Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

29 May 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	5500 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Fri 29 May

The vessel continued alongside SUNY Maritime's facility, The Focus for the day was on the installation of P-Cable Equipment and its associated systems.Gravity Tie was completed. Training on P-Cable system operation and final connections between P-Cable Signal Cable and Cross Cable. Completed integration test between P-Cable and Syntrak Recording system and Spectra and SeisPOS Navigation system. Host visitors from LDEO and Ms. Langseth for tours of the vessel.

Daily Comment Summaries - Plan for Tomorrow

Fri 29 May

The vessel will continue alongside the SUNY Maritime's facility. The Focus for today will be on continuing with preparation for the cruise. Securing Equipment and spaces for getting underway. Continuing P-Cable system training for Observers. Science Party and PSO are expected to start arriving onboard the vessel later in the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Fri 29. May 00:00	Fri 29. May 24:00	24.000
Mobilising Ashore. Vessel at SUNY working on installation and rigging of Equipment associated with the upcoming P-Cable Survey.				

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
Total						**0.00**			

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Infill	0.00	0.00	0.00	0.00
Combined	**0.00**	**0.00**	**0.00**	**0.00**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Mobilisation	**24.000**	**100.000**
Mob Ashore	24.000	100.000
Total	24.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 29 May

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Fri 29 May

Technical Staff
Steinhaus Robert Chief Science Officer
Martinson David Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Castro Brian Geometric's FS Engineer
Shehan Daniel Geometric's FS Engineer
Majzlik Edward James NCS FS Engineer
Hudson James Patrick NCS HSE Supervisor

PSO's
None onboard at this time

Science Party
None onboard at this time

Survey Progress (NJ3D)

Percentage of Prime Charged

0%

Prime Lines Completed

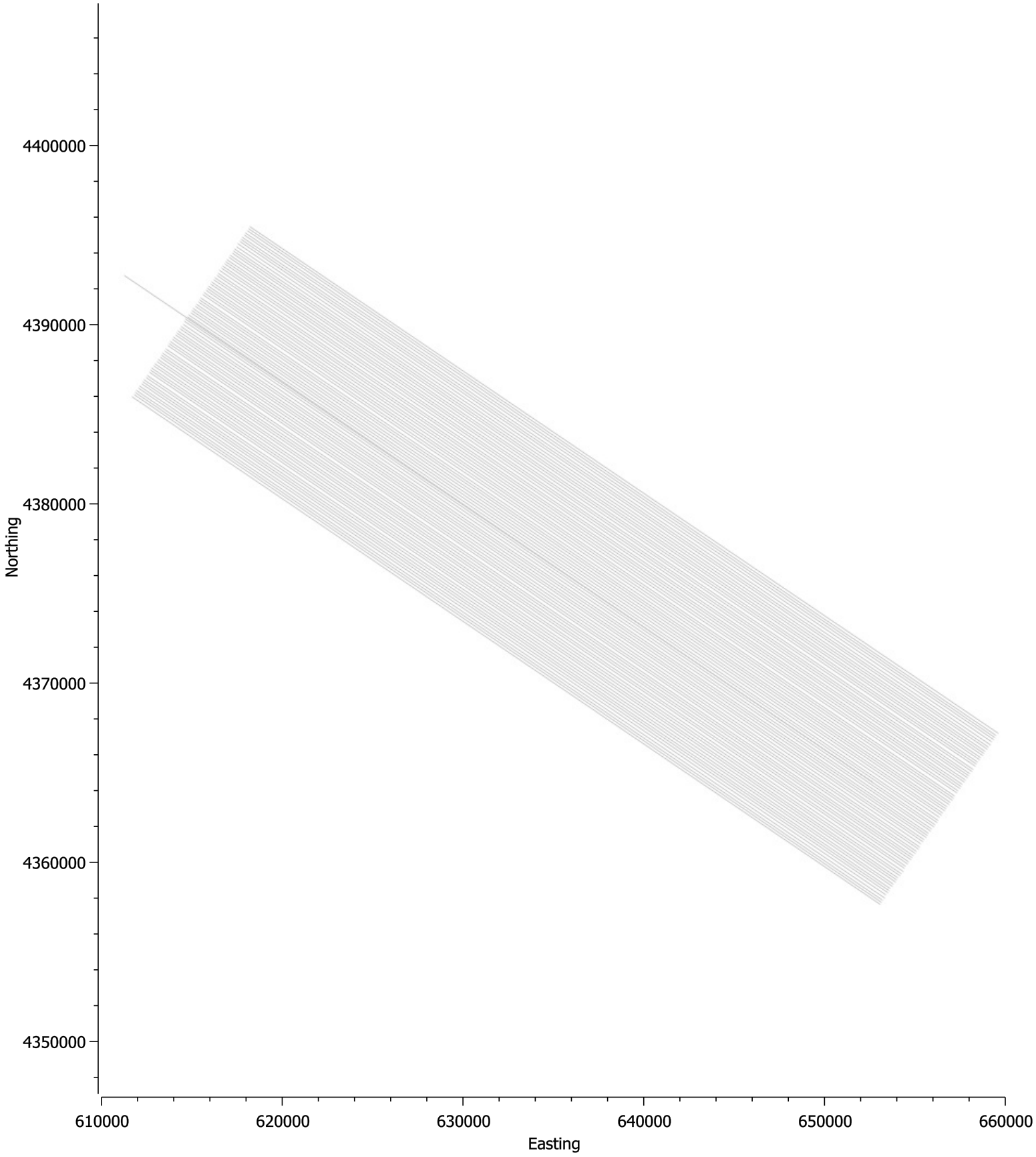
0%

Preplot Lines	Complete	Incomplete	Pending
79	0	0	0

Percentages Charged	
Prime	0.00% of 3949.01 km
Infill	0.00% of Charged Prime km
	0.00% of Preplot km

Average Daily Production	
Average Accepted Daily Prime and Infill Production	0.00 km
Average Charged Daily Prime and Infill Production	0.00 km

NJ3D: Accpt (5/29/2015 - 5/29/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

30 May 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	5500 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
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Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sat 30 May

The vessel will continue alongside the SUNY Maritime's facility. The Focus for today was the continued preparation for the cruise. Securing Equipment and spaces for getting underway. Continued P-Cable system training for Observers. Science Party and PSO started arriving onboard the vessel later in the day.

Daily Comment Summaries - Plan for Tomorrow

Sat 30 May

The vessel will continue alongside the SUNY Maritime's facility. The Focus for today will be on continuing with preparation for the cruise. Securing Equipment and spaces for getting underway. Continuing with more P-Cable system training for Observers. Science Party is expected to start arriving onboard the vessel later in the day. At ~18:30 UTC the IHA Conference will take place and at ~19:30 UTC the Science Department Safety Orientation will take place.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Sat 30. May 00:00	Sat 30. May 24:00	24.000
Mobilizing Ashore. Vessel at SUNY working on installation and rigging of Equipment associated with the upcoming P-Cable Survey.				

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
Total						**0.00**			

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Infill	0.00	0.00	0.00	0.00
Combined	**0.00**	**0.00**	**0.00**	**0.00**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Mobilisation	**48.000**	**100.000**
Mob Ashore	48.000	100.000
Total	48.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 30 May

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sat 30 May

Technical Staff
Steinhaus Robert Chief Science Officer
Martinson David Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Shehan Daniel Geometric's FS Engineer
Majzlik Edward James NCS FS Engineer

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
Portocarrero Claudia Lisseth Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI

Survey Progress (NJ3D)

Percentage of Prime Charged

0%

Prime Lines Completed

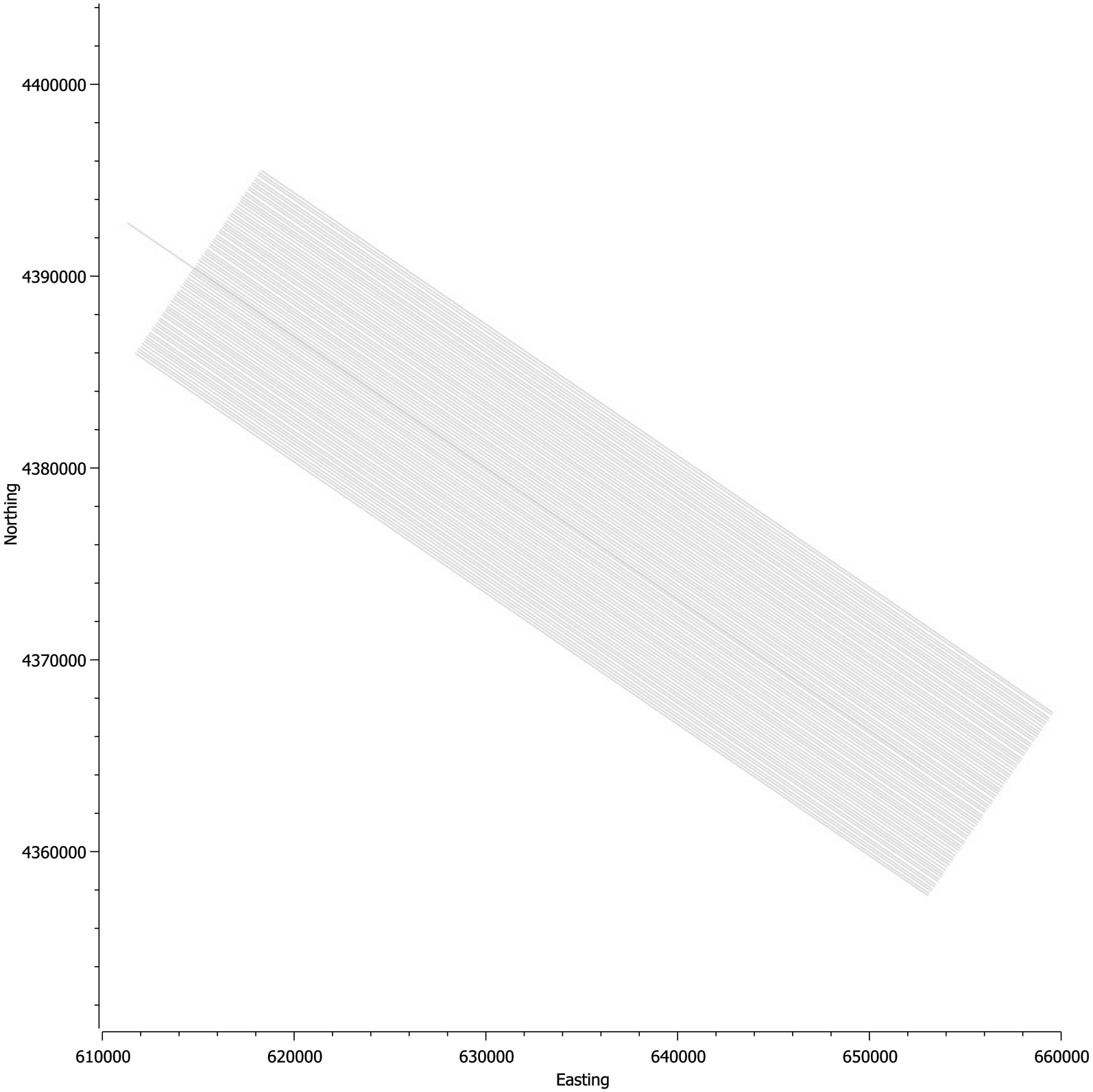
0%

Preplot Lines	Complete	Incomplete	Pending
79	0	0	0

Percentages Charged	
Prime	0.00% of 3949.01 km
Infill	0.00% of Charged Prime km
	0.00% of Preplot km

Average Daily Production	
Average Accepted Daily Prime and Infill Production	0.00 km
Average Charged Daily Prime and Infill Production	0.00 km

NJ3D: Accpt (5/29/2015 - 5/30/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

31 May 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	5500 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sun 31 May

The vessel will continue alongside the SUNY Maritime's facility. The Focus for today was the continued preparation for the cruise. Securing Equipment and spaces for getting underway. Continued P-Cable system training for Observers. All Science Party and PSO arrived onboard the vessel and a safety briefing took place in the afternoon.

Daily Comment Summaries - Plan for Tomorrow

Sun 31 May

The vessel will continue alongside the SUNY Maritime's facility until ~13:00 UTC at which time it will get underway for the survey area. ~18:00 UTC a Fire and Boat drill will take place and shortly after that the first of the towed equipment deployment will begin.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Sun 31. May 00:00	Sun 31. May 24:00	24.000
Mobilizing Ashore. Vessel at SUNY working on installation and rigging of Equipment associated with the upcoming P-Cable Survey.				

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
Total						**0.00**			

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Infill	0.00	0.00	0.00	0.00
Combined	**0.00**	**0.00**	**0.00**	**0.00**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Mobilisation	**72.000**	**100.000**
Mob Ashore	72.000	100.000
Total	72.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 31 May

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sun 31 May

Technical Staff
Steinhaus Robert Chief Science Officer
Martinson David Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
Portocarrero Claudia Lisseth Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Survey Progress (NJ3D)

Percentage of Prime Charged

0%

Prime Lines Completed

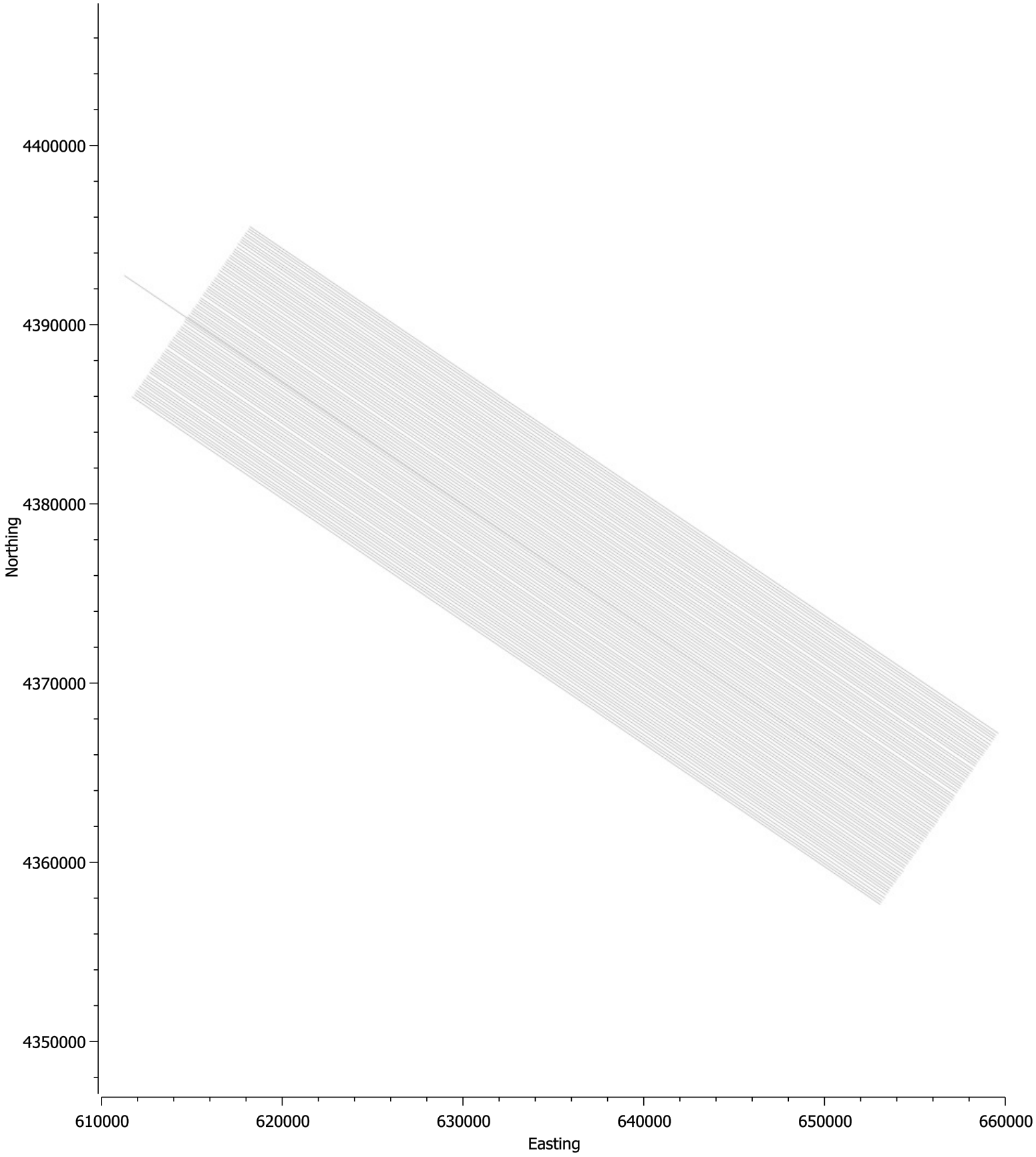
0%

Preplot Lines	Complete	Incomplete	Pending
79	0	0	0

Percentages Charged	
Prime	0.00% of 3949.01 km
Infill	0.00% of Charged Prime km
	0.00% of Preplot km

Average Daily Production	
Average Accepted Daily Prime and Infill Production	0.00 km
Average Charged Daily Prime and Infill Production	0.00 km

NJ3D: Accpt (5/28/2015 - 5/31/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

1 Jun 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.25 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Mon 01 Jun

The vessel continued alongside the SUNY Maritime's facility until 12:50 UTC at which time it got underway for the survey area. At 18:00 UTC a Fire and Boat drill took place. At 21:50 UTC the Vessel reached the survey area and began deployment of the P-Cable Equipment for testing and geometry (offset) measurements. This Continued throughout the rest of the day.

Daily Comment Summaries - Plan for Tomorrow

Mon 01 Jun

The vessel will start the day continuing with the deployment of the P-Cable Equipment for testing and geometry (offset) measurements. At ~03:00 recovery of the P-Cable equipment will begin. Once onboard the vessel will transit to sightly deeper water to begin the deployment of the long offset streamer. Once the Long Offset streamer is deployed and trim is good. The vessel will then re-deploy the P-Cable equipment and hopefully begin production.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Mon 1. Jun 00:00	Mon 1. Jun 12:50	12.833
Mobilizing Ashore. Vessel at SUNY working on installation and rigging of Equipment associated with the upcoming P-Cable Survey.				
Transit	SB_TRT	Mon 1. Jun 12:50	Mon 1. Jun 21:50	9.000
Transit to MGL1510 survey area				
Cable Reconfig	SB_REC_CR	Mon 1. Jun 21:50	Mon 1. Jun 24:00	2.167
Deployment of P-Cable Cross cable to measure all offsets and payout amounts.				

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
Total						**0.00**			

(UTC 00:00) UTC - Universal Time Coordinated
Generated on Tue Jun 2 2015 05:40am

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Infill	0.00	0.00	0.00	0.00
Combined	**0.00**	**0.00**	**0.00**	**0.00**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**11.167**	**11.632**
Reconfiguration	2.167	2.257
Cable Reconfig	2.167	2.257
Transit	9.000	9.375
Mobilisation	**84.833**	**88.368**
Mob Ashore	84.833	88.368
Total	96.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 01 Jun

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report - Minimal Problems deploying P-Cable. During trouble shooting of a power problem in the Cross Cable we did find that one of the spare boxes provided by Geometrics had a warped connector housing. There will be a E-Mail report sent in tomorrow with pictures.

Towing and Handling (Source):
No Major Issues to Report - Both Baravanes and other wide tow gear work well during the deployment and recovery.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Mon 01 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Martinson David Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
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Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
Portocarrero Claudia Lisseth Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

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Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Survey Progress (NJ3D)

Percentage of Prime Charged

0%

Prime Lines Completed

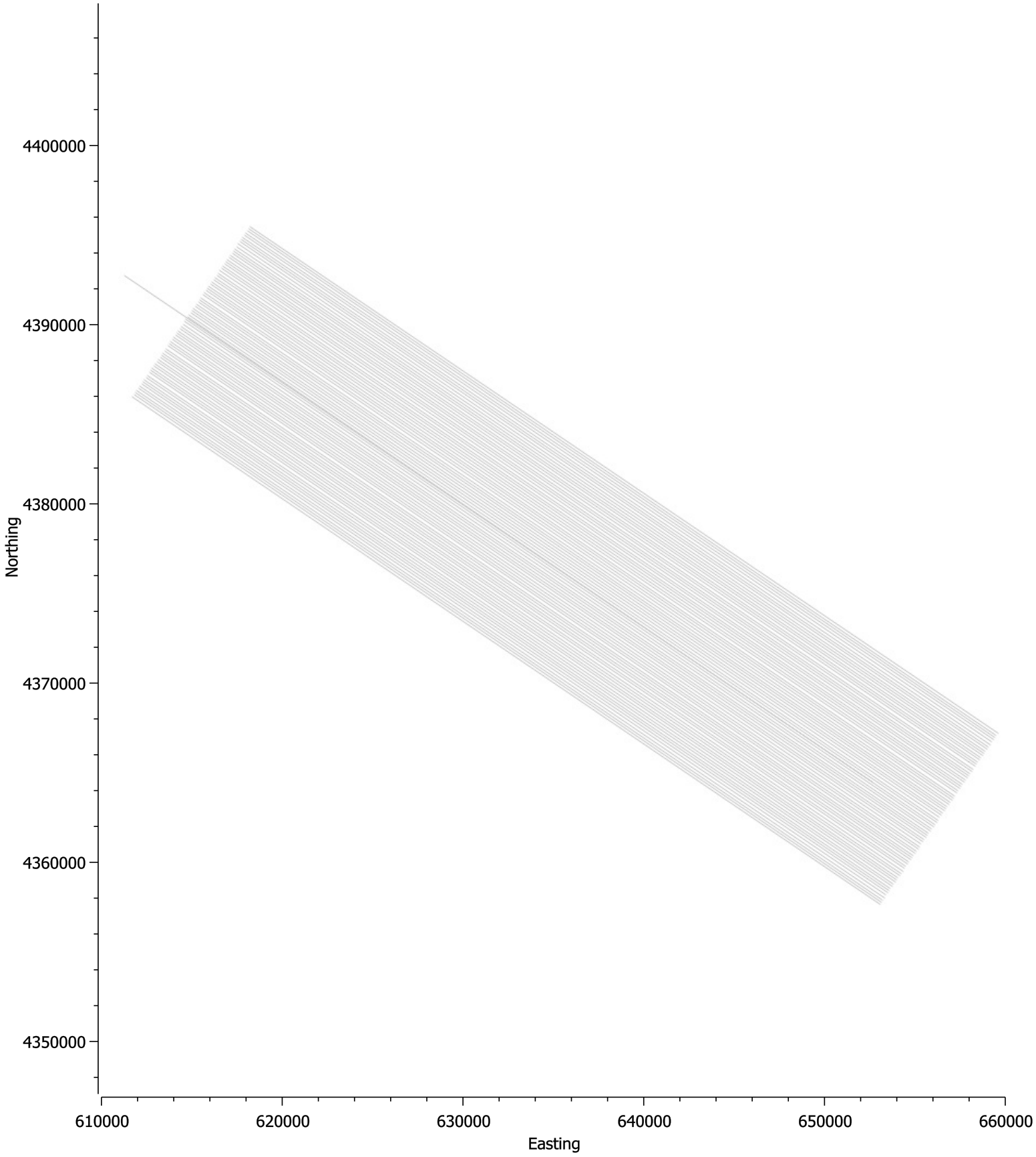
0%

Preplot Lines	Complete	Incomplete	Pending
79	0	0	0

Percentages Charged	
Prime	0.00% of 3949.01 km
Infill	0.00% of Charged Prime km
	0.00% of Preplot km

Average Daily Production	
Average Accepted Daily Prime and Infill Production	0.00 km
Average Charged Daily Prime and Infill Production	0.00 km

NJ3D: Accpt (5/28/2015 - 6/1/2015)



Daily Science Report

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Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

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Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Tue 02 Jun

Vessel at start of day was continued with deployment of the P-Cable Equipment for testing and geometry (offset) measurements. At 04:49 UTC All P-Cable equipment had been deployed and recovered with proper measurements. The Vessel had a short transit to the SE to get into deeper water so as to begin the deployment of the long offset streamer. At 07:04 Deployment of the long offset streamer was started and by 12:36 UTC was fully deployed and re-Deployment of the P-Cable system began. The P-Cable system and source was fully deployed at 19:40 UTC at which time the ramp of the source began and by 20:15 UTC the source was full power. At 20:22 UTC Production on Line MGL15102960 was started and the vessel continued in this mode throughout the rest of the day.

Daily Comment Summaries - Plan for Tomorrow

Tue 02 Jun

The vessel will start the day in production on MGL15102960. The line will be completed ~02:48 UTC at which time the vessel will make a standard line change to MGL15101924, which is expected to start at 03:56. Line MGL15101924 is expected to finish at ~12:00 UTC at which time the Port Side of the P-Cable array will be recovered to make repairs to the Port Tri-Point GPS. Also during this time the Long Offset streamer will be recovered to ~bird 5 to re-trim the streamer. Once this work is done all towed equipment will be re-deployed and it is hoped that the vessel will be back in production before days end.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Cable Reconfig	SB_REC_CR	Tue 2. Jun 00:00	Tue 2. Jun 03:05	3.083
Deployment of P-Cable Cross cable to measure all offsets and payout amounts.				
Cable Reconfig	SB_REC_CR	Tue 2. Jun 03:05	Tue 2. Jun 04:49	1.733
Recovering of P-Cable Cross cable after measuring all offsets and payout amounts.				
Cable Reconfig	SB_REC_CR	Tue 2. Jun 04:49	Tue 2. Jun 12:36	7.783
Deployment of Long Offset streamer				
Cable Reconfig	SB_REC_CR	Tue 2. Jun 12:36	Tue 2. Jun 18:07	5.517

Category	Code	Start	End	Duration
P-Cable Deployment				
Transit	SB_TRT	Tue 2. Jun 18:07	Tue 2. Jun 19:44	1.617
All Gear Deployed Transiting towards line				
Cetacean	SB_CT	Tue 2. Jun 19:44	Tue 2. Jun 20:15	0.517
Ramp up of Source				
Transit	SB_TRT	Tue 2. Jun 20:15	Tue 2. Jun 20:22	0.117
Source Ramped Up - Heading to line				
Production Prime	AC_PP	Tue 2. Jun 20:22	Tue 2. Jun 24:00	3.633
MGL15102860				

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
1		304.4	863	3287	Prime	30.31	4.674	Part	Midnight
Total						**30.31**			

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Tue 2 Jun	Marcus G Langseth	1	30.31
Total Production:			**30.31**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	30.31	30.31	30.31	30.31
Infill	0.00	0.00	0.00	0.00
Combined	**30.31**	**30.31**	**30.31**	**30.31**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.533**	**26.278**
Cetacean	0.517	0.431
Reconfiguration	20.283	16.903
Cable Reconfig	20.283	16.903
Transit	10.733	8.944
Mobilisation	**84.833**	**70.694**
Mob Ashore	84.833	70.694
Acquisition	**3.633**	**3.028**
Production Prime	3.633	3.028
Total	120.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 02 Jun

Navigation:
P-Cable Port Tri-Point GPS not Operational.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
Long Offset Streamer front end Heavy.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Tue 02 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Martinson David Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
Portocarrero Claudia Lisseth Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Survey Progress (NJ3D)

Percentage of Prime Charged

1%

Prime Lines Completed

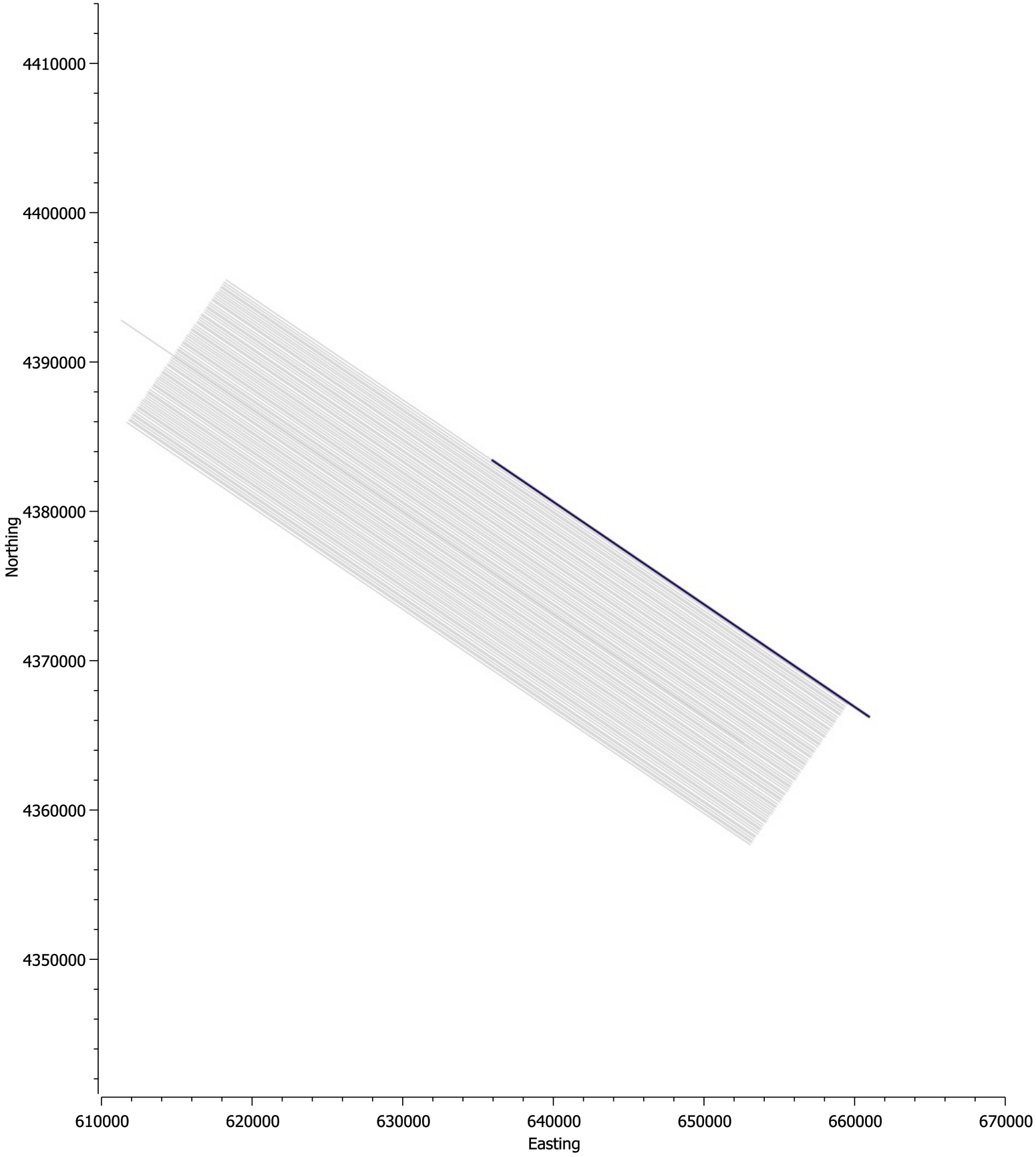
0%

Preplot Lines	Complete	Incomplete	Pending
79	0	1	0

Percentages Charged	
Prime	0.77% of 3949.01 km (Full fold)
Infill	0.00% of Charged Prime km (Sail Line)
	0.00% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	30.31 km
Average Charged Daily Prime and Infill Production	30.31 km

NJ3D: Accpt (5/28/2015 - 6/2/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

2 Jun 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Tue 02 Jun

Vessel at start of day was continued with deployment of the P-Cable Equipment for testing and geometry (offset) measurements. At 04:49 UTC All P-Cable equipment had been deployed and recovered with proper measurements. The Vessel had a short transit to the SE to get into deeper water so as to begin the deployment of the long offset streamer. At 07:04 Deployment of the long offset streamer was started and by 12:36 UTC was fully deployed and re-Deployment of the P-Cable system began. The P-Cable system and source was fully deployed at 19:40 UTC at which time the ramp of the source began and by 20:15 UTC the source was full power. At 20:22 UTC Production on Line MGL15102960 was started and the vessel continued in this mode throughout the rest of the day. - UPDATE : 6-7-2015 Line MGL15102960 NTBP due to no Nav Header recieved from NCS Nav Point to Geometrics P-Cable recording system

Daily Comment Summaries - Plan for Tomorrow

Tue 02 Jun

The vessel will start the day in production on MGL15102960. The line will be completed ~02:48 UTC at which time the vessel will make a standard line change to MGL15101924, which is expected to start at 03:56. Line MGL15101924 is expected to finish at ~12:00 UTC at which time the Port Side of the P-Cable array will be recovered to make repairs to the Port Tri-Point GPS. Also during this time the Long Offset streamer will be recovered to ~bird 5 to re-trim the streamer. Once this work is done all towed equipment will be re-deployed and it is hoped that the vessel will be back in production before days end.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Cable Reconfig	SB_REC_CR	Tue 2. Jun 00:00	Tue 2. Jun 03:05	3.083
Deployment of P-Cable Cross cable to measure all offsets and payout amounts.				
Cable Reconfig	SB_REC_CR	Tue 2. Jun 03:05	Tue 2. Jun 04:49	1.733
Recovering of P-Cable Cross cable after measuring all offsets and payout amounts.				
Cable Reconfig	SB_REC_CR	Tue 2. Jun 04:49	Tue 2. Jun 12:36	7.783
Deployment of Long Offset streamer				

Category	Code	Start	End	Duration
Cable Reconfig	SB_REC_CR	Tue 2. Jun 12:36	Tue 2. Jun 18:07	5.517
P-Cable Deployment				
Transit	SB_TRT	Tue 2. Jun 18:07	Tue 2. Jun 19:44	1.617
All Gear Deployed Transiting towards line				
Cetacean	SB_CT	Tue 2. Jun 19:44	Tue 2. Jun 20:15	0.517
Ramp up of Source				
Transit	SB_TRT	Tue 2. Jun 20:15	Tue 2. Jun 20:22	0.117
Source Ramped Up - Heading to line				
Production Prime	AC_PP	Tue 2. Jun 20:22	Tue 2. Jun 24:00	3.633
MGL15102860 - Line NTBP due to no Nav Header recieved from NCS Nav Point to Geometrics P-Cable recording system				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Infill	0.00	0.00	0.00	0.00
Combined	**0.00**	**0.00**	**0.00**	**0.00**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.533**	**26.278**
Cetacean	0.517	0.431
Reconfiguration	20.283	16.903
Cable Reconfig	20.283	16.903
Transit	10.733	8.944
Mobilisation	**84.833**	**70.694**
Mob Ashore	84.833	70.694
Acquisition	**3.633**	**3.028**
Production Prime	3.633	3.028
Total	120.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 02 Jun

Navigation:
P-Cable Port Tri-Point GPS not Operational.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
Long Offset Streamer front end Heavy.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Tue 02 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Martinson David Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
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Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
Portocarrero Claudia Lisseth Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
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Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
1	MGL15102860	304.4	N/A	N/A	Prime	0.00	N/A	Part	Mid(NTBP)
NTBP: 863 - 3287									
Total						**0.00**			

Survey Progress (NJ3D)

Percentage of Prime Charged

0%

Prime Lines Completed

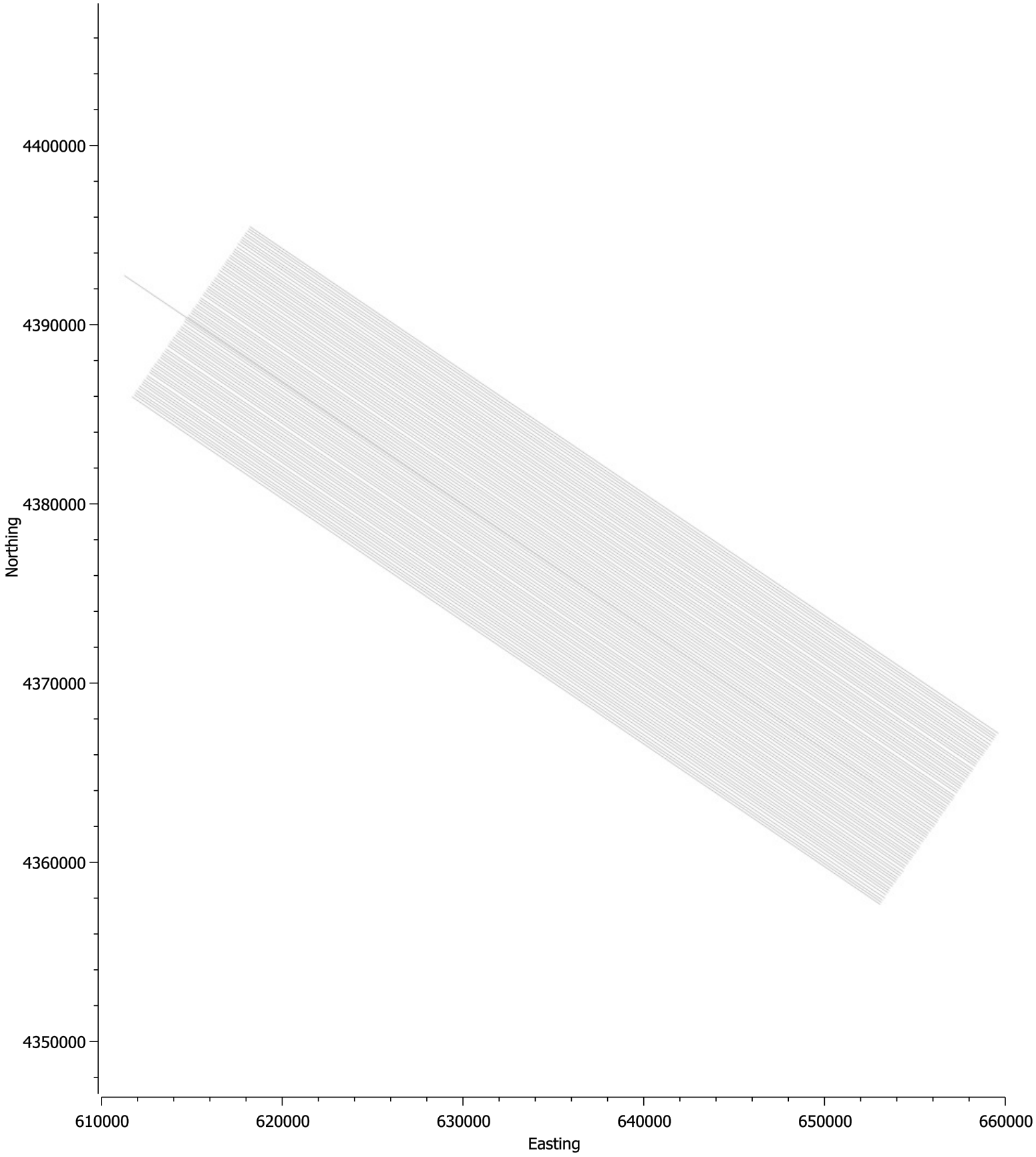
0%

Preplot Lines	Complete	Incomplete	Pending
79	0	0	0

Percentages Charged	
Prime	0.00% of 3949.01 km (Full fold)
Infill	0.00% of Charged Prime km (Sail Line)
	0.00% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	0.00 km
Average Charged Daily Prime and Infill Production	0.00 km

NJ3D: Accpt (5/29/2015 - 6/2/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Wed 03 Jun

The vessel started the day in production on MGL15102960. The line was completed ~02:48 UTC at which time the vessel will make a standard line change to MGL15101924, at 03:56. Line MGL15101924 is expected to finish at 10:16 UTC at which time the Port Side of the P-Cable array will be recovered to make repairs to the Port Tri-Point GPS. Also during this time the Long Offset streamer will be recovered to ~bird 5 to re-trim the streamer. Once the work was completed all towed equipment was re-deployed be re-deployed and production on Line MGL15102836 started at 19:34 and continued through the end of day.

Daily Comment Summaries - Plan for Tomorrow

Wed 03 Jun

The Vessel will start the day in Production on Line MGL15102836. It is hoped that by the end of day Production is complete on Lines MGL15102836, MGL15101900, MGL15102812, and production has started on MGL15101886.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 3. Jun 00:00	Wed 3. Jun 02:48	2.800
Line - MGL15102860				
Prime Line Change	AC_PLC	Wed 3. Jun 02:48	Wed 3. Jun 03:56	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Wed 3. Jun 03:56	Wed 3. Jun 10:46	6.833
Line - MGL15101924				
Streamer Reconfig	NC_REC_SR	Wed 3. Jun 10:46	Wed 3. Jun 11:11	0.417
Recovering Source and PAM to make repairs to Port Tri-Point and Re-Trim of Long offset streamer				
Streamer Reconfig	NC_REC_SR	Wed 3. Jun 11:11	Wed 3. Jun 12:32	1.350
Recovery of Port side of P-Cable array to re-trim long offset streamer				

Category	Code	Start	End	Duration
Streamer Reconfig	NC_REC_SR	Wed 3. Jun 12:32	Wed 3. Jun 13:42	1.167
Recovery of Long Offset Streamer				
Streamer Reconfig	NC_REC_SR	Wed 3. Jun 13:42	Wed 3. Jun 15:14	1.533
Re-Deployment of Long Offset Streamer				
Streamer Reconfig	NC_REC_SR	Wed 3. Jun 15:14	Wed 3. Jun 16:11	0.950
Re-Deploying Port side of P-Cable Array				
Streamer Reconfig	NC_REC_SR	Wed 3. Jun 16:11	Wed 3. Jun 17:06	0.917
Deploying Sub-Array 1 and PAM				
Streamer Reconfig	NC_REC_SR	Wed 3. Jun 17:06	Wed 3. Jun 19:34	2.467
Transit to Line MGL15102836				
Production Prime	AC_PP	Wed 3. Jun 19:34	Wed 3. Jun 24:00	4.433
Prime Production on line MGL15102836				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Wed 3 Jun	Marcus G Langseth	1 - 3	114.43
Total Production:			**114.43**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	114.43	144.74	144.74	144.74
Infill	0.00	0.00	0.00	0.00
Combined	**114.43**	**144.74**	**144.74**	**144.74**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.533**	**21.898**
Cetacean	0.517	0.359
Reconfiguration	20.283	14.086
Cable Reconfig	20.283	14.086
Transit	10.733	7.454
Mobilisation	**84.833**	**58.912**
Mob Ashore	84.833	58.912
Acquisition	**18.833**	**13.079**
Prime Line Change	1.133	0.787
Production Prime	17.700	12.292
Non-Chargeable StandBy	**8.800**	**6.111**
Reconfiguration	8.800	6.111
Streamer Reconfig	8.800	6.111
Total	144.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 03 Jun

Navigation:
Port P-Cable Tri-Point Failed shortly after re-deployment

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report - Long Offset streamer is towing much better after Trim work was completed yesterday.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 03 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Martinson David Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

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Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

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Nedimovic Mladen CO-PI
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Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
1	2860	304.4	3288	5161	Prime	23.43	4.605	Complete	Complete
2	1924	124.4	5088	865	Prime	52.80	4.171	Complete	Complete
3		304.4	881	3936	Prime	38.20	4.651	Part	Midnight
Total						**114.43**			

Survey Progress (NJ3D)

Percentage of Prime Charged

4%

Prime Lines Completed

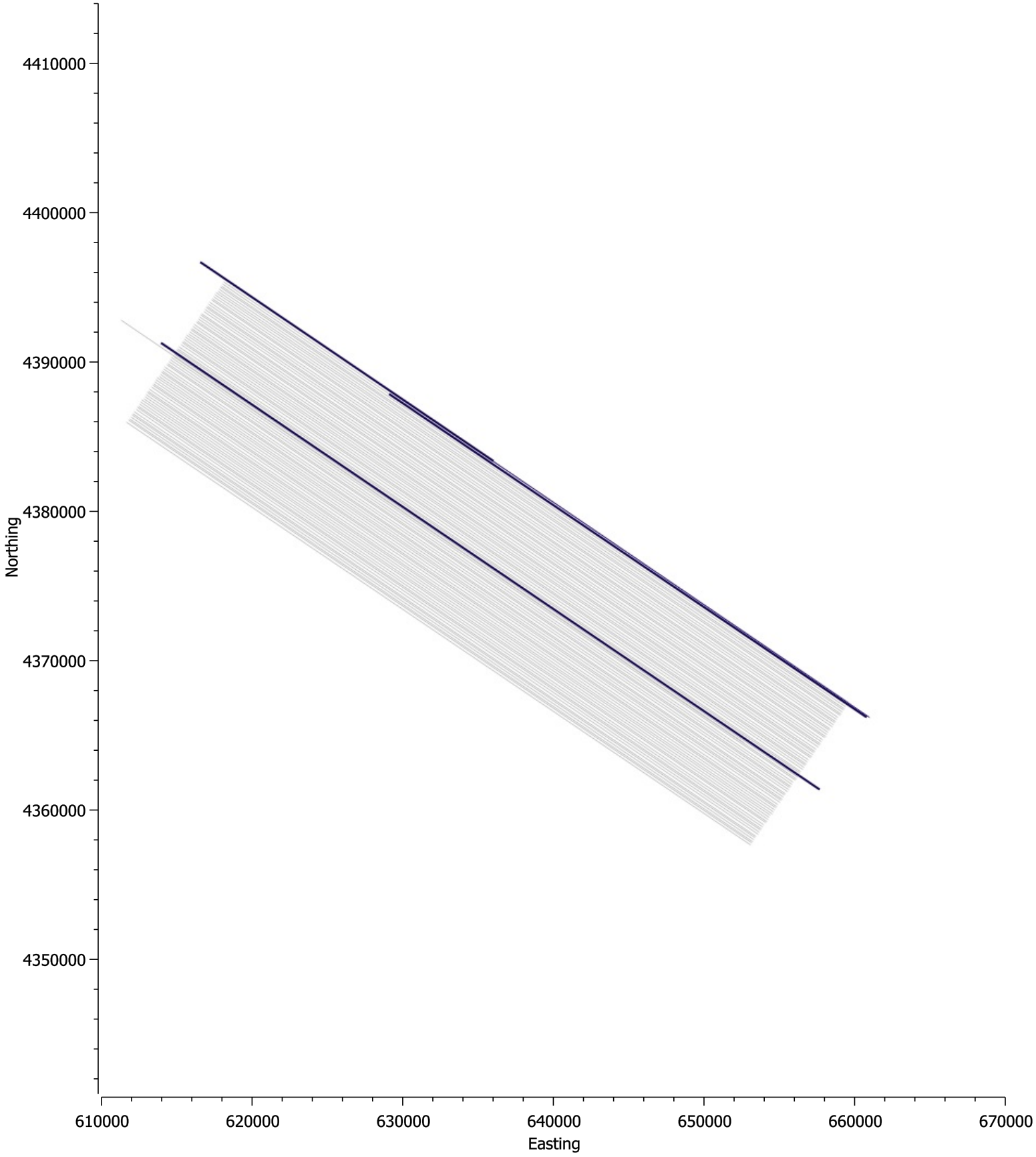
3%

Preplot Lines	Complete	Incomplete	Pending
79	2	1	0

Percentages Charged	
Prime	3.67% of 3949.01 km (Full fold)
Infill	0.00% of Charged Prime km (Sail Line)
	0.00% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	72.37 km
Average Charged Daily Prime and Infill Production	72.37 km

NJ3D: Accpt (5/29/2015 - 6/3/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

3 Jun 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Wed 03 Jun

The vessel started the day in production on MGL15102960. The line was completed ~02:48 UTC at which time the vessel will make a standard line change to MGL15101924, at 03:56. Line MGL15101924 is expected to finish at 10:16 UTC at which time the Port Side of the P-Cable array will be recovered to make repairs to the Port Tri-Point GPS. Also during this time the Long Offset streamer will be recovered to ~bird 5 to re-trim the streamer. Once the work was completed all towed equipment was re-deployed be re-deployed and production on Line MGL15102836 started at 19:34 and continued through the end of day. **UPDATE: 6-7-2015 - MGL15102960 and MGL15101924 - Lines NTBP due to no Nav Header recieved from NCS Nav Point to Geometrics P-Cable recording system.**

Daily Comment Summaries - Plan for Tomorrow

Wed 03 Jun

The Vessel will start the day in Production on Line MGL15102836. It is hoped that by the end of day Production is complete on Lines MGL15102836, MGL15101900, MGL15102812, and production has started on MGL15101886.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 3. Jun 00:00	Wed 3. Jun 02:48	2.800
Line - MGL15102860 -Line NTBP due to no Nav Header recieved from NCS Nav Point to Geometrics P-Cable recording system				
Prime Line Change	AC_PLC	Wed 3. Jun 02:48	Wed 3. Jun 03:56	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Wed 3. Jun 03:56	Wed 3. Jun 10:46	6.833
Line - MGL15101924 - Line NTBP due to no Nav Header recieved from NCS Nav Point to Geometrics P-Cable recording system				
Streamers	DT_ST	Wed 3. Jun 10:46	Wed 3. Jun 11:11	0.417
Recovering Source and PAM to make repairs to Port Tri-Point and Re-Trim of Long offset streamer				
Streamers	DT_ST	Wed 3. Jun 11:11	Wed 3. Jun 12:32	1.350

Category	Code	Start	End	Duration
Recovery of Port side of P-Cable array to re-trim long offset streamer				
Streamers	DT_ST	Wed 3. Jun 12:32	Wed 3. Jun 13:42	1.167
Recovery of Long Offset Streamer				
Streamers	DT_ST	Wed 3. Jun 13:42	Wed 3. Jun 15:14	1.533
Re-Deployment of Long Offset Streamer				
Streamers	DT_ST	Wed 3. Jun 15:14	Wed 3. Jun 16:11	0.950
Re-Deploying Port side of P-Cable Array				
Streamers	DT_ST	Wed 3. Jun 16:11	Wed 3. Jun 17:06	0.917
Deploying Sub-Array 1 and PAM				
Streamers	DT_ST	Wed 3. Jun 17:06	Wed 3. Jun 19:34	2.467
Transit to Line MGL15102836				
Production Prime	AC_PP	Wed 3. Jun 19:34	Wed 3. Jun 24:00	4.433
Prime Production on line MGL15102836				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Wed 3 Jun	Marcus G Langseth	3	38.20
Total Production:			**38.20**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	38.20	38.20	38.20	38.20
Infill	0.00	0.00	0.00	0.00
Combined	**38.20**	**38.20**	**38.20**	**38.20**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.533**	**21.898**
Cetacean	0.517	0.359
Reconfiguration	20.283	14.086
Cable Reconfig	20.283	14.086
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Mob Ashore	84.833	58.912
Acquisition	**18.833**	**13.079**
Prime Line Change	1.133	0.787
Production Prime	17.700	12.292
DownTime	**8.800**	**6.111**
Streamers	8.800	6.111
Total	144.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 03 Jun

Navigation:
Port P-Cable Tri-Point Failed shortly after re-deployment

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report - Long Offset streamer is towing much better after Trim work was completed yesterday.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 03 Jun

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Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
1	MGL15102860	304.4	N/A	N/A	Prime	0.00	4.517	NTBP	NTBP
NTBP: 3288 - 5161									
2	MGL15101924	124.4	N/A	N/A	Prime	0.00	N/A	NTBP	NTBP
NTBP: 5088 - 865									

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
3	MGL15102836	304.4	881	3936	Prime	38.20	4.651	Part	Midnight
Total						**38.20**			

Survey Progress (NJ3D)

Percentage of Prime Charged

1%

Prime Lines Completed

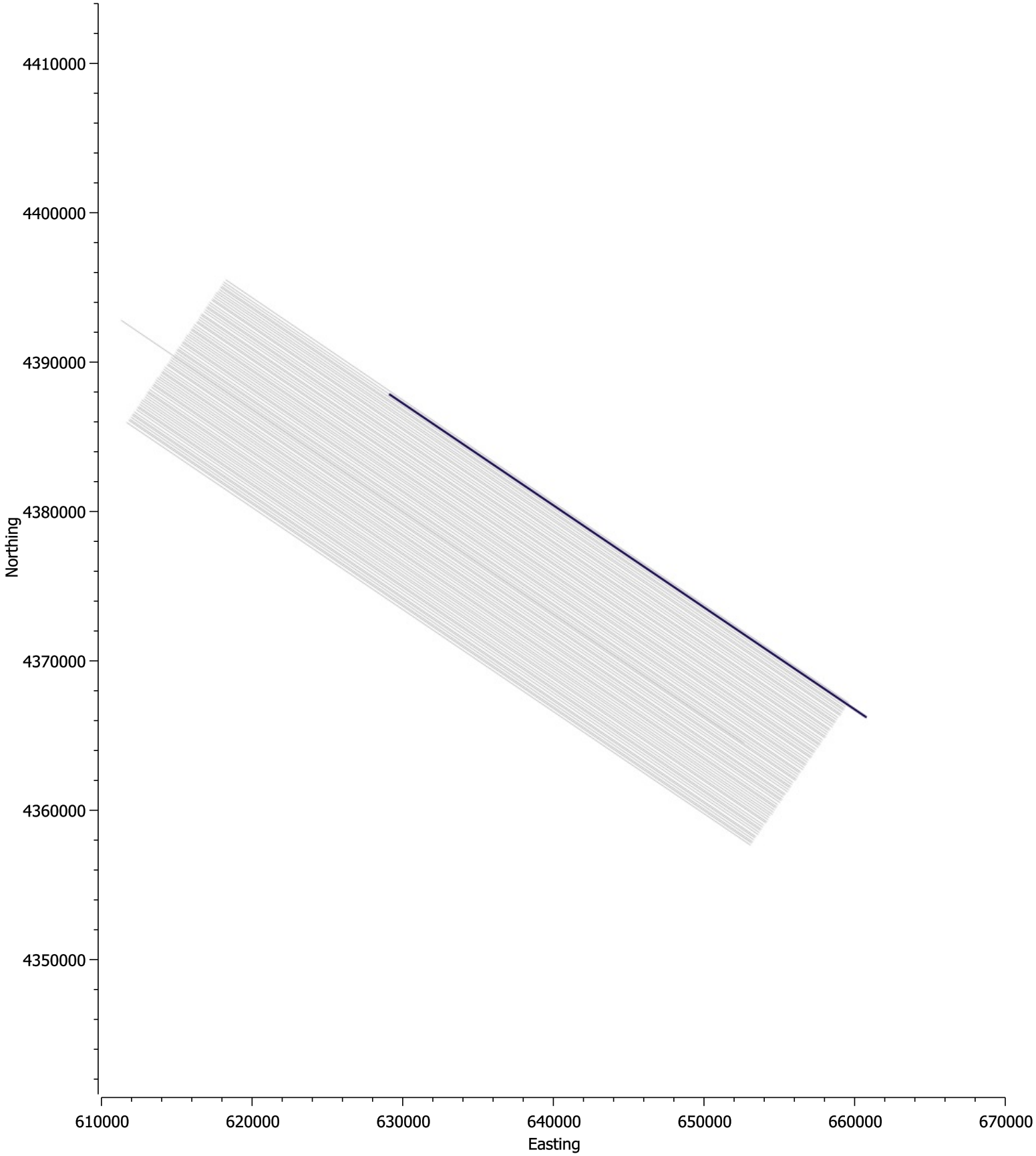
0%

Preplot Lines	Complete	Incomplete	Pending
79	0	1	0

Percentages Charged	
Prime	0.97% of 3949.01 km (Full fold)
Infill	0.00% of Charged Prime km (Sail Line)
	0.00% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	19.10 km
Average Charged Daily Prime and Infill Production	19.10 km

NJ3D: Accpt (5/29/2015 - 6/3/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

4 Jun 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Thu 04 Jun

The Vessel started the day in production on line MGL15102836. The Line was completed at 01:48 and a normal line change to MGL15101900 was undertaken. At 02:58 Line MGL15101900 was stared but at 04:51 the line was aborted due to the loss of GPS on the both the Port Tri-Point and Barovane. The gear was recovered and repaired and further re-deployed. At 17:40 the Vessel was back in production on line MGL15102812. At 23:58 this line was completed and the vessel started a normal line change to MGL15101900R that continued throughout the rest of the day.

Daily Comment Summaries - Plan for Tomorrow

Thu 04 Jun

The vessel is expected to be in production throughout the day. Hope to acquire data on line 1900R, 2788, and 1876 though out the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Thu 4. Jun 00:00	Thu 4. Jun 01:48	1.800
MGL15102836				
Prime Line Change	AC_PLC	Thu 4. Jun 01:48	Thu 4. Jun 02:58	1.167
Nominal Prime line change to MGL15101900				
Production Prime	AC_PP	Thu 4. Jun 02:58	Thu 4. Jun 04:51	1.883
MGL15101900 - Aborted due to GPS failure on both the Port Tri-Point and Barovane				
Nav Systems In-Sea	DT_NI	Thu 4. Jun 04:51	Thu 4. Jun 06:13	1.367
GPS on Port Tri-Point and Barovane Failure - Recovering Equipment to make repairs				
Nav Systems In-Sea	DT_NI	Thu 4. Jun 06:13	Thu 4. Jun 12:34	6.350
Making Repairs to GPS units Port Tri-Point and Port Barovane				

Category	Code	Start	End	Duration
Nav Systems In-Sea	DT_NI	Thu 4. Jun 12:34	Thu 4. Jun 14:24	1.833
Re-Deployment of equipment after re-pairs				
Nav Systems In-Sea	DT_NI	Thu 4. Jun 14:24	Thu 4. Jun 15:24	1.000
Downtime due to in sea navigation systems.				
Nav Systems In-Sea	DT_NI	Thu 4. Jun 15:24	Thu 4. Jun 17:40	2.267
Transit back to Survey Line MGL15102812				
Production Prime	AC_PP	Thu 4. Jun 17:40	Thu 4. Jun 23:58	6.300
MGL15102812				
Prime Line Change	AC_PLC	Thu 4. Jun 23:58	Thu 4. Jun 24:00	0.033
Nominal Prime line change.				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Thu 4 Jun	Marcus G Langseth	3 - 5	82.64
Total Production:			**82.64**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	82.64	227.38	227.38	227.38
Infill	0.00	0.00	0.00	0.00
Combined	**82.64**	**227.38**	**227.38**	**227.38**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.533**	**18.770**
Cetacean	0.517	0.308
Reconfiguration	20.283	12.073
Cable Reconfig	20.283	12.073
Transit	10.733	6.389
Mobilisation	**84.833**	**50.496**
Mob Ashore	84.833	50.496
DownTime	**21.617**	**12.867**
Nav Systems In-Sea	12.817	7.629
Streamers	8.800	5.238
Acquisition	**30.017**	**17.867**
Prime Line Change	2.333	1.389
Production Prime	27.683	16.478
Total	168.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 04 Jun

Navigation:
No Major Issues to Report - All In water Positioning systems operational

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
Phone System internal battery dead. On reset it lost all our settings and we are awaiting further trouble shooting information from EATON.

Daily Comment Summaries - Personnel Onboard

Thu 04 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Martinson David Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
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Hackett Tyler Mate Intern

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Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
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O'Dea Shelia Contract RPS PSO
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Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
3	2836	304.4	3937	5137	Prime	15.01	4.608	Complete	Complete
4	1900	124.4	5111	3989	Prime	14.04	4.169	Complete	Incomplete
NTBP: 3988 - 3828									
5	2812	304.4	851	5137	Prime	53.59	4.592	Complete	Complete
Total						**82.64**			

Survey Progress (NJ3D)

Percentage of Prime Charged

5%

Prime Lines Completed

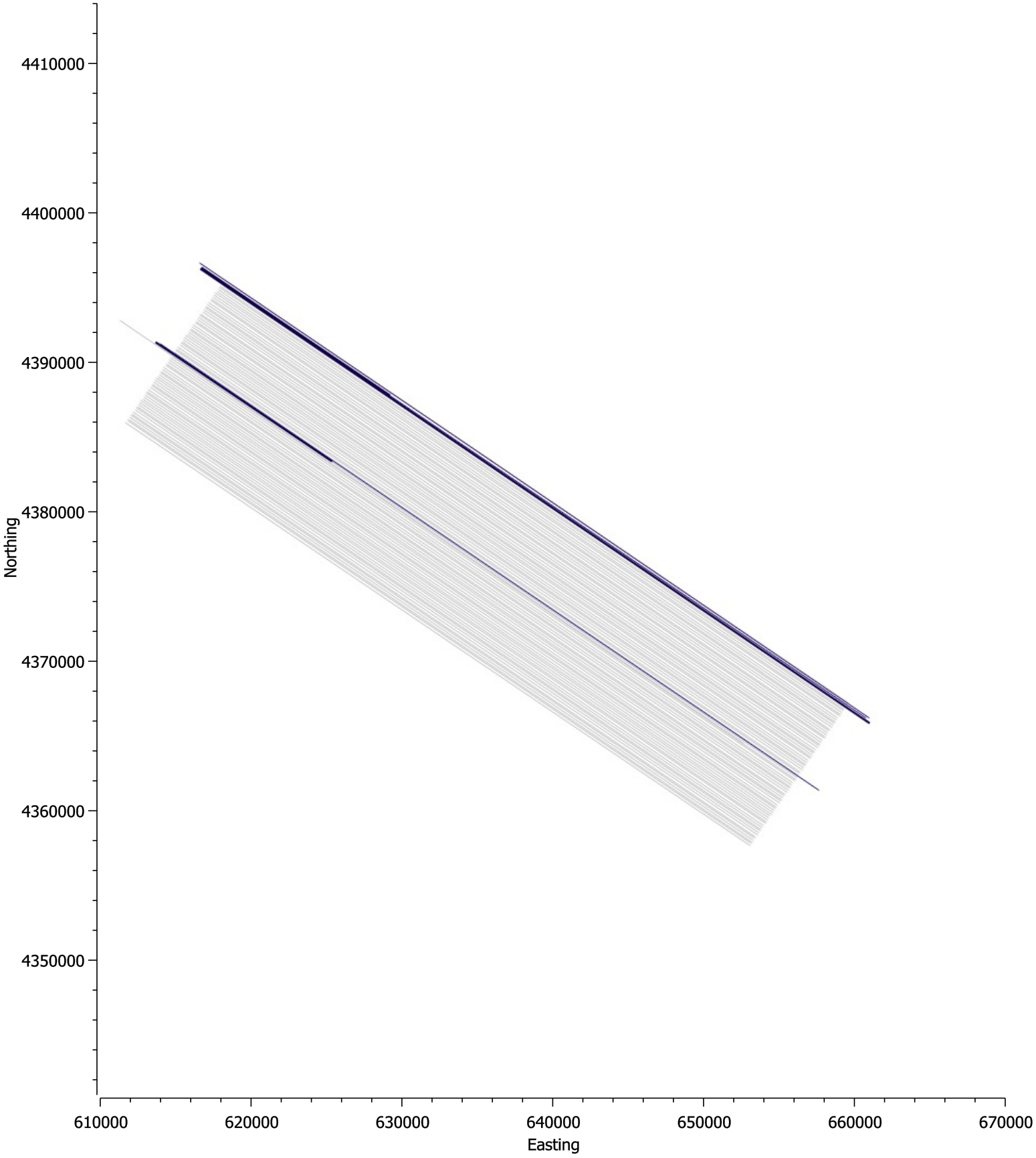
5%

Preplot Lines	Complete	Incomplete	Pending
79	4	1	0

Percentages Charged	
Prime	5.38% of 3949.01 km (Full fold)
Infill	0.00% of Charged Prime km (Sail Line)
	0.00% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	75.79 km
Average Charged Daily Prime and Infill Production	70.79 km

NJ3D: Accpt (5/29/2015 - 6/4/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Fri 05 Jun

Vessel remained in production throughout the day and was able to complete 3 Sequences, MGL15101900R, MGL15102788, and MGL15101876.

Daily Comment Summaries - Plan for Tomorrow

Fri 05 Jun

The plan was for the vessel to remain in production through out the day. However due to an Air-leak on Sub-Array #1 at 02:33 UTC and issue on recovery the source was secured during the night. At 11:27 UTC the fog has lifted enough for the PSO to start clearing the area. Ramp-up of the source was started at 11:58 UTC and was Completed at 12:28 UTC. The vessel is en-route to MGL15101862
It is expected that the vessel will re-start production on Line MGL15101852 at ~14:30 UTC and should remain in production throughout the rest of the day.

At 11:52 UTC the FRB was launched to completed a personnel transfer to US Towboat #2. David Martinson departed the vessel and FRB was back onboard by 12:10 UTC.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Prime Line Change	AC_PLC	Fri 5. Jun 00:00	Fri 5. Jun 01:07	1.117
Nominal Prime line change.				
Production Prime	AC_PP	Fri 5. Jun 01:07	Fri 5. Jun 07:29	6.367
MGL15101900R - Infill/Reshoot/Prime Infill SP - 5110 to 3989 Reshoot SP - 3988 to 3828 Prime SP - 3827 to 864				
Prime Line Change	AC_PLC	Fri 5. Jun 07:29	Fri 5. Jun 08:38	1.150

Category	Code	Start	End	Duration
Nominal Prime line change.				
Production Prime	AC_PP	Fri 5. Jun 08:38	Fri 5. Jun 14:53	6.250
MGL15102788				
Prime Line Change	AC_PLC	Fri 5. Jun 14:53	Fri 5. Jun 16:03	1.167
Nominal Prime line change.				
Production Prime	AC_PP	Fri 5. Jun 16:03	Fri 5. Jun 22:28	6.417
MGL15101876				
Prime Line Change	AC_PLC	Fri 5. Jun 22:28	Fri 5. Jun 24:00	1.533
Nominal Prime line change.				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Fri 5 Jun	Marcus G Langseth	6 - 8	159.48
Total Production:			**159.48**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	143.44	370.81	370.81	370.81
Infill	14.03	14.03	14.03	14.03
Prime, Reshoot	2.01	2.01	2.01	2.01
Combined	**159.47**	**386.85**	**386.85**	**386.85**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.533**	**16.424**
Cetacean	0.517	0.269
Reconfiguration	20.283	10.564
Cable Reconfig	20.283	10.564
Transit	10.733	5.590
Mobilisation	**84.833**	**44.184**
Mob Ashore	84.833	44.184
DownTime	**21.617**	**11.259**
Nav Systems In-Sea	12.817	6.675
Streamers	8.800	4.583
Acquisition	**54.017**	**28.134**
Prime Line Change	7.300	3.802
Production Prime	46.717	24.332
Total	192.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 05 Jun

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Fri 05 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
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Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
6	MGL15101900R	304.4	5110	3989	Infill	14.03	4.365	Complete	Complete
6	MGL15101900R	124.4	3988	3828	Prime, Reshoot	2.01	4.628	Complete	Complete
6	MGL15101900R	124.4	3827	864	Prime	37.05	4.562	Complete	Complete
7	MGL15102788	304.4	872	5137	Prime	53.33	4.606	Complete	Complete
8	MGL15101876	124.4	5109	865	Prime	53.06	4.464	Complete	Complete
Total						**159.48**			

Survey Progress (NJ3D)

Percentage of Prime Charged

9%

Prime Lines Completed

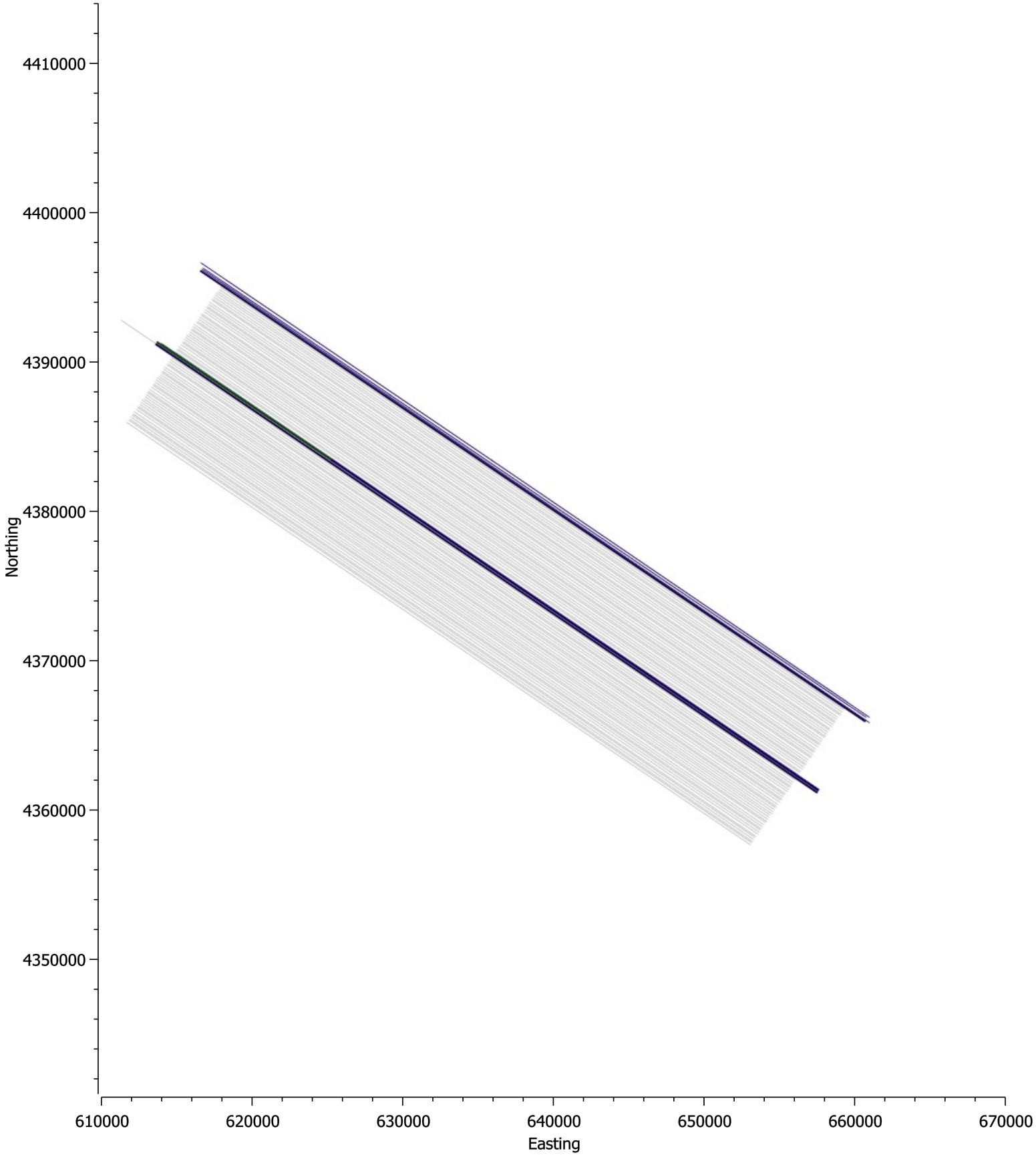
9%

Preplot Lines	Complete	Incomplete	Pending
79	7	0	0

Percentages Charged	
Prime	9.06% of 3949.01 km (Full fold)
Infill	3.92% of Charged Prime km (Sail Line)
	0.35% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	96.71 km
Average Charged Daily Prime and Infill Production	92.96 km

NJ3D: Accpt (5/29/2015 - 6/5/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / David Martinson
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sat 06 Jun

Thee vessel to remain in production until a Air-leak on Sub-Array #1 at 02:33 UTC forced the a shutdown and a issue on recovery the source was secured during the night. At 11:27 UTC the fog lifted enough for the PSO to start clearing the area. Ramp-up of the source was started at 11:58 UTC and was Completed at 12:28 UTC. Once the source was ramped up the vessel continued en-route to MGL15101862
at 14:20 UTC the vessel re-start production on Line MGL15101852 and remain in production throughout the rest of the day.

During Line MGL15101852 - the vessel had to make a large deviation off line (2km) due to Sport Fishing vessel Benchmark sitting online. No Data was lost, but there will be a need to complete a Infill pass at a later date.

At 11:52 UTC the FRB was launched to completed a personnel transfer to US Towboat #2. David Martinson departed the vessel and the FRB was back onboard by 12:10 UTC.

Daily Comment Summaries - Plan for Tomorrow

Sat 06 Jun

The Vessel should remain in production throughout the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Sat 6. Jun 00:00	Sat 6. Jun 03:11	3.183
MGL15102764 - Early EOL due to Airleak Sub-Array 1 Element 4				
Source	DT_SC	Sat 6. Jun 03:11	Sat 6. Jun 05:12	2.017
Downtime due to source. Making Re-paires to Sub-Array 1 Element 4				
Source	DT_SC	Sat 6. Jun 05:12	Sat 6. Jun 06:20	1.133
Downtime due to source. Untangling Sub-array 1 & 2				
Source	DT_SC	Sat 6. Jun 06:20	Sat 6. Jun 09:20	3.000

Category	Code	Start	End	Duration
Downtime due to source. Making Repairs to Sub-Array 1 after tangling with Sub-Array 2				
Source	DT_SC	Sat 6. Jun 09:20	Sat 6. Jun 11:58	2.633
Downtime due to source. Sub-Array 1 deployed awaiting clearance from PSO to begin Ramp UP. Heavy Fog and radius cannot be cleared.				
Source	DT_SC	Sat 6. Jun 11:58	Sat 6. Jun 12:29	0.517
Downtime due to source. - Ramping up Source				
Source	DT_SC	Sat 6. Jun 12:29	Sat 6. Jun 14:20	1.850
Downtime due to source. - Source at full Volume heading towards Line MGL15101852				
Production Prime	AC_PP	Sat 6. Jun 14:20	Sat 6. Jun 20:25	6.083
MGL15101852 - Line had large deviation off line (2km) due to Sport Fishing vessel Benchmark sitting online. No Data was lost, but will need to complete a Infill pass at a later date.				
Prime Line Change	AC_PLC	Sat 6. Jun 20:25	Sat 6. Jun 21:43	1.300
Nominal Prime line change.				
Production Prime	AC_PP	Sat 6. Jun 21:43	Sat 6. Jun 24:00	2.283
MGL15102740				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sat 6 Jun	Marcus G Langseth	9 - 11	94.63
Total Production:			**94.63**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	94.63	468.89	468.89	468.89
Infill	0.00	14.03	14.03	14.03
Prime, Reshoot	0.00	2.01	2.01	2.01
Combined	**94.63**	**484.92**	**484.92**	**484.92**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.533**	**14.599**
Cetacean	0.517	0.239
Reconfiguration	20.283	9.390
Cable Reconfig	20.283	9.390
Transit	10.733	4.969
Mobilisation	**84.833**	**39.275**
Mob Ashore	84.833	39.275
DownTime	**32.767**	**15.170**
Nav Systems In-Sea	12.817	5.934
Source	11.150	5.162
Streamers	8.800	4.074
Acquisition	**66.867**	**30.957**
Prime Line Change	8.600	3.981
Production Prime	58.267	26.975
Total	216.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 06 Jun

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
Sub-Array 1 Element 4 developed an Air Leak During line MGL15102764. It was recovered for repairs and during this processes became tangled with Sub-Array 2. The source was secured and both Sub-Arrays where recovered to make repairs. To avoid further tangling issue a 40 in3 Element has been rigged off the Stbd Tailbuoy Boom which can be lowered into the water while repairs are being made to Sub-Array 1.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sat 06 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
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Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
9	MGL15102764	304.4	1160	2924	Prime	22.06	4.667	Complete	Incomplete
NTBP: 2925 - 3311									
10	MGL15101852	124.4	5123	865	Prime	53.24	4.598	Complete	Complete
11	MGL15102740	304.4	885	2430	Prime	19.33	3.747	Part	Midnight
Total						**94.63**			

Survey Progress (NJ3D)

Percentage of Prime Charged

12%

Prime Lines Completed

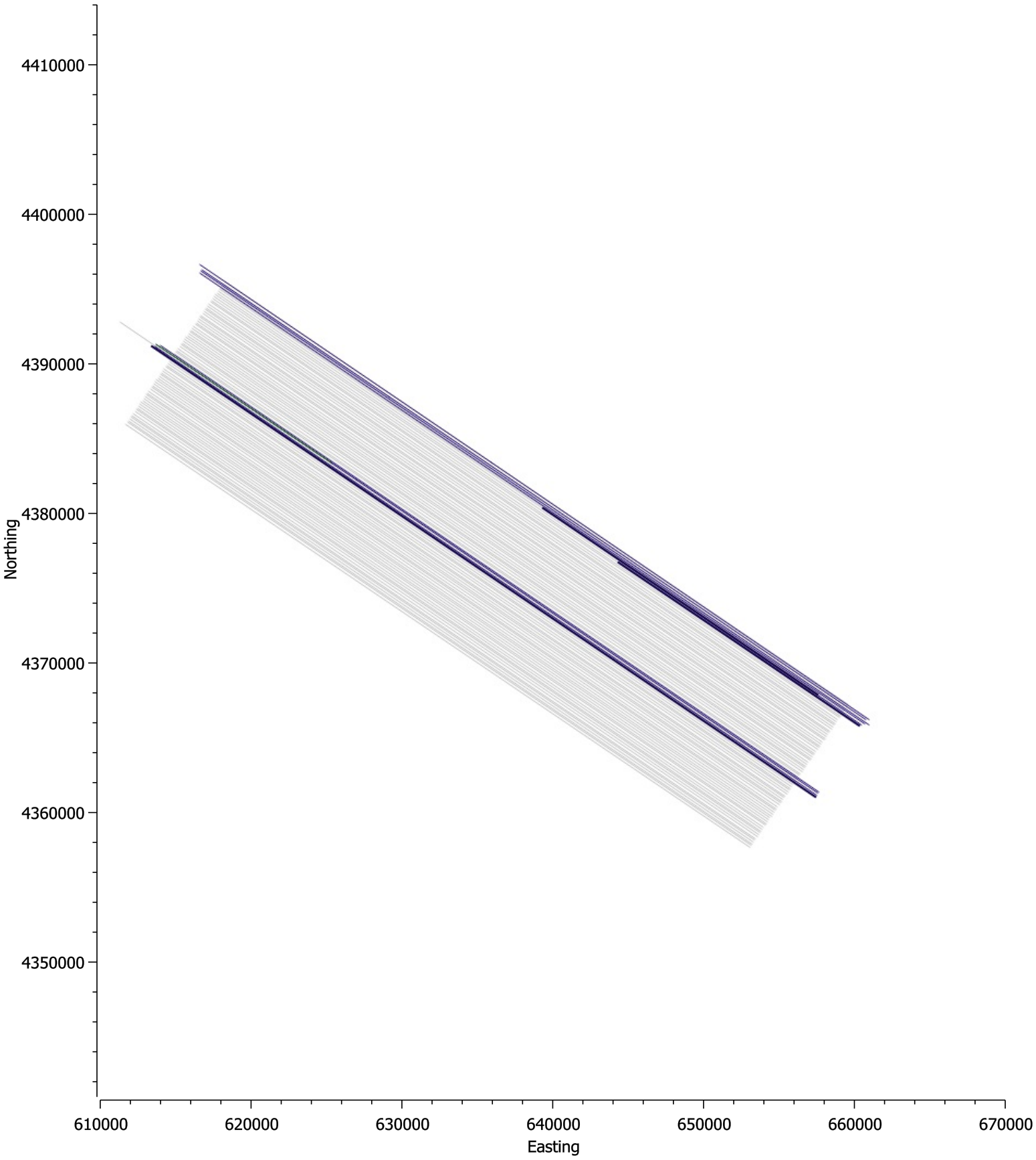
10%

Preplot Lines	Complete	Incomplete	Pending
79	8	1	0

Percentages Charged	
Prime	11.54% of 3949.01 km (Full fold)
Infill	3.08% of Charged Prime km (Sail Line)
	0.35% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	96.99 km
Average Charged Daily Prime and Infill Production	93.98 km

NJ3D: Accpt (5/29/2015 - 6/6/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

7 Jun 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sun 07 Jun

Thee vessel was in production most of the day. Sub-Array 1 Element 4 developed Solenoid Leakage near the end of MGL15101828. It was recovered during line change an repairs where made. During this same line change another 180 in3 Element was installed on the position 4 hanger, to be used as needed. The 40 in3 Element had been rigged off the Stbd Tailbuoy Boom was lowered into the water and allowed for repairs are being made to Sub-Array 1, with out delaying production. There where a number of Power downs throughout the day for PSO Sightings. 3 Sightings during Production and 2 while the vessel was on line change.

Daily Comment Summaries - Plan for Tomorrow

Sun 07 Jun

The Plan was for the vessel to remain in production throughout the day. However at ~07:40 UTC a telemetry issue developed in the P-Cable System and communication with Streamers 19 to 24 was lost. The P-Cable is currently being recovered and once repairs are completed will be re-deployed and the vessel will re-start production.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Sun 7. Jun 00:00	Sun 7. Jun 03:56	3.933
MGL15102740				
Prime Line Change	AC_PLC	Sun 7. Jun 03:56	Sun 7. Jun 05:04	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Sun 7. Jun 05:04	Sun 7. Jun 11:26	6.367
MGL15101828 - Line had deviation off line (500m) due to Sport Fishing vessel and sailing vessel track line. No Data was lost, but will need to complete a Infill pass at a later date.				
Prime Line Change	AC_PLC	Sun 7. Jun 11:26	Sun 7. Jun 12:35	1.150
Nominal Prime line change.				

Category	Code	Start	End	Duration
Prime Extended L/C	DT_PXL	Sun 7. Jun 12:35	Sun 7. Jun 13:07	0.533
Extended Prime line change extended for source maintenance				
Production Prime	AC_PP	Sun 7. Jun 13:07	Sun 7. Jun 14:49	1.700
MGL15102716				
Cetacean	SB_CT	Sun 7. Jun 14:49	Sun 7. Jun 14:55	0.100
Chargeable standby due to close proximity of Cetaceans. (Turtle)				
Production Prime	AC_PP	Sun 7. Jun 14:55	Sun 7. Jun 18:16	3.350
MGL15102716				
Cetacean	SB_CT	Sun 7. Jun 18:16	Sun 7. Jun 18:21	0.083
Chargeable standby due to close proximity of Cetaceans. (Turtle)				
Production Prime	AC_PP	Sun 7. Jun 18:21	Sun 7. Jun 19:40	1.317
MGL15102716				
Prime Line Change	AC_PLC	Sun 7. Jun 19:40	Sun 7. Jun 20:44	1.067
Nominal line change to MGL15101924R				
Production Prime	AC_PP	Sun 7. Jun 20:44	Sun 7. Jun 20:55	0.183
MGL15101924R				
Cetacean	SB_CT	Sun 7. Jun 20:55	Sun 7. Jun 21:03	0.133
Chargeable standby due to close proximity of Cetaceans. (Turtle)				
Production Prime	AC_PP	Sun 7. Jun 21:03	Sun 7. Jun 24:00	2.950
MGL15101924R				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sun 7 Jun	Marcus G Langseth	11 - 14	155.10
Total Production:			**155.10**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	129.04	491.39	491.39	491.39
Infill	0.00	14.03	14.03	14.03
Prime, Reshoot	26.06	28.08	28.08	28.08
Combined	**155.10**	**533.49**	**533.49**	**533.49**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.850**	**13.271**
Cetacean	0.833	0.347
Reconfiguration	20.283	8.451
Cable Reconfig	20.283	8.451
Transit	10.733	4.472
Mobilisation	**84.833**	**35.347**
Mob Ashore	84.833	35.347
DownTime	**33.300**	**13.875**
Nav Systems In-Sea	12.817	5.340
Prime Extended L/C	0.533	0.222
Source	11.150	4.646

Category	Hours	% Percent
Streamers	8.800	3.667
Acquisition	**90.017**	**37.507**
Prime Line Change	11.950	4.979
Production Prime	78.067	32.528
Total	240.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 07 Jun

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
Sub-Array 1 Element 4 developed Solenoid Leakage near the end of MGL15101828. It was recovered during line change an repairs where made. During this same line change another 180 in3 Element was installed on the position 4 hanger, to be used as needed. The 40 in3 Element had been rigged off the Stbd Tailbuoy Boom was lowered into the water and allowed for repairs are being made to Sub-Array 1, with out delaying production.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sun 07 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
11	MGL15102740	304.4	2431	5137	Prime	33.84	4.273	Complete	Complete
12	MGL15101828	124.4	5128	865	Prime	53.30	4.519	Complete	Complete
13	MGL15102716	304.4	855	2060	Prime	15.08	4.784	Part	Incomplete
13	MGL15102716	304.4	2125	4269	Prime	26.81	4.320	Part	Incomplete
13	MGL15102716	304.4	4332	4332	Prime	0.01	0.000	Part	Incomplete
14	MGL15101924R	124.4	5110	4994	Prime, Reshoot	1.46	4.271	Part	Incomplete
14	MGL15101924R	124.4	4925	2958	Prime, Reshoot	24.60	4.450	Part	Midnight
Total						**155.10**			

Survey Progress (NJ3D)

Percentage of Prime Charged

13%

Prime Lines Completed

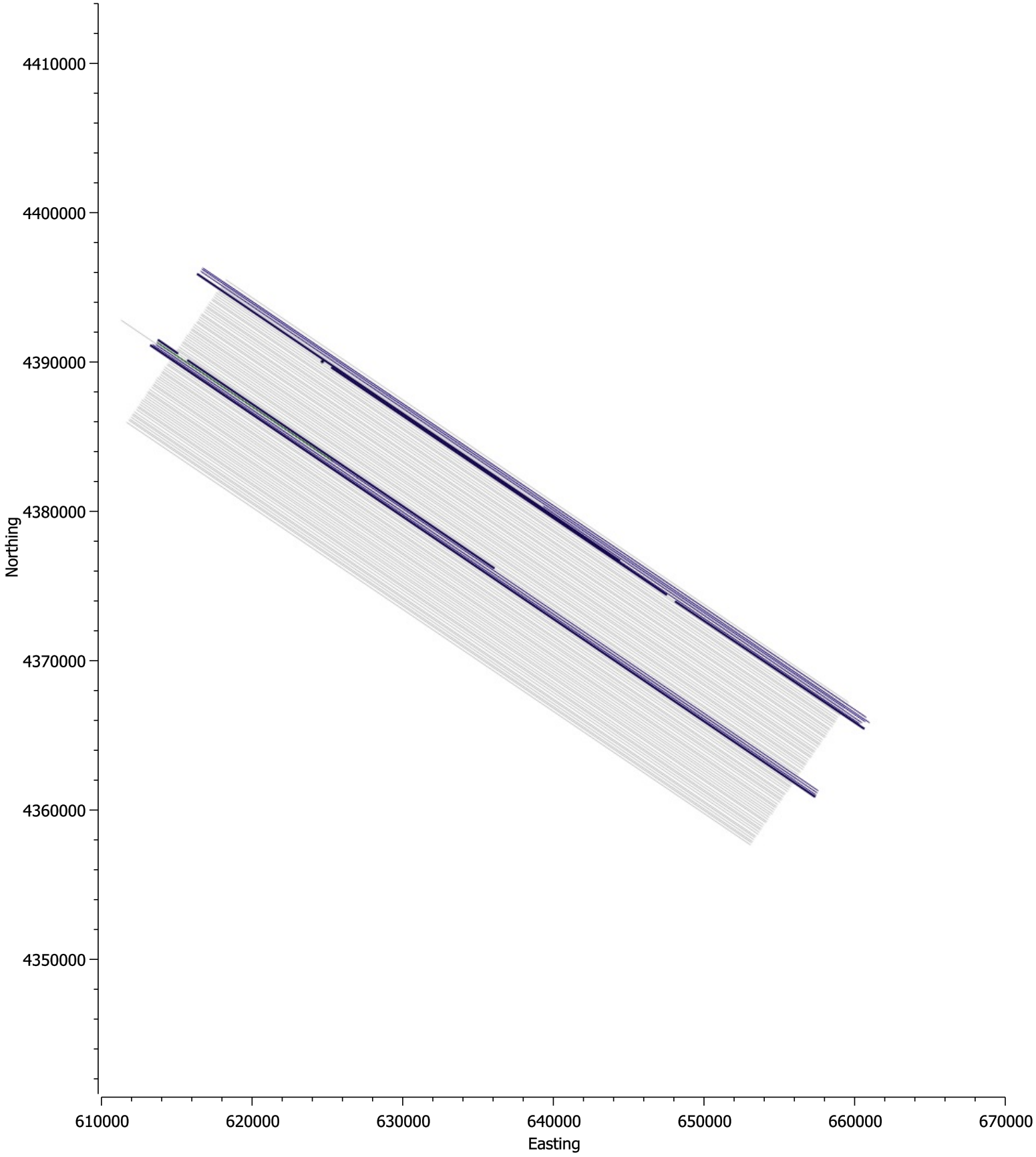
10%

Preplot Lines	Complete	Incomplete	Pending
79	8	3	0

Percentages Charged	
Prime	12.77% of 3949.01 km (Full fold)
Infill	2.78% of Charged Prime km (Sail Line)
	0.35% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	88.91 km
Average Charged Daily Prime and Infill Production	86.41 km

NJ3D: Accpt (5/29/2015 - 6/7/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Mon 08 Jun

The Plan was for the vessel to remain in production throughout the day. However at ~07:40 UTC a telemetry issue developed in the P-Cable System and communication with Streamers 19 to 24 was lost. The P-Cable was recovered, repaired (Junction Box 19 Replaced), and redeployed. However shortly after its re-deployment communication with Streamers 19-24 stopped again. The P-Cable system recovered so further trouble shooting could take place. The Interconnect cable between Junction box 18 and 19 was replaced and the system re-deployed. As the source was being deployed P-Cable Streamer 15 stopped communicating. All other data from the remaining 23 P-Cable Streamers was good, so the decision was made to resume production rather then recover the P-Cable system a third time.
The vessel resumed production on MGL15102668 at 20:30. Shortly in to the line there was issue communicating with P-Cable streamers 21-24. A full system reset resolved the problem and production continued throughout the rest of the day.

Daily Comment Summaries - Plan for Tomorrow

Mon 08 Jun

The Vessel should remain in production throughout the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Mon 8. Jun 00:00	Mon 8. Jun 03:30	3.500
MGL15101900R - Reshoot for Lost Navigation Header on Seq #2				
Prime Line Change	AC_PLC	Mon 8. Jun 03:30	Mon 8. Jun 04:31	1.017
Nominal Prime line change.				
Production Prime	AC_PP	Mon 8. Jun 04:31	Mon 8. Jun 08:09	3.633
Early EOL due to Loss of Data from Streamers 19-24.				
Streamers	DT_ST	Mon 8. Jun 08:09	Mon 8. Jun 09:17	1.133
Downtime due to streamers - Maneuvering to Begin Recovery of P-Cables - Recovering Source and PAM during this time.				
Streamers	DT_ST	Mon 8. Jun 09:17	Mon 8. Jun 10:51	1.567

Category	Code	Start	End	Duration
Downtime due to streamers - Recovering P-Cable to troubleshoot telemetry issues with Streamers 19-24.				
Streamers	DT_ST	Mon 8. Jun 10:51	Mon 8. Jun 12:57	2.100
Downtime due to streamers - Re-Deploying replaced Junction box at Streamer 19 - All P-Cable streamers online.				
Streamers	DT_ST	Mon 8. Jun 12:57	Mon 8. Jun 13:15	0.300
Downtime due to streamers - Aborted Deployment of PAM and Source due to P-Cable Failure at Streamer 19 again.				
Streamers	DT_ST	Mon 8. Jun 13:15	Mon 8. Jun 13:48	0.550
Downtime due to streamers - Maneuvering again to recover P-Cable.				
Streamers	DT_ST	Mon 8. Jun 13:48	Mon 8. Jun 14:42	0.900
Downtime due to streamers - Recovering P-Cable to Junction Box 18 to re-place interconnect cable between box 18 and box 19.				
Streamers	DT_ST	Mon 8. Jun 14:42	Mon 8. Jun 17:01	2.317
Downtime due to streamers - Re-Placing interconnect cable between Junction Box 18 and 19 an re-deploying P-Cable				
Streamers	DT_ST	Mon 8. Jun 17:01	Mon 8. Jun 20:30	3.483
Downtime due to streamers - P-Cable Deployed Maneuvering to Line MGL15102668				
Production Prime	AC_PP	Mon 8. Jun 20:30	Mon 8. Jun 24:00	3.500
MGL15102668 - During the line P-Cable Streamer 21-24 dropped out from Shot Points 1548 - 1812. System restarted got them to come back. - P-Cable Streamer 15 is not communicating with the system for the entire line.				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Mon 8 Jun	Marcus G Langseth	14 - 16	75.24
Total Production:			**75.24**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	49.08	49.08	550.53	550.53
Infill	0.00	0.00	14.03	14.03
Prime, Reshoot	26.16	26.16	54.24	54.24
Combined	**75.24**	**75.24**	**618.79**	**618.79**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.850**	**12.064**
Cetacean	0.833	0.316
Reconfiguration	20.283	7.683
Cable Reconfig	20.283	7.683
Transit	10.733	4.066
Mobilisation	**84.833**	**32.134**
Mob Ashore	84.833	32.134
DownTime	**45.650**	**17.292**
Nav Systems In-Sea	12.817	4.855
Prime Extended L/C	0.533	0.202
Source	11.150	4.223
Streamers	21.150	8.011
Acquisition	**101.667**	**38.510**
Prime Line Change	12.967	4.912
Production Prime	88.700	33.598

Category	Hours	% Percent
Total	264.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 08 Jun

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
Multiple issues with the P-Cable System throughout the day. Had two failures at Junction Box 19, during the day and once that was re-paired and the system re-deployed Streamer 15 Stopped communicating. Also has a drop out of data from streamer 21-24 while on line but a full system reset fixed that issue.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Mon 08 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
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Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander

Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
14	MGL15101924R	124.4	2957	865	Prime, Reshoot	26.16	4.227	Complete	Complete
15	MGL15102692	304.4	866	2773	Prime	23.85	4.220	Complete	Complete
NTBP: 2774 - 3194									
16	MGL15102668	304.4	876	3131	Prime	25.23	4.485	Part	Midnight
NTBP: 1575 - 1812									
Total						**75.24**			

Survey Progress (NJ3D)

Percentage of Prime Charged

15%

Prime Lines Completed

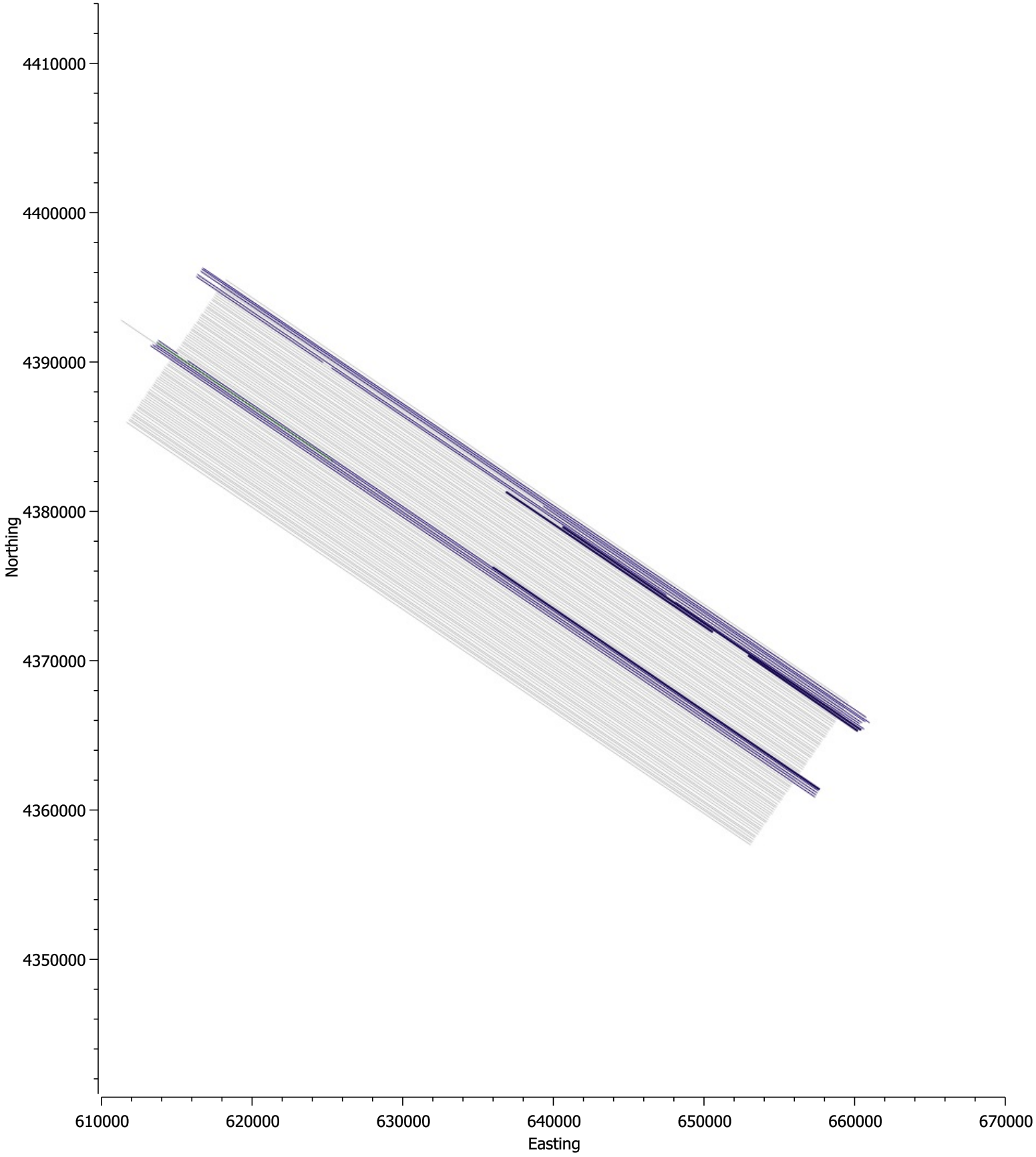
14%

Preplot Lines	Complete	Incomplete	Pending
79	11	2	0

Percentages Charged	
Prime	14.93% of 3949.01 km (Full fold)
Infill	2.38% of Charged Prime km (Sail Line)
	0.35% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	88.40 km
Average Charged Daily Prime and Infill Production	86.25 km

NJ3D: Accpt (5/29/2015 - 6/8/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Tue 09 Jun

The Vessel was in production in one form or another throughout the day. The Majority of the day was in normal production however at ~19:25 UTC while trying to trouble shoot some P-Cable internal triggering issues during the line change between line MGL15102644 and MGL15101780 the SPSU (Streamer Power Supply Unit) was switched for the spare. When the system was brought back on-line all the internal configuration of the Digitizers had been re-set. It took about 5 hours to re-program all 23 digitizers while the vessel continued down line MGL15101780 collecting 2D Data.

Data was acquired on line MGL1510 - 2668, 1804, 2644, and 1780 during the day.

Daily Comment Summaries - Plan for Tomorrow

Tue 09 Jun

The vessel will start the day continuing to re-program all 23 digitizers while the vessel continued down line MGL15101780 collecting 2D Data. Once repaired the vessel will return to normal production throughout the rest of the Day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Tue 9. Jun 00:00	Tue 9. Jun 03:01	3.017
MGL15102668				
Prime Line Change	AC_PLC	Tue 9. Jun 03:01	Tue 9. Jun 04:17	1.267
Nominal Prime line change.				
Production Prime	AC_PP	Tue 9. Jun 04:17	Tue 9. Jun 10:40	6.383
MGL15101804				
Prime Line Change	AC_PLC	Tue 9. Jun 10:40	Tue 9. Jun 11:48	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Tue 9. Jun 11:48	Tue 9. Jun 18:12	6.400

Category	Code	Start	End	Duration
MGL15102644				
Prime Line Change	AC_PLC	Tue 9. Jun 18:12	Tue 9. Jun 19:25	1.217
Nominal Prime line change.				
Prime Extended L/C	DT_PXL	Tue 9. Jun 19:25	Tue 9. Jun 20:17	0.867
Downtime due to extended Prime line change. Trouble shooting P-Cable system communication issues				
Production Prime	AC_PP	Tue 9. Jun 20:17	Tue 9. Jun 24:00	3.717
MGL15101780 - 2D line only from SOL to Mdnight shot point due to P-Cable Communication issue				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Tue 9 Jun	Marcus G Langseth	16 - 18	130.25
Total Production:			**130.25**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	130.25	179.33	680.77	680.77
Infill	0.00	0.00	14.03	14.03
Prime, Reshoot	0.00	26.16	54.24	54.24
Combined	**130.25**	**205.49**	**749.04**	**749.04**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**31.850**	**11.059**
Cetacean	0.833	0.289
Reconfiguration	20.283	7.043
Cable Reconfig	20.283	7.043
Transit	10.733	3.727
Mobilisation	**84.833**	**29.456**
Mob Ashore	84.833	29.456
DownTime	**46.517**	**16.152**
Nav Systems In-Sea	12.817	4.450
Prime Extended L/C	1.400	0.486
Source	11.150	3.872
Streamers	21.150	7.344
Acquisition	**124.800**	**43.333**
Prime Line Change	16.583	5.758
Production Prime	108.217	37.575
Total	288.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 09 Jun

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
Multiple issues with the P-Cable System throughout the day. Streamer 15 is still not communicating. While trying to trouble shoot some internal triggering issues during the line change between line MGL15102644 and MGL15101780 the SPSU (Streamer Power Supply Unit) was switched for the spare. When the system was brought back on-line all the internal configuration of the Digitizers had been re-set. It took about 5 hours to re-program all 23 digitizers while the vessel continued down line MGL15101780 collecting 2D Data.

The P-Cables Internal Triggering issue appears to be in the signal cable. When the vessel is going below 4.4 kts Speed through water the errors seem to lessen. The next time the whole array is recovered the
Signal Cable and Streamer 15's Digitizer will be replaced.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Tue 09 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
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Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
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Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
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O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

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Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander

Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
16	MGL15102668	304.4	3132	5137	Prime	25.08	4.508	Complete	Complete
17	MGL15101804	124.4	5029	865	Prime	52.06	4.403	Complete	Complete
18	MGL15102644	304.4	889	5137	Prime	53.11	4.480	Complete	Complete
19	MGL15101780	124.4	N/A	N/A	Prime	0.00	N/A	Part	Midnight
NTBP: 4526 - 2004									
Total						**130.25**			

Survey Progress (NJ3D)

Percentage of Prime Charged

18%

Prime Lines Completed

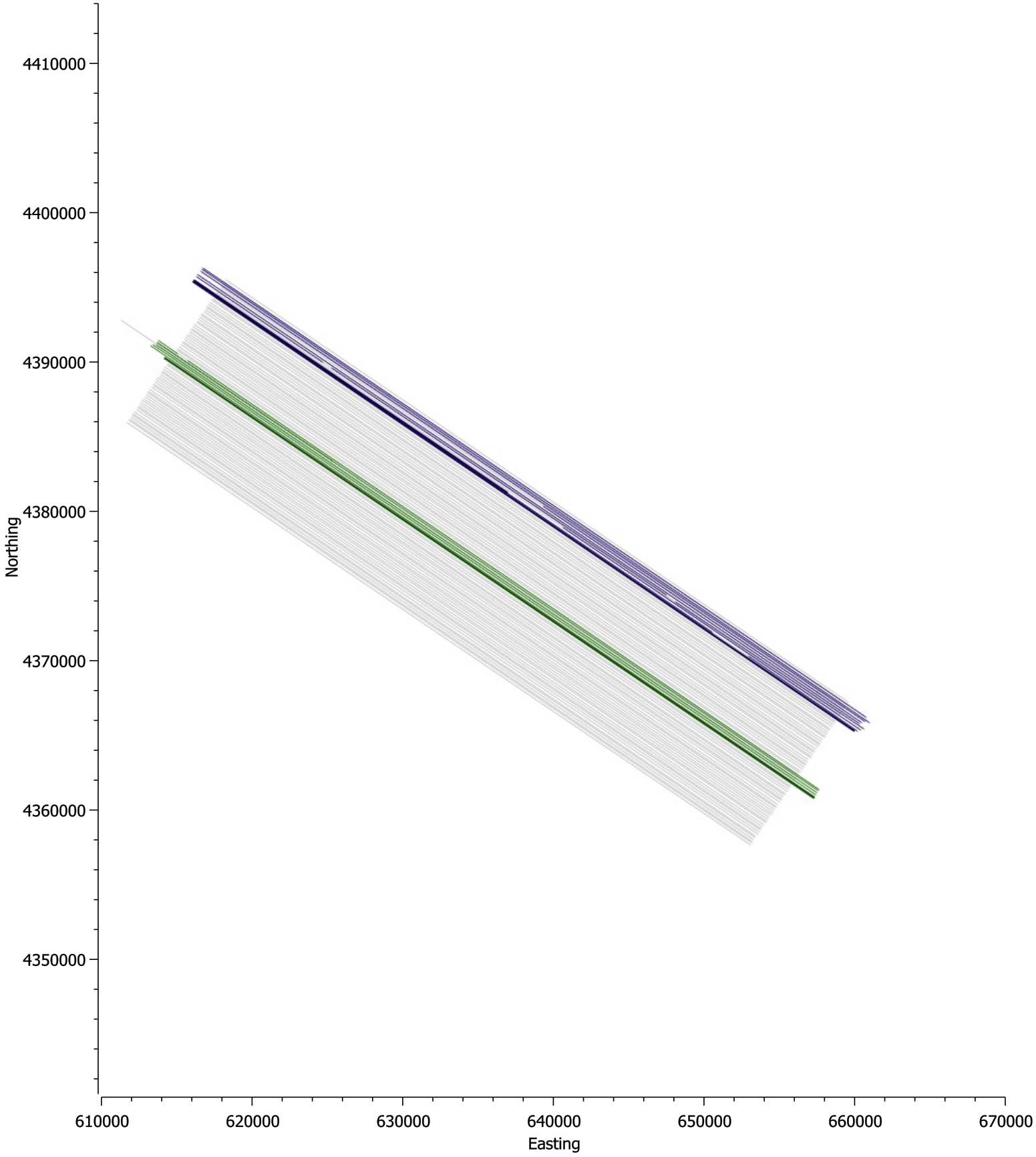
18%

Preplot Lines	Complete	Incomplete	Pending
79	14	2	0

Percentages Charged	
Prime	18.23% of 3949.01 km (Full fold)
Infill	1.95% of Charged Prime km (Sail Line)
	0.35% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	93.63 km
Average Charged Daily Prime and Infill Production	91.75 km

NJ3D: Accpt (5/29/2015 - 6/9/2015)



Daily Science Report

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Wed 10 Jun

The Vessel was in production in one form or another throughout the day. The Majority of the day was in normal production, however at start of the day was still re-programming P-Cable digitizers while the vessel continued down line MGL15101780 collecting 2D Data. At 01:08 UTC all the P-Cable Equipment (Except Streamer 15) was operational an Normal production continued. During Line MGL15102620 - Streamer 21 Dropped out at ~shot point 4180 and remained that way through the end of line. During the line change Streamer 21 was brought back on-line - re programed an normal production continued.

Data was acquired on line MGL1510 - 1780, 2620, 1780R, 2596 and 1756,. during the day.

Daily Comment Summaries - Plan for Tomorrow

Wed 10 Jun

The Vessel will start the day in production. However due to a intermittent drop out issue with p-Cable Streamer 21 the array will be recovered at the end of Line MGL15101756 to make repairs to that as well as trouble shooting P-Cable Streamer #15. Once the repairs are made all towed equipment will be re-deployed and the vessel will return to production.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 10. Jun 00:00	Wed 10. Jun 01:34	1.567
MGL15101790 - First Good Shoot Point of line was 1248 due to P-Cable Configuration issues.				
Prime Line Change	AC_PLC	Wed 10. Jun 01:34	Wed 10. Jun 02:48	1.233
Nominal Prime line change.				
Production Prime	AC_PP	Wed 10. Jun 02:48	Wed 10. Jun 09:24	6.600
MGL15102620 - P-Cable Streamer15 Dead and Streamer 21 Failed from SP 4180 to EOL.				
Prime Line Change	AC_PLC	Wed 10. Jun 09:24	Wed 10. Jun 10:30	1.100
Nominal Prime line change.				

Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 10. Jun 10:30	Wed 10. Jun 11:23	0.883
MGL15101780R - Prime Shot Points				
Production Prime	AC_PP	Wed 10. Jun 11:23	Wed 10. Jun 14:25	3.033
MGL15101780R -Reshoot Shoot Points due to P-Cable Configuration issues.				
Cetacean	SB_CT	Wed 10. Jun 14:25	Wed 10. Jun 14:31	0.100
Chargeable standby due to close proximity of Cetaceans.				
Production Prime	AC_PP	Wed 10. Jun 14:31	Wed 10. Jun 16:37	2.100
MGL15101780R -Reshoot Shoot Points due to P-Cable Configuration issues.				
Production Infill	AC_PI	Wed 10. Jun 16:37	Wed 10. Jun 17:04	0.450
MGL15101780R - Infill Shotpoints				
Production Prime	AC_PP	Wed 10. Jun 17:04	Wed 10. Jun 17:13	0.150
MGL15101780R Prime Shot Points.				
Prime Line Change	AC_PLC	Wed 10. Jun 17:13	Wed 10. Jun 18:21	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Wed 10. Jun 18:21	Wed 10. Jun 19:47	1.433
MGL15102596 P-Cable Streamer15 Dead				
Cetacean	SB_CT	Wed 10. Jun 19:47	Wed 10. Jun 19:53	0.100
Chargeable standby due to close proximity of Cetaceans.				
Production Prime	AC_PP	Wed 10. Jun 19:53	Wed 10. Jun 24:00	4.117
MGL15102596 P-Cable Streamer15 Dead				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Wed 10 Jun	Marcus G Langseth	19 - 22	153.73
Total Production:			**153.73**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	109.09	288.41	789.86	789.86
Infill	3.61	3.61	17.64	17.64
Prime, Reshoot	41.03	67.19	95.26	95.26
Combined	**153.73**	**359.21**	**902.76**	**902.76**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**32.050**	**10.272**
Cetacean	1.033	0.331
Reconfiguration	20.283	6.501
Cable Reconfig	20.283	6.501
Transit	10.733	3.440
Mobilisation	**84.833**	**27.190**
Mob Ashore	84.833	27.190
DownTime	**46.517**	**14.909**
Nav Systems In-Sea	12.817	4.108
Prime Extended L/C	1.400	0.449
Source	11.150	3.574

Category	Hours	% Percent
Streamers	21.150	6.779
Acquisition	**148.600**	**47.628**
Prime Line Change	20.050	6.426
Production Infill	0.450	0.144
Production Prime	128.100	41.058
Total	312.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 10 Jun

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
The P-Cables Internal Triggering issue still appears to be in the signal cable. The Signal Cable was deployed out 7m an triggering Error went away. P-Cable Streamer 15 Digitizer not responding and Streamer 21 had intermittent drop outs.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 10 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI

Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
19	MGL15101780	124.4	1248	960	Prime	3.61	4.498	Complete	Complete
NTBP: 2003 - 1249									
20	MGL15102620	304.4	878	5137	Prime	53.25	4.355	Complete	Complete
21	MG11501780R	124.4	5110	4530	Prime	7.26	4.432	Complete	Complete
NTBP: 2612 - 2614									
21	MG11501780R	124.4	4529	1249	Prime, Reshoot	41.03	4.335	Complete	Complete
NTBP: 2612 - 2614									
21	MG11501780R	124.4	1248	960	Infill	3.61	4.486	Complete	Complete
NTBP: 2612 - 2614									
21	MGL15101780R	124.4	959	865	Prime	1.19	4.758	Complete	Complete
NTBP: 2612 - 2614									
22	MGL15102596	304.4	879	4438	Prime	43.78	4.227	Part	Midnight
NTBP: 1765 - 1822									
Total						**153.73**			

Survey Progress (NJ3D)

Percentage of Prime Charged

22%

Prime Lines Completed

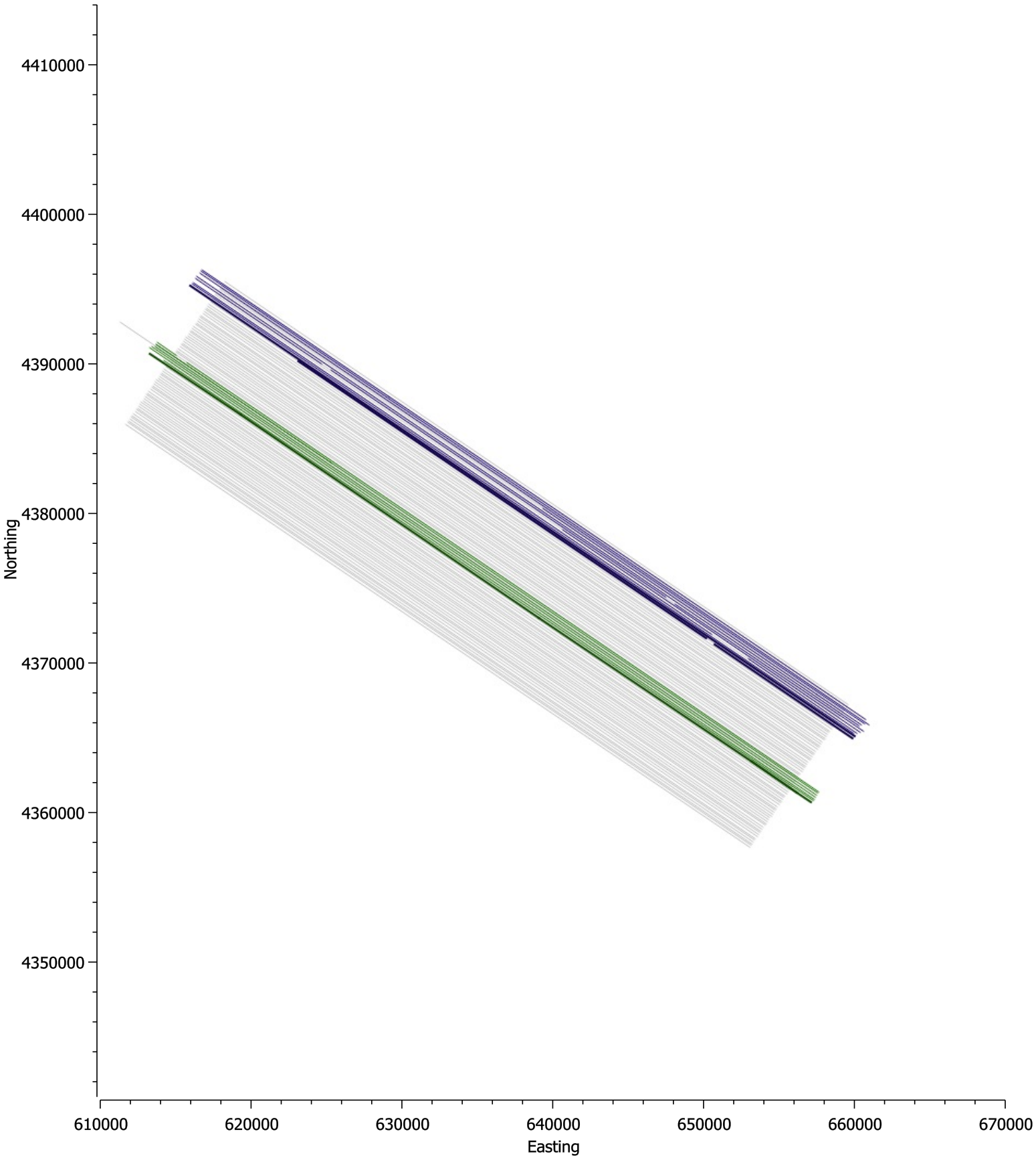
22%

Preplot Lines	Complete	Incomplete	Pending
79	17	1	0

Percentages Charged	
Prime	21.94% of 3949.01 km (Full fold)
Infill	2.04% of Charged Prime km (Sail Line)
	0.45% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	100.31 km
Average Charged Daily Prime and Infill Production	98.24 km

NJ3D: Accpt (5/29/2015 - 6/10/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D

General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Thu 11 Jun

The Vessel started the day in production on Line MGL15102596, This line was completed an a line change to MGL15101756 was completed. During LIne MGL15101756 P-Cable Streamer 21 became intermittent. The line was completed with this streamer disabled. At the end of the line the P-Cable Equipment was recovered to make repairs to Streamer 15, 21, and 24. The P-Cable equipment was re-deployed and production resumed on Line MGL15102668R, which had re-shoot, Infill, and Prime on multiple lines. At the end of the day the vessel was in production on MGL15101732.

Daily Comment Summaries - Plan for Tomorrow

Thu 11 Jun

The Vessel should be in production throughout the day. There will be an extended line change to make repairs to Sub-Array on at the end of line MGL15101732.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Thu 11. Jun 00:00	Thu 11. Jun 01:06	1.100
MGL15102596 P-Cable Streamer15 Dead				
Prime Line Change	AC_PLC	Thu 11. Jun 01:06	Thu 11. Jun 02:12	1.100
Nominal Prime line change.				
Production Prime	AC_PP	Thu 11. Jun 02:12	Thu 11. Jun 09:01	6.817
MGL15101756 P-Cable Streamer15 Dead - Streamer 21 intermittent and multiple re-starts of P-Cable System				
Prime Line Change	AC_PLC	Thu 11. Jun 09:01	Thu 11. Jun 10:10	1.150
Nominal Prime line change.				
Streamers	DT_ST	Thu 11. Jun 10:10	Thu 11. Jun 14:21	4.183

Category	Code	Start	End	Duration
Downtime due to streamers - Line Change extended while making repairs to P-Cable Streamer 15, 21, and 24.				
Production Prime	AC_PP	Thu 11. Jun 14:21	Thu 11. Jun 20:14	5.883
MGL15102668R - Picking up Infill, Reshoot, and Prime on multiple lines.				
Prime Line Change	AC_PLC	Thu 11. Jun 20:14	Thu 11. Jun 21:30	1.267
Nominal Prime line change.				
Production Prime	AC_PP	Thu 11. Jun 21:30	Thu 11. Jun 24:00	2.500
MGL15101732 - Prime				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Thu 11 Jun	Marcus G Langseth	22 - 25	125.51
Total Production:			**125.51**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	102.90	391.31	892.76	892.76
Infill	13.96	17.58	31.60	31.60
Prime, Reshoot	8.65	75.84	103.91	103.91
Combined	**125.51**	**484.73**	**1028.28**	**1028.28**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**32.050**	**9.539**
Cetacean	1.033	0.308
Reconfiguration	20.283	6.037
Cable Reconfig	20.283	6.037
Transit	10.733	3.194
Mobilisation	**84.833**	**25.248**
Mob Ashore	84.833	25.248
DownTime	**50.700**	**15.089**
Nav Systems In-Sea	12.817	3.814
Prime Extended L/C	1.400	0.417
Source	11.150	3.318
Streamers	25.333	7.540
Acquisition	**168.417**	**50.124**
Prime Line Change	23.567	7.014
Production Infill	0.450	0.134
Production Prime	144.400	42.976
Total	336.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 11 Jun

Navigation:
No Major Issues to Report - Stbd Barovane GPS is having charging issues.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
P-Cable Streamer 21 failed during line MGL15101756. P-Cable was recovered to make repairs on Streamers 15, 21, and 24.

Towing and Handling (Source):
Element 6 on Sub-Array 1 failed. This will be recovered at the end of MGL15101732.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Thu 11 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
22	MGL15102596	304.4	4439	5137	Prime	8.74	4.228	Complete	Complete
23	MGL15101756	124.4	5124	865	Prime	49.74	4.033	Complete	Complete
NTBP: 4331 - 4250, NTBP: 3573 - 3502, NTBP: 3126 - 3072, NTBP: 2799 - 2728									
24	MGL15102668R	304.4	1503	1574	Infill	0.90	4.792	Complete	Complete
24	MGL15102668R	304.4	1575	1812	Prime, Reshoot	2.98	4.799	Complete	Complete
24	MGL15102668R	304.4	1813	2059	Infill	3.09	4.744	Complete	Complete
24	MGL15102668R	304.4	2060	2125	Prime, Reshoot	0.83	5.265	Complete	Complete
24	MGL15102668R	304.4	2126	2923	Infill	9.98	4.546	Complete	Complete
24	MGL15102668R	304.4	2924	3311	Prime, Reshoot	4.85	4.609	Complete	Complete
24	MGL15102668R	304.4	3312	5137	Prime	22.83	4.479	Complete	Complete
25	MGL15101732	124.4	5125	3398	Prime	21.60	4.663	Part	Midnight
Total						**125.51**			

Survey Progress (NJ3D)

Percentage of Prime Charged

25%

Prime Lines Completed

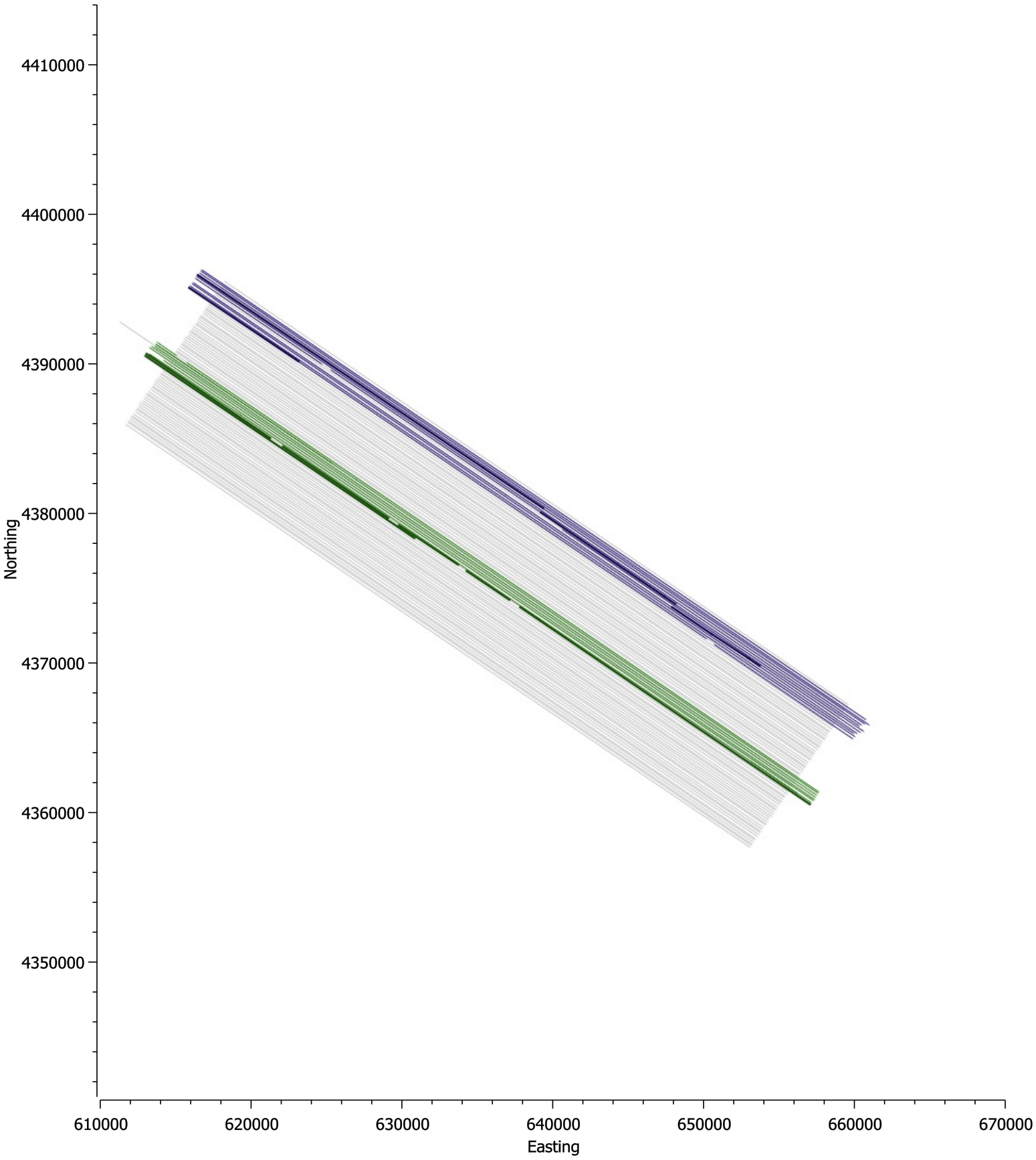
24%

Preplot Lines	Complete	Incomplete	Pending
79	19	0	0

Percentages Charged	
Prime	24.77% of 3949.01 km (Full fold)
Infill	3.23% of Charged Prime km (Sail Line)
	0.80% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	102.83 km
Average Charged Daily Prime and Infill Production	100.97 km

NJ3D: Accpt (5/29/2015 - 6/11/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D

General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Fri 12 Jun

The Vessel started the day in production on line MGL15101732. During this line the Stbd Barovane GPS stopped working. It is suspected that the Generator has failed. Line 1732 was ended at 03:45 UTC and a slightly extended line change took place to all for maintenance to be preformed on Sub-Array 1 Element 6. Line 2860R was started at 05:48 UTC. During this line STBD Seismic Air Compressor automatically shutdown and the Port Compressor was brought on-line. A shot time later the Port Compressor had to be taken off-line for a shot time to allow for the change out of a valve on the high pressure side. at 12:17 UTC Line 2860R was completed and a normal line change was undertaken. During this line change Sub-Array 1 was again recovered to work on Element 6. Line 1708 started at 13:42 UTC an during this line there was one power down for a PSO sighting. Line 1708 was completed at 20:18 an a normal line change was made to Line 2572 which started at 21:25. All systems seemed to be functioning normally however at ~23:22 UTC the P-Cable Recording System locked up. On Reboot it was found that the system had not been writing any SEG-D data from the start of line until it locked up. There was no indication that there was an issue an all log files look normal. For all future lines the Observer will physically check the directory to insure the files are being written.

Daily Comment Summaries - Plan for Tomorrow

Fri 12 Jun

The Vessel should be in production throughout the day Picking up some Reshoot and Infill before returning to Prime Lines later in the afternoon.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Fri 12. Jun 00:00	Fri 12. Jun 03:45	3.750
MGL15101732				
Prime Line Change	AC_PLC	Fri 12. Jun 03:45	Fri 12. Jun 04:54	1.150
Nominal Prime line change.				
Source	DT_SC	Fri 12. Jun 04:54	Fri 12. Jun 05:48	0.900
Downtime due to source. - Extended Line change for source Maintenance				

Category	Code	Start	End	Duration
Production Prime	AC_PP	Fri 12. Jun 05:48	Fri 12. Jun 06:21	0.550
MGL15102860R				
Vessel	DT_VE	Fri 12. Jun 06:21	Fri 12. Jun 06:25	0.067
Downtime due to vessel. - Stbd Compressor Failure				
Production Prime	AC_PP	Fri 12. Jun 06:25	Fri 12. Jun 08:05	1.667
MGL15102860R				
Vessel	DT_VE	Fri 12. Jun 08:05	Fri 12. Jun 08:16	0.183
Downtime due to vessel. - Shut down Seismic Air Compressor to complete valve change on Stbd Compressor				
Production Prime	AC_PP	Fri 12. Jun 08:16	Fri 12. Jun 12:17	4.017
MGL15102860R				
Prime Line Change	AC_PLC	Fri 12. Jun 12:17	Fri 12. Jun 13:26	1.150
Nominal Prime line change.				
Prime Extended L/C	AC_PXL	Fri 12. Jun 13:26	Fri 12. Jun 13:42	0.267
Extended Prime line change - due to line position				
Production Prime	AC_PP	Fri 12. Jun 13:42	Fri 12. Jun 17:57	4.250
MGL15101708				
Cetacean	SB_CT	Fri 12. Jun 17:57	Fri 12. Jun 18:03	0.100
Chargeable standby due to close proximity of Cetaceans.				
Production Prime	AC_PP	Fri 12. Jun 18:03	Fri 12. Jun 20:18	2.250
Prime Line Change	AC_PLC	Fri 12. Jun 20:18	Fri 12. Jun 21:25	1.117
Nominal Prime line change.				
Recording	DT_RC	Fri 12. Jun 21:25	Fri 12. Jun 22:21	0.933
Downtime due to recording systems. MGL15102572 - P-Cable system not writing data to Disk				
Cetacean	SB_CT	Fri 12. Jun 22:21	Fri 12. Jun 22:52	0.517
Chargeable standby due to close proximity of Cetaceans.				
Recording	DT_RC	Fri 12. Jun 22:52	Fri 12. Jun 24:00	1.133
Downtime due to recording systems. MGL15102572 - P-Cable system not writing data to Disk				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Fri 12 Jun	Marcus G Langseth	25 - 27	135.55
Total Production:			**135.55**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	84.41	475.73	977.18	977.18
Infill	0.00	17.58	31.60	31.60
Prime, Reshoot	51.14	126.97	155.05	155.05
Combined	**135.55**	**620.27**	**1163.83**	**1163.83**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Chargeable Standby	**1.650**	**0.458**
Cetacean	1.650	0.458
Mobilisation	**115.850**	**32.181**
Mob Ashore	84.833	23.565

Category	Hours	% Percent
Reconfiguration	13.300	3.694
Testing	6.983	1.940
Transit to Prospect	10.733	2.981
DownTime	**59.267**	**16.463**
Nav Systems In-Sea	12.817	3.560
Prime Extended L/C	1.400	0.389
Recording	6.917	1.921
Source	12.050	3.347
Streamers	25.833	7.176
Vessel	0.250	0.069
Acquisition	**183.233**	**50.898**
Prime Extended L/C	0.267	0.074
Prime Line Change	26.983	7.495
Production Infill	0.450	0.125
Production Prime	155.533	43.204
Total	360.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 12 Jun

Navigation:
No Major Issues to Report - Stbd Barovane GPS has now failed

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
During Line MGl15102572 - The P-Cable Recording system locked up at ~23:22 after sometime trying to get is re-booted it was found that it had not written any SEG-D data from SOL (21:25). It is still unknown at this time why it was not writing data nor why it was not flagging any errors. For all future lines the SEG-D folder will be double checked at SOL to insure it is indeed writing data.

Towing and Handling (Source):
Element 6 on Sub-Array 1 failed again and was recovered an repaired. Source is now fully operational

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Fri 12 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)

Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
25	MGL15101732	124.4	3397	865	Prime	31.66	4.600	Complete	Complete
26	MGL15102860R	304.4	854	5137	Prime, Reshoot	51.14	4.478	Complete	Complete
NTBP: 1222 - 1283, NTBP: 2404 - 2534									
27	MGL15101708	124.4	5147	865	Prime	52.75	4.365	Complete	Complete
NTBP: 2367 - 2305									
28	MGL15102572	304.4	N/A	N/A	Prime	0.00	N/A	Part	Midnight
Total						**135.55**			

Survey Progress (NJ3D)

Percentage of Prime Charged

28%

Prime Lines Completed

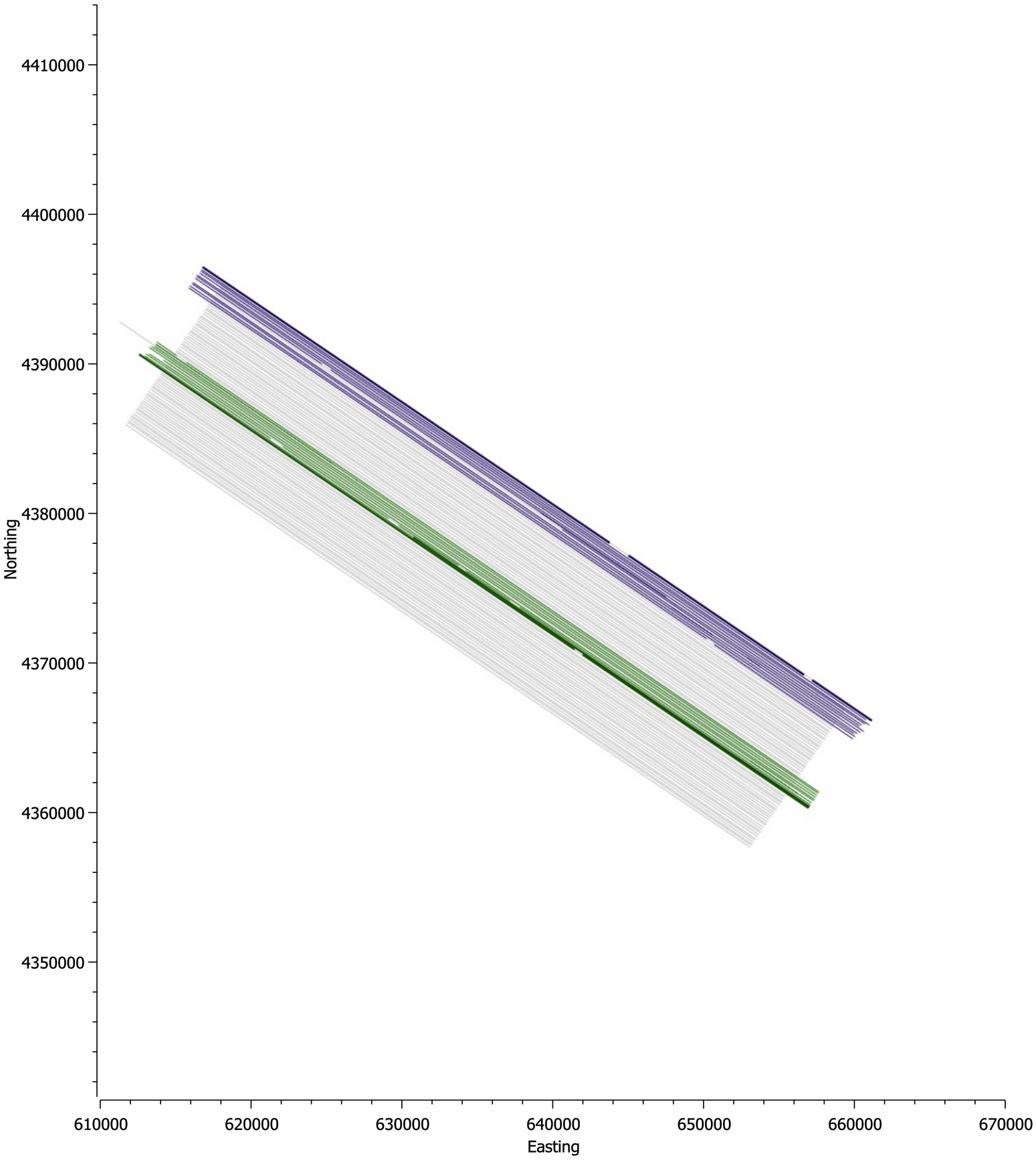
28%

Preplot Lines	Complete	Incomplete	Pending
79	22	0	0

Percentages Charged	
Prime	28.20% of 3949.01 km (Full fold)
Infill	2.84% of Charged Prime km (Sail Line)
	0.80% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	105.80 km
Average Charged Daily Prime and Infill Production	104.11 km

NJ3D: Accpt (5/29/2015 - 6/12/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D

General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sat 13 Jun

The Vessel started the day in production on line MGL15102572. At ~00:31 UTC the P_Cable system was re-booted and it started recording SEG-D. During the Day there was data acquired on Lines MGL1501 2572; 1851I; 2692R; and at the end of the day the vessel was in production on line MGL15101684. There where a couple of Power downs for PSO Sighting on Line MGL15102692R.

Daily Comment Summaries - Plan for Tomorrow

Sat 13 Jun

The Vessel should be in production throughout the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Recording	DT_RC	Sat 13. Jun 00:00	Sat 13. Jun 00:31	0.517
Downtime due to recording systems. MGL15102572 - P-Cable system not writing data to Disk				
Production Prime	AC_PP	Sat 13. Jun 00:31	Sat 13. Jun 03:47	3.267
MGL15102572				
Source	DT_SC	Sat 13. Jun 03:47	Sat 13. Jun 03:49	0.033
Downtime due to source controller. No triggers.				
Production Prime	AC_PP	Sat 13. Jun 03:49	Sat 13. Jun 04:08	0.317
MGL15102572				
Prime Line Change	AC_PLC	Sat 13. Jun 04:08	Sat 13. Jun 05:09	1.017
Nominal Prime line change.				
Production Infill	AC_PI	Sat 13. Jun 05:09	Sat 13. Jun 10:17	5.133
MGL15101852I Picking up Infill, Reshoot, and Prime on multiple lines.				

Category	Code	Start	End	Duration
Infill Line Change	AC_ILC	Sat 13. Jun 10:17	Sat 13. Jun 11:22	1.083
Nominal Infill line change.				
Production Prime	AC_PP	Sat 13. Jun 11:22	Sat 13. Jun 14:34	3.200
MGL15102692R - Picking up Infill, Reshoot, and Prime on multiple lines. - Powered Down for PSO Sighting				
Cetacean	DT_CT	Sat 13. Jun 14:34	Sat 13. Jun 15:08	0.567
Downtime due to close proximity of Cetaceans.				
Production Prime	AC_PP	Sat 13. Jun 15:08	Sat 13. Jun 15:49	0.683
MGL15102692R - Picking up Infill, Reshoot, and Prime on multiple lines				
Cetacean	DT_CT	Sat 13. Jun 15:49	Sat 13. Jun 16:23	0.567
Downtime due to close proximity of Cetaceans.				
Production Prime	AC_PP	Sat 13. Jun 16:23	Sat 13. Jun 16:35	0.200
MGL15102692R - Picking up Infill, Reshoot, and Prime on multiple lines				
Infill Line Change	AC_ILC	Sat 13. Jun 16:35	Sat 13. Jun 17:48	1.217
Nominal Infill line change.				
Production Prime	AC_PP	Sat 13. Jun 17:48	Sat 13. Jun 24:00	6.200
MGL15101684 - Prime				

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sat 13 Jun	Marcus G Langseth	28 - 31	150.62
Total Production:			**150.62**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	94.80	570.53	1071.98	1071.98
Infill	49.70	67.28	81.30	81.30
Prime, Reshoot	6.12	133.10	161.18	161.18
Combined	**150.62**	**770.90**	**1314.45**	**1314.45**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Acquisition	**205.550**	**53.529**
Infill Line Change	2.300	0.599
Prime Extended L/C	0.267	0.069
Prime Line Change	28.000	7.292
Production Infill	5.583	1.454
Production Prime	169.400	44.115
Mobilisation	**115.850**	**30.169**
Mob Ashore	84.833	22.092
Reconfiguration	13.300	3.464
Testing	6.983	1.819
Transit to Prospect	10.733	2.795
DownTime	**62.600**	**16.302**
Nav Systems In-Sea	12.817	3.338
Prime Extended L/C	1.400	0.365
Recording	7.433	1.936

Category	Hours	% Percent
Cetacean	2.783	0.725
Source	12.083	3.147
Streamers	25.833	6.727
Vessel	0.250	0.065
Total	384.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 13 Jun

Navigation:
No Major Issues to Report - Stbd Barovane GPS not operational

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
During Line MGl15102572 - The P-Cable Recording system locked up at on the previous ~23:22 after sometime trying to get is re-booted it was found that it had not written any SEG-D data from SOL (21:25) to 00:31 UTC had not be recorded. It is still unknown at this time why it was not writing data nor why it was not flagging any errors. For all future lines the SEG-D folder will be double checked at SOL to insure it is indeed writing data.

Towing and Handling (Source):
On line MGL15102572 - the source controller locked up and did not fire the source for ~20 shot. At the end of the line it was reset and seems to be functioning normally.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sat 13 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
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Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
28	MGL15102572	304.4	4920	5137	Prime	29.31	4.444	Complete	Complete
NTBP: 2512 - 2773, NTBP: 4901 - 4919									
29	MGL15101852I	124.4	5129	4995	Infill	1.69	4.174	Complete	Complete
29	MGL15101852I	124.4	4994	4926	Prime, Reshoot	0.86	4.590	Complete	Complete
29	MGL15101852I	124.4	4925	1947	Infill	37.24	4.202	Complete	Complete
30	MGL15102692R	304.4	1912	2773	Infill	10.78	4.054	Complete	Complete
NTBP: 3818 - 4184, NTBP: 4626 - 5003									
30	MGL15102692R	304.4	2774	3194	Prime, Reshoot	5.26	3.780	Complete	Complete
NTBP: 3818 - 4184, NTBP: 4626 - 5003									
30	MGL15102692R	304.4	3195	5137	Prime	14.98	4.344	Complete	Complete
NTBP: 3818 - 4184, NTBP: 4626 - 5003									
31	MGL15101684	124.4	5125	1085	Prime	50.51	4.398	Part	Midnight
Total						**150.62**			

Survey Progress (NJ3D)

Percentage of Prime Charged

31%

Prime Lines Completed

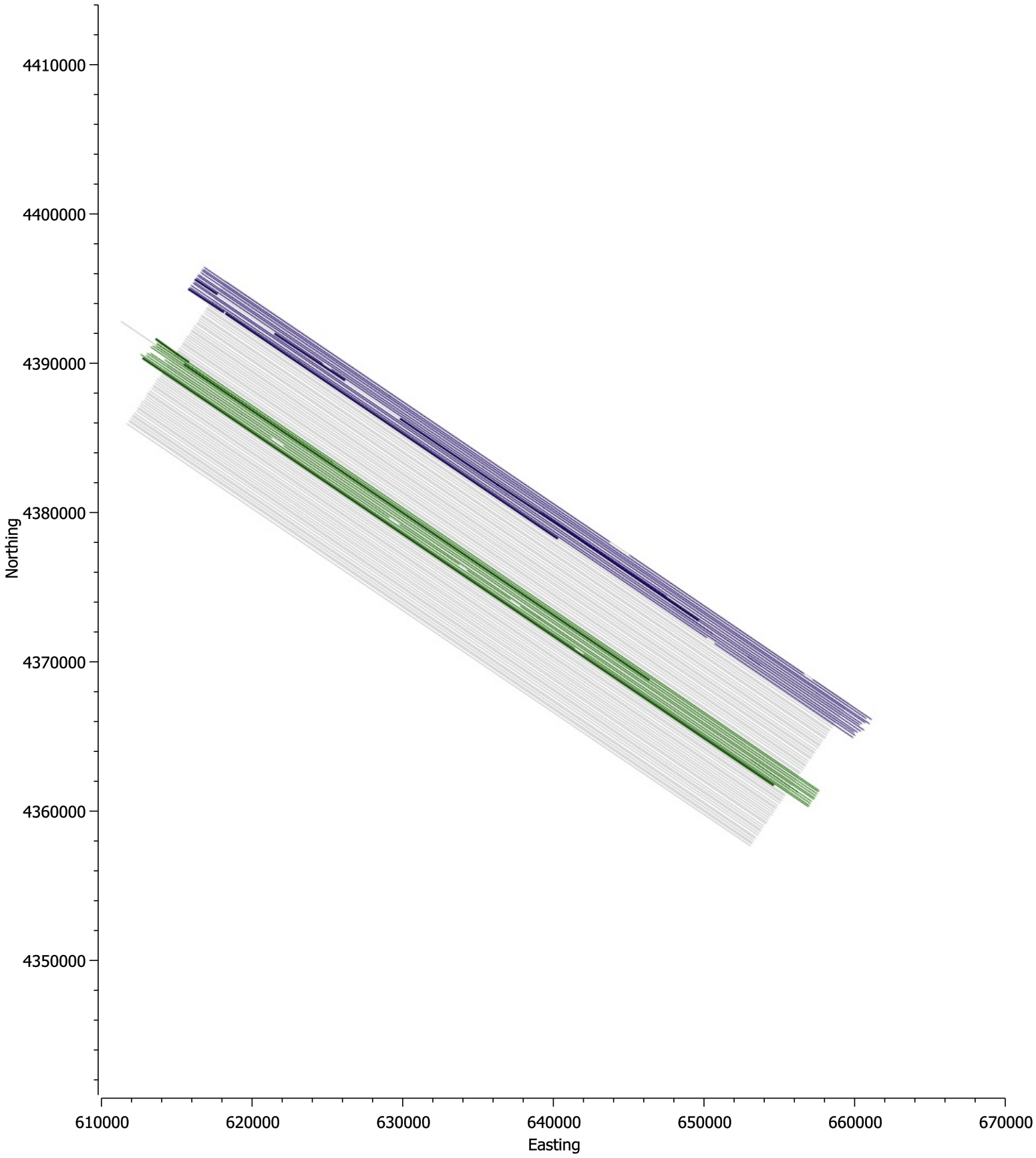
29%

Preplot Lines	Complete	Incomplete	Pending
79	23	1	0

Percentages Charged	
Prime	30.76% of 3949.01 km (Full fold)
Infill	6.69% of Charged Prime km (Sail Line)
	2.06% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	109.54 km
Average Charged Daily Prime and Infill Production	107.99 km

NJ3D: Accpt (5/29/2015 - 6/13/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sun 14 Jun

The Vessel started the day in production on line MGL15101684 and by the end of the day it had also acquired data on lines MGL15102548, MGL15101660, & MGL15102572R, There where a very large number of PSO Sightings throughout the day, which resulted in multiple shutdowns and power downs, which our outlined in the Timing Diary just below. There was also a couple of Lockups of the P-Cable Recording system and a failure of the PosNET Vessel GPS receiver. As a result the spares for both system where brought on-line and put into service.

Daily Comment Summaries - Plan for Tomorrow

Sun 14 Jun

The Vessel should be in production throughout the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Sun 14. Jun 00:00	Sun 14. Jun 00:19	0.317
MGL15101684				
Prime Line Change	AC_PLC	Sun 14. Jun 00:19	Sun 14. Jun 01:26	1.117
Nominal Prime line change.				
Production Prime	AC_PP	Sun 14. Jun 01:26	Sun 14. Jun 07:47	6.350
MGL15101684 Missed sps 3372, 3373, 3374 due to shot errors				
Prime Line Change	AC_PLC	Sun 14. Jun 07:47	Sun 14. Jun 08:54	1.117
Nominal Prime line change.				
Production Prime	AC_PP	Sun 14. Jun 08:54	Sun 14. Jun 10:27	1.550

Category	Code	Start	End	Duration
MGL15101660				
Cetacean	DT_CT	Sun 14. Jun 10:27	Sun 14. Jun 11:42	1.250
Downtime due to close proximity of Cetaceans. - Shutdown for PSO Sighting				
Production Prime	AC_PP	Sun 14. Jun 11:42	Sun 14. Jun 12:19	0.617
MGL15101660				
Recording	DT_RC	Sun 14. Jun 12:19	Sun 14. Jun 13:09	0.833
Downtime due to recording systems. -P-Cable Recording System Lockup				
Production Prime	AC_PP	Sun 14. Jun 13:09	Sun 14. Jun 13:37	0.467
MGL15101660				
Cetacean	DT_CT	Sun 14. Jun 13:37	Sun 14. Jun 13:45	0.133
Downtime due to close proximity of Cetaceans. – Power Down for PSO Sighting				
Production Prime	AC_PP	Sun 14. Jun 13:45	Sun 14. Jun 14:11	0.433
MGL15101660				
Cetacean	DT_CT	Sun 14. Jun 14:11	Sun 14. Jun 14:18	0.117
Downtime due to close proximity of Cetaceans. - Power Down for PSO Sighting				
Recording	DT_RC	Sun 14. Jun 14:18	Sun 14. Jun 14:41	0.383
Downtime due to recording systems. - P-Cable Recording System Lockup				
Cetacean	DT_CT	Sun 14. Jun 14:41	Sun 14. Jun 15:18	0.617
Downtime due to close proximity of Cetaceans. - Power Down for PSO Sighting				
Production Prime	AC_PP	Sun 14. Jun 15:18	Sun 14. Jun 16:27	1.150
Normal Line Change				
Prime Extended L/C	DT_PXL	Sun 14. Jun 16:27	Sun 14. Jun 16:45	0.300
Downtime due to extended Prime line change. - Vessel slowed to make repairs to POSNET Vessel GPS receiver and to switch over to Backup P-Cable Recording System.				
Production Prime	AC_PP	Sun 14. Jun 16:45	Sun 14. Jun 17:10	0.417
MGL15102572R - Reshoot - Prime - Infill.				
Cetacean	DT_CT	Sun 14. Jun 17:10	Sun 14. Jun 17:18	0.133
Downtime due to close proximity of Cetaceans. - Power down for PSO Sighting				
Production Prime	AC_PP	Sun 14. Jun 17:18	Sun 14. Jun 17:27	0.150
MGL15102572R - Reshoot - Prime - Infill.				
Cetacean	DT_CT	Sun 14. Jun 17:27	Sun 14. Jun 17:40	0.217
Downtime due to close proximity of Cetaceans. - Power down for PSO Sighting				
Production Prime	AC_PP	Sun 14. Jun 17:40	Sun 14. Jun 17:56	0.267
MGL15102572R - Reshoot - Prime - Infill.				
Cetacean	DT_CT	Sun 14. Jun 17:56	Sun 14. Jun 18:09	0.217
Downtime due to close proximity of Cetaceans. Power down for PSO Sighting				
Production Prime	AC_PP	Sun 14. Jun 18:09	Sun 14. Jun 18:59	0.833
MGL15102572R - Reshoot - Prime - Infill.				
Cetacean	DT_CT	Sun 14. Jun 18:59	Sun 14. Jun 19:11	0.200
Downtime due to close proximity of Cetaceans. - Power Down for PSO Sighting				
Production Prime	AC_PP	Sun 14. Jun 19:11	Sun 14. Jun 19:32	0.350
Cetacean	DT_CT	Sun 14. Jun 19:32	Sun 14. Jun 19:38	0.100
Downtime due to close proximity of Cetaceans. Power down for PSO Sighting				
Production Prime	AC_PP	Sun 14. Jun 19:38	Sun 14. Jun 22:52	3.233

Category	Code	Start	End	Duration
MGL15102572R - Reshoot - Prime - Infill.				
Prime Line Change	AC_PLC	Sun 14. Jun 22:52	Sun 14. Jun 24:00	1.133
Nominal Prime line change.				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

14-Jun	Hours	% Percent
Acquisition	**19.500**	**81.250**
Prime Line Change	3.367	14.028
Production Prime	16.133	67.222
DownTime	**4.500**	**18.750**
Cetacean	2.983	12.431
Prime Extended L/C	0.300	1.250
Recording	1.217	5.069
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
Acquisition	**225.050**	**55.159**
Infill Line Change	2.300	0.564
Prime Extended L/C	0.267	0.065
Prime Line Change	31.367	7.688
Production Infill	5.583	1.368
Production Prime	185.533	45.474
Mobilisation	**115.850**	**28.395**
Mob Ashore	84.833	20.792
Reconfiguration	13.300	3.260
Testing	6.983	1.712
Transit to Prospect	10.733	2.631
DownTime	**67.100**	**16.446**
Nav Systems In-Sea	12.817	3.141
Prime Extended L/C	1.700	0.417
Recording	8.650	2.120
Cetacean	5.767	1.413
Source	12.083	2.962
Streamers	25.833	6.332
Vessel	0.250	0.061
Total	408.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 14 Jun

Navigation:
During the line change between MGL15101660 and MGL15102572R PosNET Locked up and would not re-start. After some trouble shooting it was found that the PosNET Vessel GPS receiver had failed. The Spare was installed and the system came right back on-line. Minimal lose of tracking data for the source and tailbuoy at the start of Line MGL15102572R

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
Multiple lockups of the P-Cable Recording System. During the line change between MGL15101660 and MGL15102572R the Backup recording system was brought on line an put into service.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sun 14 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

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Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sun 14 Jun	Marcus G Langseth	31 - 34	125.74
Total Production:			**125.74**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	80.69	651.21	1152.66	1152.66
Infill	18.71	85.99	100.01	100.01
Prime, Reshoot	26.34	159.44	187.51	187.51
Combined	**125.74**	**896.64**	**1440.19**	**1440.19**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
31	MGL15101684	124.4	1084	875	Prime	2.62	4.402	Complete	Complete
32	MG15102548	304.4	885	5137	Prime	53.16	4.519	Complete	Complete
33	MGL15101660	124.4	5146	1690	Prime	24.90	4.385	Complete	Complete
NTBP: 4143 - 3350, NTBP: 2950 - 2379, NTBP: 2073 - 1975									
34	MGL15102572R	304.4	961	2774	Prime, Reshoot	16.23	4.691	Complete	Complete
NTBP: 1240 - 1329, NTBP: 1436 - 1580, NTBP: 1774 - 1917, NTBP: 2483 - 2619, NTBP: 2865 - 2921									
34	MGL15102572R	304.4	2775	3817	Infill	12.33	4.898	Complete	Complete
NTBP: 1240 - 1329, NTBP: 1436 - 1580, NTBP: 1774 - 1917, NTBP: 2483 - 2619, NTBP: 2865 - 2921									
34	MGL15102572R	304.4	3818	4184	Prime, Reshoot	4.59	4.632	Complete	Complete
NTBP: 1240 - 1329, NTBP: 1436 - 1580, NTBP: 1774 - 1917, NTBP: 2483 - 2619, NTBP: 2865 - 2921									
34	MGL15102572R	304.4	4185	4268	Infill	1.05	4.802	Complete	Complete
NTBP: 1240 - 1329, NTBP: 1436 - 1580, NTBP: 1774 - 1917, NTBP: 2483 - 2619, NTBP: 2865 - 2921									
34	MGL15102572R	304.4	4269	4332	Prime, Reshoot	0.80	4.252	Complete	Complete
NTBP: 1240 - 1329, NTBP: 1436 - 1580, NTBP: 1774 - 1917, NTBP: 2483 - 2619, NTBP: 2865 - 2921									
34	MGL15102572R	304.4	4333	4625	Infill	3.66	4.730	Complete	Complete
NTBP: 1240 - 1329, NTBP: 1436 - 1580, NTBP: 1774 - 1917, NTBP: 2483 - 2619, NTBP: 2865 - 2921									
34	MGL15102572R	304.4	4626	5003	Prime, Reshoot	4.73	4.490	Complete	Complete
NTBP: 1240 - 1329, NTBP: 1436 - 1580, NTBP: 1774 - 1917, NTBP: 2483 - 2619, NTBP: 2865 - 2921									
34	MGL15102572R	304.4	5004	5137	Infill	1.68	4.488	Complete	Complete
NTBP: 1240 - 1329, NTBP: 1436 - 1580, NTBP: 1774 - 1917, NTBP: 2483 - 2619, NTBP: 2865 - 2921									
Total						**125.74**			

Survey Progress (NJ3D)

Percentage of Prime Charged

33%

Prime Lines Completed

33%

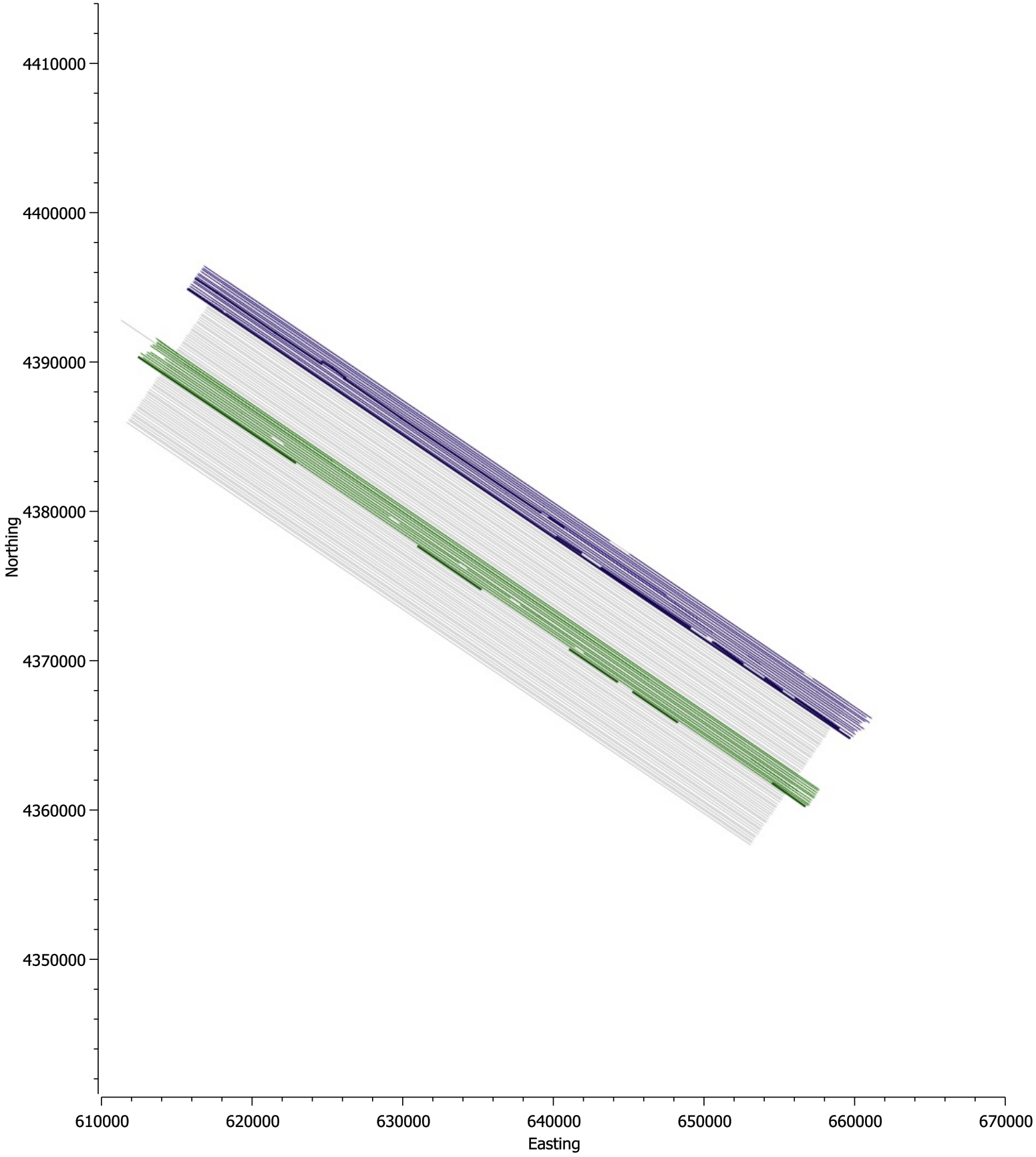
Preplot Lines	Complete	Incomplete	Pending
79	26	0	0

Percentages Charged	
Prime	33.35% of 3949.01 km (Full fold)
Infill	7.59% of Charged Prime km (Sail Line)

Percentages Charged	
	2.53% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	110.78 km
Average Charged Daily Prime and Infill Production	108.99 km

NJ3D: Accpt (5/29/2015 - 6/14/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Mon 15 Jun

The Vessel remained in Production throughout the Day. Data was acquired on lines MGL1510-1636, 2524, 1612, & 2500.

Daily Comment Summaries - Plan for Tomorrow

Mon 15 Jun

The Vessel should be in production throughout the day. During the first line change on the Southeast end of survey, the source will be recovered to preform maintenance on the Sub-Array an to add an extra 120 in3 Element in the number 8 position as a spare.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Prime Line Change	AC_PLC	Mon 15. Jun 00:00	Mon 15. Jun 00:08	0.133
Nominal Prime line change.				
Production Prime	AC_PP	Mon 15. Jun 00:08	Mon 15. Jun 06:25	6.283
MGL15102524				
Prime Line Change	AC_PLC	Mon 15. Jun 06:25	Mon 15. Jun 07:32	1.117
Nominal Prime line change.				
Production Prime	AC_PP	Mon 15. Jun 07:32	Mon 15. Jun 14:02	6.500
MGL15102524				
Prime Line Change	AC_PLC	Mon 15. Jun 14:02	Mon 15. Jun 15:10	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Mon 15. Jun 15:10	Mon 15. Jun 22:08	6.967
MGL15101612				
Prime Line Change	AC_PLC	Mon 15. Jun 22:08	Mon 15. Jun 23:16	1.133

Category	Code	Start	End	Duration
Nominal Prime line change.				
Production Prime	AC_PP	Mon 15. Jun 23:16	Mon 15. Jun 24:00	0.733
MGL15102500				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

15-Jun	Hours	% Percent
Acquisition	**24.000**	**100.000**
Prime Line Change	3.517	14.653
Production Prime	20.483	85.347
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**67.100**	**15.532**
Cetacean	5.767	1.335
Nav Systems In-Sea	12.817	2.967
Prime Extended L/C	1.700	0.394
Recording	8.650	2.002
Source	12.083	2.797
Streamers	25.833	5.980
Vessel	0.250	0.058
Acquisition	**249.050**	**57.650**
Infill Line Change	2.300	0.532
Prime Extended L/C	0.267	0.062
Prime Line Change	34.883	8.075
Production Infill	5.583	1.292
Production Prime	206.017	47.689
Mobilisation	**115.850**	**26.817**
Mob Ashore	84.833	19.637
Reconfiguration	13.300	3.079
Testing	6.983	1.617
Transit to Prospect	10.733	2.485
Total	432.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 15 Jun

Navigation:
Stbd Barovane GPS still down.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Mon 15 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Mon 15 Jun	Marcus G Langseth	35 - 38	166.43
Total Production:			**166.43**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	166.43	166.43	1319.09	1319.09
Infill	0.00	0.00	100.01	100.01
Prime, Reshoot	0.00	0.00	187.51	187.51
Combined	**166.43**	**166.43**	**1606.61**	**1606.61**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
35	MGL15101636	124.4	5130	865	Prime	53.33	4.581	Complete	Complete
36	MGL15102524	304.4	859	5137	Prime	53.49	4.442	Complete	Complete
37	MGL15101612	124.4	5143	865	Prime	53.49	4.145	Complete	Complete
38	MGL15102500	304.4	872	1361	Prime	6.12	4.501	Part	Midnight
Total						**166.43**			

Survey Progress (NJ3D)

Percentage of Prime Charged

38%

Prime Lines Completed

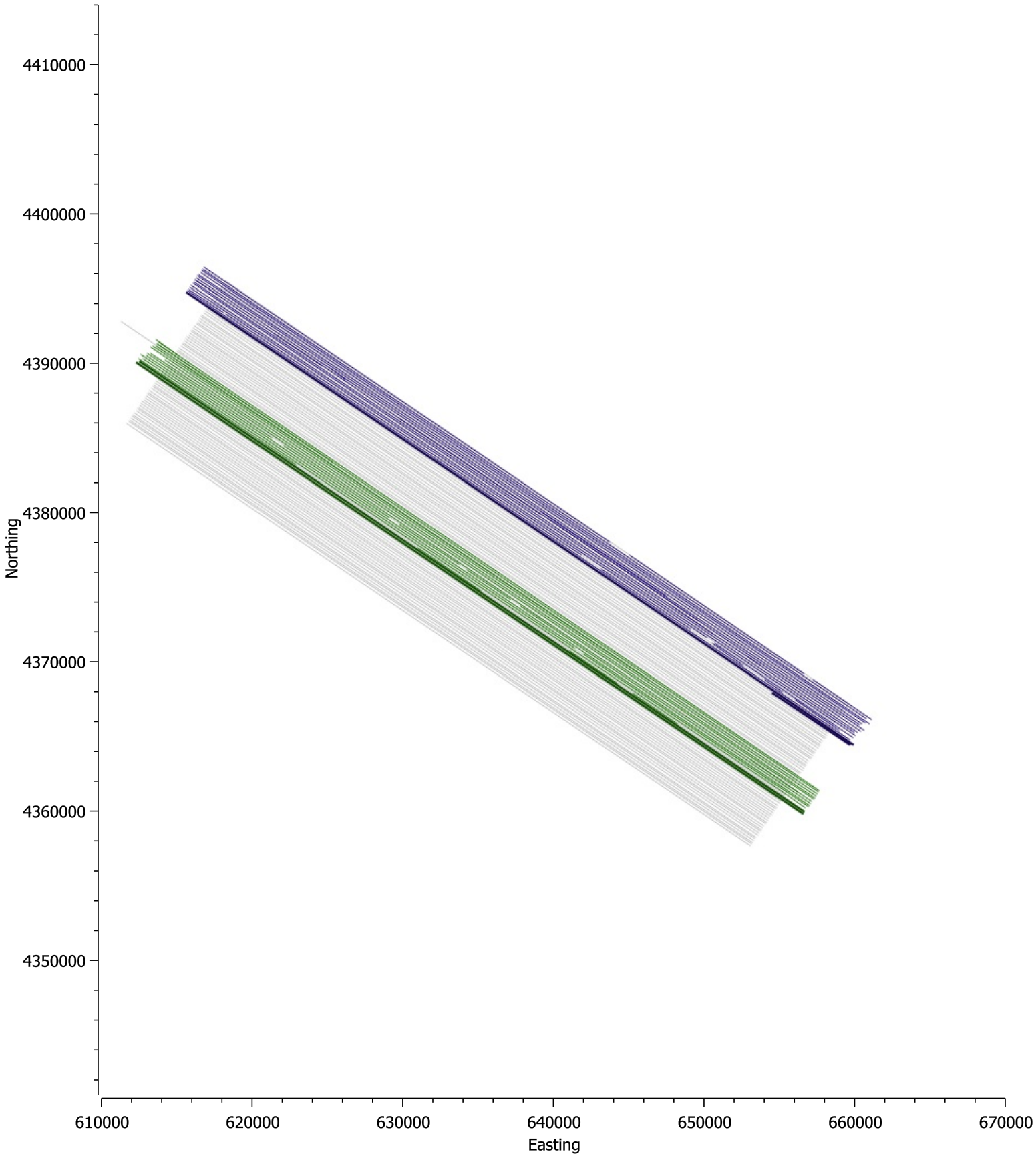
37%

Preplot Lines	Complete	Incomplete	Pending
79	29	0	0

Percentages Charged	
Prime	37.56% of 3949.01 km (Full fold)
Infill	6.74% of Charged Prime km (Sail Line)
	2.53% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	114.76 km
Average Charged Daily Prime and Infill Production	113.09 km

NJ3D: Accpt (5/29/2015 - 6/15/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

16 Jun 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Tue 16 Jun

The Vessel remained in Production throughout the Day. Data was acquired on lines MGL1510-2500, 1588, 2476, & 1564. During Line 2500 the 120in3 element stopped working. The Mitigation element was deployed off the stern and the sub-array was recovered for repairs while the vessel continued down line. Once repairs where completed the sub-array was re-deployed and production continued. During the line change between Line 1588 and 2476. The Sub-Array was recovered and a extra 120in3 element was installed at element position #8 as a spare for element #7. There was a few power downs of the source during the day for PSO Sightings.

Daily Comment Summaries - Plan for Tomorrow

Tue 16 Jun

The Vessel should be in production throughout the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Tue 16. Jun 00:00	Tue 16. Jun 02:33	2.550
MGL15102500				
Source	DT_SC	Tue 16. Jun 02:33	Tue 16. Jun 04:02	1.483
Downtime due to source. Delta errors on Gun 1-7 Picking up gunstring 1 for repairs.				
Production Prime	AC_PP	Tue 16. Jun 04:02	Tue 16. Jun 06:25	2.383
MGL15102500 Full volume again.				
Prime Line Change	AC_PLC	Tue 16. Jun 06:25	Tue 16. Jun 07:33	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Tue 16. Jun 07:33	Tue 16. Jun 13:49	6.267
MGL15101588				

Category	Code	Start	End	Duration
Cetacean	DT_CT	Tue 16. Jun 13:49	Tue 16. Jun 13:55	0.100
Downtime due to close proximity of Cetaceans. Powerdown for Turtle.				
Production Prime	AC_PP	Tue 16. Jun 13:55	Tue 16. Jun 14:08	0.217
MGL15101588				
Prime Line Change	AC_PLC	Tue 16. Jun 14:08	Tue 16. Jun 15:23	1.250
Nominal Prime line change. Picked up guns.				
Source	DT_SC	Tue 16. Jun 15:23	Tue 16. Jun 15:57	0.567
Extended line change to add spare 120 ci gun on Gunstring 1				
Production Prime	AC_PP	Tue 16. Jun 15:57	Tue 16. Jun 17:42	1.750
MGL15102476				
Cetacean	DT_CT	Tue 16. Jun 17:42	Tue 16. Jun 17:48	0.100
Downtime due to close proximity of Cetaceans. Powerdown for turtle.				
Production Prime	AC_PP	Tue 16. Jun 17:48	Tue 16. Jun 22:13	4.417
MGL151012476				
Prime Line Change	AC_PLC	Tue 16. Jun 22:13	Tue 16. Jun 23:23	1.167
Nominal Prime line change.				
Production Prime	AC_PP	Tue 16. Jun 23:23	Tue 16. Jun 24:00	0.617
MGL15101564				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

16-Jun	Hours	% Percent
Acquisition	**21.750**	**90.625**
Prime Line Change	3.550	14.792
Production Prime	18.200	75.833
DownTime	**2.250**	**9.375**
Cetacean	0.200	0.833
Source	2.050	8.542
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**69.350**	**15.208**
Cetacean	5.967	1.308
Nav Systems In-Sea	12.817	2.811
Prime Extended L/C	1.700	0.373
Recording	8.650	1.897
Source	14.133	3.099
Streamers	25.833	5.665
Vessel	0.250	0.055
Acquisition	**270.800**	**59.386**
Infill Line Change	2.300	0.504
Prime Extended L/C	0.267	0.058
Prime Line Change	38.433	8.428
Production Infill	5.583	1.224
Production Prime	224.217	49.170
Mobilisation	**115.850**	**25.406**

Category	Hours	% Percent
Mob Ashore	84.833	18.604
Reconfiguration	13.300	2.917
Testing	6.983	1.531
Transit to Prospect	10.733	2.354
Total	456.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 16 Jun

Navigation:
Stbd Barovane GPS still down.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
Downtime for failure of Element #7 on sub-array 1. The Sub-Array was recovered for repairs and re-deployed with no further incident.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Tue 16 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
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Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

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Dubuque Amanda Ella Contract RPS Lead PSO
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Schmitt Amy Katherine Contract RPS PSO

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Baldwin Kimberly Watchstander

Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Tue 16 Jun	Marcus G Langseth	38 - 41	148.88
Total Production:			**148.88**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	148.88	315.30	1467.96	1467.96
Infill	0.00	0.00	100.01	100.01
Prime, Reshoot	0.00	0.00	187.51	187.51
Combined	**148.88**	**315.30**	**1755.49**	**1755.49**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
38	MGL15102500	304.4	1362	5137	Prime	38.54	4.026	Complete	Complete
NTBP: 3008 - 3700									
39	MGL15101588	124.4	5148	865	Prime	52.73	4.511	Complete	Complete
NTBP: 1080 - 1015									
40	MGL15102476	304.4	858	5137	Prime	52.60	4.546	Complete	Complete
NTBP: 2003 - 2074									
41	MGL15101564	124.4	5102	4702	Prime	5.01	4.378	Part	Midnight
Total						**148.88**			

Survey Progress (NJ3D)

Percentage of Prime Charged

41%

Prime Lines Completed

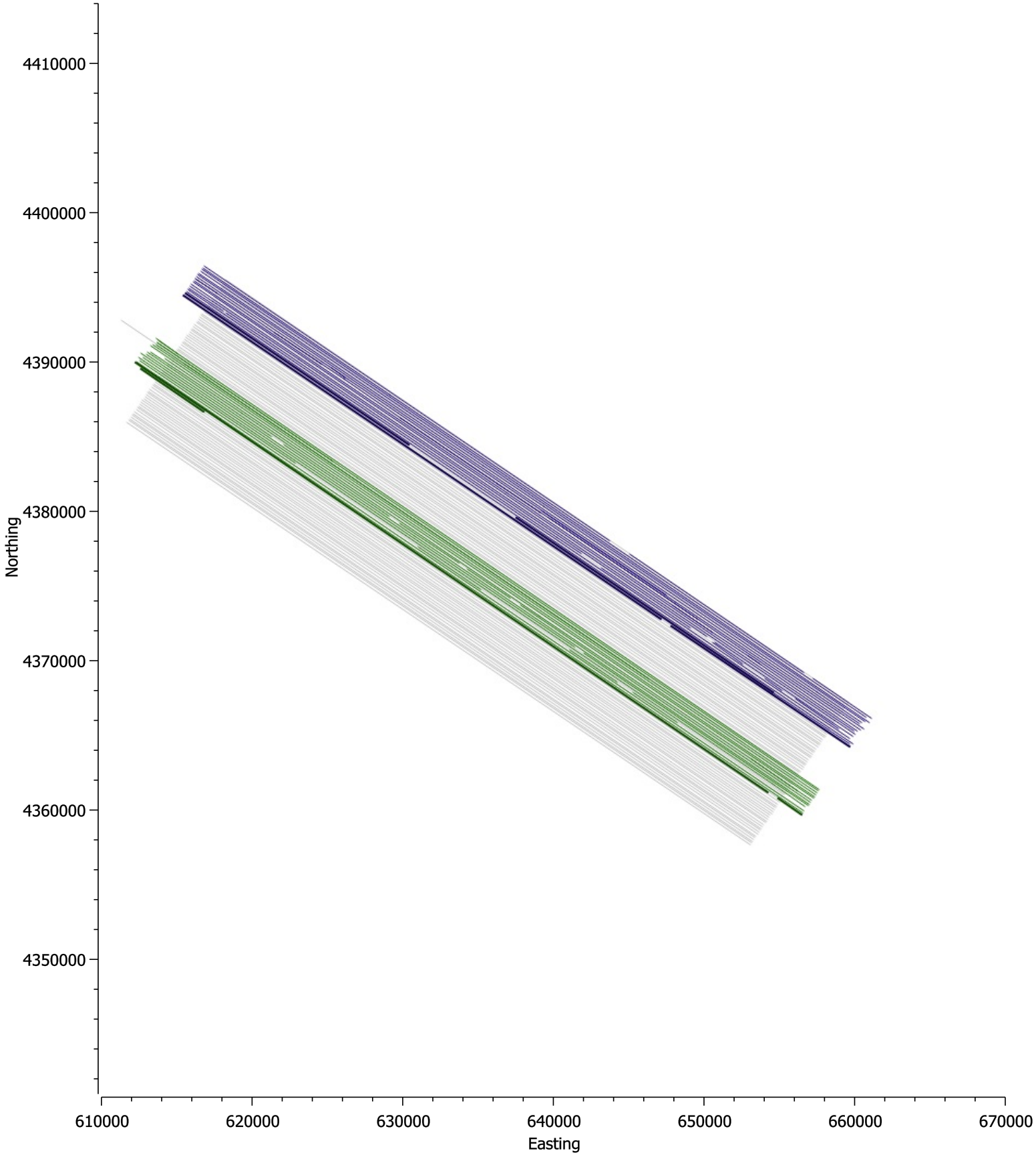
41%

Preplot Lines	Complete	Incomplete	Pending
79	32	1	0

Percentages Charged	
Prime	41.48% of 3935.19 km (Full fold)
Infill	6.13% of Charged Prime km (Sail Line)
	2.53% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	117.03 km
Average Charged Daily Prime and Infill Production	115.48 km

NJ3D: Accpt (5/29/2015 - 6/16/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

17 Jun 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Wed 17 Jun

The Vessel remained in Production throughout the Day. Data was acquired on lines MGL1510-1564, 2452, 1540, & 2428. During Line MGL15101540 - S1E6 started double popping at Shotpoint 1290 and continued to EOL. It was not was no identified in the record until SP 2413 of the Next line MGL15102428 at which time it was turned off and the spare 180in3 Element was enabled.

Daily Comment Summaries - Plan for Tomorrow

Wed 17 Jun

The Vessel should be in production throughout the day. There is a planned small boat transfer of personnel and supplies at ~15:00 UTC (11:00 EST). Coming onboard are Parts for the Compressor, P-Cable, and NCS navigation equipment arriving tomorrow. Departing the Vessel are P-Cable parts for repair and Data Shipment #1 (Seq 1-37). Personnel departing will be Co-Pi's Jamie Austin and Craig Fulthorpe.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 17. Jun 00:00	Wed 17. Jun 05:32	5.533
MGL15101564				
Prime Line Change	AC_PLC	Wed 17. Jun 05:32	Wed 17. Jun 06:40	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Wed 17. Jun 06:40	Wed 17. Jun 13:01	6.350
MGL15102452				
Prime Line Change	AC_PLC	Wed 17. Jun 13:01	Wed 17. Jun 14:09	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Wed 17. Jun 14:09	Wed 17. Jun 20:31	6.367

Category	Code	Start	End	Duration
MGL15101540				
Prime Line Change	AC_PLC	Wed 17. Jun 20:31	Wed 17. Jun 21:41	1.167
Nominal Prime line change.				
Production Prime	AC_PP	Wed 17. Jun 21:41	Wed 17. Jun 24:00	2.317
MGL15102428 First good shotpoint of Line is 2413 due to S1E6 double popping.				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

17-Jun	Hours	% Percent
Acquisition	**24.000**	**100.000**
Prime Line Change	3.433	14.306
Production Prime	20.567	85.694
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**69.350**	**14.448**
Cetacean	5.967	1.243
Nav Systems In-Sea	12.817	2.670
Prime Extended L/C	1.700	0.354
Recording	8.650	1.802
Source	14.133	2.944
Streamers	25.833	5.382
Vessel	0.250	0.052
Acquisition	**294.800**	**61.417**
Infill Line Change	2.300	0.479
Prime Extended L/C	0.267	0.056
Prime Line Change	41.867	8.722
Production Infill	5.583	1.163
Production Prime	244.783	50.997
Mobilisation	**115.850**	**24.135**
Mob Ashore	84.833	17.674
Reconfiguration	13.300	2.771
Testing	6.983	1.455
Transit to Prospect	10.733	2.236
Total	480.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 17 Jun

Navigation:
Stbd Barovane GPS still down.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
During Line MGL15101540 - S1E6 started double popping at Shotpoint 1290 and continued to EOL. It was not was no identified in the record until SP 2413 of the Next line MGL15102428 at which time it was turned off and the spare 180in3 Element was enabled.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 17 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Fulthorpe Craig Co-PI
Nedimovic Mladen CO-PI
Austin James Co-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Wed 17 Jun	Marcus G Langseth	41 - 44	150.22
Total Production:			**150.22**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	150.22	465.53	1618.19	1618.19
Infill	0.00	0.00	100.01	100.01
Prime, Reshoot	0.00	0.00	187.51	187.51
Combined	**150.22**	**465.53**	**1905.71**	**1905.71**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
41	MGL15101564	124.4	4701	865	Prime	47.96	4.650	Complete	Complete
42	MGL15102452	304.4	865	5137	Prime	53.41	4.541	Complete	Complete
43	MGL15101540	124.4	5140	1291	Prime	48.12	4.584	Complete	Complete
NTBP: 1290 - 865									
44	MGL15102428	304.4	2413	2470	Prime	0.73	4.617	Part	Midnight
NTBP: 863 - 2412									
Total						**150.22**			

Survey Progress (NJ3D)

Percentage of Prime Charged

45%

Prime Lines Completed

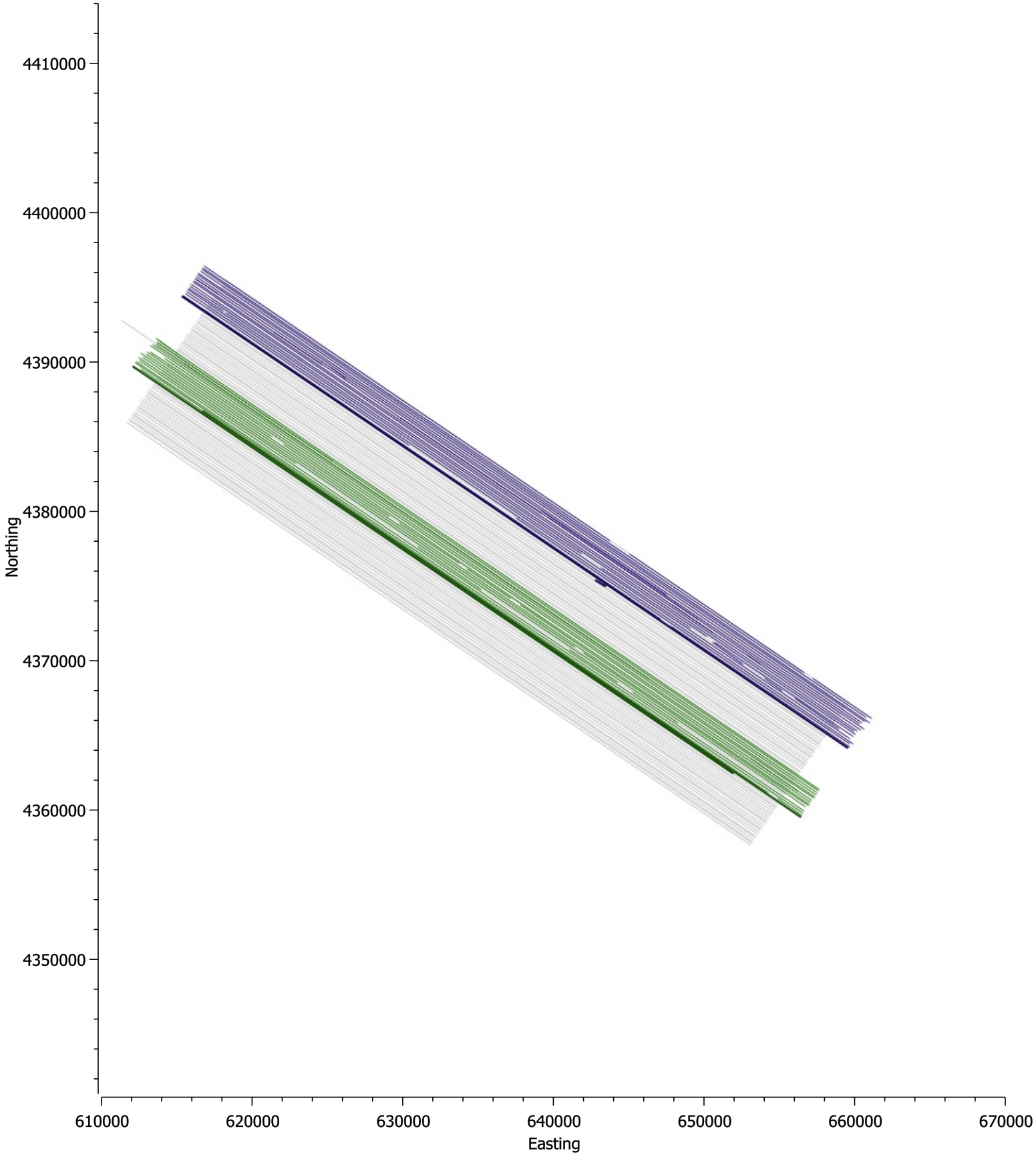
44%

Preplot Lines	Complete	Incomplete	Pending
79	35	1	0

Percentages Charged	
Prime	45.29% of 3935.19 km (Full fold)
Infill	5.61% of Charged Prime km (Sail Line)
	2.53% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	119.11 km
Average Charged Daily Prime and Infill Production	117.65 km

NJ3D: Accpt (5/29/2015 - 6/17/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Thu 18 Jun

The Vessel remained in Production throughout the Day. Data was acquired on lines MGL1510-2428, 1516, 2404, & 1756l. During Line MGL15101756l the P-Cable System tripped power when streamer section #4 parted. The bale on the digitizer failed and this section, digitizer and compass were lost at sea. We recovered the cross cable and P-cables, replaced the lost section and re-deployed. Repairs continued into the new day.

Daily Comment Summaries - Plan for Tomorrow

Thu 18 Jun

The Vessel will start day continuing the maintenance on the P-Cable system and once repairs where completed production will resume. The vessel should be in production throughout the rest of the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Thu 18. Jun 00:00	Thu 18. Jun 04:06	4.100
MGL15102428				
Prime Line Change	AC_PLC	Thu 18. Jun 04:06	Thu 18. Jun 05:15	1.150
Nominal Prime line change.				
Prime Extended L/C	AC_PXL	Thu 18. Jun 05:15	Thu 18. Jun 05:24	0.150
Production Prime	AC_PP	Thu 18. Jun 05:24	Thu 18. Jun 12:10	6.767
MGL15101516				
Prime Line Change	AC_PLC	Thu 18. Jun 12:10	Thu 18. Jun 13:16	1.100
Nominal Prime line change.				
Production Prime	AC_PP	Thu 18. Jun 13:16	Thu 18. Jun 20:09	6.883
MGL15102404				

Category	Code	Start	End	Duration
Prime Line Change	AC_PLC	Thu 18. Jun 20:09	Thu 18. Jun 21:18	1.150
Nominal Prime line change.				
Prime Extended L/C	AC_PXL	Thu 18. Jun 21:18	Thu 18. Jun 22:01	0.717
Extended Prime line change.				
Production Infill	AC_PI	Thu 18. Jun 22:01	Thu 18. Jun 22:03	0.033
MGL15101756I				
Streamers	DT_ST	Thu 18. Jun 22:03	Thu 18. Jun 24:00	1.950
P-Cable Failure. Section #4 parted and was lost at sea. Picking up for repairs.				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

18-Jun	Hours	% Percent
Acquisition	**22.050**	**91.875**
Prime Extended L/C	0.867	3.611
Prime Line Change	3.400	14.167
Production Infill	0.033	0.139
Production Prime	17.750	73.958
DownTime	**1.950**	**8.125**
Streamers	1.950	8.125
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**71.300**	**14.147**
Cetacean	5.967	1.184
Nav Systems In-Sea	12.817	2.543
Prime Extended L/C	1.700	0.337
Recording	8.650	1.716
Source	14.133	2.804
Streamers	27.783	5.513
Vessel	0.250	0.050
Acquisition	**316.850**	**62.867**
Infill Line Change	2.300	0.456
Prime Extended L/C	1.133	0.225
Prime Line Change	45.267	8.981
Production Infill	5.617	1.114
Production Prime	262.533	52.090
Mobilisation	**115.850**	**22.986**
Mob Ashore	84.833	16.832
Reconfiguration	13.300	2.639
Testing	6.983	1.386
Transit to Prospect	10.733	2.130
Total	504.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 18 Jun

Navigation:
Stbd Barovane GPS still down.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
P-Cable System tripped power during Seq 47 when streamer section #4 parted. The bale on the digitizer failed and this section, digitizer and compass were lost at sea. We recovered the cross cable and P-cables, replaced the lost section and re-deployed.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Thu 18 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Thu 18 Jun	Marcus G Langseth	44 - 47	143.29
Total Production:			**143.29**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	141.72	607.24	1759.90	1759.90
Infill	1.56	1.56	101.58	101.58
Prime, Reshoot	0.00	0.00	187.51	187.51
Combined	**143.29**	**608.80**	**2048.99**	**2048.99**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
44	MGL15102428	304.4	2470	5137	Prime	33.35	4.395	Complete	Complete
45	MGL15101516	124.4	5147	865	Prime	53.54	4.271	Complete	Complete
46	MGL15102404	304.4	858	5137	Prime	53.50	4.196	Complete	Complete
47	MGL15101756I	124.4	5136	5030	Prime	1.34	4.293	Complete	Complete
NTBP: 4904 - 4830									
47	MGL15101756I	124.4	5029	4905	Infill	1.56	4.565	Complete	Complete
NTBP: 4904 - 4830									
Total						**143.29**			

Survey Progress (NJ3D)

Percentage of Prime Charged

49%

Prime Lines Completed

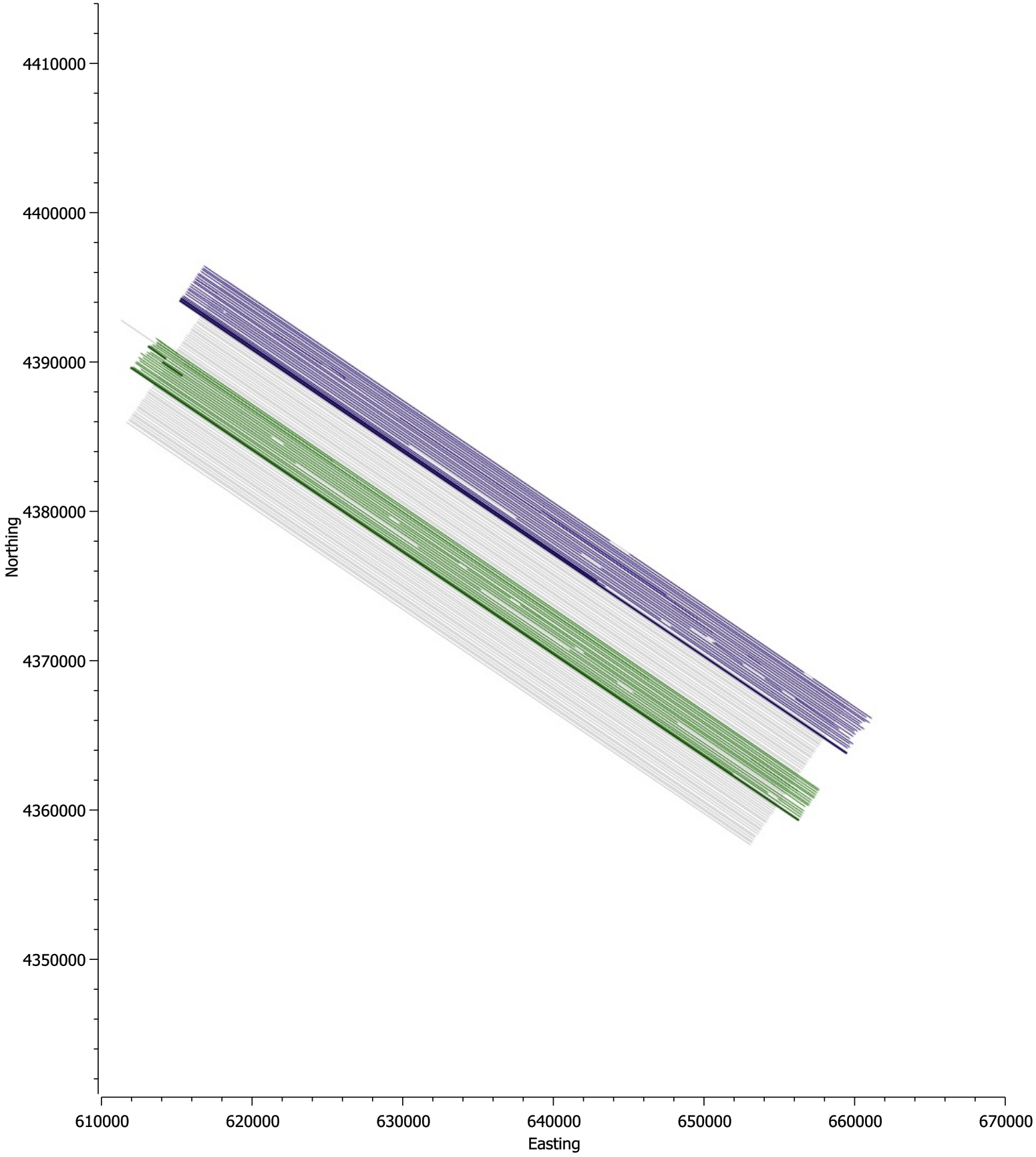
48%

Preplot Lines	Complete	Incomplete	Pending
79	38	0	0

Percentages Charged	
Prime	48.89% of 3935.19 km (Full fold)
Infill	5.28% of Charged Prime km (Sail Line)
	2.57% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	120.53 km
Average Charged Daily Prime and Infill Production	119.16 km

NJ3D: Accpt (5/29/2015 - 6/18/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	70 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Fri 19 Jun

The Vessel remained in Production throughout most of the Day. Data was acquired on lines MGL1510-1756J, 2572S, 1900I, & 2380. During Line MGL15102380 (Seq 51) the P-Cable System tripped power because the interconnect cable between streamers #5 and #6 failed. The interconnect cable was replaced and this fixed the power problem. We were back into production after making these repairs and some maintenance to the gear. See equipment status report for details.

Daily Comment Summaries - Plan for Tomorrow

Fri 19 Jun

The Vessel will start day continuing the maintenance on the P-Cable system and once repairs where completed production will resume. The vessel should be in production throughout the rest of the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Streamers	DT_ST	Fri 19. Jun 00:00	Fri 19. Jun 04:06	4.100
Downtime due to streamers - P-Cable System repair - Streamer # 4 lost at sea				
Production Infill	AC_PI	Fri 19. Jun 04:06	Fri 19. Jun 05:15	1.150
MGL15101756J				
Infill Line Change	AC_ILC	Fri 19. Jun 05:15	Fri 19. Jun 06:24	1.150
Nominal Infill line change.				
Production Prime	AC_PP	Fri 19. Jun 06:24	Fri 19. Jun 10:45	4.350
MGL15102572S				
Infill Line Change	AC_ILC	Fri 19. Jun 10:45	Fri 19. Jun 12:51	2.100

Category	Code	Start	End	Duration
Nominal Infill line change.				
Production Infill	AC_PI	Fri 19. Jun 12:51	Fri 19. Jun 13:32	0.683
MGL151019001				
Cetacean	DT_CT	Fri 19. Jun 13:32	Fri 19. Jun 13:37	0.083
Downtime due to close proximity of Cetaceans. -Power Down for PSO Sighting				
Production Prime	AC_PP	Fri 19. Jun 13:37	Fri 19. Jun 16:48	3.183
MGL151019001				
Cetacean	DT_CT	Fri 19. Jun 16:48	Fri 19. Jun 16:54	0.100
Downtime due to close proximity of Cetaceans. -Power Down for PSO Sighting				
Production Infill	AC_PI	Fri 19. Jun 16:54	Fri 19. Jun 17:19	0.417
MGL151019001				
Prime Line Change	AC_PLC	Fri 19. Jun 17:19	Fri 19. Jun 18:22	1.050
Nominal Prime line change.				
Production Prime	AC_PP	Fri 19. Jun 18:22	Fri 19. Jun 19:12	0.833
MGL15102380				
Cetacean	DT_CT	Fri 19. Jun 19:12	Fri 19. Jun 19:20	0.133
Downtime due to close proximity of Cetaceans. -Power Down for PSO Sighting				
Production Prime	AC_PP	Fri 19. Jun 19:20	Fri 19. Jun 22:19	2.983
MGL15102380 -Early EOL due P-Cable system failure of interconnect cable between J-Boxes 5 and 6.				
Streamers	DT_ST	Fri 19. Jun 22:19	Fri 19. Jun 24:00	1.683
Downtime due to streamers - P-Cable System repair of the failure of interconnect cable between J-Boxes 5 and 6.				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

19-Jun	Hours	% Percent
Acquisition	**17.900**	**74.583**
Infill Line Change	3.250	13.542
Prime Line Change	1.050	4.375
Production Infill	2.250	9.375
Production Prime	11.350	47.292
DownTime	**6.100**	**25.417**
Cetacean	0.317	1.319
Streamers	5.783	24.097
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**77.400**	**14.659**
Cetacean	6.283	1.190
Nav Systems In-Sea	12.817	2.427
Prime Extended L/C	1.700	0.322
Recording	8.650	1.638
Source	14.133	2.677
Streamers	33.567	6.357
Vessel	0.250	0.047
Acquisition	**334.750**	**63.400**
Infill Line Change	5.550	1.051

Category	Hours	% Percent
Prime Extended L/C	1.133	0.215
Prime Line Change	46.317	8.772
Production Infill	7.867	1.490
Production Prime	273.883	51.872
Mobilisation	**115.850**	**21.941**
Mob Ashore	84.833	16.067
Reconfiguration	13.300	2.519
Testing	6.983	1.323
Transit to Prospect	10.733	2.033
Total	528.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 19 Jun

Navigation:
Stbd Barovane GPS still down.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
P-Cable System tripped power during Seq 51 when the interconnect cable between streamers #5 and #6 failed. The interconnect cable was replaced and this fixed the power problem. It appears that there is some insulation degradation of the wires inside the interconnect cables, perhaps due to the oil added inside the cables for lubrication. We are also seeing some hardware failures in the J-Box assemblies due to loose and missing bolts. The J-Box at streamer 16 had broken free from the cross cable, but had not failed electrically. We changed out this J-Box because of the sheared hardware. There were a number of loose junction boxes in the water due to the fasteners backing out. We are fabricating some hardware to replace our lack of spares as a stop gap measure. Streamer section #16 had evidence of shark bite damage at the tail of the section, possibly causing additional damage to the hardware that holds the J-Box secure.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Fri 19 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Fri 19 Jun	Marcus G Langseth	48 - 51	111.54
Total Production:			**111.54**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	30.24	637.48	1790.14	1790.14
Infill	44.66	46.22	146.24	146.24
Infill, Progressive	9.88	9.88	9.88	9.88
Prime, Reshoot	26.76	26.76	214.28	214.28
Combined	**111.54**	**720.34**	**2160.52**	**2160.52**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
48	MGL15101756J	124.4	1654	865	Infill	9.88	4.631	Complete	Complete
49	MGL15102572S	304.4	860	874	Prime	0.19	2.835	Complete	Complete
49	MGL15102572S	304.4	875	960	Prime, Reshoot	1.07	4.303	Complete	Complete
49	MGL15102572S	304.4	961	1239	Infill	3.49	4.021	Complete	Complete

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
49	MGL15102572S	304.4	1240	1329	Prime, Reshoot	1.12	4.505	Complete	Complete
49	MGL15102572S	304.4	1330	1435	Infill	1.33	3.866	Complete	Complete
49	MGL15102572S	304.4	1436	1580	Prime, Reshoot	1.81	4.860	Complete	Complete
49	MGL15102572S	304.4	1581	1774	Infill	2.43	4.114	Complete	Complete
49	MGL15102572S	304.4	1775	1917	Prime, Reshoot	1.79	4.792	Complete	Complete
49	MGL15102572S	304.4	1918	2482	Infill	7.06	4.392	Complete	Complete
49	MGL15102572S	304.4	2483	2617	Prime, Reshoot	1.69	4.522	Complete	Complete
49	MGL15102572S	304.4	2618	3007	Infill	4.88	4.633	Complete	Complete
49	MGL15102572S	304.4	3008	3700	Prime, Reshoot	8.66	4.750	Complete	Complete
49	MGL15102572S	304.4	3701	3702	Infill	0.03	N/A	Complete	Complete
50	MGL15101900I	124.4	3886	2074	Infill	21.91	4.419	Complete	Complete
NTBP: 3446 - 3387, NTBP: 1230 - 1155									
50	MGL15101900I	124.4	2073	1975	Prime, Reshoot	1.24	5.670	Complete	Complete
NTBP: 3446 - 3387, NTBP: 1230 - 1155									
50	MGL15101900I	124.4	1974	1691	Infill	3.55	4.775	Complete	Complete
NTBP: 3446 - 3387, NTBP: 1230 - 1155									
50	MGL15101900I	124.4	1690	865	Prime, Reshoot	9.38	4.724	Complete	Complete
NTBP: 3446 - 3387, NTBP: 1230 - 1155									
51	MGL15102380	304.4	874	3356	Prime	30.05	4.461	Complete	Complete
NTBP: 1411 - 1489, NTBP: 3357 - 3503									
Total						**111.54**			

Survey Progress (NJ3D)

Percentage of Prime Charged

50%

Prime Lines Completed

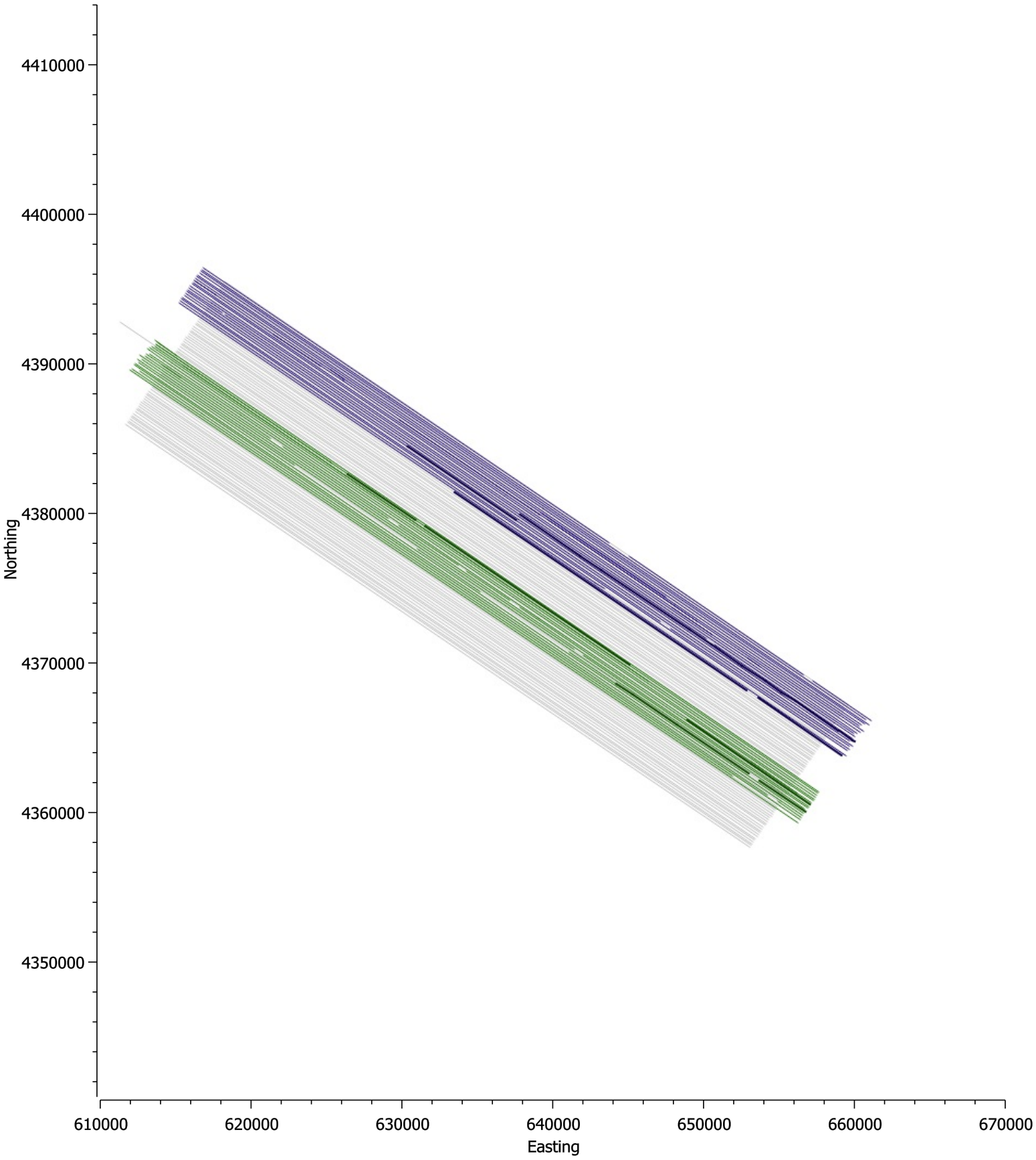
49%

Preplot Lines	Complete	Incomplete	Pending
79	39	0	0

Percentages Charged	
Prime	50.34% of 3935.19 km (Full fold)
Infill	7.88% of Charged Prime km (Sail Line)
	3.95% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	120.03 km
Average Charged Daily Prime and Infill Production	118.73 km

NJ3D: Accpt (5/29/2015 - 6/19/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sat 20 Jun

The Vessel remained in Production throughout most of the Day. At the start of the day the P-Cable system was being recovered to re-place interconnect cable between J-Box 5 & 6. This was replaced and the array re-deployed. During the recovery/deployment it was noticed that the oil in the interconnect cables looks to be degrading the insulation on the conductors. It was also observed that there where multiple signs of shark strikes throughout the array. On recovery J-Box 8 was hanging and all hardware was lost. All J-Boxes hardware was re-tighten on deployment. We are out of hardware for mounting J-Boxes on cross cable so the source department has fabricated replacement hardware that holds the J-Box securely to the cross Cable. Once the array was re-deployed the vessel resumed production and Data was acquired on lines MGL1510-1660S, 2356, 1492, & 2332.

Daily Comment Summaries - Plan for Tomorrow

Sat 20 Jun

The Vessel will start day shooting prime. The vessel should be in production throughout the rest of the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Streamers	DT_ST	Sat 20. Jun 00:00	Sat 20. Jun 03:41	3.683
Downtime due to streamers - P-Cable System repair of the failure of interconnect cable between J-Boxes 5 and 6.				
Production Prime	AC_PP	Sat 20. Jun 03:41	Sat 20. Jun 06:44	3.050
Infill Line Change	AC_ILC	Sat 20. Jun 06:44	Sat 20. Jun 07:46	1.033
Nominal Infill line change.				
Production Prime	AC_PP	Sat 20. Jun 07:46	Sat 20. Jun 09:53	2.117
SOL Seq 53 MGL15502356 FGSP=860 FCSP=860 Hdg=304.4° Prime EOL Seq 53 MGL15502356 LGSP=2241 LCSP=2241 Incomplete SOL Feather=0.5° SOL Water Depth=54m				

Category	Code	Start	End	Duration
Cetacean	DT_CT	Sat 20. Jun 09:53	Sat 20. Jun 09:58	0.083
Downtime due to close proximity of Cetaceans. - Power down for PSO Sighting				
Production Prime	AC_PP	Sat 20. Jun 09:58	Sat 20. Jun 14:09	4.183
SOL Seq 53 MGL15502356 FGSP=2304 FCSP=2304 Hdg=304.4° Prime EOL Seq 53 MGL15502356 LGSP=5137 LCSP=5137 Complete EOL Feather=-1.3° EOL Water Depth=28.2m				
Production Prime	AC_PP	Sat 20. Jun 14:09	Sat 20. Jun 15:14	1.083
Production Prime	AC_PP	Sat 20. Jun 15:14	Sat 20. Jun 21:28	6.233
SOL Seq 54 MGL15101492 FGSP=5148 FCSP=5137 Hdg=304.4° Prime EOL Seq 54 MGL15101492 LGSP=865 LCSP=865 Complete SOL Feather=-1.3° SOL Water Depth=28.2m EOL Feather=5° EOL Water Depth=55m				
Prime Line Change	AC_PLC	Sat 20. Jun 21:28	Sat 20. Jun 22:35	1.117
Nominal Prime line change.				
Production Prime	AC_PP	Sat 20. Jun 22:35	Sat 20. Jun 24:00	1.417
SOL Seq 55 MGL15102332 FGSP=871 FCSP=871 Hdg=304.4° Prime MSP Seq 55 MGL15102332 LGSP=1850 LCSP=1850 Midnight SOL Feather=-56.2° SOL Water Depth=53.7m				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

20-Jun	Hours	% Percent
Acquisition	**20.233**	**84.306**
Infill Line Change	1.033	4.306
Prime Line Change	1.117	4.653
Production Prime	18.083	75.347
DownTime	**3.767**	**15.694**
Cetacean	0.083	0.347
Streamers	3.683	15.347
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**81.167**	**14.704**
Cetacean	6.367	1.153
Nav Systems In-Sea	12.817	2.322
Prime Extended L/C	1.700	0.308
Recording	8.650	1.567
Source	14.133	2.560
Streamers	37.250	6.748
Vessel	0.250	0.045
Acquisition	**354.983**	**64.309**
Infill Line Change	6.583	1.193
Prime Extended L/C	1.133	0.205

Category	Hours	% Percent
Prime Line Change	47.433	8.593
Production Infill	7.867	1.425
Production Prime	291.967	52.893
Mobilisation	**115.850**	**20.987**
Mob Ashore	84.833	15.368
Reconfiguration	13.300	2.409
Testing	6.983	1.265
Transit to Prospect	10.733	1.944
Total	552.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 20 Jun

Navigation:
Stbd Barovane GPS still down. Long Offset Tailuoy GPS is intermittent.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
At the start of the day the P-Cable system was being recovered to re-place interconnect cable between J-Box 5 & 6. This was replaced and the array re-deployed. During the recovery/deployment it was noticed that the oil in the interconnect cables looks to be degrading the insulation on the conductors. It was also observed that there where multiple signs of shark strikes throughout the array. On recovery J-Box 8 was hanging and all hardware was lost. All J-Boxes hardware was re-tighten on deployment. We are out of hardware for mounting J-Boxes on cross cable so the source department has fabricated replacement hardware that holds the J-Box securely to the cross Cable.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sat 20 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sat 20 Jun	Marcus G Langseth	52 - 55	144.93
Total Production:			**144.93**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	118.50	755.98	1908.64	1908.64
Infill	13.95	60.17	160.19	160.19
Infill, Progressive	0.00	9.88	9.88	9.88
Prime, Reshoot	12.48	39.24	226.75	226.75
Combined	**144.92**	**865.26**	**2305.45**	**2305.45**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
52	MGL15101660S	124.4	2978	2951	Infill	0.35	3.645	Complete	Complete
52	MGL15501660S	124.4	2950	2379	Prime, Reshoot	7.15	4.719	Complete	Complete
52	MGL15101660S	124.4	2378	1291	Infill	13.60	4.634	Complete	Complete
52	MGL15501660S	124.4	1290	865	Prime, Reshoot	5.33	4.781	Complete	Complete
53	MGL15502356	304.4	860	5137	Prime	52.70	4.487	Complete	Complete
NTBP: 2242 - 2303									
54	MGL15102356	124.4	5148	865	Prime	53.55	4.638	Complete	Complete
55	MGL15102332	304.4	871	1850	Prime	12.25	4.664	Part	Midnight
Total						**144.93**			

Survey Progress (NJ3D)

Percentage of Prime Charged

54%

Prime Lines Completed

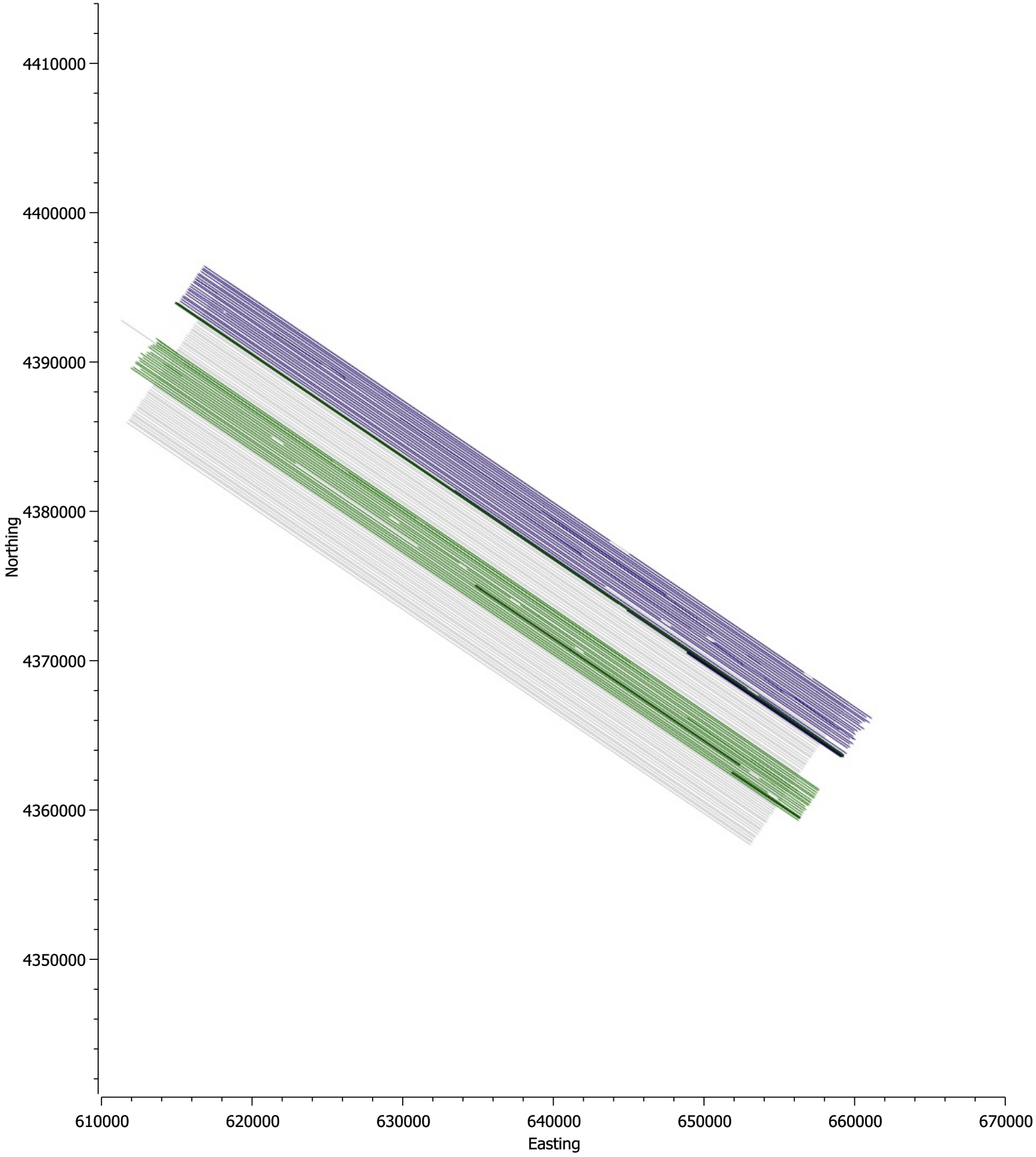
51%

Preplot Lines	Complete	Incomplete	Pending
79	40	1	0

Percentages Charged	
Prime	53.67% of 3935.19 km (Full fold)
Infill	8.05% of Charged Prime km (Sail Line)
	4.30% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	121.34 km
Average Charged Daily Prime and Infill Production	120.11 km

NJ3D: Accpt (5/29/2015 - 6/20/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sun 21 Jun

The Vessel remained in Production throughout the Day. Data was acquired on lines MGL1510-2332, 1468, 2308, & 1444. We had rough seas today when a low pressure front moved through causing some steering difficulties for two lines. We picked up Sub-Array 1 to replace gun solenoid on element #7 causing some double pops. We had one small edit for P-Cable software lock up. We added two shipwrecks, the Lillian and Maurice Tracy, as obstacles in NAV as a precautionary measure.

Daily Comment Summaries - Plan for Tomorrow

Sun 21 Jun

The vessel should be in production throughout the rest of the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Sun 21. Jun 00:00	Sun 21. Jun 04:51	4.850
SOL Seq 55 MGL15102332 FGSP=1851 FCSP=1851 Hdg=304.4° Prime EOL Seq 55 MGL15102332 LGSP=5137 LCSP=5137 Complete EOL Feather=-1.8° EOL Water Depth=25.5m				
Production Prime	AC_PP	Sun 21. Jun 04:51	Sun 21. Jun 05:57	1.100
Production Prime	AC_PP	Sun 21. Jun 05:57	Sun 21. Jun 12:26	6.483
SOL Seq 56 MGL15101468 FGSP=5138 FCSP=5138 Hdg=124.4° Prime EOL Seq 56 MGL15101468 LGSP=865 LCSP=865 Complete SOL Feather=55.7° SOL Water Depth=23.8m EOL Feather=1.2°				

Category	Code	Start	End	Duration
EOL Water Depth=56.7m				
Prime Line Change	AC_PLC	Sun 21. Jun 12:26	Sun 21. Jun 13:27	1.017
Nominal Prime line change.				
Production Prime	AC_PP	Sun 21. Jun 13:27	Sun 21. Jun 20:02	6.583
SOL Seq 57 MGL15102308 FGSP=865 FCSP=865 Hdg=304.4° Prime EOL Seq 57 MGL15102308 LGSP=5137 LCSP=5137 Complete SOL Feather=-50.4° SOL Water Depth=55.6m EOL Feather=-5.5° EOL Water Depth=24.7m				
Prime Line Change	AC_PLC	Sun 21. Jun 20:02	Sun 21. Jun 21:20	1.300
Nominal Prime line change.				
Recording	DT_RC	Sun 21. Jun 21:20	Sun 21. Jun 21:59	0.650
Downtime due to recording systems. P-Cable System Lockup				
Production Prime	AC_PP	Sun 21. Jun 21:59	Sun 21. Jun 24:00	2.017
MGL15101444				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

21-Jun	Hours	% Percent
Acquisition	**23.350**	**97.292**
Prime Line Change	2.317	9.653
Production Prime	21.033	87.639
DownTime	**0.650**	**2.708**
Recording	0.650	2.708
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**81.817**	**14.204**
Cetacean	6.367	1.105
Nav Systems In-Sea	12.817	2.225
Prime Extended L/C	1.700	0.295
Recording	9.300	1.615
Source	14.133	2.454
Streamers	37.250	6.467
Vessel	0.250	0.043
Acquisition	**378.333**	**65.683**
Infill Line Change	6.583	1.143
Prime Extended L/C	1.133	0.197
Prime Line Change	49.750	8.637
Production Infill	7.867	1.366
Production Prime	313.000	54.340
Mobilisation	**115.850**	**20.113**
Mob Ashore	84.833	14.728
Reconfiguration	13.300	2.309
Testing	6.983	1.212

Category	Hours	% Percent
Transit to Prospect	10.733	1.863
Total	576.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 21 Jun

Navigation:
Stbd Barovane GPS still down. Long Offset Tailbuoy GPS is intermittent.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
We had one small edit for P-Cable software lock up.

Towing and Handling (Source):
Recovered Sub-Array to change out solenoid on gun 7 due to double pops caused by aluminum washer. Changed out elements 9 and 10 as preventative maintenance.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sun 21 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
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Kasinger Josh Marine Tech (Source)
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Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

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Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sun 21 Jun	Marcus G Langseth	55 - 58	153.21
Total Production:			**153.21**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	153.21	909.19	2061.85	2061.85
Infill	0.00	60.17	160.19	160.19
Infill, Progressive	0.00	9.88	9.88	9.88
Prime, Reshoot	0.00	39.24	226.75	226.75
Combined	**153.21**	**1018.47**	**2458.66**	**2458.66**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
55	MGL15102332	304.4	1851	5137	Prime	41.09	4.595	Complete	Complete
56	MGL15101468	124.4	5138	865	Prime	53.43	4.448	Complete	Complete
57	MGL15102308	304.4	865	5137	Prime	53.41	4.380	Complete	Complete
58	MGL15101444	124.4	5129	3392	Prime	5.29	4.284	Part	Midnight
Total						**153.21**			

Survey Progress (NJ3D)

Percentage of Prime Charged

58%

Prime Lines Completed

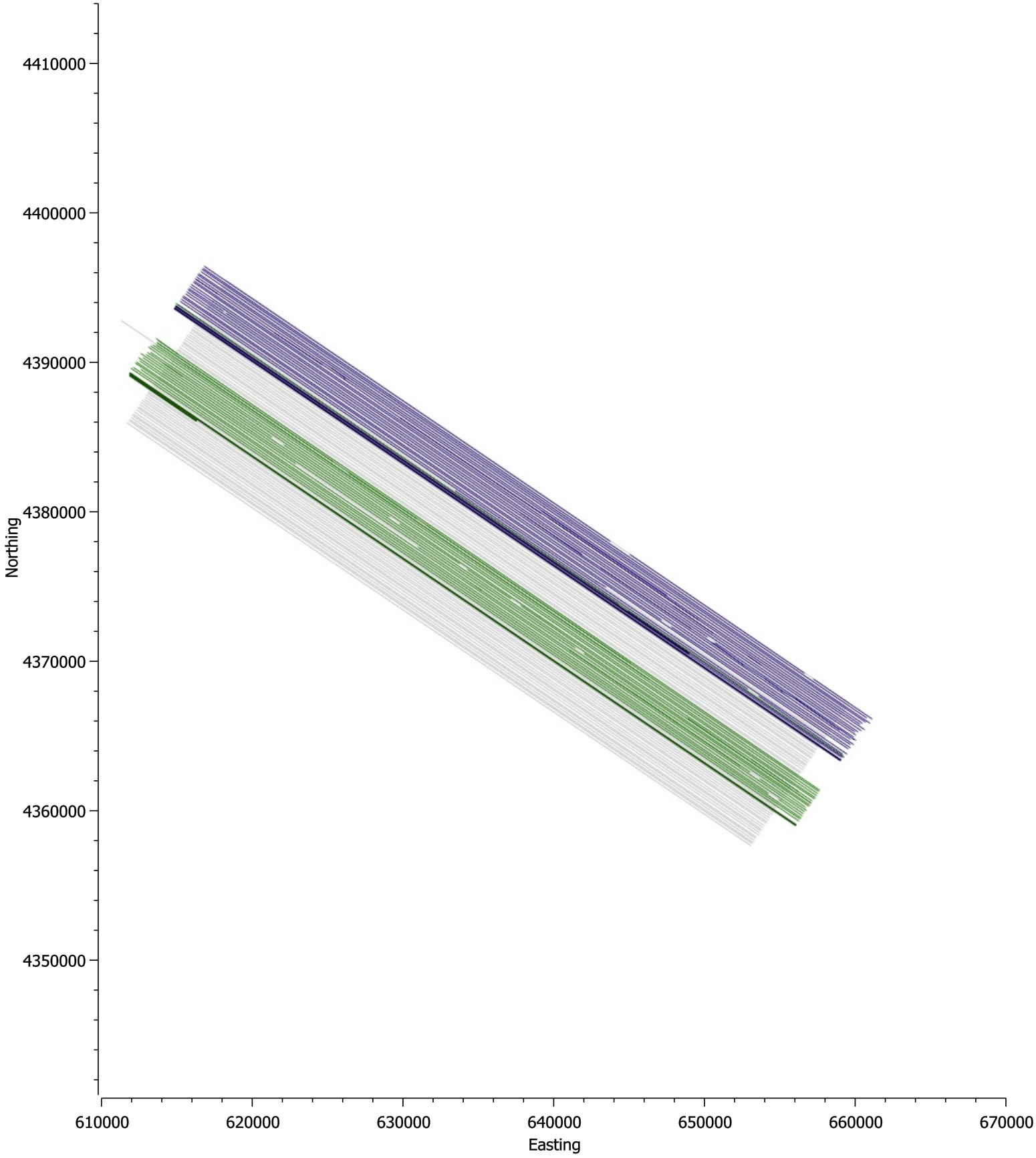
54%

Preplot Lines	Complete	Incomplete	Pending
79	43	1	0

Percentages Charged	
Prime	57.96% of 3935.19 km (Full fold)
Infill	7.46% of Charged Prime km (Sail Line)
	4.30% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	122.93 km
Average Charged Daily Prime and Infill Production	122.55 km

NJ3D: Accpt (5/29/2015 - 6/21/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

22 Jun 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Mon 22 Jun

The Vessel remained in Production throughout the Day. Data was acquired on lines MGL1510-1444, 1420, 2260, & 1396. We had several PSO sightings and subsequent power downs with one complete shutdown. A high flier fishing buoy and gear were caught in the signal cable around 20;30 UTC. Also at ~20:33 UTC there was NavPoint (NCS Navigation System) lock up of ~60 Shots. It did not cause any interruption in production throughout the night time hours.

Daily Comment Summaries - Plan for Tomorrow

Mon 22 Jun

The vessel should be in production throughout the rest of the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Mon 22. Jun 00:00	Mon 22. Jun 03:55	3.917
SOL Seq 58 MGL15101444 FGSP=3391 FCSP=3391 Hdg=124.4° Prime EOL Seq 58 MGL15101444 LGSP=865 LCSP=865 Complete EOL Feather=-2.2° EOL Water Depth=55.3m				
Prime Line Change	AC_PLC	Mon 22. Jun 03:55	Mon 22. Jun 04:57	1.033
Nominal Prime line change.				
Production Prime	AC_PP	Mon 22. Jun 04:57	Mon 22. Jun 11:38	6.683
SOL Seq 59 MGL15102284 FGSP=857 FCSP=857 Hdg=304.4° Prime EOL Seq 59 MGL15102284 LGSP=5137 LCSP=5137 Complete SOL Feather=-55.3° SOL Water Depth=54.5m				

Category	Code	Start	End	Duration
EOL Feather=2.1° EOL Water Depth=25.1m				
Prime Line Change	AC_PLC	Mon 22. Jun 11:38	Mon 22. Jun 12:44	1.100
Nominal Prime line change.				
Production Prime	AC_PP	Mon 22. Jun 12:44	Mon 22. Jun 13:50	1.100
SOL Seq 60 MGL15101420 FGSP=5144 FCSP=5144 Hdg=124.4° Prime EOL Seq 60 MGL15101420 LGSP=4452 LCSP=4452 Incomplete SOL Feather=53° SOL Water Depth=22.6m				
Cetacean	DT_CT	Mon 22. Jun 13:50	Mon 22. Jun 15:24	1.567
NTBP Seq 60 FSP=4451 LSP=3513 - Shutdown for PSO Sighting				
Production Prime	AC_PP	Mon 22. Jun 15:24	Mon 22. Jun 17:06	1.700
SOL Seq 60 MGL15101420 FGSP=3512 FCSP=3512 Hdg=124.4° Prime EOL Seq 60 MGL15101420 LGSP=2387 LCSP=2387 Incomplete				
Cetacean	DT_CT	Mon 22. Jun 17:06	Mon 22. Jun 17:12	0.100
NTBP Seq 60 FSP=2386 LSP=2313 - Power Down for PSO Sighting				
Production Prime	AC_PP	Mon 22. Jun 17:12	Mon 22. Jun 17:32	0.333
SOL Seq 60 MGL15101420 FGSP=2312 FCSP=2312 Hdg=124.4° Prime EOL Seq 60 MGL15101420 LGSP=2081 LCSP=2081 Incomplete				
Cetacean	DT_CT	Mon 22. Jun 17:32	Mon 22. Jun 17:38	0.100
NTBP Seq 60 FSP=2080 LSP=2008 Power Down for PSO Sighting				
Production Prime	AC_PP	Mon 22. Jun 17:38	Mon 22. Jun 18:19	0.683
SOL Seq 60 MGL15101420 FGSP=2007 FCSP=2007 Hdg=124.4° Prime EOL Seq 60 MGL15101420 LGSP=1535 LCSP=1535 Incomplete				
Cetacean	DT_CT	Mon 22. Jun 18:19	Mon 22. Jun 18:24	0.083
NTBP Seq 60 FSP=1534 LSP=1448 Power Down for PSO Sighting				
Production Prime	AC_PP	Mon 22. Jun 18:24	Mon 22. Jun 19:16	0.867
SOL Seq 60 MGL15101420 FGSP=1447 FCSP=1447 Hdg=124.4° Prime EOL Seq 60 MGL15101420 LGSP=865 LCSP=865 Complete EOL Feather=2.1° EOL Water Depth=55.3m				
Prime Line Change	AC_PLC	Mon 22. Jun 19:16	Mon 22. Jun 20:19	1.050
Nominal Prime line change.				
Production Prime	AC_PP	Mon 22. Jun 20:19	Mon 22. Jun 20:39	0.333
SOL Seq 61 MGL15102260 FGSP=871 FCSP=871 Hdg=304.4° Prime EOL Seq 61 MGL15102260 LGSP=1078 LCSP=1078 Incomplete SOL Feather=-48.6° SOL Water Depth=53.6m				
Nav Systems Onboard	DT_NO	Mon 22. Jun 20:39	Mon 22. Jun 20:43	0.067
NTBP Seq 61 FSP=1079 LSP=1122 - Nav-Point Lockup (NCS Navigation)				
Production Prime	AC_PP	Mon 22. Jun 20:43	Mon 22. Jun 24:00	3.283
SOL Seq 61 MGL15102260 FGSP=1123 FCSP=1123 Hdg=304.4° Prime MSP Seq 61 MGL15102260 LGSP=3208 LCSP=3208 Midnight				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

22-Jun	Hours	% Percent
Acquisition	**22.083**	**92.014**
Prime Line Change	3.183	13.264
Production Prime	18.900	78.750
DownTime	**1.917**	**7.986**
Cetacean	1.850	7.708
Nav Systems Onboard	0.067	0.278
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**83.733**	**13.956**
Cetacean	8.217	1.369
Nav Systems In-Sea	12.817	2.136
Nav Systems Onboard	0.067	0.011
Prime Extended L/C	1.700	0.283
Recording	9.300	1.550
Source	14.133	2.356
Streamers	37.250	6.208
Vessel	0.250	0.042
Acquisition	**400.417**	**66.736**
Infill Line Change	6.583	1.097
Prime Extended L/C	1.133	0.189
Prime Line Change	52.933	8.822
Production Infill	7.867	1.311
Production Prime	331.900	55.317
Mobilisation	**115.850**	**19.308**
Mob Ashore	84.833	14.139
Reconfiguration	13.300	2.217
Testing	6.983	1.164
Transit to Prospect	10.733	1.789
Total	600.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 22 Jun

Navigation:
Stbd Barovane GPS still down. Long Offset Tailbuoy GPS is intermittent at times. There was on lockup of NavPoint (NCS Navigation) during line MGL15102266 just befor ethe end of the day. The system was restarted and production resumed.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report - At 20:33 UTC the bridge reported that there was fishing gear off the Stbd Bow about 300m. At that time it was to late to make any maneuvers to avoid the gear. The Fishing gear hit about mid-way up the signal cable and continued to work it way down the cable until it was about 30-50m from the termination point where it remained.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Mon 22 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Mon 22 Jun	Marcus G Langseth	58 - 61	152.61
Total Production:			**152.61**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	152.61	152.61	2230.11	2230.11
Infill	0.00	0.00	160.19	160.19
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	0.00	0.00	226.75	226.75
Combined	**152.61**	**152.61**	**2626.92**	**2626.92**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
58	MGL15101444	124.4	3391	865	Prime	31.59	4.340	Complete	Complete
59	MGL15102284	304.4	857	5137	Prime	53.51	4.322	Complete	Complete
60	MGL15101420	124.4	5144	865	Prime	38.84	4.517	Complete	Complete
NTBP: 4451 - 3513, NTBP: 2386 - 2313, NTBP: 2080 - 2008, NTBP: 1534 - 1448									
61	MGL15102260	304.4	871	3208	Prime	28.68	4.239	Part	Midnight
NTBP: 1079 - 1122									
Total						**152.61**			

Survey Progress (NJ3D)

Percentage of Prime Charged

62%

Prime Lines Completed

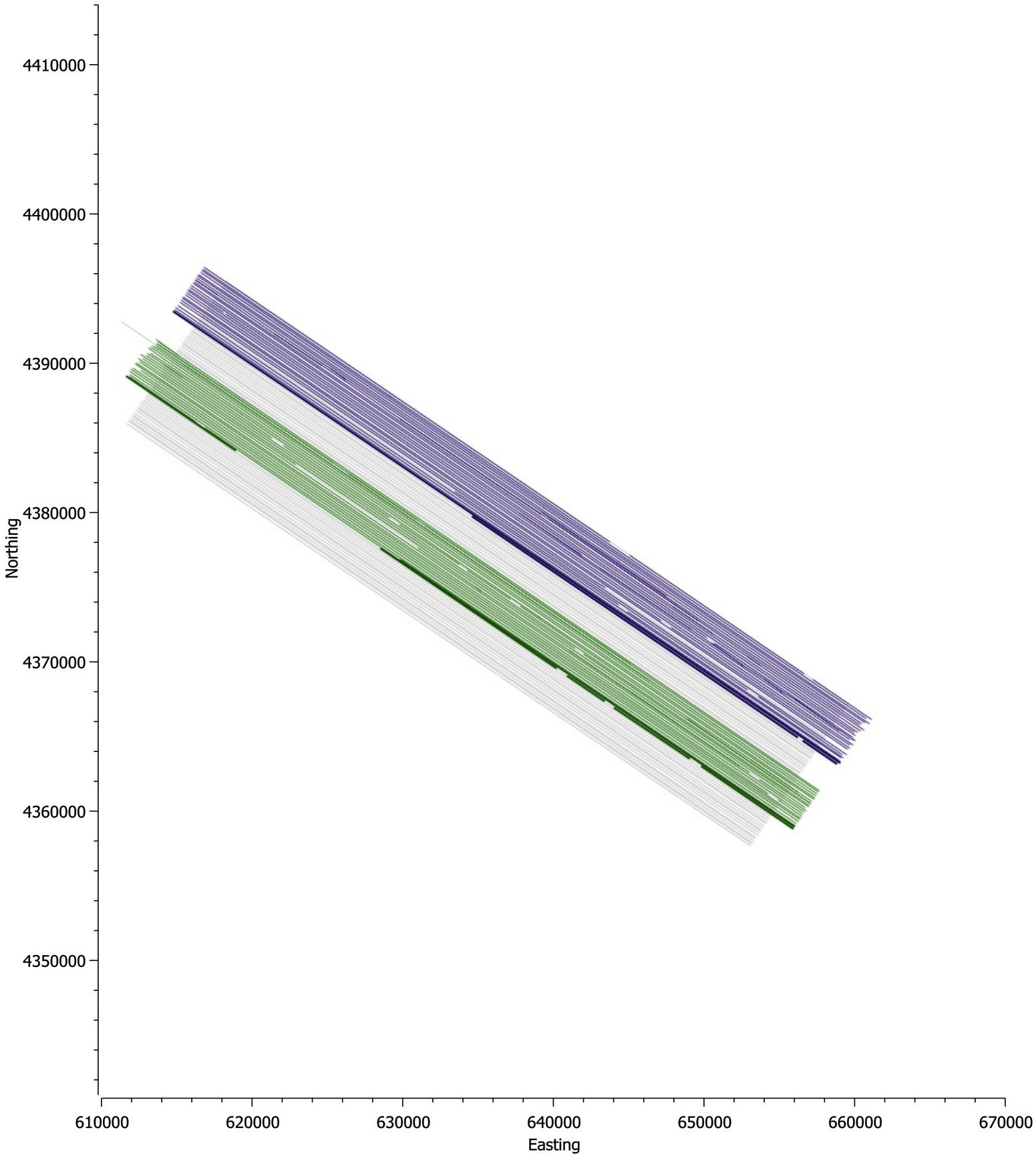
59%

Preplot Lines	Complete	Incomplete	Pending
79	47	1	0

Percentages Charged	
Prime	61.84% of 3935.19 km (Full fold)
Infill	6.99% of Charged Prime km (Sail Line)
	4.30% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	125.09 km
Average Charged Daily Prime and Infill Production	123.98 km

NJ3D: Accpt (5/29/2015 - 6/22/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Tue 23 Jun

The Vessel remained in Production throughout the Day. Data was acquired on lines MGL1510-2260, 1396, 2236, & 1372.

Daily Comment Summaries - Plan for Tomorrow

Tue 23 Jun

The vessel should be in production throughout the rest of the day. We will recovery the source for preventive maintenance, which is expected to adds a few min to a normal line change

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Tue 23. Jun 00:00	Tue 23. Jun 02:49	2.817
SOL Seq 61 MGL15102260 FGSP=3209 FCSP=3209 Hdg=304.4° Prime EOL Seq 61 MGL15102260 LGSP=5137 LCSP=5137 Complete EOL Feather=-0.6° EOL Water Depth=25.9m				
Prime Line Change	AC_PLC	Tue 23. Jun 02:49	Tue 23. Jun 03:55	1.100
Nominal Prime line change.				
Production Prime	AC_PP	Tue 23. Jun 03:55	Tue 23. Jun 10:28	6.550
SOL Seq 62 MGL15101396 FGSP=5133 FCSP=5133 Hdg=124.4° Prime EOL Seq 62 MGL15101396 LGSP=865 LCSP=865 Complete SOL Feather=-52.1° SOL Water Depth=22.1m EOL Feather=3.6°				

Category	Code	Start	End	Duration
EOL Water Depth=54.5m				
Prime Line Change	AC_PLC	Tue 23. Jun 10:28	Tue 23. Jun 11:31	1.050
Nominal Prime line change.				
Production Prime	AC_PP	Tue 23. Jun 11:31	Tue 23. Jun 17:57	6.433
SOL Seq 63 MGL15102236 FGSP=857 FCSP=857 Hdg=304.4° Prime EOL Seq 63 MGL15102236 LGSP=5137 LCSP=5137 Complete SOL Feather=53.1° SOL Water Depth=53.2m EOL Feather=1.6° EOL Water Depth=25.1m				
Prime Line Change	AC_PLC	Tue 23. Jun 17:57	Tue 23. Jun 19:05	1.133
Nominal Prime line change.				
Production Prime	AC_PP	Tue 23. Jun 19:05	Tue 23. Jun 24:00	4.917
SOL Seq 64 MGL15101372 FGSP=5130 FCSP=5130 Hdg=124.4° Prime MSP Seq 64 MGL15101372 LGSP=1848 LCSP=1848 Midnight SOL Feather=51.5° SOL Water Depth=22.1m				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

23-Jun	Hours	% Percent
Acquisition	**24.000**	**100.000**
Prime Line Change	3.283	13.681
Production Prime	20.717	86.319
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**83.733**	**13.419**
Cetacean	8.217	1.317
Nav Systems In-Sea	12.817	2.054
Nav Systems Onboard	0.067	0.011
Prime Extended L/C	1.700	0.272
Recording	9.300	1.490
Source	14.133	2.265
Streamers	37.250	5.970
Vessel	0.250	0.040
Acquisition	**424.417**	**68.015**
Infill Line Change	6.583	1.055
Prime Extended L/C	1.133	0.182
Prime Line Change	56.217	9.009
Production Infill	7.867	1.261
Production Prime	352.617	56.509
Mobilisation	**115.850**	**18.566**
Mob Ashore	84.833	13.595
Reconfiguration	13.300	2.131
Testing	6.983	1.119
Transit to Prospect	10.733	1.720

Category	Hours	% Percent
Total	624.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 23 Jun

Navigation:
Stbd Barovane GPS still down. Long Offset Tailbuoy GPS is intermittent at times.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report - The Fishing gear is still hung on signal cable 30-50m from the termination point. Channel 117 is spiking on P-Cable streamer #15.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Tue 23 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Tue 23 Jun	Marcus G Langseth	61 - 64	172.03
Total Production:			**172.03**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	172.03	324.64	2402.14	2402.14
Infill	0.00	0.00	160.19	160.19
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	0.00	0.00	226.75	226.75
Combined	**172.03**	**324.64**	**2798.95**	**2798.95**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
61	MGL15102260	304.4	3209	5137	Prime	24.11	4.316	Complete	Complete
62	MGL15101396	124.4	5133	865	Prime	53.36	4.398	Complete	Complete
63	MGL15102236	304.4	857	5137	Prime	53.51	4.490	Complete	Complete
64	MGL15101372	124.4	5130	1848	Prime	41.04	4.505	Part	Midnight
Total						**172.03**			

Survey Progress (NJ3D)

Percentage of Prime Charged

66%

Prime Lines Completed

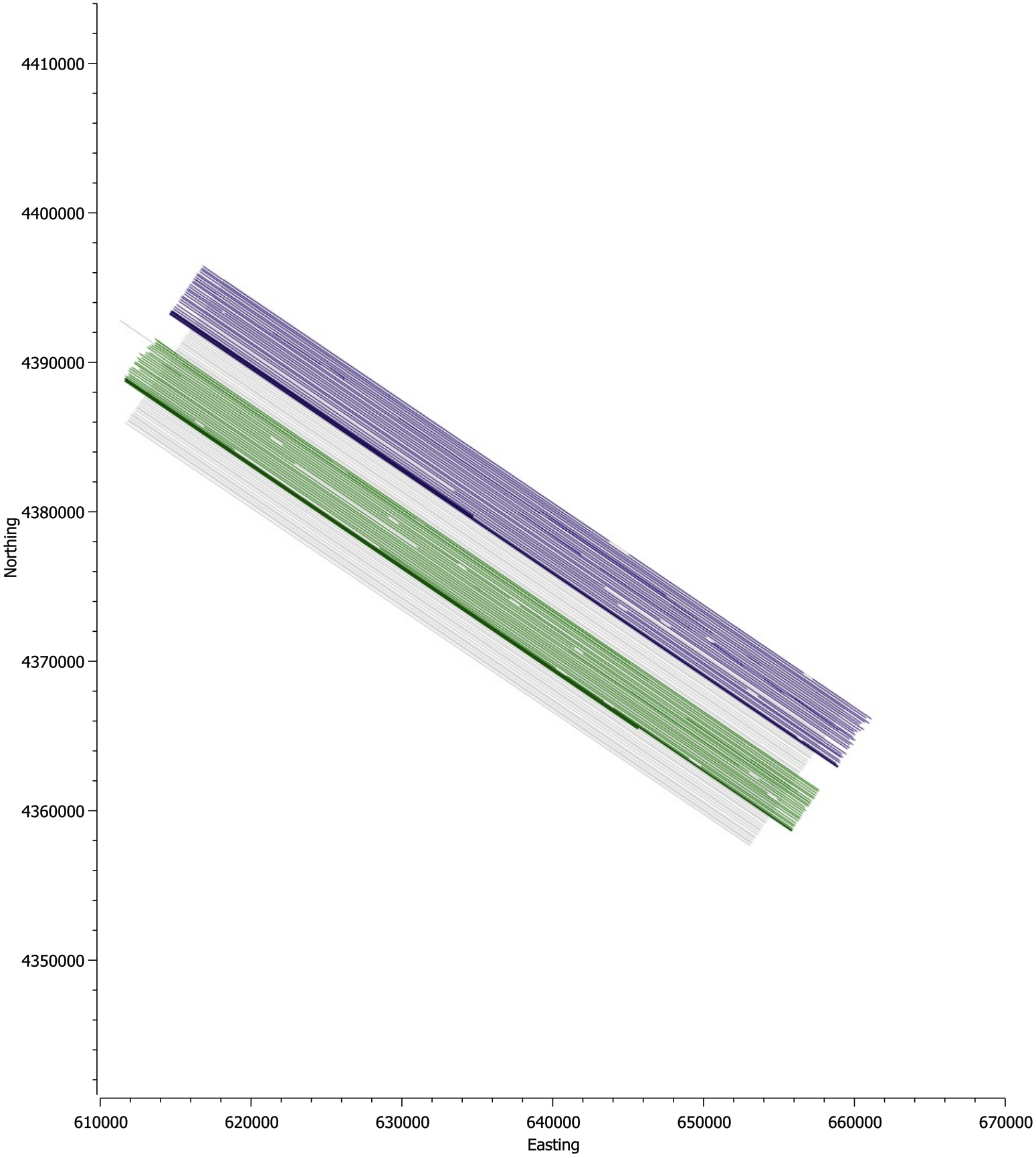
63%

Preplot Lines	Complete	Incomplete	Pending
79	50	1	0

Percentages Charged	
Prime	66.21% of 3935.19 km (Full fold)
Infill	6.53% of Charged Prime km (Sail Line)
	4.30% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	127.23 km
Average Charged Daily Prime and Infill Production	126.16 km

NJ3D: Accpt (5/29/2015 - 6/23/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D

General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Wed 24 Jun

The Vessel remained in Production throughout the Day. Data was acquired on lines MGL1510-1372, 2212, 1348, & 2164. There was a number of PSO power downs throughout the day as well as some issues with Source Element #4 auto firing. In addition the P-Cable system locked up an it took a little while to get it back on line as well as Spectra 3 locking up. At this time all system seem to be functioning normal with the exception of P-Cable Streamer #13 no functioning.

Daily Comment Summaries - Plan for Tomorrow

Wed 24 Jun

The vessel should be in production throughout the rest of the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 24. Jun 00:00	Wed 24. Jun 01:35	1.583
SOL Seq 64 MGL15101372 FGSP=1847 FCSP=1847 Hdg=124.4° Prime EOL Seq 64 MGL15101372 LGSP=865 LCSP=865 Complete EOL Feather=2.4° EOL Water Depth=55.3m				
Prime Line Change	AC_PLC	Wed 24. Jun 01:35	Wed 24. Jun 02:42	1.117
Nominal Prime line change.				
Production Prime	AC_PP	Wed 24. Jun 02:42	Wed 24. Jun 07:07	4.417
SOL Seq 65 MGL15102212 FGSP=875 FCSP=875 Hdg=304.4° Prime EOL Seq 65 MGL15102212 LGSP=3836 LCSP=3836 Incomplete SOL Feather=-39.9° SOL Water Depth=53.1m				

Category	Code	Start	End	Duration
Source	DT_SC	Wed 24. Jun 07:07	Wed 24. Jun 07:09	0.033
NTBP Seq 65 FSP=3837 LSP=3856 Downtime due to source. Autofire on element #4. Swapped to #5.				
Production Prime	AC_PP	Wed 24. Jun 07:09	Wed 24. Jun 09:14	2.083
SOL Seq 65 MGL15102212 FGSP=3857 FCSP=3857 Hdg=304.4° Prime EOL Seq 65 MGL15102212 LGSP=5137 LCSP=5137 Complete				
Prime Line Change	AC_PLC	Wed 24. Jun 09:14	Wed 24. Jun 10:30	1.267
Nominal Prime line change.				
Production Prime	AC_PP	Wed 24. Jun 10:30	Wed 24. Jun 14:25	3.917
SOL Seq 66 MGL15101348 FGSP=5148 FCSP=5148 Hdg=124.4° Prime EOL Seq 66 MGL15101348 LGSP=2456 LCSP=2456 Incomplete SOL Feather=56.4° SOL Water Depth=20.9m				
Cetacean	DT_CT	Wed 24. Jun 14:25	Wed 24. Jun 14:30	0.083
NTBP Seq 66 FSP=2455 LSP=2402 - Power down for PSO Sighting				
Production Prime	AC_PP	Wed 24. Jun 14:30	Wed 24. Jun 14:52	0.367
SOL Seq 66 MGL15101348 FGSP=2401 FCSP=2401 Hdg=124.4° Prime EOL Seq 66 MGL15101348 LGSP=2170 LCSP=2170 Incomplete				
Cetacean	DT_CT	Wed 24. Jun 14:52	Wed 24. Jun 14:58	0.100
NTBP Seq 66 FSP=2169 LSP=2110 - Power down for PSO Sighting				
Production Prime	AC_PP	Wed 24. Jun 14:58	Wed 24. Jun 16:52	1.900
SOL Seq 66 MGL15101348 FGSP=2109 FCSP=2109 Hdg=124.4° Prime EOL Seq 66 MGL15101348 LGSP=865 LCSP=865 Complete EOL Feather=6.2° EOL Water Depth=56.3m				
Prime Line Change	AC_PLC	Wed 24. Jun 16:52	Wed 24. Jun 17:57	1.083
Nominal Prime line change.				
Production Prime	AC_PP	Wed 24. Jun 17:57	Wed 24. Jun 18:56	0.983
SOL Seq 67 MGL15102164 FGSP=873 FCSP=873 Hdg=304.4° Prime EOL Seq 67 MGL15102164 LGSP=1523 LCSP=1523 Incomplete SOL Feather=51° SOL Water Depth=53.8m				
Recording	DT_RC	Wed 24. Jun 18:56	Wed 24. Jun 19:36	0.667
NTBP Seq 67 FSP=1524 LSP=1899 - P-Cable recording system lock				
Production Prime	AC_PP	Wed 24. Jun 19:36	Wed 24. Jun 20:05	0.483
SOL Seq 67 MGL15102164 FGSP=1900 FCSP=1900 Hdg=304.4° Prime EOL Seq 67 MGL15102164 LGSP=2204 LCSP=2204 Incomplete P-Cable Streamer - 13 Disabled				
Cetacean	DT_CT	Wed 24. Jun 20:05	Wed 24. Jun 20:11	0.100
NTBP Seq 67 FSP=2205 LSP=2265 - Power down for PSO Sighting				
Production Prime	AC_PP	Wed 24. Jun 20:11	Wed 24. Jun 24:00	3.817
SOL Seq 67 MGL15102164 FGSP=2266 FCSP=2266 Hdg=304.4° Prime MSP Seq 67 MGL15102164 LGSP=4858 LCSP=4858 Midnight P-Cable Streamer - 13 Disabled				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

24-Jun	Hours	% Percent
Acquisition	**23.017**	**95.903**
Prime Line Change	3.467	14.444
Production Prime	19.550	81.458
DownTime	**0.983**	**4.097**
Cetacean	0.283	1.181
Recording	0.667	2.778
Source	0.033	0.139
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**84.717**	**13.074**
Cetacean	8.500	1.312
Nav Systems In-Sea	12.817	1.978
Nav Systems Onboard	0.067	0.010
Prime Extended L/C	1.700	0.262
Recording	9.967	1.538
Source	14.167	2.186
Streamers	37.250	5.748
Vessel	0.250	0.039
Acquisition	**447.433**	**69.048**
Infill Line Change	6.583	1.016
Prime Extended L/C	1.133	0.175
Prime Line Change	59.683	9.210
Production Infill	7.867	1.214
Production Prime	372.167	57.433
Mobilisation	**115.850**	**17.878**
Mob Ashore	84.833	13.092
Reconfiguration	13.300	2.052
Testing	6.983	1.078
Transit to Prospect	10.733	1.656
Total	648.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 24 Jun

Navigation:
Stbd Barovane GPS still down. Long Offset Tailbuoy GPS is intermittent . During Line MGL15102164 Spectra #3's screens went blank and all process stopped, Spectra #1 keep sending closers, headers, logging data and the line going. At the end of the line the spectra 3 was rebooted and looks to be functioning normally.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
During Line MGL15102164 - the P-Cable Recording System locked up. After some troubleshooting the system was brought back on-line and production continued. After the system was brought back up it was showing that it had leakage present and streamer 13 had to be disabled as a result of spiking data, which caused the lockup in the first place.

Towing and Handling (Source):
During Line MGL15102212 Source Element stared auto-firing. There was about 29 shot-points with bad data while the element was located. Source element #4 was disable an Element #5 was brought on-line. Normal Production continued and the Sub-Array was recovered at the end of the line and repairs where made.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 24 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Wed 24 Jun	Marcus G Langseth	64 - 67	161.81
Total Production:			**161.81**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	161.81	486.45	2563.95	2563.95
Infill	0.00	0.00	160.19	160.19
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	0.00	0.00	226.75	226.75
Combined	**161.81**	**486.45**	**2960.76**	**2960.76**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
64	MGL15101372	124.4	1847	865	Prime	12.29	4.429	Complete	Complete
65	MGL15102212	304.4	875	5137	Prime	53.04	4.336	Complete	Complete
NTBP: 3837 - 3856									
66	MGL15101348	124.4	5148	865	Prime	52.12	4.437	Complete	Complete
NTBP: 2455 - 2402, NTBP: 2169 - 2110									
67	MGL15102164	304.4	873	4858	Prime	44.36	4.430	Part	Midnight
NTBP: 1524 - 1899, NTBP: 2205 - 2265									
Total						**161.81**			

Survey Progress (NJ3D)

Percentage of Prime Charged

70%

Prime Lines Completed

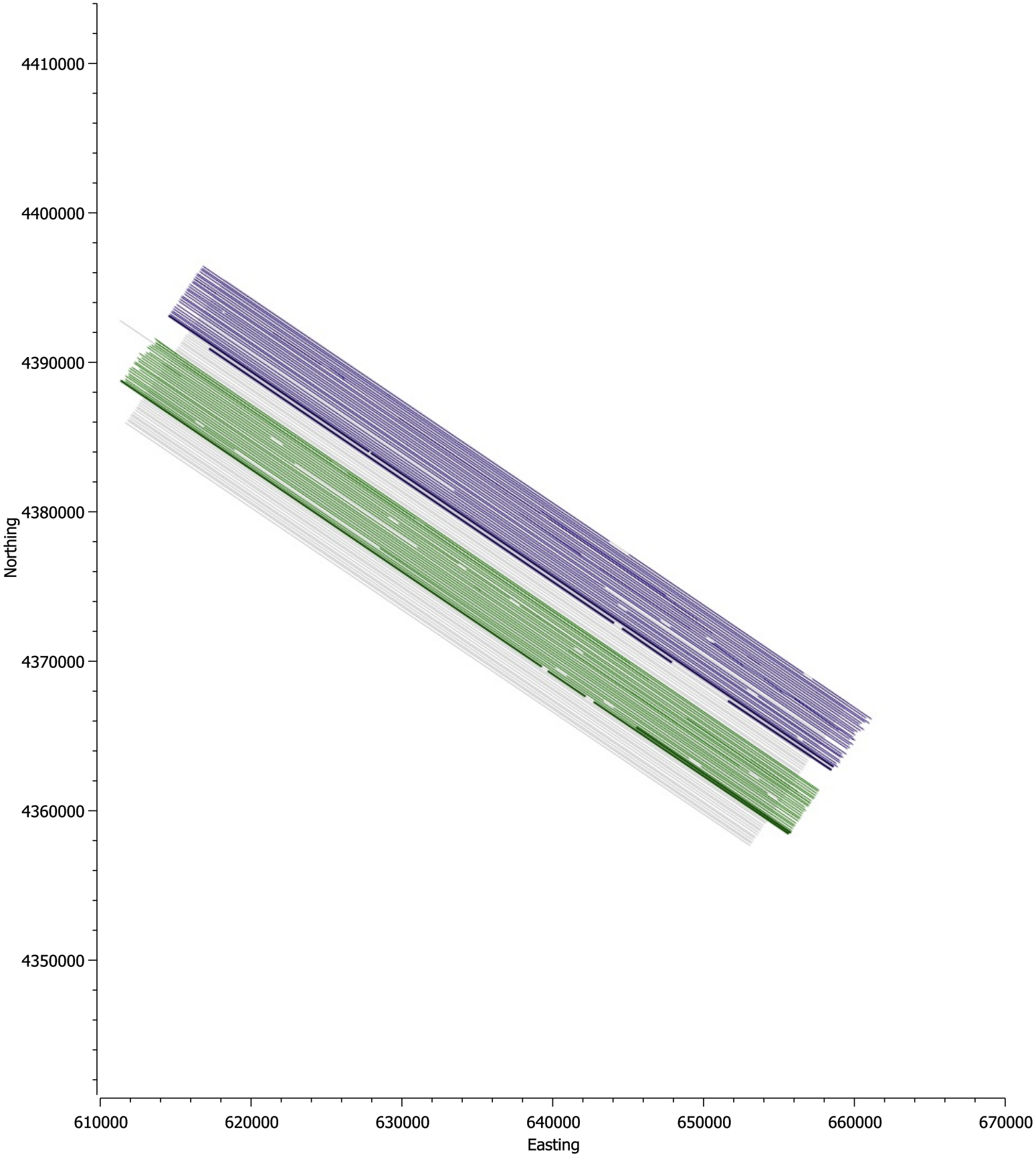
67%

Preplot Lines	Complete	Incomplete	Pending
79	53	1	0

Percentages Charged	
Prime	70.32% of 3935.19 km (Full fold)
Infill	6.15% of Charged Prime km (Sail Line)
	4.30% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	128.73 km
Average Charged Daily Prime and Infill Production	127.71 km

NJ3D: Accpt (5/29/2015 - 6/24/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Thu 25 Jun

The Vessel started the day in Production. Data was acquired on lines MGL1510-2164, 1324, & 2116. During Line MGL15102116 the P-Cable System developed communication issues which required the in water equipment to be recovered. On Recovery it was found that Streamers 13 and 16 where lost at sea. The P-Cable System was recovered to Streamer 1, fishing gear was removed from the signal cable and redeployment began at 17:00 UTC . At 23:27 UTC the P-Cable system was re-deployed and the source ramp up stated at 23:32 UTC and continued throughout the rest of the day.

Daily Comment Summaries - Plan for Tomorrow

Thu 25 Jun

The vessel should be in production throughout the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Thu 25. Jun 00:00	Thu 25. Jun 00:24	0.400
SOL Seq 67 MGL15102164 FGSP=4859 FCSP=4859 Hdg=304.4° Prime EOL Seq 67 MGL15102164 LGSP=5137 LCSP=5137 Complete EOL Feather=-2.3° EOL Water Depth=23.4m				
Prime Line Change	AC_PLC	Thu 25. Jun 00:24	Thu 25. Jun 01:30	1.100
Nominal Prime line change.				
Production Prime	AC_PP	Thu 25. Jun 01:30	Thu 25. Jun 03:57	2.450
SOL Seq 68 MGL15101324 FGSP=5131 FCSP=5131 Hdg=124.4° Prime EOL Seq 68 MGL15101324 LGSP=3591 LCSP=3591 Incomplete SOL Feather=-50.8° SOL Water Depth=20.9m				

Category	Code	Start	End	Duration
Recording	DT_RC	Thu 25. Jun 03:57	Thu 25. Jun 04:02	0.083
NTBP Seq 68 FSP=3590 LSP=3530 - P-Cable Recording System Lockup				
Production Prime	AC_PP	Thu 25. Jun 04:02	Thu 25. Jun 07:58	3.933
SOL Seq 68 MGL15101324 FGSP=3529 FCSP=3529 Hdg=124.4° Prime EOL Seq 68 MGL15101324 LGSP=865 LCSP=865 Complete EOL Feather=-1.4° EOL Water Depth=57.5m				
Prime Line Change	AC_PLC	Thu 25. Jun 07:58	Thu 25. Jun 09:02	1.067
Nominal Prime line change.				
Recording	DT_RC	Thu 25. Jun 09:02	Thu 25. Jun 09:27	0.417
NTBP Seq 69 FSP=885 LSP=1285 - P-Cable System lockup due to the loss of Streamers 13 & 16				
Production Prime	AC_PP	Thu 25. Jun 09:27	Thu 25. Jun 14:45	5.300
SOL Seq 69 MGL15102116 FGSP=1286 FCSP=1286 Hdg=304.4° Prime EOL Seq 69 MGL15102116 LGSP=4541 LCSP=4541 Complete SOL Feather=-45.3° SOL Water Depth=53.8m				
Streamers	DT_ST	Thu 25. Jun 14:45	Thu 25. Jun 14:57	0.200
NTBP Seq 69 FSP=4542 LSP=4671 - P-Cable Recording system lockup due to Streamer #10 Failure				
Streamers	DT_ST	Thu 25. Jun 14:57	Thu 25. Jun 15:57	1.000
Downtime due to P-Cable streamers - Picking up the Source and PAM. Turing offshore to recover Streamer Equipment				
Streamers	DT_ST	Thu 25. Jun 15:57	Thu 25. Jun 17:00	1.050
Downtime due to P-Cable streamers - P-Cable Up to Streamer 1. Streamer 13 and 16 lost at sea and Streamer 10 towing of jumper. All three where failures of the digitizer Bale.				
Streamers	DT_ST	Thu 25. Jun 17:00	Thu 25. Jun 23:27	6.450
Downtime due to P-Cable streamers - Re-Deploying				
Streamers	DT_ST	Thu 25. Jun 23:27	Thu 25. Jun 24:00	0.550
Downtime due to P-Cable streamers - Ramping up Source				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

25-Jun	Hours	% Percent
Acquisition	**14.250**	**59.375**
Prime Line Change	2.167	9.028
Production Prime	12.083	50.347
DownTime	**9.750**	**40.625**
Recording	0.500	2.083
Streamers	9.250	38.542
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**94.467**	**14.058**
Cetacean	8.500	1.265
Nav Systems In-Sea	12.817	1.907
Nav Systems Onboard	0.067	0.010
Prime Extended L/C	1.700	0.253
Recording	10.467	1.558
Source	14.167	2.108

Category	Hours	% Percent
Streamers	46.500	6.920
Vessel	0.250	0.037
Acquisition	**461.683**	**68.703**
Infill Line Change	6.583	0.980
Prime Extended L/C	1.133	0.169
Prime Line Change	61.850	9.204
Production Infill	7.867	1.171
Production Prime	384.250	57.180
Mobilisation	**115.850**	**17.240**
Mob Ashore	84.833	12.624
Reconfiguration	13.300	1.979
Testing	6.983	1.039
Transit to Prospect	10.733	1.597
Total	672.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 25 Jun

Navigation:
Stbd Barovane GPS still down. Long Offset Tailbuoy GPS is intermittent. One Nav-Point Lockup during Line MGL15101324 after a P-Cable system lockup.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
the P-Cable Recording System locked up a number of times during the day. After the last lock on Line MGL15102116 it was decided that the in-water equipment should be recovered as communication with Streamers 10, 13, and 16 had been lost. On Recovery it was found that Streamers 13 and 16 had been lost at sea and streamer 10 was being towed off it's jumper cable. All failures are as a result of the digitizer's bale failing. LOST AT SEA: Streamer 13 S/N: GS0529, Digitizer 13 S/N: DG01696, and Tail Compass 13 S/N: 8086... LOST AT SEA Streamer 13 S/N: GS0517, Digitizer 13 S/N: DG01885, and Tail Compass 13 S/N: 8097

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Thu 25 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

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Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

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Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Thu 25 Jun	Marcus G Langseth	67 - 69	96.76
Total Production:			**96.76**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	96.76	583.21	2660.71	2660.71
Infill	0.00	0.00	160.19	160.19
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	0.00	0.00	226.75	226.75
Combined	**96.76**	**583.21**	**3057.52**	**3057.52**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
67	MGL15102164	304.4	4859	5137	Prime	3.49	4.434	Complete	Complete
68	MGL15101324	124.4	5131	865	Prime	52.58	4.407	Complete	Complete
NTBP: 3590 - 3530									
69	MGL15102116	304.4	1286	4541	Prime	40.70	4.145	Complete	Complete
NTBP: 885 - 1285, NTBP: 4542 - 4671									
Total						**96.76**			

Survey Progress (NJ3D)

Percentage of Prime Charged

73%

Prime Lines Completed

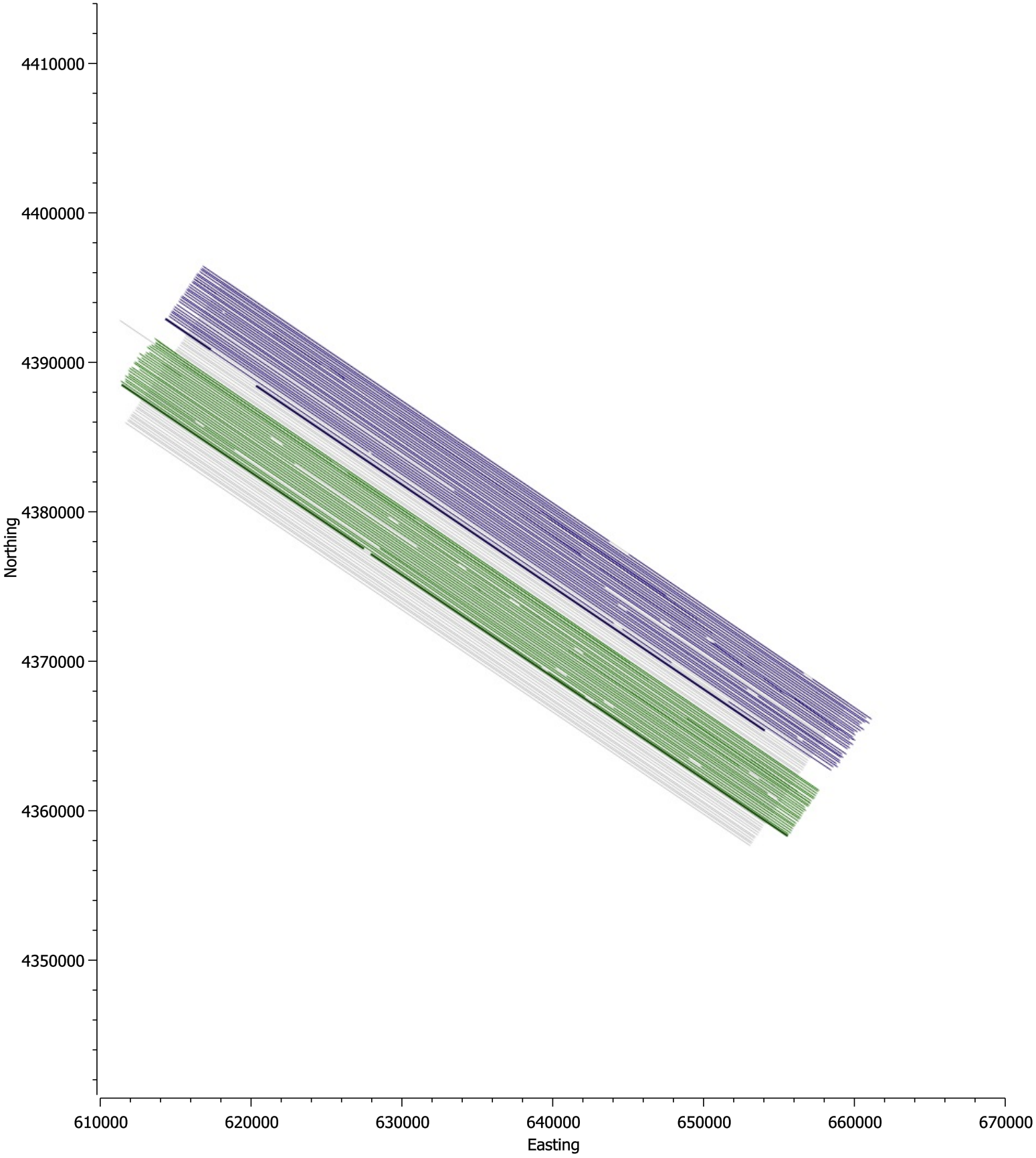
71%

Preplot Lines	Complete	Incomplete	Pending
79	56	0	0

Percentages Charged	
Prime	72.78% of 3935.19 km (Full fold)
Infill	5.94% of Charged Prime km (Sail Line)
	4.30% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	127.40 km
Average Charged Daily Prime and Infill Production	126.43 km

NJ3D: Accpt (5/29/2015 - 6/25/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Fri 26 Jun

The Vessel started the day in Production. Data was acquired on lines MGL1510-2068, 1300, & 2020. During Line MGL15102020 the P-Cable System developed communication issues which required the in water equipment to be recovered. The P-Cable System was recovered to Streamer 1, the interconnect cable at position 1 was replaced and the generator was also replaced on the stbd tri-point. The re-deployment began of the P-Cable System began at 21:30 UTC . At 23:51 UTC the P-Cable system was fully deployed and the source deployment began at 23:56 UTC and continued throughout the rest of the day.

Daily Comment Summaries - Plan for Tomorrow

Fri 26 Jun

The vessel will start the day finish with the re-deployment of the in water towed equipment. Once back in production it should remain this way throughout the rest of the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Streamers	DT_ST	Fri 26. Jun 00:00	Fri 26. Jun 01:06	1.100
Downtime due to P-Cable streamers - Ramping up Source				
Production Prime	AC_PP	Fri 26. Jun 01:06	Fri 26. Jun 07:32	6.433
SOL Seq 70 MGL15102068 FGSP=873 FCSP=873 Hdg=304.4° Prime EOL Seq 70 MGL15102068 LGSP=5137 LCSP=5137 Complete SOL Feather=-2.9° SOL Water Depth=53m				
Prime Line Change	AC_PLC	Fri 26. Jun 07:32	Fri 26. Jun 08:45	1.217
Nominal Prime line change.				
Production Prime	AC_PP	Fri 26. Jun 08:45	Fri 26. Jun 11:14	2.483

Category	Code	Start	End	Duration
SOL Seq 71 MGL15101300 FGSP=5134 FCSP=5134 Hdg=124.4° Prime EOL Seq 71 MGL15101300 LGSP=3490 LCSP=3490 Incomplete SOL Feather=48.5° SOL Water Depth=22.4m				
Streamers	DT_ST	Fri 26. Jun 11:14	Fri 26. Jun 11:53	0.650
NTBP Seq 71 FSP=3489 LSP=3082 P-Cable Failure				
Production Prime	AC_PP	Fri 26. Jun 11:53	Fri 26. Jun 15:16	3.383
SOL Seq 71 MGL15101300 FGSP=3081 FCSP=3081 Hdg=124.4° Prime EOL Seq 71 MGL15101300 LGSP=865 LCSP=865 Complete EOL Feather=2.1° EOL Water Depth=55.5m				
Prime Line Change	AC_PLC	Fri 26. Jun 15:16	Fri 26. Jun 16:15	0.983
Nominal Prime line change.				
Production Prime	AC_PP	Fri 26. Jun 16:15	Fri 26. Jun 16:31	0.267
SOL Seq 72 MGL15102020 FGSP=872 FCSP=872 Hdg=304.4° Prime EOL Seq 72 MGL15102020 LGSP=1056 LCSP=1056 Complete SOL Feather=52.7° SOL Water Depth=53.4m EOL Feather=0.2° EOL Water Depth=35.4m				
Streamers	DT_ST	Fri 26. Jun 16:31	Fri 26. Jun 17:33	1.033
Downtime due to streamers. Troubleshooting P-Cable system. EEOL Seq 72				
Streamers	DT_ST	Fri 26. Jun 17:33	Fri 26. Jun 17:58	0.417
Downtime due to P-Cable streamers - Picking up the Source and PAM. Turing offshore to recover Streamer Equipment				
Streamers	DT_ST	Fri 26. Jun 17:58	Fri 26. Jun 19:47	1.817
Downtime due to P-Cable streamers - P-Cable Up to Streamer 1.				
Streamers	DT_ST	Fri 26. Jun 19:47	Fri 26. Jun 21:30	1.717
Changed out interconnect cable at position #1				
Streamers	DT_ST	Fri 26. Jun 21:30	Fri 26. Jun 23:51	2.350
Downtime due to P-Cable streamers - Re-Deploying				
Streamers	DT_ST	Fri 26. Jun 23:51	Fri 26. Jun 24:00	0.150
Downtime due to P-Cable streamers -Depoying Sub-array				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

26-Jun	Hours	% Percent
Acquisition	**14.767**	**61.528**
Prime Line Change	2.200	9.167
Production Prime	12.567	52.361
DownTime	**9.233**	**38.472**
Streamers	9.233	38.472
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**103.700**	**14.899**
Cetacean	8.500	1.221

Category	Hours	% Percent
Nav Systems In-Sea	12.817	1.841
Nav Systems Onboard	0.067	0.010
Prime Extended L/C	1.700	0.244
Recording	10.467	1.504
Source	14.167	2.035
Streamers	55.733	8.008
Vessel	0.250	0.036
Acquisition	**476.450**	**68.455**
Infill Line Change	6.583	0.946
Prime Extended L/C	1.133	0.163
Prime Line Change	64.050	9.203
Production Infill	7.867	1.130
Production Prime	396.817	57.014
Mobilisation	**115.850**	**16.645**
Mob Ashore	84.833	12.189
Reconfiguration	13.300	1.911
Testing	6.983	1.003
Transit to Prospect	10.733	1.542
Total	696.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 26 Jun

Navigation:
Stbd Barovane dGPS still down. Port dGPS is working but not charging very well. The stbd Tri-point generator was replaced due to a large cut in the wiring. Long Offset Tailbuoy GPS is intermittent.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
The P-Cable Recording System locked up a number of times again during the day. After the last lock on Line MGL15102020 it was decided that the in-water equipment should be recovered. We are seeing telemetry problems. We picked up the P-cables and replaced the interconnect cable on position #1 which had been damage and re-deployed the gear. Telemetry issue with P-cable system continue. Streamer section #16 had been disabled and sample rate was changed 1 ms. There is some intermittent electrical leakage apparent on the system as well..

Towing and Handling (Source):
Picked up source array and swapped out elements 9 and 10 for an air leak at the solenoid on line change for Seq 70.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No new damage to bales reported.

Daily Comment Summaries - Personnel Onboard

Fri 26 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
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Schmitt Amy Katherine Contract RPS PSO

Science Party
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Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Fri 26 Jun	Marcus G Langseth	70 - 72	103.90
Total Production:			**103.90**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	103.90	687.11	2764.61	2764.61
Infill	0.00	0.00	160.19	160.19
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	0.00	0.00	226.75	226.75
Combined	**103.90**	**687.11**	**3161.42**	**3161.42**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
70	MGL15102068	304.4	873	5137	Prime	53.31	4.474	Complete	Complete
71	MGL15101300	124.4	5134	865	Prime	48.28	4.444	Complete	Complete
NTBP: 3489 - 3082									
72	MGL15102020	304.4	872	1056	Prime	2.31	4.657	Complete	Complete
NTBP: 1057 - 1636									
Total						**103.90**			

Survey Progress (NJ3D)

Percentage of Prime Charged

75%

Prime Lines Completed

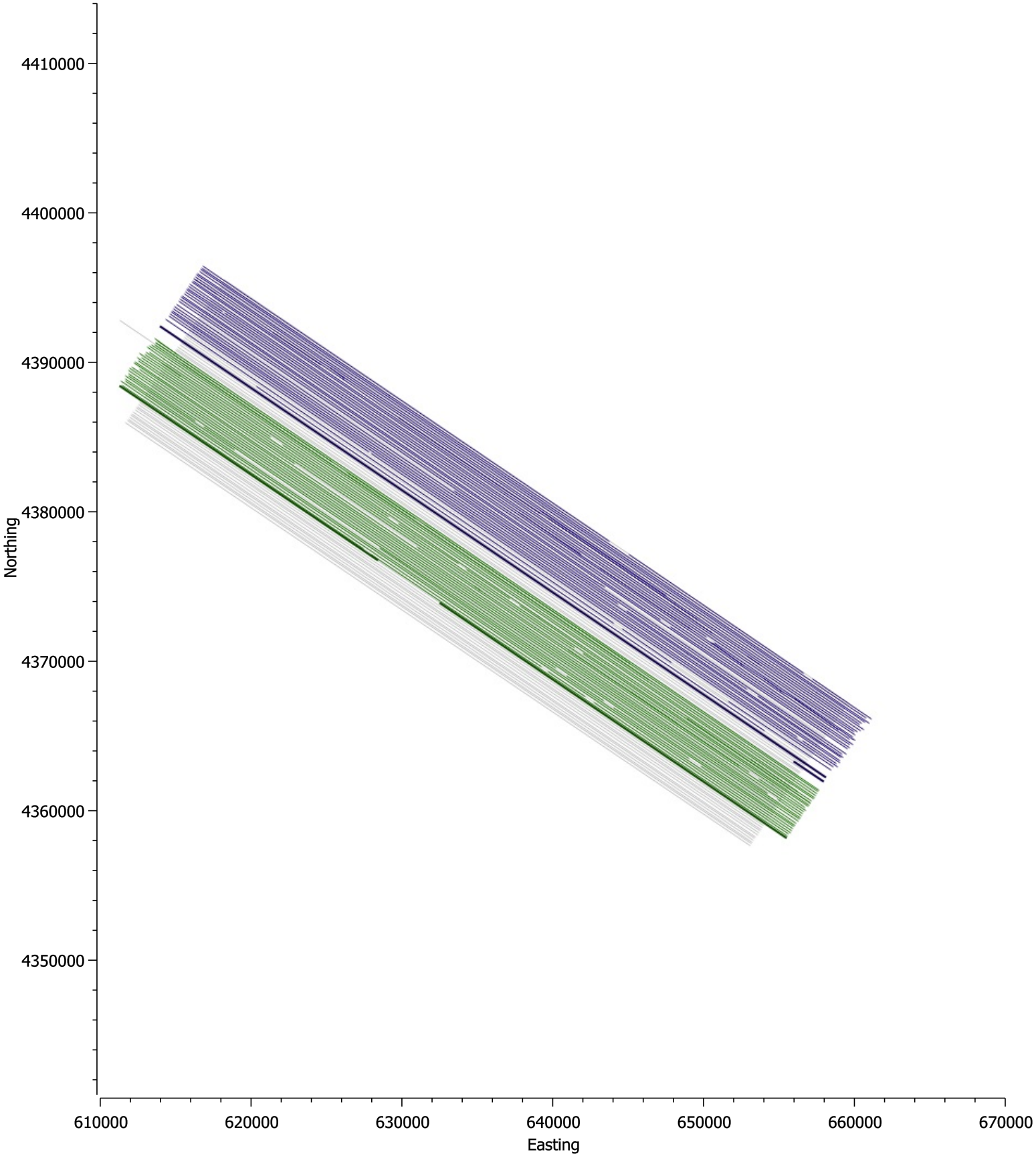
75%

Preplot Lines	Complete	Incomplete	Pending
79	59	0	0

Percentages Charged	
Prime	75.42% of 3935.19 km (Full fold)
Infill	5.73% of Charged Prime km (Sail Line)
	4.30% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	126.46 km
Average Charged Daily Prime and Infill Production	125.52 km

NJ3D: Accpt (5/29/2015 - 6/26/2015)



Daily Science Report

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sat 27 Jun

The Vessel started the day in running into line after repairing the P-Cable. The vessel resumed production at 01:05 UTC an continued in this mode throughout the rest of the day. Data was acquired on lines MGL1510-1267, 2020R & 1252.

Daily Comment Summaries - Plan for Tomorrow

Sat 27 Jun

The vessel will should remain in production throughout the rest of the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Streamers	DT_ST	Sat 27. Jun 00:00	Sat 27. Jun 01:05	1.083
Downtime due to streamers - P-Cable Interconnect Cable Failure between Signal Cable and J-Box #1. Running into line				
Production Prime	AC_PP	Sat 27. Jun 01:05	Sat 27. Jun 07:51	6.767
SOL Seq 73 MGL15101276 FGSP=5105 FCSP=5105 Hdg=124.4° Prime EOL Seq 73 MGL15101276 LGSP=865 LCSP=865 Complete SOL Feather=43.4° SOL Water Depth=20.5m EOL Feather=1.6° EOL Water Depth=55.3m				
Prime Line Change	AC_PLC	Sat 27. Jun 07:51	Sat 27. Jun 08:53	1.033
Nominal Prime line change.				
Production Prime	AC_PP	Sat 27. Jun 08:53	Sat 27. Jun 08:54	0.017
SOL Seq 74 MGL15102020R FGSP=866 FCSP=866 Hdg=304.4° Prime EOL Seq 74 MGL15102020R LGSP=871 LCSP=871 Complete				

Category	Code	Start	End	Duration
SOL Feather=48.7° SOL Water Depth=53.1m				
Production Infill	AC_PI	Sat 27. Jun 08:54	Sat 27. Jun 09:10	0.267
SOL Seq 74 MGL15102020R FGSP=872 FCSP=872 Hdg=304.4° Infill EOL Seq 74 MGL15102020R LGSP=1056 LCSP=1056 Complete				
Production Prime	AC_PP	Sat 27. Jun 09:10	Sat 27. Jun 10:03	0.883
SOL Seq 74 MGL15102020R FGSP=1057 FCSP=1057 Hdg=304.4° Prime EOL Seq 74 MGL15102020R LGSP=1636 LCSP=1636 Complete				
Production Prime	AC_PP	Sat 27. Jun 10:03	Sat 27. Jun 15:39	5.600
SOL Seq 74 MGL15102020R FGSP=1637 FCSP=1637 Hdg=304.4° Prime EOL Seq 74 MGL15102020R LGSP=5137 LCSP=5137 Complete EOL Feather=1.1° EOL Water Depth=21.6m				
Prime Line Change	AC_PLC	Sat 27. Jun 15:39	Sat 27. Jun 16:43	1.067
Nominal Prime line change.				
Production Prime	AC_PP	Sat 27. Jun 16:43	Sat 27. Jun 23:23	6.667
SOL Seq 75 MGL15101252 FGSP=5130 FCSP=5130 Hdg=304.4° Prime EOL Seq 75 MGL15101252 LGSP=865 LCSP=865 Complete SOL Feather=36.6° SOL Water Depth=20.8m EOL Feather=2.3° EOL Water Depth=26.5m				
Prime Line Change	AC_PLC	Sat 27. Jun 23:23	Sat 27. Jun 24:00	0.617
Nominal Prime line change.				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

27-Jun	Hours	% Percent
Acquisition	**22.917**	**95.486**
Prime Line Change	2.717	11.319
Production Infill	0.267	1.111
Production Prime	19.933	83.056
DownTime	**1.083**	**4.514**
Streamers	1.083	4.514
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**104.783**	**14.553**
Cetacean	8.500	1.181
Nav Systems In-Sea	12.817	1.780
Nav Systems Onboard	0.067	0.009
Prime Extended L/C	1.700	0.236
Recording	10.467	1.454
Source	14.167	1.968
Streamers	56.817	7.891
Vessel	0.250	0.035
Acquisition	**499.367**	**69.356**

Category	Hours	% Percent
Infill Line Change	6.583	0.914
Prime Extended L/C	1.133	0.157
Prime Line Change	66.767	9.273
Production Infill	8.133	1.130
Production Prime	416.750	57.882
Mobilisation	**115.850**	**16.090**
Mob Ashore	84.833	11.782
Reconfiguration	13.300	1.847
Testing	6.983	0.970
Transit to Prospect	10.733	1.491
Total	720.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 27 Jun

Navigation:
Stbd Barovane dGPS still down. Port dGPS is working but not charging very well.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No new damage to bales reported.

Daily Comment Summaries - Personnel Onboard

Sat 27 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
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Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sat 27 Jun	Marcus G Langseth	73 - 75	159.74
Total Production:			**159.74**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	150.18	837.29	2914.79	2914.79
Infill	2.31	2.31	162.50	162.50
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	7.25	7.25	234.00	234.00
Combined	**159.74**	**846.85**	**3321.16**	**3321.16**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
73	MGL15101276	124.4	5105	865	Prime	53.01	4.229	Complete	Complete
74	MGL15102020R	304.4	866	871	Prime	0.08	2.025	Complete	Complete
74	MGL15102020R	304.4	872	1056	Infill	2.31	4.657	Complete	Complete
74	MGL15102020R	304.4	1057	1636	Prime, Reshoot	7.25	4.424	Complete	Complete
74	MGL15102020R	304.4	1637	5137	Prime	43.76	4.218	Complete	Complete
75	MGL15101252	304.4	5130	865	Prime	53.33	4.318	Complete	Complete
Total						**159.74**			

Survey Progress (NJ3D)

Percentage of Prime Charged

79%

Prime Lines Completed

77%

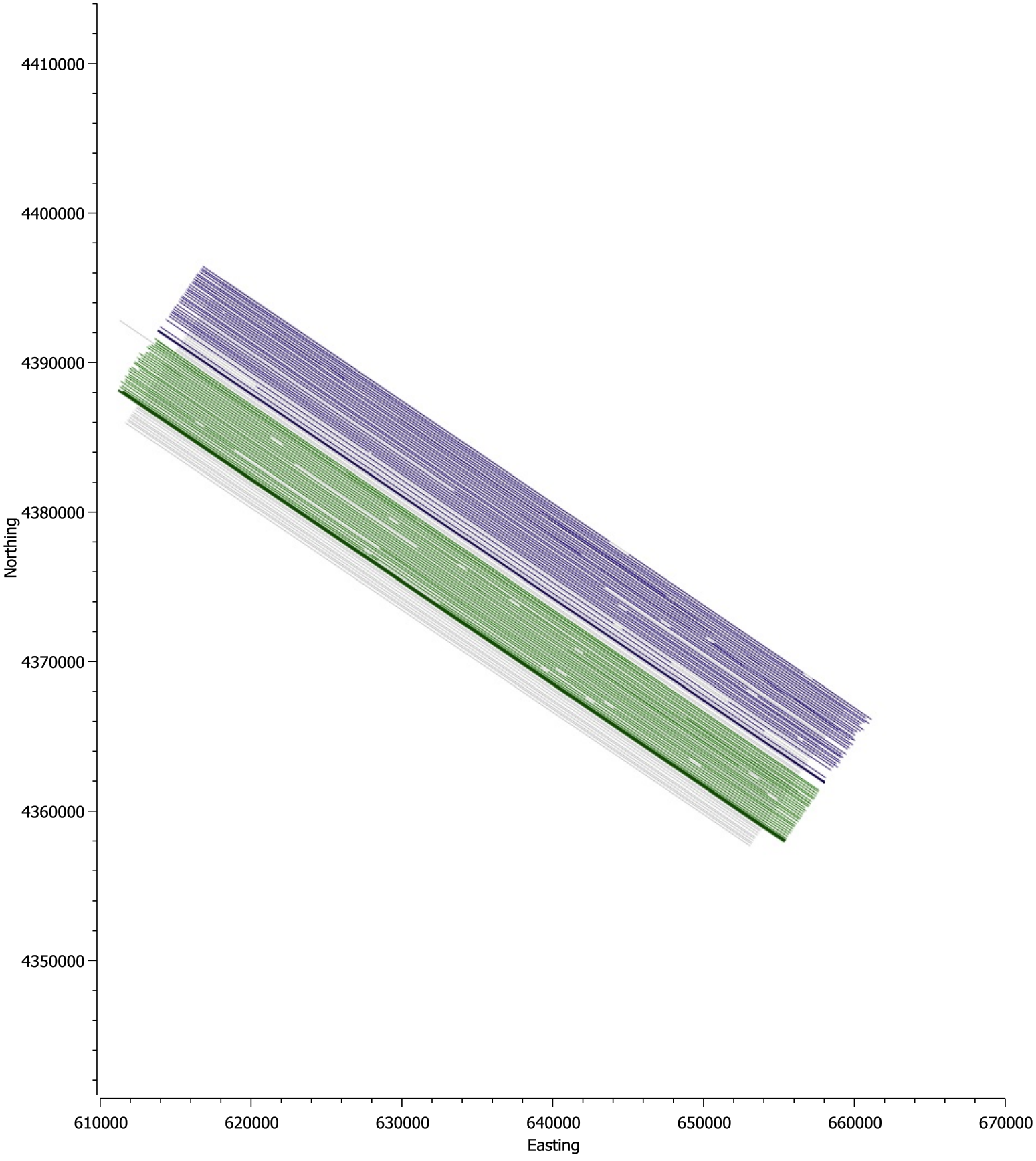
Preplot Lines	Complete	Incomplete	Pending
79	61	0	0

Percentages Charged	
Prime	79.42% of 3935.19 km (Full fold)
Infill	5.52% of Charged Prime km (Sail Line)
	4.36% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	127.74 km

Average Daily Production	
Average Charged Daily Prime and Infill Production	126.84 km

NJ3D: Accpt (5/29/2015 - 6/27/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

28 Jun 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sun 28 Jun

The vessel was in production the majority of the day. Data was acquired on lines MGL1510-1996, 1228, 2188 & 1204. The weather and sea state was marginal. The long offset streamer was set down one meter to 6.5 meters depth due to the sea state. At 23:22 UTC Communication with P-Cable in water equipment was lost. System is still powered up but there are no Comms to the J-Boxes or streamers. This is very similar to the issue we had a couple of days ago, which ended up being the interconnect cable from the Signal Cable to J-Box 1. It was decided to continue down line acquiring Long Offset Data

Daily Comment Summaries - Plan for Tomorrow

Sun 28 Jun

The vessel started the day in production on MGL15101204. The P-Cable System had lost communication with J-Boxes, but it was decided due to the time of darkness setting in the vessel would continue down line acquiring Long Offset data. Once the vessel reaches the end of the current line which will be ~06:00 UTC all Towed equipment will be recovered. The P-Cable will be recovered first and while repairs are being made, the Long Offset Streamer will be recovered. Once the Long Offset is onboard the P-Cable system will be re-deployed and the vessel will re-start production.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Prime Line Change	AC_PLC	Sun 28. Jun 00:00	Sun 28. Jun 00:23	0.383
Nominal Prime line change.				
Production Prime	AC_PP	Sun 28. Jun 00:23	Sun 28. Jun 06:48	6.417
SOL Seq 76 MGL15101996 FGSP=873 FCSP=873 Hdg=304.4° Prime EOL Seq 76 MGL15101996 LGSP=5137 LCSP=5137 Complete EOL Feather=5.6° EOL Water Depth=22.6m				
Prime Line Change	AC_PLC	Sun 28. Jun 06:48	Sun 28. Jun 07:50	1.033

Category	Code	Start	End	Duration
Nominal Prime line change.				
Production Prime	AC_PP	Sun 28. Jun 07:50	Sun 28. Jun 14:22	6.533
SOL Seq 77 MGL15101228 FGSP=5135 FCSP=5135 Hdg=124.4° Prime EOL Seq 77 MGL15101228 LGSP=865 LCSP=865 Complete SOL Feather=-46.5° SOL Water Depth=21m EOL Feather=7.3° EOL Water Depth=55.1m				
Prime Line Change	AC_PLC	Sun 28. Jun 14:22	Sun 28. Jun 15:33	1.183
Nominal Prime line change.				
Production Prime	AC_PP	Sun 28. Jun 15:33	Sun 28. Jun 19:20	3.783
SOL Seq 78 MGL15102188 FGSP=857 FCSP=857 Hdg=304.4° Prime EOL Seq 78 MGL15102188 LGSP=3438 LCSP=3438 Incomplete				
Cetacean	DT_CT	Sun 28. Jun 19:20	Sun 28. Jun 19:26	0.100
NTBP Seq 78 FSP=3439 LSP=3502 - Power down for PSO Sighting				
Production Prime	AC_PP	Sun 28. Jun 19:26	Sun 28. Jun 21:59	2.550
SOL Seq 78 MGL15102188 FGSP=3503 FCSP=3503 Hdg=304.4° Prime EOL Seq 78 MGL15102188 LGSP=5137 LCSP=5137 Complete EOL Feather=-2.2° EOL Water Depth=24.3m				
Prime Line Change	AC_PLC	Sun 28. Jun 21:59	Sun 28. Jun 23:12	1.217
Nominal Prime line change.				
Production Prime	AC_PP	Sun 28. Jun 23:12	Sun 28. Jun 23:22	0.167
MGL15101204				
Production Prime	AC_PP	Sun 28. Jun 23:22	Sun 28. Jun 24:00	0.633
Continue down line MGL15101204 - Acquiring 2D data - after P-Cable Signal Cable Failure.				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

28-Jun	Hours	% Percent
Acquisition	**23.900**	**99.583**
Prime Line Change	3.817	15.903
Production Prime	20.083	83.681
DownTime	**0.100**	**0.417**
Cetacean	0.100	0.417
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**104.883**	**14.097**
Cetacean	8.600	1.156
Nav Systems In-Sea	12.817	1.723
Nav Systems Onboard	0.067	0.009
Prime Extended L/C	1.700	0.228
Recording	10.467	1.407
Source	14.167	1.904
Streamers	56.817	7.637
Vessel	0.250	0.034

Category	Hours	% Percent
Acquisition	**523.267**	**70.332**
Infill Line Change	6.583	0.885
Prime Extended L/C	1.133	0.152
Prime Line Change	70.583	9.487
Production Infill	8.133	1.093
Production Prime	436.833	58.714
Mobilisation	**115.850**	**15.571**
Mob Ashore	84.833	11.402
Reconfiguration	13.300	1.788
Testing	6.983	0.939
Transit to Prospect	10.733	1.443
Total	744.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 28 Jun

Navigation:
Stbd Barovane dGPS still down. Port Barovane dGPS has failed during Seq 77.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
Telemetry issue with P-cable system continue. S treamer section #16 is disabled and the sample rate is 1 ms. There is some intermittent electrical leakage apparent on the system as well. At 23:22 UTC Communication with P-Cable in water equipment was lost. System is still powered up but there are no Comms to the J-Boxes or streamers. This is very similar to the issue we had a couple of days ago, which ended up being the interconnect cable from the Signal Cable to J-Box 1.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sun 28 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sun 28 Jun	Marcus G Langseth	76 - 78	159.41
Total Production:			**159.41**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	159.41	996.70	3074.20	3074.20
Infill	0.00	2.31	162.50	162.50
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	0.00	7.25	234.00	234.00
Combined	**159.41**	**1006.26**	**3480.57**	**3480.57**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
76	MGL15101996	304.4	873	5137	Prime	53.31	4.485	Complete	Complete
77	MGL15101228	124.4	5135	865	Prime	53.39	4.411	Complete	Complete
78	MGL15102188	304.4	857	5137	Prime	52.71	4.465	Complete	Complete
NTBP: 3439 - 3502									
Total						**159.41**			

Survey Progress (NJ3D)

Percentage of Prime Charged

83%

Prime Lines Completed

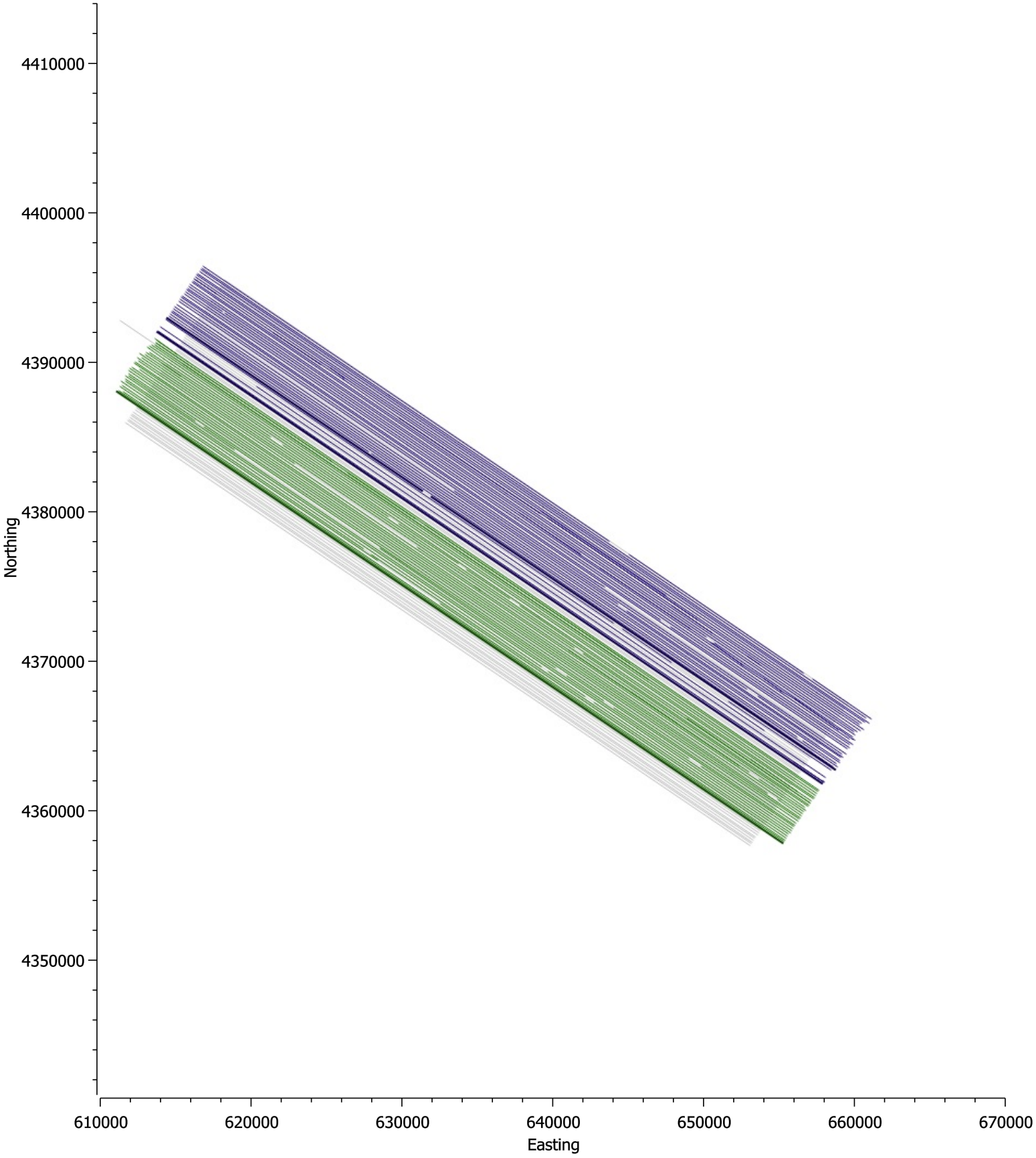
81%

Preplot Lines	Complete	Incomplete	Pending
79	64	0	0

Percentages Charged	
Prime	83.47% of 3935.19 km (Full fold)
Infill	5.25% of Charged Prime km (Sail Line)
	4.36% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	128.91 km
Average Charged Daily Prime and Infill Production	128.05 km

NJ3D: Accpt (5/29/2015 - 6/28/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Mon 29 Jun

There was some 2D data was acquired on line MGL1510-1204. We picked up all of the gear, including the long offset 2-D streamer. The balance of the day was spent troubleshooting the P-cable.

The telemetry issues with the P-cable system continue. We made little progress chasing the trigger line problem today. (SOR Error) We changed out the signal cable, several J-Boxes and various parts while troubleshooting, but have not been able to sort the issue.

Daily Comment Summaries - Plan for Tomorrow

Mon 29 Jun

The vessel started the day in transit to Point Pleasant NJ Sea Buoy in anticipation of getting Geometric Rep and spare parts in order to continue our repairs at first light. The first nine streamers and subsequent electronic gear flagged out on the deck for continued troubleshooting. Hope to have the problem isolated and repaired in order to begin re-deployment of the equipment and start production.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Streamers	DT_ST	Mon 29. Jun 00:00	Mon 29. Jun 05:44	5.733
NTBP Seq 79 FSP=4615 LSP=865 No-Communication with P-Cable System - Continued down line Acquiring 2D Data				
Streamers	DT_ST	Mon 29. Jun 05:44	Mon 29. Jun 06:21	0.617
Downtime due to streamers No-Communication with P-Cable System Recovering Source and PAM				
Streamers	DT_ST	Mon 29. Jun 06:21	Mon 29. Jun 08:23	2.033
Downtime due to streamers - No-Communication with P-Cable System Recovering it.				
Recovery	DM_RC	Mon 29. Jun 08:23	Mon 29. Jun 11:01	2.633
Demobilising offshore, recovering Long Offset Streamer				

Category	Code	Start	End	Duration
Streamers	DT_ST	Mon 29. Jun 11:01	Mon 29. Jun 12:30	1.483
Downtime due to streamers - All Gear onboard - Changing out Signal Cable, Making repairs to other equipment at needed.				
Streamers	DT_ST	Mon 29. Jun 12:30	Mon 29. Jun 24:00	11.500
Deploying P-Cable Equipment Trouble shooting Trigger issues, as well leakage issues.				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

29-Jun	Hours	% Percent
Demobilisation	**2.633**	**10.972**
Recovery	2.633	10.972
DownTime	**21.367**	**89.028**
Streamers	21.367	89.028
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**126.883**	**16.521**
Cetacean	8.600	1.120
Nav Systems In-Sea	12.817	1.669
Nav Systems Onboard	0.067	0.009
Prime Extended L/C	1.700	0.221
Recording	10.467	1.363
Source	14.167	1.845
Streamers	78.817	10.263
Vessel	0.250	0.033
Acquisition	**522.633**	**68.051**
Infill Line Change	6.583	0.857
Prime Extended L/C	1.133	0.148
Prime Line Change	70.583	9.191
Production Infill	8.133	1.059
Production Prime	436.200	56.797
Mobilisation	**115.850**	**15.085**
Mob Ashore	84.833	11.046
Reconfiguration	13.300	1.732
Testing	6.983	0.909
Transit to Prospect	10.733	1.398
Demobilisation	**2.633**	**0.343**
Recovery	2.633	0.343
Total	768.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 29 Jun

Navigation:
Repaired both Stbd Barovane dGPS's. The generators were replaced due to chaffing wires, a missing prop and a plastic bag blocking another.

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
Telemetry issues with P-cable system continue. We made little progress chasing the trigger line problem today. (SOR Error) We changed out the signal cable, a digitizer, tail compass, array jumper, broken bale, and several J-Boxes, but have not been able to sort the core trigger line problem. We have all gear onboard and the first nine streamers and subsequent electronic gear flagged out on the deck for further troubleshooting when the Geometrics Rep arrives onboard in the morning.

Towing and Handling (Source):
Prepared a second sub-array for production.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
The long offset (2D) lead-in showed some wear during recovery indicating it had made contact with the sea floor..

Daily Comment Summaries - Personnel Onboard

Mon 29 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Shehan, Dan - Geometrics Field Service Engineer

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	3075.51	3075.51
Infill	0.00	0.00	162.50	162.50
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	0.00	0.00	234.00	234.00
Combined	**0.00**	**0.00**	**3481.89**	**3481.89**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
79	MGL15101204	124.4	N/A	N/A	Prime	0.00	4.212	Complete	Complete
NTBP: 4615 - 865									
Total						**0.00**			

Survey Progress (NJ3D)

Percentage of Prime Charged

84%

Prime Lines Completed

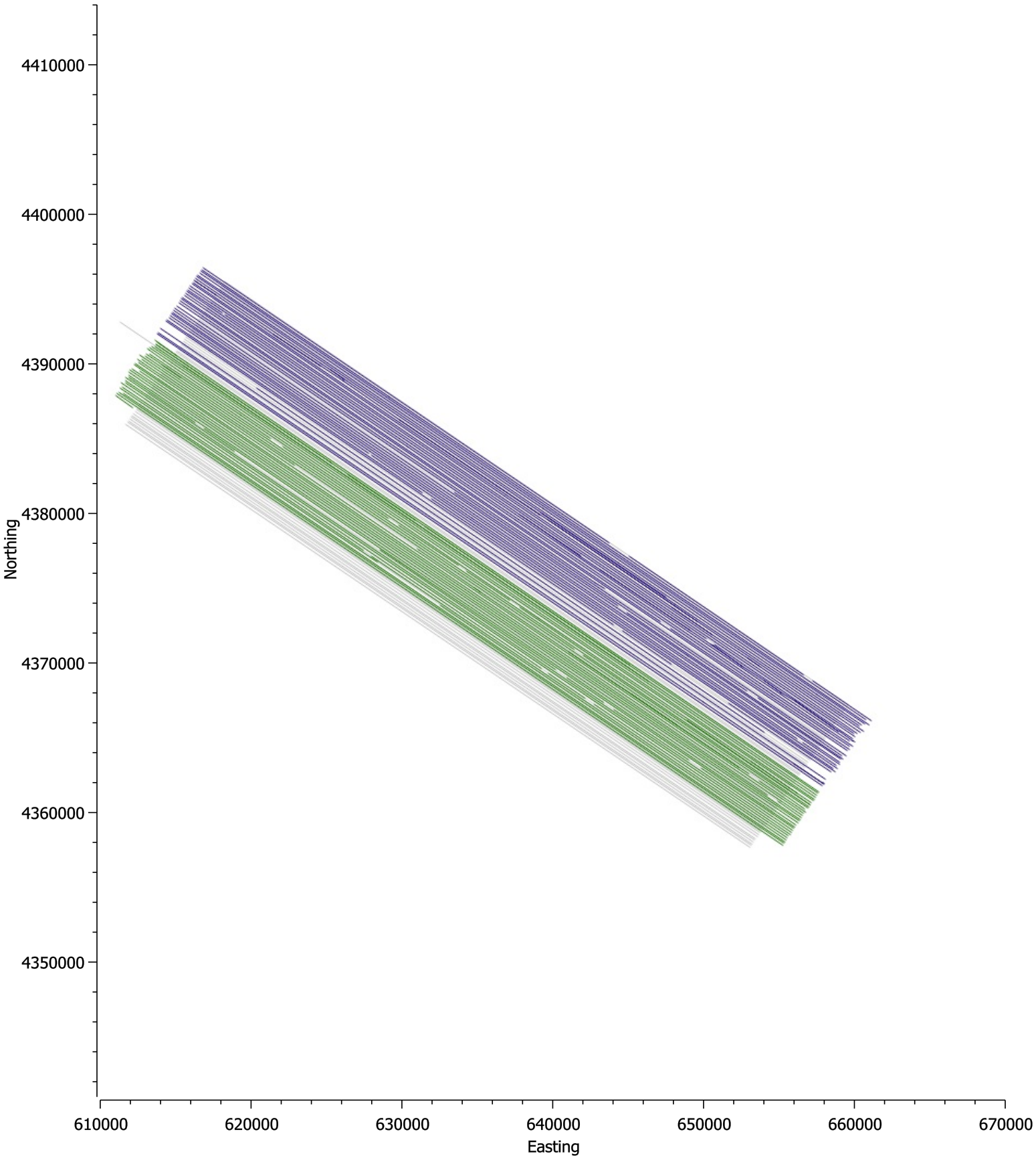
82%

Preplot Lines	Complete	Incomplete	Pending
79	65	0	0

Percentages Charged	
Prime	83.51% of 3935.19 km (Full fold)
Infill	5.25% of Charged Prime km (Sail Line)
	4.36% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	124.35 km
Average Charged Daily Prime and Infill Production	123.52 km

NJ3D: Accpt (5/29/2015 - 6/29/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Tue 30 Jun

The vessel started the day transiting to Point Pleasant, NJ to recovery Dan Shehan (Geometrics Field Service Engineer) and spare parts. Dan and the parts where onboard at ~11:30 UTC and the vessel got underway for the survey area. During the transit trouble shooting continued and after all was said and done the issue turned out to be the brand new signal cable that had been replaced the previous date. The Signal cable was changed again, which leaves no spares onboard, At 17:44 UTC the deployment of the P-Cable system began and by 20:45 UTC all gear was deployed an rampup of the source began.
As soon as source was full volume production began in the MGL15101948. At the end of the day the vessel had completed line MGL15101948 an was on line change.

Daily Comment Summaries - Plan for Tomorrow

Tue 30 Jun

The vessel will should remain in production throughout the rest of the day.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Streamers	DT_ST	Tue 30. Jun 00:00	Tue 30. Jun 11:30	11.500
Downtime due to P-Cable streamers - All Gear onboard. Heading towards Point Pleasant, NJ Sea Buoy to pickup Dan Shehan and spare parts for streamer.				
Streamers	DT_ST	Tue 30. Jun 11:30	Tue 30. Jun 17:44	6.233
Downtime due to P-Cable streamers - All Gear onboard. Heading back towards Survey area. Trouble shooting				
Streamers	DT_ST	Tue 30. Jun 17:44	Tue 30. Jun 20:25	2.683
Downtime due to P-Cable streamers - Completed Repairs on P-Cable Streamer system. Change Signal Cable - Deploying Equipment.				
Streamers	DT_ST	Tue 30. Jun 20:25	Tue 30. Jun 20:45	0.333
Downtime due to P-Cable streamers. Deploying Source and PAM				
Streamers	DT_ST	Tue 30. Jun 20:45	Tue 30. Jun 21:18	0.550

Category	Code	Start	End	Duration
Downtime due to P-Cable streamers - Ramping up Source				
Production Prime	AC_PP	Tue 30. Jun 21:18	Tue 30. Jun 23:51	2.550
SOL Seq 80 MGL15101948 FGSP=2444 FCSP=2444 Hdg=124.4° Prime EOL Seq 80 MGL15101948 LGSP=951 LCSP=951 Complete SOL Feather=0° SOL Water Depth=32.15m EOL Feather=0° EOL Water Depth=67.6m				
Prime Line Change	AC_PLC	Tue 30. Jun 23:51	Tue 30. Jun 24:00	0.150
Nominal Prime line change.				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

30-Jun	Hours	% Percent
Acquisition	**2.700**	**11.250**
Prime Line Change	0.150	0.625
Production Prime	2.550	10.625
DownTime	**21.300**	**88.750**
Streamers	21.300	88.750
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**148.183**	**18.710**
Cetacean	8.600	1.086
Nav Systems In-Sea	12.817	1.618
Nav Systems Onboard	0.067	0.008
Prime Extended L/C	1.700	0.215
Recording	10.467	1.322
Source	14.167	1.789
Streamers	100.117	12.641
Vessel	0.250	0.032
Acquisition	**525.333**	**66.330**
Infill Line Change	6.583	0.831
Prime Extended L/C	1.133	0.143
Prime Line Change	70.733	8.931
Production Infill	8.133	1.027
Production Prime	438.750	55.398
Mobilisation	**115.850**	**14.628**
Mob Ashore	84.833	10.711
Reconfiguration	13.300	1.679
Testing	6.983	0.882
Transit to Prospect	10.733	1.355
Demobilisation	**2.633**	**0.332**
Recovery	2.633	0.332
Total	792.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 30 Jun

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
The majority of the day was spent trouble shooting and re-deploying the P-Cable system. In the end the problem was found to be the brand new signal cable that was installed the day before.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Tue 30 Jun

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Shehan, Dan - Geometrics Field Service Engineer

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Tue 30 Jun	Marcus G Langseth	80	18.68
Total Production:			**18.68**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	18.68	18.68	3094.19	3094.19
Infill	0.00	0.00	162.50	162.50
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	0.00	0.00	234.00	234.00
Combined	**18.68**	**18.68**	**3500.56**	**3500.56**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
80	MGL15101948	124.4	2444	951	Prime	18.68	3.952	Complete	Complete
Total						**18.68**			

Survey Progress (NJ3D)

Percentage of Prime Charged

84%

Prime Lines Completed

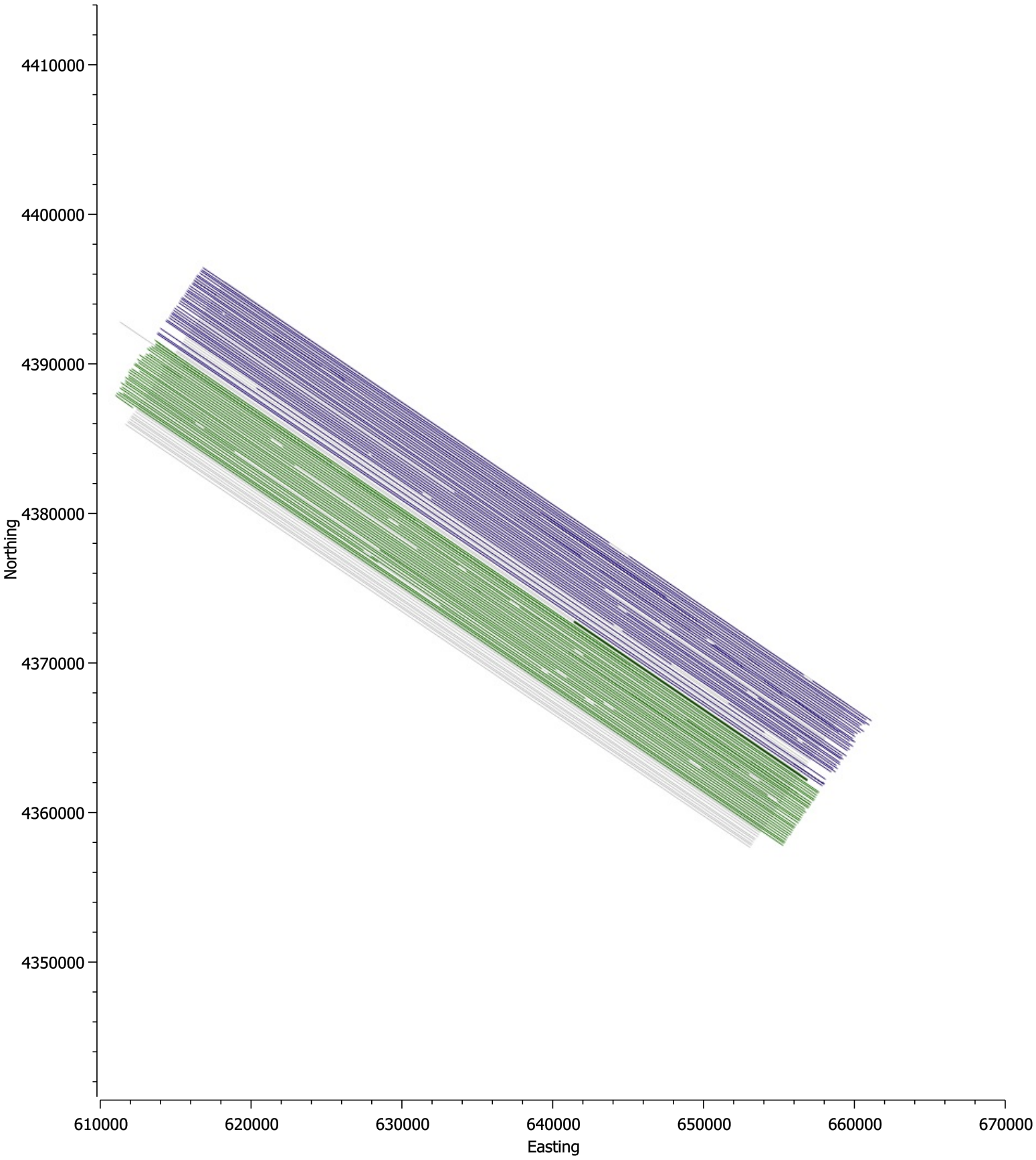
84%

Preplot Lines	Complete	Incomplete	Pending
79	66	0	0

Percentages Charged	
Prime	83.98% of 3935.19 km (Full fold)
Infill	5.22% of Charged Prime km (Sail Line)
	4.36% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	120.71 km
Average Charged Daily Prime and Infill Production	119.90 km

NJ3D: Accpt (5/29/2015 - 6/30/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D

General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Wed 01 Jul

The Vessel was in production throughout the day and data was acquired on lines MGL1510 - 2140, 1972, 2092, and 1470R. There where a couple of Source Power downs for Turtles. The P-Cable Recording system locked up a couple of time which resulted in the loss of data. The NCS In water dGPS pods lost RTCM correction which resulted in a little loss of day.

Daily Comment Summaries - Plan for Tomorrow

Wed 01 Jul

The vessel will should remain in production throughout the day. The Vessel will focus on filling in Prime line in the center of the survey and picking up a Infill/reshoot pass in the souther side of the survey area.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Prime Line Change	AC_PLC	Wed 1. Jul 00:00	Wed 1. Jul 01:09	1.150
Nominal Prime line change.				
Prime Extended L/C	AC_PXL	Wed 1. Jul 01:09	Wed 1. Jul 01:33	0.400
Extended Prime line change due to Nav				
Production Prime	AC_PP	Wed 1. Jul 01:33	Wed 1. Jul 08:01	6.467
SOL Seq 81 MGL15102140 FGSP=869 FCSP=869 Hdg=304.4° Prime EOL Seq 81 MGL15102140 LGSP=5041 LCSP=5041 Complete SOL Water Depth=52.73m EOL Water Depth=30m				
Prime Line Change	AC_PLC	Wed 1. Jul 08:01	Wed 1. Jul 09:13	1.200
Nominal Prime line change.				

Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 1. Jul 09:13	Wed 1. Jul 15:18	6.083
SOL Seq 82 MGL15101972 FGSP=5135 FCSP=5135 Hdg=124.4° Prime EOL Seq 82 MGL15101972 LGSP=1087 LCSP=1087 Incomplete SOL Feather=0° SOL Water Depth=22.9m				
Cetacean	DT_CT	Wed 1. Jul 15:18	Wed 1. Jul 15:24	0.100
NTBP Seq 82 FSP=1086 LSP=1019 - Power down for PSO Sighting				
Production Prime	AC_PP	Wed 1. Jul 15:24	Wed 1. Jul 15:29	0.083
SOL Seq 82 MGL15101972 FGSP=1018 FCSP=1018 Hdg=124.4° Prime EOL Seq 82 MGL15101972 LGSP=961 LCSP=961 Complete EOL Feather=0° EOL Water Depth=51.9m				
Prime Line Change	AC_PLC	Wed 1. Jul 15:29	Wed 1. Jul 16:46	1.283
Nominal Prime line change.				
Production Prime	AC_PP	Wed 1. Jul 16:46	Wed 1. Jul 16:50	0.067
SOL Seq 83 MGL15102092 FGSP=933 FCSP=933 Hdg=304.4° Prime EOL Seq 83 MGL15102092 LGSP=967 LCSP=967 Incomplete SOL Feather=0° SOL Water Depth=52.18m				
Recording	DT_RC	Wed 1. Jul 16:50	Wed 1. Jul 16:56	0.100
NTBP Seq 83 FSP=968 LSP=1027 -P-Cable recording system lockup				
Production Prime	AC_PP	Wed 1. Jul 16:56	Wed 1. Jul 17:20	0.400
SOL Seq 83 MGL15102092 FGSP=1028 FCSP=1028 Hdg=304.4° Prime EOL Seq 83 MGL15102092 LGSP=1257 LCSP=1257 Incomplete				
Cetacean	DT_CT	Wed 1. Jul 17:20	Wed 1. Jul 17:26	0.100
NTBP Seq 83 FSP=1258 LSP=1328 -Power down for PSO Sighting				
Production Prime	AC_PP	Wed 1. Jul 17:26	Wed 1. Jul 22:34	5.133
SOL Seq 83 MGL15102092 FGSP=1329 FCSP=1329 Hdg=304.4° Prime EOL Seq 83 MGL15102092 LGSP=4692 LCSP=4692 Incomplete				
Nav Systems Onboard	DT_NO	Wed 1. Jul 22:34	Wed 1. Jul 22:43	0.150
NTBP Seq 83 FSP=4693 LSP=4785 - NAVPOINT loss RTCM Correction to in water DGPS				
Production Prime	AC_PP	Wed 1. Jul 22:43	Wed 1. Jul 23:08	0.417
SOL Seq 83 MGL15102092 FGSP=4786 FCSP=4786 Hdg=304.4° Prime EOL Seq 83 MGL15102092 LGSP=5041 LCSP=5041 Complete EOL Feather=0° EOL Water Depth=30.6m				
Prime Line Change	AC_PLC	Wed 1. Jul 23:08	Wed 1. Jul 23:53	0.750
Nominal Prime line change.				
Production Infill	AC_PI	Wed 1. Jul 23:53	Wed 1. Jul 24:00	0.117
MGL15101420R				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

1-Jul	Hours	% Percent
Acquisition	**23.550**	**98.125**
Prime Extended L/C	0.400	1.667
Prime Line Change	4.383	18.264
Production Infill	0.117	0.486

1-Jul	Hours	% Percent
Production Prime	18.650	77.708
DownTime	**0.450**	**1.875**
Cetacean	0.200	0.833
Nav Systems Onboard	0.150	0.625
Recording	0.100	0.417
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**148.633**	**18.215**
Cetacean	8.800	1.078
Nav Systems In-Sea	12.817	1.571
Nav Systems Onboard	0.217	0.027
Prime Extended L/C	1.700	0.208
Recording	10.567	1.295
Source	14.167	1.736
Streamers	100.117	12.269
Vessel	0.250	0.031
Acquisition	**548.883**	**67.265**
Infill Line Change	6.583	0.807
Prime Extended L/C	1.533	0.188
Prime Line Change	75.117	9.205
Production Infill	8.250	1.011
Production Prime	457.400	56.054
Mobilisation	**115.850**	**14.197**
Mob Ashore	84.833	10.396
Reconfiguration	13.300	1.630
Testing	6.983	0.856
Transit to Prospect	10.733	1.315
Demobilisation	**2.633**	**0.323**
Recovery	2.633	0.323
Total	816.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 01 Jul

Navigation:
During Seq 83 - The NCS In water GPS units lost all RTCM correction for ~100 Shot Points. The Wifi-Transmitter was re-booted which corrected the issue

Information Technology (IT):
Leap second at midnight UTC affected GPS and Navpoint.

Acquisition (OBS):
There where a couple of Lockup of the P-Cable system during Seq 83. These where attributed to the network slow error. Vessel speed was lowered, system reset and production continued.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 01 Jul

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Shehan, Dan - Geometrics Field Service Engineer

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Wed 1 Jul	Marcus G Langseth	81 - 84	152.99
Total Production:			**152.99**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	152.06	170.74	3246.25	3246.25
Infill	0.93	0.93	163.43	163.43
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	0.00	0.00	234.00	234.00
Combined	**152.99**	**171.66**	**3653.55**	**3653.55**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
81	MGL15102140	304.4	869	5041	Prime	52.16	4.354	Complete	Complete
82	MGL15101972	124.4	5135	961	Prime	51.34	4.554	Complete	Complete
NTBP: 1086 - 1019									
83	MGL15102092	304.4	933	5041	Prime	48.56	3.965	Complete	Complete
NTBP: 968 - 1027, NTBP: 1258 - 1328, NTBP: 4693 - 4785									
84	MGL15101420R	124.4	5036	4963	Infill	0.93	4.223	Part	Midnight
Total						**152.99**			

Survey Progress (NJ3D)

Percentage of Prime Charged

88%

Prime Lines Completed

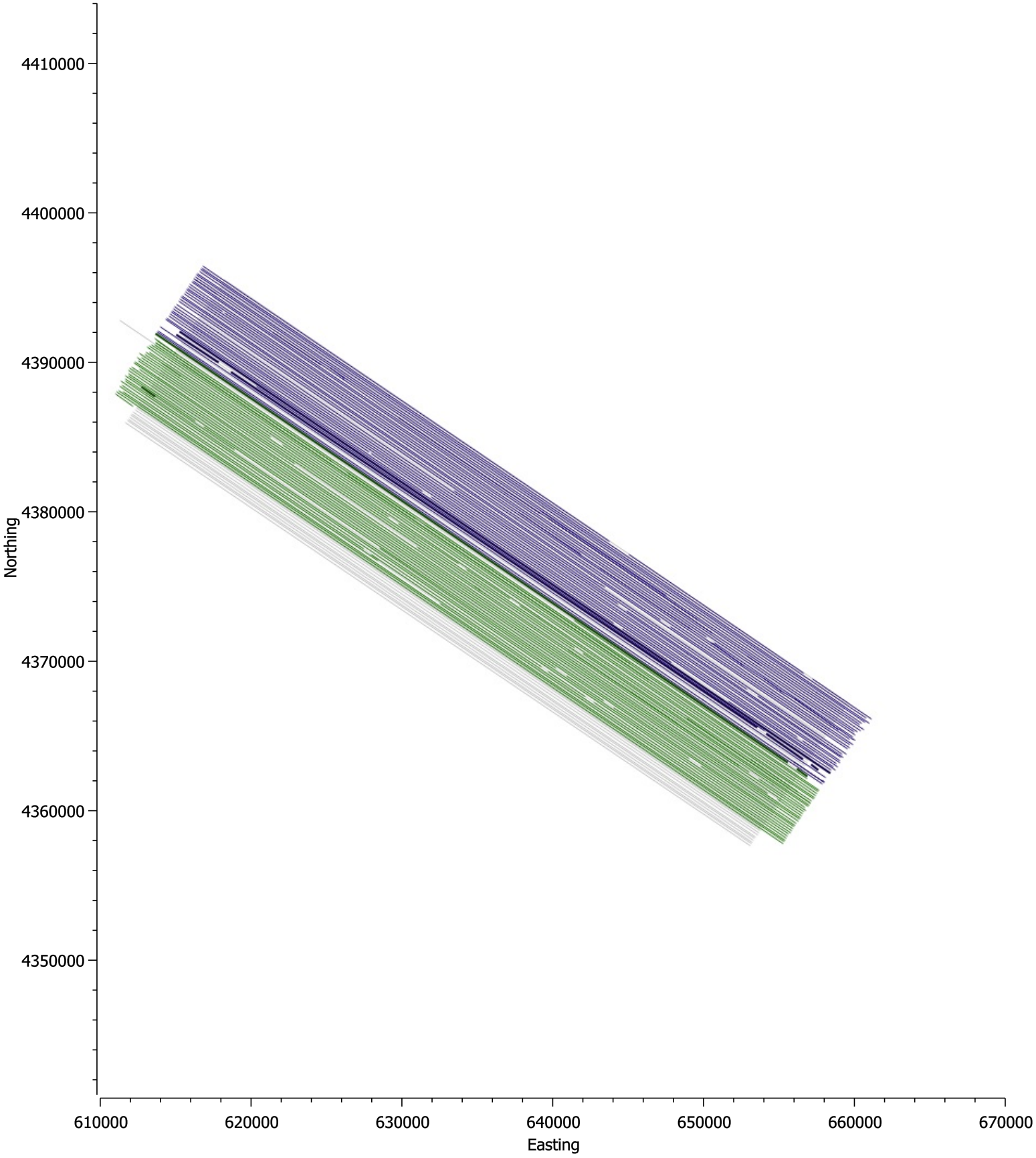
87%

Preplot Lines	Complete	Incomplete	Pending
79	69	0	0

Percentages Charged	
Prime	87.85% of 3935.19 km (Full fold)
Infill	5.01% of Charged Prime km (Sail Line)
	4.39% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	121.79 km
Average Charged Daily Prime and Infill Production	121.01 km

NJ3D: Accpt (5/29/2015 - 7/1/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Thu 02 Jul

The Vessel was in production throughout the day and data was acquired on lines MGL1510 - 1420R, 2044, 1948A, 1300R and 1660R. We had a few small edits due to P-Cable but managed to shoot a lot of prime, reshoot and infill.

Daily Comment Summaries - Plan for Tomorrow

Thu 02 Jul

The vessel will should remain in production throughout the day. The Vessel will focus on picking up a Infill/reshoot passes along with prime passes on the south.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Infill	AC_PI	Thu 2. Jul 00:00	Thu 2. Jul 00:37	0.617
SOL Seq 84 MGL15101420R FGSP=4962 FCSP=4962 Hdg=124.4° Infill EOL Seq 84 MGL15101420R LGSP=4535 LCSP=4535 Incomplete				
Recording	DT_RC	Thu 2. Jul 00:37	Thu 2. Jul 00:44	0.117
NTBP Seq 84 FSP=4534 LSP=4458 - P-Cable Recording System Lockup				
Production Infill	AC_PI	Thu 2. Jul 00:44	Thu 2. Jul 00:45	0.017
SOL Seq 84 MGL15101420R FGSP=4457 FCSP=4457 Hdg=124.4° Infill EOL Seq 84 MGL15101420R LGSP=4453 LCSP=4453 Complete				
Production Prime	AC_PP	Thu 2. Jul 00:45	Thu 2. Jul 02:06	1.350
SOL Seq 84 MGL15101420R FGSP=4452 FCSP=4452 Hdg=124.4° Prime EOL Seq 84 MGL15101420R LGSP=3512 LCSP=3512 Complete				
Production Prime	AC_PP	Thu 2. Jul 02:06	Thu 2. Jul 02:25	0.317
SOL Seq 84 MGL15101420R FGSP=3511 FCSP=3511 Hdg=124.4° Prime				

Category	Code	Start	End	Duration
EOL Seq 84 MGL15101420R LGSP=3298 LCSP=3298 Incomplete				
Recording	DT_RC	Thu 2. Jul 02:25	Thu 2. Jul 02:44	0.317
NTBP Seq 84 FSP=3297 LSP=3112 -P-Cable Recording System Lockup				
Production Prime	AC_PP	Thu 2. Jul 02:44	Thu 2. Jul 02:53	0.150
SOL Seq 84 MGL15101420R FGSP=3111 FCSP=3111 Hdg=124.4° Prime EOL Seq 84 MGL15101420R LGSP=3019 LCSP=3019 Complete				
Production Infill	AC_PI	Thu 2. Jul 02:53	Thu 2. Jul 03:50	0.950
SOL Seq 84 MGL15101420R FGSP=3018 FCSP=3018 Hdg=124.4° Infill EOL Seq 84 MGL15101420R LGSP=2392 LCSP=2392 Complete				
Production Prime	AC_PP	Thu 2. Jul 03:50	Thu 2. Jul 03:57	0.117
SOL Seq 84 MGL15101420R FGSP=2391 FCSP=2391 Hdg=124.4° Prime EOL Seq 84 MGL15101420R LGSP=2313 LCSP=2313 Complete				
Production Infill	AC_PI	Thu 2. Jul 03:57	Thu 2. Jul 04:18	0.350
SOL Seq 84 MGL15101420R FGSP=2312 FCSP=2312 Hdg=124.4° Infill EOL Seq 84 MGL15101420R LGSP=2081 LCSP=2081 Complete				
Production Prime	AC_PP	Thu 2. Jul 04:18	Thu 2. Jul 04:25	0.117
SOL Seq 84 MGL15101420R FGSP=2080 FCSP=2080 Hdg=124.4° Prime EOL Seq 84 MGL15101420R LGSP=2008 LCSP=2008 Complete				
Production Infill	AC_PI	Thu 2. Jul 04:25	Thu 2. Jul 05:10	0.750
SOL Seq 84 1420 FGSP=2007 FCSP=2007 Hdg=124.4° Infill EOL Seq 84 1420 LGSP=1531 LCSP=1531 Complete				
Production Prime	AC_PP	Thu 2. Jul 05:10	Thu 2. Jul 05:15	0.083
SOL Seq 84 MGL15101420R FGSP=1530 FCSP=1530 Hdg=124.4° Prime EOL Seq 84 MGL15101420R LGSP=1475 LCSP=1475 Complete				
Production Infill	AC_PI	Thu 2. Jul 05:15	Thu 2. Jul 05:56	0.683
SOL Seq 84 1420 FGSP=1474 FCSP=1474 Hdg=124.4° Infill EOL Seq 84 1420 LGSP=1044 LCSP=N/A Complete				
Recording	DT_RC	Thu 2. Jul 05:56	Thu 2. Jul 06:01	0.083
NTBP Seq 84 A_A_1420 FSP=1043 - LSP=985 - P-Cable Recording System Lockup				
Infill Line Change	AC_ILC	Thu 2. Jul 06:01	Thu 2. Jul 06:55	0.900
Nominal Infill line change.				
Production Prime	AC_PP	Thu 2. Jul 06:55	Thu 2. Jul 07:01	0.100
SOL Seq 85 MGL15102044 FGSP=865 FCSP=865 Hdg=304.4° Prime EOL Seq 85 MGL15102044 LGSP=931 LCSP=931 Incomplete				
Recording	DT_RC	Thu 2. Jul 07:01	Thu 2. Jul 07:27	0.433
NTBP Seq 85 FSP=932 LSP=1208 - P-Cable Recording System Lockup				
Production Prime	AC_PP	Thu 2. Jul 07:27	Thu 2. Jul 13:47	6.333
SOL Seq 85 MGL15102044 FGSP=1209 FCSP=1209 Hdg=304.4° Prime EOL Seq 85 MGL15102044 LGSP=5041 LCSP=5041 Complete				
Infill Line Change	AC_ILC	Thu 2. Jul 13:47	Thu 2. Jul 14:56	1.150
Nominal Infill line change.				
Production Prime	AC_PP	Thu 2. Jul 14:56	Thu 2. Jul 19:11	4.250
SOL Seq 86 MGL15101948A FGSP=5137 FCSP=5137 Hdg=124.4° Prime EOL Seq 86 MGL15101948A LGSP=2455 LCSP=2455 Complete				
Production Prime	AC_PP	Thu 2. Jul 19:11	Thu 2. Jul 19:12	0.017
SOL Seq 86 MGL15101948A FGSP=2454 FCSP=2454 Hdg=124.4° Prime EOL Seq 86 MGL15101948A LGSP=2444 LCSP=2444 Complete				
Production Infill	AC_PI	Thu 2. Jul 19:12	Thu 2. Jul 19:16	0.067
SOL Seq 86 MGL15101948A FGSP=2443 FCSP=2443 Hdg=124.4° Infill				

Category	Code	Start	End	Duration
EOL Seq 86 MGL15101948A LGSP=2404 LCSP=2404 Complete				
Infill Line Change	AC_ILC	Thu 2. Jul 19:16	Thu 2. Jul 19:52	0.600
Nominal Infill line change.				
Production Infill	AC_PI	Thu 2. Jul 19:52	Thu 2. Jul 20:52	1.000
SOL Seq 87 MGL15101300R FGSP=2385 FCSP=2385 Hdg=304.4° Infill EOL Seq 87 MGL15101300R LGSP=2999 LCSP=2999 Incomplete SOL Water Depth=33.1m				
Operator Error	DT_OP	Thu 2. Jul 20:52	Thu 2. Jul 20:54	0.033
NTBP Seq 87 FSP=3000 LSP=3020 Operator Error				
Production Infill	AC_PI	Thu 2. Jul 20:54	Thu 2. Jul 21:04	0.167
SOL Seq 87 MGL15101300R FGSP=3021 FCSP=3021 Hdg=304.4° Infill EOL Seq 87 MGL15101300R LGSP=3110 LCSP=3110 Complete				
Production Prime	AC_PP	Thu 2. Jul 21:04	Thu 2. Jul 21:21	0.283
SOL Seq 87 MGL15101300R FGSP=3111 FCSP=3111 Hdg=304.4° Prime EOL Seq 87 MGL15101300R LGSP=3298 LCSP=3298 Complete				
Production Infill	AC_PI	Thu 2. Jul 21:21	Thu 2. Jul 21:44	0.383
SOL Seq 87 MGL15101300R FGSP=3299 FCSP=3299 Hdg=304.4° Infill EOL Seq 87 MGL15101300R LGSP=3530 LCSP=3530 Complete				
Production Prime	AC_PP	Thu 2. Jul 21:44	Thu 2. Jul 21:50	0.100
SOL Seq 87 MGL15101300R FGSP=3531 FCSP=3531 Hdg=304.4° Prime EOL Seq 87 MGL15101300R LGSP=3590 LCSP=3590 Complete				
Production Infill	AC_PI	Thu 2. Jul 21:50	Thu 2. Jul 22:26	0.600
SOL Seq 87 MGL15101300R FGSP=3591 FCSP=3591 Hdg=304.4° Infill EOL Seq 87 MGL15101300R LGSP=3972 LCSP=3972 Complete				
Prime Extended L/C	AC_PXL	Thu 2. Jul 22:26	Thu 2. Jul 23:51	1.417
Extended Prime line change.				
Production Prime	AC_PP	Thu 2. Jul 23:51	Thu 2. Jul 24:00	0.150
SOL Seq 88 MGL15101660R FGSP=4533 FCSP=4533 Hdg=124.4° Prime MSP Seq 88 MGL15101660R LGSP=4447 LCSP=4447 Midnight SOL Water Depth=274.2m				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

2-Jul	Hours	% Percent
Acquisition	**23.017**	**95.903**
Infill Line Change	2.650	11.042
Prime Extended L/C	1.417	5.903
Production Infill	5.583	23.264
Production Prime	13.367	55.694
DownTime	**0.983**	**4.097**
Operator Error	0.033	0.139
Recording	0.950	3.958
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**149.617**	**17.812**
Cetacean	8.800	1.048
Nav Systems In-Sea	12.817	1.526
Nav Systems Onboard	0.217	0.026
Operator Error	0.033	0.004
Prime Extended L/C	1.700	0.202
Recording	11.517	1.371
Source	14.167	1.687
Streamers	100.117	11.919
Vessel	0.250	0.030
Acquisition	**571.900**	**68.083**
Infill Line Change	9.233	1.099
Prime Extended L/C	2.950	0.351
Prime Line Change	75.117	8.942
Production Infill	13.833	1.647
Production Prime	470.767	56.044
Mobilisation	**115.850**	**13.792**
Mob Ashore	84.833	10.099
Reconfiguration	13.300	1.583
Testing	6.983	0.831
Transit to Prospect	10.733	1.278
Demobilisation	**2.633**	**0.313**
Recovery	2.633	0.313
Total	840.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 02 Jul

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
P-Cable has been showing communication problems at J-Box #12. We have been able to power cycle the box and restore coms three or four times. We are also seeing network issues in the P-Cables and we're missing the coms to digitizers 13-24 on parts of Seq 84. The Geometric Rep has confirmed that they can make a spare signal cable by cannibalizing from the two previously replaced signal cables if need be.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Thu 02 Jul

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Shehan, Dan - Geometrics Field Service Engineer

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Thu 2 Jul	Marcus G Langseth	84 - 88	149.30
Total Production:			**149.30**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	82.29	253.03	3328.54	3328.54
Infill	44.49	45.41	207.91	207.91
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	22.53	22.53	256.52	256.52
Combined	**149.30**	**320.96**	**3802.85**	**3802.85**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
84	MGL15101420R	124.4	4962	4453	Infill	5.41	3.115	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
84	MGL15101420R	124.4	4452	3512	Prime, Reshoot	11.76	4.700	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
84	MGL15101420R	124.4	3511	3019	Prime, Reshoot	3.84	4.340	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
84	MGL15101420R	124.4	3018	2392	Infill	7.84	4.448	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
84	MGL15101420R	124.4	2391	2313	Prime, Reshoot	0.99	4.512	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
84	MGL15101420R	124.4	2312	2081	Infill	2.90	4.455	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
84	MGL15101420R	124.4	2080	2008	Prime, Reshoot	0.91	4.165	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
84	1420	124.4	2007	1531	Infill	5.96	4.284	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
84	MGL15101420R	124.4	1530	1475	Prime, Reshoot	0.70	4.455	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
84	1420	124.4	1474	1044	Infill	5.39	4.247	Complete	Complete
NTBP: 4534 - 4458, NTBP: 3297 - 3112, NTBP: 1043 - 985									
85	MGL15102044	304.4	865	5041	Prime	48.75	4.269	Complete	Complete
NTBP: 932 - 1208									
86	MGL15101948A	124.4	5137	2455	Prime	33.54	4.259	Complete	Complete
86	MGL15101948A	124.4	2454	2444	Prime, Reshoot	0.14	4.050	Complete	Complete
86	MGL15101948A	124.4	2443	2404	Infill	0.50	3.948	Complete	Complete
87	MGL15101300R	304.4	2385	3110	Infill	8.81	3.874	Complete	Complete
NTBP: 3000 - 3020									
87	MGL15101300R	304.4	3111	3298	Prime, Reshoot	2.35	4.455	Complete	Complete
NTBP: 3000 - 3020									
87	MGL15101300R	304.4	3299	3530	Infill	2.90	4.067	Complete	Complete
NTBP: 3000 - 3020									

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
87	MGL15101300R	304.4	3531	3590	Prime, Reshoot	0.75	3.982	Complete	Complete
NTBP: 3000 - 3020									
87	MGL15101300R	304.4	3591	3972	Infill	4.78	4.286	Complete	Complete
NTBP: 3000 - 3020									
88	MGL15101660R	124.4	4533	4447	Prime, Reshoot	1.09	3.870	Part	Midnight
Total						**149.30**			

Survey Progress (NJ3D)

Percentage of Prime Charged

91%

Prime Lines Completed

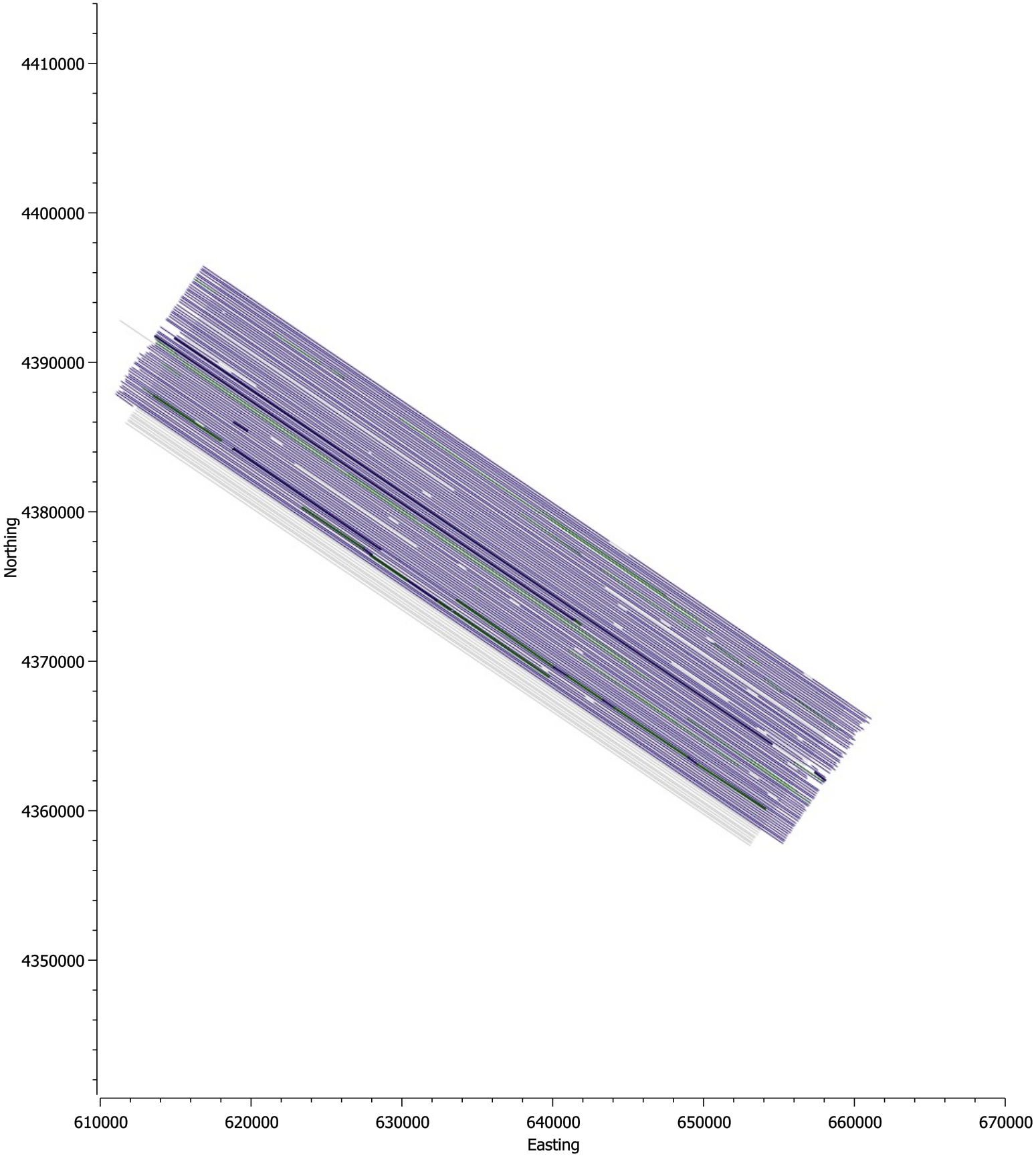
89%

Preplot Lines	Complete	Incomplete	Pending
79	70	0	0

Percentages Charged	
Prime	90.51% of 3935.19 km (Full fold)
Infill	6.14% of Charged Prime km (Sail Line)
	5.53% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	122.67 km
Average Charged Daily Prime and Infill Production	121.94 km

NJ3D: Accpt (5/29/2015 - 7/2/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D

General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Fri 03 Jul

The Vessel was in production throughout the day and data was acquired on lines MGL1510 - 1660R, 2116R, 1204A and 2428R. We had a few small edits due to P-Cable and continue to acquire reshoot, infill and prime.

Daily Comment Summaries - Plan for Tomorrow

Fri 03 Jul

The vessel will should remain in production throughout the day. The Vessel will focus on picking up a Infill/reshoot passes along with prime passes on the south.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Fri 3. Jul 00:00	Fri 3. Jul 00:08	0.133
SOL Seq 88 MGL15101660R FGSP=4446 FCSP=4446 Hdg=124.4° Prime EOL Seq 88 MGL15101660R LGSP=4357 LCSP=4357 Incomplete				
Streamers	DT_ST	Fri 3. Jul 00:08	Fri 3. Jul 00:10	0.033
NTBP Seq 88 FSP=4356 LSP=4350 - P-Cable System Lockup - J-Box 12				
Production Prime	AC_PP	Fri 3. Jul 00:10	Fri 3. Jul 00:29	0.317
SOL Seq 88 MGL15101660R FGSP=4349 FCSP=4349 Hdg=124.4° Prime EOL Seq 88 MGL15101660R LGSP=4144 LCSP=4144 Complete				
Production Prime	AC_PP	Fri 3. Jul 00:29	Fri 3. Jul 01:46	1.283
SOL Seq 88 MGL15101660R FGSP=4143 FCSP=4143 Hdg=124.4° Prime EOL Seq 88 MGL15101660R LGSP=3350 LCSP=3350 Complete				
Production Prime	AC_PP	Fri 3. Jul 01:46	Fri 3. Jul 02:08	0.367
SOL Seq 88 MGL15101660R FGSP=3349 FCSP=3349 Hdg=124.4° Prime				

Category	Code	Start	End	Duration
EOL Seq 88 MGL15101660R LGSP=3126 LCSP=3126 Complete				
Production Prime	AC_PP	Fri 3. Jul 02:08	Fri 3. Jul 02:13	0.083
SOL Seq 88 MGL15101660R FGSP=3125 FCSP=3125 Hdg=124.4° Prime EOL Seq 88 MGL15101660R LGSP=3072 LCSP=3072 Complete				
Production Infill	AC_PI	Fri 3. Jul 02:13	Fri 3. Jul 02:40	0.450
SOL Seq 88 MGL15101660R FGSP=3071 FCSP=3071 Hdg=124.4° Infill EOL Seq 88 MGL15101660R LGSP=2792 LCSP=2792 Complete				
Production Prime	AC_PP	Fri 3. Jul 02:40	Fri 3. Jul 02:46	0.100
SOL Seq 88 MGL15101660R FGSP=2791 FCSP=2791 Hdg=124.4° Prime EOL Seq 88 MGL15101660R LGSP=2728 LCSP=2728 Complete				
Production Infill	AC_PI	Fri 3. Jul 02:46	Fri 3. Jul 02:58	0.200
SOL Seq 88 1756 FGSP=2727 FCSP=2727 Hdg=124.4° Infill EOL Seq 88 1756 LGSP=2617 LCSP=2617 Complete				
Production Infill	AC_PI	Fri 3. Jul 02:58	Fri 3. Jul 03:04	0.100
SOL Seq 88 MGL15101660R FGSP=2616 FCSP=2616 Hdg=124.4° Infill EOL Seq 88 MGL15101660R LGSP=2554 LCSP=2554 Complete				
Production Infill	AC_PI	Fri 3. Jul 03:04	Fri 3. Jul 03:23	0.317
SOL Seq 88 MGL15101660R FGSP=2553 FCSP=2553 Hdg=124.4° Infill EOL Seq 88 MGL15101660R LGSP=2368 LCSP=2368 Complete				
Production Prime	AC_PP	Fri 3. Jul 03:23	Fri 3. Jul 03:29	0.100
SOL Seq 88 MGL15101660R FGSP=2367 FCSP=2367 Hdg=124.4° Prime EOL Seq 88 MGL15101660R LGSP=2305 LCSP=2305 Complete				
Production Infill	AC_PI	Fri 3. Jul 03:29	Fri 3. Jul 05:26	1.950
SOL Seq 88 MGL15101660R FGSP=2304 FCSP=2304 Hdg=124.4° Infill EOL Seq 88 MGL15101660R LGSP=1081 LCSP=1081 Complete				
Production Prime	AC_PP	Fri 3. Jul 05:26	Fri 3. Jul 05:33	0.117
SOL Seq 88 MGL15101660R FGSP=1080 FCSP=1080 Hdg=124.4° Prime EOL Seq 88 MGL15101660R LGSP=1015 LCSP=1015 Complete				
Production Infill	AC_PI	Fri 3. Jul 05:33	Fri 3. Jul 05:38	0.083
SOL Seq 88 MGL15101660R FGSP=1014 FCSP=1014 Hdg=124.4° Infill EOL Seq 88 MGL15101660R LGSP=961 LCSP=961 Complete EOL Water Depth=52m				
Infill Line Change	AC_ILC	Fri 3. Jul 05:38	Fri 3. Jul 06:10	0.533
Nominal Infill line change.				
Production Prime	AC_PP	Fri 3. Jul 06:10	Fri 3. Jul 06:41	0.517
SOL Seq 89 MGL15102116R FGSP=988 FCSP=988 Hdg=304.4° Prime EOL Seq 89 MGL15102116R LGSP=1285 LCSP=1285 Complete SOL Water Depth=52.4m				
Production Infill	AC_PI	Fri 3. Jul 06:41	Fri 3. Jul 07:05	0.400
SOL Seq 89 MGL15102116R FGSP=1286 FCSP=1286 Hdg=304.4° Infill EOL Seq 89 MGL15102116R LGSP=1523 LCSP=1523 Complete				
Production Prime	AC_PP	Fri 3. Jul 07:05	Fri 3. Jul 07:40	0.583
SOL Seq 89 MGL15102116R FGSP=1524 FCSP=1524 Hdg=304.4° Prime EOL Seq 89 MGL15102116R LGSP=1899 LCSP=1899 Complete				
Production Infill	AC_PI	Fri 3. Jul 07:40	Fri 3. Jul 08:09	0.483
SOL Seq 89 MGL15102116R FGSP=1900 FCSP=1900 Hdg=304.4° Infill EOL Seq 89 MGL15102116R LGSP=2204 LCSP=2204 Complete				
Production Prime	AC_PP	Fri 3. Jul 08:09	Fri 3. Jul 08:14	0.083
SOL Seq 89 MGL15102116R FGSP=2205 FCSP=2205 Hdg=304.4° Prime				

Category	Code	Start	End	Duration
EOL Seq 89 MGL15102116R LGSP=2265 LCSP=2265 Complete				
Production Infill	AC_PI	Fri 3. Jul 08:14	Fri 3. Jul 09:46	1.533
SOL Seq 89 MGL15102116R FGSP=2266 FCSP=2266 Hdg=304.4° Infill EOL Seq 89 MGL15102116R LGSP=3261 LCSP=3261 Incomplete				
Recording	DT_RC	Fri 3. Jul 09:46	Fri 3. Jul 09:54	0.133
NTBP Seq 89 FSP=3262 LSP=3343 - P-Cable System Lockup - J-Box 12				
Production Infill	AC_PI	Fri 3. Jul 09:54	Fri 3. Jul 11:47	1.883
SOL Seq 89 MGL15102116R FGSP=3344 FCSP=3344 Hdg=304.4° Infill EOL Seq 89 MGL15102116R LGSP=4541 LCSP=4541 Complete				
Production Prime	AC_PP	Fri 3. Jul 11:47	Fri 3. Jul 12:00	0.217
SOL Seq 89 MGL15102116R FGSP=4542 FCSP=4542 Hdg=304.4° Prime EOL Seq 89 MGL15102116R LGSP=4671 LCSP=4671 Complete				
Production Prime	AC_PP	Fri 3. Jul 12:00	Fri 3. Jul 12:37	0.617
SOL Seq 89 MGL15102116R FGSP=4672 FCSP=4672 Hdg=304.4° Prime EOL Seq 89 MGL15102116R LGSP=5041 LCSP=5041 Complete EOL Water Depth=31.5m				
Infill Line Change	AC_ILC	Fri 3. Jul 12:37	Fri 3. Jul 13:38	1.017
Nominal Infill line change.				
Production Infill	AC_PI	Fri 3. Jul 13:38	Fri 3. Jul 13:43	0.083
SOL Seq 90 MGL15101204A FGSP=5079 FCSP=5079 Hdg=124.4° Infill EOL Seq 90 MGL15101204A LGSP=5029 LCSP=5029 Complete SOL Feather=0° SOL Water Depth=25.6m				
Production Prime	AC_PP	Fri 3. Jul 13:43	Fri 3. Jul 14:29	0.767
SOL Seq 90 MGL15101204A FGSP=5028 FCSP=5028 Hdg=124.4° Prime EOL Seq 90 MGL15101204A LGSP=4535 LCSP=4535 Incomplete				
Streamers	DT_ST	Fri 3. Jul 14:29	Fri 3. Jul 14:36	0.117
NTBP Seq 90 FSP=4534 LSP=4461 - - P-Cable System Lockup - J-Box 12 - During Sametime there was a power down for PSO Sighting.				
Production Prime	AC_PP	Fri 3. Jul 14:36	Fri 3. Jul 20:18	5.700
SOL Seq 90 MGL15101204A FGSP=4460 FCSP=4460 Hdg=124.4° Prime EOL Seq 90 MGL15101204A LGSP=961 LCSP=961 Complete EOL Feather=0° EOL Water Depth=54.3m				
Prime Extended L/C	AC_PXL	Fri 3. Jul 20:18	Fri 3. Jul 21:35	1.283
Extended Prime line change.				
Production Prime	AC_PP	Fri 3. Jul 21:35	Fri 3. Jul 23:43	2.133
SOL Seq 91 MGL15102428R FGSP=962 FCSP=962 Hdg=304.4° Prime EOL Seq 91 MGL15102428R LGSP=2412 LCSP=2412 Complete SOL Water Depth=52.69m				
Production Infill	AC_PI	Fri 3. Jul 23:43	Fri 3. Jul 24:00	0.283
SOL Seq 91 MGL15102428R FGSP=2413 FCSP=2413 Hdg=304.4° Infill MSP Seq 91 MGL15102428R LGSP=2583 LCSP=2583 Mdnight				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

3-Jul	Hours	% Percent
Acquisition	**23.717**	**98.819**
Infill Line Change	1.550	6.458
Prime Extended L/C	1.283	5.347

3-Jul	Hours	% Percent
Production Infill	7.767	32.361
Production Prime	13.117	54.653
DownTime	**0.283**	**1.181**
Recording	0.133	0.556
Streamers	0.150	0.625
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**149.900**	**17.350**
Cetacean	8.800	1.019
Nav Systems In-Sea	12.817	1.483
Nav Systems Onboard	0.217	0.025
Operator Error	0.033	0.004
Prime Extended L/C	1.700	0.197
Recording	11.650	1.348
Source	14.167	1.640
Streamers	100.267	11.605
Vessel	0.250	0.029
Acquisition	**595.617**	**68.937**
Infill Line Change	10.783	1.248
Prime Extended L/C	4.233	0.490
Prime Line Change	75.117	8.694
Production Infill	21.600	2.500
Production Prime	483.883	56.005
Mobilisation	**115.850**	**13.409**
Mob Ashore	84.833	9.819
Reconfiguration	13.300	1.539
Testing	6.983	0.808
Transit to Prospect	10.733	1.242
Demobilisation	**2.633**	**0.305**
Recovery	2.633	0.305
Total	864.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 03 Jul

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
P-Cable continues to show communication problems at J-Box #12. We have been able to power cycle the box and restore coms several times today. We are also seeing network issues in the P-Cable system and losing the DI info intermittently on streamers 13-24.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Fri 03 Jul

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Shehan, Dan - Geometrics Field Service Engineer

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Fri 3 Jul	Marcus G Langseth	88 - 91	163.97
Total Production:			**163.97**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	8.35	261.38	3336.89	3336.89
Infill	60.96	106.38	268.88	268.88
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	94.66	117.19	351.19	351.19
Combined	**163.98**	**484.94**	**3966.82**	**3966.82**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
88	MGL15101660R	124.4	4446	4144	Prime, Reshoot	3.70	4.281	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	4143	3350	Prime, Reshoot	9.93	4.171	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	3349	3126	Prime, Reshoot	2.80	4.105	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	3125	3072	Prime, Reshoot	0.68	4.293	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	3071	2792	Infill	3.50	4.185	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	2791	2728	Prime, Reshoot	0.80	4.252	Complete	Complete
NTBP: 4356 - 4350									
88	1756	124.4	2727	2617	Infill	1.39	3.712	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	2616	2554	Infill	0.79	4.185	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	2553	2368	Infill	2.33	3.943	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	2367	2305	Prime, Reshoot	0.79	4.185	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	2304	1081	Infill	15.30	4.233	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	1080	1015	Prime, Reshoot	0.83	3.760	Complete	Complete
NTBP: 4356 - 4350									
88	MGL15101660R	124.4	1014	961	Infill	0.68	4.293	Complete	Complete
NTBP: 4356 - 4350									
89	MGL15102116R	304.4	988	1285	Prime	3.73	3.880	Complete	Complete
NTBP: 3262 - 3343									
89	MGL15102116R	304.4	1286	1523	Infill	2.98	3.999	Complete	Complete
NTBP: 3262 - 3343									
89	MGL15102116R	304.4	1524	1899	Prime, Reshoot	4.70	4.339	Complete	Complete

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
NTBP: 3262 - 3343									
89	MGL15102116R	304.4	1900	2204	Infill	3.81	4.245	Complete	Complete
NTBP: 3262 - 3343									
89	MGL15102116R	304.4	2205	2265	Prime, Reshoot	0.76	4.860	Complete	Complete
NTBP: 3262 - 3343									
89	MGL15102116R	304.4	2266	4541	Infill	27.43	4.335	Complete	Complete
NTBP: 3262 - 3343									
89	MGL15102116R	304.4	4542	4671	Prime, Reshoot	1.62	4.019	Complete	Complete
NTBP: 3262 - 3343									
89	MGL15102116R	304.4	4672	5041	Prime	4.62	4.039	Complete	Complete
NTBP: 3262 - 3343									
90	MGL15101204A	124.4	5079	5029	Infill	0.64	4.050	Complete	Complete
NTBP: 4534 - 4461									
90	MGL15101204A	124.4	5028	961	Prime, Reshoot	49.92	4.242	Complete	Complete
NTBP: 4534 - 4461									
91	MGL15102428R	304.4	962	2412	Prime, Reshoot	18.14	4.588	Complete	Complete
91	MGL15102428R	304.4	2413	2583	Infill	2.14	4.050	Part	Midnight
Total						**163.97**			

Survey Progress (NJ3D)

Percentage of Prime Charged

93%

Prime Lines Completed

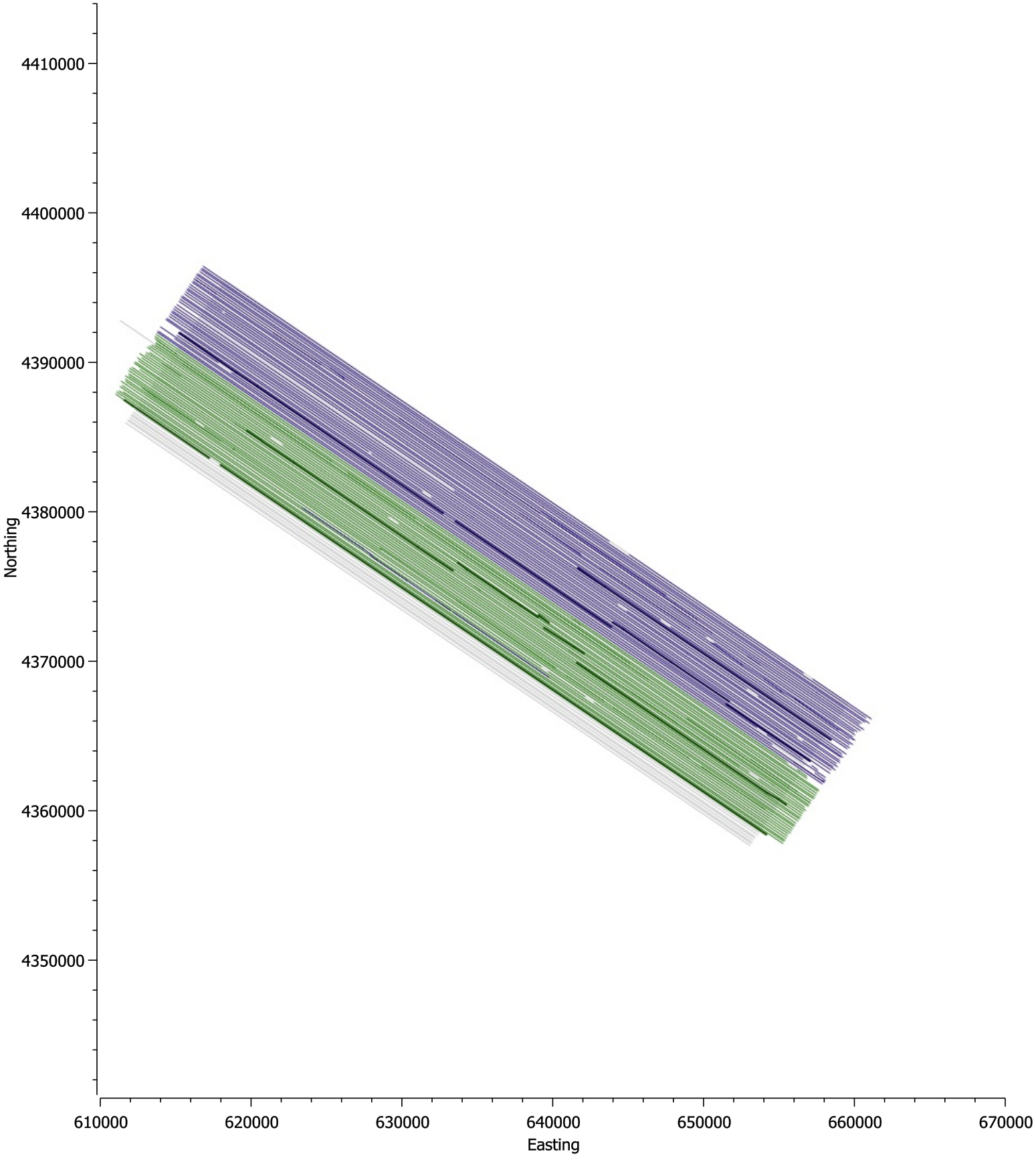
89%

Preplot Lines	Complete	Incomplete	Pending
79	70	0	0

Percentages Charged	
Prime	93.13% of 3935.19 km (Full fold)
Infill	7.63% of Charged Prime km (Sail Line)
	7.07% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	123.96 km
Average Charged Daily Prime and Infill Production	123.26 km

NJ3D: Accpt (5/29/2015 - 7/3/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sat 04 Jul

The Vessel was in production during the day and data was acquired on lines MGL1510 - 2428R, 1180 and 1156. There where few small edits due to P-Cable system ups. However at 11:17 UTC they system stopped functioning and had to be recovered. At 11:54 UTC Recovery began an by 14:30 UTC the system was repaired and redeployed. All towed equipment was returned to the water and production resumed at 18:34 UTC an continued throughout the rest of the day.

Daily Comment Summaries - Plan for Tomorrow

Sat 04 Jul

The vessel will should remain in production throughout the day. The Vessel will focus on picking up a Infill/reshoot passes along with prime passes on the south.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Infill	AC_PI	Sat 4. Jul 00:00	Sat 4. Jul 00:57	0.950
SOL Seq 91 MGL15102428R FGSP=2584 FCSP=2584 Hdg=304.4° Infill EOL Seq 91 MGL15102428R LGSP=3175 LCSP=3175 Incomplete				
Streamers	DT_ST	Sat 4. Jul 00:57	Sat 4. Jul 01:03	0.100
NTBP Seq 91 FSP=3176 LSP=3233 -P-Cable System Lockup				
Production Infill	AC_PI	Sat 4. Jul 01:03	Sat 4. Jul 01:16	0.217
SOL Seq 91 MGL15102428R FGSP=3234 FCSP=3234 Hdg=304.4° Infill EOL Seq 91 MGL15102428R LGSP=3356 LCSP=3356 Complete				
Production Prime	AC_PP	Sat 4. Jul 01:16	Sat 4. Jul 02:27	1.183
SOL Seq 91 MGL15102428R FGSP=3357 FCSP=3357 Hdg=304.4° Prime EOL Seq 91 MGL15102428R LGSP=4100 LCSP=4100 Incomplete				
Streamers	DT_ST	Sat 4. Jul 02:27	Sat 4. Jul 02:33	0.100

Category	Code	Start	End	Duration
NTBP Seq 91 FSP=4101 LSP=4154 -P-Cable System Lockup				
Production Prime	AC_PP	Sat 4. Jul 02:33	Sat 4. Jul 03:30	0.950
SOL Seq 91 MGL15102428R FGSP=4155 FCSP=4155 Hdg=304.4° Prime EOL Seq 91 MGL15102428R LGSP=4743 LCSP=4743 Incomplete				
Streamers	DT_ST	Sat 4. Jul 03:30	Sat 4. Jul 03:36	0.100
NTBP Seq 91 FSP=4744 LSP=4793 - P-Cable System Lockup				
Production Prime	AC_PP	Sat 4. Jul 03:36	Sat 4. Jul 04:01	0.417
SOL Seq 91 MGL15102428R FGSP=4794 FCSP=4794 Hdg=304.4° Prime EOL Seq 91 MGL15102428R LGSP=5041 LCSP=5041 Complete EOL Water Depth=37m				
Infill Line Change	AC_ILC	Sat 4. Jul 04:01	Sat 4. Jul 05:12	1.183
Nominal Infill line change.				
Production Prime	AC_PP	Sat 4. Jul 05:12	Sat 4. Jul 09:13	4.017
SOL Seq 92 MGL15101180 FGSP=5105 FCSP=5105 Hdg=124.4° Prime EOL Seq 92 MGL15101180 LGSP=2628 LCSP=2628 Incomplete SOL Feather=0° SOL Water Depth=21.7m				
Streamers	DT_ST	Sat 4. Jul 09:13	Sat 4. Jul 09:16	0.050
NTBP Seq 92 FSP=2627 LSP=2599 - P-Cable System Lockup				
Production Prime	AC_PP	Sat 4. Jul 09:16	Sat 4. Jul 09:55	0.650
SOL Seq 92 MGL15101180 FGSP=2598 FCSP=2598 Hdg=124.4° Prime EOL Seq 92 MGL15101180 LGSP=2209 LCSP=2209 Incomplete				
Streamers	DT_ST	Sat 4. Jul 09:55	Sat 4. Jul 10:07	0.200
NTBP Seq 92 FSP=2208 LSP=2107 - P-Cable System Lockup				
Production Prime	AC_PP	Sat 4. Jul 10:07	Sat 4. Jul 10:20	0.217
SOL Seq 92 MGL15101180 FGSP=2106 FCSP=2106 Hdg=124.4° Prime EOL Seq 92 MGL15101180 LGSP=1986 LCSP=1986 Incomplete				
Streamers	DT_ST	Sat 4. Jul 10:20	Sat 4. Jul 10:38	0.300
NTBP Seq 92 FSP=1985 LSP=1813 - P-Cable System Lockup				
Production Prime	AC_PP	Sat 4. Jul 10:38	Sat 4. Jul 11:17	0.650
SOL Seq 92 MGL15101180 FGSP=1812 FCSP=1812 Hdg=124.4° Prime EOL Seq 92 MGL15101180 LGSP=1471 LCSP=1471 Complete				
Streamers	DT_ST	Sat 4. Jul 11:17	Sat 4. Jul 11:55	0.633
NTBP Seq 92 FSP=1470 LSP=1108 - P-Cable System Lockup				
Streamers	DT_ST	Sat 4. Jul 11:55	Sat 4. Jul 12:40	0.750
Downtime due to streamers - Recovering PAM and Source				
Streamers	DT_ST	Sat 4. Jul 12:40	Sat 4. Jul 13:49	1.150
Downtime due to streamers - Recovering P-Cables system to make repairs				
Streamers	DT_ST	Sat 4. Jul 13:49	Sat 4. Jul 14:30	0.683
Downtime due to streamers - Trouble shooting and making repairs to the P-Cable System at J-Box 12				
Streamers	DT_ST	Sat 4. Jul 14:30	Sat 4. Jul 16:27	1.950
Downtime due to streamers - Deploying P-Cable System				
Streamers	DT_ST	Sat 4. Jul 16:27	Sat 4. Jul 16:45	0.300
Downtime due to streamers - Deploying Source and PAM				
Streamers	DT_ST	Sat 4. Jul 16:45	Sat 4. Jul 17:13	0.467
Downtime due to streamers - Ramping Up source				

Category	Code	Start	End	Duration
Streamers	DT_ST	Sat 4. Jul 17:13	Sat 4. Jul 18:39	1.433
Downtime due to streamers - Maneuvering towards line.				
Production Prime	AC_PP	Sat 4. Jul 18:39	Sat 4. Jul 24:00	5.350
SOL Seq 93 MGL15101156 FGSP=953 FCSP=953 Hdg=304.4° Prime MSP Seq 93 MGL15101156 LGSP=4292 LCSP=4292 Midnight SOL Feather=0° SOL Water Depth=55.2m				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

4-Jul	Hours	% Percent
Acquisition	**15.783**	**65.764**
Infill Line Change	1.183	4.931
Production Infill	1.167	4.861
Production Prime	13.433	55.972
DownTime	**8.217**	**34.236**
Streamers	8.217	34.236
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**158.117**	**17.806**
Cetacean	8.800	0.991
Nav Systems In-Sea	12.817	1.443
Nav Systems Onboard	0.217	0.024
Operator Error	0.033	0.004
Prime Extended L/C	1.700	0.191
Recording	11.650	1.312
Source	14.167	1.595
Streamers	108.483	12.217
Vessel	0.250	0.028
Acquisition	**611.400**	**68.851**
Infill Line Change	11.967	1.348
Prime Extended L/C	4.233	0.477
Prime Line Change	75.117	8.459
Production Infill	22.767	2.564
Production Prime	497.317	56.004
Mobilisation	**115.850**	**13.046**
Mob Ashore	84.833	9.553
Reconfiguration	13.300	1.498
Testing	6.983	0.786
Transit to Prospect	10.733	1.209
Demobilisation	**2.633**	**0.297**
Recovery	2.633	0.297
Total	888.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 04 Jul

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
P-Cable continues to show communication problems at J-Box #12. Power cycle J-Box 12 restore coms several times during the morning until it failed altogether. Equipment was recovered and J-Box 12 and Interconnect 12-13 was replaced.

Towing and Handling (Source):
Source Winch Remote controls failed. This was the second time the system had failed this trip. The first time a work around was found, however this time we where not as lucky. The system is in need of replacement as it is ships original equipment from 1996 an we are out of spare part to fix it. At this time we can recover the source but have to have a extra person up at the Source winches to operate the hydraulic controls. We even tried to install streamer winch #1's remote with out any luck. The Rapp Hydema remote system was not able to operated the oder Danfoss Valves.

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sat 04 Jul

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Shehan, Dan - Geometrics Field Service Engineer

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sat 4 Jul	Marcus G Langseth	91 - 93	112.09
Total Production:			**112.09**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	83.39	344.76	3420.27	3420.27
Infill	8.94	115.31	277.81	277.81
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	19.76	136.95	370.95	370.95
Combined	**112.09**	**597.02**	**4078.91**	**4078.91**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
91	MGL15102428R	304.4	2584	3356	Infill	8.94	3.985	Complete	Complete
NTBP: 3176 - 3233, NTBP: 4101 - 4154, NTBP: 4744 - 4793									
91	MGL15102428R	304.4	3357	5041	Prime, Reshoot	19.76	4.139	Complete	Complete
NTBP: 3176 - 3233, NTBP: 4101 - 4154, NTBP: 4744 - 4793									
92	MGL15101180	124.4	5105	1471	Prime	41.64	3.870	Complete	Complete
NTBP: 2627 - 2599, NTBP: 2208 - 2107, NTBP: 1985 - 1813, NTBP: 1470 - 1108									
93	MGL15101156	304.4	953	4292	Prime	41.75	4.212	Part	Midnight
Total						**112.09**			

Survey Progress (NJ3D)

Percentage of Prime Charged

96%

Prime Lines Completed

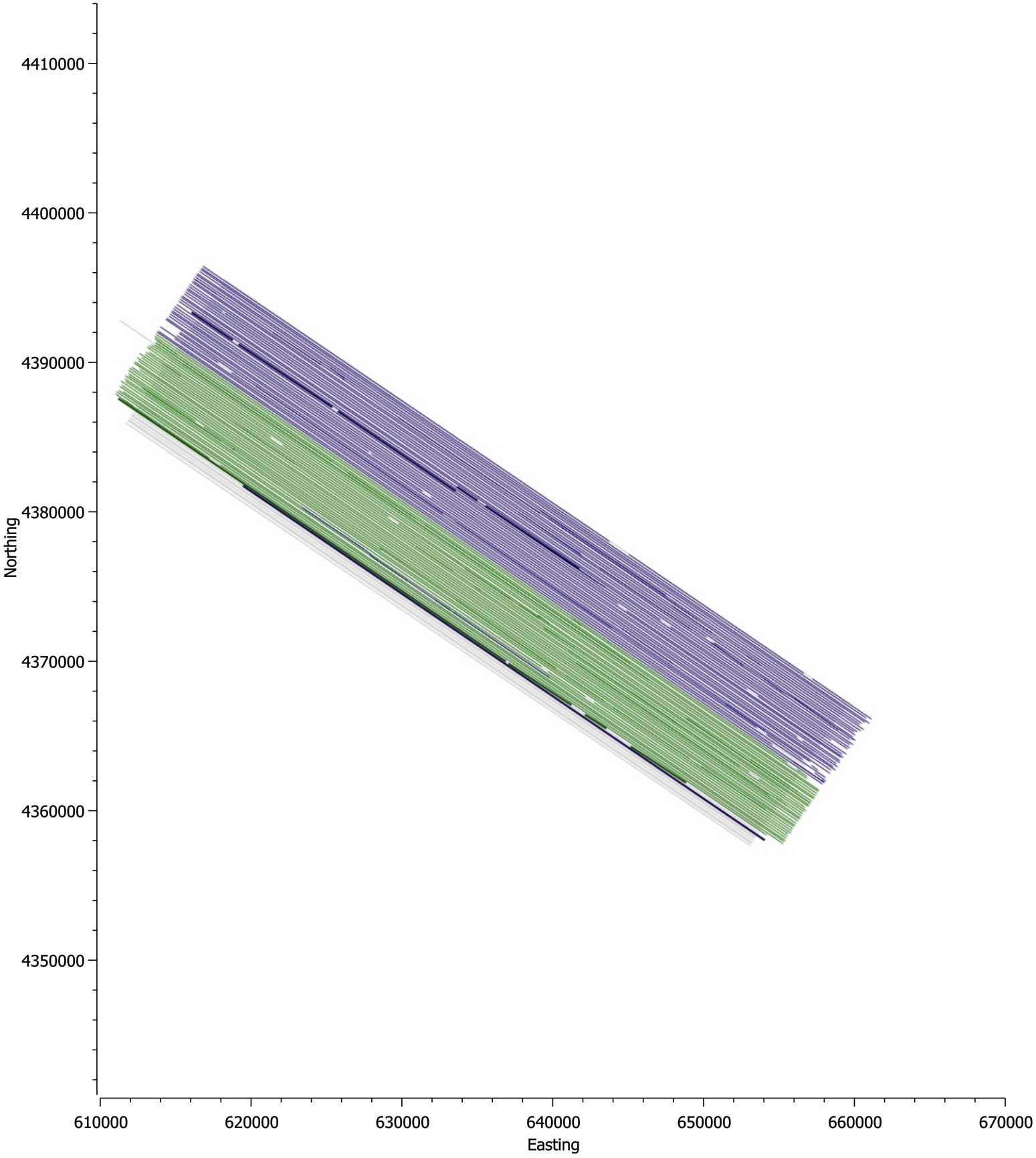
90%

Preplot Lines	Complete	Incomplete	Pending
79	71	1	0

Percentages Charged	
Prime	95.75% of 3935.19 km (Full fold)
Infill	7.65% of Charged Prime km (Sail Line)
	7.30% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	123.60 km
Average Charged Daily Prime and Infill Production	122.92 km

NJ3D: Accpt (5/29/2015 - 7/4/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D

General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Sun 05 Jul

The Vessel was in production during the day and data was acquired on lines MGL1510 - 1156, 1132, 1108,1084, 1338R, and 2188R,. The Vessel acquired shortened prime passes on the south and infill and re-shoot in western portion of the prospect.

Daily Comment Summaries - Plan for Tomorrow

Sun 05 Jul

The vessel will should remain in production throughout the day. The Vessel will focus on picking up a Infill/reshoot passes along with prime passes on the south. We will complete the survey approximately 8:45 UTC and begin to recover all of the gear at that time. We will meet the pilot at Ambrose at approximately 14:00 local time and arrive at the SUNY dock approximately 18:30.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Sun 5. Jul 00:00	Sun 5. Jul 01:12	1.200
SOL Seq 93 MGL15101156 FGSP=4293 FCSP=4293 Hdg=304.4° Prime EOL Seq 93 MGL15101156 LGSP=5041 LCSP=5041 Complete				
Prime Line Change	AC_PLC	Sun 5. Jul 01:12	Sun 5. Jul 02:43	1.517
Nominal Prime line change.				
Production Prime	AC_PP	Sun 5. Jul 02:43	Sun 5. Jul 06:56	4.217
SOL Seq 94 MGL15101132 FGSP=5050 FCSP=5050 Hdg=124.4° Prime EOL Seq 94 MGL15101132 LGSP=2420 LCSP=2420 Complete				
Prime Line Change	AC_PLC	Sun 5. Jul 06:56	Sun 5. Jul 08:15	1.317
Nominal Prime line change.				
Production Prime	AC_PP	Sun 5. Jul 08:15	Sun 5. Jul 12:38	4.383
SOL Seq 95 MGL15101108 FGSP=2306 FCSP=2306 Hdg=304.4° Prime				

Category	Code	Start	End	Duration
EOL Seq 95 MGL15101108 LGSP=5041 LCSP=5041 Complete SOL Feather=0° SOL Water Depth=28.5m EOL Feather=0° EOL Water Depth=22.7m				
Prime Line Change	AC_PLC	Sun 5. Jul 12:38	Sun 5. Jul 14:12	1.567
Nominal Prime line change.				
Production Prime	AC_PP	Sun 5. Jul 14:12	Sun 5. Jul 14:58	0.767
SOL Seq 96 MGL15101084 FGSP=5045 FCSP=5045 Hdg=124.4° Prime EOL Seq 96 MGL15101084 LGSP=4565 LCSP=4565 Incomplete SOL Feather=0° SOL Water Depth=28.2m				
Recording	DT_RC	Sun 5. Jul 14:58	Sun 5. Jul 15:24	0.433
NTBP Seq 96 FSP=4564 LSP=4292 - P-Cable System Lockup				
Production Prime	AC_PP	Sun 5. Jul 15:24	Sun 5. Jul 16:32	1.133
SOL Seq 96 MGL15101084 FGSP=4291 FCSP=4291 Hdg=124.4° Prime EOL Seq 96 MGL15101084 LGSP=3535 LCSP=3535 Incomplete				
Recording	DT_RC	Sun 5. Jul 16:32	Sun 5. Jul 16:37	0.083
NTBP Seq 96 FSP=3534 LSP=3481 - P-Cable System lockup				
Production Prime	AC_PP	Sun 5. Jul 16:37	Sun 5. Jul 18:09	1.533
SOL Seq 96 MGL15101084 FGSP=3480 FCSP=3480 Hdg=124.4° Prime EOL Seq 96 MGL15101084 LGSP=2420 LCSP=2420 Complete EOL Feather=0° EOL Water Depth=29.7m				
Infill Line Change	AC_ILC	Sun 5. Jul 18:09	Sun 5. Jul 19:21	1.200
Nominal Infill line change.				
Production Infill	AC_PI	Sun 5. Jul 19:21	Sun 5. Jul 19:38	0.283
SOL Seq 97 MGL15101348R FGSP=1944 FCSP=1944 Hdg=304.4° Infill EOL Seq 97 MGL15101348R LGSP=2109 LCSP=2109 Complete				
Production Prime	AC_PP	Sun 5. Jul 19:38	Sun 5. Jul 19:44	0.100
SOL Seq 97 MGL15101348R FGSP=2110 FCSP=2110 Hdg=304.4° Prime EOL Seq 97 MGL15101348R LGSP=2169 LCSP=2169 Complete				
Production Infill	AC_PI	Sun 5. Jul 19:44	Sun 5. Jul 20:09	0.417
SOL Seq 97 MGL15101348R FGSP=2170 FCSP=2170 Hdg=304.4° Infill EOL Seq 97 MGL15101348R LGSP=2401 LCSP=2401 Complete				
Production Prime	AC_PP	Sun 5. Jul 20:09	Sun 5. Jul 20:14	0.083
SOL Seq 97 MGL15101348R FGSP=2402 FCSP=2402 Hdg=304.4° Prime EOL Seq 97 MGL15101348R LGSP=2455 LCSP=2455 Complete				
Production Infill	AC_PI	Sun 5. Jul 20:14	Sun 5. Jul 20:20	0.100
SOL Seq 97 MGL15101348R FGSP=2456 FCSP=2456 Hdg=304.4° Infill EOL Seq 97 MGL15101348R LGSP=2520 LCSP=2520 Complete				
Infill Line Change	AC_ILC	Sun 5. Jul 20:20	Sun 5. Jul 21:18	0.967
Nominal Infill line change.				
Production Infill	AC_PI	Sun 5. Jul 21:18	Sun 5. Jul 21:59	0.683
SOL Seq 98 MGL15102188R FGSP=2778 FCSP=2778 Hdg=304.4° Infill EOL Seq 98 MGL15102188R LGSP=3233 LCSP=3233 Incomplete				
Cetacean	DT_CT	Sun 5. Jul 21:59	Sun 5. Jul 22:04	0.083
NTBP Seq 98 FSP=3234 LSP=3293				

Category	Code	Start	End	Duration
Production Infill	AC_PI	Sun 5. Jul 22:04	Sun 5. Jul 22:17	0.217
SOL Seq 98 MGL15102188R FGSP=3294 FCSP=3294 Hdg=304.4° Infill EOL Seq 98 MGL15102188R LGSP=3438 LCSP=3438 Complete				
Production Prime	AC_PP	Sun 5. Jul 22:17	Sun 5. Jul 22:22	0.083
SOL Seq 98 MGL15102188R FGSP=3439 FCSP=3439 Hdg=304.4° Prime EOL Seq 98 MGL15102188R LGSP=3502 LCSP=3502 Complete				
Production Infill	AC_PI	Sun 5. Jul 22:22	Sun 5. Jul 22:52	0.500
SOL Seq 98 MGL15102188R FGSP=3503 FCSP=3503 Hdg=304.4° Infill EOL Seq 98 MGL15102188R LGSP=3835 LCSP=3835 Complete				
Production Infill	AC_PI	Sun 5. Jul 22:52	Sun 5. Jul 22:54	0.033
SOL Seq 98 MGL15102188R FGSP=3836 FCSP=3836 Hdg=304.4° Infill EOL Seq 98 MGL15102188R LGSP=3857 LCSP=3857 Complete				
Production Infill	AC_PI	Sun 5. Jul 22:54	Sun 5. Jul 24:00	1.100
SOL Seq 98 MGL15102188R FGSP=3858 FCSP=3858 Hdg=304.4° Infill MSP Seq 98 MGL15102188R LGSP=4581 LCSP=4581 Mdnight				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

5-Jul	Hours	% Percent
Acquisition	**23.400**	**97.500**
Infill Line Change	2.167	9.028
Prime Line Change	4.400	18.333
Production Infill	3.333	13.889
Production Prime	13.500	56.250
DownTime	**0.600**	**2.500**
Cetacean	0.083	0.347
Recording	0.517	2.153
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**158.717**	**17.403**
Cetacean	8.883	0.974
Nav Systems In-Sea	12.817	1.405
Nav Systems Onboard	0.217	0.024
Operator Error	0.033	0.004
Prime Extended L/C	1.700	0.186
Recording	12.167	1.334
Source	14.167	1.553
Streamers	108.483	11.895
Vessel	0.250	0.027
Acquisition	**634.800**	**69.605**
Infill Line Change	14.133	1.550
Prime Extended L/C	4.233	0.464
Prime Line Change	79.517	8.719
Production Infill	26.100	2.862
Production Prime	510.817	56.011
Mobilisation	**115.850**	**12.703**
Mob Ashore	84.833	9.302

Category	Hours	% Percent
Reconfiguration	13.300	1.458
Testing	6.983	0.766
Transit to Prospect	10.733	1.177
Demobilisation	**2.633**	**0.289**
Recovery	2.633	0.289
Total	912.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 05 Jul

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
A few Lockups of the P-Cable Recording System today.

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sun 05 Jul

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Shehan, Dan - Geometrics Field Service Engineer

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander

Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Sun 5 Jul	Marcus G Langseth	93 - 98	134.20
Total Production:			**134.20**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	105.19	449.95	3525.46	3525.46
Infill	26.79	142.10	304.60	304.60
Infill, Progressive	0.00	0.00	9.88	9.88
Prime, Reshoot	2.23	139.18	373.18	373.18
Combined	**134.20**	**731.23**	**4213.11**	**4213.11**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
93	MGL15101156	304.4	4293	5041	Prime	9.36	4.212	Complete	Complete
94	MGL15101132	124.4	5050	2420	Prime	32.89	4.210	Complete	Complete
95	MGL15101108	304.4	2306	5041	Prime	34.20	4.211	Complete	Complete
96	MGL15101084	124.4	5045	2420	Prime	28.74	4.465	Complete	Complete
NTBP: 4564 - 4292, NTBP: 3534 - 3481									
97	MGL15101348R	304.4	1944	2109	Infill	2.08	3.931	Complete	Complete
97	MGL15101348R	304.4	2110	2169	Prime, Reshoot	0.75	3.982	Complete	Complete
97	MGL15101348R	304.4	2170	2401	Infill	2.90	3.742	Complete	Complete
97	MGL15101348R	304.4	2402	2455	Prime, Reshoot	0.68	4.293	Complete	Complete
97	MGL15101348R	304.4	2456	2520	Infill	0.81	4.320	Complete	Complete
98	MGL15102188R	304.4	2778	3438	Infill	7.51	4.490	Complete	Complete
NTBP: 3234 - 3293									
98	MGL15102188R	304.4	3439	3502	Prime, Reshoot	0.80	5.103	Complete	Complete
NTBP: 3234 - 3293									
98	MGL15102188R	304.4	3503	3835	Infill	4.16	4.482	Complete	Complete
NTBP: 3234 - 3293									
98	MGL15102188R	304.4	3836	3857	Infill	0.28	4.252	Complete	Complete
NTBP: 3234 - 3293									
98	MGL15102188R	304.4	3858	4581	Infill	9.05	4.436	Part	Midnight
NTBP: 3234 - 3293									
Total						**134.20**			

Survey Progress (NJ3D)

Percentage of Prime Charged

98%

Prime Lines Completed

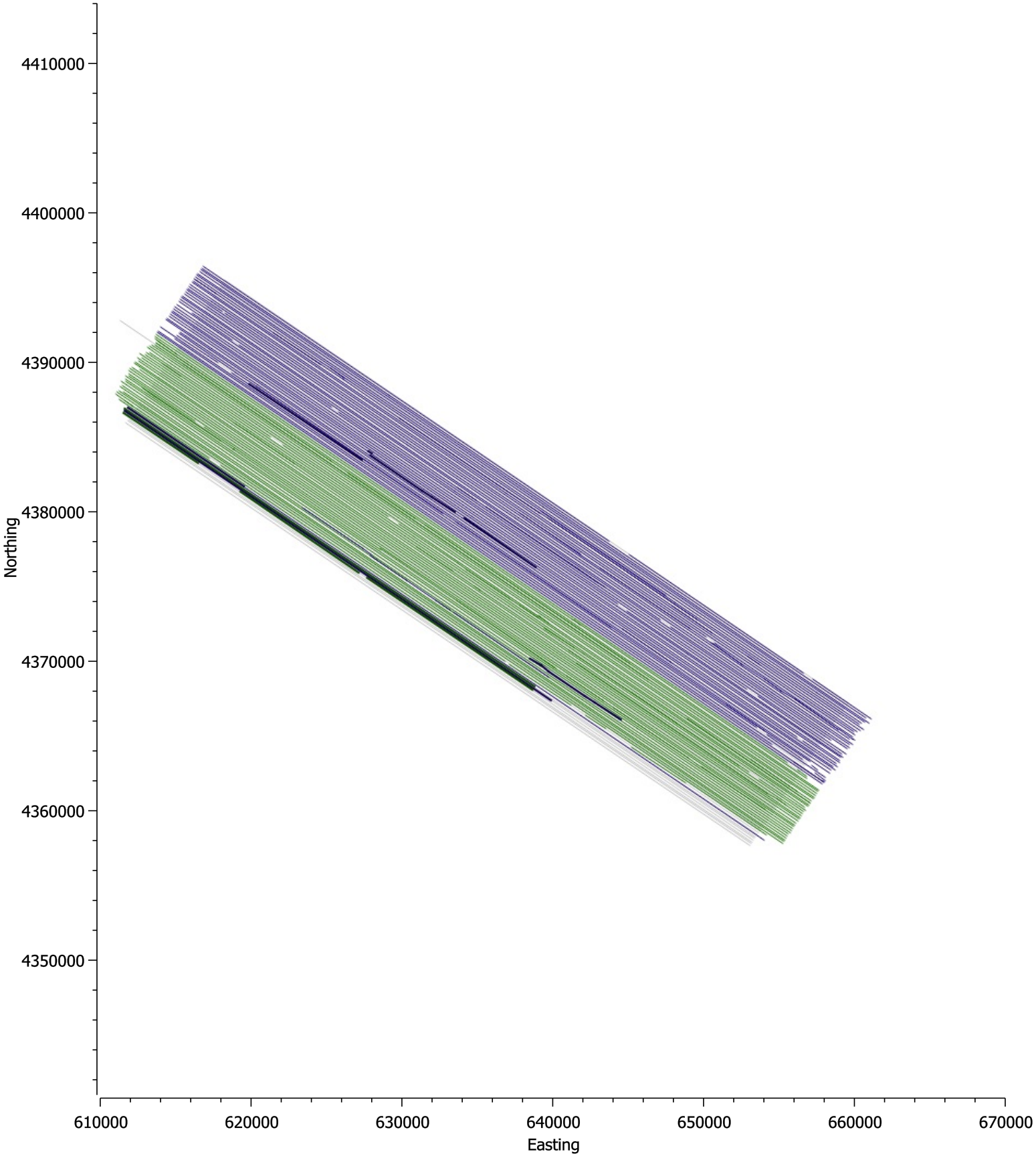
95%

Preplot Lines	Complete	Incomplete	Pending
79	75	0	0

Percentages Charged	
Prime	98.48% of 3935.19 km (Full fold)
Infill	8.13% of Charged Prime km (Sail Line)
	7.98% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	123.92 km
Average Charged Daily Prime and Infill Production	123.25 km

NJ3D: Accpt (5/29/2015 - 7/5/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

6 Jul 2015

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Basic Project Details

Mountain NJ3D					
General Details					
Record length:	4000 ms	Sample rate:	0.5 ms	Shotpoint interval:	12.5 m
CoS to CNG:	37 m	Fold Coverage:	4		
Cable Details					
No of Cables:	24	Head Separation:	12.5 m	Tail Separation:	12.5 m
Chans Per Cable:	8	Front Depth:	4.5 m	Tail Depth:	4.5 m
Length:	50 m	Group interval:	6.25 m		
Source Details					
No of Sources:	1	Separation:	0 m	Depth:	4.5 m
Pressure:	2000 PSI	Total Volume:	700 cu ins	String separation:	0 m
String length:	18 m	Strings per source:	1		
Binning					
Size Inline:	12.5 m	Size XLine:	6.25 m		

Daily Comment Summaries - Daily Summary

Mon 06 Jul

The Vessel was in production during the day and data was acquired on lines MGL1510 - 2188R, 1756R, and 2116S. At 08:44 UTC all production was completed and recovery of the towed equipment began. At 11:08 UTC all Towed Equipment was onboard and secure and the vessel got underway for the NYC Sea Buoy. At 17:12 UTC the Pilots boarded and the vessel continued into NYC Harbor. At 22:34 UTC Vessel fully secured alongside SUNY Maritime Collage NYC, NY. The vessel remained alongside throughout the rest of the day..

Daily Comment Summaries - Plan for Tomorrow

Mon 06 Jul

The vessel will remain alongside SUNY Maritime Collage's facility De-Mobilizing from MGL1510. The crew will focus on Items from the work list.

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Production Infill	AC_PI	Mon 6. Jul 00:00	Mon 6. Jul 00:09	0.150
SOL Seq 98 MGL15102188R FGSP=4582 FCSP=4582 Hdg=304.4° Infill EOL Seq 98 MGL15102188R LGSP=4692 LCSP=4692 Complete				
Production Prime	AC_PP	Mon 6. Jul 00:09	Mon 6. Jul 00:17	0.133
SOL Seq 98 MGL15102188R FGSP=4693 FCSP=4693 Hdg=304.4° Prime EOL Seq 98 MGL15102188R LGSP=4785 LCSP=4785 Complete				
Production Infill	AC_PI	Mon 6. Jul 00:17	Mon 6. Jul 00:18	0.017
SOL Seq 98 MGL15102188R FGSP=4786 FCSP=4787 Hdg=304.4° Infill EOL Seq 98 MGL15102188R LGSP=4787 LCSP=4787 Complete EOL Water Depth=29.1m				
Infill Line Change	AC_ILC	Mon 6. Jul 00:18	Mon 6. Jul 01:20	1.033

Category	Code	Start	End	Duration
Nominal Infill line change.				
Production Infill	AC_PI	Mon 6. Jul 01:20	Mon 6. Jul 02:10	0.833
SOL Seq 99 MGL15101756R FGSP=4809 FCSP=4809 Hdg=124.4° Infill EOL Seq 99 MGL15101756R LGSP=4307 LCSP=4307 Complete				
Production Prime	AC_PP	Mon 6. Jul 02:10	Mon 6. Jul 02:15	0.083
SOL Seq 99 MGL15101756R FGSP=4306 FCSP=4306 Hdg=124.4° Prime EOL Seq 99 MGL15101756R LGSP=4250 LCSP=4250 Complete				
Production Infill	AC_PI	Mon 6. Jul 02:15	Mon 6. Jul 03:23	1.133
SOL Seq 99 MGL15101756R FGSP=4249 FCSP=4249 Hdg=124.4° Infill EOL Seq 99 MGL15101756R LGSP=3553 LCSP=3553 Complete				
Production Prime	AC_PP	Mon 6. Jul 03:23	Mon 6. Jul 03:28	0.083
SOL Seq 99 MGL15101756R FGSP=3552 FCSP=3552 Hdg=124.4° Prime EOL Seq 99 MGL15101756R LGSP=3502 LCSP=3502 Complete				
Production Infill	AC_PI	Mon 6. Jul 03:28	Mon 6. Jul 03:52	0.400
SOL Seq 99 MGL15101756R FGSP=3501 FCSP=3501 Hdg=124.4° Infill EOL Seq 99 MGL15101756R LGSP=3245 LCSP=3245 Complete EOL Water Depth=29.7m				
Infill Line Change	AC_ILC	Mon 6. Jul 03:52	Mon 6. Jul 05:23	1.517
Nominal Infill line change.				
Production Infill	AC_PI	Mon 6. Jul 05:23	Mon 6. Jul 07:35	2.200
SOL Seq 100 MGL15102116S FGSP=2806 FCSP=2806 Hdg=304.4° Infill EOL Seq 100 MGL15102116S LGSP=4100 LCSP=4100 Complete				
Production Prime	AC_PP	Mon 6. Jul 07:35	Mon 6. Jul 07:40	0.083
SOL Seq 100 MGL15102116S FGSP=4101 FCSP=4101 Hdg=304.4° Prime EOL Seq 100 MGL15102116S LGSP=4154 LCSP=4154 Complete				
Production Infill	AC_PI	Mon 6. Jul 07:40	Mon 6. Jul 08:38	0.967
SOL Seq 100 MGL15102116S FGSP=4155 FCSP=4155 Hdg=304.4° Infill EOL Seq 100 MGL15102116S LGSP=4743 LCSP=4743 Complete				
Production Prime	AC_PP	Mon 6. Jul 08:38	Mon 6. Jul 08:43	0.083
SOL Seq 100 MGL15102116S FGSP=4744 FCSP=4744 Hdg=304.4° Prime EOL Seq 100 MGL15102116S LGSP=4793 LCSP=4793 Complete				
Production Prime	AC_PP	Mon 6. Jul 08:43	Mon 6. Jul 08:44	0.017
SOL Seq 100 MGL15102116S FGSP=4794 FCSP=4794 Hdg=304.4° Infill EOL Seq 100 MGL15102116S LGSP=4803 LCSP=4803 Complete EOL Feather=0° EOL Water Depth=27.7m				
Recovery	DM_RC	Mon 6. Jul 08:44	Mon 6. Jul 09:08	0.400
Demobilising offshore, recovering Source and PAM				
Recovery	DM_RC	Mon 6. Jul 09:08	Mon 6. Jul 11:08	2.000
Demobilising offshore, recovering P-Cable System. Barovanes, and Tri-Point floats.				
Transit From Prospect	DM_TF	Mon 6. Jul 11:08	Mon 6. Jul 17:12	6.067
Demobilising, In Transit from prospect to NYC Sea Buoy.				
Transit From Prospect	DM_TF	Mon 6. Jul 17:12	Mon 6. Jul 22:34	5.367
Demobilising, In Transit from Sea Buoy to SUNY Maritime Collage.				
Demob Ashore	DM_DA	Mon 6. Jul 22:34	Mon 6. Jul 24:00	1.433
Demobilising ashore. Vessel Secured Alongside SUNY Maritime Collage NYC, NY				

Timing Day By Day (Marcus G Langseth, Mountain NJ3D)

6-Jul	Hours	% Percent
Acquisition	**8.733**	**36.389**
Infill Line Change	2.550	10.625
Production Infill	5.700	23.750
Production Prime	0.483	2.014
Demobilisation	**15.267**	**63.611**
Demob Ashore	1.433	5.972
Recovery	2.400	10.000
Transit From Prospect	11.433	47.639
Day's Total	**24.000**	**100.000**

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**158.717**	**16.957**
Cetacean	8.883	0.949
Nav Systems In-Sea	12.817	1.369
Nav Systems Onboard	0.217	0.023
Operator Error	0.033	0.004
Prime Extended L/C	1.700	0.182
Recording	12.167	1.300
Source	14.167	1.514
Streamers	108.483	11.590
Vessel	0.250	0.027
Demobilisation	**17.900**	**1.912**
Demob Ashore	1.433	0.153
Recovery	5.033	0.538
Transit From Prospect	11.433	1.222
Acquisition	**643.533**	**68.754**
Infill Line Change	16.683	1.782
Prime Extended L/C	4.233	0.452
Prime Line Change	79.517	8.495
Production Infill	31.800	3.397
Production Prime	511.300	54.626
Mobilisation	**115.850**	**12.377**
Mob Ashore	84.833	9.063
Reconfiguration	13.300	1.421
Testing	6.983	0.746
Transit to Prospect	10.733	1.147
Total	936.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 06 Jul

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Mon 06 Jul

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern
Shehan, Dan - Geometrics Field Service Engineer

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
Mountain Gregory Chief Scientist (PI)
Nedimovic Mladen CO-PI
Newton Andrew Watchstander
Baldwin Kimberly Watchstander
Bhatnagar Tarini Watchstander
Johnson Christopher Watchstander
Stanley James Watchstander
Kucuk Mert Watchstander
Aali Masoud Watchstander

Production Day By Day (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Date	Vessel	First - Last Sequence	Production
Mon 6 Jul	Marcus G Langseth	98 - 100	47.11
Total Production:			**47.11**

Production Totals (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	3525.46	3525.46
Infill	43.30	43.30	357.77	357.77
Prime, Reshoot	3.81	3.81	376.99	376.99
Combined	**47.11**	**47.11**	**4260.22**	**4260.22**

Production Listing (Accpt km by shotpoint) - Prime: Full Fold, Infill: Sail Line

Sequence	Line	Heading	FGSP	LGSP	Production Type	Production	Ave Knots	Seq Status	Line Status
98	MGL15102188R	304.4	4582	4692	Infill	1.39	4.503	Complete	Complete
98	MGL15102188R	304.4	4693	4785	Prime, Reshoot	1.16	4.657	Complete	Complete
98	MGL15102188R	304.4	4786	4787	Infill	0.03	0.405	Complete	Complete
99	MGL15101756R	124.4	4809	4307	Infill	6.29	4.066	Complete	Complete
99	MGL15101756R	124.4	4306	4250	Prime, Reshoot	0.71	4.536	Complete	Complete
99	MGL15101756R	124.4	4249	3553	Infill	8.71	4.145	Complete	Complete
99	MGL15101756R	124.4	3552	3502	Prime, Reshoot	0.64	4.050	Complete	Complete
99	MGL15101756R	124.4	3501	3245	Infill	3.21	4.320	Complete	Complete
100	MGL15102116S	304.4	2806	4100	Infill	16.19	3.970	Complete	Complete
100	MGL15102116S	304.4	4101	4154	Prime, Reshoot	0.68	4.293	Complete	Complete
100	MGL15102116S	304.4	4155	4743	Infill	7.36	4.106	Complete	Complete
100	MGL15102116S	304.4	4744	4793	Prime, Reshoot	0.62	3.969	Complete	Complete
100	MGL15102116S	304.4	4794	4803	Infill	0.12	3.645	Complete	Complete
Total						**47.11**			

Survey Progress (NJ3D)

Percentage of Prime Charged

99%

Prime Lines Completed

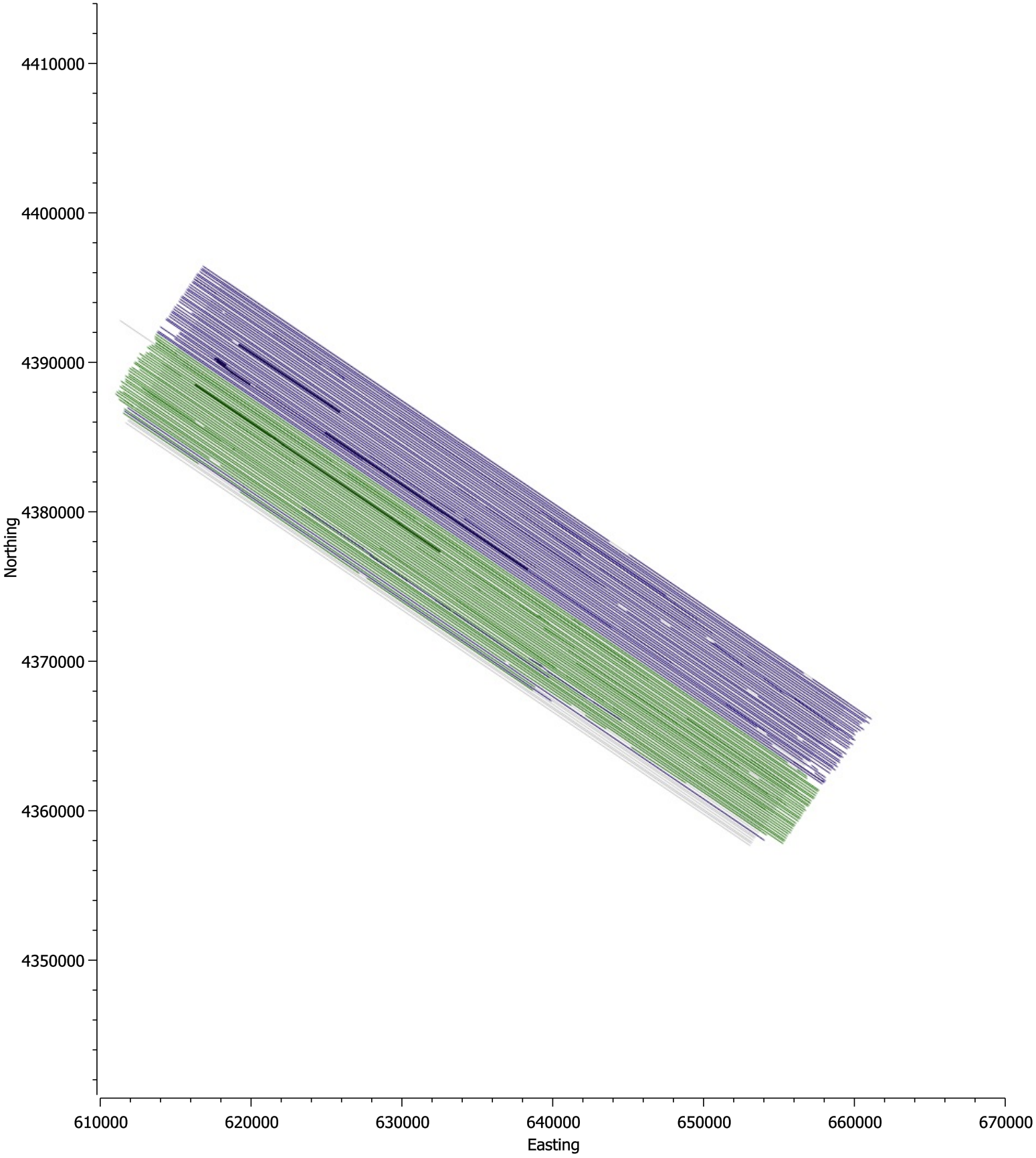
95%

Preplot Lines	Complete	Incomplete	Pending
79	75	0	0

Percentages Charged	
Prime	98.58% of 3935.19 km (Full fold)
Infill	9.24% of Charged Prime km (Sail Line)
	9.07% of Preplot km (Sail Line)

Average Daily Production	
Average Accepted Daily Prime and Infill Production	121.72 km
Average Charged Daily Prime and Infill Production	121.08 km

NJ3D: Accpt (5/29/2015 - 7/6/2015)



Daily Science Report

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

Client:	United States National Science Foundation	**Contractor:**	Lamont-Doherty Earth Observatory
Job No:	MGL1510	**Job No:**	MGL1510
Block:	NJ3D	**Vessel:**	Marcus G Langseth
Client Contact:	Greg Mountain	**Vessel Supervisor:**	Paul Ljunggren
Consultancy:		**Party Chiefs:**	Robert Steinhaus / Todd Jensvold
Job No:		**Client Reps:**	

Timing Diary (Marcus G Langseth, Mountain NJ3D)

Category	Code	Start	End	Duration
Demob Ashore	DM_DA	Tue 7. Jul 00:00	Tue 7. Jul 24:00	24.000
Demobilising ashore.				

Daily Comment Summaries - Daily Summary

Tue 07 Jul

The vessel remained alongside S UNY Maritime Collage NYC, NY. throughout the day. Unloaded P-Cable & NCS Navigation equipment to Dock. Relocated Head-Floats and Tailbuoys from Main Deck to OBS deck. Cleaned Lab Spaces. Received Shipments from LDEO. Participated in End of Mission Debrief with NCS president Larry Scott. Installed Desktop UPS on Machines in Main Lab.

Daily Comment Summaries - Plan for Tomorrow

Tue 07 Jul

The vessel will remain alongside SUNY Maritime Collage's facility and the crew will focus on Items from the work list. Continued to Clean and Secure Lab Spaces. Complete End of Mission Gravity Tie. Load P-Cable and NCS Navigation equipment on to Trucks to be returned to the vendors.

Daily Comment Summaries - Personnel Onboard

Tue 07 Jul

Technical Staff
Steinhaus Robert Chief Science Officer
Jensvold Todd Science Officer
Koprowski Robert Marine Tech (ACQ)
Thompson Alan Marine Tech (NAV)
Guerin Gilles Marine Tech (ACQ)
Traceski Shane Contract (NAV)
Curtis Klayton Contract (OBS)
Ard Ryan Contract NCS P-Cable Expert
Sommers Russell Contract NCS Navigator
Boudreaux Wayne Contract NCS Navigator
Hall Micah Contract NCS Nav Processor
White Robert Contract NCS Nav Processor
Spoto Thomas Chief Source Mechanic
Kasinger Josh Marine Tech (Source)
Hatton Ray Contract Source Mechanic
Hackett Tyler Mate Intern

PSO's
Dubuque Amanda Ella Contract RPS Lead PSO
Piko Amy Ann Contract RPS Lead PAM
Frey Cassandra Ashley Contract RPS PSO
O'Dea Shelia Contract RPS PSO
Schmitt Amy Katherine Contract RPS PSO

Science Party
None

Timing Breakdown Summary - Project (Marcus G Langseth, Mountain NJ3D)

Category	Hours	% Percent
DownTime	**158.717**	**16.533**
Cetacean	8.883	0.925
Nav Systems In-Sea	12.817	1.335
Nav Systems Onboard	0.217	0.023
Operator Error	0.033	0.003
Prime Extended L/C	1.700	0.177
Recording	12.167	1.267
Source	14.167	1.476
Streamers	108.483	11.300
Vessel	0.250	0.026
Demobilisation	**41.900**	**4.365**
Demob Ashore	25.433	2.649
Recovery	5.033	0.524
Transit From Prospect	11.433	1.191
Acquisition	**643.533**	**67.035**
Infill Line Change	16.683	1.738
Prime Extended L/C	4.233	0.441
Prime Line Change	79.517	8.283
Production Infill	31.800	3.312
Production Prime	511.300	53.260
Mobilisation	**115.850**	**12.068**
Mob Ashore	84.833	8.837
Reconfiguration	13.300	1.385
Testing	6.983	0.727
Transit to Prospect	10.733	1.118
Total	960.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 07 Jul

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Towing and Handling (Source):
No Major Issues to Report

General Purpose Science:
No Major Issues to Report

Miscellaneous:
No Major Issues to Report