Seq# 001

Line Name: MGL120801E01 **NAVIGATION**

Line Brg : 217.0 ° **LINE LOGS**

DATE: 2012-05-06 Lamont-Doherty Earth Observatory COLUMBIA UNIVERSITY | EARTH INSTITUTE

JULIAN DAY: 127

CLIENT: Jean Lynch-Stiegliztz - PI **SURVEY: Line Islands Coring/Seismic Mission** **AREA: Line Islands**

DC SOL : 495.3m	DEPTH SOL : 2818.3m	NAVIGATION SYSTEM USED:	C-Nav3050 - Primary
DC EOL : 1722.0m	DEPTH EOL : 2295.2m	NAVIGATION SYSTEM USED:	SeaPath 200
SMG SOL: 5.4 knots	FEATHER SOL: 29.2 °	NAVIGATION SYSTEM USED:	C-Nav2000
SMG EOL: 5.4 knots	FEATHER EOL: 58.8 °	GRAVITY METER:	BMG-II: used, SN210
WEATHER	MAX FEATHER: 10.8 °	MAGNETOMETER:	GeoMetrics: used
WIND SOL: 16.7 knots		MAG DEC USED :	8.81°
WIND EOL: 23 knots			
SEAS SOL: 2.0m			
SEAS EOL: 2.0m			

shift hours	shift leaders
10:00 – 22:00 utc =>	david martinson
22:00 –10:00 utc =>	mike martello

shift hours	watch personnel
14:00 – 18:00 utc =>	Ashley, Rob, Julia
18:00 – 22:00 utc =>	Kate, Rui-Feng
22:00 – 02:00 utc =>	Sam, Victor
02:00 – 06:00 utc =>	Ann, Heather
06:00 – 10:00 utc =>	Jen, Christina
10:00 – 14:00 utc =>	Steven, Allison

SP	TIME(UTC)	EVENT	COMMENTS
846	04:09	SOL	
5295	14:48	EOL	

VESSEL POSITION

	Shotpoints	Latitude (N / +)	Longitude (W / -)
FSP	846	06° 29' 24.985"	-160° 55' 17.832"
LSP	5295	05° 40' 29.628"	-161° 30' 39.623"

NAVIGATION OFFSET APPLIED

NRP - Stern	29.5m
NRP - COS	78.0m
NRP – CNG	155.0m
COS – CNG	77.00m
NRP – CMP	116.50m

Note: LMN line parameter set to great circle line

Configuration: 1 x 900m streamer, 1 x 2 gun array, tailbuoy

P1	P2
MGL120801E01.p190	MGL120801E01.p294

Posnet locations & remarks: good - none - intermittent

Tailbuoy #1	good	Gun string #1	stopped

Acoustic remarks: stopped

MGL1206_V1.LMN 1208_HR_1x1.SCN(001) mgl2010.RTCN

SP spacing: 25.0m

line status: Line complete

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Seq# 002

Line Name: MGL120801E02
Line Brg : 217.0 °

NAVIGATION LINE LOGS

DATE: 2012-05-06
JULIAN DAY: 127

CLIENT: Jean Lynch-Stiegliztz - PI
SURVEY: Line Islands Coring/Seismic Mission
AREA: Line Islands

DC SOL : 2246.0m	DEPTH SOL : 2298.5m	NAVIGATION SYSTEM USED:	C-Nav3050 - Primary
DC EOL : 2.5m	DEPTH EOL : 2357.1m	NAVIGATION SYSTEM USED:	SeaPath 200
SMG SOL: 5.6 knots	FEATHER SOL: -77.4 °	NAVIGATION SYSTEM USED:	C-Nav2000
SMG EOL: 5.3 knots	FEATHER EOL: -2.3 °	GRAVITY METER:	BMG-II: used, SN210
WEATHER	MAX FEATHER: -3.6 °	MAGNETOMETER:	GeoMetrics: used
WIND SOL: 23 knots		MAG DEC USED :	8.81°
WIND EOL: 29 knots			
SEAS SOL: 2.0m			
SEAS EOL: 2.5m			

shift hours	shift leaders
10:00 – 22:00 utc =>	david martinson
22:00 –10:00 utc =>	mike martello

shift hours	watch personnel
14:00 – 18:00 utc =>	Ashley, Rob, Julia
18:00 – 22:00 utc =>	Kate, Rui-Feng
22:00 – 02:00 utc =>	Sam, Victor
02:00 – 06:00 utc =>	Ann, Heather
06:00 – 10:00 utc =>	Jen, Christinsa
10:00 – 14:00 utc =>	Steven, Allison

SP	TIME(UTC)	EVENT	COMMENTS
1209	1449	SOL	
2654	18:35	EOL	Early EOL to do gravity core

VESSEL POSITION

	Shotpoints	Latitude (N / +)	Longitude (W / -)
FSP	1209	05° 40' 22.323"	-161° 30' 33.170"
LSP	2654	05° 43' 58.609"	-161° 11' 18.875"

NAVIGATION OFFSET APPLIED

NRP - Stern	29.5m
NRP - COS	78.0m
NRP – CNG	155.0m
COS – CNG	77.00m
NRP – CMP	116.50m

Note: LMN line parameter set to great circle line
Configuration: 1 x 900m streamer, 1 x 2 gun array, tailbuoy

P1	P2
MGL120801E02.p190	MGL120801E02.p294

Posnet locations & remarks: good - none - intermittent

Tailbuoy #1	good	Gun string #1	none

Acoustic remarks: none

MGL1206_V1.LMN 1208_HR_1x1.SCN(001) mgl2010.RTCN

SP spacing: 25.0m

line status: stop for core

Lamont-Doherty Earth Observatory
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Seq# 003

Line Name: MGL120801A
Line Brg : 134.8 °

NAVIGATION LINE LOGS

DATE: 2012-05-10
JULIAN DAY: 131

CLIENT: Jean Lynch-Stiegliztz - PI
SURVEY: Line Islands Coring/Seismic Mission
AREA: Line Islands

DC SOL : 6.0m	DEPTH SOL : 2819.0m	NAVIGATION SYSTEM USED:	C-Nav3050 - Primary
DC EOL : -120.7m	DEPTH EOL : 2887.1m	NAVIGATION SYSTEM USED:	SeaPath 200
SMG SOL: 5.9 knots	FEATHER SOL: 12 °	NAVIGATION SYSTEM USED:	C-Nav2000
SMG EOL: 5.6 knots	FEATHER EOL: 2.9 °	GRAVITY METER:	BMG-II: used, SN210
WEATHER	MAX FEATHER: 12 °	MAGNETOMETER:	GeoMetrics: used
WIND SOL: 10 knots		MAG DEC USED :	8.81°
WIND EOL: 17 knots			
SEAS SOL: 1.0m			
SEAS EOL: 10.0m			

shift hours	shift leaders
10:00 – 22:00 utc =>	david martinson
22:00 –10:00 utc =>	mike martello

shift hours	watch personnel
14:00 – 18:00 utc =>	Ashley, Rob, Julia
18:00 – 22:00 utc =>	Kate, Rui-Feng
22:00 – 02:00 utc =>	Sam, Victor
02:00 – 06:00 utc =>	Ann, Heather
06:00 – 10:00 utc =>	Jen, Christinsa
10:00 – 14:00 utc =>	Steven, Allison

SP	TIME(UTC)	EVENT	COMMENTS
655	16:44	SOL	start of line
	23:59	Midnight	mid night shot point
5065	03:03	EOL	End line early d/t file size control.

VESSEL POSITION

	Shotpoints	Latitude (N / +)	Longitude (W / -)
FSP	655	01° 14' 18.835"	-157° 15' 28.360"
LSP	5065	00° 30' 04.443"	-156° 35' 59.619"

NAVIGATION OFFSET APPLIED

NRP - Stern	29.5m
NRP - COS	78.0m
NRP – CNG	155.0m
COS – CNG	77.00m
NRP – CMP	116.50m

Note: LMN line parameter set to great circle line
Configuration: 1 x 900m streamer, 1 x 2 gun array, tailbuoy

P1	P2
MGL120801A.p190	MGL120801A.p294

Posnet locations & remarks: good - none - intermittent				Acoustic remarks:
Tailbuoy #1	none	Gun string #1	none	none

MGL1206_V1.LMN 1208_HR_1x1.SCN(002) mgl2010.RTCN

SP spacing: 25.0m

line status: Stop for file management

Lamont-Doherty Earth Observatory
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NAVIGATION LINE LOGS

Seq# 004

Line Name: MGL120801A1
Line Brg : 134.8 °
DATE: 2012-05-11
JULIAN DAY: 132

CLIENT: Jean Lynch-Stiegliztz - PI
SURVEY: Line Islands Coring/Seismic Mission
AREA: Line Islands

DC SOL : -20.7m	DEPTH SOL : 2934.2m	NAVIGATION SYSTEM USED:	C-Nav3050 - Primary
DC EOL : 372.0m	DEPTH EOL : 4126.2m	NAVIGATION SYSTEM USED:	SeaPath 200
SMG SOL: 5.6 knots	FEATHER SOL: -32.3 °	NAVIGATION SYSTEM USED:	C-Nav2000
SMG EOL: 5.7 knots	FEATHER EOL: -10.9 °	GRAVITY METER:	BMG-II: used, SN210
WEATHER	MAX FEATHER: 34.5 °	MAGNETOMETER:	GeoMetrics: used
WIND SOL: 16.0 knots		MAG DEC USED :	8.81°
WIND EOL: 16:.0 knots			
SEAS SOL: 1.0m			
SEAS EOL: 10.0m			

shift hours	shift leaders
10:00 – 22:00 utc =>	david martinson
22:00 –10:00 utc =>	mike martello

shift hours	watch personnel
14:00 – 18:00 utc =>	Ashley, Rob, Julia
18:00 – 22:00 utc =>	Kate, Rui-Feng
22:00 – 02:00 utc =>	Sam, Victor
02:00 – 06:00 utc =>	Ann, Heather
06:00 – 10:00 utc =>	Jen, Christinsa
10:00 – 14:00 utc =>	Steven, Allison

SP	TIME(UTC)	EVENT	COMMENTS
5082	03:05	SOL	start of line
9102	12:25	EOL	End of line

VESSEL POSITION

	Shotpoints	Latitude (N / +)	Longitude (W / -)
FSP	5082	00° 29' 57.663"	-156° 35' 50.111"
LSP	9102	-00° 04' 02.872"	-155° 56' 11.133"

NAVIGATION OFFSET APPLIED

NRP - Stern	29.5m
NRP - COS	78.0m
NRP – CNG	155.0m
COS – CNG	77.00m
NRP – CMP	116.50m

Note: LMN line parameter set to great circle line
Configuration: 1 x 900m streamer, 1 x 2 gun array, tailbuoy

P1	P2
MGL120801A1.p190	MGL120801A1.p294

Posnet locations & remarks: good - none - intermittent

Tailbuoy #1	none	Gun string #1	none

Acoustic remarks: none

MGL1206_V1.LMN 1208_HR_1x1.SCN(002) mgl2010.RTCN

SP spacing: 25.0m

line status: Line complete

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NAVIGATION LINE LOGS

Seq# 005

Line Name: MGL1208012A
Line Brg : 201.9 °

DATE: 2012-05-11
JULIAN DAY: 132

CLIENT: Jean Lynch-Stiegliztz - PI
SURVEY: Line Islands Coring/Seismic Mission
AREA: Line Islands

DC SOL : -53.6m	DEPTH SOL : 4052.5m	NAVIGATION SYSTEM USED:	C-Nav3050 - Primary
DC EOL : 1425.7m	DEPTH EOL : 2942.2m	NAVIGATION SYSTEM USED:	SeaPath 200
SMG SOL: 5.7 knots	FEATHER SOL: 10.4 °	NAVIGATION SYSTEM USED:	C-Nav2000
SMG EOL: 5.7 knots	FEATHER EOL: -27.5 °	GRAVITY METER:	BMG-II: used, SN210
WEATHER	MAX FEATHER: -8.5 °	MAGNETOMETER:	GeoMetrics: used
WIND SOL: 16.0 knots		MAG DEC USED :	8.81°
WIND EOL: 10.0 knots			
SEAS SOL: 1.0m			
SEAS EOL: 1.0m			

shift hours	shift leaders
10:00 – 22:00 utc =>	david martinson
22:00 –10:00 utc =>	mike martello

shift hours	watch personnel
14:00 – 18:00 utc =>	Ashley, Rob, Julia
18:00 – 22:00 utc =>	Kate, Rui-Feng
22:00 – 02:00 utc =>	Sam, Victor
02:00 – 06:00 utc =>	Ann, Heather
06:00 – 10:00 utc =>	Jen, Christinsa
10:00 – 14:00 utc =>	Steven, Allison

SP	TIME(UTC)	EVENT	COMMENTS
1023	12:33	SOL	start of line LMN has seq number 006, should be 005
2425	15:52	EOL	End of line

VESSEL POSITION

	Shotpoints	Latitude (N / +)	Longitude (W / -)
FSP	1023	-00° 04' 47.413"	-155° 56' 16.644"
LSP	2425	-00° 22' 10.100"	-156° 04' 03.190"

NAVIGATION OFFSET APPLIED

NRP - Stern	29.5m
NRP - COS	78.0m
NRP – CNG	155.0m
COS – CNG	77.00m
NRP – CMP	116.50m

Note: LMN line parameter set to great circle line
Configuration: 1 x 900m streamer, 1 x 2 gun array, tailbuoy

P1	P2
MGL120802A.p190	MGL120802A.p294

Posnet locations & remarks: good - none - intermittent

Tailbuoy #1	none	Gun string #1	none

Acoustic remarks: none

MGL1206_V1.LMN 1208_HR_1x1.SCN(002) mgl2010.RTCN

SP spacing: 25.0m

line status: Line complete

Lamont-Doherty Earth Observatory
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Seq# 006

Line Name: MGL120803A
Line Brg : 331.9 °

NAVIGATION LINE LOGS

DATE: 2012-05-11
JULIAN DAY: 132

CLIENT: Jean Lynch-Stiegliztz - PI
SURVEY: Line Islands Coring/Seismic Mission
AREA: Line Islands

DC SOL : 1046.6m	DEPTH SOL : 2952.0m	NAVIGATION SYSTEM USED:	C-Nav3050 - Primary
DC EOL : -0.8m	DEPTH EOL : 3515.1m	NAVIGATION SYSTEM USED:	SeaPath 200
SMG SOL: 5.9 knots	FEATHER SOL: 99.2 °	NAVIGATION SYSTEM USED:	C-Nav2000
SMG EOL: knots	FEATHER EOL: 2.3 °	GRAVITY METER:	BMG-II: used, SN210
WEATHER	MAX FEATHER: °	MAGNETOMETER:	GeoMetrics: used
WIND SOL: 10.0 knots		MAG DEC USED :	8.81°
WIND EOL: 11.6 knots knots			
SEAS SOL: 1.0m			
SEAS EOL: 1.0m			

shift hours	shift leaders
10:00 – 22:00 utc =>	david martinson
22:00 –10:00 utc =>	mike martello

shift hours	watch personnel
14:00 – 18:00 utc =>	Ashley, Rob, Julia
18:00 – 22:00 utc =>	Kate, Rui-Feng
22:00 – 02:00 utc =>	Sam, Victor
02:00 – 06:00 utc =>	Ann, Heather
06:00 – 10:00 utc =>	Jen, Christinsa
10:00 – 14:00 utc =>	Steven, Allison

SP	TIME(UTC)	EVENT	COMMENTS
1089	15:55	SOL	start of line
3798	22:17	EOL	End of line

VESSEL POSITION

	Shotpoints	Latitude (N / +)	Longitude (W / -)
FSP	1089	-00° 22' 10.115"	-156° 04' 17.334"
LSP	3798	00 9' 57.527"	-156 21' 58.820"

NAVIGATION OFFSET APPLIED

NRP - Stern	29.5m
NRP - COS	78.0m
NRP – CNG	155.0m
COS – CNG	77.00m
NRP – CMP	116.50m

Note: LMN line parameter set to great circle line
Configuration: 1 x 900m streamer, 1 x 2 gun array, tailbuoy

P1	P2
MGL120803A.p190	MGL120803A.p294

Posnet locations & remarks: good - none - intermittent				Acoustic remarks:
Tailbuoy #1	none	Gun string #1	none	none

MGL1206_V1.LMN 1208_HR_1x1.SCN(002) mgl2010.RTCN

SP spacing: 25.0m

line status: Line complete