowed XBT launch flume.

Next 24 hours  
Transit to Suva, Fiji. Arrive pilot station about 2000 March 7.

Anthony Johnson





Weins/Dunn

MGL0903

Lau Basin

R/V Marcus G. Langseth

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

## Daily Report for 07 MAR 2009

### 1. PRODUCTION SUMMARY

No Production

### 2. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

Sailed Km

**03/07/2009**

No seismic survey

Total: 0.000

#### Time Activity Analysis

**03/07/2009**

Source Survey	0:00
Source Survey/Source Maint.	0:00
Source Maint	0:00
Source Recovery	0:00
Source Deploy	0:00
OBS Recovery	0:00
OBS Deploy	0:00
OBS Delay	0:00
Seismic Air Compressor	0:00
Turn/Transition	0:00
Magnetometer Survey	0:00
Multibeam survey	0:00
Transit/Demob	21:09
Port Call	2:51
Weather	0:00

Total: 24:00

### 3. TIME SUMMARY

Start	End	Description/Comments
00:00	21:09	Transit to port
21:09	24:00	Dockside Suva, Fiji

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

POS 18 08.1353 S  
178 25.3731 W  
HDG: 022.7 Deg



**Weins/Dunn**

**MGL0903**

**Lau Basin**

**R/V Marcus G. Langseth**

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

SPEED: 0.0 Kts

**Weather:**

Winds 0-5 kts.  
Seas 0'

**Comments**

Local time is UTC+12.

**Science technical staff currently on board:**

Johnson, Koczynski, McKiernan, Gutierrez, Goodick, Spoto, Ng, White, Maxwell

**Science party currently on board:**

Dunn, Conder, Martinez, Conley, Emry, Hernandez, Austin, Sleeper, Dubois, Gardner, Rapa, Hollinshead, Kane, Thai

**Mammal observers currently on board vessel:**

Nicholas, Holst, Dawe, Hurley, Fossati

**Daily Summary:**

Transit/demob to Suva, Fiji:  
1912 Arrival  
2032 Take Pilot  
2109 First line  
2210 All fast

Next 24 hours  
Port call.

Anthony Johnson