

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-04-29	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-04-29
Production	0.00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	24:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

21° 18.97' N	157° 53.17' W	
Wind: E @ 5-10 Kts	Seas: 0m	Depth: N/A
SPD: 0.00 kts	HDG: 186 Deg	

Cruise : MGL1208

To: Office of Marine Operations
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Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
00:00	0:00 Port Call U of H Marine Facility

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
WHOI Tech – Robb Hagg

Science Party on board:

None

Marine Mammal Observer Staff on board:

None

5.Daily Summary:

The vessel started the day alongside U of H Marine Facility Honolulu, Hawaii. Coring mission mobilization in progress, and will continue throughout the day. Vessel moved to fueling dock at 0800, and returned to UH facility at 0500.

Work in Progress:

Closing out projects, getting equipment secured, general cleaning.

Tomorrow:

The vessel will depart for test core site.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-04-30	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-04-30
Production	0.00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	1:20
Core Cast	0:00
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	4:40
Ship Repair	0:00
Maneuvering	0:00
Port Call	18:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

21° 12.096' N	158° 31.461' W	
Wind: E @ 15 Kts	Seas: 1m	Depth: 2965 m
SPD: 0.00 kts	HDG: N/A (on station)	

Cruise : MGL1208

To: Office of Marine Operations
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Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	18:00	Port Call U of H Marine Facility
18:00	22:40	Transit to test core site
22:40	24:00	Test core cast begins

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

The vessel started the day alongside U of H Marine Facility Honolulu, Hawaii. Vessel departed at 0800 local (1800 UTC) for test coring site. Science party safety orientation and tour was conducted. Emergency drills were conducted. Captain, PI's, OSU techs, Rob Hagg, and senior Langseth personnel had a pre-test cast meeting. First test cast began.

Work in Progress:

Finishing up plumbing in the wet lab.

Tomorrow:

The vessel will remain on station to complete the first cast, then rig for the piston core cast, and finally do a CTD cast to 500 meters.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-05-01	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-05-01
Production	0.00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	3:08
Piston Core	5:59
Multi-Core	0:00
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	5:37
Ship Repair	0:00
Maneuvering	0:00
Port Call	5:18
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

21° 12.096' N	158° 31.461' W	
Wind: E @ 15 Kts	Seas: 1m	Depth: 2965 m
SPD: 0.00 kts	HDG: N/A (on station)	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	03:08	Finish gravity core test
03:08	09:27	Piston core test
09:27	18:42	Transit to UH Marine Facility
18:47	24:00	Port call to repair reefer van

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

The vessel started the day completing the gravity core test. Piston core was rigged and piston core test was completed. Vessel then transited back to the UH facility to effect repairs on the reefer van for core storage, and to have the coring winch inspected.

Work in Progress:

Finishing up plumbing in the wet lab.

Tomorrow:

The vessel will conclude the short maintenance port call and begin transiting to the Coring cruise work site.

Regards

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

David M Martinson

Line Islands Coring Cruise

R/V Marcus G. Langseth

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-05-02	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-05-02
Production	0.00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	0:00
Piston Core	0:00
Multi-Core	0:00
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	23:02
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:58
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

17° 24.208' N	158° 27.678' W	
Wind: SE @ 16 Kts	Seas: 2m	Depth: 4996 m
SPD: 10.4 kts	HDG: 182.6	

Cruise : MGL1208

To: Office of Marine Operations
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Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	00:58	Port Call UH Marine Facility
00:58	24:00	Transit to survey area F2

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

The vessel started the day concluding the minor maintenance port call. Vessel then began transit to survey area F2, expected to take approximately 3 days.

Work in Progress:

Standard workday routine.

Tomorrow:

The vessel will continue transiting to survey area F2.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-05-03	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-05-03
Production	0.00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	0:00
Piston Core	0:00
Multi-Core	0:00
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

13° 12.871' N	159° 04.548' W	
Wind: ESE @ 16 Kts	Seas: 1m	Depth: 5514 m
SPD: 11.3 kts	HDG: 186.41	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
00:00 24:00	Transit to survey area F2

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

The vessel started the day transiting to survey area F2. ETA 1800 May 4th (local time).

Work in Progress:

Standard workday routine.

Tomorrow:

The vessel will continue transiting to survey area F2. Upon arrival may do a gravity core.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-05-03	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-05-03
Production	0.00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	0:00
Piston Core	0:00
Multi-Core	0:00
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	19:56
Ship Repair	4:04
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

9° 46.357' N	159° 33.323' W	
Wind: E @ 15 Kts	Seas: 2m	Depth: 3400 m
SPD: 10.8 kts	HDG: 189	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	19:38	Transit to survey area F
19:38	23:42	A-frame OB block repairs
23:42	24:00	Transit to survey area F

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

The vessel started the day transiting to area F for possible gravity core. At 19:38 (UTC), vessel stopped to make repairs to the core winch over-boarding block on the A-frame. Retaining nut had come off and bolt was working it's way out. At 23:42 (UTC), vessel resumed transiting to area F.

Work in Progress:

Standard workday routine.

Tomorrow:

The vessel will continue transiting to survey area F2 and hopefully do a gravity core.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-05-06	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-05-06
Production	15.52
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	2:44
Piston Core	0:00
Multi-Core	0:00
Hydraulics	0:00
Source	1.05
Streamer	2:28
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	1:51
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

5° 44.242' N	161° 14.473' W	
Wind: NE @ 29 Kts	Seas: 3m	Depth: 2217 m
SPD: 10.5 kts	HDG: 359	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	11:30	Transit to survey area F
11:30	14:04	Gravity core
14:04	24:00	Transit to survey area E

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

The vessel started the day transiting to area F for possible gravity core. At 11:30 (UTC), vessel stopped to gravity core. At 14:04 (UTC), vessel began transiting to area E.

Work in Progress:

Standard workday routine.

Tomorrow:

The vessel will continue transiting to survey area E, deploy the streamer and guns and begin MCS acquisition.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-05-06	<u>Sailed Km</u>
Prime	160.600
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-05-06
Production	15.52
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	2:44
Piston Core	0:00
Multi-Core	0:00
Hydraulics	0:00
Source	1.05
Streamer	2:28
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	1:51
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

5° 44.242' N	161° 14.473' W	
Wind: NE @ 29 Kts	Seas: 3m	Depth: 2217 m
SPD: 10.5 kts	HDG: 359	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	00:31	Transit to survey area E
00:31	01:57	Streamer deployment
01:57	02:45	Gun deployment and ramp up
02:45	04:09	Test line
04:09	14:48	Acquire MGL120801E01
14:48	18:42	Acquire MGL120802E02
18:42	19:04	Retrieve guns
19:04	19:50	Retrieve streamer
19:50	21:05	Transit to core site 3
21:05	23:49	Gravity core 3
23:49	24:00	Transit to core site 4

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

The vessel started the day transiting to area E for MCS survey. MCS survey was conducted. Site for gravity core was chosen. Gravity core was taken (no joy). Vessel in transit to core site 4.

Work in Progress:

Standard workday routine.

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Tomorrow:

The vessel will hopefully obtain a gravity core and then begin transiting to area A.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. PRODUCTION SUMMARY

2012-05-07	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Time Activity Analysis</u>	2012-05-07
Production	0.00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	12:50
Piston Core	3:14
Multi-Core	0:00
Multibeam Survey	7:05
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:51
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

6° 23.90' N	160° 46.11' W	
Wind: NE @ 16 Kts	Seas: 2m	Depth: 3154 m
SPD: 0.0 kts	HDG: N/A (on station)	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	04:33	Multibeam survey
04:33	11:03	Gravity core
11:03	11:54	Transit
11:54	15:28	Gravity core
15:28	18:00	Multibeam survey
18:00	20:46	Gravity core
20:46	24:00	Piston core

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

The vessel started the day with a multibeam and chirp survey over potential coring sites. Site for gravity core was chosen. The remainder of the day was spent getting gravity cores and rigging for a piston core.

Work in Progress:

Standard workday routine.

Tomorrow:

The vessel will retrieve the piston core and hopefully get a multi-core after which the transit to area A will begin.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-08	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-08
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	3:02
Gravity Core	0:00
Piston Core	4:02
Multi-Core	5:28
Sonar Survey	11:28
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:51
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

5° 17.306' N	160° 30.805' W	
Wind: E @ 27 Kts	Seas: 2m	Depth: 3227 m
SPD: 10.1 kts	HDG: 128.6	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	04:02	Piston core (core #8)
04:02	09:30	Multi-core (core #9)
09:30	13:02	CTD cast #1 & #2
13:02	24:00	Sonar survey

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Completed piston core recovery (core #8). Rigged for multi-core and completed deployment and retrieval (core #9). Rigged for CTD cast and did two CTD casts, cast #1 acquired samples at 105m-107m, and cast #2 acquired samples at 500m. Vessel then resumed sonar survey (multibeam and Knudsen) transiting towards area A.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue the sonar survey enroute to area A.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-09	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-09
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	2:56
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	21:04
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

02° 32.001' N	158° 43.889' W	
Wind: E @ 17 Kts	Seas: 1m	Depth: 3057 m
SPD: 11.1 kts	HDG: 138.3	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	01:59	Sonar survey
01:59	04:55	Gravity core (core #10)
04:55	24:00	Sonar survey

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Acquired gravity core (core #10). Vessel then resumed sonar survey (multibeam and Knudsen) transiting towards area A.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue the sonar survey enroute to area A, acquire another gravity core, deploy seismic gear and begin seismic acquisition in area A.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-10	<u>Sailed Km</u>
Prime	161.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-10
MCS Production	7.16
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	4:08
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	10:56
Hydraulics	0:00
Source	0.47
Streamer	0:53
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

00° 44.862' N	156° 45.096' W	
Wind: E @ 16 Kts	Seas: 1m	Depth: 2887.1 m
SPD: 5.6 kts	HDG: 120.7	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	09:30	Sonar survey
09:30	13:38	Gravity core (core #11)
13:38	15:04	Sonar survey
15:04	15:57	Deploy Streamer
15:57	16:44	Deploy guns and ramp up
16:44	24:00	Acquisition of MGL120801A

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Acquired gravity core (core #11). Vessel then resumed sonar survey (multibeam and Knudsen) transiting towards seismic gear deployment area. Deployed streamer and guns, began acquisition of MGL12080A1.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will complete the seismic survey and then begin coring operations and more sonar surveys.

Regards

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

David M Martinson

Line Islands Coring Cruise

R/V Marcus G. Langseth

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-11	<u>Sailed Km</u>
Prime	472.150
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-11
MCS Production	22.06
MCS Line Change	0:11
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	0:00
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	0:00
Hydraulics	0:00
Source	0.25
Streamer	0:47
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:31
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

00° 13.559' N	156° 24.990' W	
Wind: E @ 11 Kts	Seas: 1m	Depth: 2838.2 m
SPD: 10.6 kts	HDG: 334	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	03:03	Acquire MGL120801A
03:03	12:25	Acquire MGL120801A1
12:25	12:33	Line change
12:33	15:52	Acquire MGL120802A
15:52	15:55	Line change
15:55	22:17	Acquire MGL120803A
22:17	22:39	Recover guns
22:39	23:29	Recover streamer
23:29	24:00	Transit

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Vessel completed seismic acquisition, retrieved guns and streamer and began transit to GC12 coring site.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will begin coring operations and more sonar surveys.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-12	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-12
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	7:25
Gravity Core	7:17
Piston Core	0:00
Multi-Core	4:56
Sonar Survey	4:22
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

00° 08.984' N	155° 59.310' W	
Wind: E @ 11 Kts	Seas: 1m	Depth: 3033.5 m
SPD: 10.3 kts	HDG: 338	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	03:52	Sonar survey
03:52	07:01	Gravity core (#12)
07:01	11:09	Gravity core BB (#13)
11:09	16:05	Multi-core (#14)
16:05	20:05	CTD cast #3
20:05	22:15	CTD cast #4
22:15	23:30	CTD cast #5
23:30	24:00	Sonar survey

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Vessel completed a gravity core (#12), a gravity (big berth) core (#13), a multi-core (#14), a bottom CTD cast (#3), a 200 meter mixed layer CTD cast (#4), and a 500 meter mixed layer CTD cast (#5).

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-13	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-13
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	6:10
Piston Core	8:12
Multi-Core	0:00
Sonar Survey	9:17
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:21
Total:	24:00

UTC Midnight (24:00) Position / Heading:

00° 32.999' N	156° 35.194' W	
Wind: E @ 8 Kts	Seas: 1m	Depth: 3381.9 m
SPD: 10.3 kts	HDG: 329.6	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	02:36	Sonar survey
02:36	02:57	Winch test (low gear/parallel)
02:27	06:26	Gravity core (#15)
06:26	10:05	Sonar survey
10:05	12:46	Gravity core (#16)
12:46	18:56	Rig for piston core
18:56	20:58	Piston core (#17)
20:58	24:00	Sonar survey

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Vessel completed a gravity core (#15), gravity core (#16), and piston core (#17).

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-14	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-14
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	1:37
Gravity Core	10:59
Piston Core	0:00
Multi-Core	4:00
Sonar Survey	7:24
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

01° 16.431' N	157° 15.733' W	
Wind: ENE @ 16 Kts	Seas: 1m	Depth: 3225.4m
SPD: 00.0 kts	HDG: N/A (on station)	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	00:43	Sonar survey to site B1
00:43	04:23	Gravity core (#18)
04:23	06:36	Sonar survey to site B2
06:36	09:15	Gravity core (#19)
09:15	13:43	Sonar survey to site B3
13:43	16:15	Rig for BB core
16:15	18:23	Gravity core BB (#20)
18:23	19:29	Rig for multi-core
19:29	22:23	Multi-core (#21)
22:23	23:03	CTD cast (#6)
23:03	24:00	CTD cast (#7)

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Vessel started the day completing a sonar survey to site B1. Vessel then completed a gravity core (#18) at site B1, a gravity core (#19) at site B2, a BB gravity core (#20) at site B3, a multi-core (#21) at site B3, and two CTD casts (#6 & #7) at site B3.

Work in Progress:

Offshore work routine.

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-15	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-15
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:30
Gravity Core	3:08
Piston Core	7:00
Multi-Core	0:00
Sonar Survey	13:22
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

02° 30.037' N	158° 44.490' W	
Wind: ENE @ 38 Kts	Seas: 3m	Depth: 3729.2m
SPD: 11.0 kts	HDG: 79.9	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	00:30	CTD cast (#7)
00:30	02:42	Rig for piston core
02:42	07:30	Piston core (#22)
07:30	08:43	Sonar survey to site B4
08:43	11:51	Gravity core (#23)
11:51	24:00	Sonar survey

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

Vessel started the day completing a CTD cast (#7) at site B3. A piston core (#22) was then taken at site B3. Vessel then began a sonar survey enroute to site B4. A gravity core (#23) was taken at site B4, then another sonar survey was begun.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-16	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-16
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	2:13
Gravity Core	8:52
Piston Core	0:00
Multi-Core	2:00
Sonar Survey	10:55
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

02° 27.764' N	159° 23.687' W	
Wind: NE @ 14 Kts	Seas: 2m	Depth: 3545.1m
SPD: 0.0 kts	HDG: N/A (on station)	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	06:15	Sonar survey to site C2
06:15	11:20	Gravity core BB (#24)
11:20	16:00	Sonar survey to site C3
16:00	19:47	Gravity core BB (#25)
19:47	21:00	CTD cast bottom (#8)
21:00	22:00	CTD cast 500m (#9)
22:00	24:00	Multi-core (#26)

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

Vessel started the day on a sonar survey to site C2. A gravity core BB (#24) was then taken at site C2. Vessel then began a sonar survey enroute to site C3. A gravity core BB (#25) was taken at site C3, then a full ocean depth CTD cast (#8) was done followed by a mixed layer CTD cast (#9) at 500m, followed by a multi-core.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-17	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-17
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	8:03
Piston Core	0:00
Multi-Core	5:26
Sonar Survey	10:31
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

03° 59.941' N	159° 38.910' W	
Wind: NNE @ 20 Kts	Seas: 2m	Depth: 2034m
SPD: 10.6 kts	HDG: 349	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	01:34	Multi-core (#26)
01:34	04:25	Rig for gravity core BB
04:25	07:01	Gravity core BB (#27)
07:01	10:42	Sonar survey to site C1
10:42	13:18	Gravity core BB (#28)
13:18	17:10	Multi-core (#29)
17:10	24:00	Sonar survey to area D

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

Vessel started the day completing recovery of multi-core (#26) at site C3. A gravity core BB (#27) was then taken at site C3. Vessel then began a sonar survey enroute to site C1. A gravity core BB (#28) was taken at site C1, followed by a multi-core (#29). Vessel then began a sonar survey enroute to area D.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-18	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-18
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	7:26
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	16:34
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

05° 11.828' N	160° 26.058' W	
Wind: ESE @ 13.7 Kts	Seas: 1m	Depth: 2927.5m
SPD: 0.0 kts	HDG: N/A (on station)	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	02:07	Sonar survey to area D
02:07	04:30	Gravity core BB (#30)
04:30	13:47	Sonar survey
13:47	16:12	Gravity core BB (#31)
16:12	21:14	Sonar survey
21:14	24:00	Gravity core BB (#32)

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Vessel started the day completing a sonar survey to area D. A gravity core BB (#30) was then taken. Vessel then resumed sonar surveying in area D. Another gravity core BB (#31) was taken in area D, followed by more sonar surveying, and another gravity core BB (#32).

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-19	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-19
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	1:56
Gravity Core	3:03
Piston Core	0:00
Multi-Core	3:00
Sonar Survey	16:01
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

06° 26.998' N	160° 33.677' W	
Wind: ENE @ 28.6 Kts	Seas: 1m	Depth: 3367.5m
SPD: 0.0 kts	HDG: 90.0	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	00:15	Gravity core BB (#32)
00:15	01:22	CTD cast bottom (#10)
01:22	02:11	CTD cast 500 m ML (#11)
02:11	05:11	Multi-core (#33)
05:11	11:13	Sonar survey
11:13	14:01	Gravity core BB (#34)
14:01	24:00	Sonar survey

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

Vessel started the day completing gravity core BB (#32). A bottom CTD cast (#10) was taken followed by a mixed layer 500 meter CTD cast (#11). Vessel then resumed sonar surveying in area D. Another gravity core BB (#33) was taken in area D, followed by more sonar surveying, and another gravity core BB (#34). Sonar survey currently in progress.

Work in Progress:

Offshore work routine.

Tomorrow:

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

The vessel will continue coring operations, CTD casts, and sonar surveys.

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-20	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-20
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	7:08
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	16:52
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

07° 02.017' N	161° 32.567' W	
Wind: NE @ 16.0 Kts	Seas: 1m	Depth: 3075.4m
SPD: 11.3 kts	HDG: 276.0	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	09:51	Sonar survey
09:51	13:18	Gravity core BB (#35)
13:18	15:57	Sonar survey
15:57	19:38	Gravity core BB (#36)
19:38	24:00	Sonar survey

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Vessel started the day on a sonar survey in area E. A gravity core BB (#35). Vessel then resumed sonar surveying in area E. Another gravity core BB (#36) was then taken. Sonar survey currently in progress.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Regards

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-21	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-21
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	2:23
Piston Core	0:00
Multi-Core	5:18
Sonar Survey	16:19
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

08° 01.339' N	160° 19.330' W	
Wind: NNE @ 26.0 Kts	Seas: 3m	Depth: 3422.6m
SPD: 11.3 kts	HDG: 9.3	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	01:27	Sonar survey
01:27	03:50	Gravity core BB (#37)
03:50	09:12	Sonar survey
09:12	11:40	Multi-core (#38)
11:40	14:30	Multi-core (#39)
14:30	24:00	Sonar survey

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

Vessel started the day on a sonar survey in area E. A gravity core BB (#37). Vessel then resumed sonar surveying in area E. A multi-core (#38) was then taken, a short sonar survey, and then another multi-core (#39). Sonar survey currently in progress.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-22	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-22
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	7:32
Gravity Core	2:24
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	14:04
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

08° 19.661' N	159° 16.661' W	
Wind: ENE @ 28.0 Kts	Seas: 3m	Depth: 4621m
SPD: 9.2 kts	HDG: 103	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	08:15	Sonar survey
08:15	10:39	Gravity core BB (#40)
10:39	15:19	Sonar survey
15:19	21:10	CTD bottom cast (#12)
21:10	21:56	CTD 500 meter cast (#13)
21:56	22:51	CTD 500 meter cast (#14)
22:51	24:00	Sonar survey

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Vessel started the day on a sonar survey in area E. A gravity core BB (#40) was taken. Vessel then resumed sonar surveying in area E. A bottom CTD cast, and two 500 meter CTD casts were taken (#'s 12,13,14). Sonar survey currently in progress.

Work in Progress:

Offshore work routine.

Tomorrow:

The vessel will continue coring operations, CTD casts, and sonar surveys.

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise : MGL1208

To: Office of Marine Operations

Cc: Reports Group

Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

Regards

David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-23	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-23
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	5:10
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	3:41
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	15:09
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

10° 49.717' N	158° 45.405' W	
Wind: NE @ 23.0 Kts	Seas: 2m	Depth: 5298m
SPD: 10.4 kts	HDG: 6.0	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Event
00:00	03:41	Sonar survey
03:41	08:51	Gravity core BB (#41)
08:51	24:00	Transit to Hawaii

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5. Daily Summary:

Vessel started the day on a sonar survey in area E. A gravity core BB (#41) was taken. Vessel then began the transit to Hawaii.

Work in Progress:

Data closeout in progress. Packing, clearing, and cleaning of starboard labs in progress. Transferring streamer from spares reel to streamer 3 in progress.

Tomorrow:

Transit to Hawaii will continue along with preparations for data, water samples, and core samples collected.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-24	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-24
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	0:00
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	0:00
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	24:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

14° 59.237' N	158° 23.614' W	
Wind: NE @ 18.0 Kts	Seas: 2-3m	Depth: 5645m
SPD: 8.4 kts	HDG: 4.0	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
00:00 24:00	Transit to Hawaii

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
WHOI Tech – Robb Hagg
Source Mechanic – Chris Francis (Geomotive)
Source Mechanic – Mike Tatro (Geomotive)
Source Mechanic – West Groves (Geomotive)

Science Party on board:

Jean Lynch-Stieglitz (PI), Pratigya Pollisar (PI), Samantha Bova, Victor Castro, Ann Dunlea, Heather Ford, Jennifer Hertzberg, Steve Hovan, Allison Jacobel, Christina King, Mitch Lyle, Ashley Maloney, Rick Murray, Robert Pockalny, Julia Shackford, Katherine Wejnert, Rui-Fang Xie, Chris Moser (OSU), Paul Walczak (OSU), Eric Arneson (OSU), Mazie Cheseby (OSU).

Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

Vessel in transit to Hawaii. ETA Saturday morning, May 26th.

Work in Progress:

Data closeout in progress. Packing, clearing, and cleaning of starboard labs in progress. Transferring streamer 4 to spares reel.

Tomorrow:

Transit to Hawaii will continue along with preparations for data, water samples, and core samples collected.

Regards
David M Martinson

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-05-25	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-05-25
MCS Production	0.00
MCS Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	0:00
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	0:00
Hydraulics	0:00
Source	0.00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	24:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

18° 09.434' N	159° 07.555' W	
Wind: NE @ 19.0 Kts	Seas: 2-3m	Depth: 4330m
SPD: 10.1 kts	HDG: 6.0	

Cruise : MGL1208

To: Office of Marine Operations
Cc: Reports Group
Fm: David M Martinson (Science Officer)

Line Islands Coring Cruise

R/V Marcus G. Langseth

3. TIME SUMMARY

Time	Event
00:00 24:00	Transit to Hawaii

4. Comments

Science Technical staff on board:

Science Officer – David M Martinson
Science Officer – Thomas Spoto
Marine Tech – Lisa Hawkins
UNOLS Tech – Tina Thomas
Navigator – Mike Martello (Geomotive)
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Marine Mammal Observer Staff on board:

Heidi Ingram, Emily Ellis, Tatiana Moreno

5.Daily Summary:

Vessel in transit to Hawaii. ETA Saturday morning, May 26th.

Work in Progress:

Data closeout in progress. Packing, clearing, and cleaning of starboard labs in progress.

Tomorrow:

Transit to Hawaii will continue along with preparations for data, water samples, and core samples collected.

Regards
David M Martinson