

Daily Science Report

4/17/2019

Page 1, Revision 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Wed 17 Apr

Day was spent dockside: Loaded WHOI OBS van, PSO personnel arrived, continue building and testing source arrays
Plan to move late (local day) to begin taking fuel.

Daily Comment Summaries - Plan for Tomorrow

Wed 17 Apr

Planned to spend morning taking on fuel.
After returning from fuel barge, load on science personnel, continue testing equipment.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emporer)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Wed 17. Apr 00:00	Wed 17. Apr 24:00	24.000
Mobilizing Ashore.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emporer)

17-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Mob Ashore	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emporer)

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

Wed 17 Apr

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):
Troubleshooting of issues powering rGPS pods on source arrays 2 and 3

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General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 17 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Steve Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO
Andrea Zavala RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

4/18/2019

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Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Thu 18 Apr

Vessel began the day refueling, once completed moved back to U-H dock. Science party moved onboard. Performed orientation and safety briefing for all personnel.

Daily Comment Summaries - Plan for Tomorrow

Thu 18 Apr

Continue mobilizing equipment dockside and wait for container to be delivered.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emporer)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Thu 18. Apr 00:00	Thu 18. Apr 24:00	24.000
Mobilizing Ashore.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emporer)

18-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Mob Ashore	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emporer)

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

Thu 18 Apr

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):

Unable to resolve issue with rGPS on source bundle 3 d/t failure in bundle

General Purpose Science:

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No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Thu 18 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
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Lei, Mei - University of Houston
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Daily Science Report

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Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Fri 19 Apr

Standing by waiting for final container of equipment to arrive.
Continue rigging source arrays, testing seismic equipment, rigging for sea.

Daily Comment Summaries - Plan for Tomorrow

Fri 19 Apr

Continue standing by for final container to arrive.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emporer)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Fri 19. Apr 00:00	Fri 19. Apr 24:00	24.000
Mobilizing Ashore.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emporer)

19-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Mob Ashore	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emporer)

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

Fri 19 Apr

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):
Unable to resolve issue with rGPS on source bundle 3 d/t failure in bundle

General Purpose Science:

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No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Fri 19 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
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Lei, Mei - University of Houston
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Filbrandt, Christian - Geomar OBS Tech
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Kane, Timothy WHOI OBS tech

Daily Science Report

4/20/2019

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Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sat 20 Apr

Standing by waiting for final container of equipment to arrive.
Continue rigging source arrays, testing seismic equipment, rigging for sea.

Daily Comment Summaries - Plan for Tomorrow

Sat 20 Apr

Continue standing by for final container to arrive.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emporer)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Sat 20. Apr 00:00	Sat 20. Apr 24:00	24.000
Mobilizing Ashore.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emporer)

20-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Mob Ashore	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emporer)

Category	Hours	% Percent
Mobilisation	96.000	100.000
Mob Ashore	96.000	100.000
Total	96.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 20 Apr

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):
Unable to resolve issue with rGPS on source bundle 3 d/t failure in bundle

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sat 20 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
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Daily Science Report

4/21/2019

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Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sun 21 Apr

Standing by waiting for final container of equipment to arrive.
Continue rigging source arrays, testing seismic equipment, rigging for sea.

Daily Comment Summaries - Plan for Tomorrow

Sun 21 Apr

Continue standing by for final container to arrive.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Sun 21. Apr 00:00	Sun 21. Apr 24:00	24.000
Mobilizing Ashore.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

21-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Mob Ashore	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	120.000	100.000
Mob Ashore	120.000	100.000
Total	120.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 21 Apr

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):
Unable to resolve issue with rGPS on source bundle 3 d/t failure in bundle

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sun 21 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
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Daily Science Report

4/22/2019

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Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Mon 22 Apr

Final container arrived ~10AM local time. Crew immediately began emptying container dockside and craning equipment over to main deck. All gear secured for sea and ready for departure.

Daily Comment Summaries - Plan for Tomorrow

Mon 22 Apr

Depart Honolulu and begin transit to prospect area.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emporer)

Category	Code	Start	End	Duration
Mob Ashore	MB_MA	Mon 22. Apr 00:00	Mon 22. Apr 24:00	24.000
Mobilizing Ashore.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emporer)

22-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Mob Ashore	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emporer)

Category	Hours	% Percent
Mobilisation	144.000	100.000
Mob Ashore	144.000	100.000
Total	144.000	

Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 22 Apr

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:

Uncontaminated sea water pumps require clean out and rebuild before can be made operational.

Daily Comment Summaries - Personnel Onboard

Mon 22 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
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Fortin, Will - LDEO
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
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Kane, Timothy WHOI OBS tech

Daily Science Report

4/23/2019

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Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Tue 23 Apr

Vessel departed the dock ~14:04 local time, 00:04 UTC
Pilot was away at 14:42 local time, 00:42 UTC

Tested satellite capability for video conferencing.

Repaired uncontaminated sea water pump. Need to fix new leak in overboard plumbing.

Clean power generator up and running now.

Continued building gun strings.

Daily Comment Summaries - Plan for Tomorrow

Tue 23 Apr

Continue transiting.

Deploy first ARGO and Spooindrifter floats.

Test Sonar's.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Code	Start	End	Duration
 Transit to Prospect	MB_TT	Tue 23. Apr 00:00	Tue 23. Apr 24:00	24.000
In transit to prospect, for mobilizing deployment.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Empor)

23-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Mob Ashore	0.000	0.000
Transit to Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Hours	% Percent
Mobilisation	168.000	100.000
Mob Ashore	144.000	85.714

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Category	Hours	% Percent
Transit to Prospect	24.000	14.286
Total	168.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

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

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

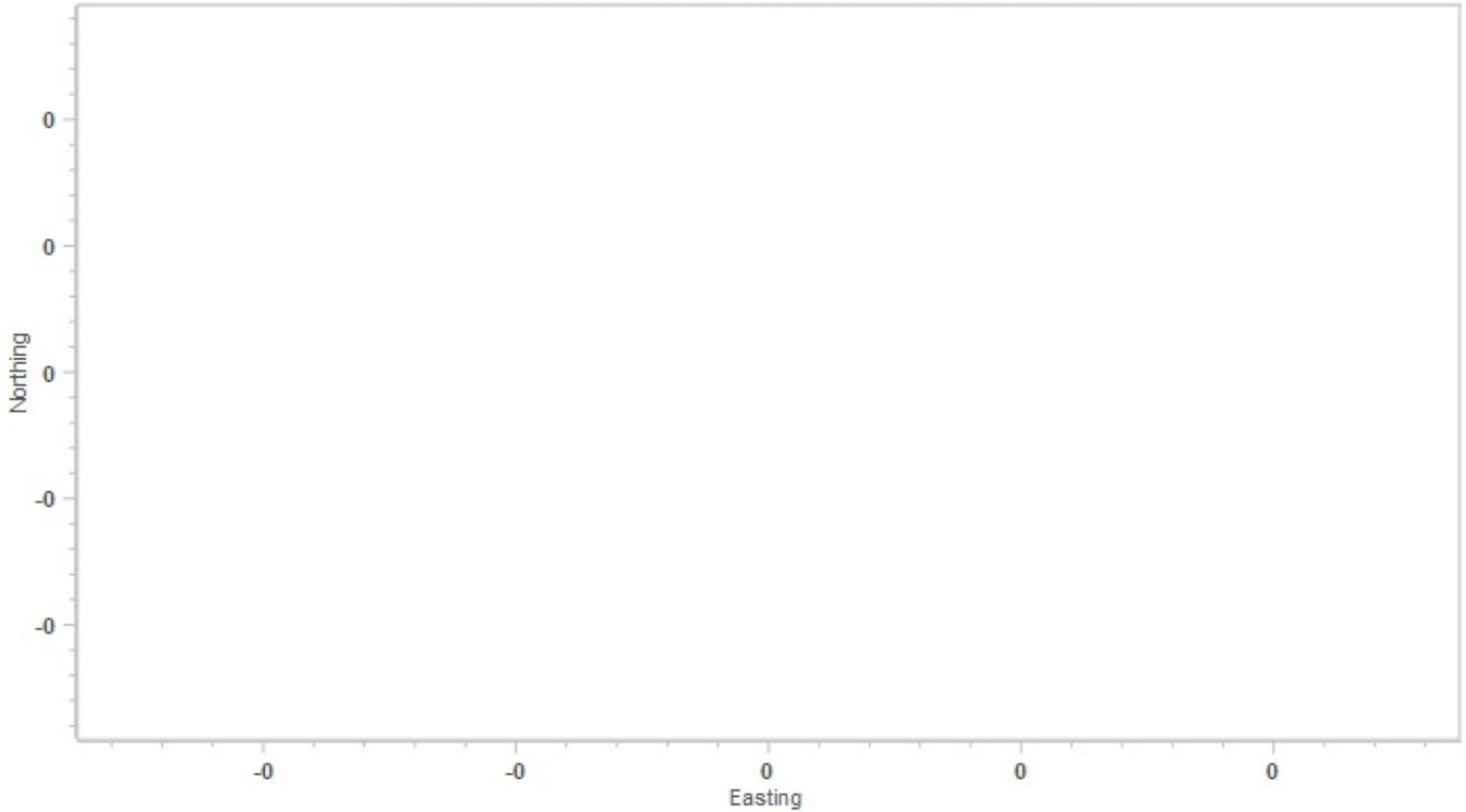
Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

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Empty Block: Chgd (4/17/2019 - 4/23/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 23 Apr

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

Daily Comment Summaries - Personnel Onboard

Tue 23 Apr

Technical Staff On-board the Langseth

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Josh Kasinger L-DEO OMO Chief Source Mechanic

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Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Tue Apr 23 2019 02:00p.m.

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Daily Science Report

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Andrea Zavala RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
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4/24/2019

Page 1

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Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Wed 24 Apr

Slowed vessel to deploy first Argo station, Spoon drifter, and XBT-T5

Tested sonars for several hours this morning.

Both uncontaminated sea water pumps are operational again.

Click tested guns.

Daily Comment Summaries - Plan for Tomorrow

Wed 24 Apr

Continue transit to prospect area.

Stop to perform acoustic tests for GEOMAR OBS's. We will do two casts down to 2000 meters with CTD winch.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emporer)



Category	Code	Start	End	Duration
Transit to Prospect	MB_TT	Wed 24. Apr 00:00	Wed 24. Apr 12:34	12.567
In transit to prospect, for mobilizing deployment.				
Deployment	MB_DP	Wed 24. Apr 12:34	Wed 24. Apr 12:40	0.100
Deploy Argo unit, Deploy Spoon Drifter, Deploy XBT				
Transit to Prospect	MB_TT	Wed 24. Apr 12:40	Wed 24. Apr 24:00	11.333
In transit to prospect, for mobilising deployment.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emporer)

24-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Deployment	0.100	0.417
Transit to Prospect	23.900	99.583
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emporer)

Category	Hours	% Percent
Mobilisation	192.000	100.000
Deployment	0.100	0.052

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Category	Hours	% Percent
Mob Ashore	144.000	75.000
Transit to Prospect	47.900	24.948
Total	192.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

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

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

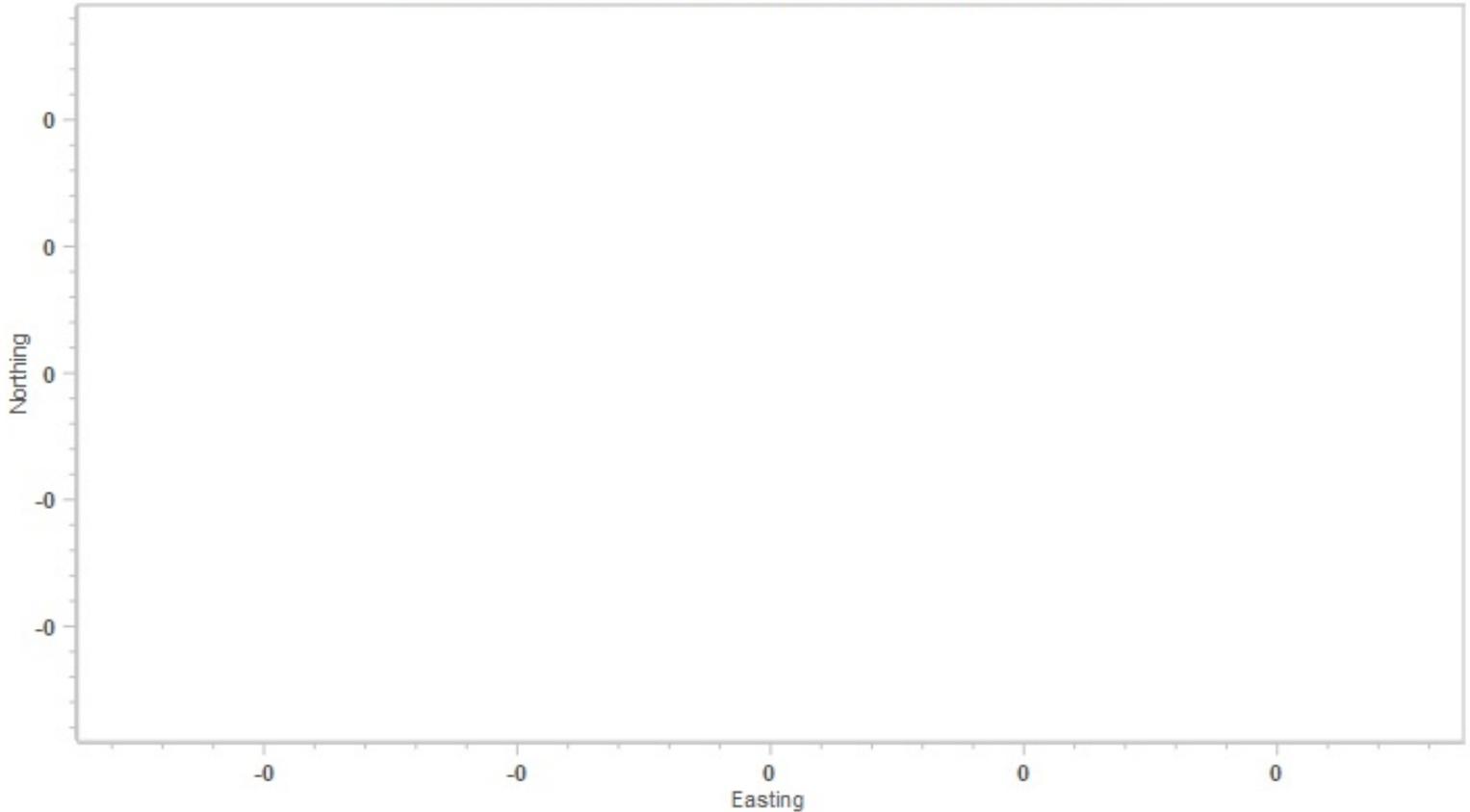
Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Daily Science Report

4/24/2019

Page 3

Empty Block: Chgd (4/17/2019 - 4/24/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 24 Apr

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

Daily Comment Summaries - Personnel Onboard

Wed 24 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Wed Apr 24 2019 12:51p.m.

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Daily Science Report

4/24/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

4/25/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Thu 25 Apr

Performed two CTD winch casts to test acoustic release units from Geomar.
Deployed second Argo and Spoon drifter.

Daily Comment Summaries - Plan for Tomorrow

Thu 25 Apr

Continue transit to prospect area.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Code	Start	End	Duration
Transit to Prospect	MB_TT	Thu 25. Apr 00:00	Thu 25. Apr 24:00	24.000
In transit to prospect, for mobilizing deployment.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

25-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Transit to Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	216.000	100.000
Deployment	0.100	0.046
Mob Ashore	144.000	66.667
Transit to Prospect	71.900	33.287
Total	216.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m

Daily Science Report

4/25/2019

Page 2

MGL1902_Shillington_Emperor					
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment	
Emperor Sea Mounts	

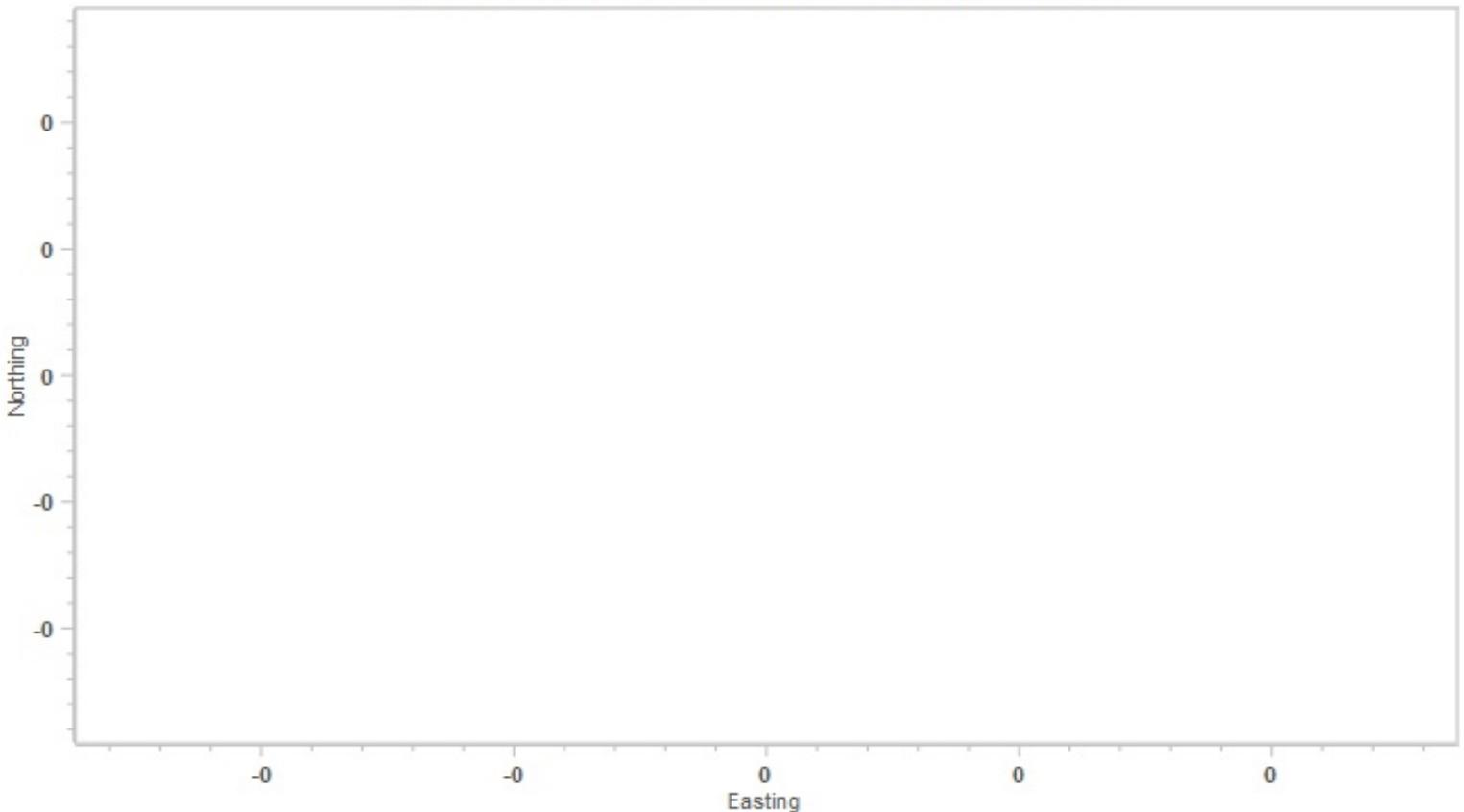
Production Listing (Acpt km) - Prime: Sail Line, Infill: Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Empty Block: Chgd (4/17/2019 - 4/25/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 25 Apr

Navigation:

No Major Issues to Report

Daily Science Report

4/25/2019

Page 3

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:

Identified cause of minor power problem to TSG, ships electrician to make necessary repairs.

Daily Comment Summaries - Personnel Onboard

Thu 25 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
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Fortin, Will - LDEO
Tsekhnistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

4/26/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Fri 26 Apr

Deployed third Argo and Spoon drifter.

MOB drill and presentation of MOB equipment.

Stbd main engine taken off line briefly for repairs.

Ongoing risk assessment discussions for weather and sea state.

Daily Comment Summaries - Plan for Tomorrow

Fri 26 Apr

Continue transit to prospect.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Code	Start	End	Duration
Transit to Prospect	MB_TT	Fri 26. Apr 00:00	Fri 26. Apr 24:00	24.000
In transit to prospect, for mobilizing deployment.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Empor)

26-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Transit to Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Hours	% Percent
Mobilisation	240.000	100.000
Deployment	0.100	0.042
Mob Ashore	144.000	60.000
Transit to Prospect	95.900	39.958
Total	240.000	

Basic Project Details

MGL1902_Shillington_Empor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m

Daily Science Report

4/26/2019

Page 2

MGL1902_Shillington_Emperor					
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

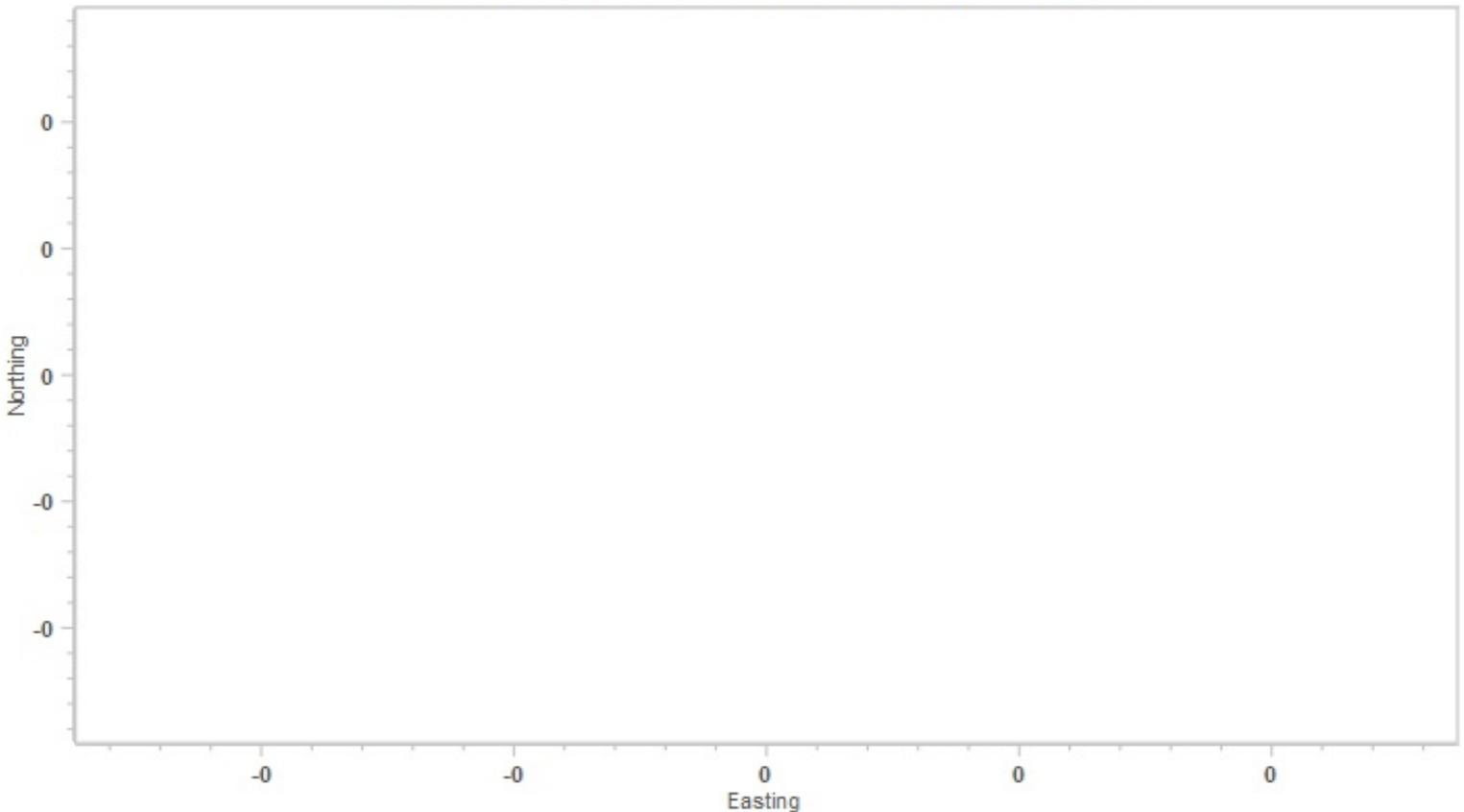
Production Listing (Acpt km) - Prime: Sail Line, Infill: Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Empty Block: Chgd (4/17/2019 - 4/26/2019)MGL1902_Shillington_Emperor



Daily Science Report

4/26/2019

Page 3

Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 26 Apr

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

Daily Comment Summaries - Personnel Onboard

Fri 26 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

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Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

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Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

4/27/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sat 27 Apr

Deployed fourth Argo and Spoon drifter.

Toolbox meeting to discuss building GeoMar OBS's.

We have been making slow speeds due to weather and sea state. Averaging 6-8 knots.

Daily Comment Summaries - Plan for Tomorrow

Sat 27 Apr

Continue transit to prospect.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emeror)



Category	Code	Start	End	Duration
Transit to Prospect	MB_TT	Sat 27. Apr 00:00	Sat 27. Apr 24:00	24.000
In transit to prospect, for mobilizing deployment.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emeror)

27-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Transit to Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emeror)

Category	Hours	% Percent
Mobilisation	264.000	100.000
Deployment	0.100	0.038
Mob Ashore	144.000	54.545
Transit to Prospect	119.900	45.417
Total	264.000	

Daily Science Report

4/27/2019

Page 2

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

Production Listing (Acpt km) - Prime: Sail Line, Infill: Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

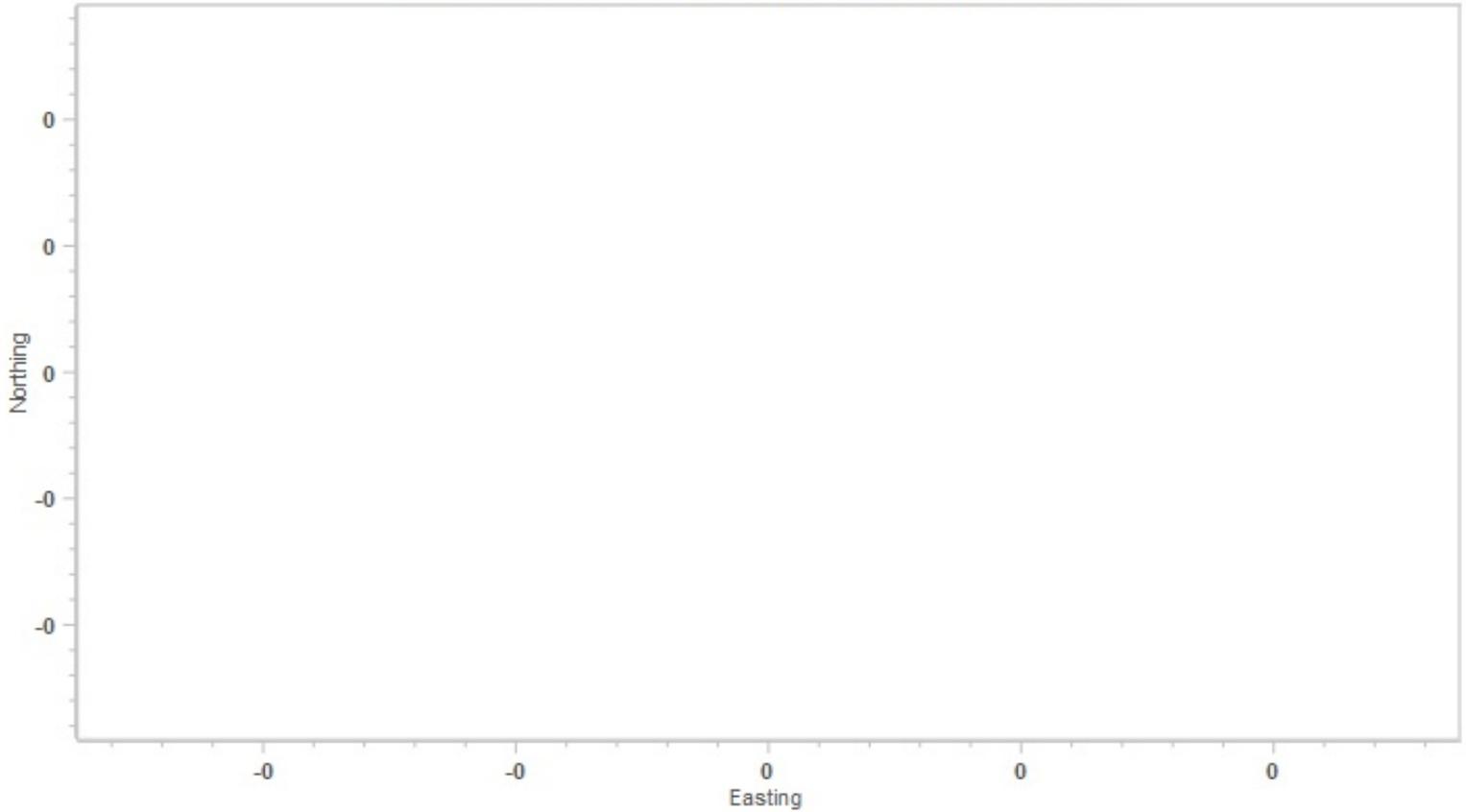
Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Daily Science Report

4/27/2019

Page 3

Empty Block: Chgd (4/17/2019 - 4/27/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 27 Apr

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

Daily Comment Summaries - Personnel Onboard

Sat 27 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Sat Apr 27 2019 07:45p.m.

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Daily Science Report

4/27/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

4/28/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sun 28 Apr

We assembled the first eight GEOMAR OBS's. They are secured and ready for deployment.

Transit speeds have improved today with the sea state.

Daily Comment Summaries - Plan for Tomorrow

Sun 28 Apr

Continue transit to prospect.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emeror)

Category	Code	Start	End	Duration
Transit to Prospect	MB_TT	Sun 28. Apr 00:00	Sun 28. Apr 24:00	24.000
In transit to prospect, for mobilising deployment.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emeror)

28-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Transit to Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emeror)

Category	Hours	% Percent
Mobilisation	288.000	100.000
Deployment	0.100	0.035
Mob Ashore	144.000	50.000
Transit to Prospect	143.900	49.965
Total	288.000	

Basic Project Details

MGL1902_Shillington_Emeror					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		

Daily Science Report

4/28/2019

Page 2

MGL1902_Shillington_Emperor					
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

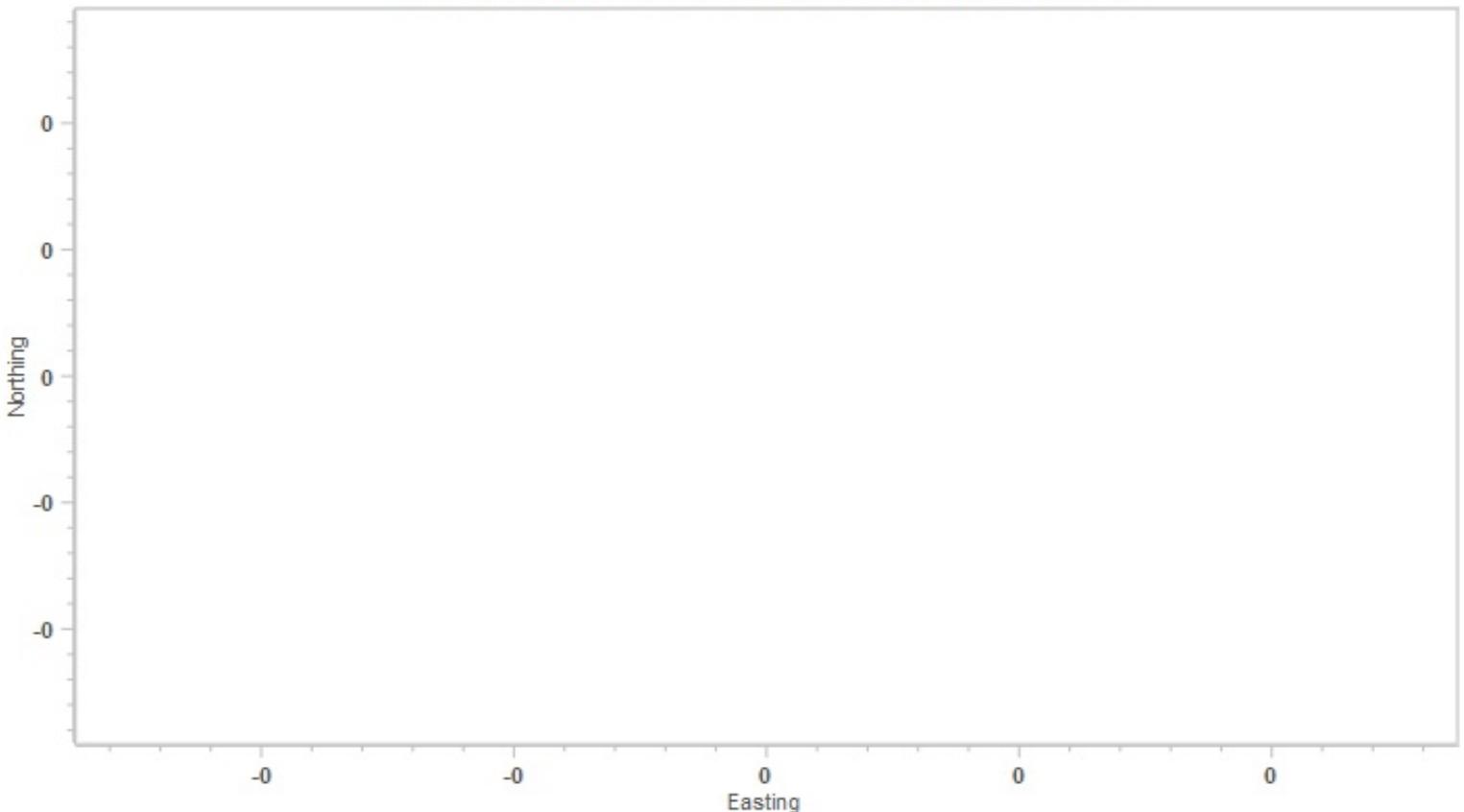
Production Listing (Accpt km) - Prime: Sail Line, Infill: Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Empty Block: Chgd (4/17/2019 - 4/28/2019)MGL1902_Shillington_Emperor



Daily Science Report

4/28/2019

Page 3

Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 28 Apr

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

Daily Comment Summaries - Personnel Onboard

Sun 28 Apr

Technical Staff On-board the Langseth

Todd Jensvold LDEO OMO Chief Science Officer

Josh Kasinger LDEO OMO Chief Source Mechanic

Alan Thompson LDEO OMO Marine Science Technician - Nav

Shaun Shaver LDEO OMO Marine Science Technician - Source

Gilles Guerin LDEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (Nav)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

Andrea Zavala RPS PAM / PSO

Ana Hernandez RPS PSO

Veronica Gonzales RPS PSO

Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI

Watts, Anthony Oxford PI

Dunn, Robert University of Hawaii PI

Boston, Brian - LDEO

Cortes-Rivas, Valeria - University of Chile

Fortin, Will - LDEO

Tsekhmistrenko, Maria - Oxford

Harper, Hugh - Scripps

Lei, Mei - University of Houston

Nyugen, Luan - Rice University

Leebum, Jeff - PSU

Filbrandt, Christian - Geomar OBS Tech

Gomez Laura - Geomar OBS Tech

Schroeder, Patrick - Geomar OBS Tech

Kane, Timothy WHOI OBS Tech

Daily Science Report

4/29/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Mon 29 Apr

Continue transit to prospect.

Deployed Argo and spoon drifter floats.

Daily Comment Summaries - Plan for Tomorrow

Mon 29 Apr

Continue transit to prospect.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emeror)

Category	Code	Start	End	Duration
 Transit to Prospect	MB_TT	Mon 29. Apr 00:00	Mon 29. Apr 24:00	24.000
In transit to prospect, for mobilising deployment.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emeror)

29-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Transit to Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emeror)

Category	Hours	% Percent
Mobilisation	312.000	100.000
Deployment	0.100	0.032
Mob Ashore	144.000	46.154
Transit to Prospect	167.900	53.814
Total	312.000	

Basic Project Details

MGL1902_Shillington_Emeror					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		

Daily Science Report

4/29/2019

Page 2

MGL1902_Shillington_Emperor					
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

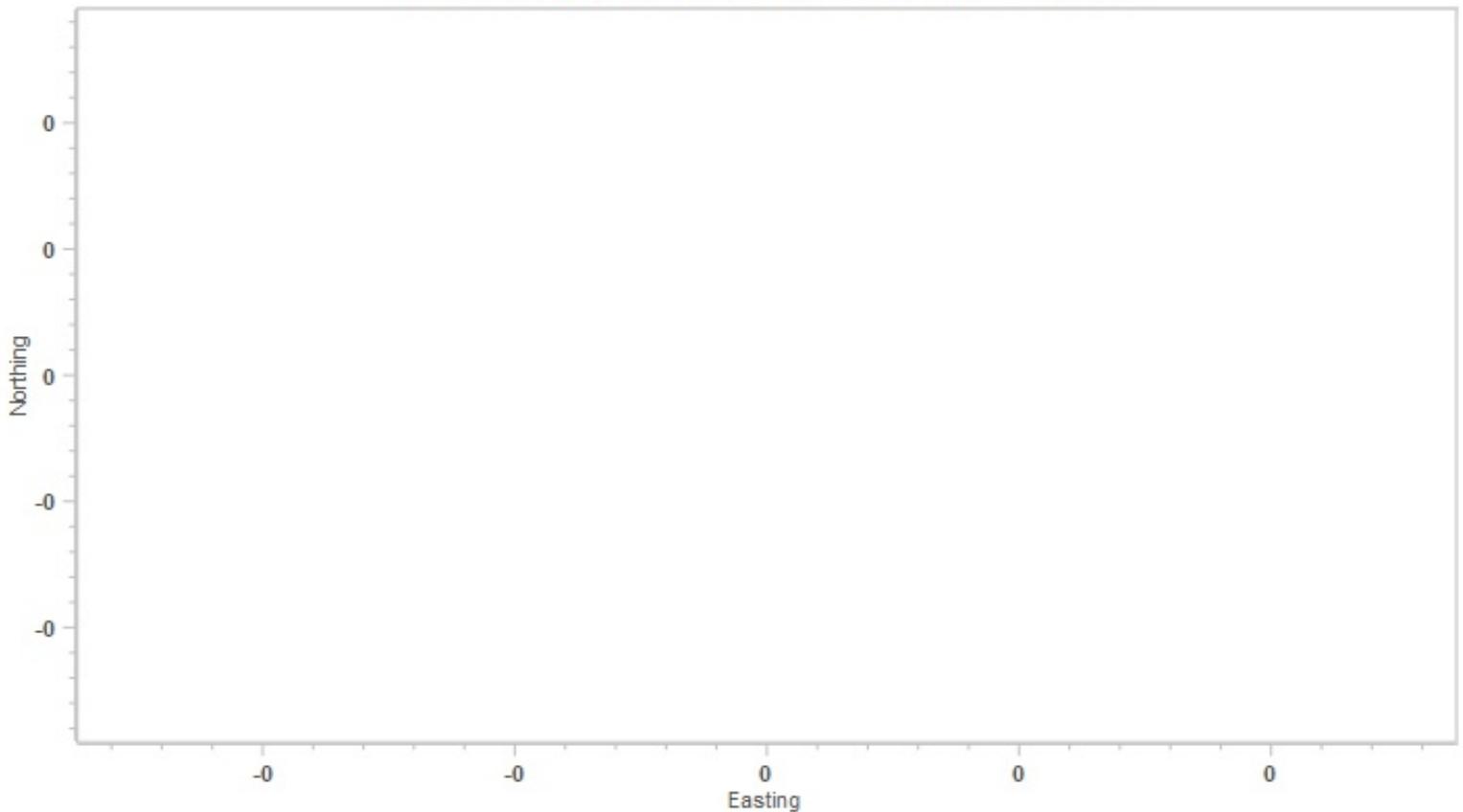
Production Listing (Accpt km) - Prime: Sail Line, Infill: Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Empty Block: Chgd (4/17/2019 - 4/29/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 29 Apr

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):

Welded guards onto new manifolds.

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Mon 29 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
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Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

4/30/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Tue 30 Apr

Continue transit to prospect.

Deployed spoon drifter float.

Ran compressors and pressurized the source. Checked for leaks.

General preparations for OBS deployments.

Daily Comment Summaries - Plan for Tomorrow

Tue 30 Apr

Continue transit to prospect.

Begin acquiring multi-beam data.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Code	Start	End	Duration
Transit to Prospect	MB_TT	Tue 30. Apr 00:00	Tue 30. Apr 24:00	24.000
In transit to prospect, for mobilising deployment.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Empor)

30-Apr	Hours	% Percent
Mobilisation	24.000	100.000
Transit to Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Hours	% Percent
Mobilisation	336.000	100.000
Deployment	0.100	0.030
Mob Ashore	144.000	42.857
Transit to Prospect	191.900	57.113
Total	336.000	

Daily Science Report

4/30/2019

Page 2

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

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

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

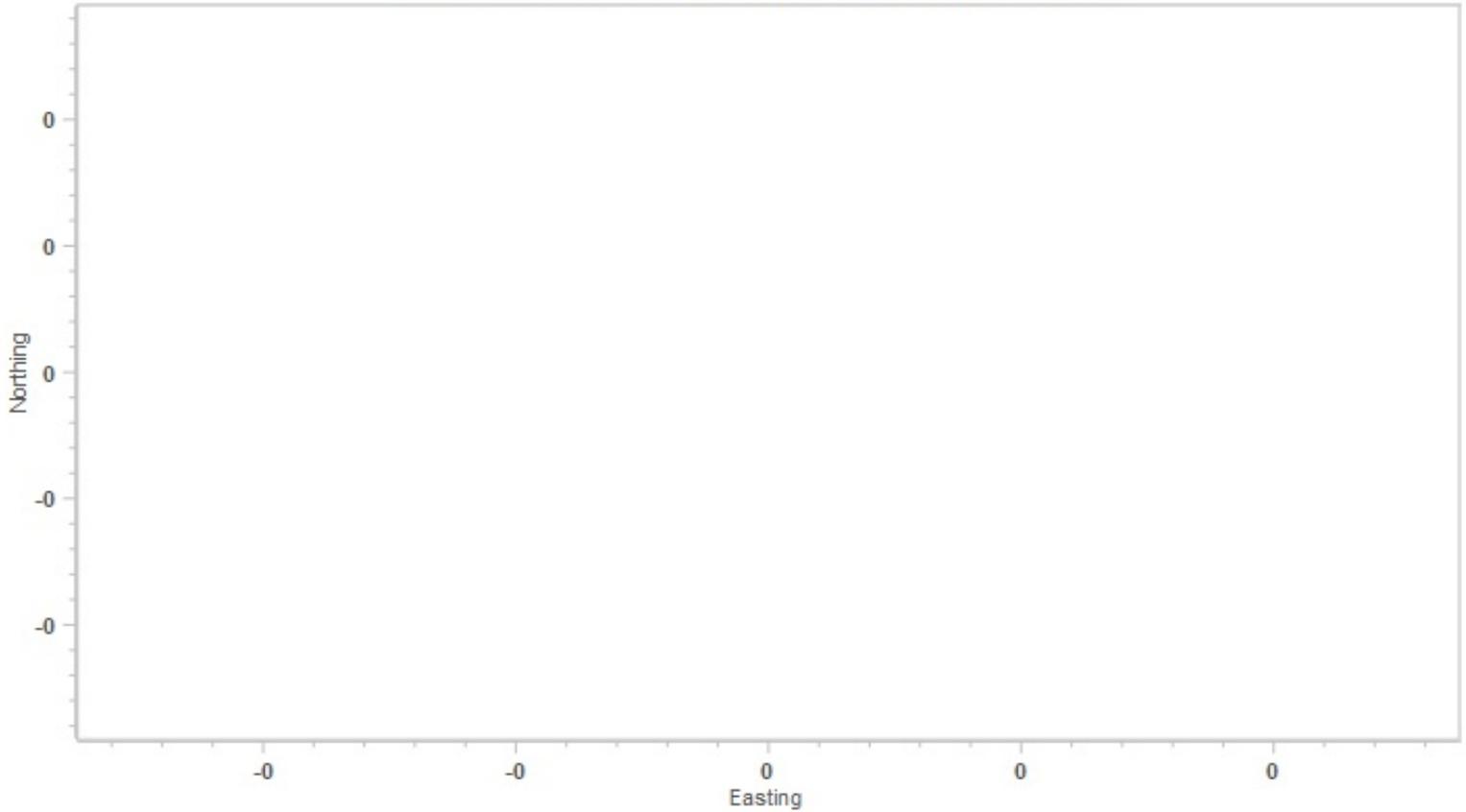
Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Daily Science Report

4/30/2019

Page 3

Empty Block: Chgd (4/17/2019 - 4/30/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 30 Apr

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

Daily Comment Summaries - Personnel Onboard

Tue 30 Apr

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Tue Apr 30 2019 02:45p.m.

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Daily Science Report

4/30/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/1/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Wed 01 May

Continue transit to prospect.
 Safety walk-through completed. Preparing for building seas and OBS deployments.
 Reviewed OBS deployment procedures.

Daily Comment Summaries - Plan for Tomorrow

Wed 01 May

Begin deployment of OBS's

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Transit to Prospect	MB_TT	Wed 1. May 00:00	Wed 1. May 24:00	24.000
In transit to prospect, for mobilising deployment.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

1-May	Hours	% Percent
Mobilisation	24.000	100.000
Transit to Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	360.000	100.000
Deployment	0.100	0.028
Mob Ashore	144.000	40.000
Transit to Prospect	215.900	59.972
Total	360.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		

Daily Science Report

5/1/2019

Page 2

MGL1902_Shillington_Emperor					
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

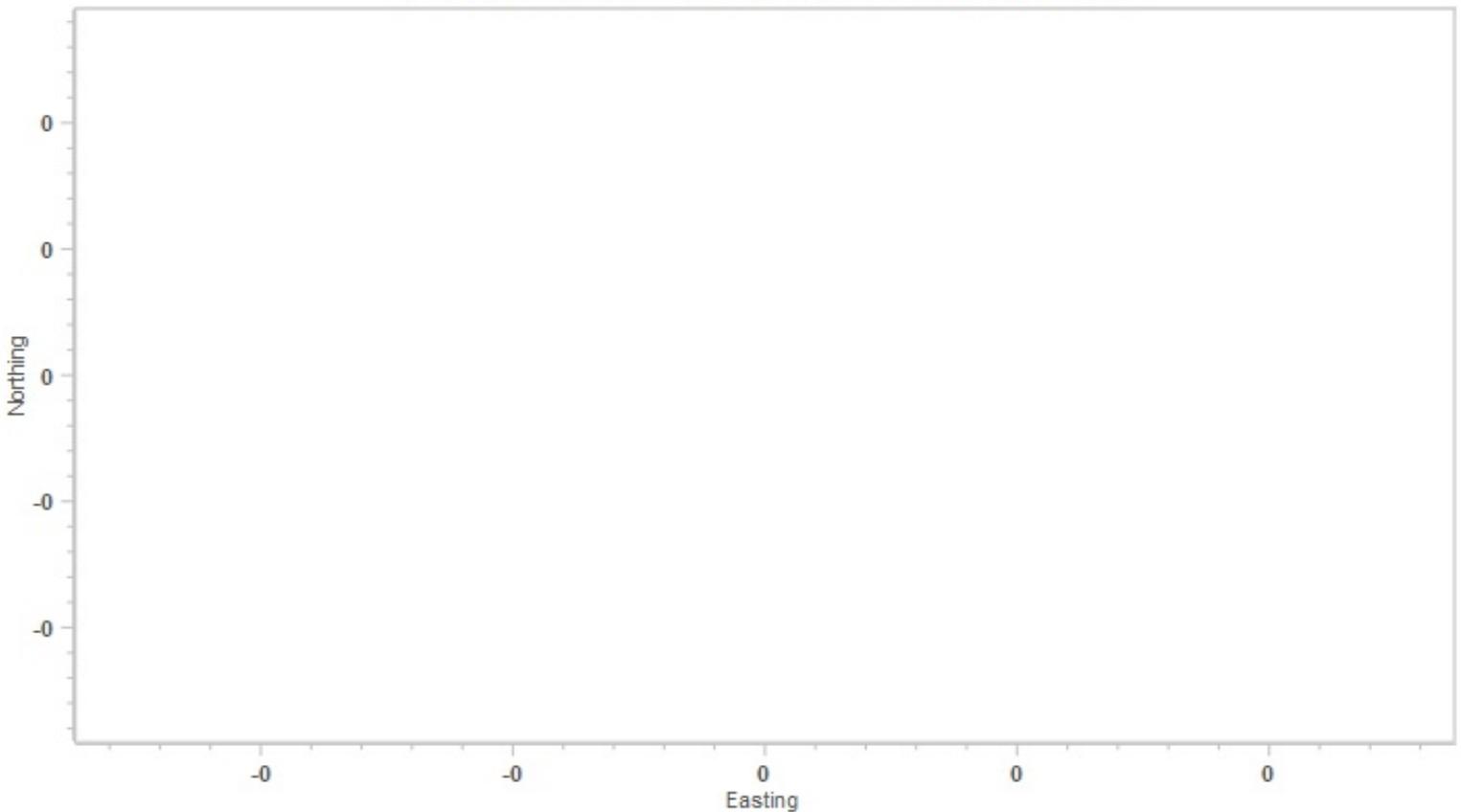
Production Listing (Accpt km) - Prime: Sail Line, Infill: Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Empty Block: Chgd (4/17/2019 - 5/1/2019)MGL1902_shillington_Emperor



Daily Science Report

5/1/2019

Page 3

Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 01 May

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (OBS):

Missing two pressure caps for GEOMAR OBS pressure tubes.

Towing and Handling (Source):

No Major Issues to Report

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 01 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

Andrea Zavaia RPS PAM / PSO

Ana Hernandez RPS PSO

Veronica Gonzales RPS PSO

Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI

Watts, Anthony Oxford PI

Dunn, Robert University of Hawaii PI

Boston, Brian - LDEO

Cortes-Rivas, Valeria - University of Chil

Fortin, Will - LDEO

Tsekhmistrenko, Maria - Oxford

Harper, Hugh - Scripps

Lei, Mei - University of Houston

Nyugen, Luan - Rice University

Leebum, Jeff - PSU

Filbrandt, Christian - Geomar OBS Tech

Gomez Laura - Geomar OBS Tech

Schroeder, Patrick - Geomar OBS Tech

Kane, Timothy WHOI OBS tech

Daily Science Report

5/2/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:		Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Thu 02 May

We have deployed the first four OBS's. The weather has picked up considerably. We will continue to assess the safety of the crew working on the deck during the deployments.

Daily Comment Summaries - Plan for Tomorrow

Thu 02 May

Continue deploying OBS's

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Transit to Prospect	MB_TT	Thu 2. May 00:00	Thu 2. May 19:25	19.417
In transit to prospect, for mobilising deployment.				
Deployment	MB_DP	Thu 2. May 19:25	Thu 2. May 20:41	1.267
Deploy OBS 130 and transit to OBS 129				
Deployment	MB_DP	Thu 2. May 20:41	Thu 2. May 21:54	1.217
Deploy OBS 129 and transit to OBS 128				
Deployment	MB_DP	Thu 2. May 21:54	Thu 2. May 23:13	1.317
Deploy OBS 128 and transit to OBS 127				
Deployment	MB_DP	Thu 2. May 23:13	Thu 2. May 24:00	0.783
Deploy OBS 126 and transit to OBS 125				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

2-May	Hours	% Percent
Mobilisation	24.000	100.000
Deployment	4.583	19.097
Transit to Prospect	19.417	80.903
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	384.000	100.000
Deployment	4.683	1.220
Mob Ashore	144.000	37.500
Transit to Prospect	235.317	61.280

Daily Science Report

5/2/2019

Page 2

Category	Hours	% Percent
Total	384.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

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

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

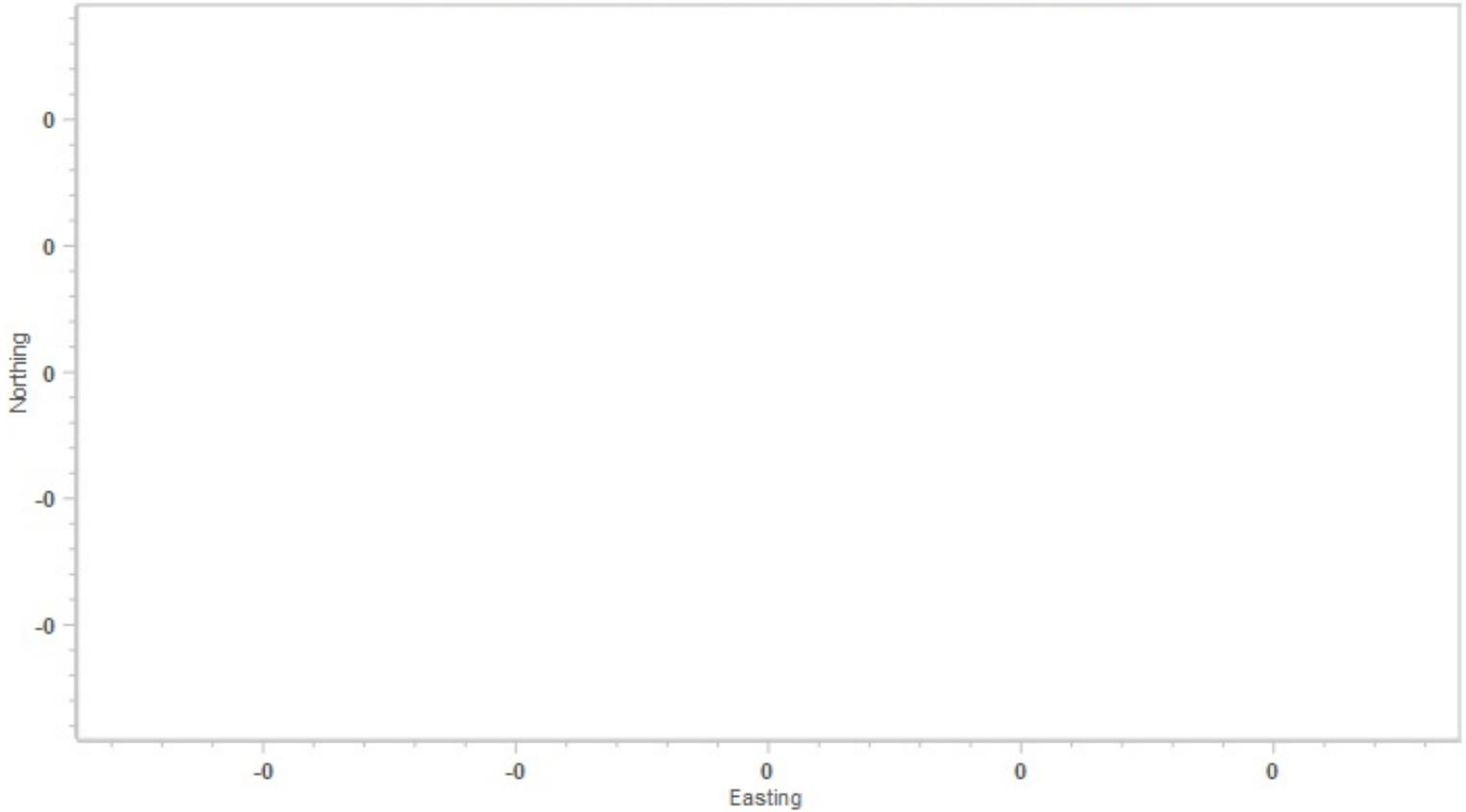
Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Daily Science Report

5/2/2019

Page 3

Empty Block: Chgd (4/17/2019 - 5/2/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 02 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

Daily Comment Summaries - Personnel Onboard

Thu 02 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Thu May 2 2019 01:54p.m.

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Daily Science Report

5/2/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/3/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Fri 03 May

We have deployed 22 OBS's by 03:00 UTC. The weather has picked up considerably.

Daily Comment Summaries - Plan for Tomorrow

Fri 03 May

Continue deployment of OBS's and source arrays, weather permitting.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Deployment	MB_DP	Fri 3. May 00:00	Fri 3. May 00:21	0.350
Continue transit to OBS 126				
Deployment	MB_DP	Fri 3. May 00:21	Fri 3. May 01:39	1.300
Deploy OBS 126 and transit to OBS 125				
Deployment	MB_DP	Fri 3. May 01:39	Fri 3. May 02:58	1.317
Deploy OBS 125 and transit to OBS 124				
Weather	NC_WX	Fri 3. May 02:58	Fri 3. May 08:45	5.783
Standby due to weather. Winds SW 30-45 knots, Seas 12-18ft				
Deployment	MB_DP	Fri 3. May 08:45	Fri 3. May 09:45	1.000
Deploy OBS 124 and transit to OBS 123				
Deployment	MB_DP	Fri 3. May 09:45	Fri 3. May 11:05	1.333
Deploy OBS 123 and transit to OBS 122				
Deployment	MB_DP	Fri 3. May 11:05	Fri 3. May 12:14	1.150
Deploy OBS 122 and transit to OBS 121				
Deployment	MB_DP	Fri 3. May 12:14	Fri 3. May 13:07	0.883
Deploy OBS 121 and transit to OBS 120				
Deployment	MB_DP	Fri 3. May 13:07	Fri 3. May 14:09	1.033
Deploy OBS 120 and transit to OBS 119				
Deployment	MB_DP	Fri 3. May 14:09	Fri 3. May 15:13	1.067
Deploy OBS 119 and transit to OBS 118				
Deployment	MB_DP	Fri 3. May 15:13	Fri 3. May 16:11	0.967
Deploy OBS 118 and transit to OBS 117				
Deployment	MB_DP	Fri 3. May 16:11	Fri 3. May 17:13	1.033
Deploy OBS 117 and transit to OBS 116				

Daily Science Report

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Page 2

Category	Code	Start	End	Duration
Deployment	MB_DP	Fri 3. May 17:13	Fri 3. May 18:32	1.317
Deploy OBS 116 and transit to OBS 115				
Deployment	MB_DP	Fri 3. May 18:32	Fri 3. May 19:47	1.250
Deploy OBS 115 and transit to OBS 114				
Deployment	MB_DP	Fri 3. May 19:47	Fri 3. May 20:46	0.983
Deploy OBS 114 and transit to OBS 113				
Deployment	MB_DP	Fri 3. May 20:46	Fri 3. May 21:49	1.050
Deploy OBS 113 and transit to OBS 112				
Deployment	MB_DP	Fri 3. May 21:49	Fri 3. May 23:02	1.217
Deploy OBS 112 and transit to OBS 111				
Deployment	MB_DP	Fri 3. May 23:02	Fri 3. May 24:00	0.967
Deploy OBS 111 and transit to OBS 110				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

3-May	Hours	% Percent
Mobilisation	18.217	75.903
Deployment	18.217	75.903
Non-Chargeable StandBy	5.783	24.097
Weather	5.783	24.097
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	402.217	98.583
Deployment	22.900	5.613
Mob Ashore	144.000	35.294
Transit to Prospect	235.317	57.676
Non-Chargeable StandBy	5.783	1.417
Weather	5.783	1.417
Total	408.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m

Daily Science Report

5/3/2019

Page 3

MGL1902_Shillington_Emperor					
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

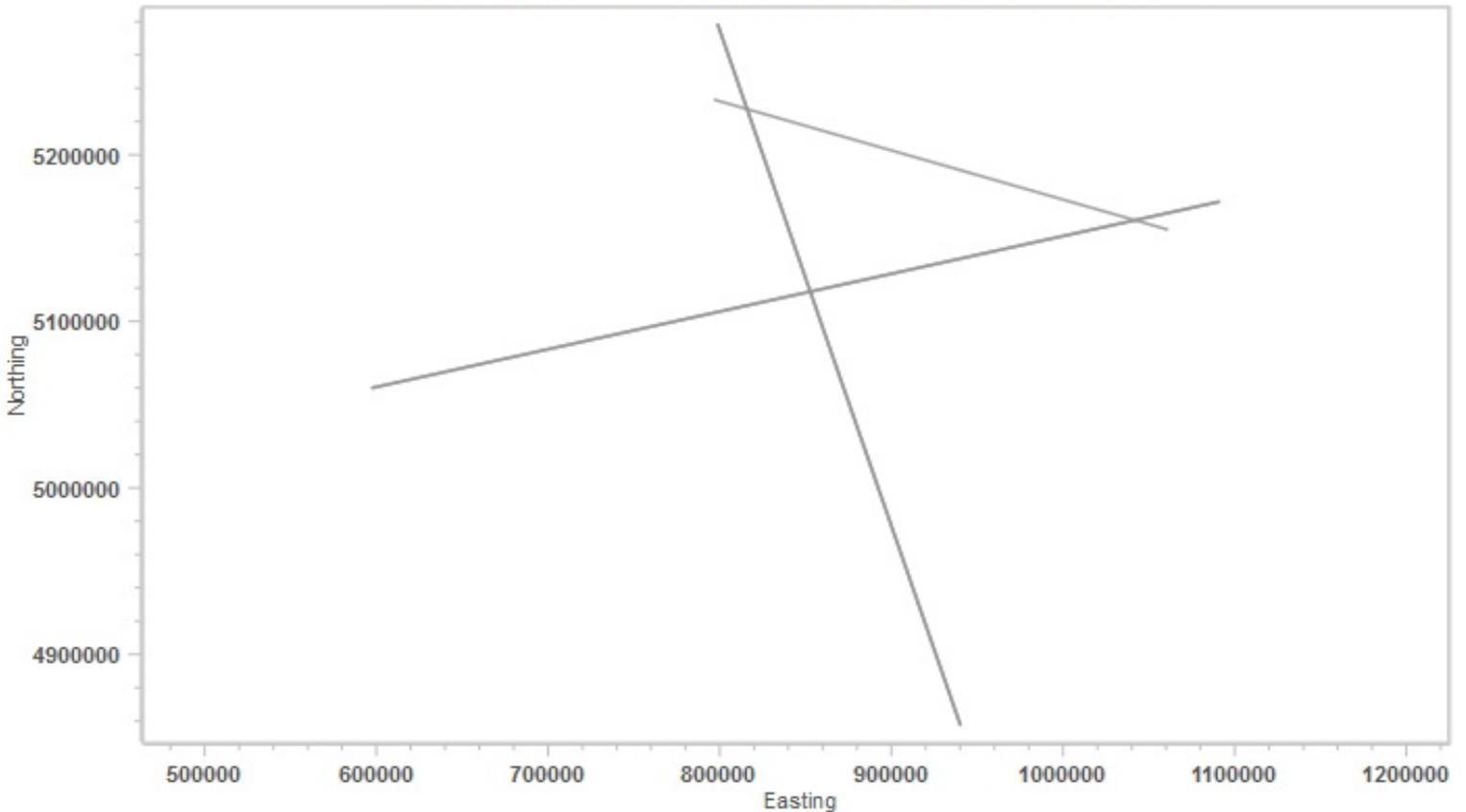
Production Listing (Accpt km) - Prime: Sail Line, Infill: Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Emperor Sea Mounts: Chgd (4/17/2019 - 5/3/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 03 May

Navigation:
No Major Issues to Report

Information Technology (IT):
No Major Issues to Report

Acquisition (OBS):
No Major Issues to Report

Daily Science Report

5/3/2019

Page 4

Towing and Handling (Source):

No Major Issues to Report

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Fri 03 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/4/2019

Page 2

Category	Hours	% Percent
Weather	26.617	6.161
Total	432.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

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

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Chgd km) - Prime: Sail Line, Infill: Full Fold

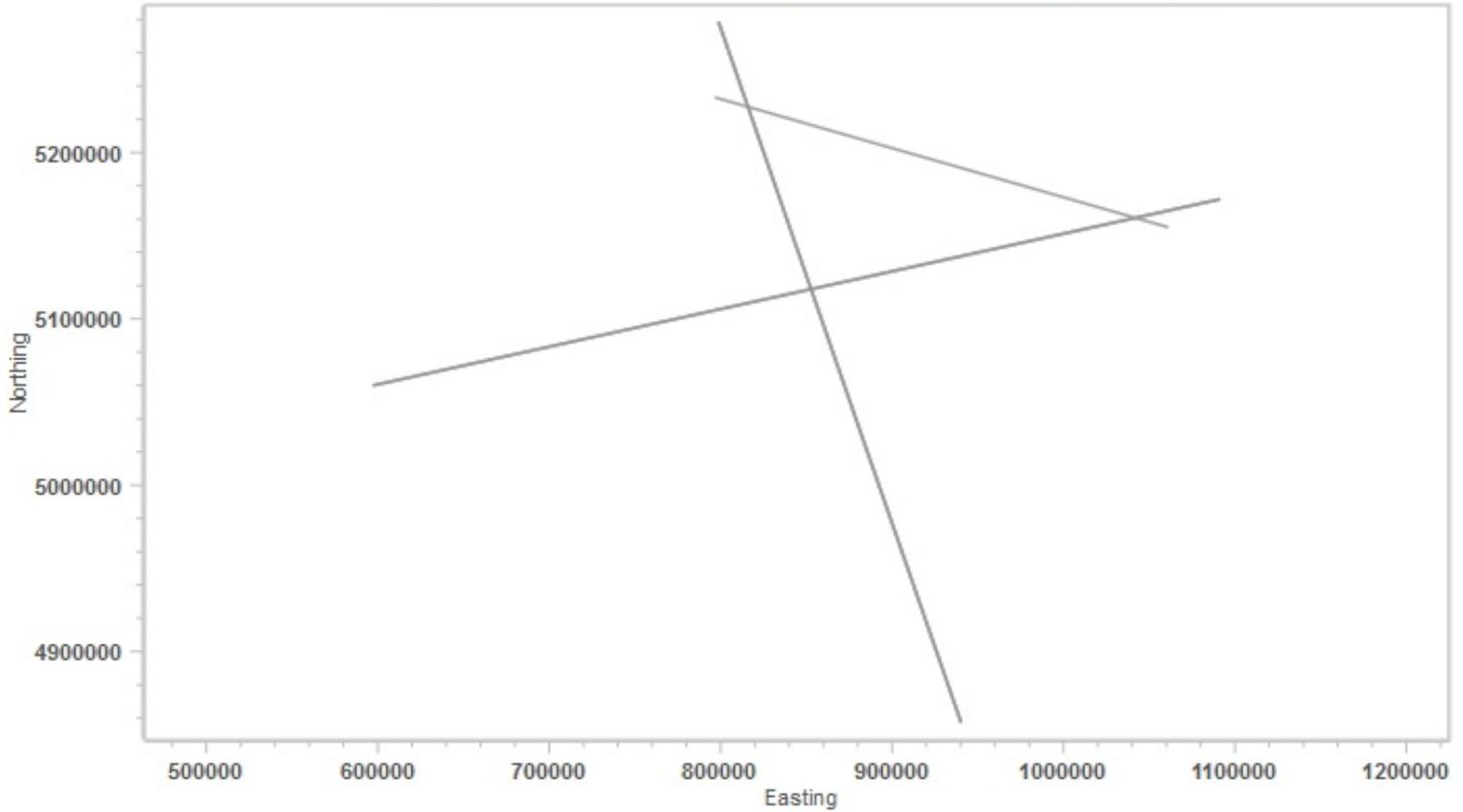
Charged km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	0.00
Combined	0.00	0.00	0.00	0.00

Daily Science Report

5/4/2019

Page 3

Emperor Sea Mounts: Chgd (4/17/2019 - 5/4/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 04 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

Daily Comment Summaries - Personnel Onboard

Sat 04 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Sat May 4 2019 04:17p.m.

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Daily Science Report

5/4/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/5/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sun 05 May

We deployed the last of the OBS's, Magnetometer, PAM cable and the Source Array. We began production on line MGL1902 OB01 at 22:01 UTC.

We changed nine tow points on the source sub array's, several solenoids, pigtailed and jumpers during the deployment.

We estimate the finish of this line in approximately 2.5 days. (Wednesday, May 8th).

Daily Comment Summaries - Plan for Tomorrow

Sun 05 May

Continue acquiring line MGL1902 OB01

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Weather	NC_WX	Sun 5. May 00:00	Sun 5. May 00:56	0.933
Standby due to weather. Made several aborted attempts to deploy OBS's. Wind and seas were too strong.				
Deployment	MB_DP	Sun 5. May 00:56	Sun 5. May 02:13	1.283
Deploy OBS 108 and transit to OBS 107				
Deployment	MB_DP	Sun 5. May 02:13	Sun 5. May 03:45	1.533
Deploy OBS 107 and transit to OBS 106				
Deployment	MB_DP	Sun 5. May 03:45	Sun 5. May 05:14	1.483
Deploy OBS 106 and transit to OBS 105				
Deployment	MB_DP	Sun 5. May 05:14	Sun 5. May 06:42	1.467
Deploy OBS 105 and transit to OBS 104				
Deployment	MB_DP	Sun 5. May 06:42	Sun 5. May 08:03	1.350
Deploy OBS 104 and transit to OBS 103				
Deployment	MB_DP	Sun 5. May 08:03	Sun 5. May 08:13	0.167
Deploy OBS 103. All OBS's deployed onto Line MGL1902 OB01				
Deployment	MB_DP	Sun 5. May 08:13	Sun 5. May 09:27	1.233
Securing decks, preparing to deploy source arrays.				
Deployment	MB_DP	Sun 5. May 09:27	Sun 5. May 10:11	0.733
Deploying Magnetometer and PAM cables.				
Deployment	MB_DP	Sun 5. May 10:11	Sun 5. May 12:11	2.000

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Category	Code	Start	End	Duration
Deploying sub array #4				
Deployment	MB_DP	Sun 5. May 12:11	Sun 5. May 13:04	0.883
Deploying sub array #3				
Deployment	MB_DP	Sun 5. May 13:04	Sun 5. May 14:35	1.517
Deploying sub array #1				
Deployment	MB_DP	Sun 5. May 14:35	Sun 5. May 15:35	1.000
Deploying sub array #2				
Deployment	MB_DP	Sun 5. May 15:35	Sun 5. May 16:34	0.983
Turning toward line				
Deployment	MB_DP	Sun 5. May 16:34	Sun 5. May 16:55	0.350
Soft start ramp up of source array				
Deployment	MB_DP	Sun 5. May 16:55	Sun 5. May 18:14	1.317
Recover sub array #3				
Deployment	MB_DP	Sun 5. May 18:14	Sun 5. May 18:50	0.600
Recover sub array #4				
Deployment	MB_DP	Sun 5. May 18:50	Sun 5. May 20:24	1.567
Source maintenance on sub arrays 3 and 4				
Deployment	MB_DP	Sun 5. May 20:24	Sun 5. May 20:40	0.267
Re-deploying sub array #4				
Deployment	MB_DP	Sun 5. May 20:40	Sun 5. May 22:01	1.350
Re-deploying sub array #3 and source volume adjustments. 36 guns 6380 in3				
Production Prime	AC_PP	Sun 5. May 22:01	Sun 5. May 24:00	1.983
SOL MGL 1902 OB01 SEQ 1				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emporer)

5-May	Hours	% Percent
Acquisition	1.983	8.264
Production Prime	1.983	8.264
Mobilisation	21.083	87.847
Deployment	21.083	87.847
Non-Chargeable StandBy	0.933	3.889
Weather	0.933	3.889
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emporer)

Category	Hours	% Percent
Mobilisation	426.467	93.523
Deployment	47.150	10.340
Mob Ashore	144.000	31.579
Transit to Prospect	235.317	51.605

Daily Science Report

5/5/2019

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Category	Hours	% Percent
Acquisition	1.983	0.435
Production Prime	1.983	0.435
Non-Chargeable StandBy	27.550	6.042
Weather	27.550	6.042
Total	456.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accept km by interval) - Prime: Sail Line, Infill: Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
1	01OB	77.2	390	690	Prime	15.00	4.084	Part	Midnight
Total						15.00			

Production Totals (Chgd km by interval) - Prime: Sail Line, Infill: Full Fold

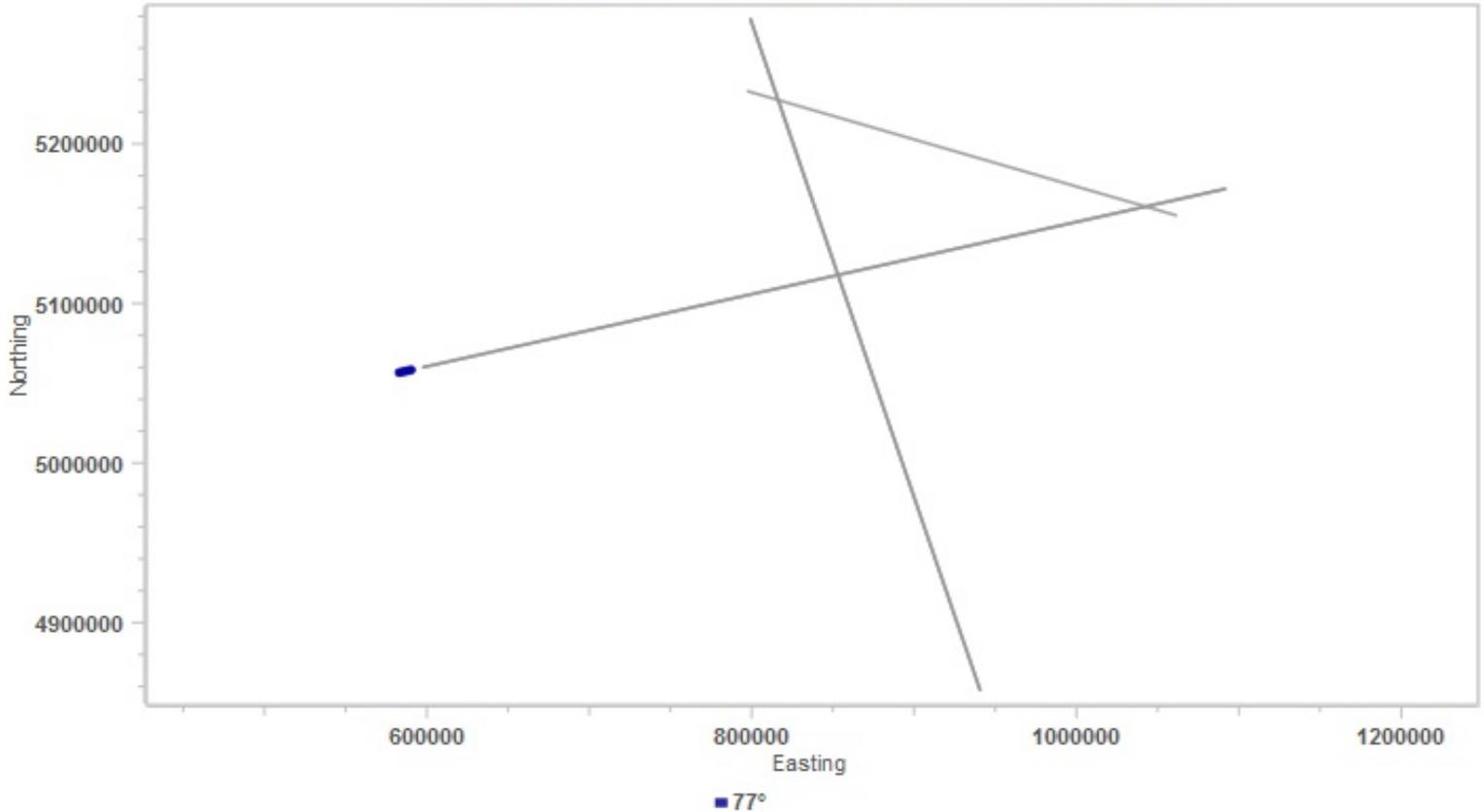
Charged km	Day	Week	Month	Project
Prime	15.00	15.00	15.00	15.00
Combined	15.00	15.00	15.00	15.00

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Emperor Sea Mounts: Chgd (4/17/2019 - 5/5/2019) MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 05 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):

Replaced several pigtails, solenoids and jumpers. The stbd compressor had to be swapped out for repairs/maintenance during deployment.

General Purpose Science:

Magnetometer is piking intermittently and we will troubleshoot at soonest opportunity.

Daily Comment Summaries - Personnel Onboard

Sun 05 May

Technical Staff On-board the Langseth

- Todd Jensvold L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Alan Thompson L-DEO OMO Marine Science Technician - Nav
- Shaun Shaver L-DEO OMO Marine Science Technician - Source
- Gilles Guerin L-DEO OMO Marine Science Technician - Obs
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- Edmond St. Amant Contract Personnel Marine Science Technician (Source)
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PSO Staff On-board the Langseth

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Mon May 6 2019 05:31a.m.

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Page 5

Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/5/2019

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Job No:	MGL1902	Job No:	MGL1902
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Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
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Deployment	MB_DP	Sun 5. May 15:35	Sun 5. May 16:34	0.983
Turning toward line				
Deployment	MB_DP	Sun 5. May 16:34	Sun 5. May 16:55	0.350
Soft start ramp up of source array				
Deployment	MB_DP	Sun 5. May 16:55	Sun 5. May 18:14	1.317
Recover sub array #3				
Deployment	MB_DP	Sun 5. May 18:14	Sun 5. May 18:50	0.600
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SOL MGL 1902 OB01 SEQ 1				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emporer)

5-May	Hours	% Percent
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Production Prime	1.983	8.264
Mobilisation	21.083	87.847
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Mob Ashore	144.000	31.579
Transit to Prospect	235.317	51.605

Daily Science Report

5/5/2019

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Category	Hours	% Percent
Acquisition	1.983	0.435
Production Prime	1.983	0.435
Non-Chargeable StandBy	27.550	6.042
Weather	27.550	6.042
Total	456.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
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No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accept km by interval) - Prime: Sail Line, Infill: Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
1	01OB	77.2	899	950	Prime	2.55	0.694	Part	Midnight
Total						2.55			

Production Totals (Chgd km by interval) - Prime: Sail Line, Infill: Full Fold

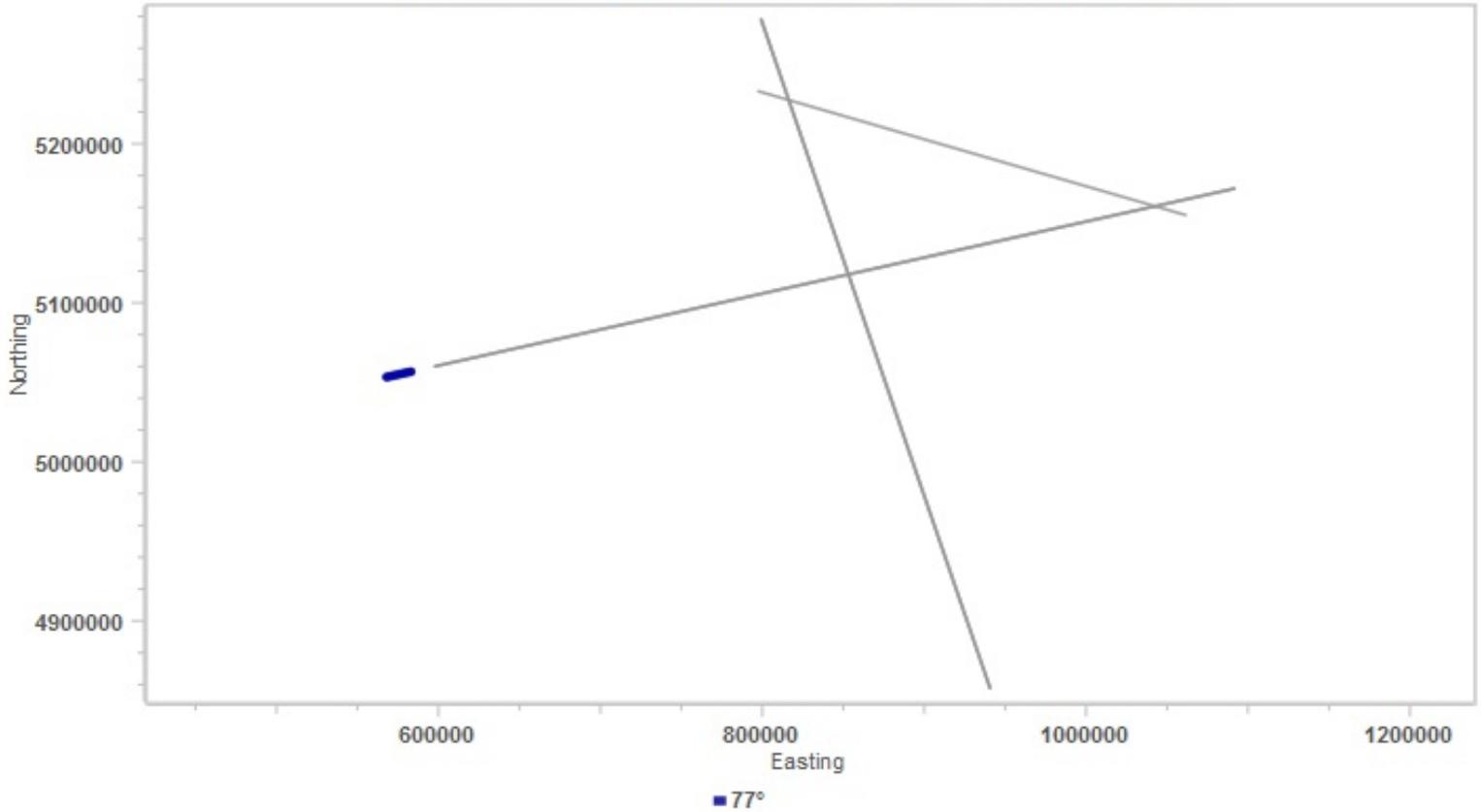
Charged km	Day	Week	Month	Project
Prime	2.55	2.55	2.55	2.55
Combined	2.55	2.55	2.55	2.55

Daily Science Report

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Emperor Sea Mounts: Acppt (4/17/2019 - 5/5/2019)MGL1502_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 05 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):

Replaced several pigtails, solenoids and jumpers. The stbd compressor had to be swapped out for repairs/maintenance during deployment.

General Purpose Science:

Magnetometer is piking intermittently and we will troubleshoot at soonest opportunity.

Daily Comment Summaries - Personnel Onboard

Sun 05 May

Technical Staff On-board the Langseth

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PSO Staff On-board the Langseth

Daily Science Report

5/5/2019

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Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/6/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Mon 06 May

We shot uninterrupted throughout the day. Weather is favorable.

Daily Comment Summaries - Plan for Tomorrow

Mon 06 May

We will continue to shoot throughout the day.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Code	Start	End	Duration
■ Production Prime	AC_PP	Mon 6. May 00:00	Mon 6. May 24:00	24.000
SOL MGL 1902 OB01 SEQ 1				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

6-May	Hours	% Percent
■ Acquisition	24.000	100.000
Production Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
■ Mobilisation	426.467	88.847
Deployment	47.150	9.823
Mob Ashore	144.000	30.000
Transit to Prospect	235.317	49.024
■ Acquisition	25.983	5.413
Production Prime	25.983	5.413
■ Non-Chargeable StandBy	27.550	5.740
Weather	27.550	5.740
Total	480.000	

Daily Science Report

5/6/2019

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Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

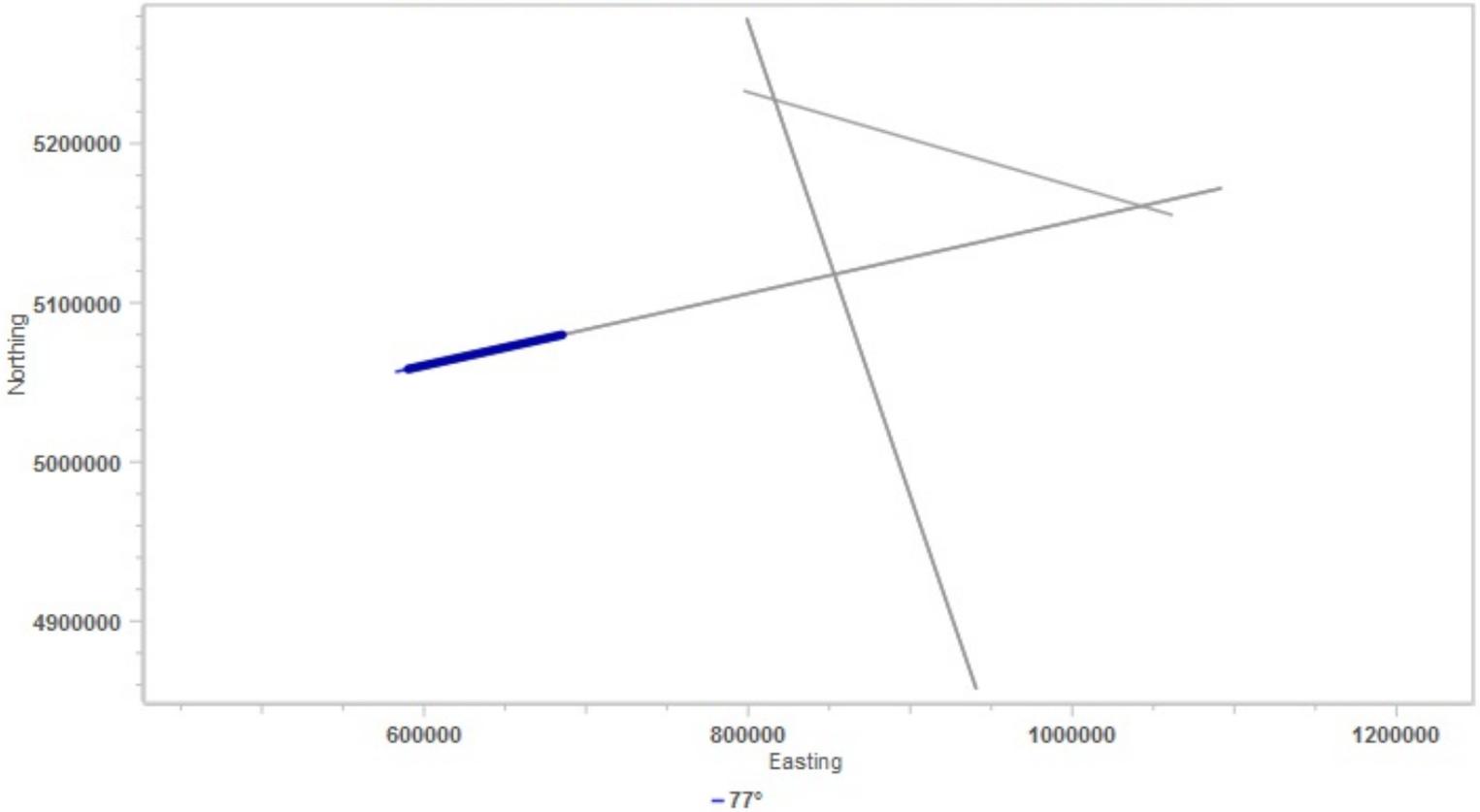
Production Listing (Accept km by interval) - Prime: Sail Line, Infill: Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
1	01OB	77.2	691	4577	Prime	194.35	4.350	Part	Midnight
Total						194.35			

Production Totals (Accept km by interval) - Prime: Sail Line, Infill: Full Fold

Accepted km	Day	Week	Month	Project
Prime	194.35	194.35	209.35	209.35
Combined	194.35	194.35	209.35	209.35

Emperor Sea Mounts: Acppt (4/17/2019 - 5/6/2019)MGL1502_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 06 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:

We adjusted the Magnetometer lay back to try and solve the intermittent spiking in the data. Our crab angle is making it difficult to retrieve. We will troubleshoot this problem further when the source array is back onboard.

Daily Comment Summaries - Personnel Onboard

Mon 06 May

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PSO Staff On-board the Langseth

Daily Science Report

5/6/2019

Page 4

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Daily Science Report

5/6/2019

Page 1, Revision 1

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Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Mon 06 May

We shot uninterrupted throughout the day. Weather is favorable.

Daily Comment Summaries - Plan for Tomorrow

Mon 06 May

We will continue to shoot throughout the day.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Production Prime	AC_PP	Mon 6. May 00:00	Mon 6. May 24:00	24.000
SOL MGL 1902 OB01 SEQ 1				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

6-May	Hours	% Percent
Acquisition	24.000	100.000
Production Prime	24.000	100.000
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Daily Science Report

5/6/2019

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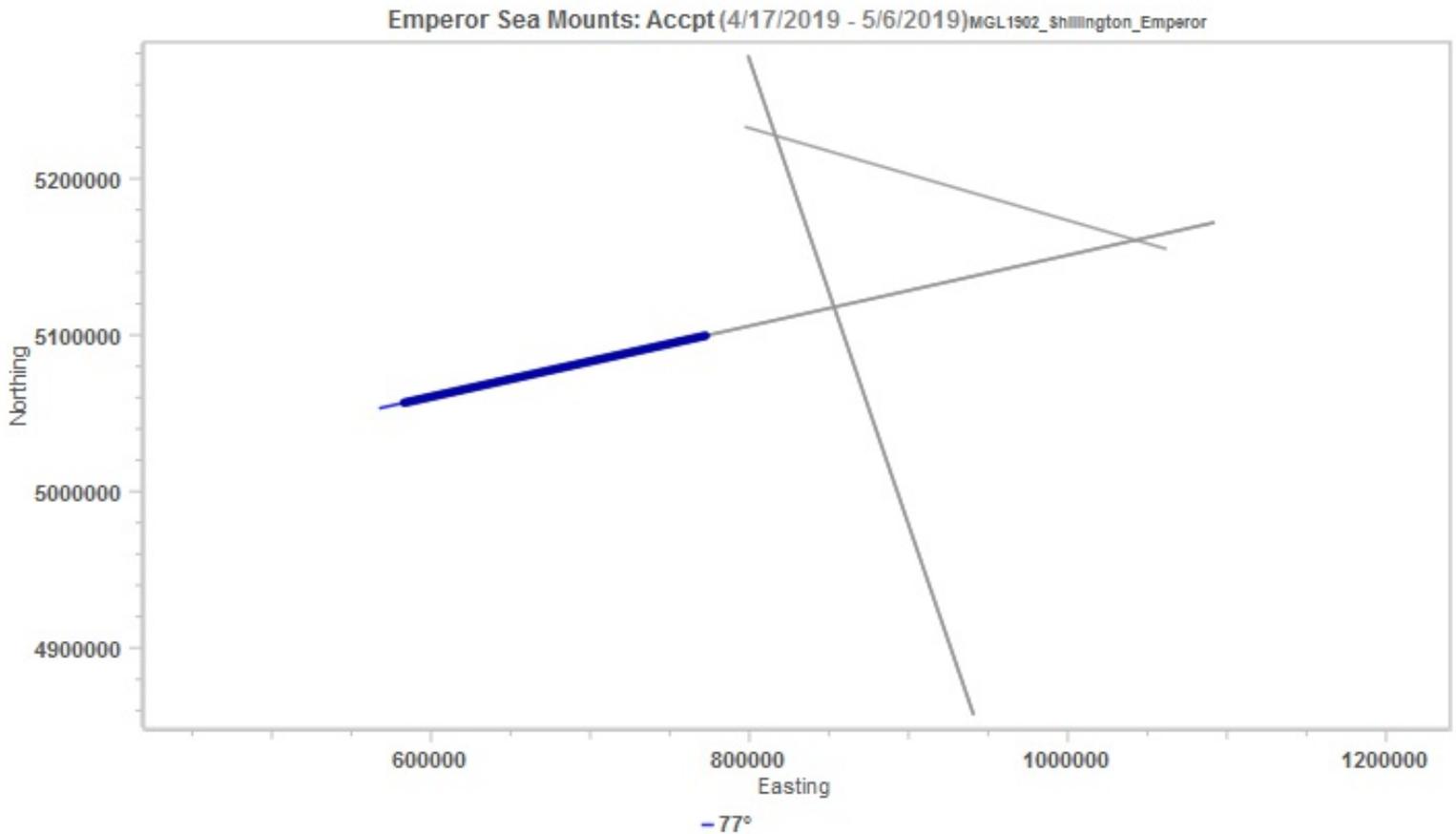
Production Totals (Chgd km by interval) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	32.30	32.30	34.85	34.85
Combined	32.30	32.30	34.85	34.85

Daily Science Report

5/6/2019

Page 3, Revision 1



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 06 May

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Daily Science Report

5/6/2019

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Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
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Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/7/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Tue 07 May

We had an air leak on sub-array #3 that caused the gun (3-6) to auto-fire. We retrieved this sub-array to make repairs while circling back to reshoot some of the affected data. Repairs were made and we were back into full production in about two hours.

Daily Comment Summaries - Plan for Tomorrow

Tue 07 May

We will finish the first OBS line tomorrow morning about 3 AM local. We will turn around immediately at the EOL and start picking up guns en route to the first OBS recovery.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Production Prime	AC_PP	Tue 7. May 00:00	Tue 7. May 03:09	3.150
SOL MGL 1902 OB01 SEQ 1				
Source	DT_SC	Tue 7. May 03:09	Tue 7. May 05:22	2.217
Downtime due to source. Recovered sub-array #3 for auto-fire.				
Production Prime	AC_PP	Tue 7. May 05:22	Tue 7. May 24:00	18.633

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

7-May	Hours	% Percent
Acquisition	21.783	90.764
Production Prime	21.783	90.764
DownTime	2.217	9.236
Source	2.217	9.236
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	426.467	84.616
Deployment	47.150	9.355
Mob Ashore	144.000	28.571
Transit to Prospect	235.317	46.690
Acquisition	47.767	9.478

Daily Science Report

5/7/2019

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Category	Hours	% Percent
Production Prime	47.767	9.478
DownTime	2.217	0.440
Source	2.217	0.440
Non-Chargeable StandBy	27.550	5.466
Weather	27.550	5.466
Total	504.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accept km by interval) - Prime: Sail Line, Infill: Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status	
1	01OB	77.2	1597	1684	Prime	3.60	0.732	Complete	Complete	
NTBP: 1668 - 1684 (chgd)										
2	01OB	77.2	1685	2172	Prime	24.35	0.740	Part	Midnight	
Overlap (not chgd): 1661 - 1684, NTBP: 1661 - 1684 (not chgd)										
Total						27.95				

Production Totals (Chgd km by interval) - Prime: Sail Line, Infill: Full Fold

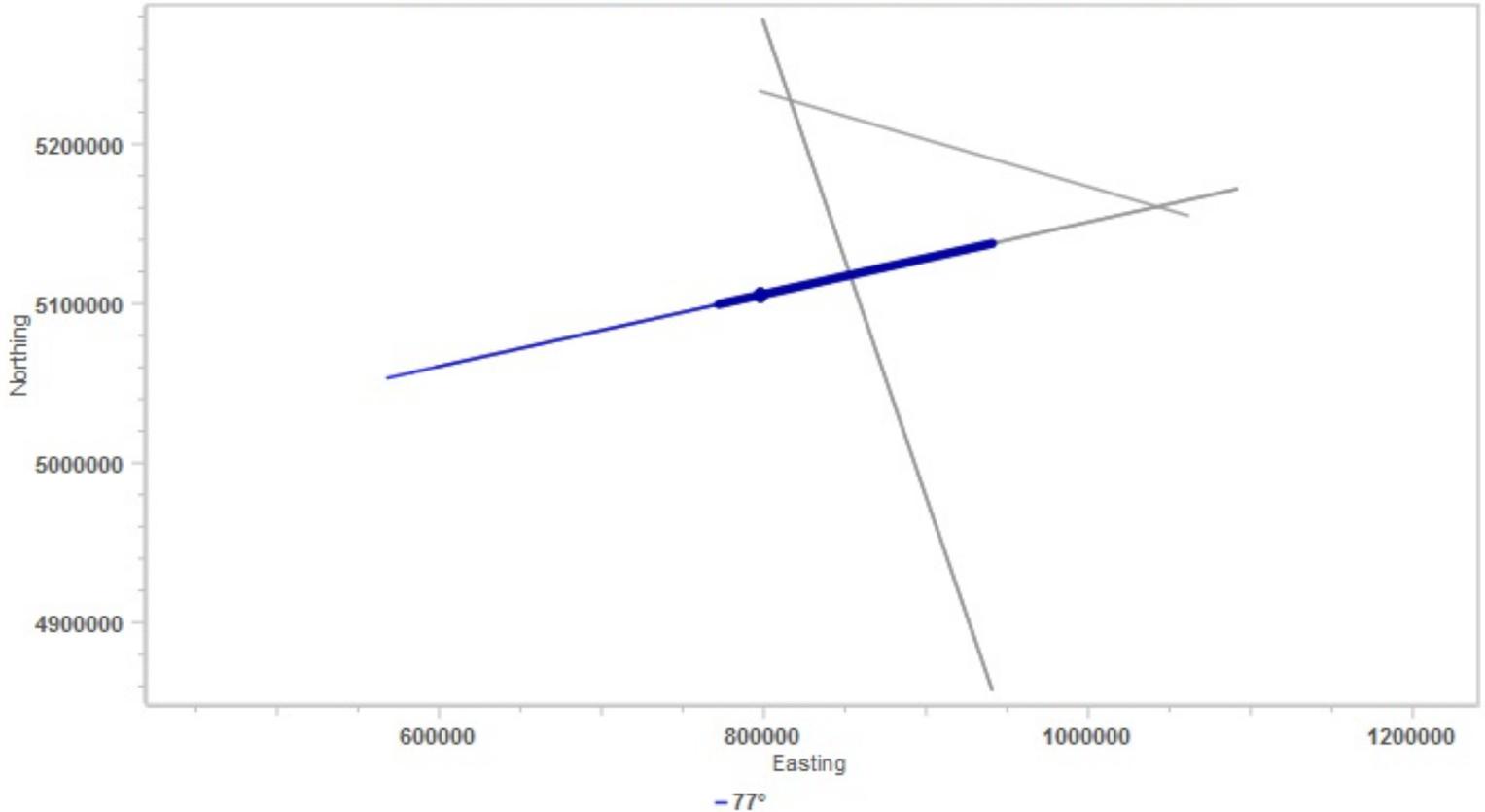
Charged km	Day	Week	Month	Project
Prime	4.40	36.70	39.25	39.25
Combined	4.40	36.70	39.25	39.25

Daily Science Report

5/7/2019

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Emperor Sea Mounts: Accpt (4/17/2019 - 5/7/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 07 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

Daily Comment Summaries - Personnel Onboard

Tue 07 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Wed May 8 2019 08:47a.m.

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Daily Science Report

5/7/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
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Daily Science Report

5/8/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Wed 08 May

We completed OBS 01B this morning. We recovered the source array, Maggie and PAM cables. We then transited back to OBS130 and recovered three OBS's by 24:00 UTC.

Several toolbox meetings to discuss and improve the source retrievals and OBS retrievals.

Daily Comment Summaries - Plan for Tomorrow

Wed 08 May

We will continue to recover the OBS's all day.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 8. May 00:00	Wed 8. May 13:38	13.633
Prime Line Change	AC_PLC	Wed 8. May 13:38	Wed 8. May 13:52	0.233
Turn around to recover source				
Source Reconfig	SB_REC_SC	Wed 8. May 13:52	Wed 8. May 16:52	3.000
Recovering Source arrays ahead of OBS recovery operations				
Reconfiguration	MB_RC	Wed 8. May 16:52	Wed 8. May 18:31	1.650
Recovery OBS 130				
Reconfiguration	MB_RC	Wed 8. May 18:31	Wed 8. May 21:16	2.750
Recovery OBS 129				
Reconfiguration	MB_RC	Wed 8. May 21:16	Wed 8. May 23:34	2.300
Recovery OBS 128				
Reconfiguration	MB_RC	Wed 8. May 23:34	Wed 8. May 24:00	0.433
Recovery OBS 127				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

8-May	Hours	% Percent
Acquisition	13.867	57.778
Prime Line Change	0.233	0.972
Production Prime	13.633	56.806
Chargeable Standby	3.000	12.500
Reconfiguration	3.000	12.500

Daily Science Report

5/8/2019

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8-May	Hours	% Percent
Source Reconfig	3.000	12.500
Mobilisation	7.133	29.722
Reconfiguration	7.133	29.722
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	433.600	82.121
Deployment	47.150	8.930
Mob Ashore	144.000	27.273
Reconfiguration	7.133	1.351
Transit to Prospect	235.317	44.568
Acquisition	61.633	11.673
Prime Line Change	0.233	0.044
Production Prime	61.400	11.629
DownTime	2.217	0.420
Source	2.217	0.420
Chargeable Standby	3.000	0.568
Reconfiguration	3.000	0.568
Source Reconfig	3.000	0.568
Non-Chargeable StandBy	27.550	5.218
Weather	27.550	5.218
Total	528.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Daily Science Report

5/8/2019

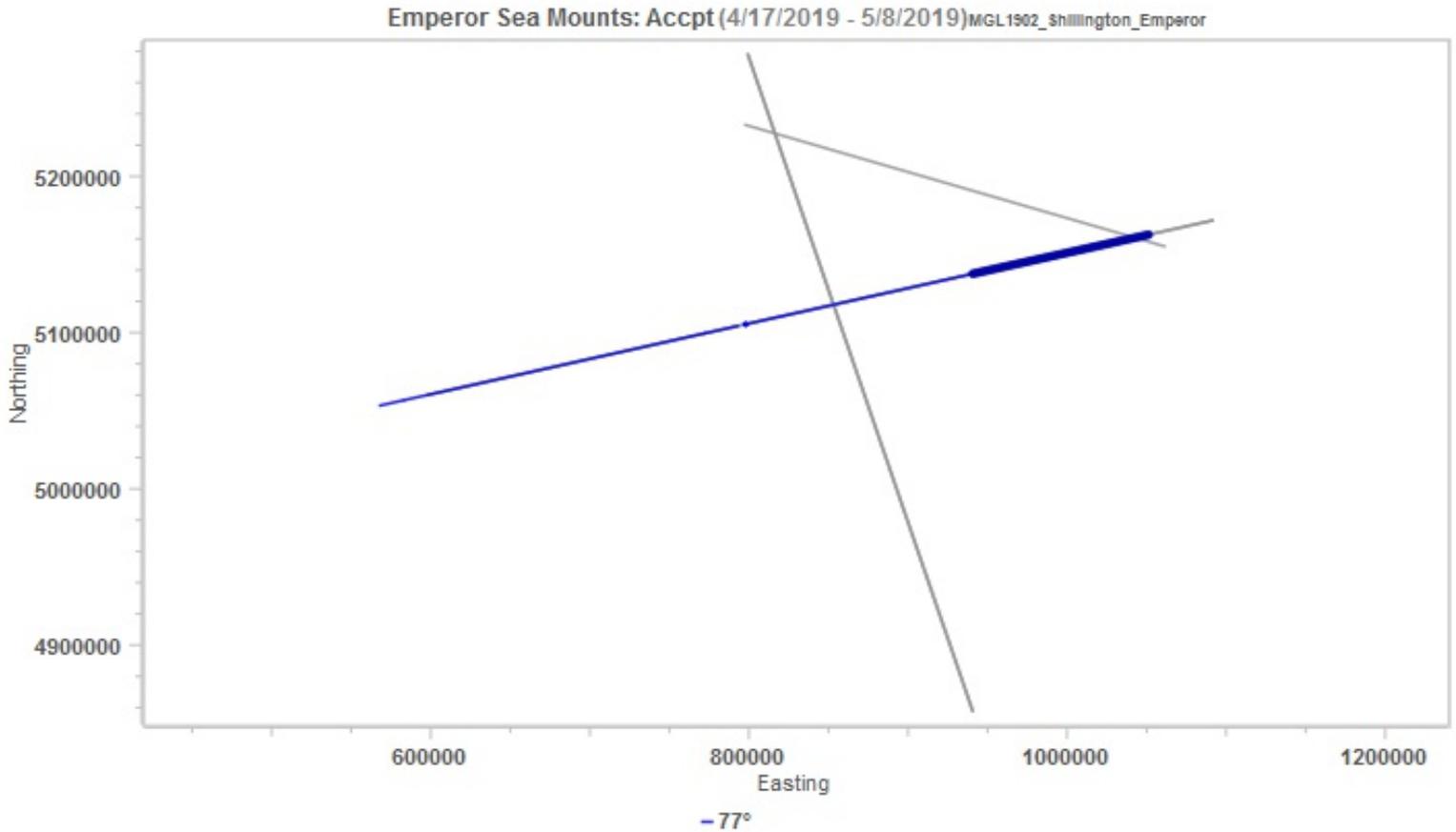
Page 3

Production Listing (Acpt km by interval) - Prime: Sail Line, Infill: Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
2	01OB	77.2	2173	2549	Prime	18.85	0.743	Complete	Complete
Total						18.85			

Production Totals (Chgd km by interval) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	0.00	36.70	39.25	39.25
Combined	0.00	36.70	39.25	39.25



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 08 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):

Several floats and ropes need repairs. Normal maintenance will be done.

General Purpose Science:

Measure the tow points on the magnetometer cable.

Daily Comment Summaries - Personnel Onboard

Wed 08 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

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Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/9/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Thu 09 May

Recovered OBS's all day long. Weather has been very favorable.

Making preparations for MCS deployment and acquisition.

Daily Comment Summaries - Plan for Tomorrow

Thu 09 May

We will recover OBS's all day.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Reconfiguration	MB_RC	Thu 9. May 00:00	Thu 9. May 01:56	1.933
Recovery OBS 127				
Reconfiguration	MB_RC	Thu 9. May 01:56	Thu 9. May 04:19	2.383
Recovery OBS 126				
Reconfiguration	MB_RC	Thu 9. May 04:19	Thu 9. May 06:57	2.633
Recovery OBS 125				
Reconfiguration	MB_RC	Thu 9. May 06:57	Thu 9. May 09:27	2.500
Recovery OBS 124				
Reconfiguration	MB_RC	Thu 9. May 09:27	Thu 9. May 12:11	2.733
Recovery OBS 123				
Reconfiguration	MB_RC	Thu 9. May 12:11	Thu 9. May 14:45	2.567
Recovery OBS 122				
Reconfiguration	MB_RC	Thu 9. May 14:45	Thu 9. May 17:52	3.117
Recovery OBS 121				
Reconfiguration	MB_RC	Thu 9. May 17:52	Thu 9. May 20:33	2.683
Recovery OBS 120				
Reconfiguration	MB_RC	Thu 9. May 20:33	Thu 9. May 22:34	2.017
Recovery OBS 119				
Reconfiguration	MB_RC	Thu 9. May 22:34	Thu 9. May 24:00	1.433
Recovery OBS 117 (OBS 118 purposely left on sea bed)				

Daily Science Report

5/9/2019

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Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

9-May	Hours	% Percent
Mobilisation	24.000	100.000
Reconfiguration	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	457.600	82.899
Deployment	47.150	8.542
Mob Ashore	144.000	26.087
Reconfiguration	31.133	5.640
Transit to Prospect	235.317	42.630
Acquisition	61.400	11.123
Production Prime	61.400	11.123
DownTime	2.217	0.402
Source	2.217	0.402
Chargeable Standby	3.233	0.586
Reconfiguration	3.233	0.586
Source Reconfig	3.233	0.586
Non-Chargeable StandBy	27.550	4.991
Weather	27.550	4.991
Total	552.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

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

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

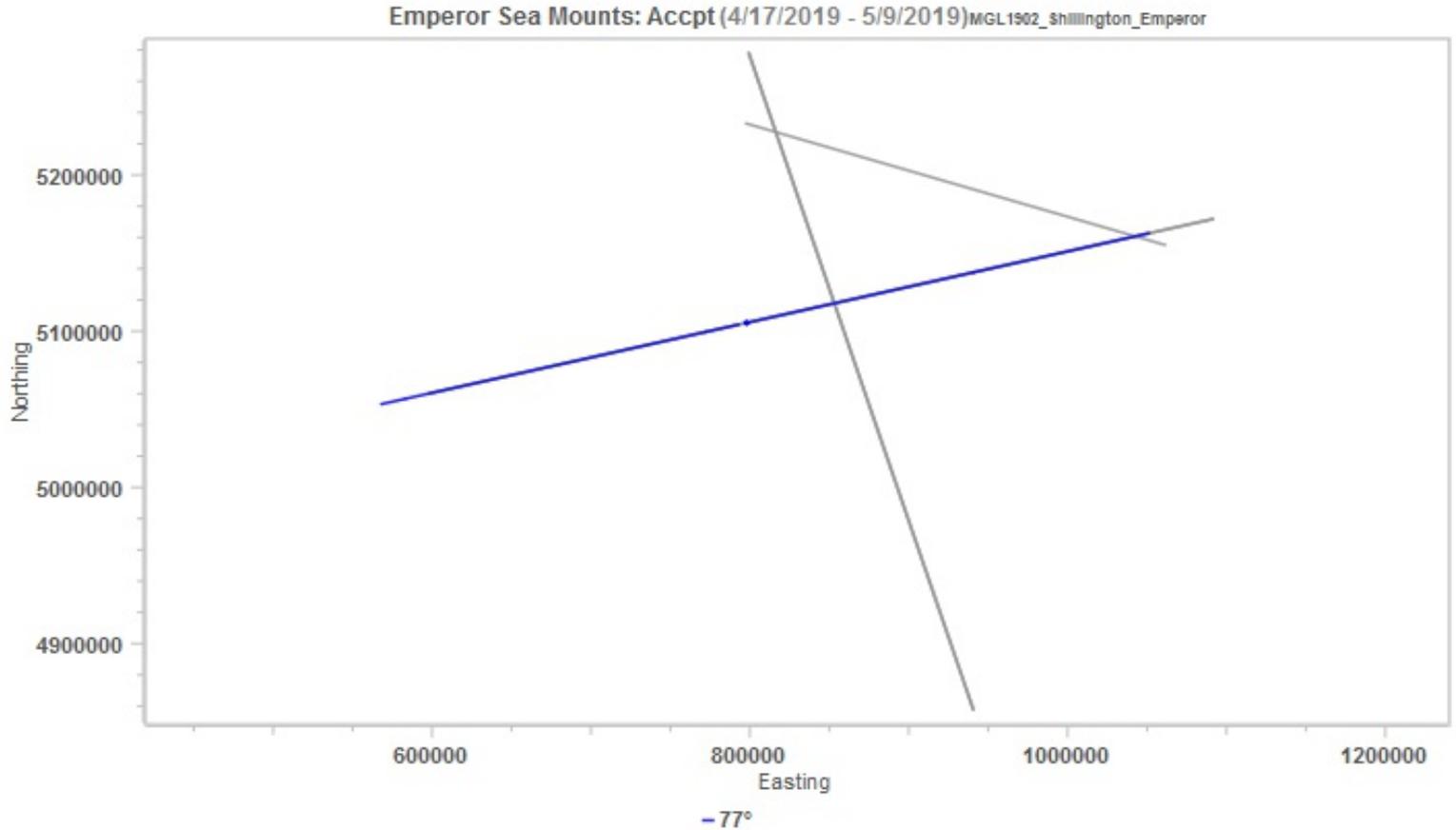
Daily Science Report

5/9/2019

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Production Totals (Chgd km by interval) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	0.00	36.70	39.25	39.25
Combined	0.00	36.70	39.25	39.25



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 09 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

Daily Comment Summaries - Personnel Onboard

Thu 09 May

Technical Staff On-board the Langseth

- Todd Jensvold L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Alan Thompson L-DEO OMO Marine Science Technician - Nav
- Shaun Shaver L-DEO OMO Marine Science Technician - Source
- Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Daily Science Report

5/9/2019

Page 4

Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

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Daily Science Report

5/10/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Fri 10 May

We recovered ten OBS's today.

Cable deployment preparations have been made.

Daily Comment Summaries - Plan for Tomorrow

Fri 10 May

We will deploy MCS streamer and begin deploying source array. We will ballast the streamer during deployment to account for the water temp and salinity in the survey area.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Reconfiguration	MB_RC	Fri 10. May 00:00	Fri 10. May 00:42	0.700
Recovery OBS 117 (OBS 118 purposely left on sea bed)				
Reconfiguration	MB_RC	Fri 10. May 00:42	Fri 10. May 02:22	1.667
Recovery OBS 116				
Reconfiguration	MB_RC	Fri 10. May 02:22	Fri 10. May 04:38	2.267
Recovery OBS 115				
Reconfiguration	MB_RC	Fri 10. May 04:38	Fri 10. May 07:29	2.850
Recovery OBS 114				
Reconfiguration	MB_RC	Fri 10. May 07:29	Fri 10. May 09:49	2.333
Recovery OBS 113				
Reconfiguration	MB_RC	Fri 10. May 09:49	Fri 10. May 12:33	2.733
Recovery OBS 112				
Reconfiguration	MB_RC	Fri 10. May 12:33	Fri 10. May 15:47	3.233
Recovery OBS 111				
Reconfiguration	MB_RC	Fri 10. May 15:47	Fri 10. May 19:03	3.267
Recovery OBS 110				
Reconfiguration	MB_RC	Fri 10. May 19:03	Fri 10. May 22:02	2.983
Recovery OBS 109				
Reconfiguration	MB_RC	Fri 10. May 22:02	Fri 10. May 24:00	1.967
Recovery OBS 108				

Daily Science Report

5/10/2019

Page 2

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

10-May	Hours	% Percent
Mobilisation	24.000	100.000
Reconfiguration	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	481.600	83.611
Deployment	47.150	8.186
Mob Ashore	144.000	25.000
Reconfiguration	55.133	9.572
Transit to Prospect	235.317	40.854
Acquisition	61.400	10.660
Production Prime	61.400	10.660
DownTime	2.217	0.385
Source	2.217	0.385
Chargeable Standby	3.233	0.561
Reconfiguration	3.233	0.561
Source Reconfig	3.233	0.561
Non-Chargeable StandBy	27.550	4.783
Weather	27.550	4.783
Total	576.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	300 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

Daily Science Report

5/10/2019

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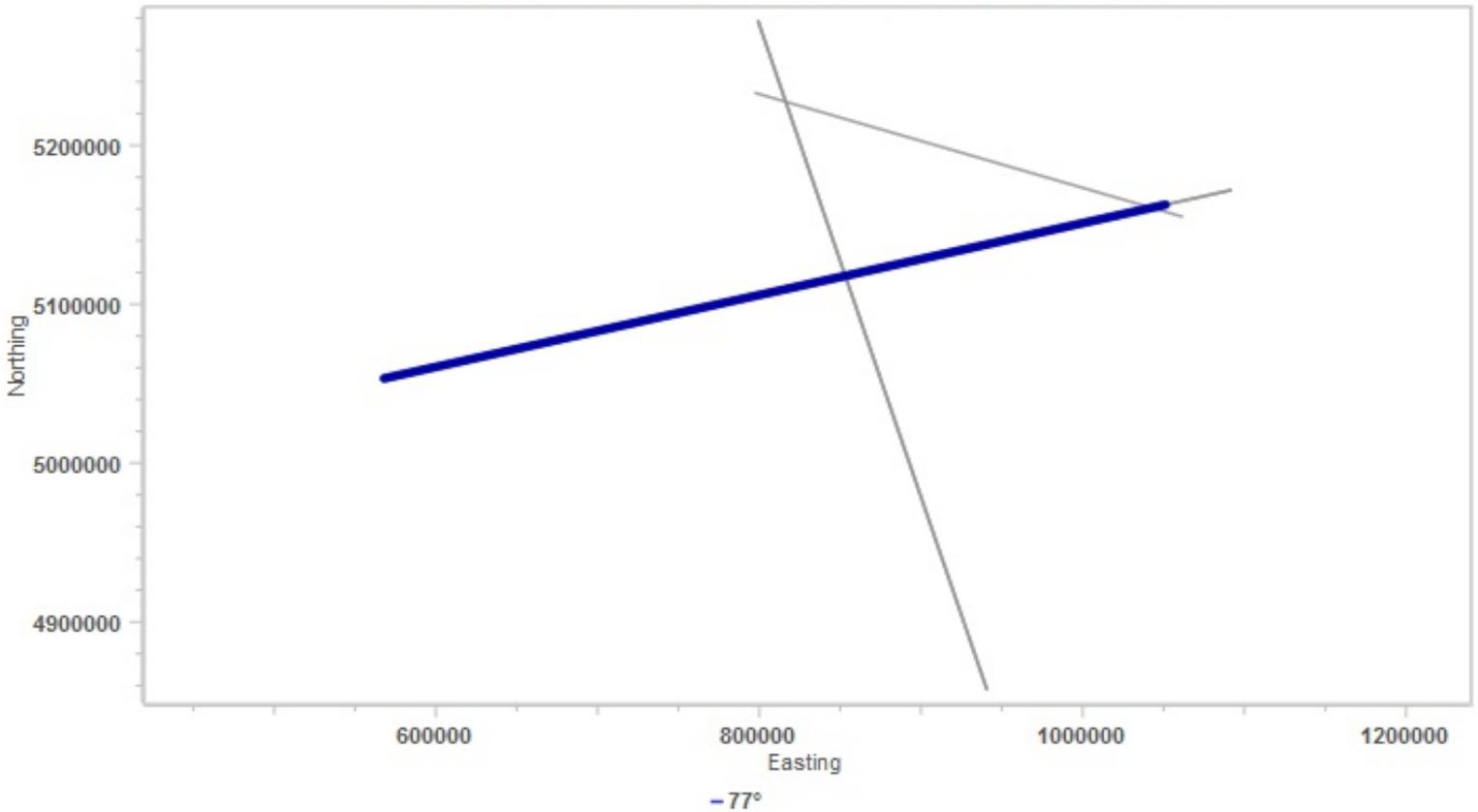
Production Listing (Accept km by interval) - Prime: Sail Line, Infill: Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
3	01OB	77.2	899	2549	Prime	495.00	N/A	Complete	Complete
Total						495.00			

Production Totals (Chgd km by interval) - Prime: Sail Line, Infill: Full Fold

Charged km	Day	Week	Month	Project
Prime	0.00	220.20	235.50	235.50
Combined	0.00	220.20	235.50	235.50

Emperor Sea Mounts: Accept (4/17/2019 - 5/10/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 10 May

Navigation:

Tail-buoy prepared for deployment.

Information Technology (IT):

No Major Issues to Report

Acquisition (OBS):

No Major Issues to Report

Towing and Handling (Source):

Troubleshoot electrical leakage in sub-array's #1 and #3. Normal maintenance.

General Purpose Science:

Swapped in spare magnetometer to troubleshoot some low grade spiking in the original one.

Daily Comment Summaries - Personnel Onboard

Fri 10 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
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Shaun Shaver L-DEO OMO Marine Science Technician - Source
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Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/11/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sat 11 May

Streamer fully deployed and began deploying guns.

Magnetometer, PAM deployed.

Daily Comment Summaries - Plan for Tomorrow

Sat 11 May

Full acquisition mode.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Reconfiguration	MB_RC	Sat 11. May 00:00	Sat 11. May 00:11	0.183
Recovery OBS 108				
Reconfiguration	MB_RC	Sat 11. May 00:11	Sat 11. May 02:20	2.150
Recovery OBS 107				
Reconfiguration	MB_RC	Sat 11. May 02:20	Sat 11. May 04:26	2.100
Recovery OBS 106				
Reconfiguration	MB_RC	Sat 11. May 04:26	Sat 11. May 06:30	2.067
Recovery OBS 105				
Reconfiguration	MB_RC	Sat 11. May 06:30	Sat 11. May 08:47	2.283
Recovery OBS 104 - One more to go !!				
Reconfiguration	MB_RC	Sat 11. May 08:47	Sat 11. May 10:53	2.100
Recovery OBS 103				
Reconfiguration	MB_RC	Sat 11. May 10:53	Sat 11. May 11:36	0.717
Securing OBS equipment and preparing streamer deck for deployment				
Deployment	MB_DP	Sat 11. May 11:36	Sat 11. May 12:35	0.983
Deploying tail buoy and reel 1				
Deployment	MB_DP	Sat 11. May 12:35	Sat 11. May 16:55	4.333
transfer to reel 2 and deploy from reel 2, transfer to reel 3				
Deployment	MB_DP	Sat 11. May 16:55	Sat 11. May 21:45	4.833
transfer to reel 3 and deploy.				
Deployment	MB_DP	Sat 11. May 21:45	Sat 11. May 22:51	1.100
Streamer tripped power. Remove section #3 due to power problem. This fixed problem. New streamer length is 14,850 meters.				

Daily Science Report

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Category	Code	Start	End	Duration
Deployment	MB_DP	Sat 11. May 22:51	Sat 11. May 23:37	0.767
Continue deployment add RVIM and head float				
Deployment	MB_DP	Sat 11. May 23:37	Sat 11. May 24:00	0.383
Deploy magnetometer and PAM cable.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

11-May	Hours	% Percent
Mobilisation	24.000	100.000
Deployment	12.400	51.667
Reconfiguration	11.600	48.333
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	505.600	84.267
Deployment	59.550	9.925
Mob Ashore	144.000	24.000
Reconfiguration	66.733	11.122
Transit to Prospect	235.317	39.219
Acquisition	61.400	10.233
Production Prime	61.400	10.233
DownTime	2.217	0.369
Source	2.217	0.369
Chargeable Standby	3.233	0.539
Reconfiguration	3.233	0.539
Source Reconfig	3.233	0.539
Non-Chargeable StandBy	27.550	4.592
Weather	27.550	4.592
Total	600.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	18000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	225 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	12 m
Tail Depth:	12 m	Length:	15000 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4

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MGL1902_Shillington_Emperor					
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

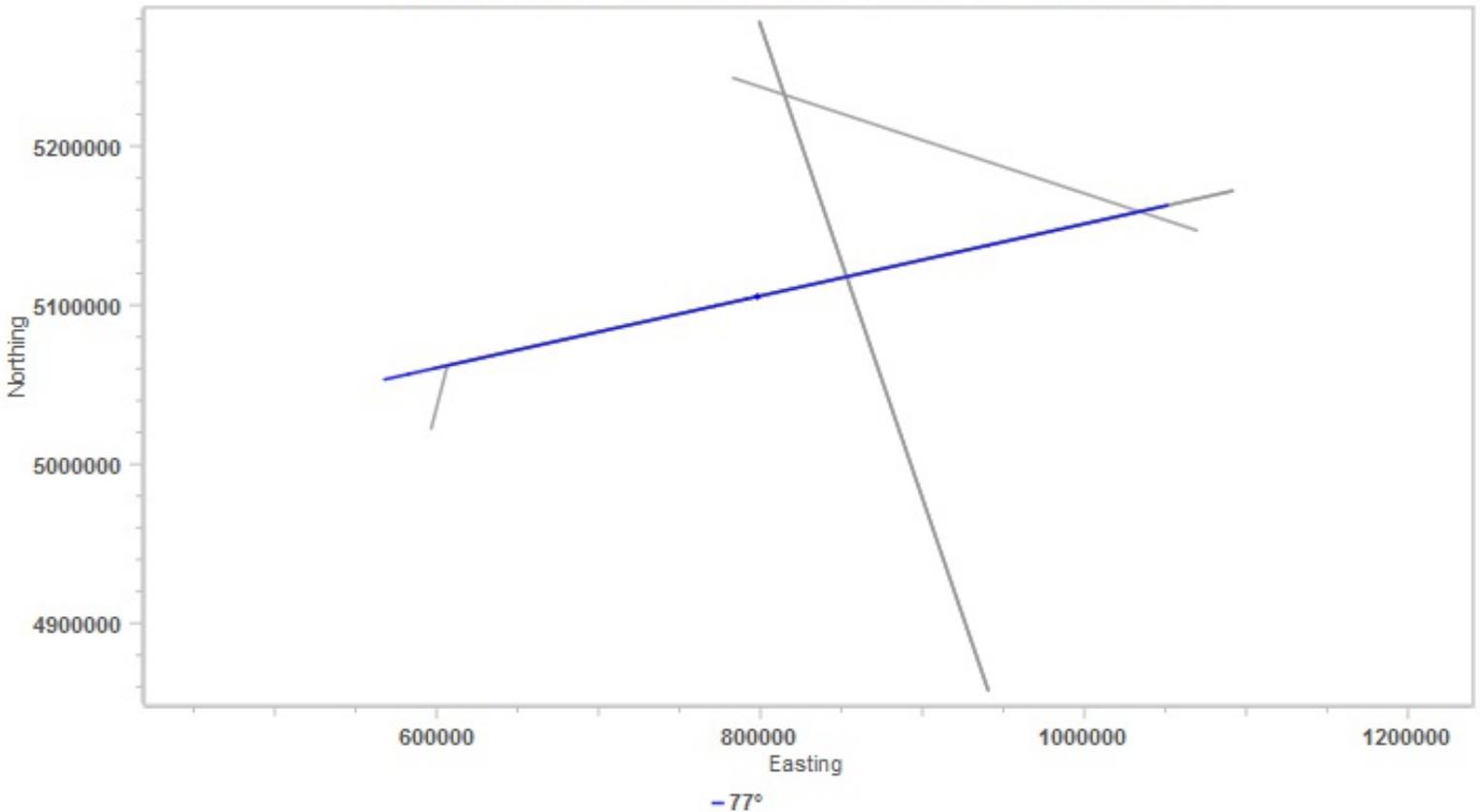
Production Listing (Accpt km) - Prime: Sail Line, Infill: Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

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

Accepted km	Day	Week	Month	Project
Prime	0.00	480.31	495.56	495.56
Combined	0.00	480.31	495.56	495.56

Emperor Sea Mounts: Accpt(4/17/2019 - 5/11/2019) MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 11 May

Navigation:

Tail buoy GPS not talking. We moved several digicourse birds to the forward coils on the streamer between bird 10-5 because the aft coils weren't talking.

Information Technology (IT):

Problem with export data flow at SOL. Data is being written.

Acquisition (OBS):

SRD deployed during first turn onto LINE MGL1902 MC04

Towing and Handling (Source):

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Sat May 11 2019 06:48p.m.

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Started first sequence without 360in3 gun on sub array #3 due to electrical leakage.

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Sat 11 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

Daily Science Report

5/12/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sun 12 May

We completed Seq 3 and the started MGL1902MC01. We acquired data all day.

The weather has picked up a little. The streamer is towing well.

Daily Comment Summaries - Plan for Tomorrow

Sun 12 May

We will continue to acquire data on MC01 for the next two and a half days.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Deployment	MB_DP	Sun 12. May 00:00	Sun 12. May 00:29	0.483
Deploy sub array 1				
Deployment	MB_DP	Sun 12. May 00:29	Sun 12. May 02:40	2.183
Repair air leak to sub array 2 and fully deploy sub array 2				
Deployment	MB_DP	Sun 12. May 02:40	Sun 12. May 02:58	0.300
Fully deployed sub array 4				
Deployment	MB_DP	Sun 12. May 02:58	Sun 12. May 03:20	0.367
Fully deploy sub array 3				
Deployment	MB_DP	Sun 12. May 03:20	Sun 12. May 03:41	0.350
Ramp up source				
Deployment	MB_DP	Sun 12. May 03:41	Sun 12. May 03:45	0.067
Final checks of systems before starting line				
Production Prime	AC_PP	Sun 12. May 03:45	Sun 12. May 09:49	6.067
Line MGL1902MC04				
Prime Line Change	AC_PLC	Sun 12. May 09:49	Sun 12. May 09:57	0.133
Short line change to MGL1902MC01				
Production Prime	AC_PP	Sun 12. May 09:57	Sun 12. May 24:00	14.050

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

12-May	Hours	% Percent
Acquisition	20.250	84.375
Prime Line Change	0.133	0.556

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12-May	Hours	% Percent
Production Prime	20.117	83.819
Mobilisation	3.750	15.625
Deployment	3.750	15.625
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	509.350	81.627
Deployment	63.300	10.144
Mob Ashore	144.000	23.077
Reconfiguration	66.733	10.694
Transit to Prospect	235.317	37.711
Acquisition	81.650	13.085
Prime Line Change	0.133	0.021
Production Prime	81.517	13.064
DownTime	2.217	0.355
Source	2.217	0.355
Chargeable Standby	3.233	0.518
Reconfiguration	3.233	0.518
Source Reconfig	3.233	0.518
Non-Chargeable StandBy	27.550	4.415
Weather	27.550	4.415
Total	624.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

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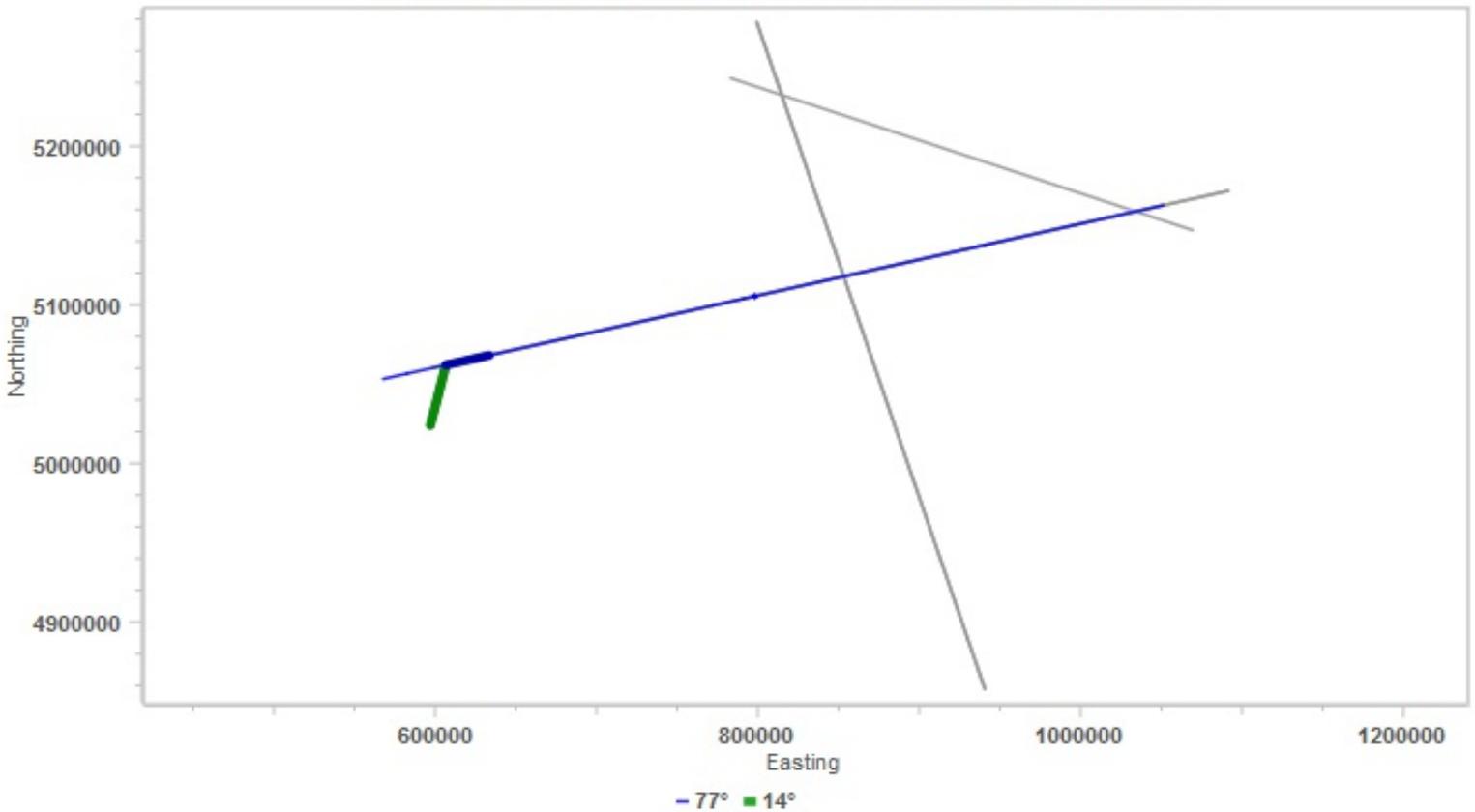
Production Listing (Accept km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
3	L04MC	14.2	1027	1641	Prime	38.38	3.416	Complete	Complete
4	L01MC	77.2	1014	1452	Prime	27.38	1.052	Part	Midnight
Total						65.75			

Production Totals (Accept km by interval) - Full Fold

Accepted km	Day	Week	Month	Project
Prime	65.75	546.06	561.31	561.31
Combined	65.75	546.06	561.31	561.31

Emperor Sea Mounts: Accept (4/17/2019 - 5/12/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 12 May

Navigation:

Tail buoy GPS not talking.

Information Technology (IT):

No Major Issues to Report

Acquisition (OBS):

No Major Issues to Report

Towing and Handling (Source):

Two 360 in3 are disabled. Source Volume is 6240 in3

General Purpose Science:

No Major Issues to Report

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Daily Comment Summaries - Personnel Onboard

Sun 12 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Alan Thompson L-DEO OMO Marine Science Technician - Nav
 Shaun Shaver L-DEO OMO Marine Science Technician - Source
 Gilles Guerin L-DEO OMO Marine Science Technician - Obs
 Chris Abdouch Contract Personnel Marine Science Technician (NAV)
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 Edmond St. Amant Contract Personnel Marine Science Technician (Source)
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 Andrea Zavaia RPS PAM / PSO
 Ana Hernandez RPS PSO
 Veronica Gonzales RPS PSO
 Karla Medina RPS PSO

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Shillington, Donna LDEO PI
 Watts, Anthony Oxford PI
 Dunn, Robert University of Hawaii PI
 Boston, Brian - LDEO
 Cortes-Rivas, Valeria - University of Chil
 Fortin, Will - LDEO
 Tsekhmistrenko, Maria - Oxford
 Harper, Hugh - Scripps
 Lei, Mei - University of Houston
 Nyugen, Luan - Rice University
 Leebum, Jeff - PSU
 Filbrandt, Christian - Geomar OBS Tech
 Gomez Laura - Geomar OBS Tech
 Schroeder, Patrick - Geomar OBS Tech
 Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
 First Aid Case	laI_FAC	Sun 12. May 19:00	
HSE - First Aid Case			
Contractor Incident/Report No: pinch/crush injury to left middle finger			

Daily Total Category	Code	Count
 Toolbox Meetings	Mtgs_Tbox	3
5/12/2019		
Meetings for deploying source		
Meeting for deploying head float		
Meeting for troubleshooting rGPS antenna with a new antenna		

Daily Science Report

5/13/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Mon 13 May

Acquired data all day on Seq #4 with very favorable weather and seas.

We had one of the activated SRD's come off of the streamer. The noise on the streamer has improved dramatically.

Daily Comment Summaries - Plan for Tomorrow

Mon 13 May

We will acquire data on this line throughout the day.

We have made all preparations to pick up sub-array's #1 and #4 for repairs and maintenance immediately after the line is finished.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Mon 13. May 00:00	Mon 13. May 24:00	24.000
SOL Seq 4 Line:L01MC Block=Emperor Sea Mounts FGSP=1543 FCSP=N/AHdg=77.2° Prime MSP Seq 4 Line:L01MC Block=Emperor Sea Mounts LGSP=4468 LCSP=4468 Midnight				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

13-May	Hours	% Percent
Acquisition	24.000	100.000
Production Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	509.350	78.603
Deployment	63.300	9.769
Mob Ashore	144.000	22.222
Reconfiguration	66.733	10.298
Transit to Prospect	235.317	36.314
Acquisition	105.650	16.304
Prime Line Change	0.133	0.021
Production Prime	105.517	16.283
DownTime	2.217	0.342

Daily Science Report

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Category	Hours	%Percent
Source	2.217	0.342
Chargeable Standby	3.233	0.499
Reconfiguration	3.233	0.499
Source Reconfig	3.233	0.499
Non-Chargeable StandBy	27.550	4.252
Weather	27.550	4.252
Total	648.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
4	L01MC	77.2	1543	4468	Prime	182.88	3.063	Part	Midnight
Total						182.88			

Production Totals (Accpt km by interval) - Full Fold

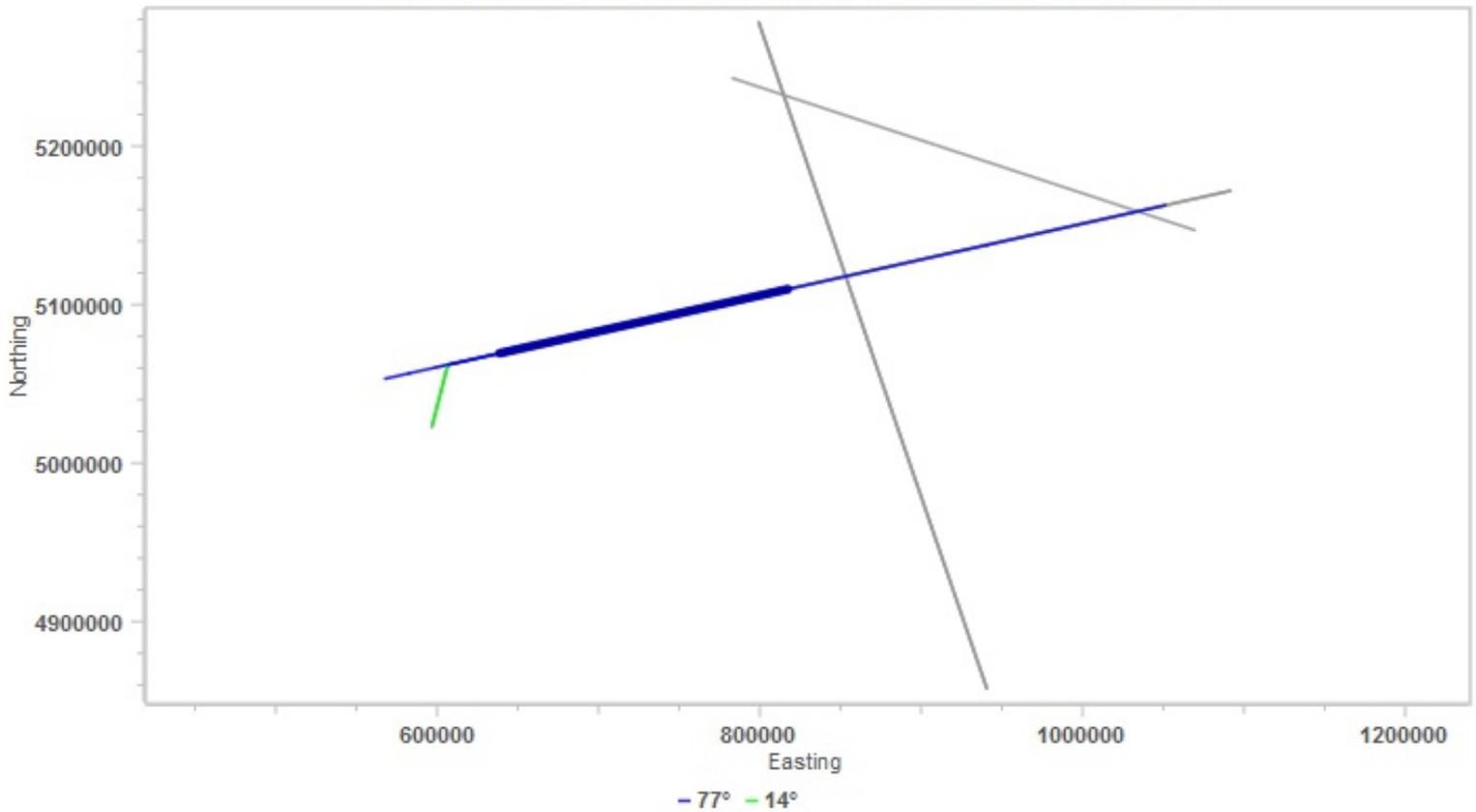
Accepted km	Day	Week	Month	Project
Prime	182.88	182.88	749.81	749.81
Combined	182.88	182.88	749.81	749.81

Daily Science Report

5/13/2019

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Emperor Sea Mounts: Acppt (4/17/2019 - 5/13/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 13 May

Navigation:

Tail buoy not talking.

Information Technology (IT):

No Major Issues to Report

Acquisition (OBS):

We had two SRD's activated during the deployment on bird's 54, 52. The SRD on bird 54 came free. The data looks better and our control is good in this area.

Towing and Handling (Source):

Two 360 in3 disabled.

General Purpose Science:

We have deployed nine XBT's on this sequence while crossing the Emperor Jimmu Seamount at the center of the survey.

Daily Comment Summaries - Personnel Onboard

Mon 13 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Mon May 13 2019 03:58p.m.

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Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		1
5/13/2019			
Discuss source array recovery timing and personnel.			

Daily Science Report

5/14/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Tue 14 May

We will complete Seq #4 shortly after the day change. We're picking up the source array for maintenance during the long line change to Seq #5.

The second activated SRD came free from the streamer allowing the streamer to drop back down to 12 meters at the tail.

Daily Comment Summaries - Plan for Tomorrow

Tue 14 May

We will redeploy the source arrays and begin acquiring MCS data on Seq #5.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Tue 14. May 00:00	Tue 14. May 24:00	24.000
SOL Seq 4 Line:L01MC Block=Emperor Sea Mounts FGSP=5470 FCSP=N/AHdg=77.2° Prime MSP Seq 4 Line:L01MC Block=Emperor Sea Mounts LGSP=8526 LCSP=8526 Midnight				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

14-May	Hours	%Percent
Acquisition	24.000	100.000
Production Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	%Percent
Mobilisation	509.350	75.796
Deployment	63.300	9.420
Mob Ashore	144.000	21.429
Reconfiguration	66.733	9.931
Transit to Prospect	235.317	35.017
Acquisition	129.650	19.293
Prime Line Change	0.133	0.020
Production Prime	129.517	19.273
DownTime	2.217	0.330
Source	2.217	0.330

Daily Science Report

5/14/2019

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Category	Hours	% Percent
Chargeable Standby	3.233	0.481
Reconfiguration	3.233	0.481
Source Reconfig	3.233	0.481
Non-Chargeable StandBy	27.550	4.100
Weather	27.550	4.100
Total	672.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Acpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
4	L01MC	77.2	5470	8526	Prime	191.06	4.086	Part	Midnight
Total						191.06			

Production Totals (Acpt km by interval) - Full Fold

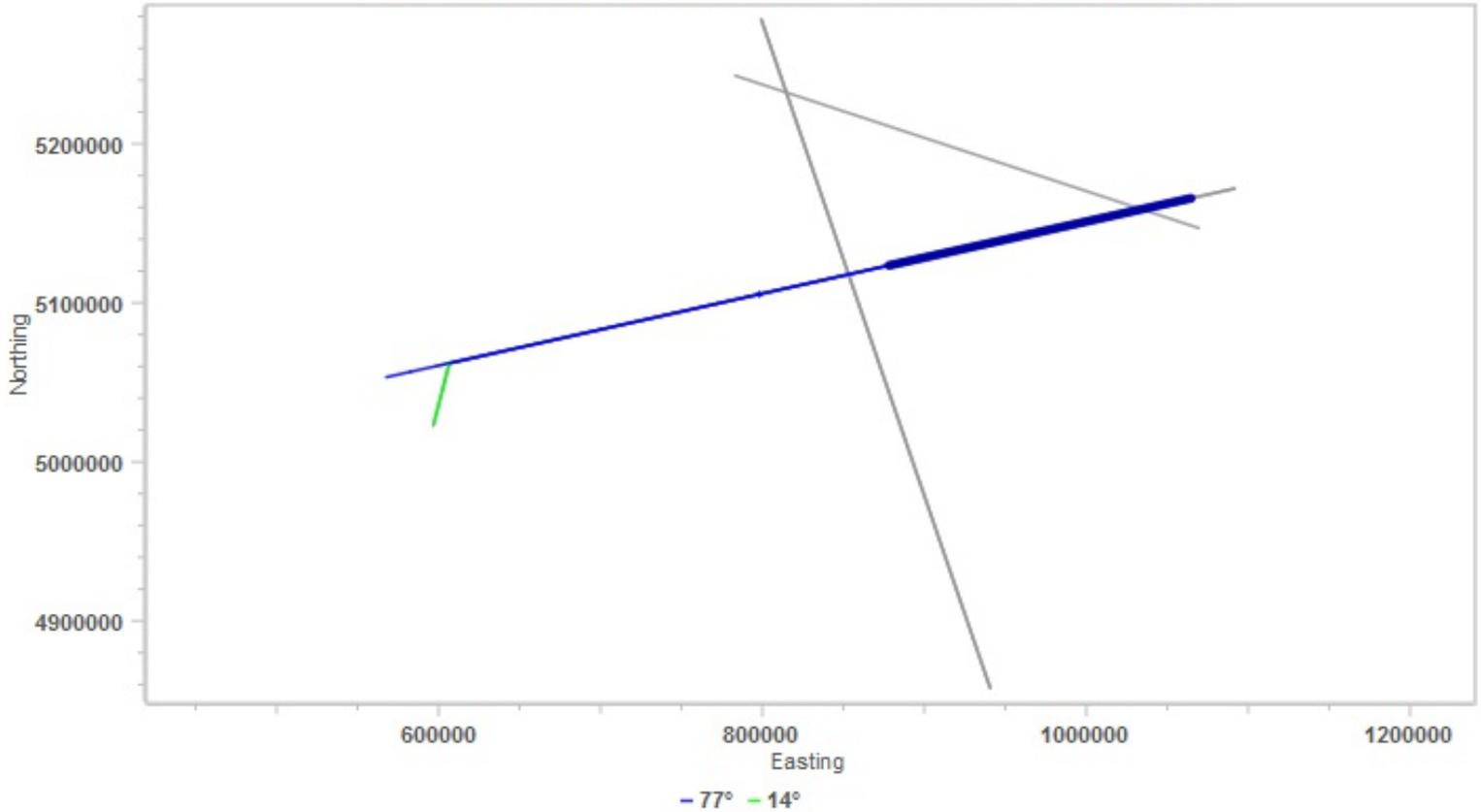
Accepted km	Day	Week	Month	Project
Prime	191.06	373.94	1003.44	1003.44
Combined	191.06	373.94	1003.44	1003.44

Daily Science Report

5/14/2019

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Emperor Sea Mounts: Acppt (4/17/2019 - 5/14/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 14 May

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (OBS):

Both activated SRD's are free from the streamer.

Towing and Handling (Source):

Picking up source array's #1, #4 for maintenance.

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Tue 14 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Tue May 14 2019 02:52p.m.

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Andrea Zavaia RPS PAM / PSO
 Ana Hernandez RPS PSO
 Veronica Gonzales RPS PSO
 Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
 Watts, Anthony Oxford PI
 Dunn, Robert University of Hawaii PI
 Boston, Brian - LDEO
 Cortes-Rivas, Valeria - University of Chil
 Fortin, Will - LDEO
 Tsekhmistrenko, Maria - Oxford
 Harper, Hugh - Scripps
 Lei, Mei - University of Houston
 Nyugen, Luan - Rice University
 Leebum, Jeff - PSU
 Filbrandt, Christian - Geomar OBS Tech
 Gomez Laura - Geomar OBS Tech
 Schroeder, Patrick - Geomar OBS Tech
 Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
 Fire Drill	Drls_Fi	Tue 14. May 20:20	Tue 14. May 20:52
HSE - Fire Drill			
 Abandon Ship Drill	Drls_AS	Tue 14. May 20:52	Tue 14. May 21:10
HSE - Abandon Ship Drill			

Daily Total Category	Code	Count
 Toolbox Meetings	Mtgs_Tbox	2
5/14/2019		
Toolbox meeting for retrieving source array. Toolbox meeting for deploying source array.		

Daily Science Report

5/15/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Wed 15 May

We completed MGL1902 MC01 at 03:09 UTC. We picked up source sub-array's #4, #3, #1 for maintenance and repairs during the long line change.

We had a gun start to auto-fire at the end of MC01 so we finished this sequence with only two sub-array's firing so we could address the repairs immediately. (Gun 4-5 was the culprit).

We are currently acquiring data on MGL1902 MC03.

Weather and seas are favorable.

Daily Comment Summaries - Plan for Tomorrow

Wed 15 May

We will acquire data on MGL1902 MC03 for the entire day.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 15. May 00:00	Wed 15. May 03:59	3.983
SOL Seq 4 Line:L01MC Block=Emperor Sea Mounts FGSP=8527 Hdg=77.2° Prime EOL Seq 4 Line:L01MC Block=Emperor Sea Mounts LGSP=9026 Complete				
Prime Extended L/C	AC_PXL	Wed 15. May 03:59	Wed 15. May 10:09	6.167
Extended Prime line change.				
Production Prime	AC_PP	Wed 15. May 10:09	Wed 15. May 24:00	13.850
SOL Seq 5 Line:L03MC Block=Emperor Sea Mounts FGSP=1099 FCSP=N/AHdg=288.5° Prime MSP Seq 5 Line:L03MC Block=Emperor Sea Mounts LGSP=2558 LCSP=2558 Midnight				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

15-May	Hours	%Percent
Acquisition	24.000	100.000
Prime Extended L/C	6.167	25.694
Production Prime	17.833	74.306
Day's Total	24.000	100.000

Daily Science Report

5/15/2019

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Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	509.350	73.182
Deployment	63.300	9.095
Mob Ashore	144.000	20.690
Reconfiguration	66.733	9.588
Transit to Prospect	235.317	33.810
Acquisition	153.650	22.076
Prime Extended L/C	6.167	0.886
Prime Line Change	0.133	0.019
Production Prime	147.350	21.171
DownTime	2.217	0.318
Source	2.217	0.318
Chargeable Standby	3.233	0.465
Reconfiguration	3.233	0.465
Source Reconfig	3.233	0.465
Non-Chargeable StandBy	27.550	3.958
Weather	27.550	3.958
Total	696.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
4	L01MC	77.2	8527	9026	Prime	31.25	4.095	Complete	Complete
5	L03MC	288.5	1099	2558	Prime	91.19	3.555	Part	Midnight
Total						122.44			

Daily Science Report

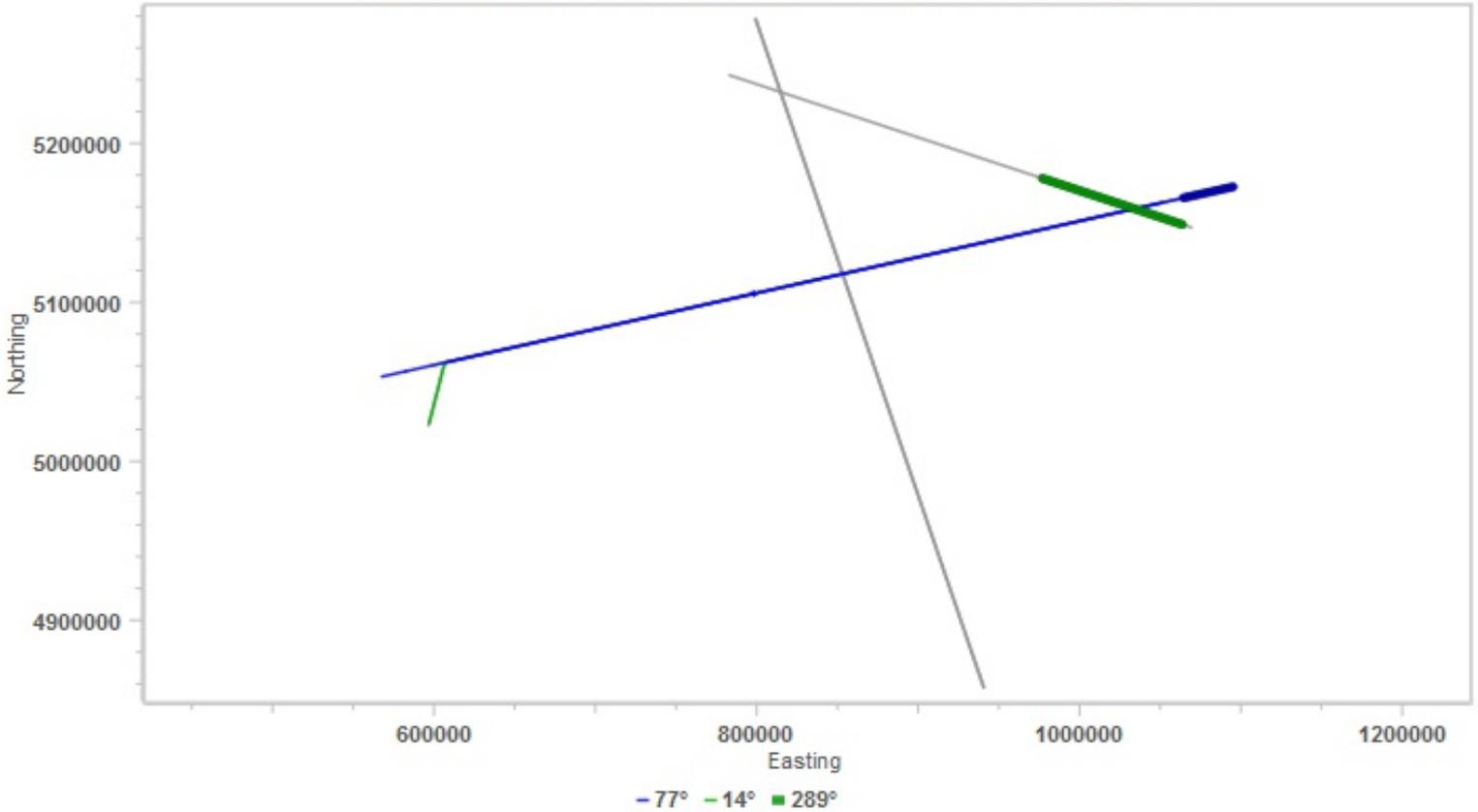
5/15/2019

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Production Totals (Acpt km by interval) - Full Fold

Accepted km	Day	Week	Month	Project
Prime	122.44	496.38	1125.88	1125.88
Combined	122.44	496.38	1125.88	1125.88

Emperor Sea Mounts: Acpt (4/17/2019 - 5/15/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 15 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):

Sub-array #1 has a 360 ci gun inoperable. Source Volume is 6420 ci

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 15 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Wed May 15 2019 02:39p.m.

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Daily Science Report

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Page 4

Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		3
5/15/2019			
Toolbox for retrieving source arrays. Toolbox for re-deploying source array with large crab angle and close head floats. Toolbox for securing the decks, vents and hatches.			

Daily Science Report

5/16/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Thu 16 May

We completed MGL1902 MC03 at 22:48 UTC and then did an inside turn to hot-start MGL1902-MC02. This shortened the north-south strike line and eliminated the long outside turn for line change.

We started MGL1902-MC02 at 23:53 and will complete the MCS line in approximately two days. Saturday afternoon local time.

Daily Comment Summaries - Plan for Tomorrow

Thu 16 May

We will acquire data on MGL1902- MC02 all day.

We will make all preparations to retrieve the entire streamer on Saturday afternoon, including the reconfiguration for next mission.

Weather remains favorable for all MCS work.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Production Prime	AC_PP	Thu 16. May 00:00	Thu 16. May 22:48	22.800
SOL Seq 5 Line:L03MC Block=Emperor Sea Mounts FGSP=2559 Hdg=288.5° Prime EOL Seq 5 Line:L03MC Block=Emperor Sea Mounts LGSP=5227 Complete				
Prime Line Change	AC_PLC	Thu 16. May 22:48	Thu 16. May 23:53	1.083
Prime line change.				
Production Prime	AC_PP	Thu 16. May 23:53	Thu 16. May 24:00	0.117
SOL Seq 6 Line:L02MC Block=Emperor Sea Mounts FGSP=6159 FCSP=N/AHdg=161.4° Prime MSP Seq 6 Line:L02MC Block=Emperor Sea Mounts LGSP=6143 LCSP=6143 Midnight				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

16-May	Hours	%Percent
Acquisition	24.000	100.000
Prime Line Change	1.083	4.514
Production Prime	22.917	95.486
Day's Total	24.000	100.000

Daily Science Report

5/16/2019

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Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	509.350	70.743
Deployment	63.300	8.792
Mob Ashore	144.000	20.000
Reconfiguration	66.733	9.269
Transit to Prospect	235.317	32.683
Acquisition	177.650	24.674
Prime Extended L/C	6.167	0.856
Prime Line Change	1.217	0.169
Production Prime	170.267	23.648
DownTime	2.217	0.308
Source	2.217	0.308
Chargeable Standby	3.233	0.449
Reconfiguration	3.233	0.449
Source Reconfig	3.233	0.449
Non-Chargeable StandBy	27.550	3.826
Weather	27.550	3.826
Total	720.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
5	L03MC	288.5	2559	5227	Prime	166.81	3.801	Complete	Complete
6	L02MC	161.4	6159	6143	Prime	1.00	4.628	Part	Midnight
Total						167.81			

Daily Science Report

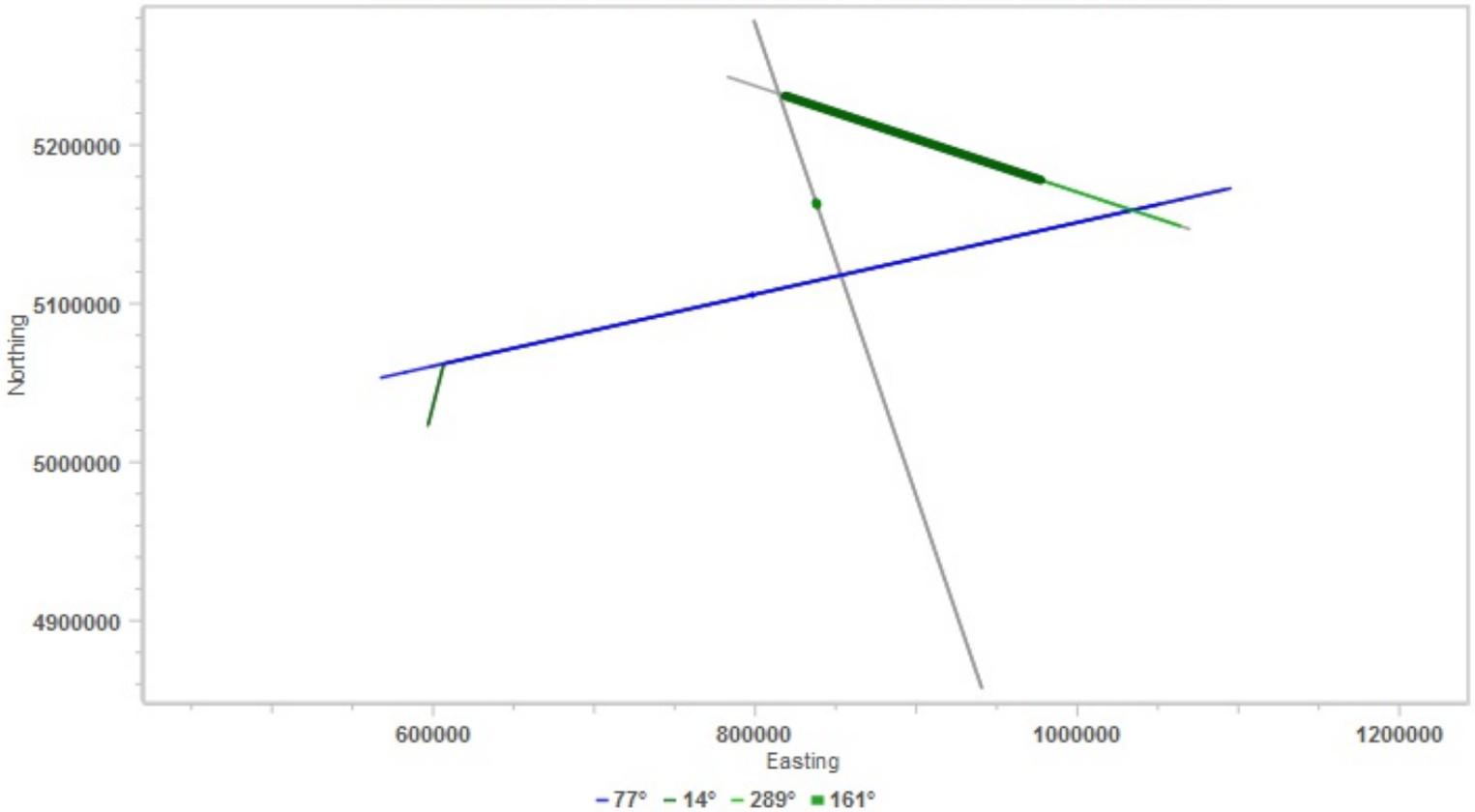
5/16/2019

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Production Totals (Acpt km by interval) - Full Fold

Accepted km	Day	Week	Month	Project
Prime	167.81	664.19	1293.69	1293.69
Combined	167.81	664.19	1293.69	1293.69

Emperor Sea Mounts: Acpt (4/17/2019 - 5/16/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 16 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

Daily Comment Summaries - Personnel Onboard

Thu 16 May

Technical Staff On-board the Langseth

- Todd Jensvold L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Alan Thompson L-DEO OMO Marine Science Technician - Nav
- Shaun Shaver L-DEO OMO Marine Science Technician - Source
- Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Daily Science Report

5/16/2019

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Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		2
5/16/2019			
Toolbox meeting to discuss moving sections from reel #4 onto the spares reel. Need 4 people, 3 remotes. Toolbox meeting to discuss swapping out gun trolleys.			

Daily Science Report

5/17/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Fri 17 May

We acquired data all day on MGL1902 MC02.

We made preparations to begin retrieving MCS and for deploying OBS's.

Daily Comment Summaries - Plan for Tomorrow

Fri 17 May

We will acquire data on MGL1902 MC02 through out the day. We will begin picking up the gear shortly afterwards.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Code	Start	End	Duration
Production Prime	AC_PP	Fri 17. May 00:00	Fri 17. May 24:00	24.000
SOL Seq 6 Line:L02MC Block=Emperor Sea Mounts FGSP=1952 FCSP=N/AHdg=161.4° Prime MSP Seq 6 Line:L02MC Block=Emperor Sea Mounts LGSP=4926 LCSP=4926 Midnight				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

17-May	Hours	%Percent
Acquisition	24.000	100.000
Production Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	%Percent
Mobilisation	509.350	68.461
Deployment	63.300	8.508
Mob Ashore	144.000	19.355
Reconfiguration	66.733	8.970
Transit to Prospect	235.317	31.629
Acquisition	201.650	27.103
Prime Extended L/C	6.167	0.829
Prime Line Change	1.217	0.164
Production Prime	194.267	26.111
DownTime	2.217	0.298

Daily Science Report

5/17/2019

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Category	Hours	%Percent
Source	2.217	0.298
Chargeable Standby	3.233	0.435
Reconfiguration	3.233	0.435
Source Reconfig	3.233	0.435
Non-Chargeable StandBy	27.550	3.703
Weather	27.550	3.703
Total	744.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
6	L02MC	161.4	1952	4926	Prime	185.94	4.185	Part	Midnight
Total						185.94			

Production Totals (Accpt km by interval) - Full Fold

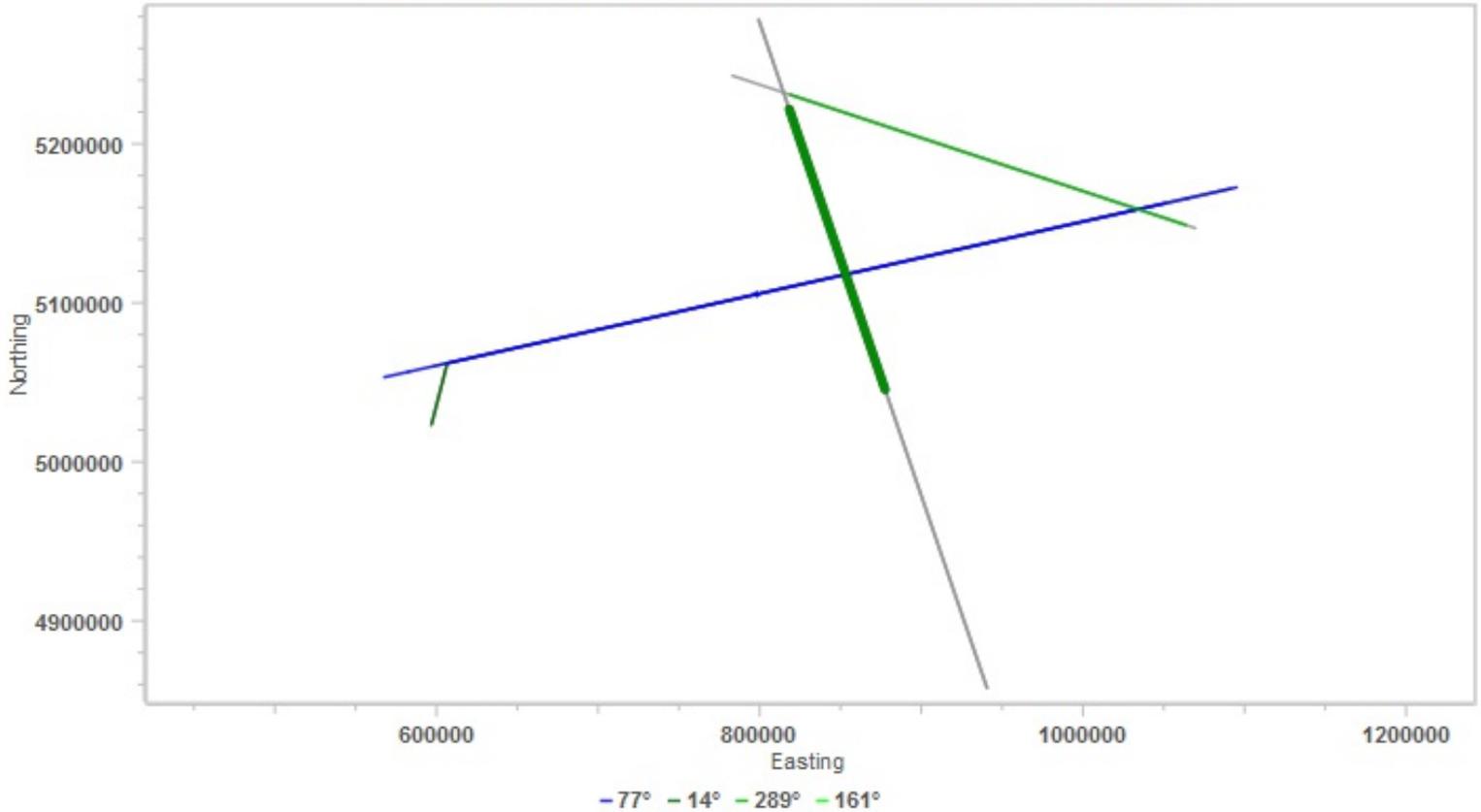
Accepted km	Day	Week	Month	Project
Prime	185.94	850.12	1479.62	1479.62
Combined	185.94	850.12	1479.62	1479.62

Daily Science Report

5/17/2019

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Emperor Sea Mounts: Acppt (4/17/2019 - 5/17/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 17 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

Daily Comment Summaries - Personnel Onboard

Fri 17 May

Technical Staff On-board the Langseth

- Todd Jensvold L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Alan Thompson L-DEO OMO Marine Science Technician - Nav
- Shaun Shaver L-DEO OMO Marine Science Technician - Source
- Gilles Guerin L-DEO OMO Marine Science Technician - Obs
- Chris Abdouch Contract Personnel Marine Science Technician (NAV)
- Max Skalko Contract Personnel Marine Science Technician (Source)
- Edmond St. Amant Contract Personnel Marine Science Technician (Source)
- Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

- Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Fri May 17 2019 07:19p.m.

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Daily Science Report

5/17/2019

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Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		3
5/17/2019			
Toolbox meeting to discuss moving sections from reel to reel. Toolbox meeting to discuss damaged stairway. Toolbox meeting to discuss moving sections across main deck. Toolbox meeting to discuss BioWave deck-lead.			

Daily Science Report

5/18/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sat 18 May

We acquired data on MGL1902 MC02 all day.

Daily Comment Summaries - Plan for Tomorrow

Sat 18 May

We will complete the final MCS line for this mission and begin retrieving the source array at approximately 4PM local time. MCS will come onboard shortly afterwards.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Production Prime	AC_PP	Sat 18. May 00:00	Sat 18. May 24:00	24.000
SOL Seq 6 Line:L02MC Block=Emperor Sea Mounts FGSP=4927 FCSP=N/AHdg=161.4° Prime				
MSP Seq 6 Line:L02MC Block=Emperor Sea Mounts LGSP=7820 LCSP=7820 Midnight				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

18-May	Hours	% Percent
Acquisition	24.000	100.000
Production Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	509.350	66.322
Deployment	63.300	8.242
Mob Ashore	144.000	18.750
Reconfiguration	66.733	8.689
Transit to Prospect	235.317	30.640
Acquisition	225.650	29.382
Prime Extended L/C	6.167	0.803
Prime Line Change	1.217	0.158
Production Prime	218.267	28.420
DownTime	2.217	0.289
Source	2.217	0.289
Chargeable Standby	3.233	0.421

Daily Science Report

5/18/2019

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Category	Hours	% Percent
Reconfiguration	3.233	0.421
Source Reconfig	3.233	0.421
Non-Chargeable StandBy	27.550	3.587
Weather	27.550	3.587
Total	768.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
6	L02MC	161.4	4927	7820	Prime	180.88	4.128	Part	Midnight
Total						180.88			

Production Totals (Accpt km by interval) - Full Fold

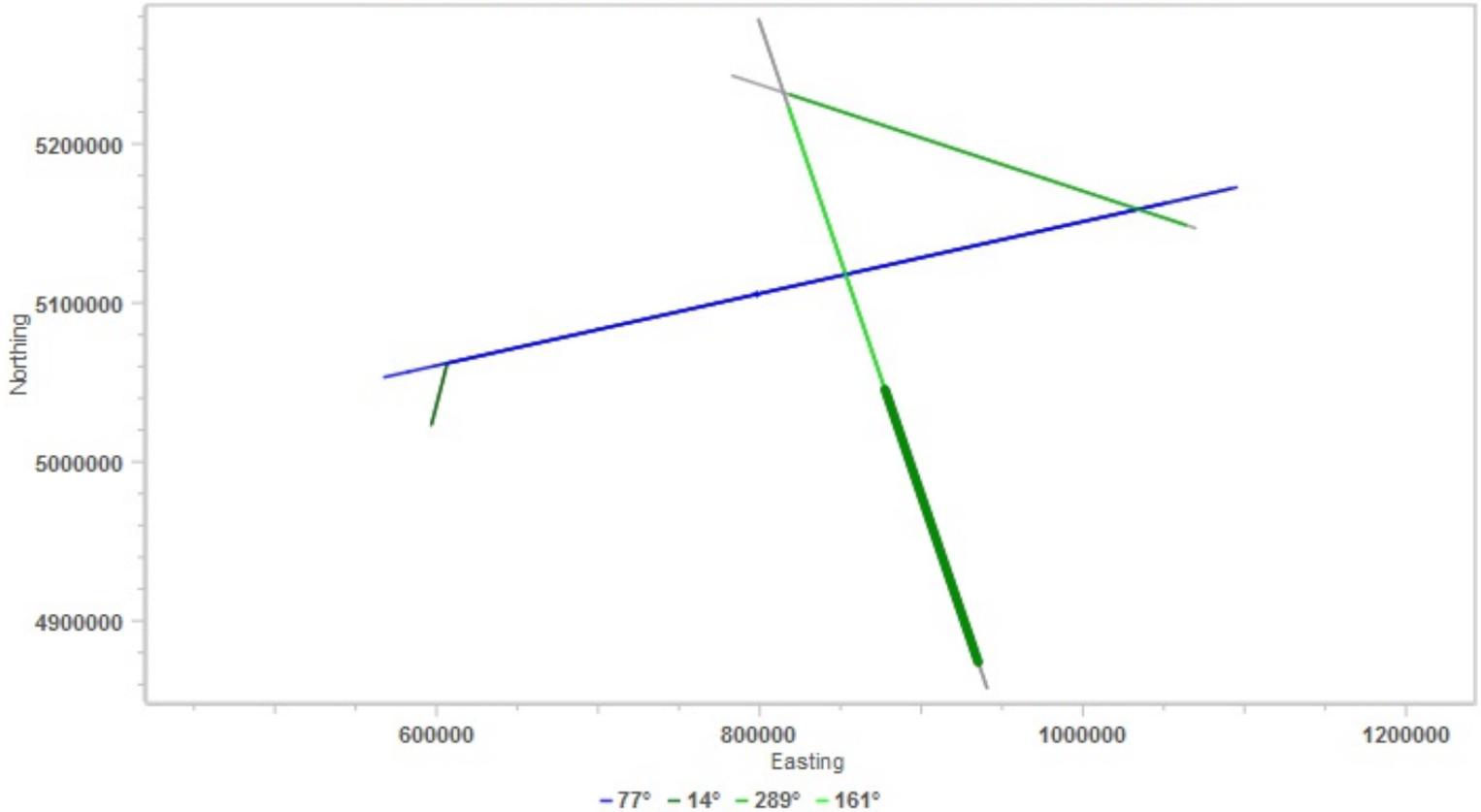
Accepted km	Day	Week	Month	Project
Prime	180.88	1031.00	1660.50	1660.50
Combined	180.88	1031.00	1660.50	1660.50

Daily Science Report

5/18/2019

Page 3

Emperor Sea Mounts: Acppt (4/17/2019 - 5/18/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 18 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

Daily Comment Summaries - Personnel Onboard

Sat 18 May

Technical Staff On-board the Langseth

- Todd Jensvold L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Alan Thompson L-DEO OMO Marine Science Technician - Nav
- Shaun Shaver L-DEO OMO Marine Science Technician - Source
- Gilles Guerin L-DEO OMO Marine Science Technician - Obs
- Chris Abdouch Contract Personnel Marine Science Technician (NAV)
- Max Skalko Contract Personnel Marine Science Technician (Source)
- Edmond St. Amant Contract Personnel Marine Science Technician (Source)
- Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

- Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Sat May 18 2019 02:37p.m.

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Daily Science Report

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Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		2
5/18/2019			
Toolbox Meeting. Discussed risks and roles to transfer tail buoy onto main deck. Toolbox meeting to discuss source retrieval and the sea state and course direction.			

Daily Science Report

5/19/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sun 19 May

MCS was onboard 12:16 UTC. It took approximately ten hours to pick up the gear.

We started deploying OBS's at 13:27 UTC. We have eleven OBS's deployed by 24:00 UTC.

Daily Comment Summaries - Plan for Tomorrow

Sun 19 May

We will continue deploying OBS's for most of the day. Estimated last OBS deployment is at approximately 17:00 UTC Monday.

We will then deploy guns and start acquiring data for the rest of the day.

Weather is becoming marginal.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emporer)



Category	Code	Start	End	Duration
Production Prime	AC_PP	Sun 19. May 00:00	Sun 19. May 02:05	2.083
SOL Seq 6 Line:L02MC Block=Emperor Sea Mounts FGSP=4927 FCSP=N/AHdg=161.4° Prime MSP Seq 6 Line:L02MC Block=Emperor Sea Mounts LGSP=7820 LCSP=7820 Midnight				
Reconfiguration	MB_RC	Sun 19. May 02:05	Sun 19. May 05:00	2.917
Recovering gun strings 1-4, PAM, and Magnetometer				
Reconfiguration	MB_RC	Sun 19. May 05:00	Sun 19. May 12:16	7.267
Recovering streamer Tail buoy recovered and streamer deck secured 12:16				
Deployment	MB_DP	Sun 19. May 12:16	Sun 19. May 13:29	1.217
Deploy OBS 228				
Deployment	MB_DP	Sun 19. May 13:29	Sun 19. May 14:56	1.450
Deploy OBS 227 - took some time troubleshooting OBS				
Deployment	MB_DP	Sun 19. May 14:56	Sun 19. May 15:49	0.883
Deploy OBS 226				
Deployment	MB_DP	Sun 19. May 15:49	Sun 19. May 16:40	0.850
Deploy OBS 225				
Deployment	MB_DP	Sun 19. May 16:40	Sun 19. May 17:51	1.183
Deploy OBS 224				

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Category	Code	Start	End	Duration
Deployment	MB_DP	Sun 19. May 17:51	Sun 19. May 18:45	0.900
Deployed OBS 223				
Deployment	MB_DP	Sun 19. May 18:45	Sun 19. May 19:39	0.900
Deployed OBS 222				
Deployment	MB_DP	Sun 19. May 19:39	Sun 19. May 20:36	0.950
Deployed OBS 221				
Deployment	MB_DP	Sun 19. May 20:36	Sun 19. May 21:50	1.233
Deployed OBS 220				
Deployment	MB_DP	Sun 19. May 21:50	Sun 19. May 22:51	1.017
Deployed OBS 219				
Deployment	MB_DP	Sun 19. May 22:51	Sun 19. May 23:44	0.883
Deployed OBS 218				
Deployment	MB_DP	Sun 19. May 23:44	Sun 19. May 24:00	0.267
Deployed OBS 217				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

19-May	Hours	% Percent
Acquisition	2.083	8.681
Production Prime	2.083	8.681
Mobilisation	21.917	91.319
Deployment	11.733	48.889
Reconfiguration	10.183	42.431
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	531.267	67.079
Deployment	75.033	9.474
Mob Ashore	144.000	18.182
Reconfiguration	76.917	9.712
Transit to Prospect	235.317	29.712
Acquisition	227.733	28.754
Prime Extended L/C	6.167	0.779
Prime Line Change	1.217	0.154
Production Prime	220.350	27.822
DownTime	2.217	0.280
Source	2.217	0.280
Chargeable Standby	3.233	0.408
Reconfiguration	3.233	0.408
Source Reconfig	3.233	0.408
Non-Chargeable StandBy	27.550	3.479

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Category	Hours	% Percent
Weather	27.550	3.479
Total	792.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
6	L02MC	161.4	7821	8084	Prime	16.50	4.134	Complete	Complete
Total						16.50			

Production Totals (Accpt km by interval) - Full Fold

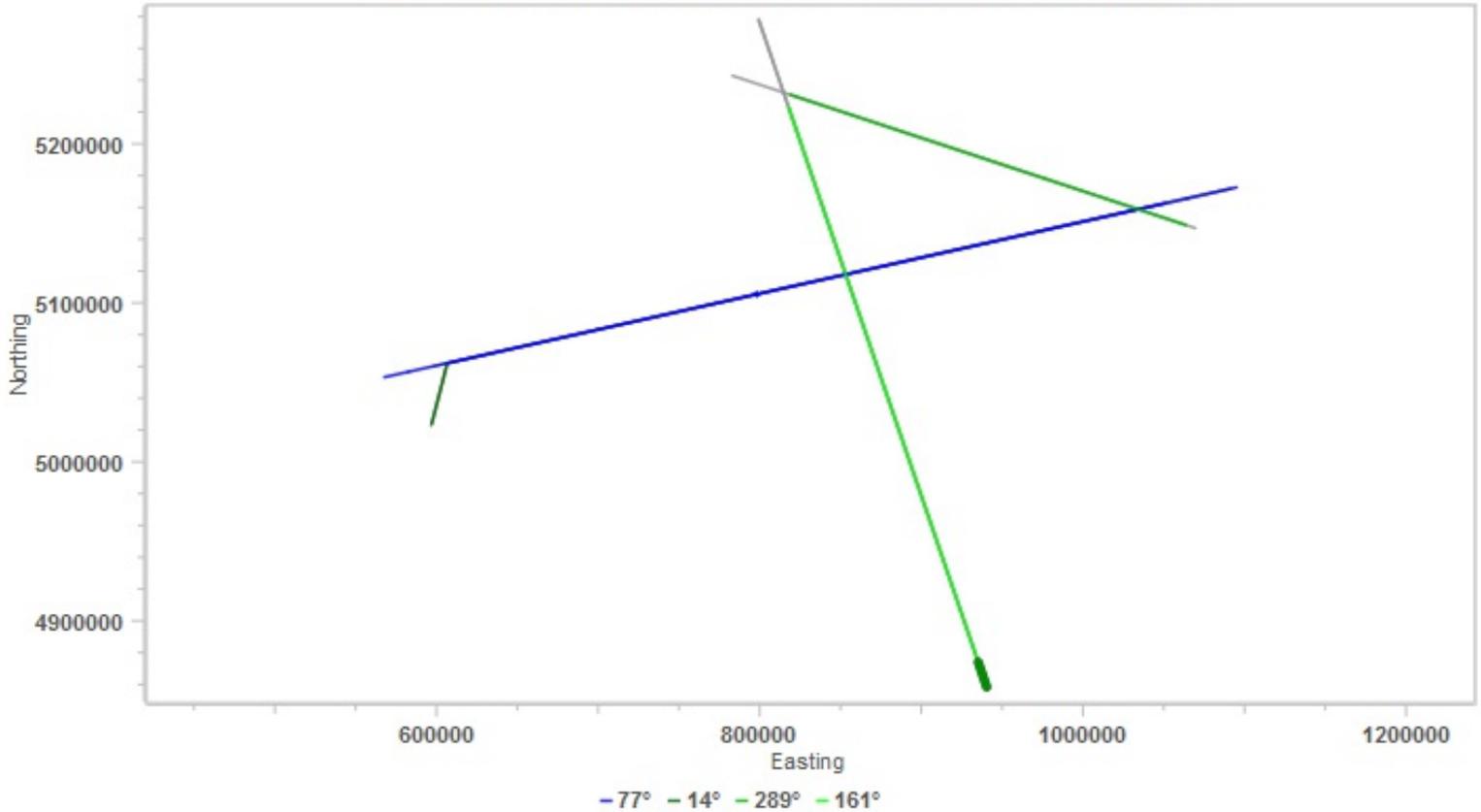
Accepted km	Day	Week	Month	Project
Prime	16.50	1047.50	1677.00	1677.00
Combined	16.50	1047.50	1677.00	1677.00

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Emperor Sea Mounts: Acppt (4/17/2019 - 5/19/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 19 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

Daily Comment Summaries - Personnel Onboard

Sun 19 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Sun May 19 2019 02:01p.m.

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Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		3
5/19/2019			
Toolbox to discuss OBS deployments Toolbox to discuss source array modifications Toolbox meeting bird removal and handling w/students			

Daily Science Report

5/20/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Mon 20 May

All OBS's deployed at 22:19 UTC.

We stopped deploying OBS's for a few hours last night due to the adverse sea state.

We turned into the seas and started deploying the guns at approximately 22:27 UTC; All guns deployed at 23:54. Soft-start completed shortly after the day change.

Daily Comment Summaries - Plan for Tomorrow

Mon 20 May

We will acquire data all day on MGL1902 OB02. Final sequence!

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Deployment	MB_DP	Mon 20. May 00:00	Mon 20. May 00:34	0.567
Deployed OBS 217				
Deployment	MB_DP	Mon 20. May 00:34	Mon 20. May 02:09	1.583
Deployed OBS 216				
Deployment	MB_DP	Mon 20. May 02:09	Mon 20. May 03:40	1.517
Deployed OBS 215				
Deployment	MB_DP	Mon 20. May 03:40	Mon 20. May 05:14	1.567
Deployed OBS 214				
Deployment	MB_DP	Mon 20. May 05:14	Mon 20. May 06:13	0.983
Deployed OBS 213				
Deployment	MB_DP	Mon 20. May 06:13	Mon 20. May 07:16	1.050
Deployed OBS 212				
Deployment	MB_DP	Mon 20. May 07:16	Mon 20. May 08:21	1.083
Deployed OBS 211				
Deployment	MB_DP	Mon 20. May 08:21	Mon 20. May 10:25	2.067
Deploying OBS 210				
Weather	SB_WX	Mon 20. May 10:25	Mon 20. May 13:10	2.750
Chargeable standby due to weather.				
Deployment	MB_DP	Mon 20. May 13:10	Mon 20. May 14:04	0.900

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Category	Code	Start	End	Duration
Deploy OBS 209				
Deployment	MB_DP	Mon 20. May 14:04	Mon 20. May 15:05	1.017
Deploy OBS 208				
Deployment	MB_DP	Mon 20. May 15:05	Mon 20. May 16:01	0.933
Deploy OBS 207				
Deployment	MB_DP	Mon 20. May 16:01	Mon 20. May 17:00	0.983
Deploy OBS 206				
Deployment	MB_DP	Mon 20. May 17:00	Mon 20. May 17:58	0.967
Deploy OBS 205				
Deployment	MB_DP	Mon 20. May 17:58	Mon 20. May 19:05	1.117
Deploy OBS 204				
Deployment	MB_DP	Mon 20. May 19:05	Mon 20. May 20:03	0.967
Deploy OBS 203				
Deployment	MB_DP	Mon 20. May 20:03	Mon 20. May 21:02	0.983
Deployed OBS 202				
Deployment	MB_DP	Mon 20. May 21:02	Mon 20. May 22:19	1.283
Deployed OBS 201				
Deployment	MB_DP	Mon 20. May 22:19	Mon 20. May 23:57	1.633
Deploying PAM, Magnetometer and Gunstrings				
Deployment	MB_DP	Mon 20. May 23:57	Mon 20. May 24:00	0.050
Source Ramp-Up				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

20-May	Hours	% Percent
Chargeable Standby	2.750	11.458
Weather	2.750	11.458
Mobilisation	21.250	88.542
Deployment	21.250	88.542
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	552.517	67.710
Deployment	96.283	11.799
Mob Ashore	144.000	17.647
Reconfiguration	76.917	9.426
Transit to Prospect	235.317	28.838
Acquisition	227.733	27.908
Prime Extended L/C	6.167	0.756
Prime Line Change	1.217	0.149
Production Prime	220.350	27.004

Daily Science Report

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Category	Hours	% Percent
DownTime	2.217	0.272
Source	2.217	0.272
Chargeable Standby	5.983	0.733
Reconfiguration	3.233	0.396
Source Reconfig	3.233	0.396
Weather	2.750	0.337
Non-Chargeable StandBy	27.550	3.376
Weather	27.550	3.376
Total	816.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

Production Listing (Accpt km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accpt km by interval) - Full Fold

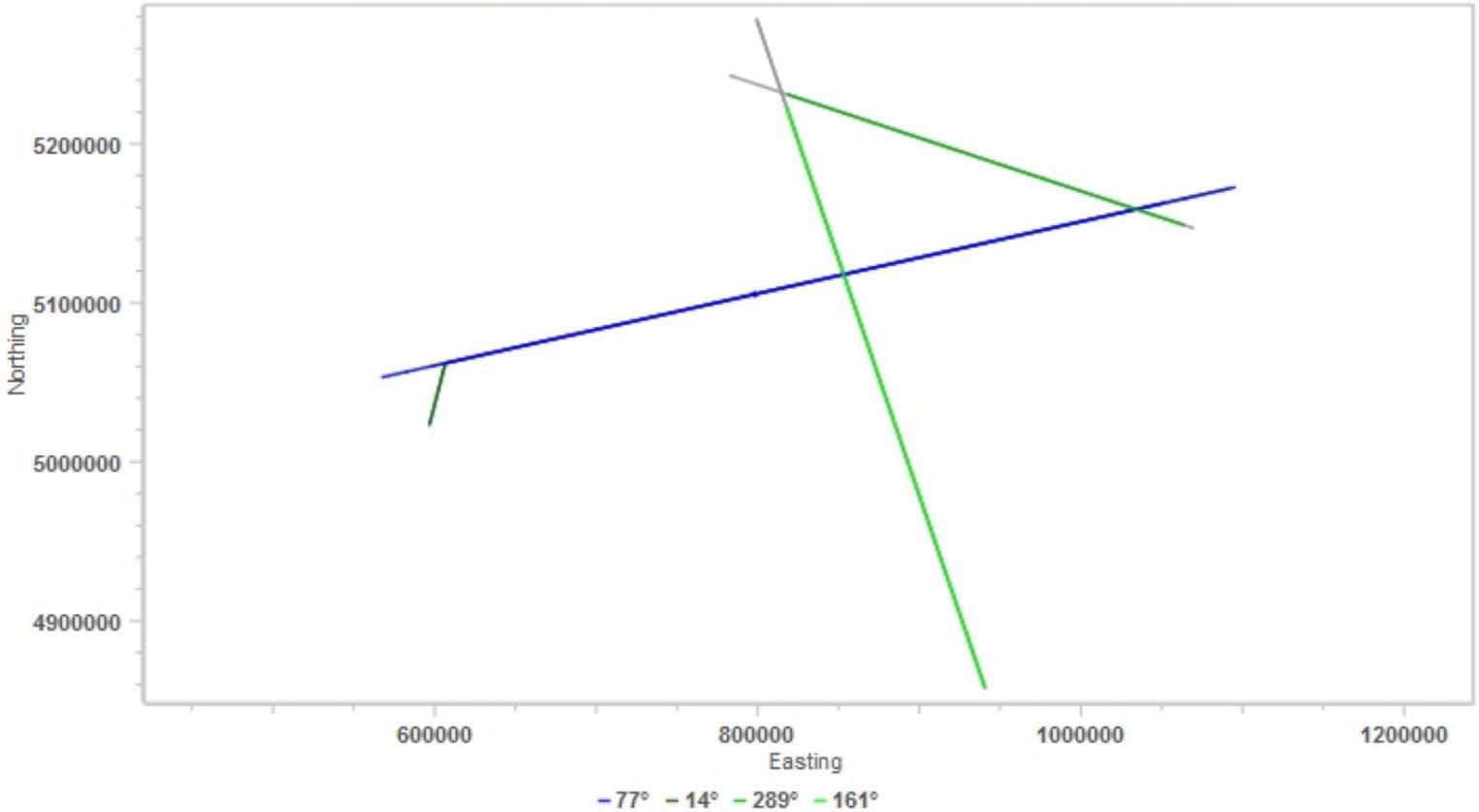
Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	1677.00	1677.00
Combined	0.00	0.00	1677.00	1677.00

Daily Science Report

5/20/2019

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Emperor Sea Mounts: Acppt (4/17/2019 - 5/20/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 20 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

Daily Comment Summaries - Personnel Onboard

Mon 20 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Mon May 20 2019 02:59p.m.

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Daily Science Report

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Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
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Daily Science Report

5/21/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Tue 21 May

We transited for a few hours to the SOL after deploying the guns. We then acquired data for the rest of the day on line MGL1902-OB02.

Daily Comment Summaries - Plan for Tomorrow

Tue 21 May

We will continue to shoot on the final sequence, Line MGL1902-OB02.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Deployment	MB_DP	Tue 21. May 00:00	Tue 21. May 00:17	0.283
Source Ramp-Up				
Transit	SB_TRT	Tue 21. May 00:17	Tue 21. May 03:38	3.350
Chargeable to start of line				
Production Prime	AC_PP	Tue 21. May 03:38	Tue 21. May 24:00	20.367
SOL Seq 7 Line:L02OB Block=Emperor Sea Mounts FGSP=950 FCSP=N/AHdg=161.4° Prime MSP Seq 7 Line:L02OB Block=Emperor Sea Mounts LGSP=3343 LCSP=3343 Midnight Midnight shot point				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

21-May	Hours	% Percent
Acquisition	20.367	84.861
Production Prime	20.367	84.861
Chargeable Standby	3.350	13.958
Transit	3.350	13.958
Mobilisation	0.283	1.181
Deployment	0.283	1.181
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	552.800	65.810
Deployment	96.567	11.496

Daily Science Report

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Category	Hours	% Percent
Mob Ashore	144.000	17.143
Reconfiguration	76.917	9.157
Transit to Prospect	235.317	28.014
Acquisition	248.100	29.536
Prime Extended L/C	6.167	0.734
Prime Line Change	1.217	0.145
Production Prime	240.717	28.657
DownTime	2.217	0.264
Source	2.217	0.264
Chargeable Standby	9.333	1.111
Reconfiguration	3.233	0.385
Source Reconfig	3.233	0.385
Transit	3.350	0.399
Weather	2.750	0.327
Non-Chargeable StandBy	27.550	3.280
Weather	27.550	3.280
Total	840.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
7	L02OB	161.4	950	3343	Prime	149.56	3.965	Part	Midnight
Total						149.56			

Daily Science Report

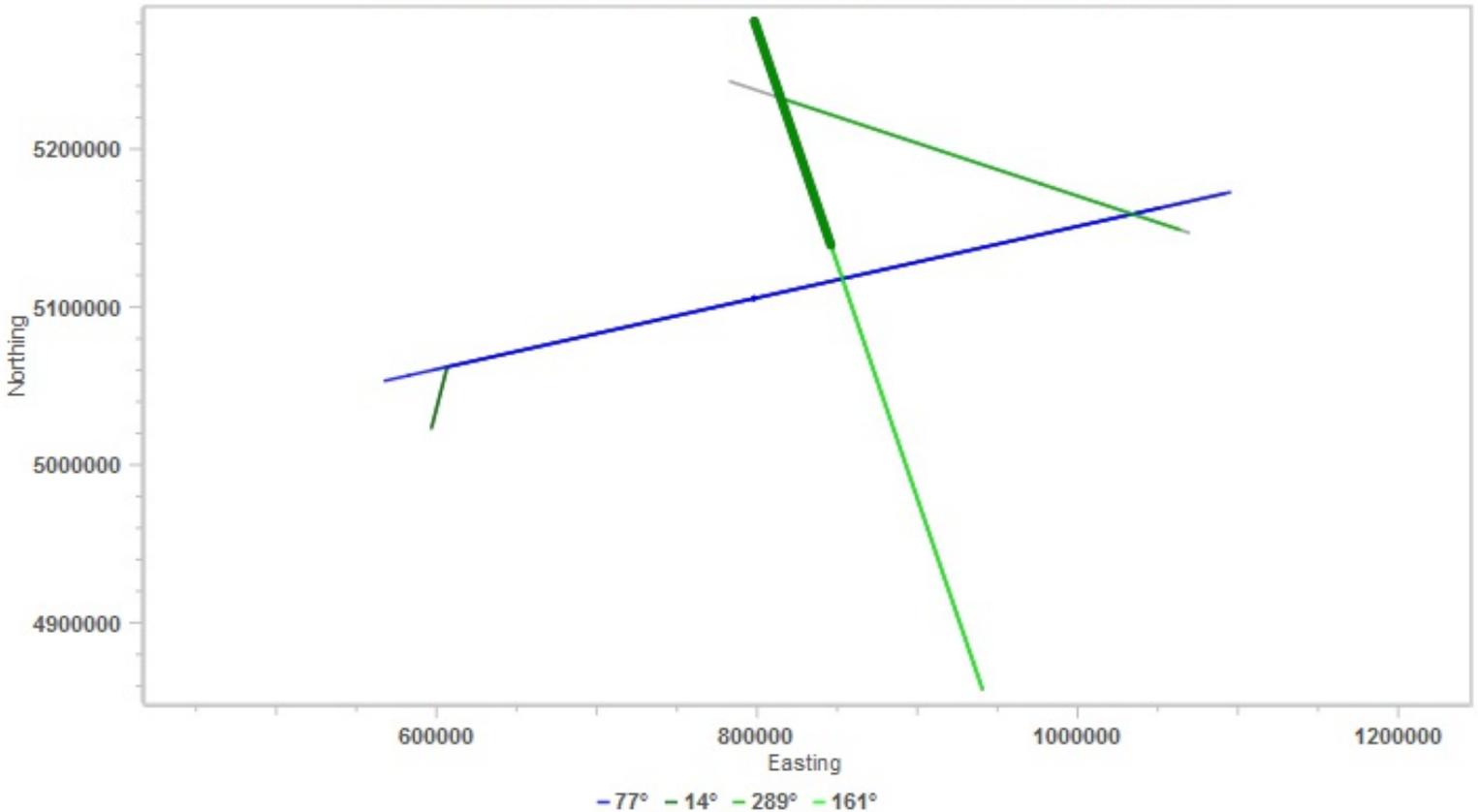
5/21/2019

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Production Totals (Acpt km by interval) - Full Fold

Accepted km	Day	Week	Month	Project
Prime	149.56	149.56	1826.56	1826.56
Combined	149.56	149.56	1826.56	1826.56

Emperor Sea Mounts: Acpt (4/17/2019 - 5/21/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 21 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):

Some coms issues with sub-array #1. Guns are firing, just occasional coms errors being reported.

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Tue 21 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Tue May 21 2019 02:19p.m.

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Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		2
5/21/2019			
Toolbox meeting to discuss rough weather source deployment. Toolbox meeting to discuss securing decks and work areas.			

Daily Science Report

5/22/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Wed 22 May

We acquired data on line MGL1902-MC02 all day.

Preparations have been made to recover all of the gear.

Daily Comment Summaries - Plan for Tomorrow

Wed 22 May

We will complete this line earlier than originally planned due to roughening seas on the 25th. This will provide time to recover the OBS's prior to this weather period.

We will start recovering PAM, magnetometer and gun-strings at approximately 08:30 UTC (10:30 pm local time). OBS recovery will begin immediately after the guns are onboard.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Production Prime	AC_PP	Wed 22. May 00:00	Wed 22. May 24:00	24.000
SOL Seq 7 Line:L02OB Block=Emperor Sea Mounts FGSP=3344 FCSP=N/AHdg=161.4° Prime MSP Seq 7 Line:L02OB Block=Emperor Sea Mounts LGSP=6172 LCSP=6172 Midnight Midnight shot point				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

22-May	Hours	% Percent
Acquisition	24.000	100.000
Production Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	552.800	63.981
Deployment	96.567	11.177
Mob Ashore	144.000	16.667
Reconfiguration	76.917	8.902
Transit to Prospect	235.317	27.236
Acquisition	272.100	31.493
Prime Extended L/C	6.167	0.714
Prime Line Change	1.217	0.141

Daily Science Report

5/22/2019

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Category	Hours	% Percent
Production Prime	264.717	30.639
DownTime	2.217	0.257
Source	2.217	0.257
Chargeable Standby	9.333	1.080
Reconfiguration	3.233	0.374
Source Reconfig	3.233	0.374
Transit	3.350	0.388
Weather	2.750	0.318
Non-Chargeable StandBy	27.550	3.189
Weather	27.550	3.189
Total	864.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
7	L02OB	161.4	3344	6172	Prime	176.81	3.972	Part	Midnight
Total						176.81			

Production Totals (Accpt km by interval) - Full Fold

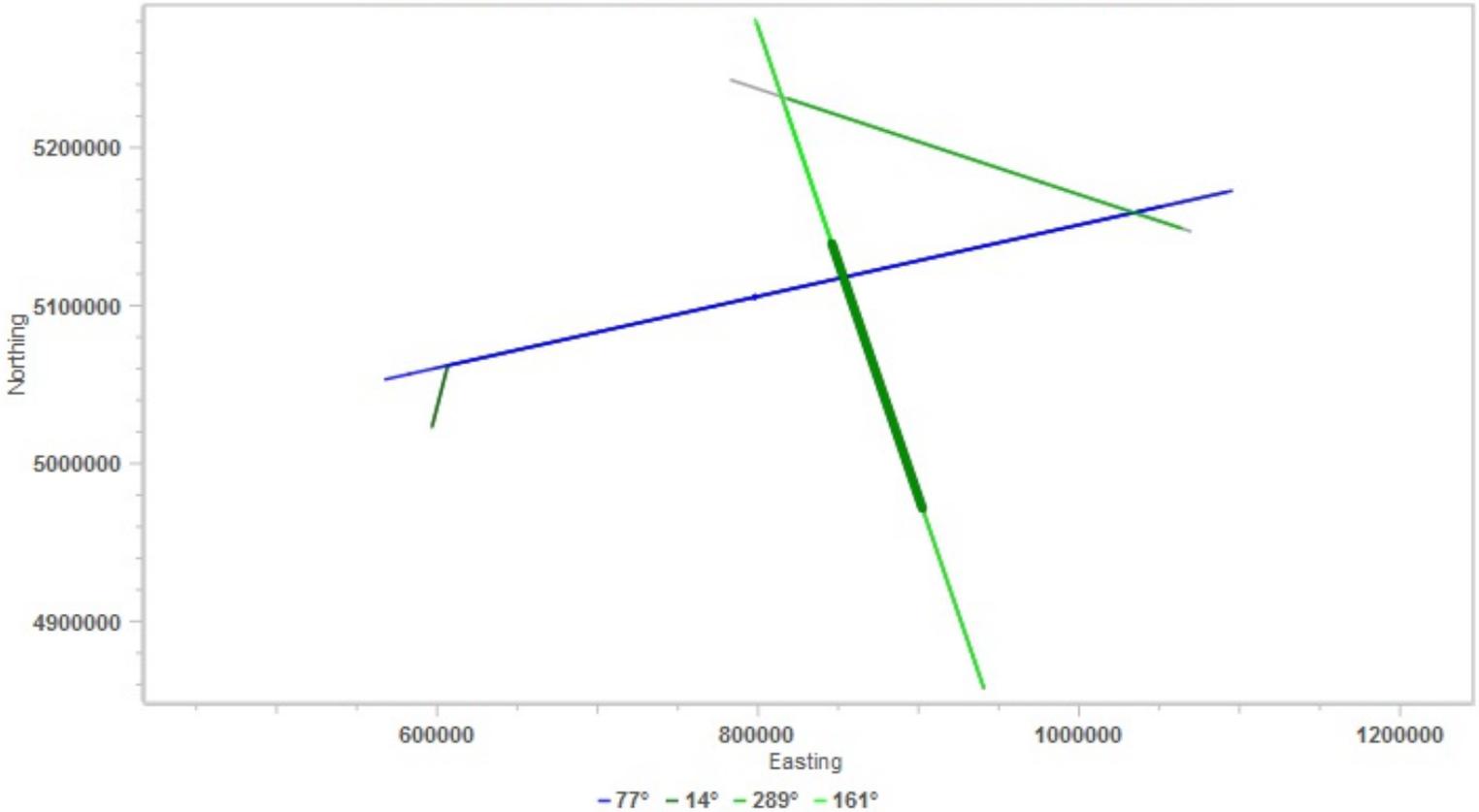
Accepted km	Day	Week	Month	Project
Prime	176.81	326.38	2003.38	2003.38
Combined	176.81	326.38	2003.38	2003.38

Daily Science Report

5/22/2019

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Emperor Sea Mounts: Acppt (4/17/2019 - 5/22/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 22 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):

We are having some coms errors on gunstring #1. QC function only.

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Wed 22 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Wed May 22 2019 02:44p.m.

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Daily Science Report

5/22/2019

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Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		1
5/22/2019			
Toolbox meeting to discuss rough wx on deck.			

Daily Science Report

5/23/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Thu 23 May

We finished the acquisition portion of the mission and picked up all of the guns. We are currently recovering all of the OBS's. We have ten out of twenty eight onboard, so far. (2:20 UTC)

The weather is perfect for speedy and safe OBS recovery's.

Daily Comment Summaries - Plan for Tomorrow

Thu 23 May

We will continue recovering OBS's all day.

Weather will deteriorate throughout the day.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Production Prime	AC_PP	Thu 23. May 00:00	Thu 23. May 08:53	8.883
SOL Seq 7 Line:L02OB Block=Emperor Sea Mounts FGSP=3344 FCSP=N/AHdg=161.4° Prime MSP Seq 7 Line:L02OB Block=Emperor Sea Mounts LGSP=6172 LCSP=6172 Midnight Midnight shot point				
Recovery	DM_RC	Thu 23. May 08:53	Thu 23. May 10:58	2.083
Recovering gun strings, PAM, and Magnetometer				
Recovery	DM_RC	Thu 23. May 10:58	Thu 23. May 12:33	1.583
Recovering OBS 228				
Recovery	DM_RC	Thu 23. May 12:33	Thu 23. May 14:38	2.083
Recovering OBS 227				
Recovery	DM_RC	Thu 23. May 14:38	Thu 23. May 15:54	1.267
Recovering OBS 226				
Recovery	DM_RC	Thu 23. May 15:54	Thu 23. May 18:00	2.100
Recover OBS 225				
Recovery	DM_RC	Thu 23. May 18:00	Thu 23. May 19:23	1.383
Recover OBS 224				
Recovery	DM_RC	Thu 23. May 19:23	Thu 23. May 20:47	1.400
Recover OBS 223				
Recovery	DM_RC	Thu 23. May 20:47	Thu 23. May 22:00	1.217

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Category	Code	Start	End	Duration
Recover OBS 222				
Recovery	DM_RC	Thu 23. May 22:00	Thu 23. May 23:28	1.467
Recover OBS 221				
Recovery	DM_RC	Thu 23. May 23:28	Thu 23. May 24:00	0.533
Recover OBS 220				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Empor)

23-May	Hours	% Percent
Acquisition	8.883	37.014
Production Prime	8.883	37.014
Demobilisation	15.117	62.986
Recovery	15.117	62.986
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Hours	% Percent
Mobilisation	552.800	62.252
Deployment	96.567	10.875
Mob Ashore	144.000	16.216
Reconfiguration	76.917	8.662
Transit to Prospect	235.317	26.500
Acquisition	280.983	31.642
Prime Extended L/C	6.167	0.694
Prime Line Change	1.217	0.137
Production Prime	273.600	30.811
Demobilisation	15.117	1.702
Recovery	15.117	1.702
DownTime	2.217	0.250
Source	2.217	0.250
Chargeable Standby	9.333	1.051
Reconfiguration	3.233	0.364
Source Reconfig	3.233	0.364
Transit	3.350	0.377
Weather	2.750	0.310
Non-Chargeable StandBy	27.550	3.102
Weather	27.550	3.102
Total	888.000	

Daily Science Report

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Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Acpt km by interval) - Full Fold

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
7	L02OB	161.4	6173	7344	Prime	73.25	4.052	Complete	Complete
Total						73.25			

Production Totals (Acpt km by interval) - Full Fold

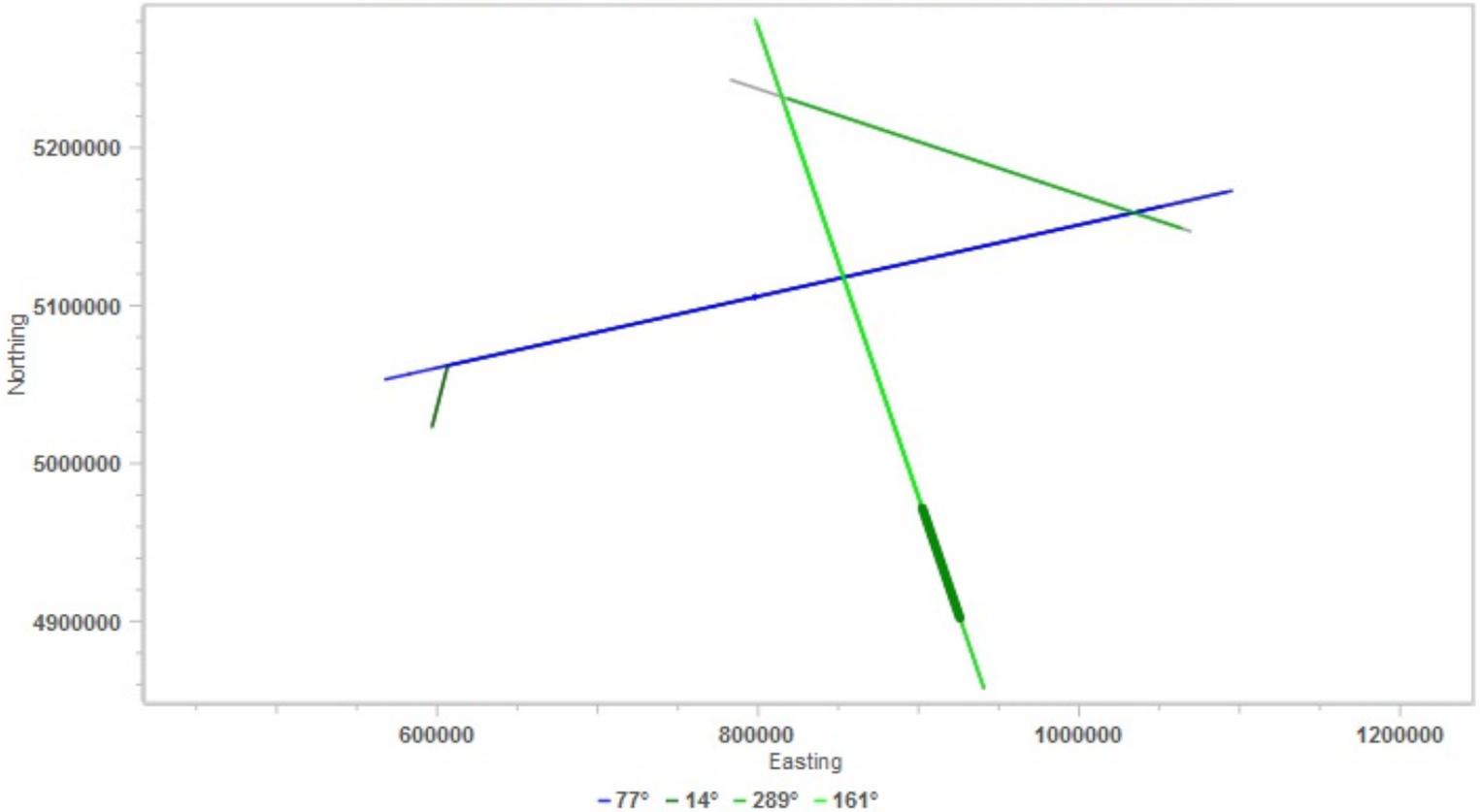
Accepted km	Day	Week	Month	Project
Prime	73.25	399.62	2076.62	2076.62
Combined	73.25	399.62	2076.62	2076.62

Daily Science Report

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Emperor Sea Mounts: Acpt (4/17/2019 - 5/23/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 23 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

Daily Comment Summaries - Personnel Onboard

Thu 23 May

Technical Staff On-board the Langseth

- Todd Jensvold L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Alan Thompson L-DEO OMO Marine Science Technician - Nav
- Shaun Shaver L-DEO OMO Marine Science Technician - Source
- Gilles Guerin L-DEO OMO Marine Science Technician - Obs
- Chris Abdouch Contract Personnel Marine Science Technician (NAV)
- Max Skalko Contract Personnel Marine Science Technician (Source)
- Edmond St. Amant Contract Personnel Marine Science Technician (Source)
- Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

- Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Thu May 23 2019 04:28p.m.

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Daily Science Report

5/23/2019

Page 5

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		3
5/23/2019			
Toolbox meeting to discuss source retrieval procedures and shift change. Toolbox meeting to discuss securing guns for transit. Toolbox meeting to discuss OBS recovery and security on deck.			

Daily Science Report

5/24/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Fri 24 May

We were recovering OBS's all day. We have six left to retrieve at the end of the Julian Day.

Daily Comment Summaries - Plan for Tomorrow

Fri 24 May

We anticipate picking up all of the OBS's by midnight local time. This is very weather dependent.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Recovery	DM_RC	Fri 24. May 00:00	Fri 24. May 00:37	0.617
Recover OBS 220				
Recovery	DM_RC	Fri 24. May 00:37	Fri 24. May 01:56	1.317
Recover OBS 219				
Recovery	DM_RC	Fri 24. May 01:56	Fri 24. May 03:06	1.167
Recover OBS 218				
Recovery	DM_RC	Fri 24. May 03:06	Fri 24. May 04:23	1.283
Recover OBS 217				
Recovery	DM_RC	Fri 24. May 04:23	Fri 24. May 06:46	2.383
Recover OBS 216				
Recovery	DM_RC	Fri 24. May 06:46	Fri 24. May 08:57	2.183
Recover OBS 215				
Recovery	DM_RC	Fri 24. May 08:57	Fri 24. May 11:05	2.133
Recover OBS 214				
Recovery	DM_RC	Fri 24. May 11:05	Fri 24. May 12:59	1.900
Recover OBS 213				
Recovery	DM_RC	Fri 24. May 12:59	Fri 24. May 14:53	1.900
Recover OBS 212				
Recovery	DM_RC	Fri 24. May 14:53	Fri 24. May 16:06	1.217
Recover OBS 211				
Recovery	DM_RC	Fri 24. May 16:06	Fri 24. May 17:40	1.567
Recover OBS 118				
Recovery	DM_RC	Fri 24. May 17:40	Fri 24. May 19:02	1.367
Recover OBS 210				

Daily Science Report

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Category	Code	Start	End	Duration
 Recovery	DM_RC	Fri 24. May 19:02	Fri 24. May 20:43	1.683
Recover OBS 209				
 Recovery	DM_RC	Fri 24. May 20:43	Fri 24. May 21:50	1.117
Recover OBS 208				
 Recovery	DM_RC	Fri 24. May 21:50	Fri 24. May 23:41	1.850
Recover OBS 207				
 Recovery	DM_RC	Fri 24. May 23:41	Fri 24. May 24:00	0.317
Recover OBS 206				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

24-May	Hours	% Percent
Demobilisation	24.000	100.000
Recovery	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	552.800	60.614
Deployment	96.567	10.588
Mob Ashore	144.000	15.789
Reconfiguration	76.917	8.434
Transit to Prospect	235.317	25.802
Acquisition	280.983	30.810
Prime Extended L/C	6.167	0.676
Prime Line Change	1.217	0.133
Production Prime	273.600	30.000
Demobilisation	39.117	4.289
Recovery	39.117	4.289
DownTime	2.217	0.243
Source	2.217	0.243
Chargeable Standby	9.333	1.023
Reconfiguration	3.233	0.355
Source Reconfig	3.233	0.355
Transit	3.350	0.367
Weather	2.750	0.302
Non-Chargeable StandBy	27.550	3.021
Weather	27.550	3.021
Total	912.000	

Daily Science Report

5/24/2019

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Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		

Comment
Emperor Sea Mounts

Production Listing (Accept km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accept km by interval) - Full Fold

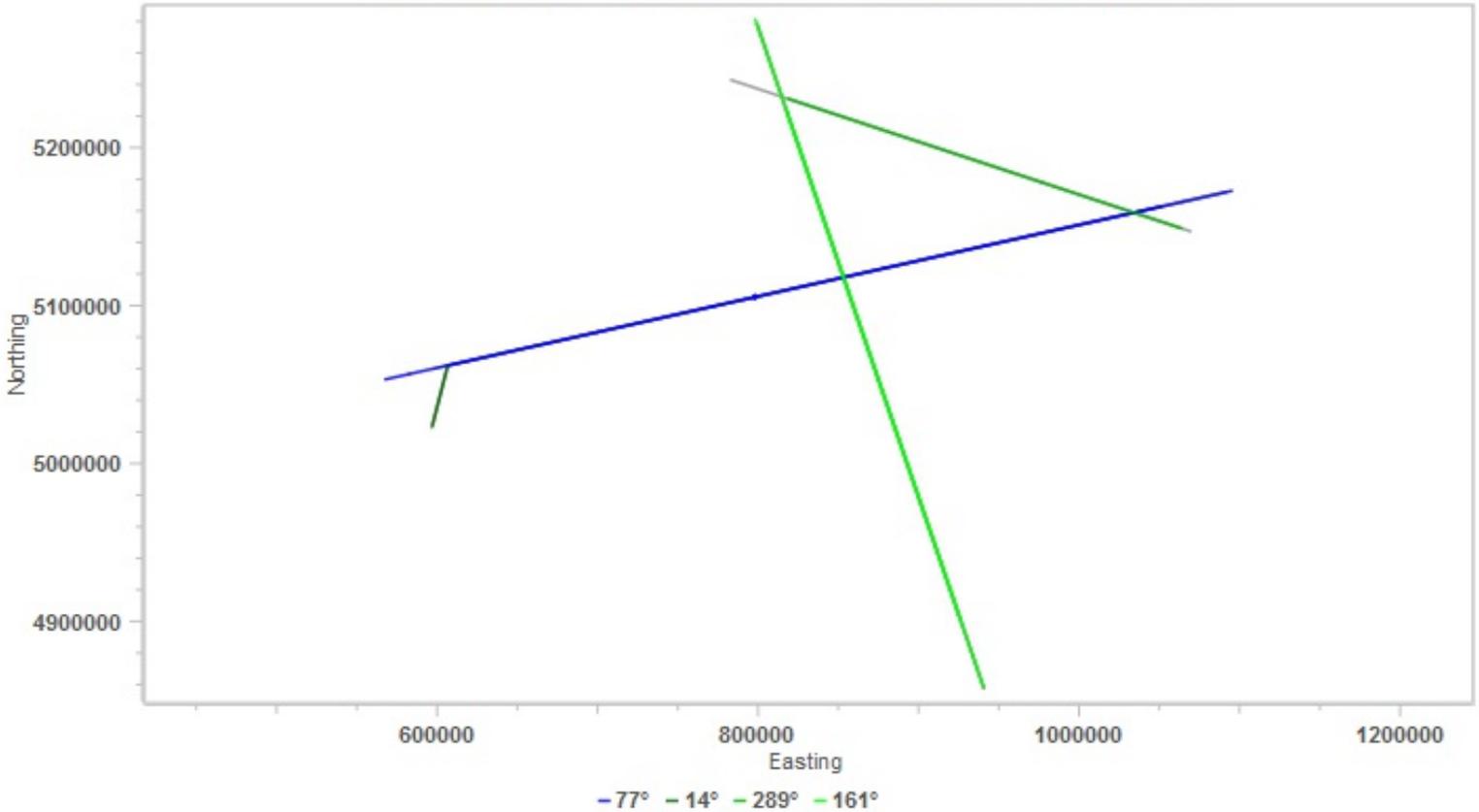
Accepted km	Day	Week	Month	Project
Prime	0.00	399.62	2076.62	2076.62
Combined	0.00	399.62	2076.62	2076.62

Daily Science Report

5/24/2019

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Emperor Sea Mounts: Acpt (4/17/2019 - 5/24/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 24 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

Daily Comment Summaries - Personnel Onboard

Fri 24 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Fri May 24 2019 02:42p.m.

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Daily Science Report

5/24/2019

Page 5

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		1
5/24/2019			
Toolbox to discuss rough weather and securing everything.			

Daily Science Report

5/25/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sat 25 May

We recovered the last OBS at 07:15 UTC. The deck was secured and the transit into Kodiak has begun.

Daily Comment Summaries - Plan for Tomorrow

Sat 25 May

Transit to Kodiak.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Code	Start	End	Duration
Recovery	DM_RC	Sat 25. May 00:00	Sat 25. May 00:56	0.933
Recover OBS 206				
Recovery	DM_RC	Sat 25. May 00:56	Sat 25. May 02:13	1.283
Recover OBS 205				
Recovery	DM_RC	Sat 25. May 02:13	Sat 25. May 03:34	1.350
Recover OBS 204				
Recovery	DM_RC	Sat 25. May 03:34	Sat 25. May 04:50	1.267
Recover OBS 203				
Recovery	DM_RC	Sat 25. May 04:50	Sat 25. May 06:06	1.267
Recover OBS 202				
Recovery	DM_RC	Sat 25. May 06:06	Sat 25. May 07:15	1.150
Recover OBS 201				
Transit From Prospect	DM_TF	Sat 25. May 07:15	Sat 25. May 24:00	16.750
Transit from work site to Kodiak				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

25-May	Hours	%Percent
Demobilisation	24.000	100.000
Recovery	7.250	30.208
Transit From Prospect	16.750	69.792
Day's Total	24.000	100.000

Daily Science Report

5/25/2019

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Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	552.800	59.060
Deployment	96.567	10.317
Mob Ashore	144.000	15.385
Reconfiguration	76.917	8.218
Transit to Prospect	235.317	25.141
Acquisition	280.983	30.020
Prime Extended L/C	6.167	0.659
Prime Line Change	1.217	0.130
Production Prime	273.600	29.231
Demobilisation	63.117	6.743
Recovery	46.367	4.954
Transit From Prospect	16.750	1.790
DownTime	2.217	0.237
Source	2.217	0.237
Chargeable Standby	9.333	0.997
Reconfiguration	3.233	0.345
Source Reconfig	3.233	0.345
Transit	3.350	0.358
Weather	2.750	0.294
Non-Chargeable StandBy	27.550	2.943
Weather	27.550	2.943
Total	936.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Daily Science Report

5/25/2019

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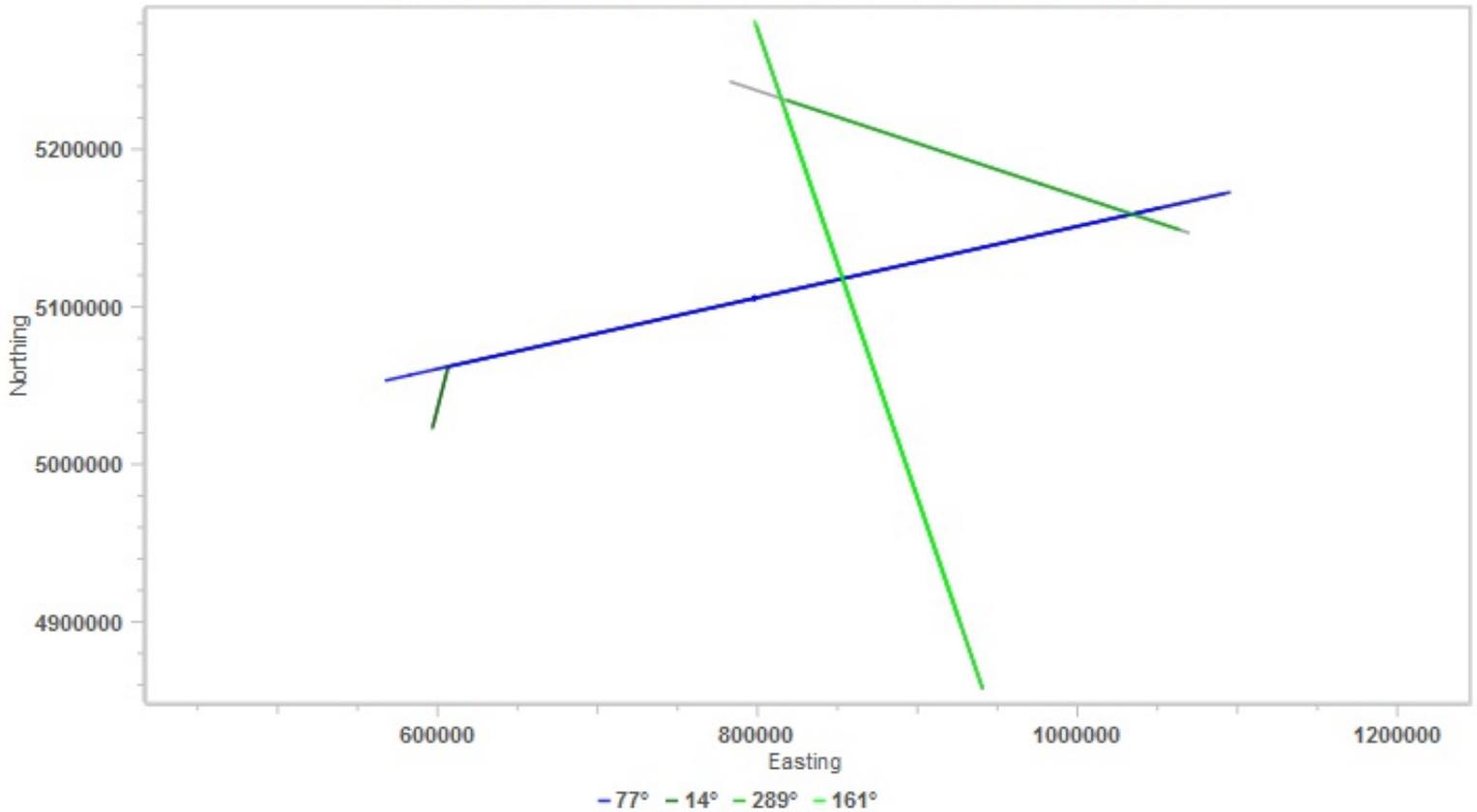
Production Listing (Accept km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accept km by interval) - Full Fold

Accepted km	Day	Week	Month	Project
Prime	0.00	399.62	2076.62	2076.62
Combined	0.00	399.62	2076.62	2076.62

Emperor Sea Mounts: Accept (4/17/2019 - 5/25/2019)MGL1902_ \$hillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 25 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

Daily Science Report

5/25/2019

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Daily Comment Summaries - Personnel Onboard

Sat 25 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO
Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		2
5/25/2019			
Toolbox to discuss rough weather retrieval of OBS's. Toolbox to discuss securing the deck.			

Daily Science Report

5/26/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sun 26 May

Transit to Kodiak from prospect.

Maintenance and preparations for next mission.

Daily Comment Summaries - Plan for Tomorrow

Sun 26 May

Transit to Kodiak from prospect.

Maintenance and preparations for next mission.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Transit From Prospect	DM_TF	Sun 26. May 00:00	Sun 26. May 24:00	24.000
Transit from work site to Kodiak				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

26-May	Hours	% Percent
Demobilisation	24.000	100.000
Transit From Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	552.800	57.583
Deployment	96.567	10.059
Mob Ashore	144.000	15.000
Reconfiguration	76.917	8.012
Transit to Prospect	235.317	24.512
Acquisition	280.983	29.269
Prime Extended L/C	6.167	0.642
Prime Line Change	1.217	0.127
Production Prime	273.600	28.500
Demobilisation	87.117	9.075
Recovery	46.367	4.830

Daily Science Report

5/26/2019

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Category	Hours	% Percent
Transit From Prospect	40.750	4.245
DownTime	2.217	0.231
Source	2.217	0.231
Chargeable Standby	9.333	0.972
Reconfiguration	3.233	0.337
Source Reconfig	3.233	0.337
Transit	3.350	0.349
Weather	2.750	0.286
Non-Chargeable StandBy	27.550	2.870
Weather	27.550	2.870
Total	960.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accpt km by interval) - Full Fold

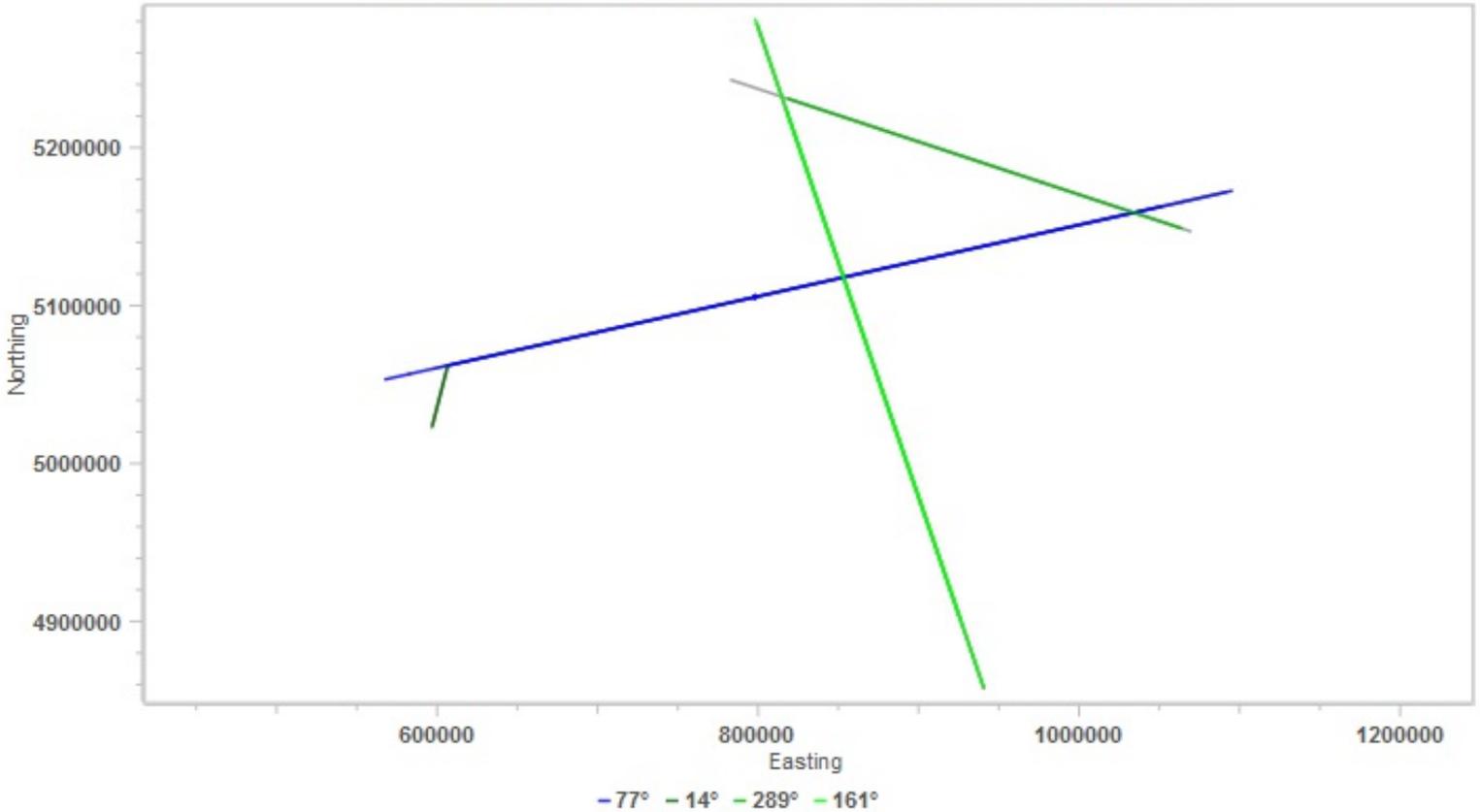
Accepted km	Day	Week	Month	Project
Prime	0.00	399.62	2076.62	2076.62
Combined	0.00	399.62	2076.62	2076.62

Daily Science Report

5/26/2019

Page 3

Emperor Sea Mounts: Acppt (4/17/2019 - 5/26/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 26 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

Daily Comment Summaries - Personnel Onboard

Sun 26 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Sun May 26 2019 02:34p.m.

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Daily Science Report

5/26/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
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Daily Science Report

5/27/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Mon 27 May

Transit to Kodiak from prospect.

Maintenance and preparations for next mission.

Deployed 2 argo units and 1 spoon drifter

Daily Comment Summaries - Plan for Tomorrow

Mon 27 May

Transit to Kodiak from prospect.

Maintenance and preparations for next mission.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Code	Start	End	Duration
 Transit From Prospect	DM_TF	Mon 27. May 00:00	Mon 27. May 24:00	24.000
Transit from work site to Kodiak				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Empor)

27-May	Hours	% Percent
Demobilisation	24.000	100.000
Transit From Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Hours	% Percent
Mobilisation	552.800	56.179
Deployment	96.567	9.814
Mob Ashore	144.000	14.634
Reconfiguration	76.917	7.817
Transit to Prospect	235.317	23.914
Acquisition	280.983	28.555
Prime Extended L/C	6.167	0.627
Prime Line Change	1.217	0.124
Production Prime	273.600	27.805

Daily Science Report

5/27/2019

Page 2

Category	Hours	% Percent
Demobilisation	111.117	11.292
Recovery	46.367	4.712
Transit From Prospect	64.750	6.580
DownTime	2.217	0.225
Source	2.217	0.225
Chargeable Standby	9.333	0.949
Reconfiguration	3.233	0.329
Source Reconfig	3.233	0.329
Transit	3.350	0.340
Weather	2.750	0.279
Non-Chargeable StandBy	27.550	2.800
Weather	27.550	2.800
Total	984.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accept km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accept km by interval) - Full Fold

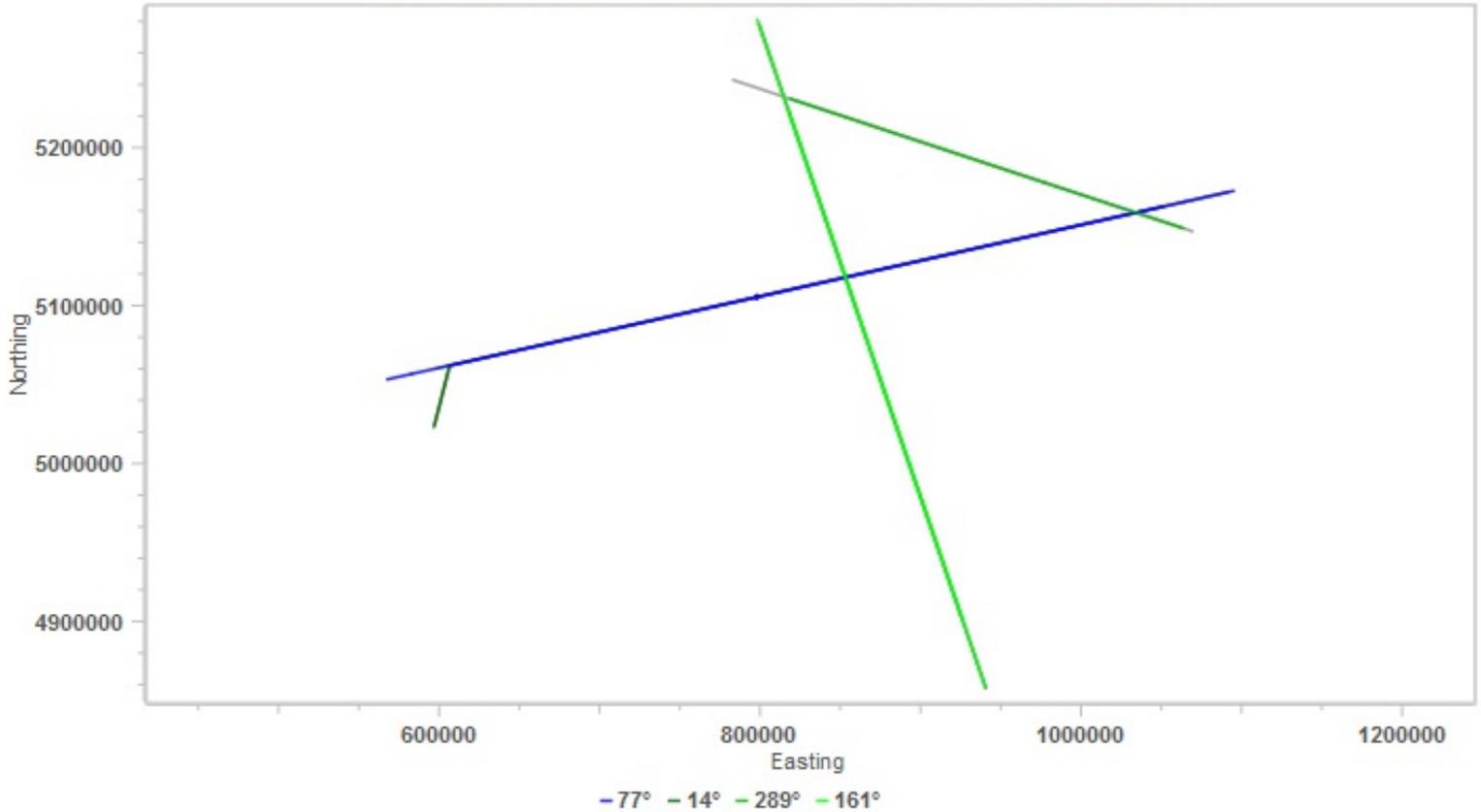
Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	2076.62	2076.62
Combined	0.00	0.00	2076.62	2076.62

Daily Science Report

5/27/2019

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Emperor Sea Mounts: Acpt (4/17/2019 - 5/27/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 27 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

Daily Comment Summaries - Personnel Onboard

Mon 27 May

Technical Staff On-board the Langseth

- Todd Jensvold L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Alan Thompson L-DEO OMO Marine Science Technician - Nav
- Shaun Shaver L-DEO OMO Marine Science Technician - Source
- Gilles Guerin L-DEO OMO Marine Science Technician - Obs
- Chris Abdouch Contract Personnel Marine Science Technician (NAV)
- Max Skalko Contract Personnel Marine Science Technician (Source)
- Edmond St. Amant Contract Personnel Marine Science Technician (Source)
- Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

- Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

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Daily Science Report

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Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
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Daily Science Report

5/28/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Tue 28 May

Transit to Kodiak from prospect.

Maintenance and preparations for next mission.

Deployed 1 Argo units and 1 spoon drifter

Daily Comment Summaries - Plan for Tomorrow

Tue 28 May

Transit to Kodiak from prospect.

Maintenance and preparations for next mission.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emeror)



Category	Code	Start	End	Duration
Transit From Prospect	DM_TF	Tue 28. May 00:00	Tue 28. May 24:00	24.000
Transit from work site to Kodiak				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emeror)

28-May	Hours	% Percent
Demobilisation	24.000	100.000
Transit From Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emeror)

Category	Hours	% Percent
Mobilisation	552.800	54.841
Deployment	96.567	9.580
Mob Ashore	144.000	14.286
Reconfiguration	76.917	7.631
Transit to Prospect	235.317	23.345
Acquisition	280.983	27.875
Prime Extended L/C	6.167	0.612
Prime Line Change	1.217	0.121

Daily Science Report

5/28/2019

Page 2

Category	Hours	% Percent
Production Prime	273.600	27.143
Demobilisation	135.117	13.404
Recovery	46.367	4.600
Transit From Prospect	88.750	8.805
DownTime	2.217	0.220
Source	2.217	0.220
Chargeable Standby	9.333	0.926
Reconfiguration	3.233	0.321
Source Reconfig	3.233	0.321
Transit	3.350	0.332
Weather	2.750	0.273
Non-Chargeable StandBy	27.550	2.733
Weather	27.550	2.733
Total	1008.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accept km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accept km by interval) - Full Fold

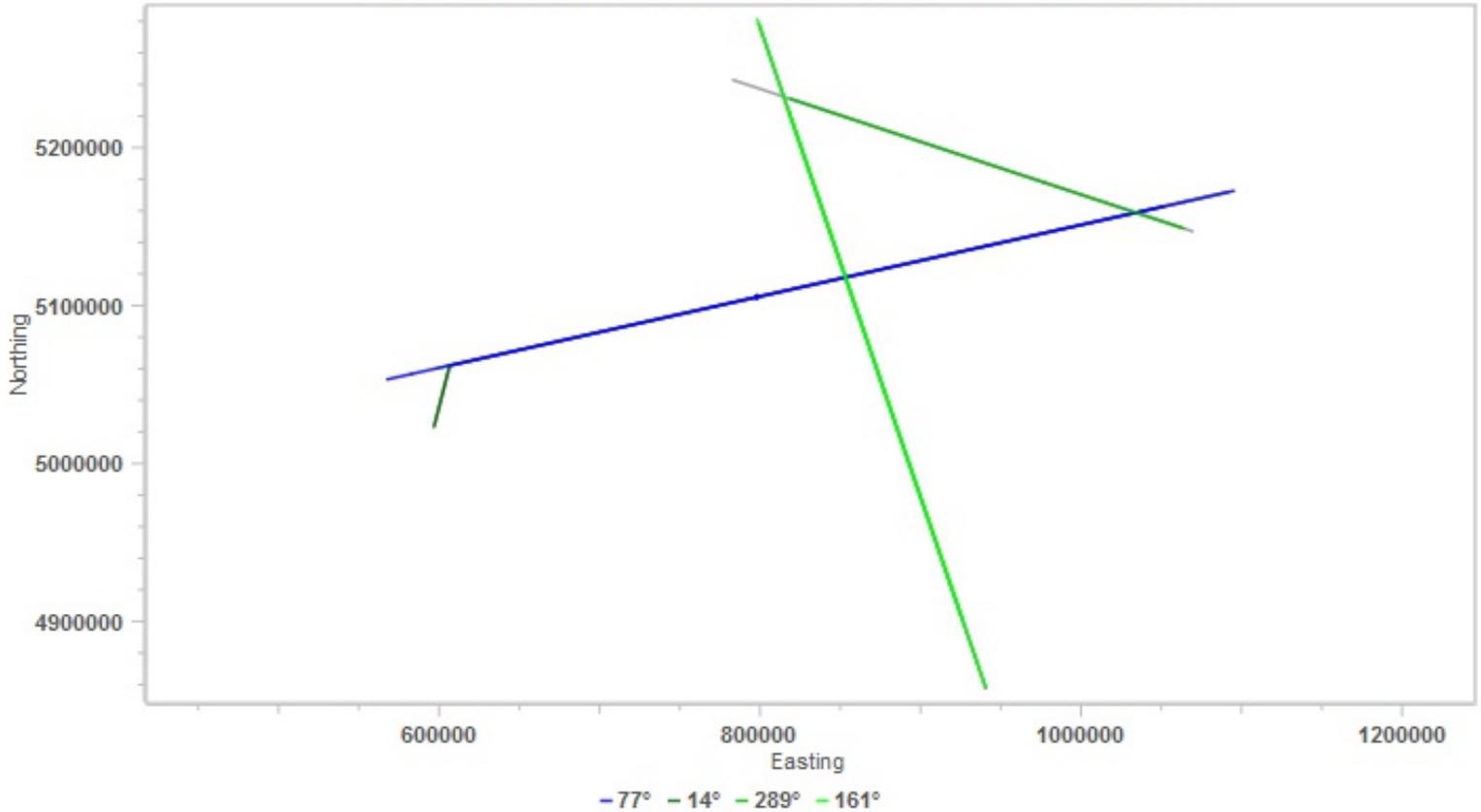
Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	2076.62	2076.62
Combined	0.00	0.00	2076.62	2076.62

Daily Science Report

5/28/2019

Page 3

Emperor Sea Mounts: Acppt (4/17/2019 - 5/28/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 28 May

Navigation:

No Major Issues to Report

Information Technology (IT):

Maintaining and replacing some camera's on deck.

Acquisition (OBS):

Rigging Partnerplast tail-buoy.

Towing and Handling (Source):

New legs and lift ropes on doors. Re-spliced wide tow ropes.

General Purpose Science:

No Major Issues to Report

Daily Comment Summaries - Personnel Onboard

Tue 28 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

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Daily Science Report

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Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
Daily Total Category	Code		Count
 Toolbox Meetings	Mtgs_Tbox		1
5/28/2019			
Toolbox meeting to discuss moving OBS's for gangway placement.			

Daily Science Report

5/29/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Wed 29 May

Transit to Kodiak from prospect.

Deployed the last Argo and Spoon-drifter floats.

Crew Safety Meeting today.

Daily Comment Summaries - Plan for Tomorrow

Wed 29 May

Transit to Kodiak from prospect.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Empor)



Category	Code	Start	End	Duration
Transit From Prospect	DM_TF	Wed 29. May 00:00	Wed 29. May 24:00	24.000
Transit to Kodiak from prospect.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Empor)

29-May	Hours	% Percent
Demobilisation	24.000	100.000
Transit From Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Empor)

Category	Hours	% Percent
Mobilisation	552.800	53.566
Deployment	96.567	9.357
Mob Ashore	144.000	13.953
Reconfiguration	76.917	7.453
Transit to Prospect	235.317	22.802
Acquisition	280.983	27.227
Prime Extended L/C	6.167	0.598
Prime Line Change	1.217	0.118
Production Prime	273.600	26.512

Daily Science Report

5/29/2019

Page 2

Category	Hours	%Percent
Demobilisation	159.117	15.418
Recovery	46.367	4.493
Transit From Prospect	112.750	10.925
DownTime	2.217	0.215
Source	2.217	0.215
Chargeable Standby	9.333	0.904
Reconfiguration	3.233	0.313
Source Reconfig	3.233	0.313
Transit	3.350	0.325
Weather	2.750	0.266
Non-Chargeable StandBy	27.550	2.670
Weather	27.550	2.670
Total	1032.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accept km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accept km by interval) - Full Fold

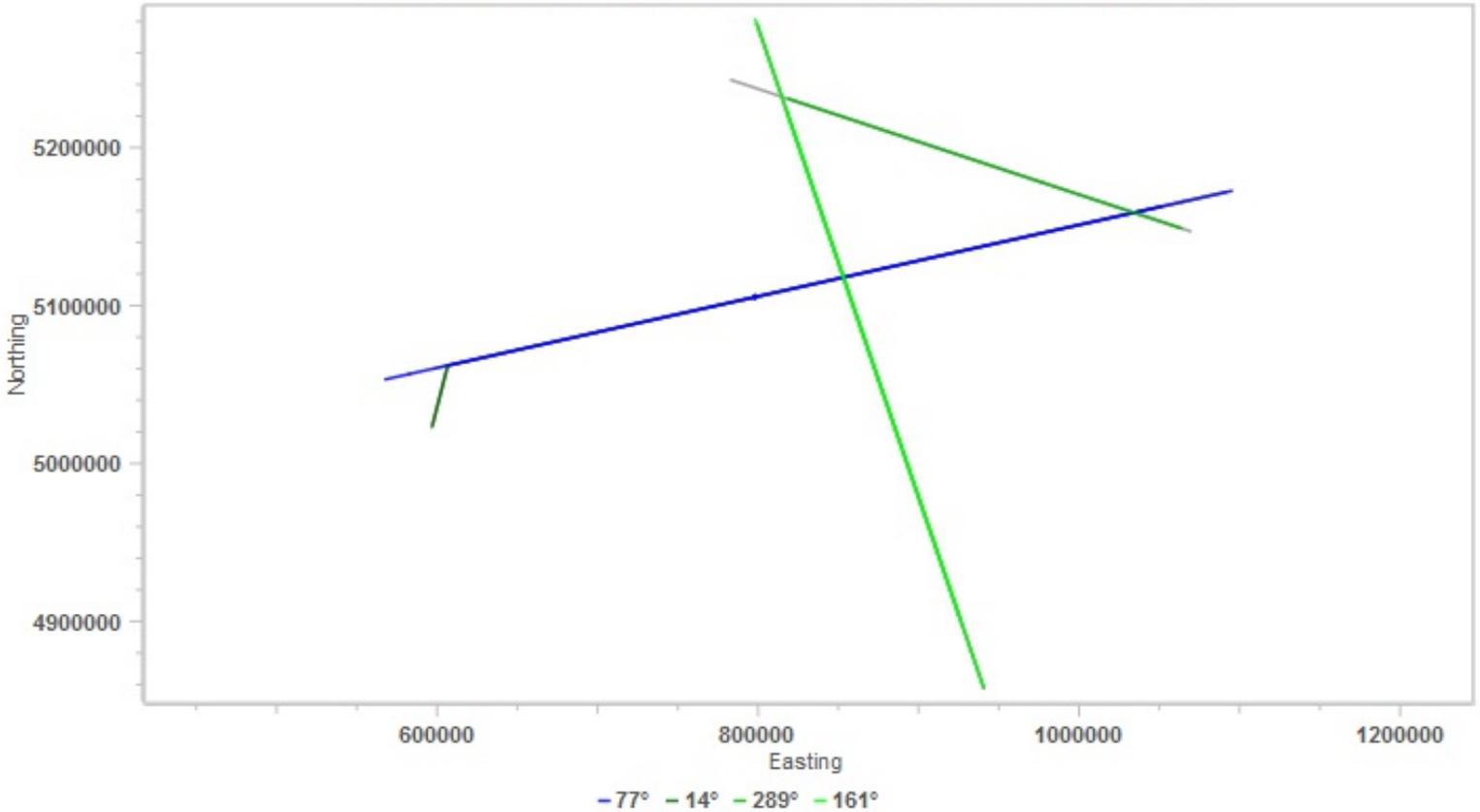
Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	2076.62	2076.62
Combined	0.00	0.00	2076.62	2076.62

Daily Science Report

5/29/2019

Page 3

Emperor Sea Mounts: Acppt (4/17/2019 - 5/29/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 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

Daily Comment Summaries - Personnel Onboard

Wed 29 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

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Daily Science Report

5/29/2019

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Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
 Full Safety Meeting	Mtgs_FS	Wed 29. May 19:20	Wed 29. May 19:50
HSE - Full Safety Meeting			

Daily Total Category	Code	Count
 Toolbox Meetings	Mtgs_Tbox	1
5/29/2019		
Toolbox Meeting to discuss Vane deployment and retrieval. New JSA and Procedure are written for these.		

Daily Science Report

5/30/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Thu 30 May

Transit to Kodiak from prospect.

Daily Comment Summaries - Plan for Tomorrow

Thu 30 May

Plan to deploy vanes to test the wide tow winches and vanes,

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Code	Start	End	Duration
Transit From Prospect	DM_TF	Thu 30. May 00:00	Thu 30. May 24:00	24.000
Transit from work site to Kodiak				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

30-May	Hours	% Percent
Demobilisation	24.000	100.000
Transit From Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	552.800	52.348
Deployment	96.567	9.145
Mob Ashore	144.000	13.636
Reconfiguration	76.917	7.284
Transit to Prospect	235.317	22.284
Acquisition	280.983	26.608
Prime Extended L/C	6.167	0.584
Prime Line Change	1.217	0.115
Production Prime	273.600	25.909
Demobilisation	183.117	17.341
Recovery	46.367	4.391
Transit From Prospect	136.750	12.950

Daily Science Report

5/30/2019

Page 2

Category	Hours	% Percent
DownTime	2.217	0.210
Source	2.217	0.210
Chargeable Standby	9.333	0.884
Reconfiguration	3.233	0.306
Source Reconfig	3.233	0.306
Transit	3.350	0.317
Weather	2.750	0.260
Non-Chargeable StandBy	27.550	2.609
Weather	27.550	2.609
Total	1056.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Acpt km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Acpt km by interval) - Full Fold

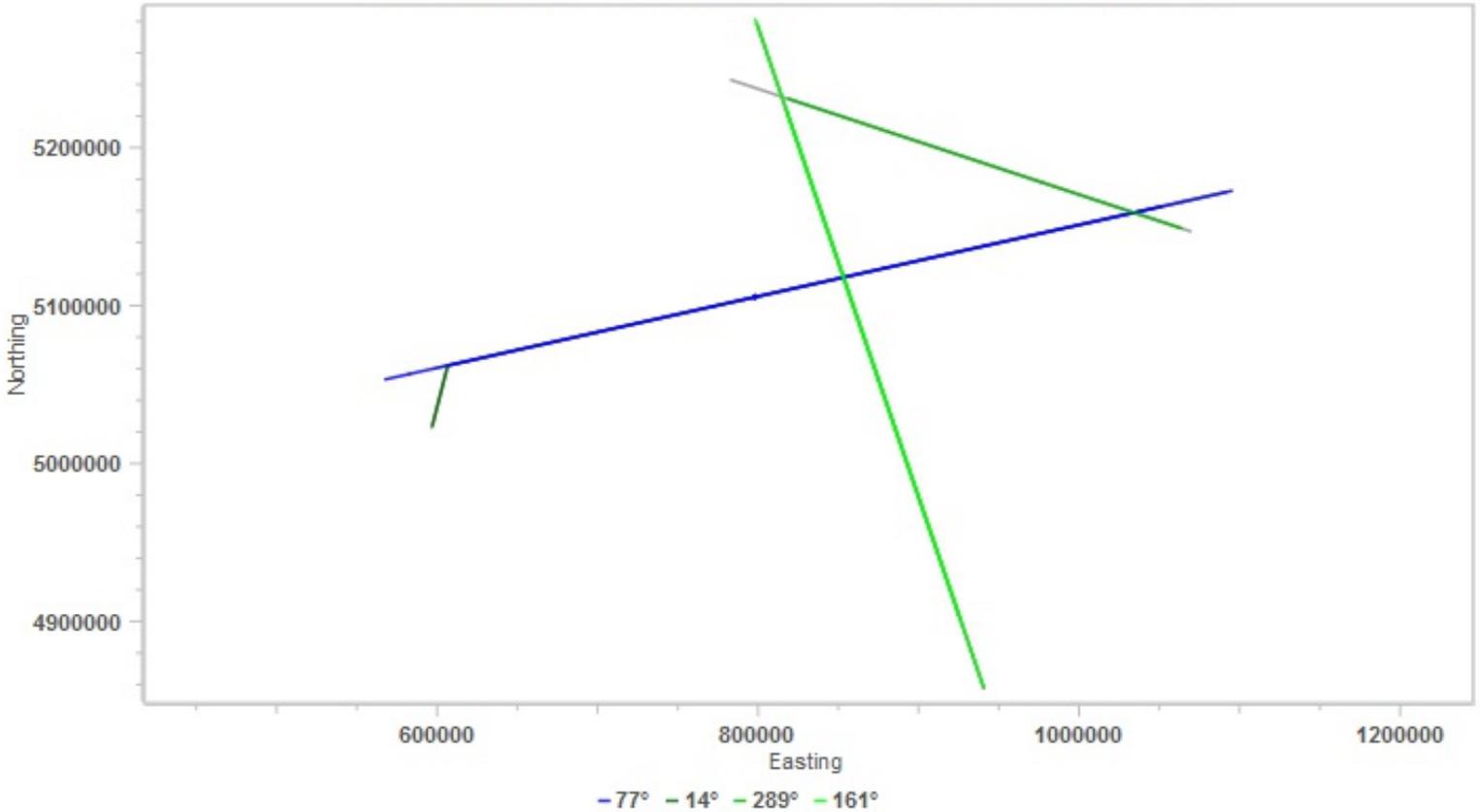
Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	2076.62	2076.62
Combined	0.00	0.00	2076.62	2076.62

Daily Science Report

5/30/2019

Page 3

Emperor Sea Mounts: Acpt (4/17/2019 - 5/30/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 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

Daily Comment Summaries - Personnel Onboard

Thu 30 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Fri May 31 2019 05:06a.m.

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Daily Science Report

5/30/2019

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Andrea Zavaia RPS PAM / PSO
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Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
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Daily Science Report

5/31/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Fri 31 May

Continued transit from prospect to Kodiak.

We deployed the port vane and tested the wide tow winch. We also marked our wide tow rope to 450 meters.

Daily Comment Summaries - Plan for Tomorrow

Fri 31 May

Continued transit from prospect to Kodiak.

We will deploy the starboard vane and test the starboard wide tow winch tomorrow morning.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Code	Start	End	Duration
 Transit From Prospect	DM_TF	Fri 31. May 00:00	Fri 31. May 24:00	24.000
Continued transit from prospect to Kodiak.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

31-May	Hours	% Percent
Demobilisation	24.000	100.000
Transit From Prospect	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Mobilisation	552.800	51.185
Deployment	96.567	8.941
Mob Ashore	144.000	13.333
Reconfiguration	76.917	7.122
Transit to Prospect	235.317	21.789
Acquisition	280.983	26.017
Prime Extended L/C	6.167	0.571
Prime Line Change	1.217	0.113

Daily Science Report

5/31/2019

Page 2

Category	Hours	% Percent
Production Prime	273.600	25.333
Demobilisation	207.117	19.177
Recovery	46.367	4.293
Transit From Prospect	160.750	14.884
DownTime	2.217	0.205
Source	2.217	0.205
Chargeable Standby	9.333	0.864
Reconfiguration	3.233	0.299
Source Reconfig	3.233	0.299
Transit	3.350	0.310
Weather	2.750	0.255
Non-Chargeable StandBy	27.550	2.551
Weather	27.550	2.551
Total	1080.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accept km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accept km by interval) - Full Fold

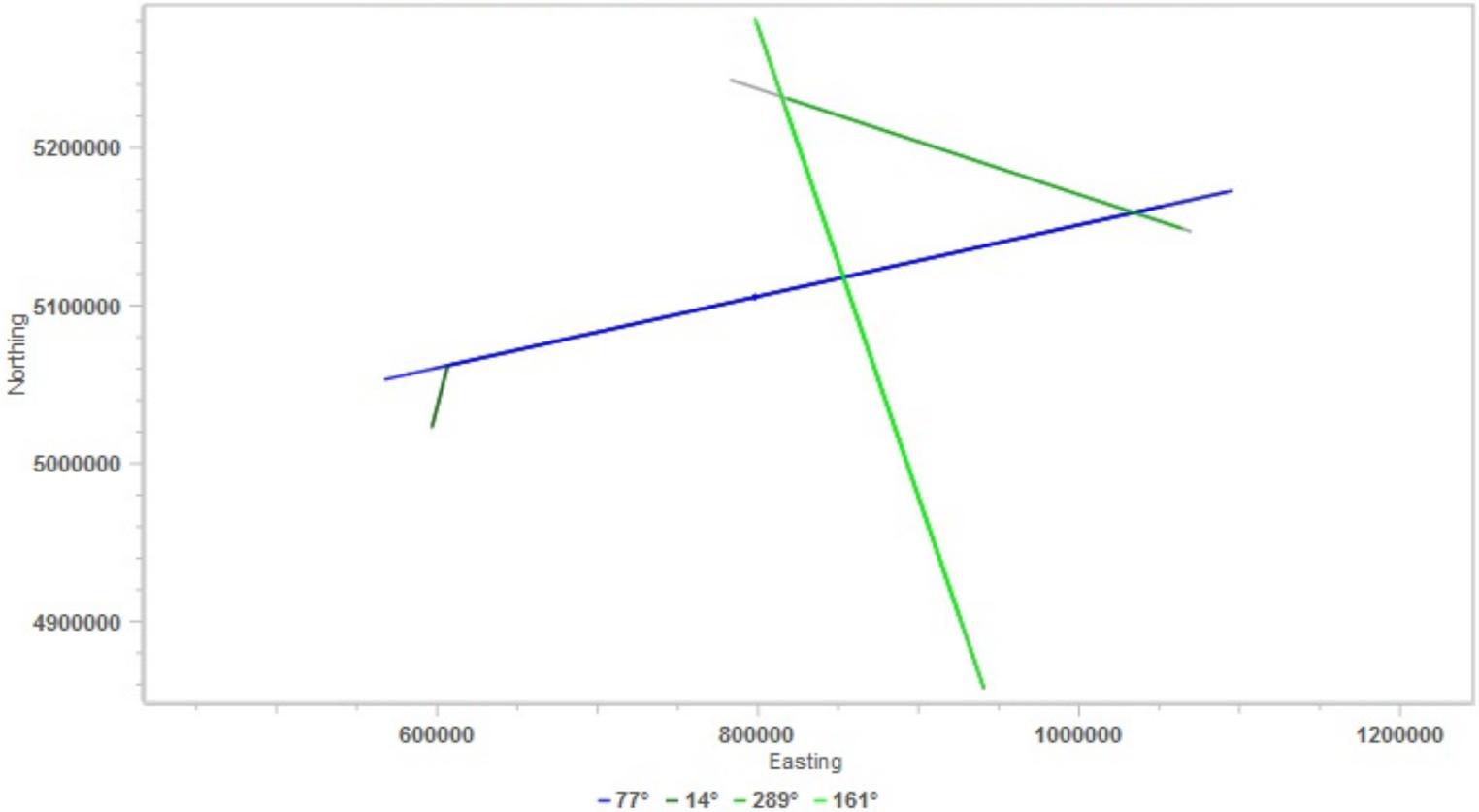
Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	2076.62	2076.62
Combined	0.00	0.00	2076.62	2076.62

Daily Science Report

5/31/2019

Page 3

Emperor Sea Mounts: Acpt (4/17/2019 - 5/31/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 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

Daily Comment Summaries - Personnel Onboard

Fri 31 May

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Alan Thompson L-DEO OMO Marine Science Technician - Nav
Shaun Shaver L-DEO OMO Marine Science Technician - Source
Gilles Guerin L-DEO OMO Marine Science Technician - Obs
Chris Abdouch Contract Personnel Marine Science Technician (NAV)
Max Skalko Contract Personnel Marine Science Technician (Source)
Edmond St. Amant Contract Personnel Marine Science Technician (Source)
Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Fri May 31 2019 01:59p.m.

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Daily Science Report

5/31/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
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Daily Science Report

6/1/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sat 01 Jun

Deployed starboard vane during transit to inspect legs, rigging, tow rope and wide tow winch. All is ok.

Arrived into port at Kodiak USCG Base at 23:15 UTC.

Taking provisions as soon as we were secured to the pier.

Daily Comment Summaries - Plan for Tomorrow

Sat 01 Jun

Port call in Kodiak. Demobilization details. Prep for crew change and mission change.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Transit From Prospect	DM_TF	Sat 1. Jun 00:00	Sat 1. Jun 23:15	23.250
Transit to Kodiak from prospect				
Demob Ashore	DM_DA	Sat 1. Jun 23:15	Sat 1. Jun 24:00	0.750
Dockside at Kodiak USCG Base.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

1-Jun	Hours	% Percent
Demobilisation	24.000	100.000
Demob Ashore	0.750	3.125
Transit From Prospect	23.250	96.875
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Demobilisation	231.117	20.934
Demob Ashore	0.750	0.068
Recovery	46.367	4.200
Transit From Prospect	184.000	16.667
Mobilisation	552.800	50.072
Deployment	96.567	8.747
Mob Ashore	144.000	13.043

Daily Science Report

6/1/2019

Page 2

Category	Hours	% Percent
Reconfiguration	76.917	6.967
Transit to Prospect	235.317	21.315
Acquisition	280.983	25.451
Prime Extended L/C	6.167	0.559
Prime Line Change	1.217	0.110
Production Prime	273.600	24.783
DownTime	2.217	0.201
Source	2.217	0.201
Chargeable Standby	9.333	0.845
Reconfiguration	3.233	0.293
Source Reconfig	3.233	0.293
Transit	3.350	0.303
Weather	2.750	0.249
Non-Chargeable StandBy	27.550	2.495
Weather	27.550	2.495
Total	1104.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accpt km by interval) - Full Fold

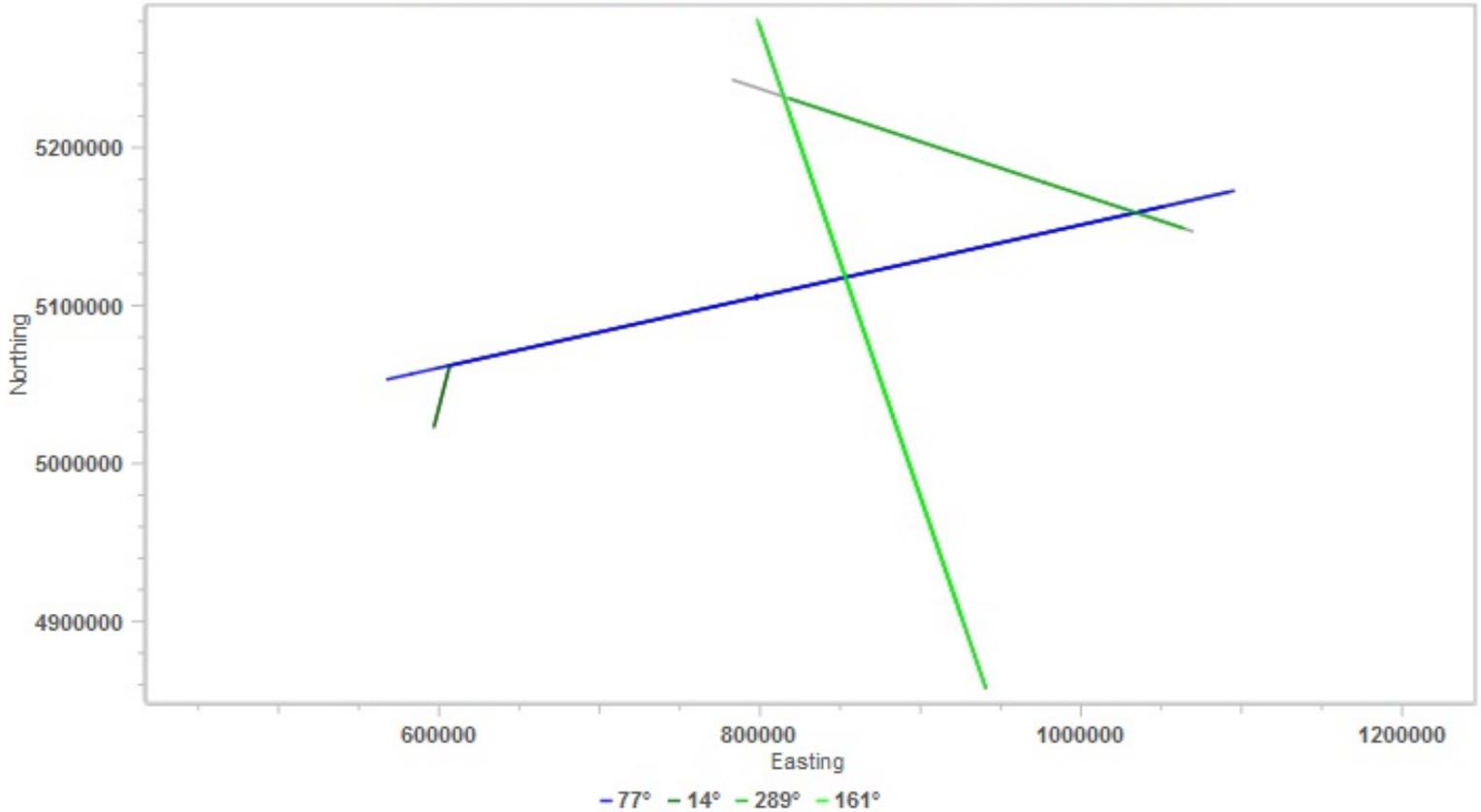
Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	2076.62
Combined	0.00	0.00	0.00	2076.62

Daily Science Report

6/1/2019

Page 3

Emperor Sea Mounts: Acppt (4/17/2019 - 6/1/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 01 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

Daily Comment Summaries - Personnel Onboard

Sat 01 Jun

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Sat Jun 1 2019 02:38p.m.

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Daily Science Report

6/1/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
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Daily Science Report

6/2/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Sun 02 Jun

Science party departed the vessel.
Gravity tie performed.

Daily Comment Summaries - Plan for Tomorrow

Sun 02 Jun

Port call in Kodiak. Demobilization details. Prep for crew change and mission change.

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Demob Ashore	DM_DA	Sun 2. Jun 00:00	Sun 2. Jun 24:00	24.000
Dockside at Kodiak USCG Base.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

2-Jun	Hours	% Percent
Demobilisation	24.000	100.000
Demob Ashore	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Demobilisation	255.117	22.617
Demob Ashore	24.750	2.194
Recovery	46.367	4.111
Transit From Prospect	184.000	16.312
Mobilisation	552.800	49.007
Deployment	96.567	8.561
Mob Ashore	144.000	12.766
Reconfiguration	76.917	6.819
Transit to Prospect	235.317	20.861
Acquisition	280.983	24.910
Prime Extended L/C	6.167	0.547
Prime Line Change	1.217	0.108
Production Prime	273.600	24.255

Daily Science Report

6/2/2019

Page 2

Category	Hours	% Percent
DownTime	2.217	0.197
Source	2.217	0.197
Chargeable Standby	9.333	0.827
Reconfiguration	3.233	0.287
Source Reconfig	3.233	0.287
Transit	3.350	0.297
Weather	2.750	0.244
Non-Chargeable StandBy	27.550	2.442
Weather	27.550	2.442
Total	1128.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Acpt km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Acpt km by interval) - Full Fold

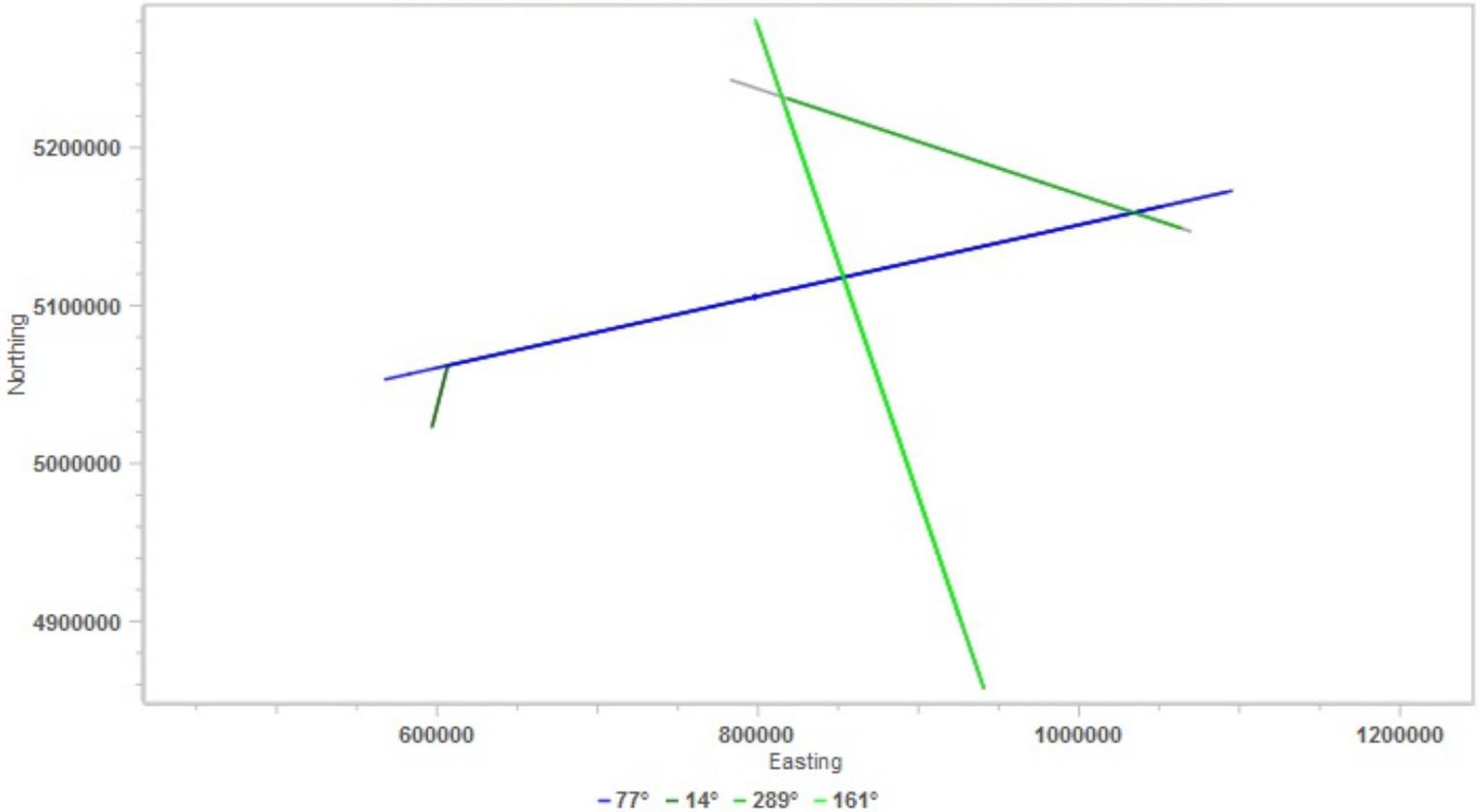
Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	2076.62
Combined	0.00	0.00	0.00	2076.62

Daily Science Report

6/2/2019

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Emperor Sea Mounts: Accpt (4/17/2019 - 6/2/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 02 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

Daily Comment Summaries - Personnel Onboard

Sun 02 Jun

Technical Staff On-board the Langseth

Todd Jensvold L-DEO OMO Chief Science Officer

Josh Kasinger L-DEO OMO Chief Source Mechanic

Alan Thompson L-DEO OMO Marine Science Technician - Nav

Shaun Shaver L-DEO OMO Marine Science Technician - Source

Gilles Guerin L-DEO OMO Marine Science Technician - Obs

Chris Abdouch Contract Personnel Marine Science Technician (NAV)

Max Skalko Contract Personnel Marine Science Technician (Source)

Edmond St. Amant Contract Personnel Marine Science Technician (Source)

Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Mon Jun 3 2019 12:54p.m.

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Daily Science Report

6/2/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
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Daily Science Report

6/3/2019

Page 1

Client:	United States National Science Foundation	Contractor:	Lamont-Doherty Earth Observatory
Job No:	MGL1902	Job No:	MGL1902
Block:	Emperor Sea Mounts	Vessel:	Marcus G Langseth
Client Contact:	Donna Shillington	Supervisor:	Sean Higgins
Consultancy:		Party Chiefs:	Sean Higgins
Job No:		Client Reps:	Donna Shillington

Daily Comment Summaries - Daily Summary

Mon 03 Jun

Dockside at Kodiak USCG Base. Continue demobilization.

We discovered an air-leak inside the bell housing on the #2 hose bundle. Preparing to change the bundle before sailing.

This completes the MGL-1902 Emperor Sea Mounts.

Thanks Donna Shillington!

Daily Comment Summaries - Plan for Tomorrow

Mon 03 Jun

Timing Diary (Marcus G Langseth, MGL1902_Shillington_Emperor)



Category	Code	Start	End	Duration
Demob Ashore	DM_DA	Mon 3. Jun 00:00	Mon 3. Jun 24:00	24.000
Dockside at Kodiak USCG Base.				

Timing Day By Day (Marcus G Langseth, MGL1902_Shillington_Emperor)

3-Jun	Hours	% Percent
Demobilisation	24.000	100.000
Demob Ashore	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MGL1902_Shillington_Emperor)

Category	Hours	% Percent
Demobilisation	279.117	24.229
Demob Ashore	48.750	4.232
Recovery	46.367	4.025
Transit From Prospect	184.000	15.972
Mobilisation	552.800	47.986
Deployment	96.567	8.383
Mob Ashore	144.000	12.500
Reconfiguration	76.917	6.677
Transit to Prospect	235.317	20.427

Daily Science Report

6/3/2019

Page 2

Category	Hours	% Percent
Acquisition	280.983	24.391
Prime Extended L/C	6.167	0.535
Prime Line Change	1.217	0.106
Production Prime	273.600	23.750
DownTime	2.217	0.192
Source	2.217	0.192
Chargeable Standby	9.333	0.810
Reconfiguration	3.233	0.281
Source Reconfig	3.233	0.281
Transit	3.350	0.291
Weather	2.750	0.239
Non-Chargeable StandBy	27.550	2.391
Weather	27.550	2.391
Total	1152.000	

Basic Project Details

MGL1902_Shillington_Emperor					
General Details					
Record length:	26000 ms	Sample rate:	2 ms	Shotpoint interval:	62.5 m
CoS to CNG:	208 m	Fold Coverage:	252		
Cable Details					
No of Cables:	1	Chans Per Cable:	1188	Front Depth:	12 m
Tail Depth:	12 m	Length:	14850 m	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12 m
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	18 m		
Comment					
Emperor Sea Mounts					

Production Listing (Accpt km) - Full Fold

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accpt km by interval) - Full Fold

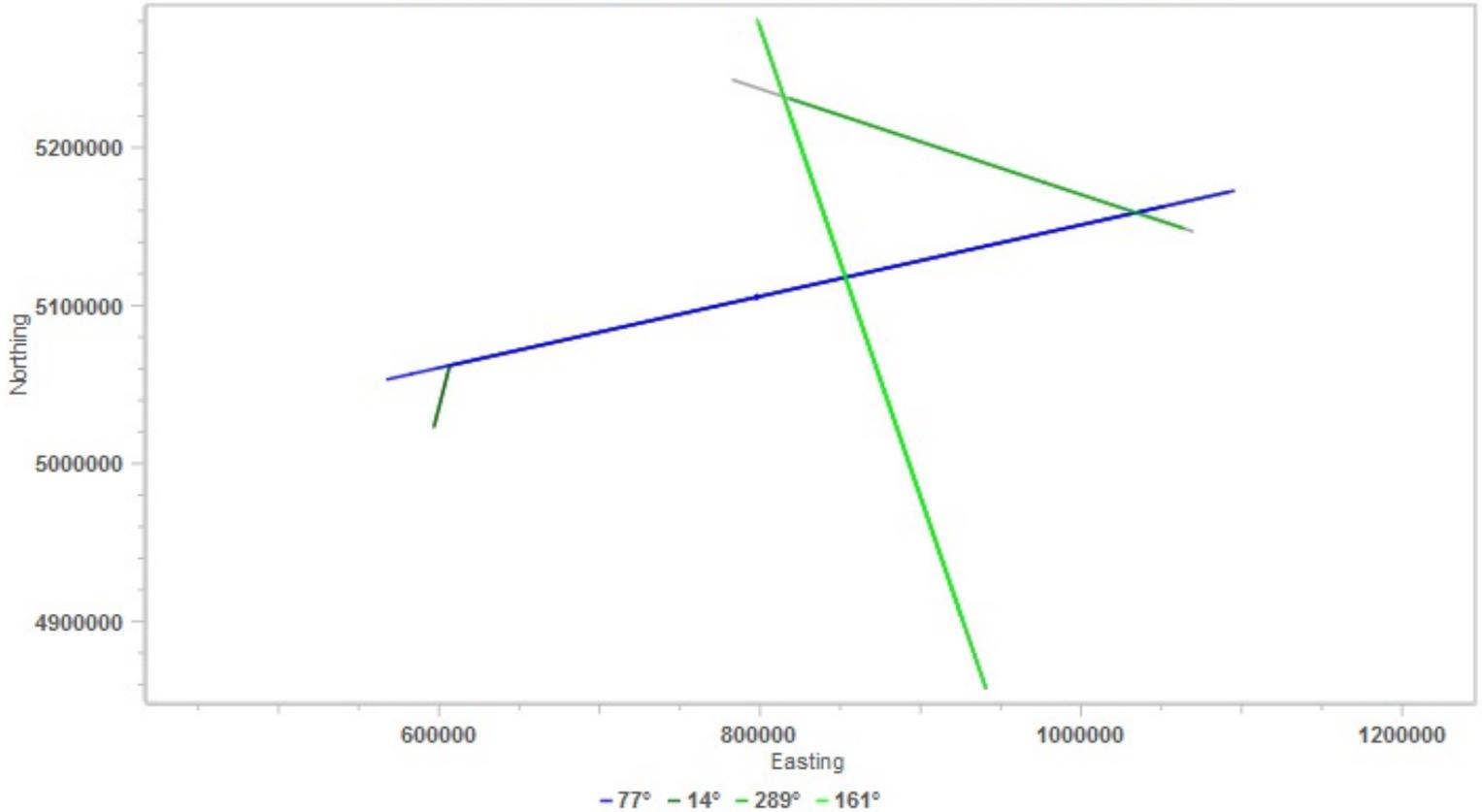
Accepted km	Day	Week	Month	Project
Prime	0.00	0.00	0.00	2076.62
Combined	0.00	0.00	0.00	2076.62

Daily Science Report

6/3/2019

Page 3

Emperor Sea Mounts: Accpt (4/17/2019 - 6/3/2019)MGL1902_Shillington_Emperor



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 03 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

Daily Comment Summaries - Personnel Onboard

Mon 03 Jun

Technical Staff On-board the Langseth

- Todd Jensvold L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Alan Thompson L-DEO OMO Marine Science Technician - Nav
- Shaun Shaver L-DEO OMO Marine Science Technician - Source
- Gilles Guerin L-DEO OMO Marine Science Technician - Obs
- Chris Abdouch Contract Personnel Marine Science Technician (NAV)
- Max Skalko Contract Personnel Marine Science Technician (Source)
- Edmond St. Amant Contract Personnel Marine Science Technician (Source)
- Brian Agee Contract Personnel Marine Science Technician (Source)

PSO Staff On-board the Langseth

- Amanda Dubuque RPS Lead PSO

(UTC 00:00) UTC - Universal Time Coordinated

Generated on Mon Jun 3 2019 01:01p.m.

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Daily Science Report

6/3/2019

Page 4

Andrea Zavaia RPS PAM / PSO
Ana Hernandez RPS PSO
Veronica Gonzales RPS PSO
Karla Medina RPS PSO

Science Party On-board the Langseth

Shillington, Donna LDEO PI
Watts, Anthony Oxford PI
Dunn, Robert University of Hawaii PI
Boston, Brian - LDEO
Cortes-Rivas, Valeria - University of Chil
Fortin, Will - LDEO
Tsekhmistrenko, Maria - Oxford
Harper, Hugh - Scripps
Lei, Mei - University of Houston
Nyugen, Luan - Rice University
Leebum, Jeff - PSU
Filbrandt, Christian - Geomar OBS Tech
Gomez Laura - Geomar OBS Tech
Schroeder, Patrick - Geomar OBS Tech
Kane, Timothy WHOI OBS tech

HSE Events Diary (Marcus G Langseth)

Category	Code	Start	End
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