

8/2/2024

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Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Fri 02 Aug

Welcome onboard for MGL 2408.
 It was a very busy day of mobilization with a lot of tasks ongoing.
 Bunkering was completed
 Stores were loaded
 The overboarding blocks on the A-frame were worked on and completed
 The two OBIC rental containers were unloaded and sent off.
 The shore crane arrived, the winch was loaded, the flat racks were lifted on to the vessel and the 10ft container was lifted off the main deck.
 Gun array work was ongoing: rebuilding solenoids, hanging guns, checking ropes
 Main lab work ongoing: updating licenses, configuring systems, starting up the cruise IT network
 The PSO's arrived today and they are settling in. They were unpacking, moving in to their work spaces and testing equipment.
 Most of the Sci team has arrived with only one other member outstanding. They will arrive on the 3rd.
 Due to the bunkering, stores and shore crane we are a little farther behind than we would like with OBS mobilization.

Daily Comment Summaries - Plan for Tomorrow

Fri 02 Aug

Continue with mobilisation.
 Lift remaining OBS gear onboard.
 Vessel safety orientation.
 Start of cruise operations meeting.
 Continue work on gun arrays.
 Configure seismic systems.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Mob Ashore	MB_MA	24.000
Mobilizing Ashore - Reykjavik, Iceland				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

2-Aug	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, MCS 15000m 50m)

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

Basic Project Details

MCS 15000m 50m

General Details

MCS 15000m 50m					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Acpt Main km) - Prime: Full Fold, Infill: Unknown

Source Only, MCS 15000m 50m

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

Production Listing (Acpt Main km) - Prime: Full Fold, Infill: Unknown

Source Only, MCS 15000m 50m

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

Production Totals (Acpt Main km) - Prime: Full Fold, Infill: Unknown

Source Only, MCS 15000m 50m

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

Iceland: Accpt

8/2/2024 - 8/2/2024

MCS 15000m 50m, OBS_Deployment, Source Only

Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 02 Aug

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 02 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Brian Agee L-DEO OMO Source Mechanic
Gilles Guerin - L-DEO OMO Observer
Riley Lopez - L-DEO OMO Observer
Koray Ergun.- L-DEO OMO Navigator
Malcolm Moody - Contract Source Mechanic
Jason Rodham - Contract Source Mechanic
Leon Da Silva Souza - Contract Source Mechanic
Tomasz Kranz - Contract Source Mechanic

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PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth

Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
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HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
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8/3/2024

Page 1

Client: Lamont-Doherty Earth Observatory
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Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sat 03 Aug

Continued with mobilization.
 Completed the lifts for the OBS gear and moving of equipment on-board the vessel.
 OBS team continued building instruments with 30+ built at end of day.
 Lab space moving in and securing continues.
 A vessel safety induction was done for the majority of the new joiners at 8am. There are 4-5 team members that will do the induction tomorrow the 4th.
 The start of cruise operations meeting was held at 1300 followed by a call to the LDEO office of marine operations at 1400.
 Environmental permits were reviewed.
 At end of day all team members have joined and are getting ready to sail tomorrow, the 4th.

Daily Comment Summaries - Plan for Tomorrow

Sat 03 Aug

Finish securing the gear on deck and in the lab spaces.
 Immigration to arrive at 8am.
 Vessel sails for the work area at 10am.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Mob Ashore	MB_MA	24.000
Mobilizing Ashore - Reykjavik, Iceland				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

3-Aug	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, MCS 15000m 50m)

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

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m

MCS 15000m 50m					
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Production Listing (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Production Totals (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Iceland: Acpt
8/2/2024 - 8/3/2024
MCS 15000m 50m, Source Only

Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 03 Aug

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 03 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth

Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)



Start	End	Category	Code
08:00		Vessel HSE meeting	Mtgs_VHse
14:10	15:10	Start-up Meeting	Mtgs_StUp
HSE - Start-up Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Meetings	Mtgs	2	2	2	2	1.000	

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Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Start-up Meeting	StUp	1	1	1	1	1.000	
 Vessel HSE meeting	VHse	1	1	1	1		

8/4/2024

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Client: Lamont-Doherty Earth Observatory
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Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sun 04 Aug

At 0800 immigration arrived to clear the crew out.
 There was a few last minute lifts and the teams were checking the spaces to ensure everything was secured.
 At ~1000 the vessel tossed the lines and headed to sea.
 During the start of cruise ops meeting we decided to wait until 1000 meter water depth to do the casts.
 At around 2130 the crew started to do the last minute preps to perform 5 casts to test the OBS acoustics.
 The seas were a bit choppy so several tool box talks were held along with modifications to the equipment, slings, weights, procedures etc.

Daily Comment Summaries - Plan for Tomorrow

Sun 04 Aug

Finish the OBS acoustic test cast and transit for the survey area.
 Start to Deploy OBS

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	10:00	Mob Ashore	MB_MA	10.000
Mobilizing Ashore - Reykjavik, Iceland				
10:00	22:20	Transit to Prospect	MB_TT	12.333
In transit to prospect, for mobilizing deployment.				
22:20	24:00	Tests	SB_TE	1.667
Test Cast for Acoustics				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

4-Aug	Hours	% Percent
Chargeable Standby	1.667	6.944
Tests	1.667	6.944
Mobilisation	22.333	93.056
Mob Ashore	10.000	41.667
Transit to Prospect	12.333	51.389
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m)

Category	Hours	% Percent
Mobilisation	70.333	97.685
Mob Ashore	58.000	80.556
Transit to Prospect	12.333	17.130
Chargeable Standby	1.667	2.315
Tests	1.667	2.315

Category	Hours	% Percent
Total	72.000	

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Production Listing (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Production Totals (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Iceland: Accpt
8/2/2024 - 8/4/2024
MCS 15000m 50m, Source Only

Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 04 Aug

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 04 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
Josh Kasinger L-DEO OMO Chief Source Mechanic
Brian Agee L-DEO OMO Source Mechanic
Gilles Guerin - L-DEO OMO Observer
Riley Lopez - L-DEO OMO Observer
Koray Ergun.- L-DEO OMO Navigator
Malcolm Moody - Contract Source Mechanic
Jason Rodham - Contract Source Mechanic
Leon Da Silva Souza - Contract Source Mechanic
Tomasz Kranz - Contract Source Mechanic

8/4/2024

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PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO










Science Party On-board the Langseth

Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:05	13:05	 Fire Drill	Drls_Fi
HSE - Fire Drill			
13:05	14:05	 Abandon Ship Drill	Drls_AS
HSE - Abandon Ship Drill			
14:05	15:05	 Other Training	Trng_OT
Training with Sci/OBS/PSO/Tech teams on MOB procedures.			
15:05	16:05	 Vessel Induction Tours	Trng_VIT
HSE - Vessel Induction Tour			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Drills	Drls	2	2	2	2	2.000	
 Abandon Ship Drill	AS	1	1	1	1	1.000	
 Fire Drill	Fi	1	1	1	1	1.000	
 Training	Trng	2	2	2	2	2.000	
 Other Training	OT	1	1	1	1	1.000	
 Vessel Induction Tours	VIT	1	1	1	1	1.000	
 Meetings	Mtgs	0	2	2	2	1.000	
 Start-up Meeting	StUp	0	1	1	1	1.000	
 Vessel HSE meeting	VHse	0	1	1	1		

8/5/2024

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Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Mon 05 Aug

The day started with the crew on deck performing the test casts for the acoustics. The weather was marginal and it was decided to stop the cast after 4, secure for the weather and continue the transit. The vessel transited until 1300, the vessel was then slowed and the 5th and last test cast was done. Two XBT's were done during the day, with the Sci team quickly learning the ropes and starting to train other scientists. The OBS team has been hard at work all day preparing instruments, installing acoustics and performing last minute checks. At end of day the vessel was approaching the first OBS drop, the tool box talk was done and the crew were on deck waiting for the 50 meter clear to drop call from the bridge.

Daily Comment Summaries - Plan for Tomorrow

Mon 05 Aug

Start OBS ops

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	03:03	Tests	SB_TE	3.050
Test Cast for Acoustics				
03:03	13:16	Transit to Prospect	MB_TT	10.217
In transit to prospect, for mobilizing deployment.				
13:16	14:09	Tests	SB_TE	0.883
Test Cast for Acoustics				
14:09	24:00	Transit to Prospect	MB_TT	9.850
In transit to prospect, for mobilizing deployment.				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

5-Aug	Hours	% Percent
Chargeable Standby	3.933	16.389
Tests	3.933	16.389
Mobilisation	20.067	83.611
Transit to Prospect	20.067	83.611
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m)

Category	Hours	% Percent
Mobilisation	90.400	94.167
Mob Ashore	58.000	60.417
Transit to Prospect	32.400	33.750
Chargeable Standby	5.600	5.833
Tests	5.600	5.833

Category	Hours	% Percent
Total	96.000	

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Production Listing (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

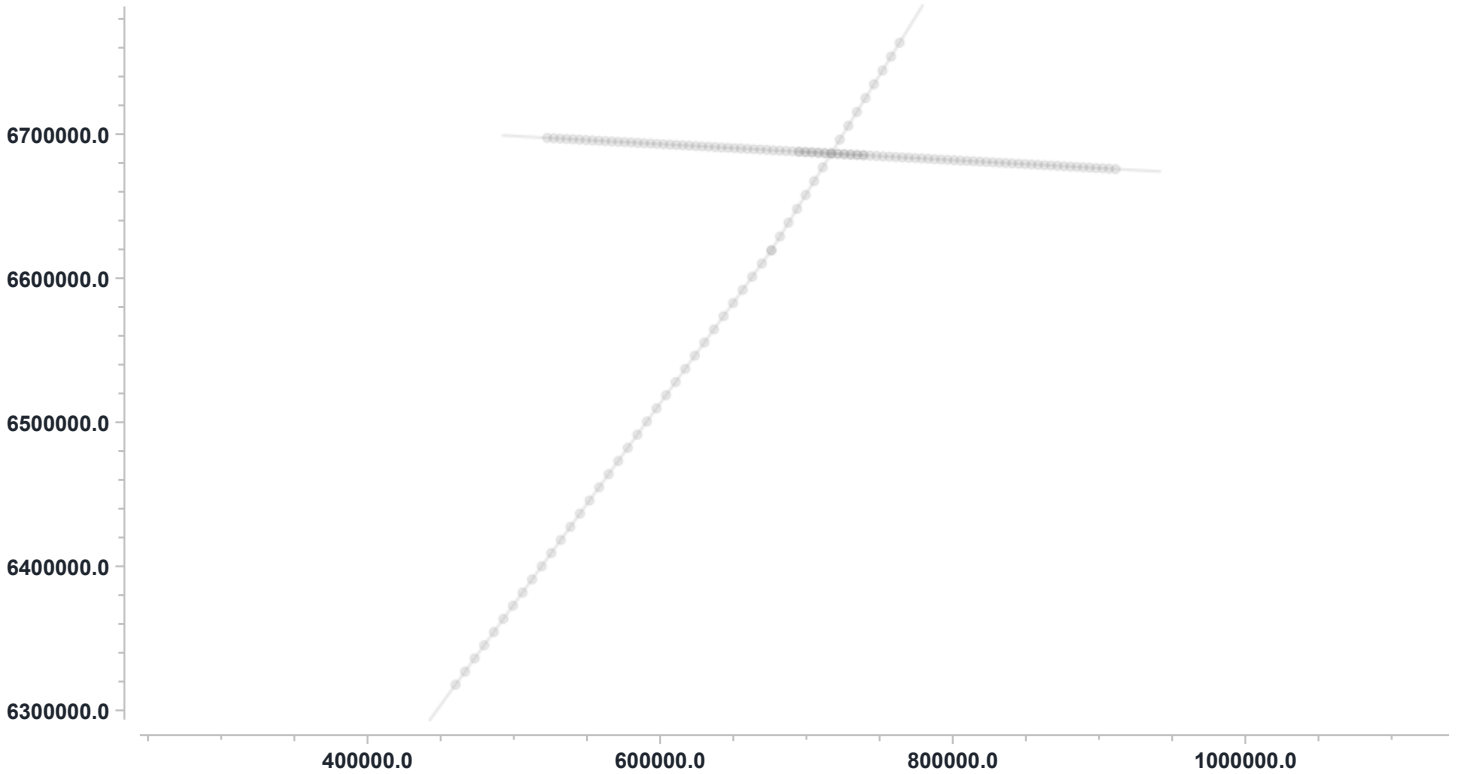
Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0.00			

Production Totals (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Iceland: Accpt
8/2/2024 - 8/5/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 05 Aug

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 05 Aug

Technical Staff On-board the Langseth

- Cody Bahlau L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Brian Agee L-DEO OMO Source Mechanic
- Gilles Guerin - L-DEO OMO Observer
- Riley Lopez - L-DEO OMO Observer
- Koray Ergun.- L-DEO OMO Navigator
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 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
Daily Total Category		Code	Count
		Toolbox Meetings	Mtgs_Tbox
TBT - Cast 5			1

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	2	2	2.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	
Fire Drill	Fi	0	0	1	1	1.000	
Training	Trng	0	0	2	2	2.000	
Other Training	OT	0	0	1	1	1.000	
Vessel Induction Tours	VIT	0	0	1	1	1.000	
Meetings	Mtgs	1	1	3	3	1.000	
Start-up Meeting	StUp	0	0	1	1	1.000	
Toolbox Meetings	Tbox	1	1	1	1		
Vessel HSE meeting	VHse	0	0	1	1		

8/6/2024

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Client: Lamont-Doherty Earth Observatory
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Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Tue 06 Aug

The day started with OBS ops and ended with OBS ops.
 The weather was marginal all day with a lot of water on deck and the vessel moving around quite a bit.
 The OBS and Sci teams did a great job preparing the instruments and having everything ready to go.
 A hydraulic hose on the A-frame broke. The teams rigged another winch up and ran the line through the A-frame. OBS ops continued until a new hose was installed.
 At end of day the team has just deployed OBS 15.

Daily Comment Summaries - Plan for Tomorrow

Tue 06 Aug

Complete OBS Ops
 Deploy seismic source
 Start data acquisition on line P-Fe

Timing Diary (Marcus G Langseth, OBS_Deployment)



Start	End	Category	Code	Duration (hrs)
00:00	16:30	Receiver Deployment	AC_RDR_FF_RD	16.500
16:30	17:00	Vessel	DT_VE	0.500
Downtime due to vessel - Hydraulic System				
17:00	18:30	Receiver Deployment	AC_RDR_FF_RD	1.500
18:30	19:00	Vessel	DT_VE	0.500
Downtime due to vessel - Hydraulic System				
19:00	24:00	Receiver Deployment	AC_RDR_FF_RD	5.000

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment)

6-Aug	Hours	% Percent
Acquisition	23.000	95.833
Receiver Deployment/Recovery	23.000	95.833
Free Fall OBS	23.000	95.833
Receiver Deployment	23.000	95.833
DownTime	1.000	4.167
Vessel	1.000	4.167
Mobilisation	0.000	0.000
Transit to Prospect	0.000	0.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment)

Category	Hours	% Percent
Mobilisation	90.400	75.333

Category	Hours	% Percent
Mob Ashore	58.000	48.333
Transit to Prospect	32.400	27.000
Acquisition	23.000	19.167
Receiver Deployment/Recovery	23.000	19.167
Free Fall OBS	23.000	19.167
Receiver Deployment	23.000	19.167
Chargeable Standby	5.600	4.667
Tests	5.600	4.667
DownTime	1.000	0.833
Vessel	1.000	0.833
Total	120.000	

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Production Listing (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Production Totals - Report Period (points)

OBS_Deployment

Accepted	Total
Deployment	36

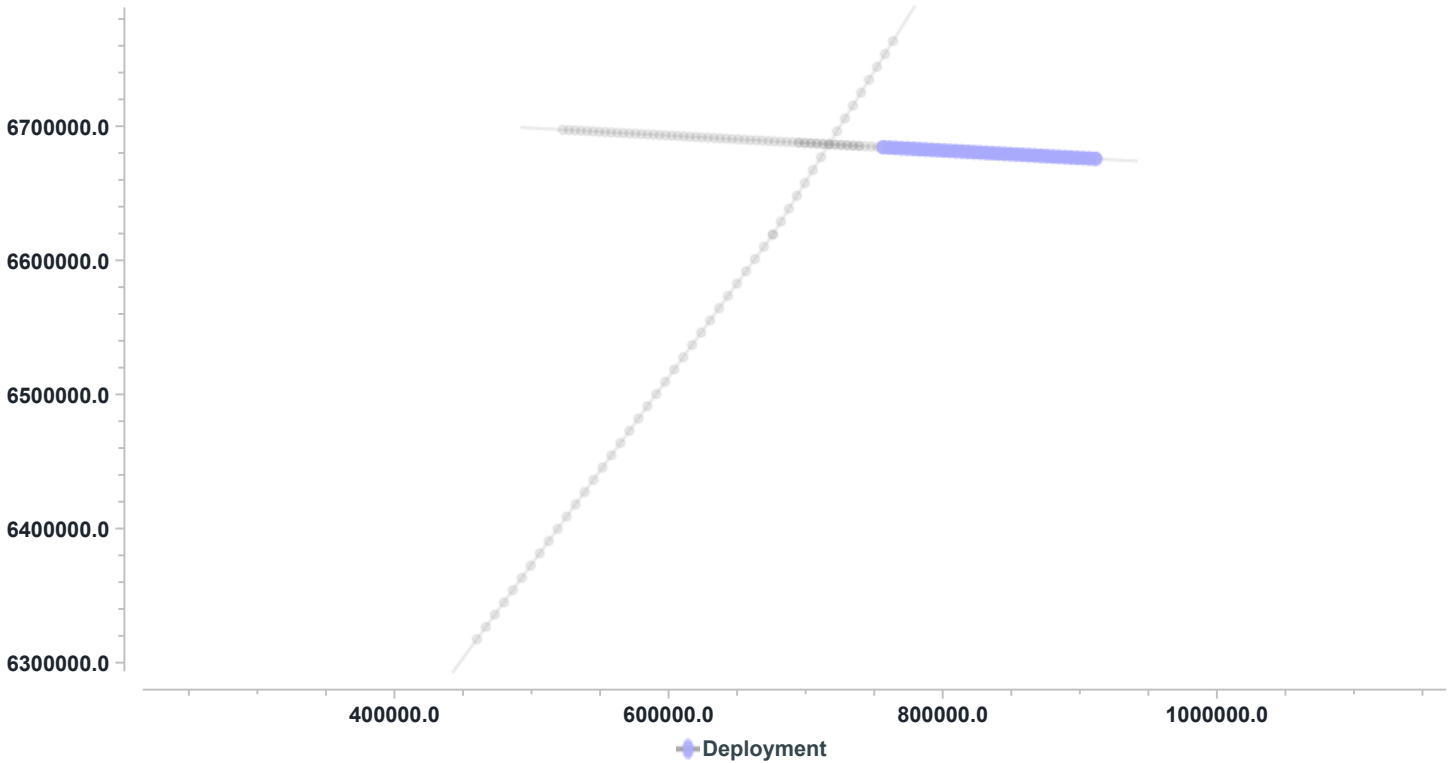
Production Listing (points)

OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
1	PFe-50	0	0	Deployment	1	0.013	Complete
1	PFe-49	0	0	Deployment	1	0.003	Complete
1	PFe-48	0	0	Deployment	1	0.002	Complete
1	PFe-47	0	0	Deployment	1	0.003	Complete

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
1	PFe-46	0	0	Deployment	1	0.003	Complete
1	PFe-45	0	0	Deployment	1	0.003	Complete
1	PFe-44	0	0	Deployment	1	0.003	Complete
1	PFe-43	0	0	Deployment	1	0.003	Complete
1	PFe-42	0	0	Deployment	1	0.002	Complete
1	PFe-41	0	0	Deployment	1	0.002	Complete
1	PFe-40	0	0	Deployment	1	0.003	Complete
1	PFe-39	0	0	Deployment	1	0.003	Complete
1	PFe-38	0	0	Deployment	1	0.003	Complete
1	PFe-37	0	0	Deployment	1	0.003	Complete
1	PFe-36	0	0	Deployment	1	0.003	Complete
1	PFe-35	0	0	Deployment	1	0.003	Complete
1	PFe-34	0	0	Deployment	1	0.003	Complete
1	PFe-33	0	0	Deployment	1	0.002	Complete
1	PFe-32	0	0	Deployment	1	0.002	Complete
1	PFe-31	0	0	Deployment	1	0.001	Complete
1	PFe-30	0	0	Deployment	1	0.002	Complete
1	PFe-29	0	0	Deployment	1	0.002	Complete
1	PFe-28	0	0	Deployment	1	0.002	Complete
1	PFe-27	0	0	Deployment	1	0.002	Complete
1	PFe-26	0	0	Deployment	1	0.002	Complete
1	PFe-25	0	0	Deployment	1	0.001	Complete
1	PFe-24	0	0	Deployment	1	0.002	Complete
1	PFe-23	0	0	Deployment	1	0.003	Complete
1	PFe-22	0	0	Deployment	1	0.001	Complete
1	PFe-21	0	0	Deployment	1	0.003	Complete
1	PFe-20	0	0	Deployment	1	0.001	Complete
1	PFe-19	0	0	Deployment	1	0.003	Complete
1	PFe-18	0	0	Deployment	1	0.002	Complete
1	PFe-17	0	0	Deployment	1	0.001	Complete
1	PFe-16	0	0	Deployment	1	0.002	Complete
1	PFe-15	0	0	Deployment	1	0.001	Complete
Total					36		

Iceland: Accpt
8/2/2024 - 8/6/2024
MCS 15000m 50m, OBS_Deployment, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 06 Aug

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 06 Aug

Technical Staff On-board the Langseth

- Cody Bahlau L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Brian Agee L-DEO OMO Source Mechanic
- Gilles Guerin - L-DEO OMO Observer
- Riley Lopez - L-DEO OMO Observer
- Koray Ergun.- L-DEO OMO Navigator
- Malcolm Moody - Contract Source Mechanic
- Jason Rodham - Contract Source Mechanic
- Leon Da Silva Souza - Contract Source Mechanic
- Tomasz Kranz - Contract Source Mechanic

8/6/2024

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PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth

Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
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Daily Total Category	Code	Count
Toolbox Meetings	Mtgs_Tbox	1

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	2	2	2.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	
Fire Drill	Fi	0	0	1	1	1.000	
Training	Trng	0	0	2	2	2.000	
Other Training	OT	0	0	1	1	1.000	
Vessel Induction Tours	VIT	0	0	1	1	1.000	
Meetings	Mtgs	1	2	4	4	1.000	
Start-up Meeting	StUp	0	0	1	1	1.000	
Toolbox Meetings	Tbox	1	2	2	2		
Vessel HSE meeting	VHse	0	0	1	1		

8/7/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Wed 07 Aug

The day started with OBS PFe-14 being deployed.
 OBS deployment ended around 9:30 am and the team started to prepare for source deployment.
 The PAM cable was deployed and the gun arrays were started.
 Once the 4 gun arrays were out and the all clear was given by the PSO team a soft start was commenced
 Gun arrays 2, 3 and 4 were brought back on deck for minor maintenance to ensure we have a 100% operational source for the first line.
 After the source work the magnetometer was deployed. The fish works for 10-15 and then the data is bad.
 The team has a plan in place to change this out after we recover the guns.
 At end of day the guns were deployed and the vessel is moving at 5 kts down line.

Daily Comment Summaries - Plan for Tomorrow

Wed 07 Aug

Continue with data acquisition on line PF-e

Timing Diary (Marcus G Langseth, OBS_Deployment, Source Only)



Start	End	Category	Code	Duration (hrs)
00:00	09:27	Receiver Deployment	AC_RDR_FF_RD	9.450
09:27	14:30	Deployment	MB_DP	5.050
Deploying source and ramping up				
14:30	20:05	Deployment	DT_SC_D	5.583
Recover arrays to fix a few issues; Autofire, Sensor signal returns, gun no fires.				
20:05	24:00	Prime	AC_PP	3.917
Seq: 2				

Timing Day by Day (Marcus G Langseth, OBS_Deployment, Source Only)

7-Aug	Hours	% Percent
Acquisition	13.367	55.694
Prime	3.917	16.319
Receiver Deployment/Recovery	9.450	39.375
Free Fall OBS	9.450	39.375
Receiver Deployment	9.450	39.375
DownTime	5.583	23.264
Source	5.583	23.264
Deployment	5.583	23.264
Mobilisation	5.050	21.042
Deployment	5.050	21.042
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	95.450	66.285
Deployment	5.050	3.507
Mob Ashore	58.000	40.278
Transit to Prospect	32.400	22.500
DownTime	6.583	4.572
Source	5.583	3.877
Deployment	5.583	3.877
Vessel	1.000	0.694
Acquisition	36.367	25.255
Prime	3.917	2.720
Receiver Deployment/Recovery	32.450	22.535
Free Fall OBS	32.450	22.535
Receiver Deployment	32.450	22.535
Chargeable Standby	5.600	3.889
Tests	5.600	3.889
Total	144.000	

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	27.10	27.10	27.10	27.10
Combined	27.10	27.10	27.10	27.10

Production Listing (Accpt Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
1	P-Fe	93.2	2712	2171	Prime	27.10	5.125	Midnight	Part
Total						27.10			

Production Totals (points)

OBS_Deployment

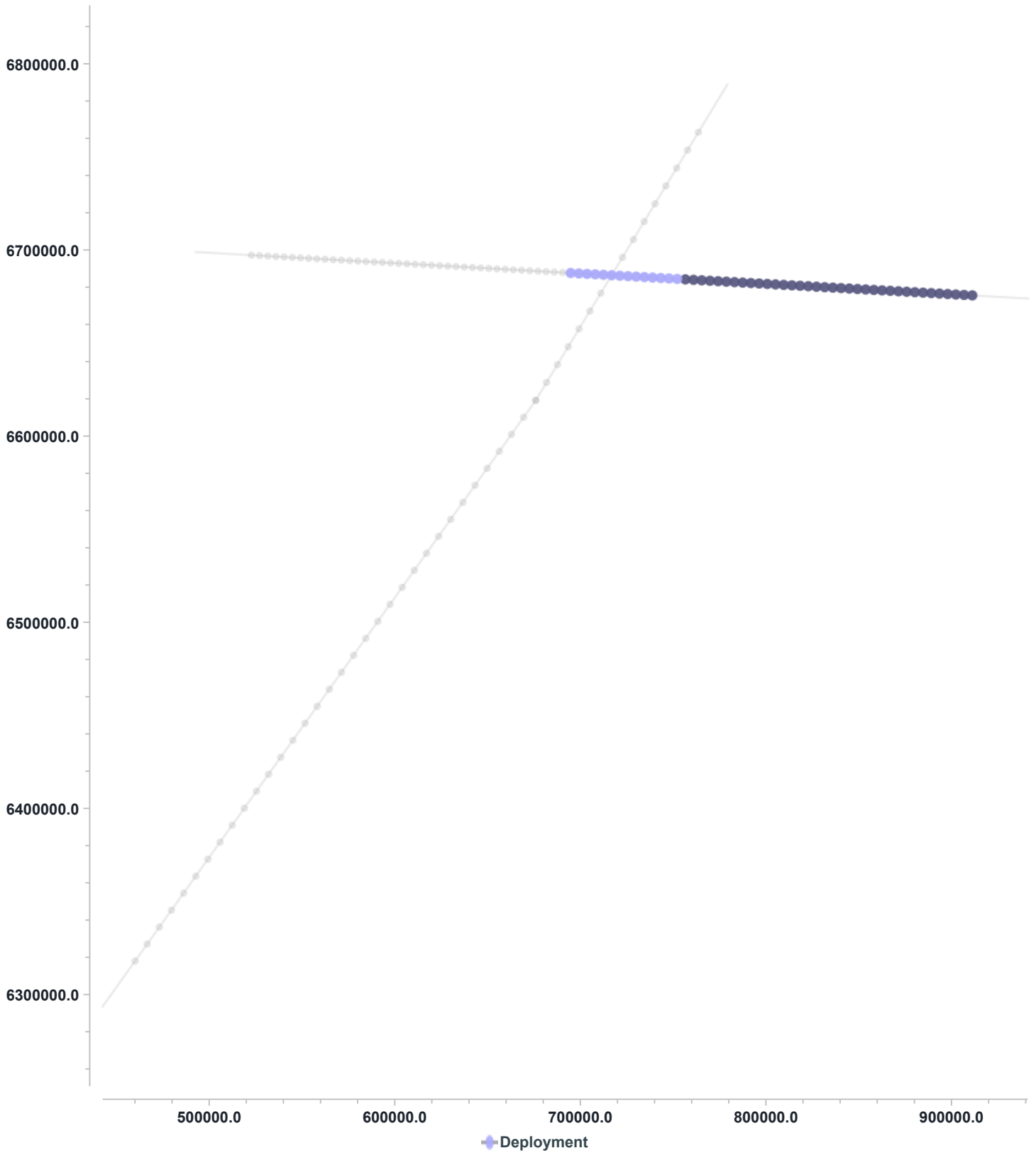
Accepted	Day	Week	Month	Project
Deployment	14	50	50	50

Production Listing (points)

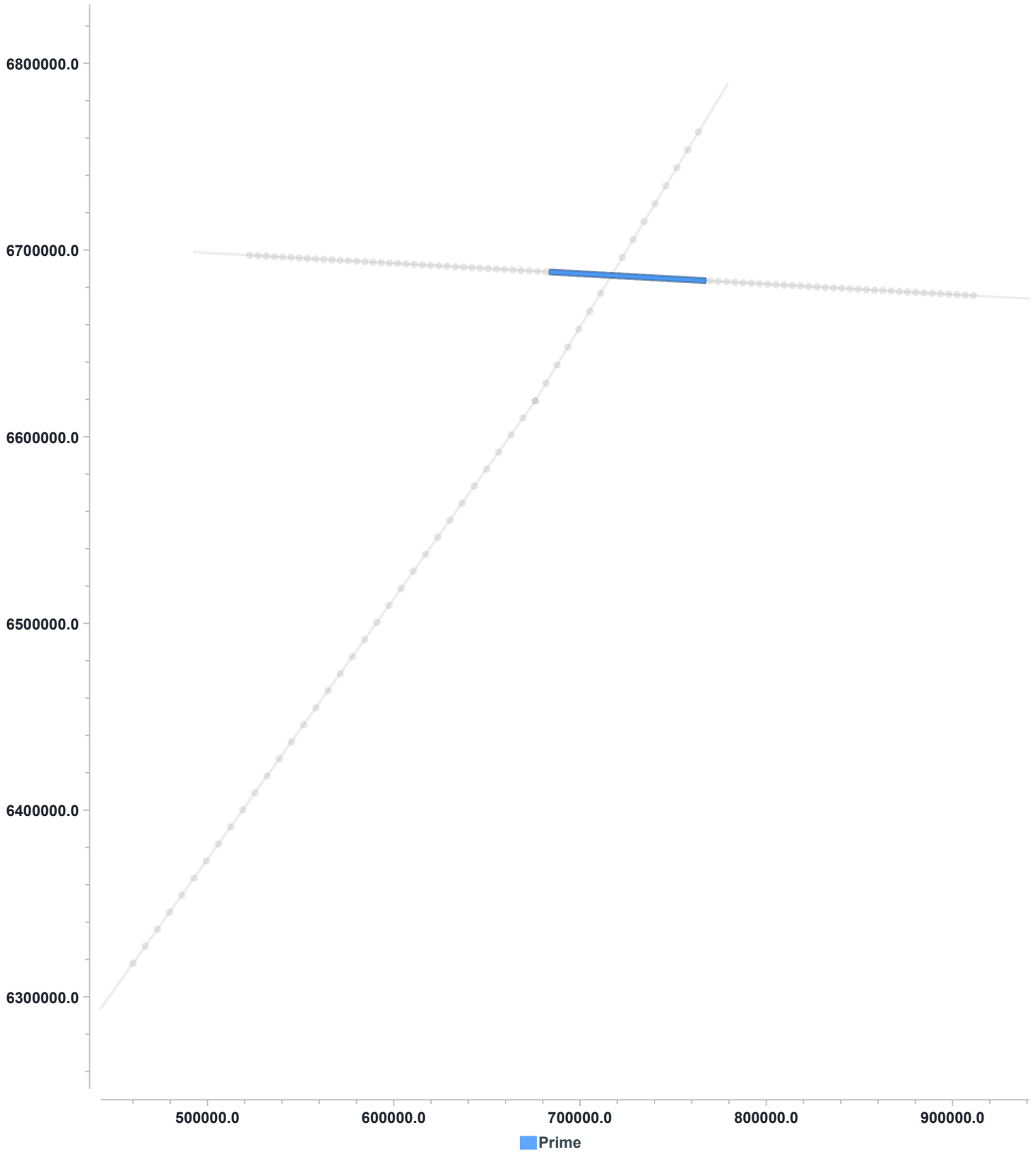
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
2	PFe-14	0	0	Deployment	1	0.006	Complete
2	PFe-13	0	0	Deployment	1	0.001	Complete
2	PFe-12	0	0	Deployment	1	0.001	Complete
2	PFe-11	0	0	Deployment	1	0.001	Complete
2	PFe-10	0	0	Deployment	1	0.001	Complete
2	PFe-9	0	0	Deployment	1	0.001	Complete
2	PFe-8	0	0	Deployment	1	0.003	Complete
2	PFe-7	0	0	Deployment	1	0.003	Complete
2	PFe-6	0	0	Deployment	1	0.003	Complete
2	PFe-5	0	0	Deployment	1	0.002	Complete
2	PFe-4	0	0	Deployment	1	0.003	Complete
2	PFe-3	0	0	Deployment	1	0.002	Complete
2	PFe-2	0	0	Deployment	1	0.003	Complete
2	PFe-1	0	0	Deployment	1	0.003	Complete
Total					14		

Iceland: Acppt
8/2/2024 - 8/7/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 8/7/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 07 Aug

8/7/2024

Page 6

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

No Major Issues to Report

Towing and Handling (Source):

Maggie is not 100%

General Purpose Science:

No Major issues to Report.

Daily Comment Summaries - Personnel Onboard

Wed 07 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth







Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
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HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	2	2	2.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	
Fire Drill	Fi	0	0	1	1	1.000	
Training	Trng	0	0	2	2	2.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	
 Meetings	Mtgs	0	2	4	4	1.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	2	2	2		
 Vessel HSE meeting	VHse	0	0	1	1		

8/8/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Thu 08 Aug

A full day of production.
 The guns were out and the vessel had full volume, 6600 cuin all day.
 All teams took the time to catch up on a lot of odd jobs.
 The OBS team were busy moving weights around on deck and securing them in preparation for recovery.

A MOB vessel drill was done in the morning.

Daily Comment Summaries - Plan for Tomorrow

Thu 08 Aug

The line will end around 2am.
 The source, maggie and PAM will be recovered.
 The maggie will be trouble shot.
 An XBT will be done after the gear is out of the water.
 The vessel will transit for the first OBS recovery location.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Prime	AC_PP	24.000
Seq: 1 Line was shot in TIME mode: 60s per shot point.				

Timing Day by Day (Marcus G Langseth, Source Only)

8-Aug	Hours	% Percent
Acquisition	24.000	100.000
Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	95.450	56.815
Deployment	5.050	3.006
Mob Ashore	58.000	34.524
Transit to Prospect	32.400	19.286
DownTime	6.583	3.919
Source	5.583	3.323
Deployment	5.583	3.323
Vessel	1.000	0.595
Acquisition	60.367	35.933
Prime	27.917	16.617

Category	Hours	% Percent
Receiver Deployment/Recovery	32.450	19.315
Free Fall OBS	32.450	19.315
Receiver Deployment	32.450	19.315
Chargeable Standby	5.600	3.333
Tests	5.600	3.333
Total	168.000	

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	52.45	79.55	79.55	79.55
Combined	52.45	79.55	79.55	79.55

Production Listing (Accpt Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
1	P-Fe	93.2	2170	1122	Prime	52.45	1.599	Midnight	Part
Total						52.45			

Production Totals (points)

OBS_Deployment

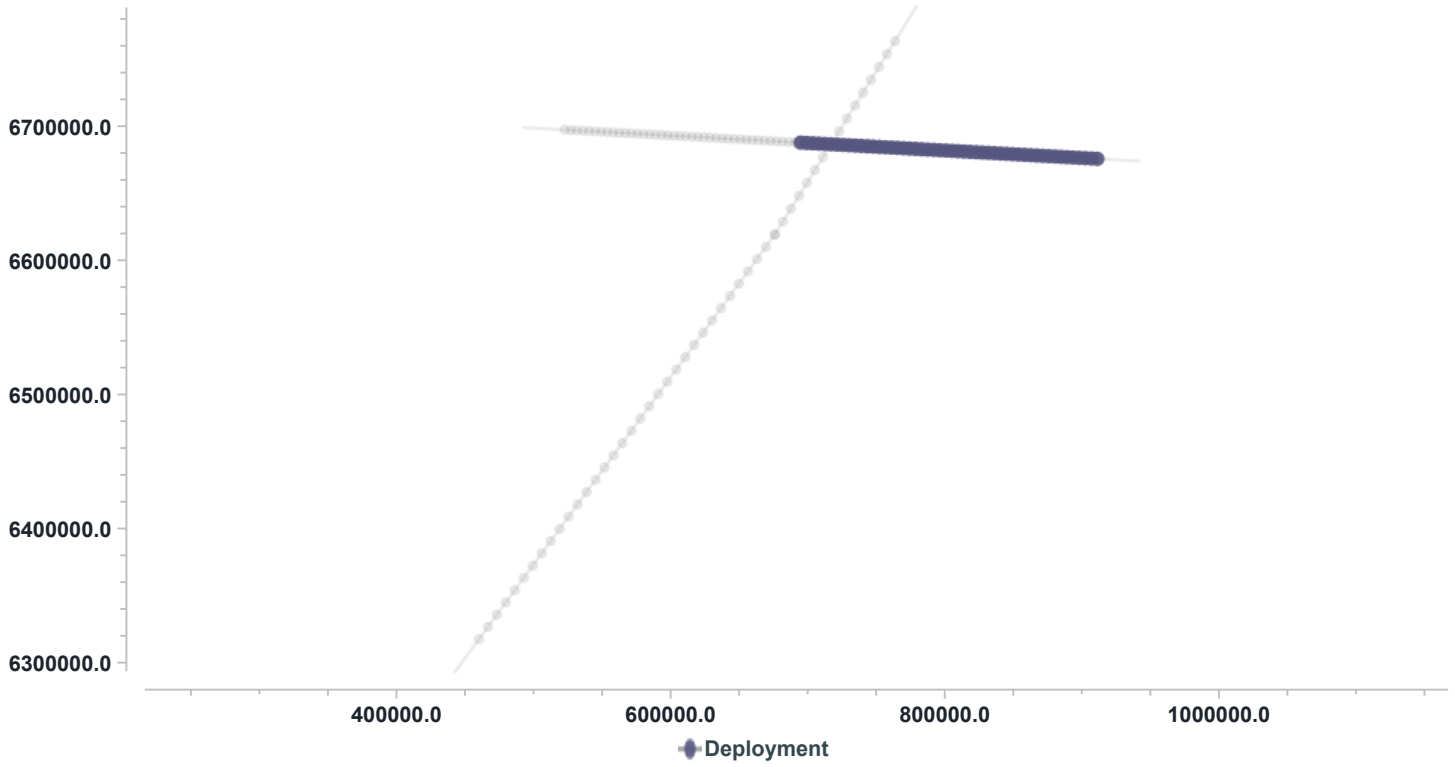
Accepted	Day	Week	Month	Project
Deployment	0	50	50	50

Production Listing (points)

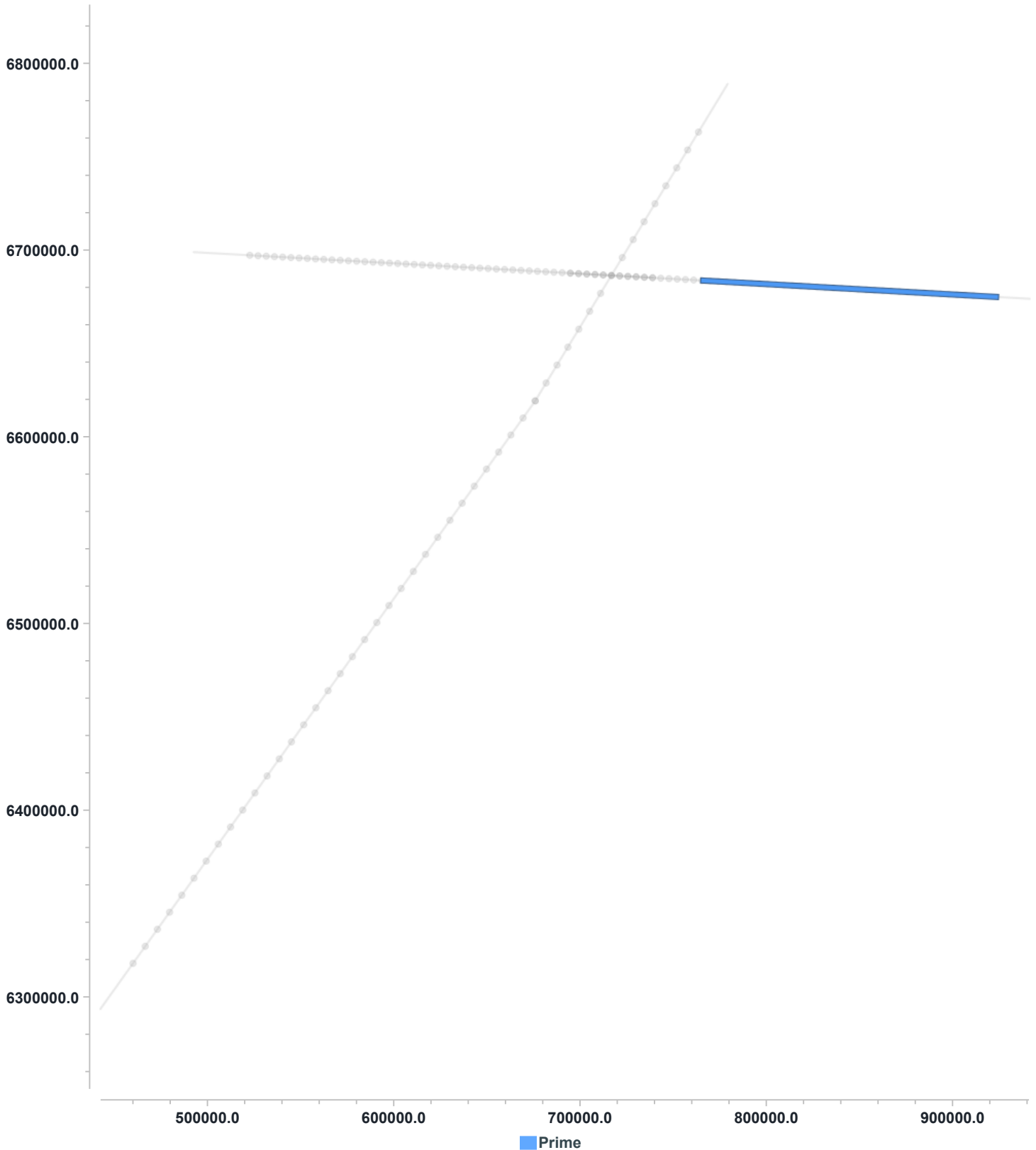
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

Iceland: Accpt
8/2/2024 - 8/8/2024
OBS_Deployment



Iceland: Accpt
8/8/2024 - 8/8/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 08 Aug

8/8/2024

Page 5

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

No Major Issues to Report

Towing and Handling (Source):

Maggie is not 100%

General Purpose Science:

No Major issues to Report.

Daily Comment Summaries - Personnel Onboard

Thu 08 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
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 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO



Science Party On-board the Langseth










Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
10:15	11:15	 MOB Drill	Drls_MOB
HSE - MOB Drill			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Drills	Drls	1	1	3	3	3.000	
 Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	1	1	1	1	1.000	
 Training	Trng	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	
 Meetings	Mtgs	0	2	4	4	1.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	2	2	2		
 Vessel HSE meeting	VHse	0	0	1	1		

8/9/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Fri 09 Aug

The day started with the vessel acquiring the last portion of PF-e.
 At 0200 the line was ended and the gear was recovered.
 There was a short transit to OBS PFe-50 where the vessel started recovery mode.
 During the morning there was a slight swell which created some extra attention on deck.

The Tech team were working on the gun arrays getting them to 100% for deployment; sensor lines were checked, air leaks were searched for etc
 The Magnetometer was also trouble shot and is ongoing. We hope to have this sorted on the 10th.

At end of day the vessel had recovered 10 OBS's with the 11th on surface and the vessel maneuvering for recovery.

Daily Comment Summaries - Plan for Tomorrow

Fri 09 Aug

Continue with OBS recovery.
 Finish trouble shooting the Magnetometer.

Timing Diary (Marcus G Langseth, Source Only)



Start	End	Category	Code	Duration (hrs)
00:00	02:00	Prime	AC_PP	2.000
Seq: 1 EOL MGL2408002OPFe2 - LGSP 3732				
02:00	04:24	Recovery	DM_RC	2.400
Recovery: Source, Maggie, PAM				
04:24	06:26	Transit	SB_TRT	2.033
Transit from Source Recovery to OBS PFe-50				
06:26	24:00	Receiver Recovery	AC_RDR_FF_RRec	17.567

Timing Day by Day (Marcus G Langseth, Source Only)

9-Aug	Hours	% Percent
Acquisition	19.567	81.528
Prime	2.000	8.333
Receiver Deployment/Recovery	17.567	73.194
Free Fall OBS	17.567	73.194
Receiver Recovery	17.567	73.194
Chargeable Standby	2.033	8.472
Transit	2.033	8.472
Demobilisation	2.400	10.000
Recovery	2.400	10.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	95.450	49.714
Deployment	5.050	2.630
Mob Ashore	58.000	30.208
Transit to Prospect	32.400	16.875
DownTime	6.583	3.429
Source	5.583	2.908
Deployment	5.583	2.908
Vessel	1.000	0.521
Acquisition	79.933	41.632
Prime	29.917	15.582
Receiver Deployment/Recovery	50.017	26.050
Free Fall OBS	50.017	26.050
Receiver Deployment	32.450	16.901
Receiver Recovery	17.567	9.149
Demobilisation	2.400	1.250
Recovery	2.400	1.250
Chargeable Standby	7.633	3.976
Tests	5.600	2.917
Transit	2.033	1.059
Total	192.000	

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	6.05	85.60	85.60	85.60
Combined	6.05	85.60	85.60	85.60

Production Listing (Accpt Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
1	P-Fe	93.2	1121	1001	Prime	6.05	1.601	Complete	Complete
Total						6.05			

Production Totals (points)

OBS_Deployment

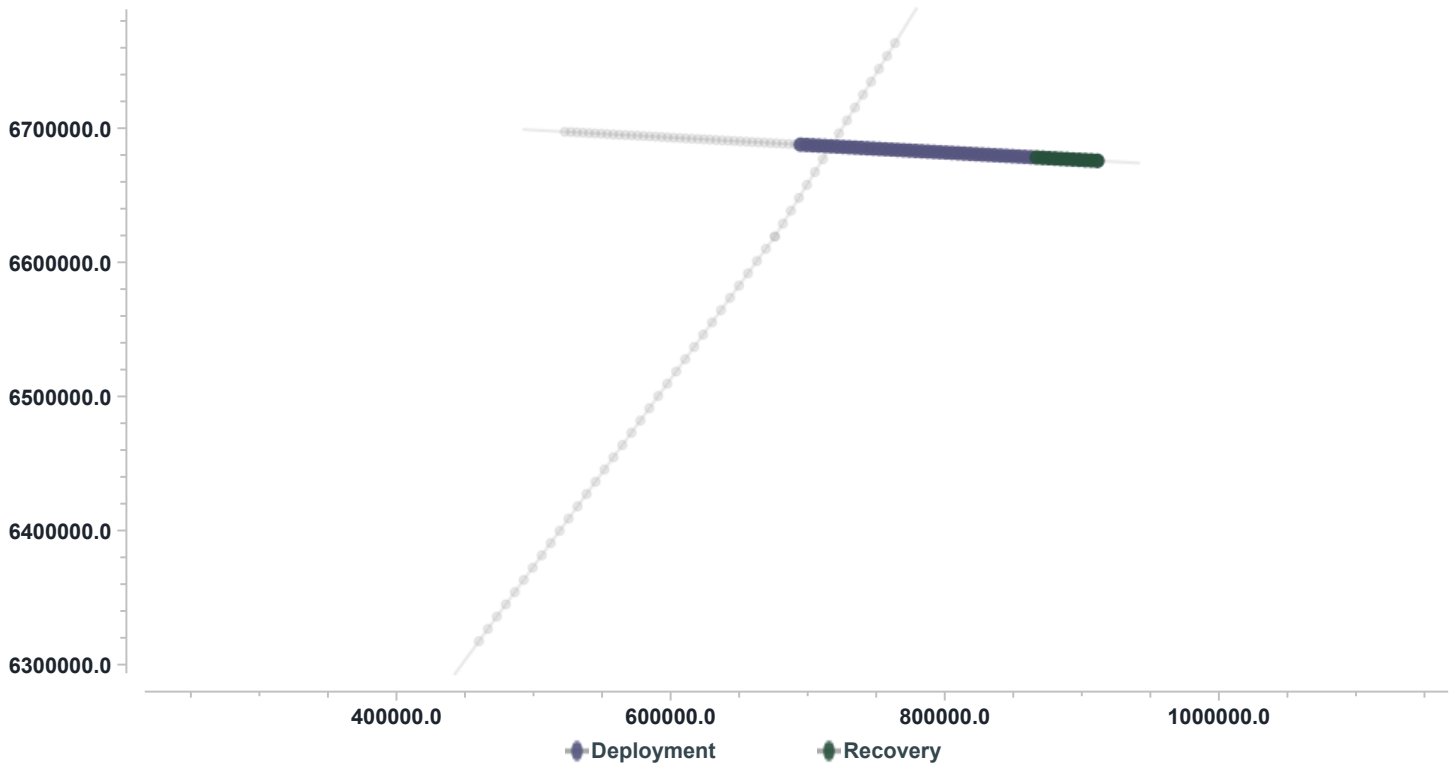
Accepted	Day	Week	Month	Project
Deployment	0	50	50	50
Recovery	11	11	11	11

Production Listing (points)

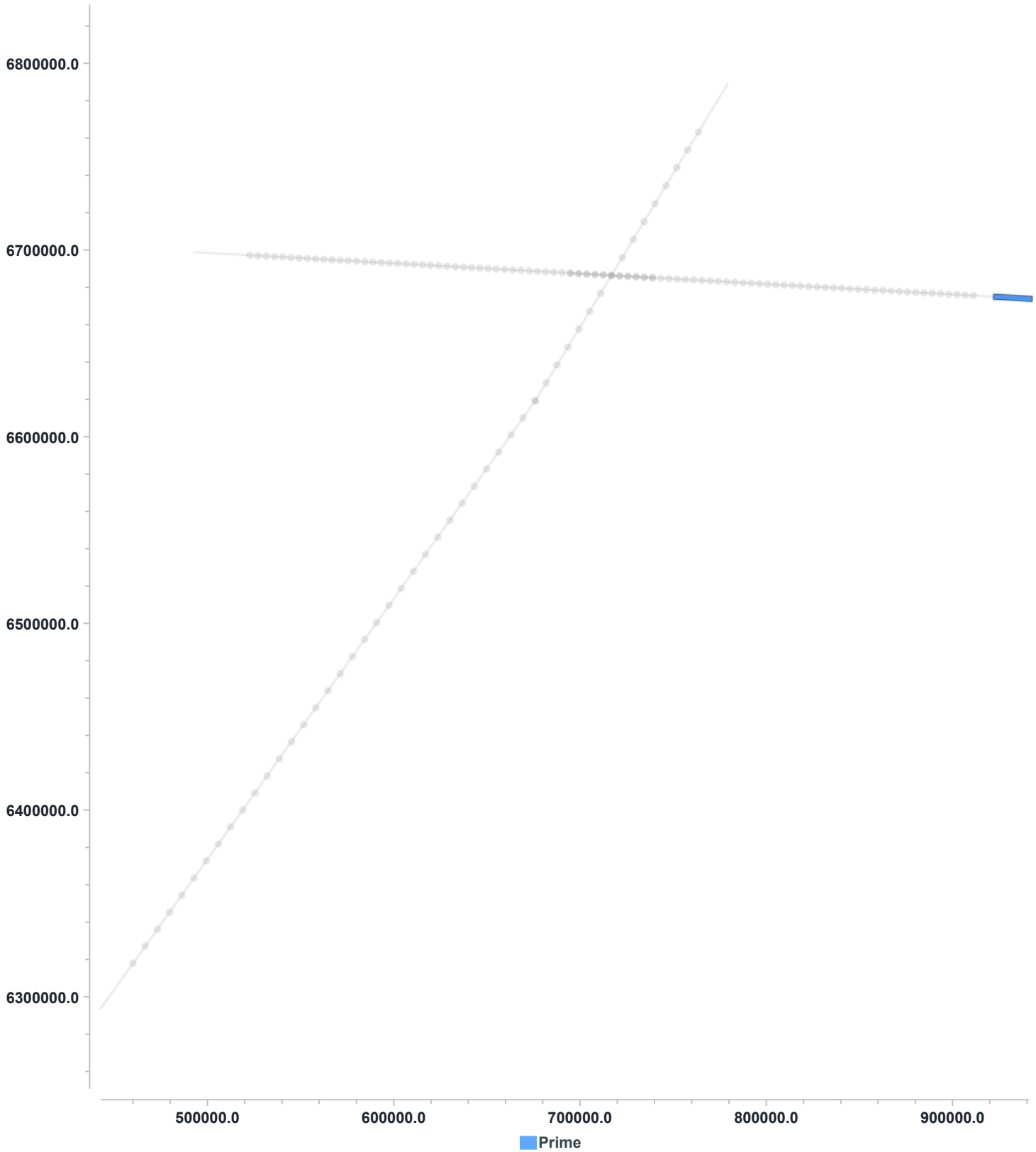
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
3	PFe-50	0	0	Recovery	1	0.001	Complete
3	PFe-49	0	0	Recovery	1	0.001	Complete
3	PFe-48	0	0	Recovery	1	0.001	Complete
3	PFe-47	0	0	Recovery	1	0.001	Complete
3	PFe-46	0	0	Recovery	1	0.001	Complete
3	PFe-45	0	0	Recovery	1	0.001	Complete
3	PFe-44	0	0	Recovery	1	0.001	Complete
3	PFe-43	0	0	Recovery	1	0.001	Complete
3	PFe-42	0	0	Recovery	1	0.001	Complete
3	PFe-41	0	0	Recovery	1	0.001	Complete
3	PFe-40	0	0	Recovery	1	0.001	Complete
Total					11		

Iceland: Accpt
8/2/2024 - 8/9/2024
OBS_Deployment



Iceland: Accpt
8/9/2024 - 8/9/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 09 Aug

8/9/2024

Page 5

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

No Major Issues to Report

Towing and Handling (Source):

Maggie is being trouble shot

General Purpose Science:

No Major issues to Report.

Daily Comment Summaries - Personnel Onboard

Fri 09 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
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Cassandra Frey - RPS Lead PSO
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 Ana Salomon - RPS PSO
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 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

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Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
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HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	1	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	
Fire Drill	Fi	0	0	1	1	1.000	
MOB Drill	MOB	0	1	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Training	Trng	0	0	2	2	2.000	
Other Training	OT	0	0	1	1	1.000	
Vessel Induction Tours	VIT	0	0	1	1	1.000	
Meetings	Mtgs	0	2	4	4	1.000	
Start-up Meeting	StUp	0	0	1	1	1.000	
Toolbox Meetings	Tbox	0	2	2	2		
Vessel HSE meeting	VHse	0	0	1	1		

8/10/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sat 10 Aug

The day started with OBS PFe 39 floating down the side of the vessel. Just after midnight it was on deck. It was a great day of OBS recoveries. The weather cooperated and the teams were in sync. The OBS team has done a great job preparing the OBS's in between recoveries for the next deployment. They are lined up on deck ready to go.



The magnetometer was trouble shot and appears to be working now. The final test will be during the transit from the last recovery to the first deployment which is around 3 hours. The source has had last minute tests and tweaks and is ready to deploy.

Work is ongoing for the streamer deployment. Some trouble shooting with sections on reel 3. The team are testing the tail buoy interfaces boxes and integrating in the new 4DX positioning system.

At end of the day the vessel was approaching OBS PFe-21.

Daily Comment Summaries - Plan for Tomorrow

Sat 10 Aug

Finish OBS recovery and transit to the deployment point. Test Maggie on the transit.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Receiver Recovery	AC_RDR_FF_RRec	24.000

Timing Day by Day (Marcus G Langseth, Source Only)

10-Aug	Hours	% Percent
Acquisition	24.000	100.000

8/10/2024

Page 2

10-Aug	Hours	% Percent
Receiver Deployment/Recovery	24.000	100.000
Free Fall OBS	24.000	100.000
Receiver Recovery	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	95.450	44.190
Deployment	5.050	2.338
Mob Ashore	58.000	26.852
Transit to Prospect	32.400	15.000
DownTime	6.583	3.048
Source	5.583	2.585
Deployment	5.583	2.585
Vessel	1.000	0.463
Acquisition	103.933	48.117
Prime	29.917	13.850
Receiver Deployment/Recovery	74.017	34.267
Free Fall OBS	74.017	34.267
Receiver Deployment	32.450	15.023
Receiver Recovery	41.567	19.244
Demobilisation	2.400	1.111
Recovery	2.400	1.111
Chargeable Standby	7.633	3.534
Tests	5.600	2.593
Transit	2.033	0.941
Total	216.000	

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	0.00	85.60	85.60	85.60
Combined	0.00	85.60	85.60	85.60

8/10/2024

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Production Listing (Accept Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Production Totals (points)

OBS_Deployment

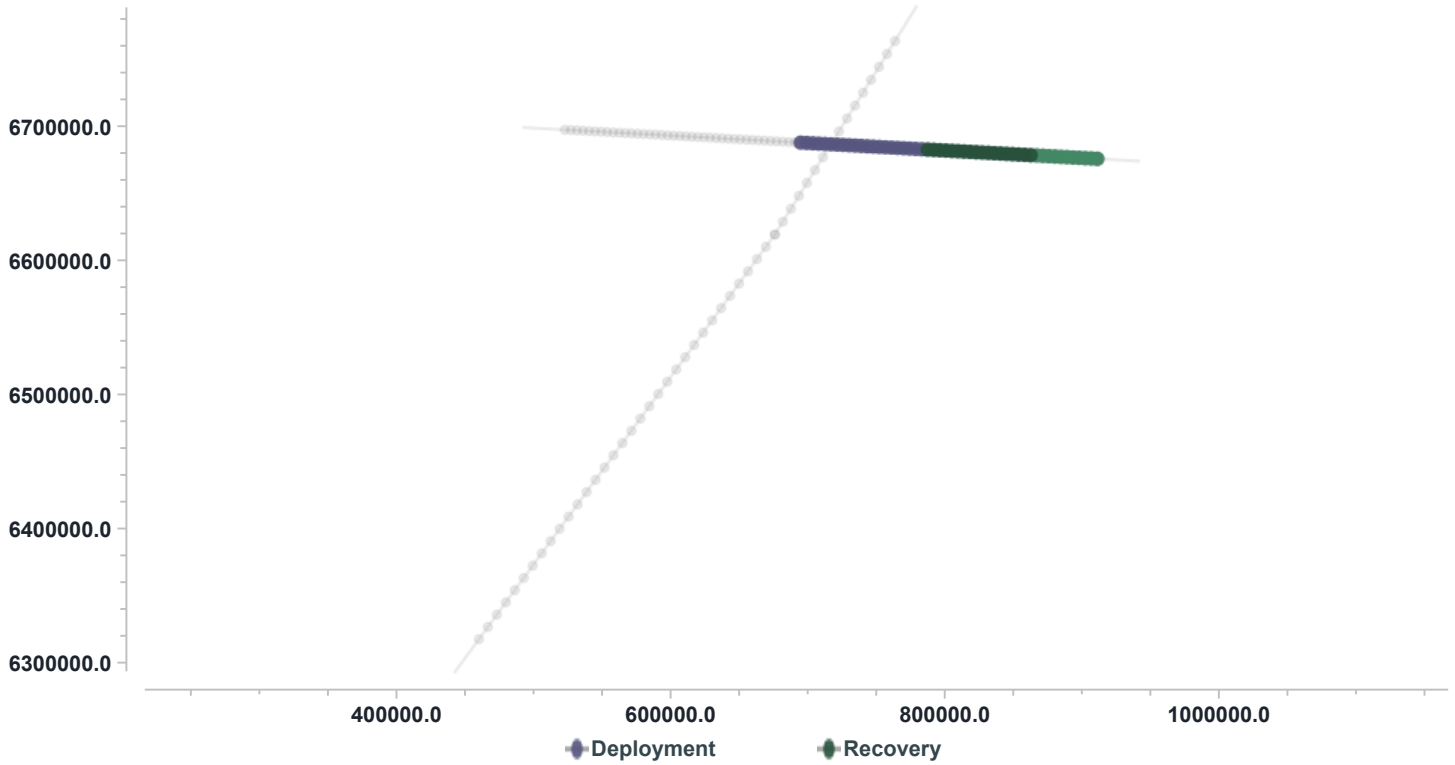
Accepted	Day	Week	Month	Project
Deployment	0	50	50	50
Recovery	18	29	29	29

Production Listing (points)

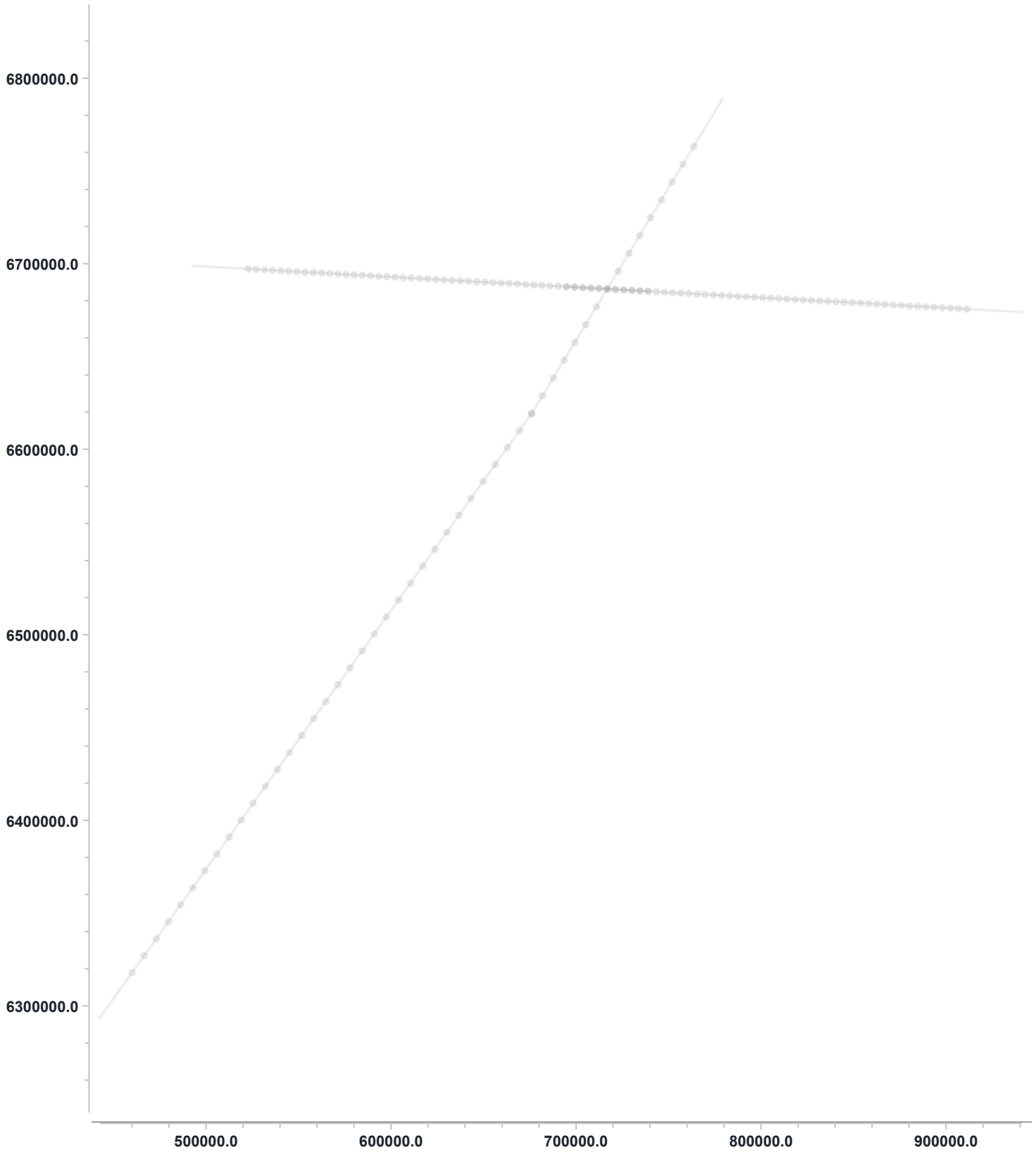
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
4	PFe-39	0	0	Recovery	1	0.078	Complete
4	PFe-38	0	0	Recovery	1	0.001	Complete
4	PFe-37	0	0	Recovery	1	0.001	Complete
4	PFe-36	0	0	Recovery	1	0.001	Complete
4	PFe-35	0	0	Recovery	1	0.001	Complete
4	PFe-34	0	0	Recovery	1	0.001	Complete
4	PFe-33	0	0	Recovery	1	0.001	Complete
4	PFe-32	0	0	Recovery	1	0.001	Complete
4	PFe-31	0	0	Recovery	1	0.001	Complete
4	PFe-30	0	0	Recovery	1	0.001	Complete
4	PFe-29	0	0	Recovery	1	0.001	Complete
4	PFe-28	0	0	Recovery	1	0.001	Complete
4	PFe-27	0	0	Recovery	1	0.001	Complete
4	PFe-26	0	0	Recovery	1	0.001	Complete
4	PFe-25	0	0	Recovery	1	0.001	Complete
4	PFe-24	0	0	Recovery	1	0.001	Complete
4	PFe-23	0	0	Recovery	1	0.001	Complete
4	PFe-22	0	0	Recovery	1	0.001	Complete
Total					18		

Iceland: Accpt
8/2/2024 - 8/10/2024
OBS_Deployment



Iceland: Accpt
8/10/2024 - 8/10/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 10 Aug

8/10/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 10 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
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 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)











Start	End	Category	Code
12:30	13:30	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	1	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

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Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	1	1	1	1.000	
 Meetings	Mtgs	1	8	10	10	7.000	
 Daily Ops Meeting	DOps	1	6	6	6	6.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	2	2	2		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/11/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sun 11 Aug

The day started with an approach to OBS PFe-21.
 At 12:30 the last OBS was recovered on line PFe.
 The vessel transited to the first deployment site on line PFw.
 While in transit the magnetometer was tested and it works well. Problem troubleshoot and fixed.
 The vessel started OBS deployment at 16:36.
 At end of day the vessel was deploying OBS, with 12 already sent deep.

With the first successful line, 100% recovery, 100% source volume and good data folks are starting to get excited.
 The Science team are starting to look at the well earned data.
 So far things are really looking good with a few exceptional sites for data quality.
 There are 2 instruments which will be looked at: water ingress and a logger that stopped.

But as always onboard the boat, nobody talks to loud about it, and there is a lot of knocking on wood and hoping it continues!

Daily Comment Summaries - Plan for Tomorrow

Sun 11 Aug

Continue with OBS deployment.
 Deploy the source and start data acquisition on line PFw.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	12:30	Receiver Recovery	AC_RDR_FF_RRec	12.500
12:30	16:12	Transit	SB_TRT	3.700
Transit from Last OBS Recovery on line PFe to first OBS deployment on line PFw.				
16:12	24:00	Receiver Deployment	AC_RDR_FF_RD	7.800

Timing Day by Day (Marcus G Langseth, Source Only)

11-Aug	Hours	% Percent
Acquisition	20.300	84.583
Receiver Deployment/Recovery	20.300	84.583
Free Fall OBS	20.300	84.583
Receiver Deployment	7.800	32.500
Receiver Recovery	12.500	52.083
Chargeable Standby	3.700	15.417
Transit	3.700	15.417
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	95.450	39.771
Deployment	5.050	2.104

Category	Hours	% Percent
Mob Ashore	58.000	24.167
Transit to Prospect	32.400	13.500
DownTime	6.583	2.743
Source	5.583	2.326
Deployment	5.583	2.326
Vessel	1.000	0.417
Acquisition	124.233	51.764
Prime	29.917	12.465
Receiver Deployment/Recovery	94.317	39.299
Free Fall OBS	94.317	39.299
Receiver Deployment	40.250	16.771
Receiver Recovery	54.067	22.528
Demobilisation	2.400	1.000
Recovery	2.400	1.000
Chargeable Standby	11.333	4.722
Tests	5.600	2.333
Transit	5.733	2.389
Total	240.000	

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	165 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accept Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	0.00	85.60	85.60	85.60
Combined	0.00	85.60	85.60	85.60

Production Listing (Accept Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

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

Production Totals (points)

OBS_Deployment

Accepted	Day	Week	Month	Project
Deployment	12	62	62	62

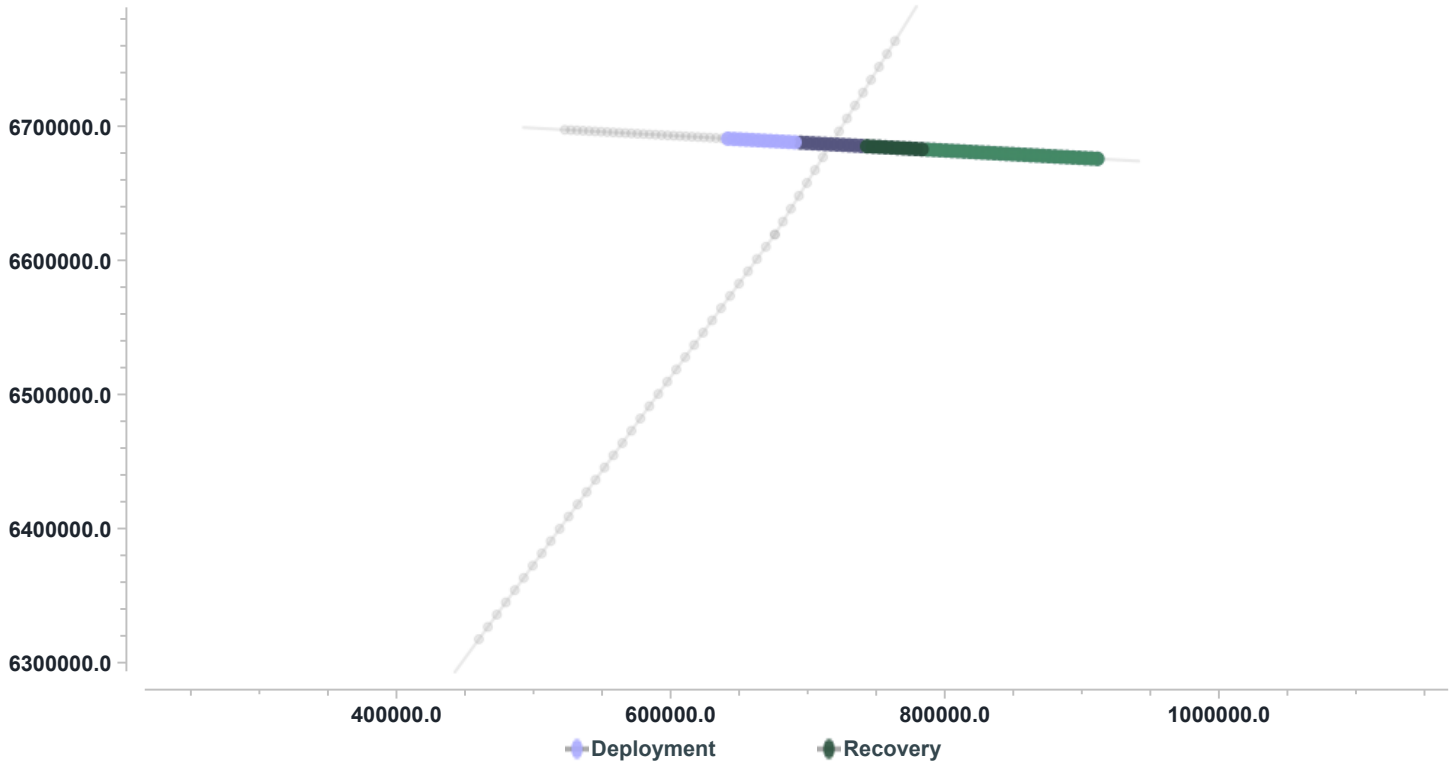
Accepted	Day	Week	Month	Project
Recovery	10	39	39	39

Production Listing (points)

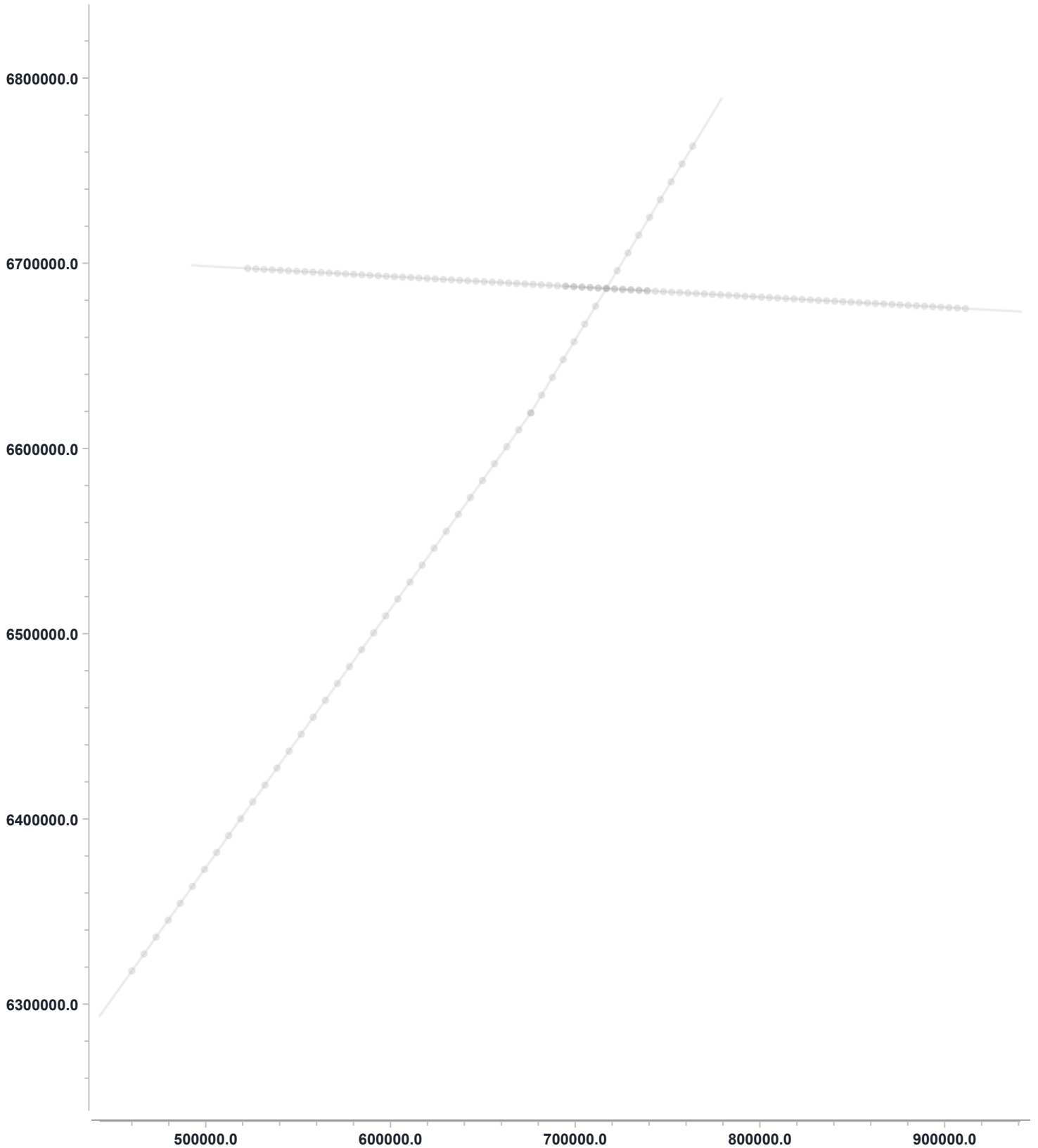
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
5	PFe-21	0	0	Recovery	1	N/A	Complete
5	PFe-20	0	0	Recovery	1	0.001	Complete
5	PFe-19	0	0	Recovery	1	0.001	Complete
5	PFe-18	0	0	Recovery	1	0.001	Complete
5	PFe-17	0	0	Recovery	1	0.001	Complete
5	PFe-16	0	0	Recovery	1	0.001	Complete
5	PFe-15	0	0	Recovery	1	0.001	Complete
5	PFe-14	0	0	Recovery	1	0.001	Complete
5	PFe-13	0	0	Recovery	1	0.001	Complete
5	PFe-12	0	0	Recovery	1	0.001	Complete
6	PFW-45	0	0	Deployment	1	0.003	Complete
6	PFW-44	0	0	Deployment	1	0.002	Complete
6	PFW-43	0	0	Deployment	1	0.002	Complete
6	PFW-42	0	0	Deployment	1	0.002	Complete
6	PFW-41	0	0	Deployment	1	0.002	Complete
6	PFW-40	0	0	Deployment	1	0.003	Complete
6	PFW-39	0	0	Deployment	1	0.002	Incomplete
6	PFW-38	0	0	Deployment	1	0.002	Complete
6	PFW-37	0	0	Deployment	1	0.003	Complete
6	PFW-36	0	0	Deployment	1	0.002	Complete
6	PFW-35	0	0	Deployment	1	0.002	Incomplete
6	PFW-34	0	0	Deployment	1	0.002	Incomplete
Total					22		

Iceland: Accpt
8/2/2024 - 8/11/2024
OBS_Deployment



Iceland: Accpt
8/11/2024 - 8/11/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 11 Aug

8/11/2024

Page 6

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 11 Aug

Technical Staff On-board the Langseth

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 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
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 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:15	13:15	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			











HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	1	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Daily Science Report

8/11/2024

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Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	1	1	1	1.000	
 Meetings	Mtgs	1	9	11	11	8.000	
 Daily Ops Meeting	DOps	1	7	7	7	7.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	2	2	2		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/12/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Mon 12 Aug

The day started with OBS deployment PFw-33.
 All OBS were deployed by 17:12.
 The vessel then started to deploy the Magnetometer, PAM and Source arrays.
 All gear was deployed, tested and the line started at 22:34.

The magnetometer data still looks a little noisy. We are looking in to this.

At end of day the vessel was acquiring PFw.

Daily Comment Summaries - Plan for Tomorrow

Mon 12 Aug

Continue to acquire data along PFw.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	17:12	Receiver Deployment	AC_RDR_FF_RD	17.200
17:12	20:54	Deployment	MB_DP	3.700
Deployment: Source, PAM, Maggie				
20:54	22:34	Tests	SB_TE	1.667
Testing Source while running in to line.				
22:34	24:00	Prime	AC_PP	1.433
Seq: 3 MGL2408003OPFw1				

Timing Day by Day (Marcus G Langseth, Source Only)

12-Aug	Hours	% Percent
Acquisition	18.633	77.639
Prime	1.433	5.972
Receiver Deployment/Recovery	17.200	71.667
Free Fall OBS	17.200	71.667
Receiver Deployment	17.200	71.667
Chargeable Standby	1.667	6.944
Tests	1.667	6.944
Mobilisation	3.700	15.417
Deployment	3.700	15.417
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	99.150	37.557
Deployment	8.750	3.314
Mob Ashore	58.000	21.970
Transit to Prospect	32.400	12.273
DownTime	6.583	2.494
Source	5.583	2.115
Deployment	5.583	2.115
Vessel	1.000	0.379
Acquisition	142.867	54.116
Prime	31.350	11.875
Receiver Deployment/Recovery	111.517	42.241
Free Fall OBS	111.517	42.241
Receiver Deployment	57.450	21.761
Receiver Recovery	54.067	20.480
Demobilisation	2.400	0.909
Recovery	2.400	0.909
Chargeable Standby	13.000	4.924
Tests	7.267	2.753
Transit	5.733	2.172
Total	264.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

8/12/2024

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Production Totals (Accept Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	13.05	13.05	269.85	269.85
Combined	13.05	13.05	269.85	269.85

Production Listing (Accept Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
3	P-Fw	93.2	985	1071	Prime	13.05	4.907	Midnight	Part
Total						13.05			

Production Totals (points)

OBS_Deployment

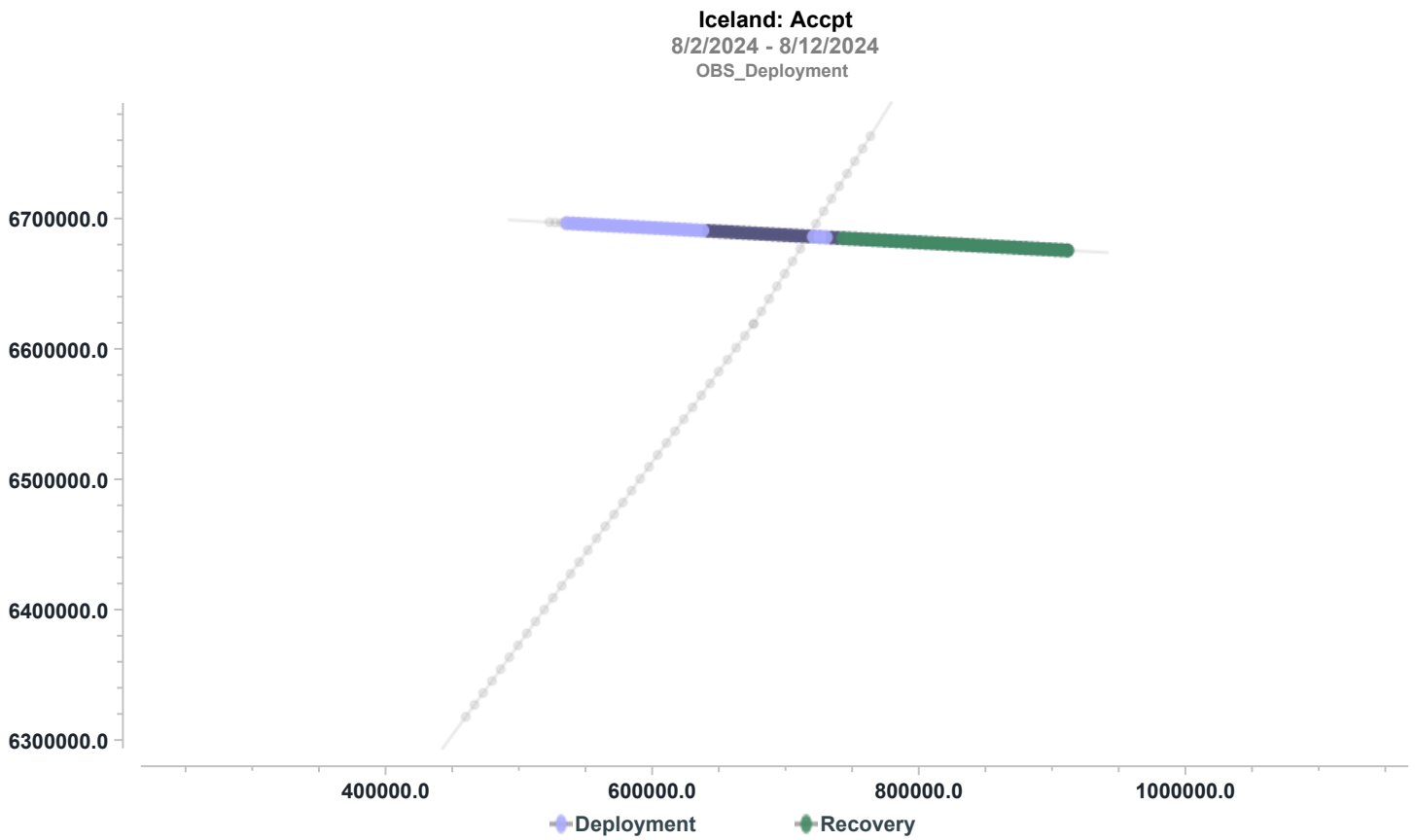
Accepted	Day	Week	Month	Project
Deployment	27	27	89	89
Recovery	0	0	39	39

Production Listing (points)

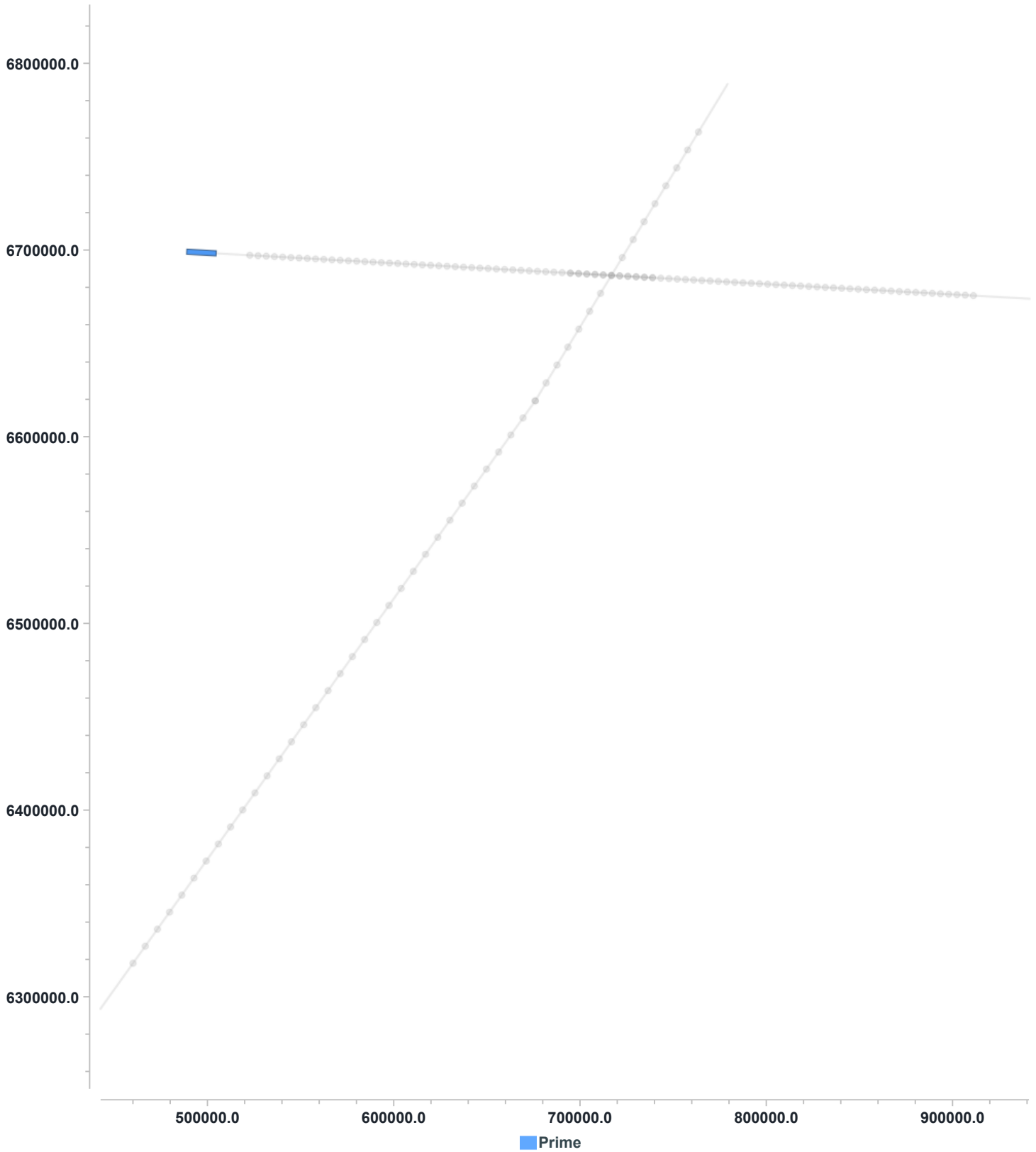
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
7	PFw-33	0	0	Deployment	1	0.002	Complete
7	PFw-32	0	0	Deployment	1	0.001	Complete
7	PFw-31	0	0	Deployment	1	0.002	Complete
7	PFw-30	0	0	Deployment	1	0.002	Complete
7	PFw-29	0	0	Deployment	1	0.002	Complete
7	PFw-28	0	0	Deployment	1	0.002	Complete
7	PFw-27	0	0	Deployment	1	0.002	Complete
7	PFw-26	0	0	Deployment	1	0.002	Complete
7	PFw-25	0	0	Deployment	1	0.002	Complete
7	PFw-24	0	0	Deployment	1	0.002	Complete
7	PFw-23	0	0	Deployment	1	0.002	Complete
7	PFw-22	0	0	Deployment	1	0.003	Complete
7	PFw-21	0	0	Deployment	1	0.002	Complete
7	PFw-20	0	0	Deployment	1	0.002	Complete
7	PFw-19	0	0	Deployment	1	0.002	Complete
7	PFw-18	0	0	Deployment	1	0.002	Complete
7	PFw-17	0	0	Deployment	1	0.002	Complete
7	PFw-16	0	0	Deployment	1	0.002	Complete
7	PFw-15	0	0	Deployment	1	0.002	Complete
7	PFw-14	0	0	Deployment	1	0.002	Complete
7	PFw-13	0	0	Deployment	1	0.002	Incomplete
7	PFw-12	0	0	Deployment	1	0.002	Complete
7	PFw-11	0	0	Deployment	1	0.002	Complete
7	PFw-10	0	0	Deployment	1	0.002	Complete
7	PFe-9	0	0	Deployment	1	0.002	Complete
7	PFe-8	0	0	Deployment	1	0.003	Complete
7	PFe-7	0	0	Deployment	1	0.002	Complete

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					27		



Iceland: Accpt
8/12/2024 - 8/12/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 12 Aug

8/12/2024

Page 6

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 12 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth









Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
-------	-----	----------	------

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	
Fire Drill	Fi	0	0	1	1	1.000	
MOB Drill	MOB	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Meetings	Mtgs	0	0	11	11	8.000	
 Daily Ops Meeting	DOps	0	0	7	7	7.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	2	2		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/13/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Tue 13 Aug

At start of day the vessel was online and acquiring data on PFW.
 It was noticed just after noon that there appeared to be a double pop on array 2 gun 1.
 This is where the gun shoots and then at a constant time later the gun pops again.
 It appeared to happen at 0.89-.091 seconds after the shot. The gun was at a reduced volume and pressure as it was too quick to fill.
 The data for Seq 2 (Line PFe) was reviewed and the double pop was also there. After a noise analysis there does not appear to be any detrimental affects on the data.
 Array 2 gun 1 was left disabled and the vessel continued down the line.

At end of day the vessel was a few hours away from completing line PFW.

Daily Comment Summaries - Plan for Tomorrow

Tue 13 Aug

Finish line PFW, recover guns and start OBS recovery.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Prime	AC_PP	24.000
Seq: 3 MGL2408003OPFW1				

Timing Day by Day (Marcus G Langseth, Source Only)

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

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	99.150	34.427
Deployment	8.750	3.038
Mob Ashore	58.000	20.139
Transit to Prospect	32.400	11.250
DownTime	6.583	2.286
Source	5.583	1.939
Deployment	5.583	1.939
Vessel	1.000	0.347
Acquisition	166.867	57.940
Prime	55.350	19.219
Receiver Deployment/Recovery	111.517	38.721
Free Fall OBS	111.517	38.721

Category	Hours	% Percent
Receiver Deployment	57.450	19.948
Receiver Recovery	54.067	18.773
Demobilisation	2.400	0.833
Recovery	2.400	0.833
Chargeable Standby	13.000	4.514
Tests	7.267	2.523
Transit	5.733	1.991
Total	288.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	218.55	231.60	488.40	488.40
Combined	218.55	231.60	488.40	488.40

Production Listing (Accpt Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
3	P-Fw	93.2	1072	2528	Prime	218.55	4.907	Midnight	Part
Total						218.55			

Production Totals (points)

OBS_Deployment

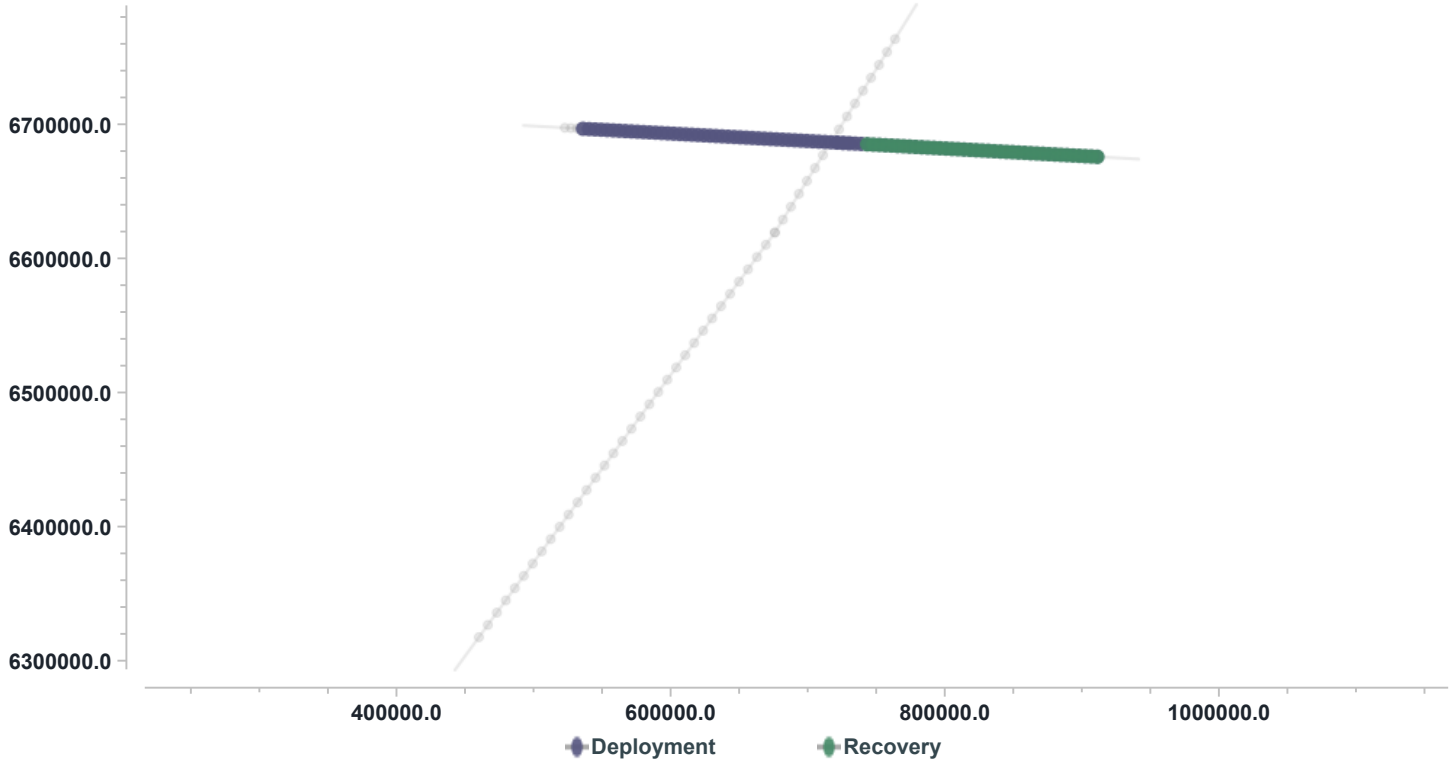
Accepted	Day	Week	Month	Project
Deployment	0	27	89	89
Recovery	0	0	39	39

Production Listing (points)

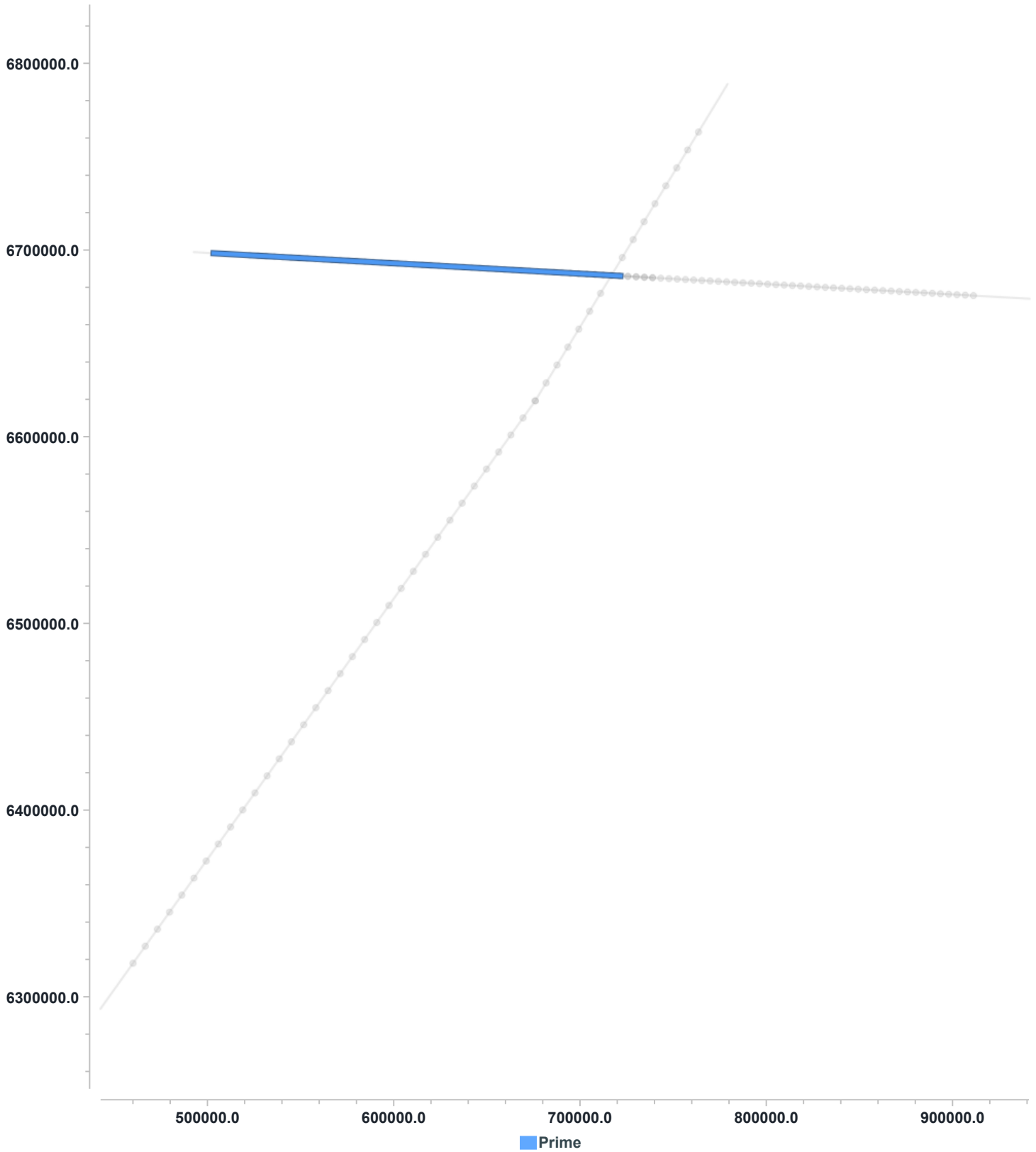
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

Iceland: Accpt
8/2/2024 - 8/13/2024
OBS_Deployment



Iceland: Accpt
8/13/2024 - 8/13/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 13 Aug

8/13/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 13 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth









Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
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HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	
Fire Drill	Fi	0	0	1	1	1.000	
MOB Drill	MOB	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Meetings	Mtgs	0	0	11	11	8.000	
 Daily Ops Meeting	DOps	0	0	7	7	7.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	2	2		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/14/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Wed 14 Aug

At start of day the vessel was online acquiring data on line PFw.
 At 03:46 we started to recover all the gear in the water.
 OBS recovery started at 08:05 and continued throughout the day.
 The weather has been bumpy and the teams are working safe on deck.

During the day the uncontaminated seawater system was off while the chief engineer trouble shot some intern vessel piping.
 After dinner the chief and team had this sorted out and the uncontaminated seawater system was turned back on.

While the source is on deck the team have been trouble shooting Array 1 gun 2 and array 2 gun 1 along with the hydrophones.

The Tailbuoy is just about ready to deploy. The team has been preparing the 4dx and posnet gps beacons. The AIS was tested and is ready.

We powered up the streamer and we confirmed we can supply voltage to the tailbuoy interface box.

At end of day the vessel was recovering OBS.

Daily Comment Summaries - Plan for Tomorrow

Wed 14 Aug

Continue to recover OBS.

Timing Diary (Marcus G Langseth, Source Only)



Start	End	Category	Code	Duration (hrs)
00:00	03:46	Prime	AC_PP	3.767
Seq: 3 MGL2408003OPFw1				
03:46	06:22	Recovery	DM_RC	2.600
Recovery: Source, Maggie, PAM				
06:22	07:47	Transit	SB_TRT	1.417
Transit to OBS recovery				
07:47	24:00	Receiver Recovery	AC_RDR_FF_RRec	16.217

Timing Day by Day (Marcus G Langseth, Source Only)

14-Aug	Hours	% Percent
Acquisition	19.983	83.264
Prime	3.767	15.694
Receiver Deployment/Recovery	16.217	67.569
Free Fall OBS	16.217	67.569
Receiver Recovery	16.217	67.569
Chargeable Standby	1.417	5.903
Transit	1.417	5.903

8/14/2024

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14-Aug	Hours	% Percent
Demobilisation	2.600	10.833
Recovery	2.600	10.833
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	99.150	31.779
Deployment	8.750	2.804
Mob Ashore	58.000	18.590
Transit to Prospect	32.400	10.385
DownTime	6.583	2.110
Source	5.583	1.790
Deployment	5.583	1.790
Vessel	1.000	0.321
Acquisition	186.850	59.888
Prime	59.117	18.948
Receiver Deployment/Recovery	127.733	40.940
Free Fall OBS	127.733	40.940
Receiver Deployment	57.450	18.413
Receiver Recovery	70.283	22.527
Demobilisation	5.000	1.603
Recovery	5.000	1.603
Chargeable Standby	14.417	4.621
Tests	7.267	2.329
Transit	7.150	2.292
Total	312.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m

8/14/2024

Page 3

MCS 15000m 50m					
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	33.90	265.50	522.30	522.30
Combined	33.90	265.50	522.30	522.30

Production Listing (Accpt Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
3	P-Fw	93.2	2529	2754	Prime	33.90	4.907	Complete	Complete
Total						33.90			

Production Totals (points)

OBS_Deployment

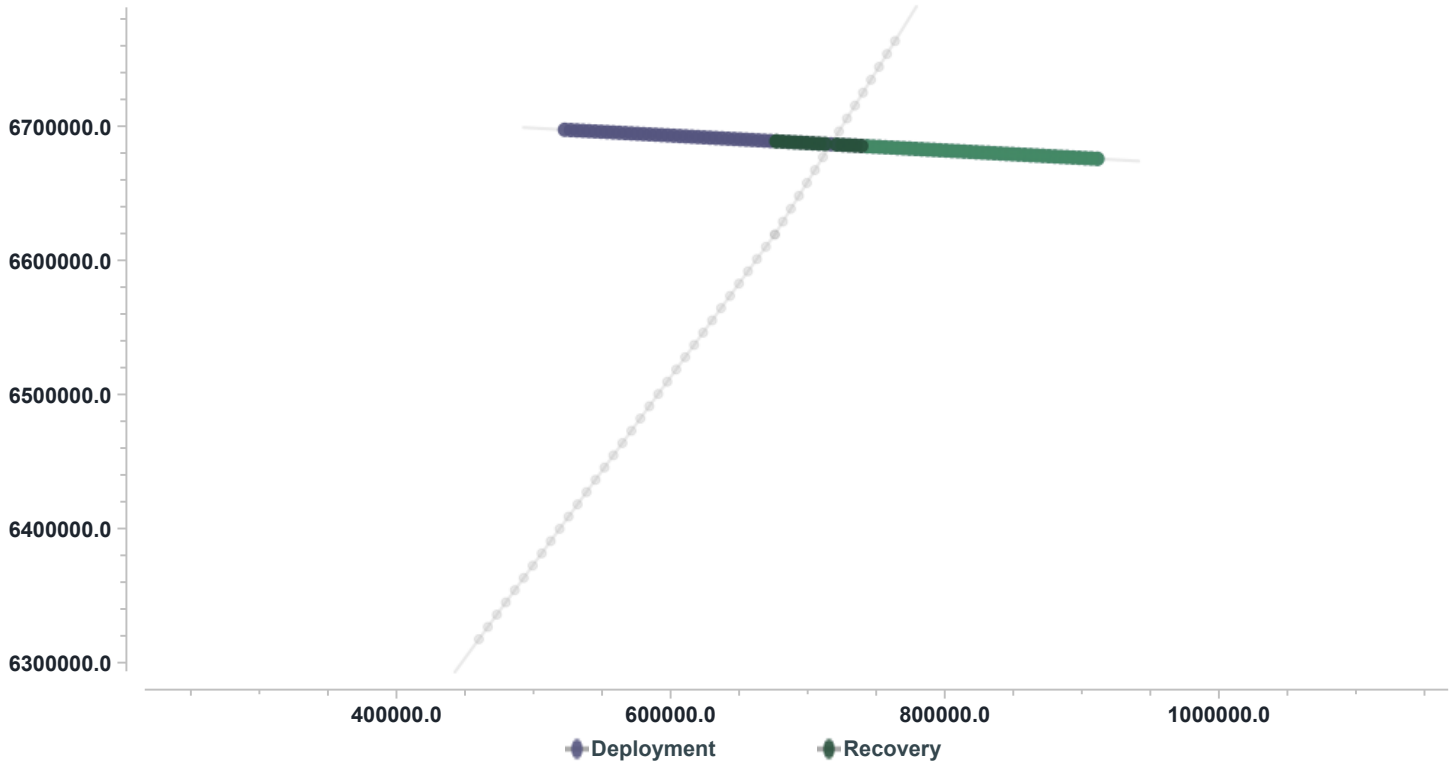
Accepted	Day	Week	Month	Project
Deployment	0	27	89	89
Recovery	15	15	54	54

Production Listing (points)

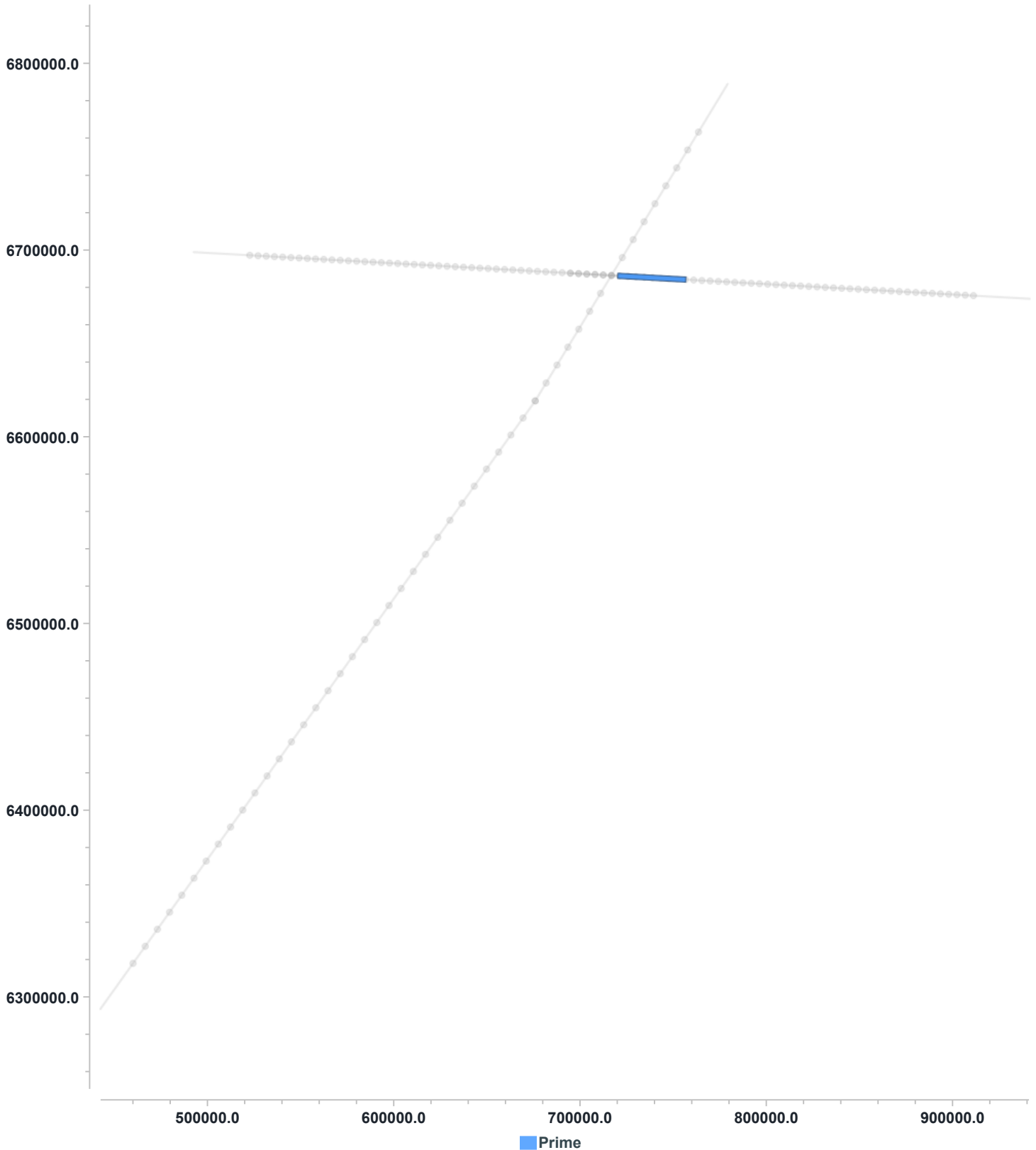
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
8	PFe-11	0	0	Recovery	1	0.002	Complete
8	PFe-10	0	0	Recovery	1	0.001	Complete
8	PFe-9	0	0	Recovery	1	0.001	Complete
8	PFe-8	0	0	Recovery	1	0.001	Complete
8	PFe-7	0	0	Recovery	1	0.001	Complete
8	PFe-5	0	0	Recovery	1	0.001	Complete
8	PFe-4	0	0	Recovery	1	0.001	Complete
8	PFe-3	0	0	Recovery	1	0.001	Complete
8	PFe-2	0	0	Recovery	1	0.002	Complete
8	PFe-1	0	0	Recovery	1	0.001	Complete
8	PFw-45	0	0	Recovery	1	0.001	Complete
8	PFw-44	0	0	Recovery	1	0.001	Complete
8	PFw-43	0	0	Recovery	1	0.001	Complete
8	PFw-42	0	0	Recovery	1	0.001	Complete
8	PFw-42	0	0	Recovery	1	N/A	Complete
Total					15		

Iceland: Accpt
8/2/2024 - 8/14/2024
OBS_Deployment



Iceland: Acqpt
8/14/2024 - 8/14/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 14 Aug

8/14/2024

Page 6

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 14 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
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 Tomasz Kranz - Contract Source Mechanic




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 Fernando Diaz - RPS PSO

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Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
10:15	11:15	 Fire Team Training	Trng_FTT
HSE - Fire Team Training			
12:00	13:00	 Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			
15:10	16:10	 Fire Team Training	Trng_FTT
HSE - Fire Team Training			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	
Fire Drill	Fi	0	0	1	1	1.000	
MOB Drill	MOB	0	0	1	1	1.000	
Meetings	Mtgs	1	3	14	14	11.000	
Daily Ops Meeting	DOps	1	3	10	10	10.000	
Start-up Meeting	StUp	0	0	1	1	1.000	
Toolbox Meetings	Tbox	0	0	2	2		
Vessel HSE meeting	VHse	0	0	1	1		
Training	Trng	2	2	4	4	4.000	
Fire Team Training	FTT	2	2	2	2	2.000	
Other Training	OT	0	0	1	1	1.000	
Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/15/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Thu 15 Aug

A full day of OBS recovery.
 A start of day the team was recovering OBS PFW-41.
 At end of day the team was recovering OBS PFW-22.

Daily Comment Summaries - Plan for Tomorrow

Thu 15 Aug

Continue to recover OBS.
 OBS operations should be completed after dinner time.
 Weather is moving in late in the day on the 16th.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Receiver Recovery	AC_RDR_FF_RRec	24.000

Timing Day by Day (Marcus G Langseth, Source Only)

15-Aug	Hours	% Percent
Acquisition	24.000	100.000
Receiver Deployment/Recovery	24.000	100.000
Free Fall OBS	24.000	100.000
Receiver Recovery	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	99.150	29.509
Deployment	8.750	2.604
Mob Ashore	58.000	17.262
Transit to Prospect	32.400	9.643
DownTime	6.583	1.959
Source	5.583	1.662
Deployment	5.583	1.662
Vessel	1.000	0.298
Acquisition	210.850	62.753
Prime	59.117	17.594
Receiver Deployment/Recovery	151.733	45.159
Free Fall OBS	151.733	45.159
Receiver Deployment	57.450	17.098
Receiver Recovery	94.283	28.061

Category	Hours	% Percent
Demobilisation	5.000	1.488
Recovery	5.000	1.488
Chargeable Standby	14.417	4.291
Tests	7.267	2.163
Transit	7.150	2.128
Total	336.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		

Comment
Source Only Shot in Time Mode: 60 seconds per shot

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	0	265.50	522.30	522.30
Combined	0	265.50	522.30	522.30

Production Listing (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

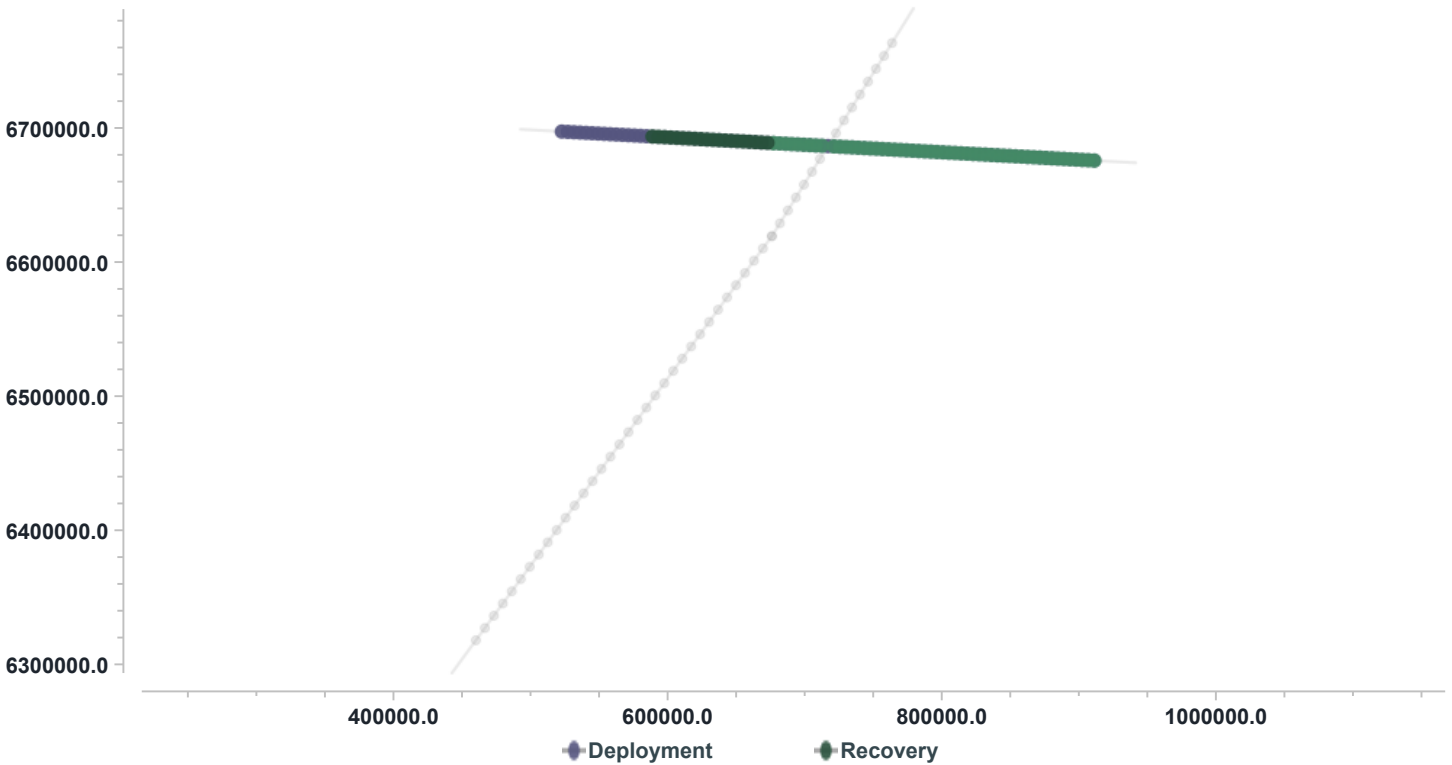
Accepted	Day	Week	Month	Project
Deployment	0	27	89	89
Recovery	20	35	74	74

Production Listing (points)

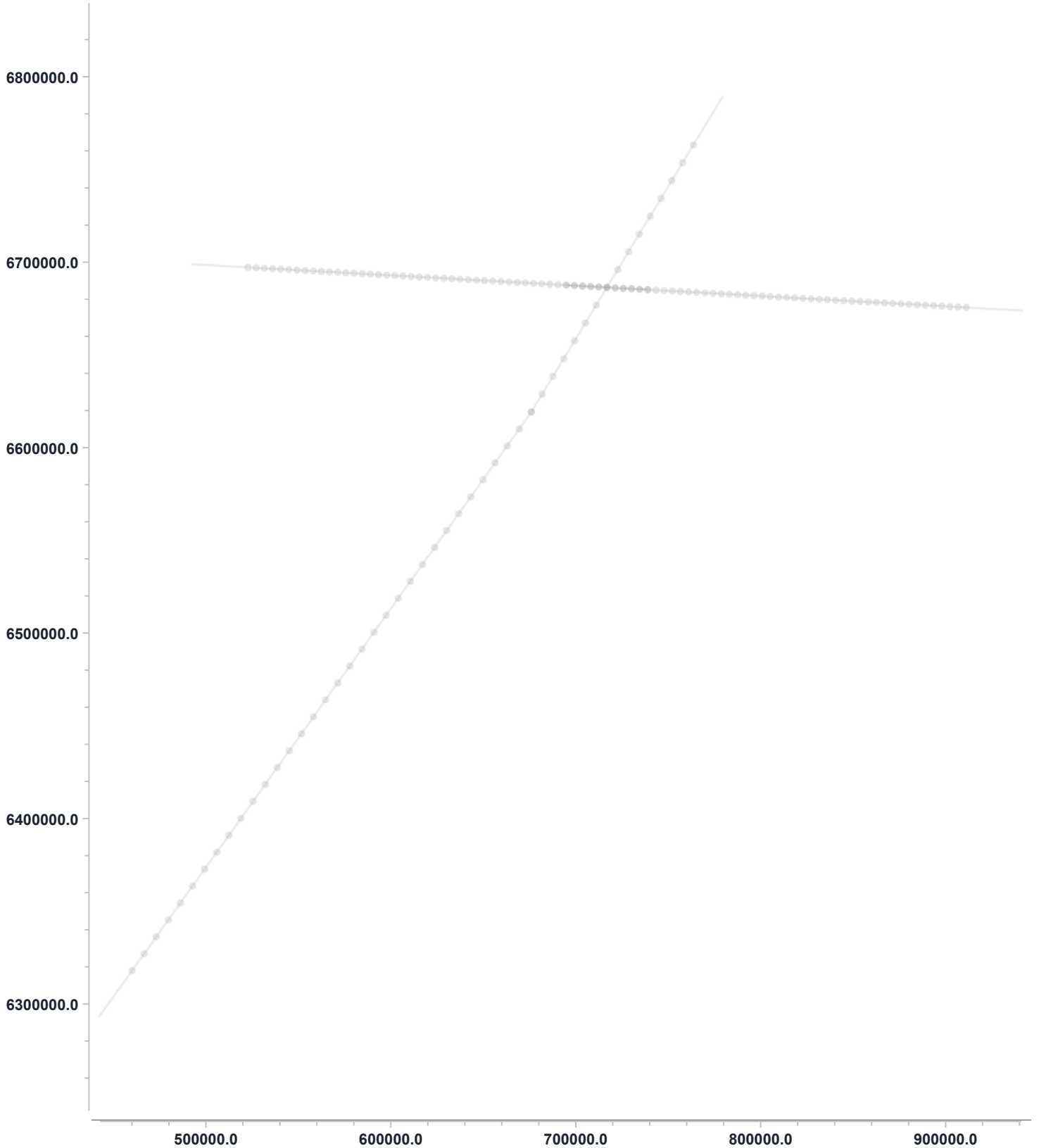
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
9	PFw-41	0	0	Recovery	1	0.078	Complete
9	PFw-40	0	0	Recovery	1	0.001	Complete
9	PFw-39	0	0	Recovery	1	0.001	Complete
9	PFw-38	0	0	Recovery	1	0.001	Complete
9	PFw-37	0	0	Recovery	1	0.001	Complete
9	PFw-36	0	0	Recovery	1	0.001	Complete
9	PFw-35	0	0	Recovery	1	0.001	Complete
9	PFw-34	0	0	Recovery	1	0.001	Complete
9	PFw-33	0	0	Recovery	1	0.001	Complete
9	PFw-32	0	0	Recovery	1	0.001	Complete
9	PFw-31	0	0	Recovery	1	0.001	Complete
9	PFw-30	0	0	Recovery	1	0.001	Complete
9	PFw-29	0	0	Recovery	1	0.001	Complete
9	PFw-28	0	0	Recovery	1	0.001	Complete
9	PFw-27	0	0	Recovery	1	0.001	Complete
9	PFw-26	0	0	Recovery	1	0.001	Complete
9	PFw-25	0	0	Recovery	1	0.001	Complete
9	PFw-24	0	0	Recovery	1	0.001	Complete
9	PFw-23	0	0	Recovery	1	0.001	Complete
9	PFw-22	0	0	Recovery	1	0.001	Complete
Total					20		

Iceland: Accpt
8/2/2024 - 8/15/2024
OBS_Deployment



Iceland: Accpt
8/15/2024 - 8/15/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 15 Aug

8/15/2024

Page 5

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 15 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	4	15	15	12.000	
 Daily Ops Meeting	DOps	1	4	11	11	11.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	2	2		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	2	4	4	4.000	
 Fire Team Training	FTT	0	2	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/16/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Fri 16 Aug

The day started with the vessel recovering OBS PFW-21. The teams were watching the weather all day as the weather forecast predicted it to build and peak at midnight. After OBS PFW-09 was on deck the weather was assessed and it was decided to stand down for weather until this front passes. The captain reported the vessel was currently seeing Beaufort Scale force 8. The teams secured the decks for the rough weather period and made plans to stay in the vessel for the time being. At end of day the vessel was standing by near OBS PFW-08 waiting for the weather to come down.

Daily Comment Summaries - Plan for Tomorrow

Fri 16 Aug

Recover the remaining OBSs on line PFW and then transit to the north end of PA.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	19:25	Receiver Recovery	AC_RDR_FF_RRec	19.417
19:25	24:00	Weather	SB_WX	4.583
Down due to weather.				

Timing Day by Day (Marcus G Langseth, Source Only)

16-Aug	Hours	% Percent
Acquisition	19.417	80.903
Receiver Deployment/Recovery	19.417	80.903
Free Fall OBS	19.417	80.903
Receiver Recovery	19.417	80.903
Chargeable Standby	4.583	19.097
Weather	4.583	19.097
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	99.150	27.542
Deployment	8.750	2.431
Mob Ashore	58.000	16.111
Transit to Prospect	32.400	9.000
DownTime	6.583	1.829
Source	5.583	1.551
Deployment	5.583	1.551
Vessel	1.000	0.278
Acquisition	230.267	63.963

Category	Hours	% Percent
Prime	59.117	16.421
Receiver Deployment/Recovery	171.150	47.542
Free Fall OBS	171.150	47.542
Receiver Deployment	57.450	15.958
Receiver Recovery	113.700	31.583
Demobilisation	5.000	1.389
Recovery	5.000	1.389
Chargeable Standby	19.000	5.278
Tests	7.267	2.019
Transit	7.150	1.986
Weather	4.583	1.273
Total	360.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	0	265.50	522.30	522.30
Combined	0	265.50	522.30	522.30

Production Listing (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

8/16/2024

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Production Totals (points)

OBS_Deployment

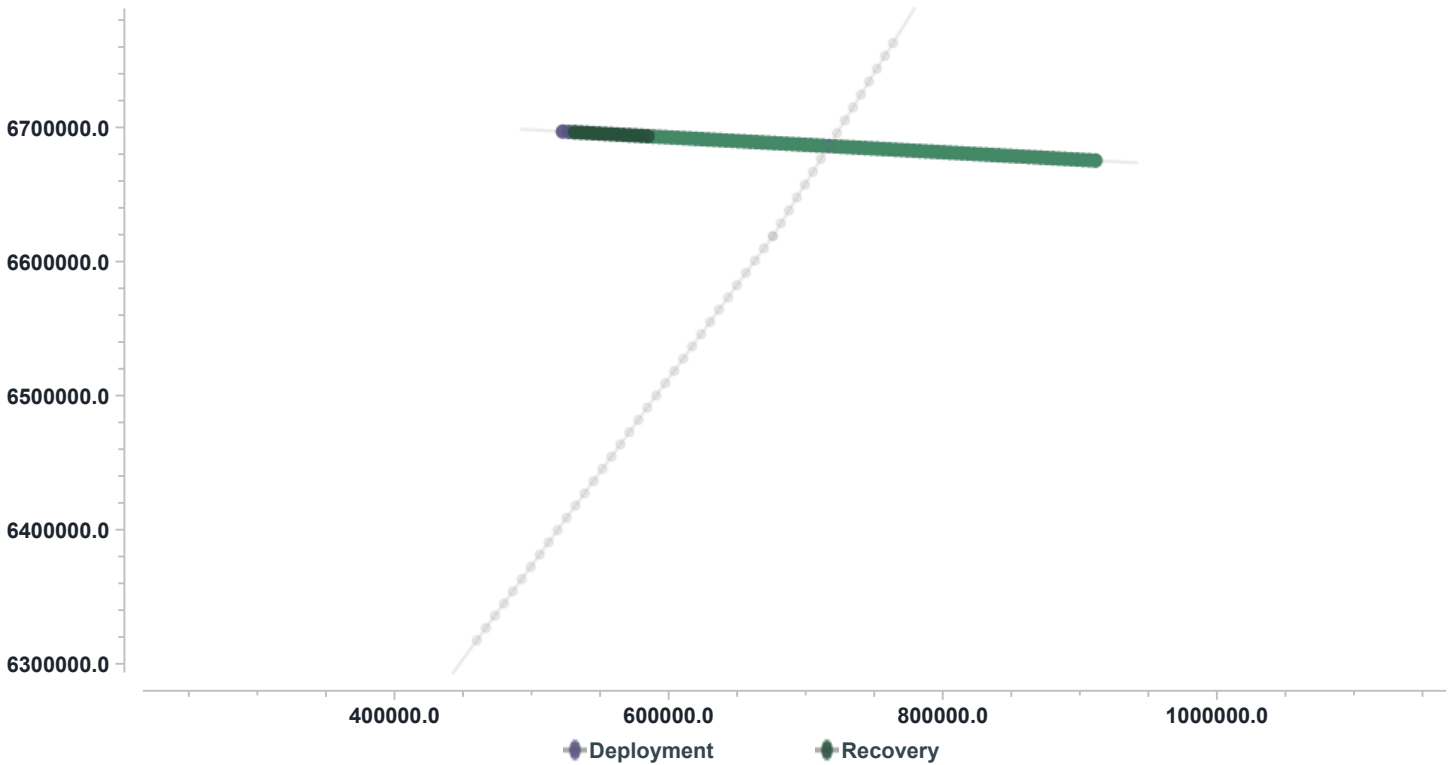
Accepted	Day	Week	Month	Project
Deployment	0	27	89	89
Recovery	13	47	86	86

Production Listing (points)

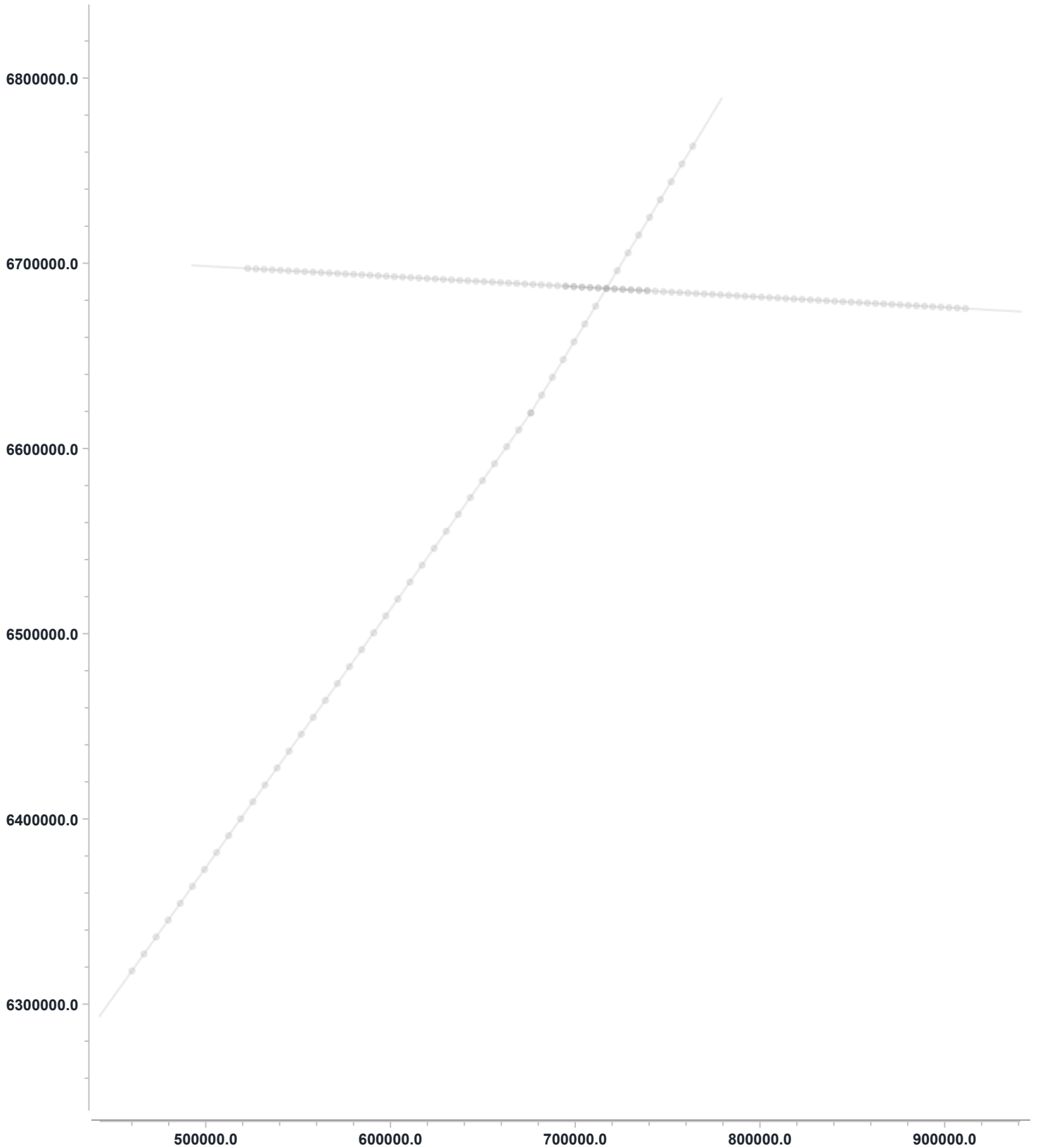
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
10	PFw-21	0	0	Recovery	1	0.001	Complete
10	PFw-20	0	0	Recovery	1	0.001	Complete
10	PFw-19	0	0	Recovery	1	0.001	Complete
10	PFw-18	0	0	Recovery	1	0.001	Complete
10	PFw-17	0	0	Recovery	1	0.001	Complete
10	PFw-16	0	0	Recovery	1	0.001	Complete
10	PFw-15	0	0	Recovery	1	0.001	Complete
10	PFw-14	0	0	Recovery	1	0.001	Complete
10	PFw-13	0	0	Recovery	1	0.001	Complete
10	PFw-12	0	0	Recovery	1	0.001	Complete
10	PFw-11	0	0	Recovery	1	0.001	Complete
10	PFw-10	0	0	Recovery	1	0.001	Complete
10	PFw-9	0	0	Recovery	1	0.001	Complete
Total					13		

Iceland: Accpt
8/2/2024 - 8/16/2024
OBS_Deployment



Iceland: Accpt
8/16/2024 - 8/16/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 16 Aug

8/16/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 16 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

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Cassandra Frey - RPS Lead PSO
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 Sharon Toro - RPS PSO
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 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth

Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

Daily Total Category	Code	Count
Toolbox Meetings	Mtgs_Tbox	1
Meeting to discuss ops in increasing weather		

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	
Fire Drill	Fi	0	0	1	1	1.000	
MOB Drill	MOB	0	0	1	1	1.000	
Meetings	Mtgs	2	6	17	17	13.000	
Daily Ops Meeting	DOps	1	5	12	12	12.000	
Start-up Meeting	StUp	0	0	1	1	1.000	
Toolbox Meetings	Tbox	1	1	3	3		
Vessel HSE meeting	VHse	0	0	1	1		
Training	Trng	0	2	4	4	4.000	
Fire Team Training	FTT	0	2	2	2	2.000	
Other Training	OT	0	0	1	1	1.000	
Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/17/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sat 17 Aug

The vessel was down for weather at the start of the day.
 The weather and sea state were monitored all night, towards breakfast the seas started to come down.
 The vessel moved back in to recovery position for OBS PFW-8.
 Once all teams agreed it was safe to proceed the OBS was release at 8:18 and was on deck at 9:27.
 The last OBS of line PFW was on deck at 10:42 and the vessel started the transit for the first deployment of line PA.
 At end of day the vessel was transiting towards OBS PA-0.

Daily Comment Summaries - Plan for Tomorrow

Sat 17 Aug

Complete transit and start deploying OBS on line P-A.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	08:18	Weather	SB_WX	8.300
Operations stopped due to weather.				
08:18	10:42	Receiver Recovery	AC_RDR_FF_RRec	2.400
10:42	24:00	Transit	SB_TRT	13.300
Transit from Last OBS Recovery on line PFW to First OBS Deployment on Line PA.				

Timing Day by Day (Marcus G Langseth, Source Only)

17-Aug	Hours	% Percent
Acquisition	2.400	10.000
Receiver Deployment/Recovery	2.400	10.000
Free Fall OBS	2.400	10.000
Receiver Recovery	2.400	10.000
Chargeable Standby	21.600	90.000
Transit	13.300	55.417
Weather	8.300	34.583
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	99.150	25.820
Deployment	8.750	2.279
Mob Ashore	58.000	15.104
Transit to Prospect	32.400	8.438
DownTime	6.583	1.714
Source	5.583	1.454

Category	Hours	% Percent
Deployment	5.583	1.454
Vessel	1.000	0.260
Acquisition	232.667	60.590
Prime	59.117	15.395
Receiver Deployment/Recovery	173.550	45.195
Free Fall OBS	173.550	45.195
Receiver Deployment	57.450	14.961
Receiver Recovery	116.100	30.234
Demobilisation	5.000	1.302
Recovery	5.000	1.302
Chargeable Standby	40.600	10.573
Tests	7.267	1.892
Transit	20.450	5.326
Weather	12.883	3.355
Total	384.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	0	265.50	522.30	522.30
Combined	0	265.50	522.30	522.30

Production Listing (Accept Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

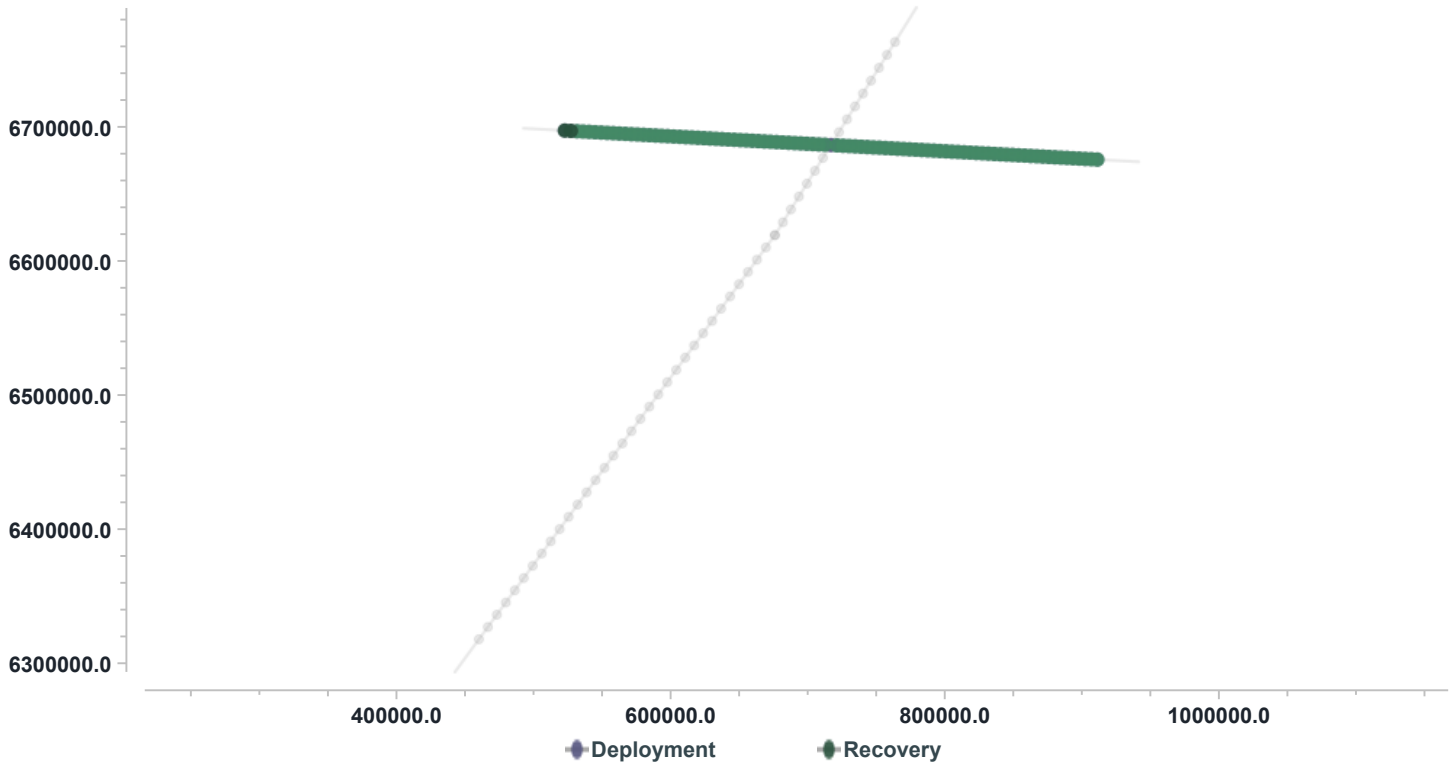
Accepted	Day	Week	Month	Project
Deployment	0	27	89	89
Recovery	2	49	88	88

Production Listing (points)

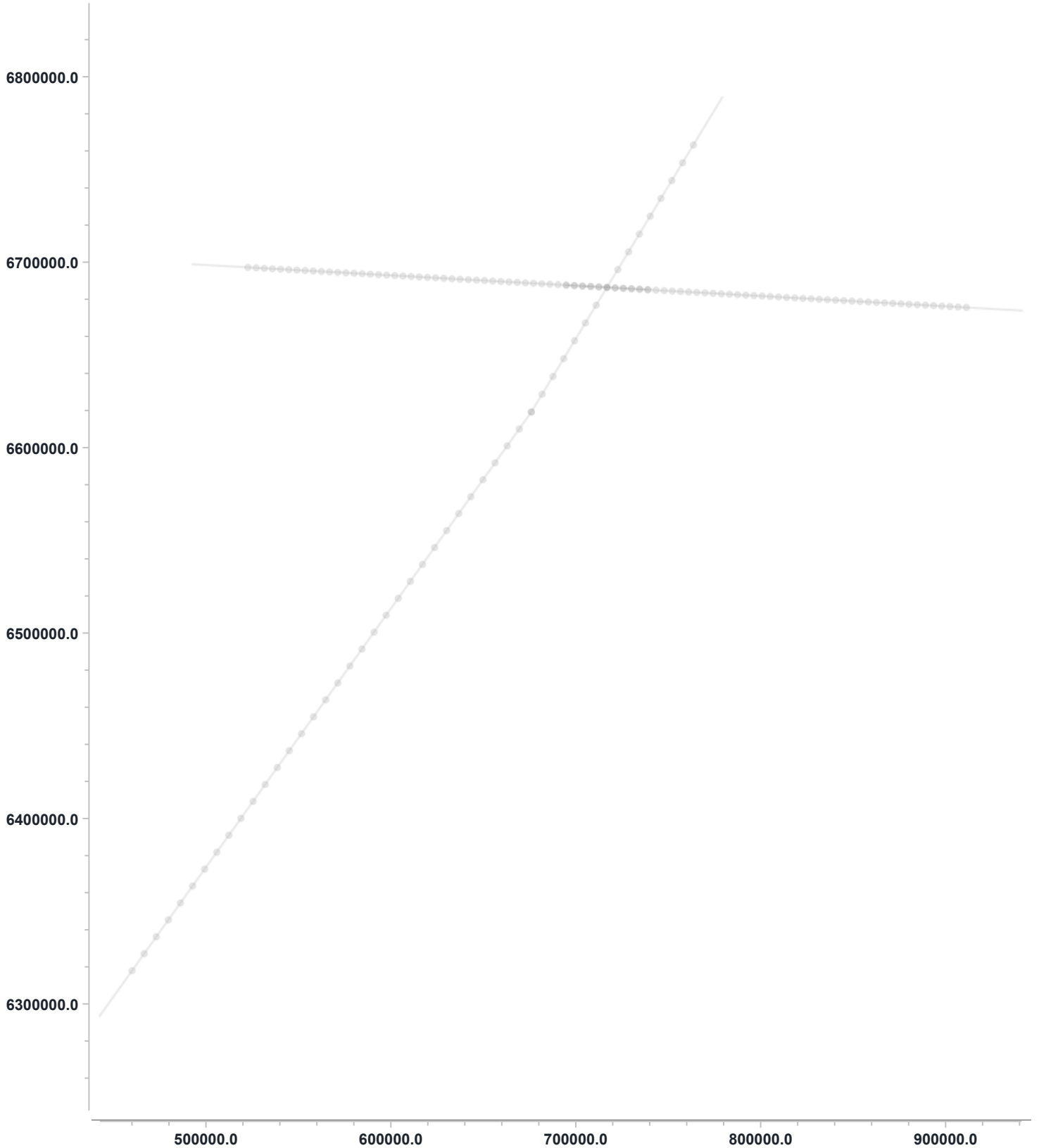
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
11	PFW-8	0	0	Recovery	1	0.001	Complete
11	PFW-7	0	0	Recovery	1	0.001	Complete
Total					2		

Iceland: Accpt
8/2/2024 - 8/17/2024
OBS_Deployment



Iceland: Accpt
8/17/2024 - 8/17/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 17 Aug

8/17/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 17 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
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 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	7	18	18	14.000	
 Daily Ops Meeting	DOps	1	6	13	13	13.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	1	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	2	4	4	4.000	
 Fire Team Training	FTT	0	2	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/18/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sun 18 Aug

At start of day the vessel was just finishing up the transit to OBS PA-0.
 Deployment on line PA started at 02:04.
 At end of day the vessel has just deployed OBS PA-20.

Daily Comment Summaries - Plan for Tomorrow

Sun 18 Aug

Continue with OBS Deployment on line PA

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	01:30	Transit	SB_TRT	1.500
Transit from Last OBS Recovery on line PFW to First OBS Deployment on Line PA.				
01:30	24:00	Receiver Deployment	AC_RDR_FF_RD	22.500

Timing Day by Day (Marcus G Langseth, Source Only)

18-Aug	Hours	% Percent
Acquisition	22.500	93.750
Receiver Deployment/Recovery	22.500	93.750
Free Fall OBS	22.500	93.750
Receiver Deployment	22.500	93.750
Chargeable Standby	1.500	6.250
Transit	1.500	6.250
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	99.150	24.301
Deployment	8.750	2.145
Mob Ashore	58.000	14.216
Transit to Prospect	32.400	7.941
DownTime	6.583	1.614
Source	5.583	1.368
Deployment	5.583	1.368
Vessel	1.000	0.245
Acquisition	255.167	62.541
Prime	59.117	14.489
Receiver Deployment/Recovery	196.050	48.051
Free Fall OBS	196.050	48.051

8/18/2024

Page 2

Category	Hours	% Percent
Receiver Deployment	79.950	19.596
Receiver Recovery	116.100	28.456
Demobilisation	5.000	1.225
Recovery	5.000	1.225
Chargeable Standby	42.100	10.319
Tests	7.267	1.781
Transit	21.950	5.380
Weather	12.883	3.158
Total	408.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accept Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	0	265.50	522.30	522.30
Combined	0	265.50	522.30	522.30

Production Listing (Accept Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

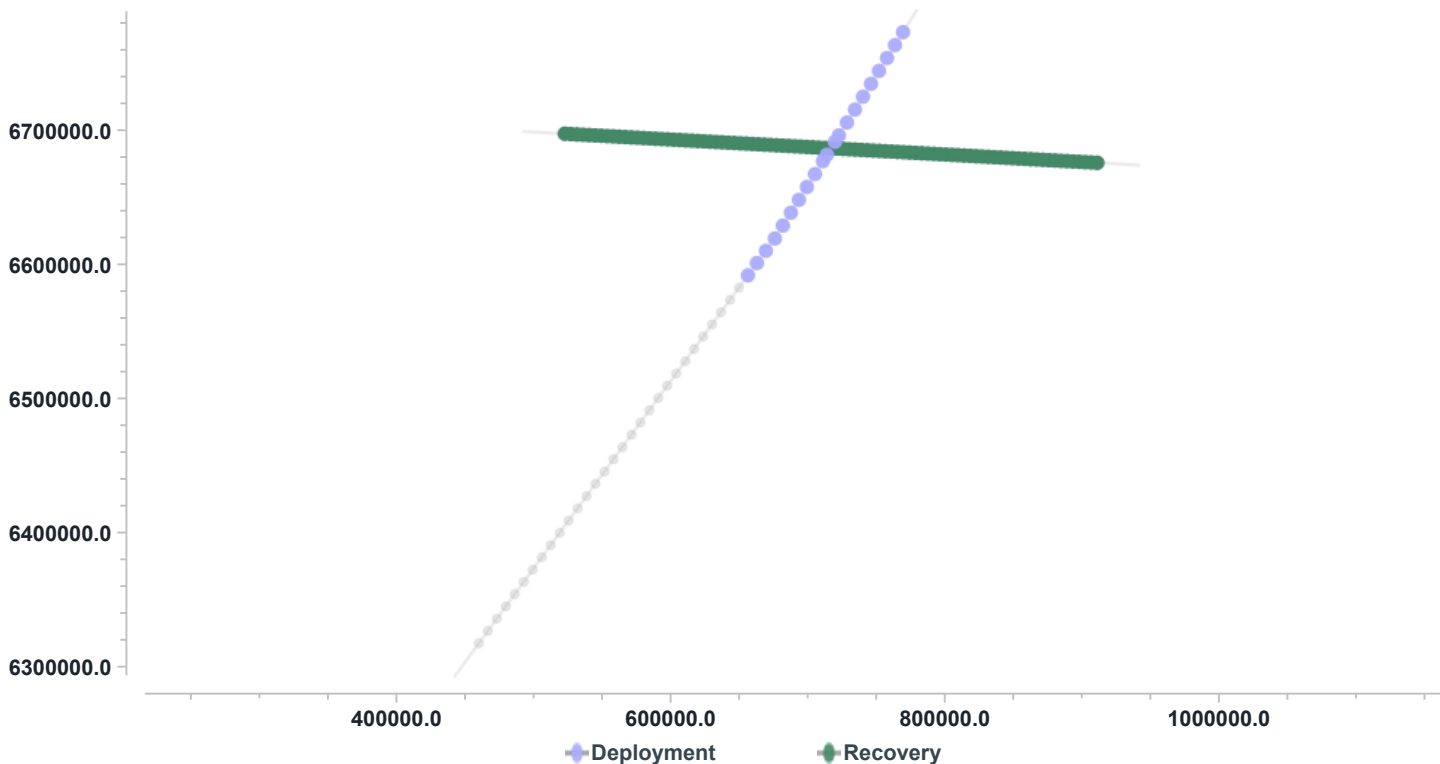
Accepted	Day	Week	Month	Project
Deployment	21	48	110	110
Recovery	0	49	88	88

Production Listing (points)

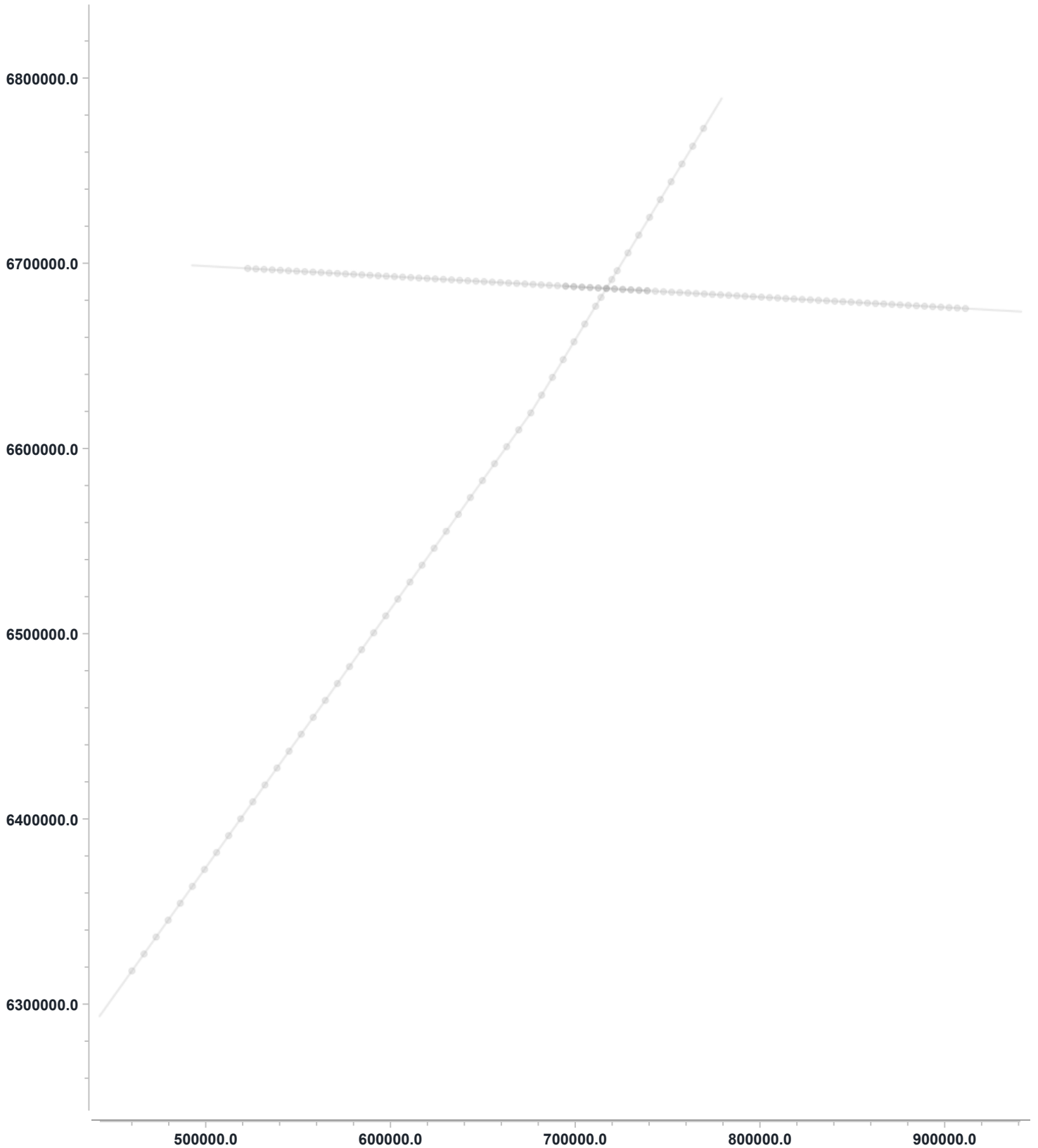
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
12	PA-0	0	0	Deployment	1	0.002	Complete
12	PA-1	0	0	Deployment	1	0.001	Complete
12	PA-2	0	0	Deployment	1	0.001	Complete
12	PA-3	0	0	Deployment	1	0.001	Complete
12	PA-4	0	0	Deployment	1	0.001	Complete
12	PA-5	0	0	Deployment	1	0.001	Complete
12	PA-6	0	0	Deployment	1	0.001	Complete
12	PA-7	0	0	Deployment	1	0.001	Complete
12	PA-8	0	0	Deployment	1	0.001	Complete
12	PA-A	0	0	Deployment	1	0.002	Complete
12	PA-B	0	0	Deployment	1	0.001	Complete
12	PA-10	0	0	Deployment	1	0.002	Complete
12	PA-11	0	0	Deployment	1	0.001	Complete
12	PA-12	0	0	Deployment	1	0.001	Complete
12	PA-13	0	0	Deployment	1	0.001	Complete
12	PA-14	0	0	Deployment	1	0.001	Complete
12	PA-15	0	0	Deployment	1	0.001	Complete
12	PA-16	0	0	Deployment	1	0.001	Complete
12	PA-18	0	0	Deployment	1	0.001	Complete
12	PA-19	0	0	Deployment	1	0.001	Complete
12	PA-20	0	0	Deployment	1	0.001	Complete
Total					21		

Iceland: Accpt
8/2/2024 - 8/18/2024
OBS_Deployment



Iceland: Accpt
8/18/2024 - 8/18/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 18 Aug

8/18/2024

Page 6

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 18 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:15	13:15	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	8	19	19	15.000	
 Daily Ops Meeting	DOps	1	7	14	14	14.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	1	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	2	4	4	4.000	
 Fire Team Training	FTT	0	2	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/19/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Mon 19 Aug

It was an entire day of OBS deployments.
 The day started on OBS-21 and ended with OBS PA-43.

Daily Comment Summaries - Plan for Tomorrow

Mon 19 Aug

Continue with OBS deployments.
 Deploy the Source, Maggie and PAM.
 Start source acquisition on line PA.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Receiver Deployment	AC_RDR_FF_RD	24.000

Timing Day by Day (Marcus G Langseth, Source Only)

19-Aug	Hours	% Percent
Acquisition	24.000	100.000
Receiver Deployment/Recovery	24.000	100.000
Free Fall OBS	24.000	100.000
Receiver Deployment	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
Mobilisation	99.150	22.951
Deployment	8.750	2.025
Mob Ashore	58.000	13.426
Transit to Prospect	32.400	7.500
DownTime	6.583	1.524
Source	5.583	1.292
Deployment	5.583	1.292
Vessel	1.000	0.231
Acquisition	279.167	64.622
Prime	59.117	13.684
Receiver Deployment/Recovery	220.050	50.938
Free Fall OBS	220.050	50.938
Receiver Deployment	103.950	24.063
Receiver Recovery	116.100	26.875
Demobilisation	5.000	1.157

Category	Hours	% Percent
Recovery	5.000	1.157
Chargeable Standby	42.100	9.745
Tests	7.267	1.682
Transit	21.950	5.081
Weather	12.883	2.982
Total	432.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	522.30	522.30
Combined	0	0	522.30	522.30

Production Listing (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

Accepted	Day	Week	Month	Project
Deployment	23	23	133	133
Recovery	0	0	88	88

8/19/2024

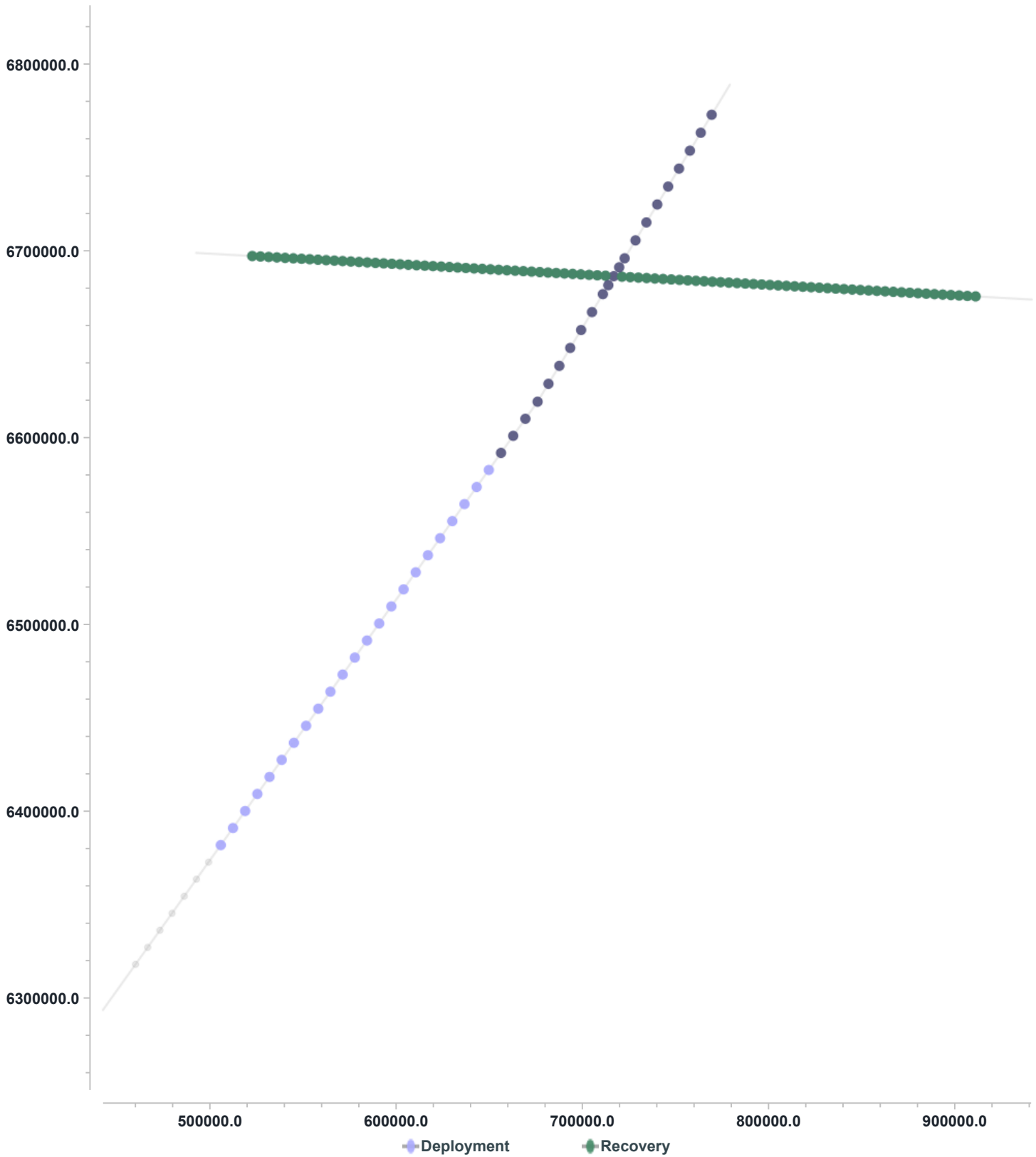
Page 3

Production Listing (points)

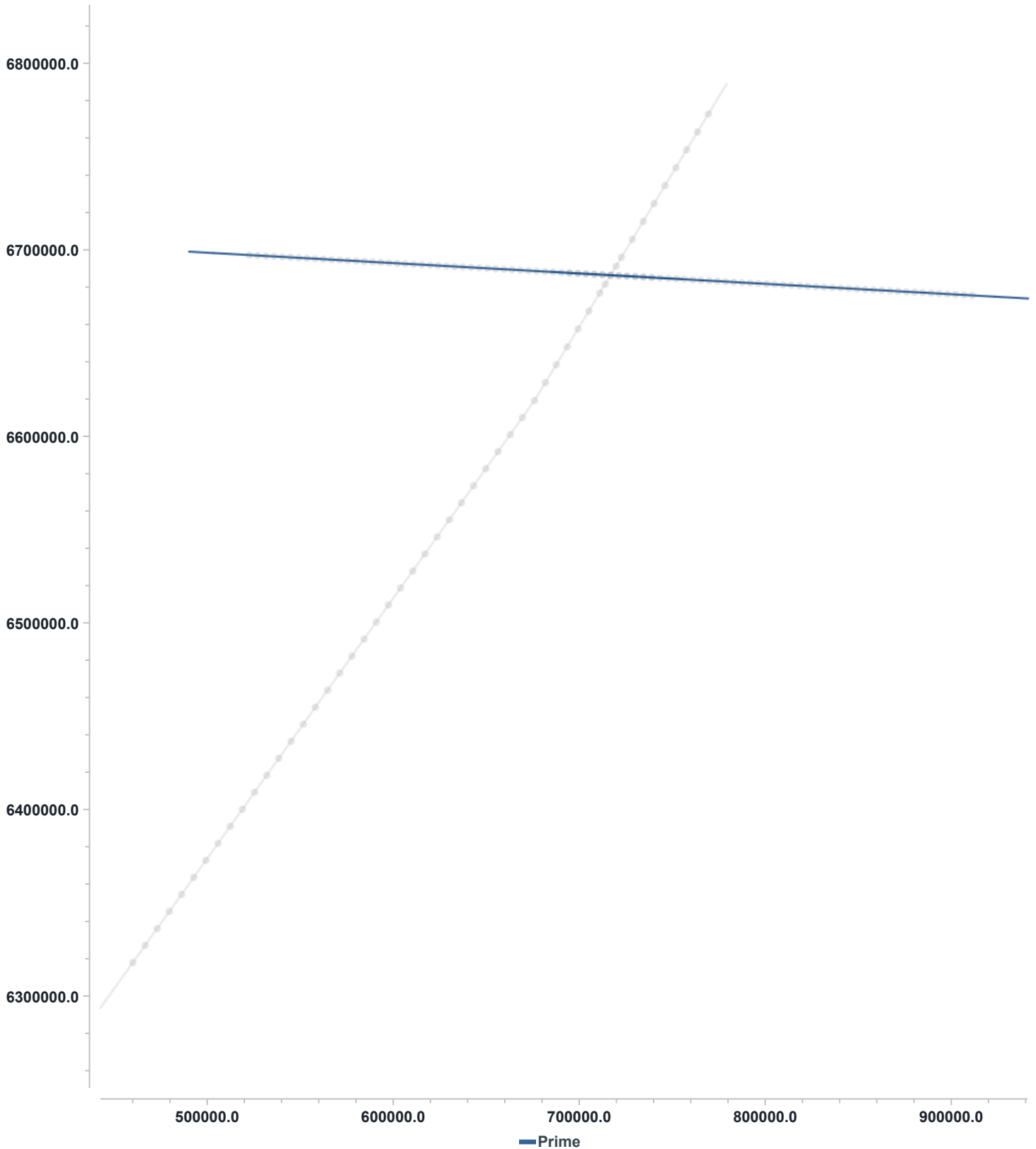
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
13	PA-21	0	0	Deployment	1	0.005	Complete
13	PA-22	0	0	Deployment	1	0.001	Complete
13	PA-23	0	0	Deployment	1	0.001	Complete
13	PA-24	0	0	Deployment	1	0.001	Complete
13	PA-25	0	0	Deployment	1	0.001	Complete
13	PA-26	0	0	Deployment	1	0.001	Complete
13	PA-27	0	0	Deployment	1	0.001	Complete
13	PA-28	0	0	Deployment	1	0.001	Complete
13	PA-29	0	0	Deployment	1	0.001	Complete
13	PA-30	0	0	Deployment	1	0.001	Complete
13	PA-31	0	0	Deployment	1	0.001	Complete
13	PA-32	0	0	Deployment	1	0.001	Complete
13	PA-33	0	0	Deployment	1	0.001	Complete
13	PA-34	0	0	Deployment	1	0.001	Complete
13	PA-35	0	0	Deployment	1	0.001	Complete
13	PA-36	0	0	Deployment	1	0.001	Complete
13	PA-37	0	0	Deployment	1	0.001	Complete
13	PA-38	0	0	Deployment	1	0.001	Complete
13	PA-39	0	0	Deployment	1	0.001	Complete
13	PA-40	0	0	Deployment	1	0.001	Complete
13	PA-41	0	0	Deployment	1	0.001	Complete
13	PA-42	0	0	Deployment	1	0.001	Complete
13	PA-43	0	0	Deployment	1	0.001	Complete
Total					23		

Iceland: Accpt
8/2/2024 - 8/19/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 8/19/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 19 Aug

8/19/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 19 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
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 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	1	20	20	16.000	
 Daily Ops Meeting	DOps	1	1	15	15	15.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/20/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Tue 20 Aug

At the start of the day the crew were deploying OBS.
 OBS PA-44 went in to the water just after midnight.
 OBS deployment on line PA was completed at 7:59.
 The source, Maggie and PAM were then deployed, all gear in the water at 12:53.
 Line MGL24084OPA1 was then started.
 Shortly after the start of line the bridge called down and reported they were receiving an OBS beacon.
 The OBS team was contacted and informed of the beacon. Their supplies on the vessel were checked and all were off.
 The PIs, Lead OBS, Science officer and captain met on the bridge to discuss the situation.
 Due to the latest weather report, which forecasted worsening weather throughout the day and into the night it was decided to pick the source up and head for the OBS as soon as possible.
 The vessel turned for the best directions to get the source up.
 The LDEO technical team were on the gun deck monitoring the seas, swell and vessel movement on the best heading.
 After monitoring the seas for 10-15 mins a meeting was held in the main lab to discuss the sea state, ~3ms and 25-30 kts winds.
 The science officer explained that while the team can get the source onboard gear will be damaged. With the weather forecasted to worsen, deploying the source is at a greater risk for crew and gear with the possibility of not deploying the source at all. The weather report was viewed and was not likely to come down for 24, possibly 36 hours.
 After looking at all of the variables, the risk to the crew on deck, the almost certainty of damaging the gun arrays as they come on and go off, the current weather forecast and risk to the survey timeline it was decided to leave the guns in the water and continue downline thus leaving the OBS behind.
 As the vessel went downline the OBS team did some trouble shooting and they believe it was OBS PA 50 that came to surface.

Daily Comment Summaries - Plan for Tomorrow

Tue 20 Aug

Continue acquiring data on line PA

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	07:59	Receiver Deployment	AC_RDR_FF_RD	7.983
Deployment: Source, PAM, Maggie				
07:59	13:18	Source Deployment	SB_PO_SOD	5.317
Deployment: Source, PAM, Maggie				
13:18	15:44	Prime	AC_PP	2.433
Seq: 4 Line MGL24084OPA1				
15:44	18:16	Field Operations	SB_FO	2.533
Chargeable standby due to field operations. The bridge received an OBS beacon. The team confirmed an OBS was on surface. The vessel turned for best heading for source recovery. Due to the weather it was decided that a full source recovery and deployment would be to hazardous for crew, equipment and cruise objectives.				
18:16	24:00	Prime	AC_PP	5.733
Seq: 4				

8/20/2024

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Start	End	Category	Code	Duration (hrs)
Line MGL2408005OPA2				

Timing Day by Day (Marcus G Langseth, Source Only)

20-Aug	Hours	% Percent
Acquisition	16.150	67.292
Prime	8.167	34.028
Receiver Deployment/Recovery	7.983	33.264
Free Fall OBS	7.983	33.264
Receiver Deployment	7.983	33.264
Chargeable Standby	7.850	32.708
Field Operations	2.533	10.556
Planned Operations	5.317	22.153
Source Deployment	5.317	22.153
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	6.583	1.444
Source	5.583	1.224
Deployment	5.583	1.224
Vessel	1.000	0.219
Chargeable Standby	63.700	13.969
Field Operations	2.533	0.556
Planned Operations	19.067	4.181
Source Deployment	14.067	3.085
Source Recovery	5.000	1.096
Tests	7.267	1.594
Transit	21.950	4.814
Weather	12.883	2.825
Mobilisation	90.400	19.825
Mob Ashore	58.000	12.719
Transit to Prospect	32.400	7.105
Acquisition	295.317	64.762
Prime	67.283	14.755
Receiver Deployment/Recovery	228.033	50.007
Free Fall OBS	228.033	50.007
Receiver Deployment	111.933	24.547
Receiver Recovery	116.100	25.461
Total	456.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12

Source Only					
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		

Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	73.35	73.35	595.65	595.65
Combined	73.35	73.35	595.65	595.65

Production Listing (Accpt Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
4	P-A	35.6	4994	4850	Prime	21.75	4.793	Complete	Complete
5	P-A	35.6	4850	4507	Prime	51.60	4.845	Midnight	Part
Total						73.35			

Production Totals (points)

OBS_Deployment

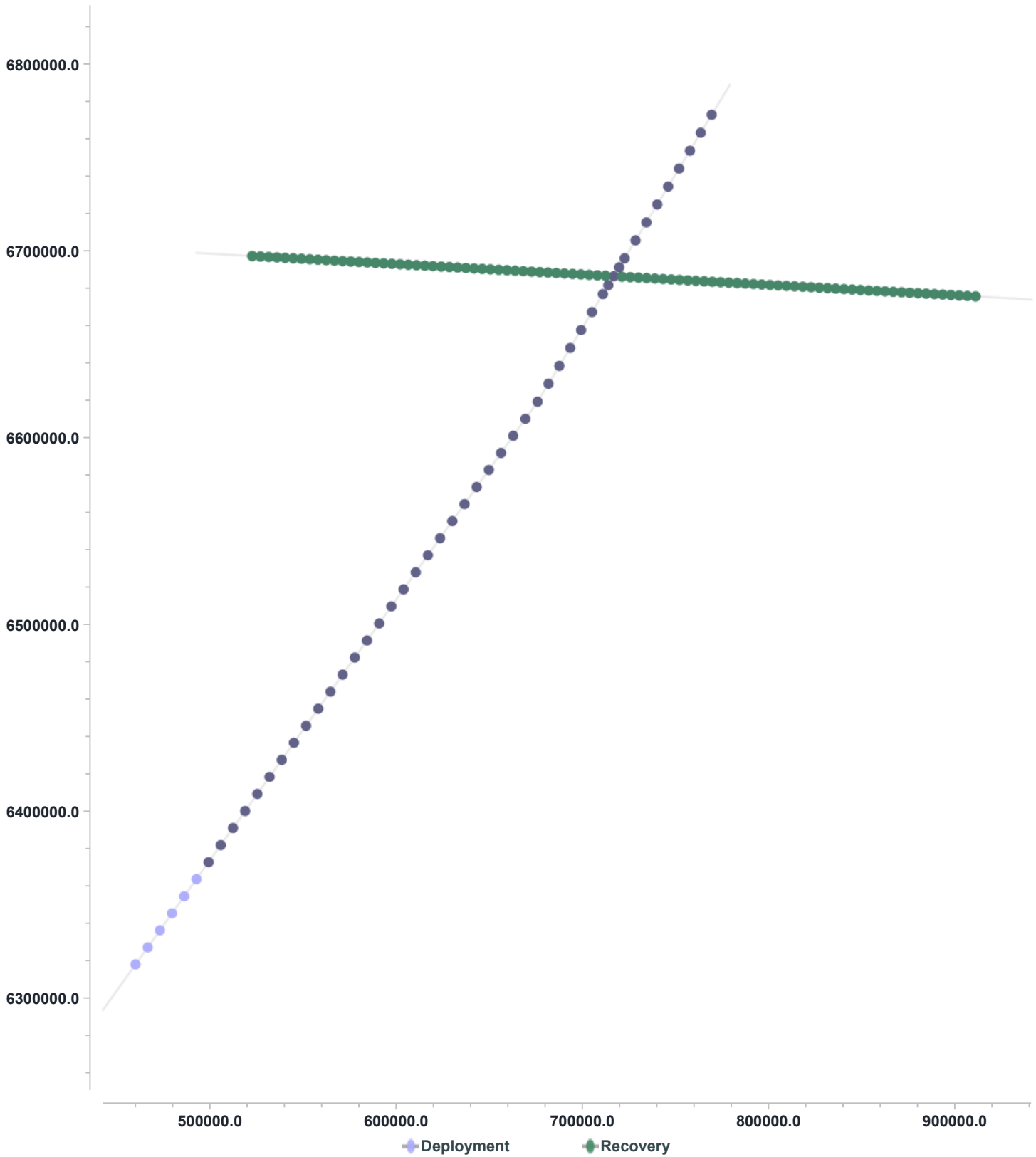
Accepted	Day	Week	Month	Project
Deployment	6	29	140	140
Recovery	0	0	88	88

Production Listing (points)

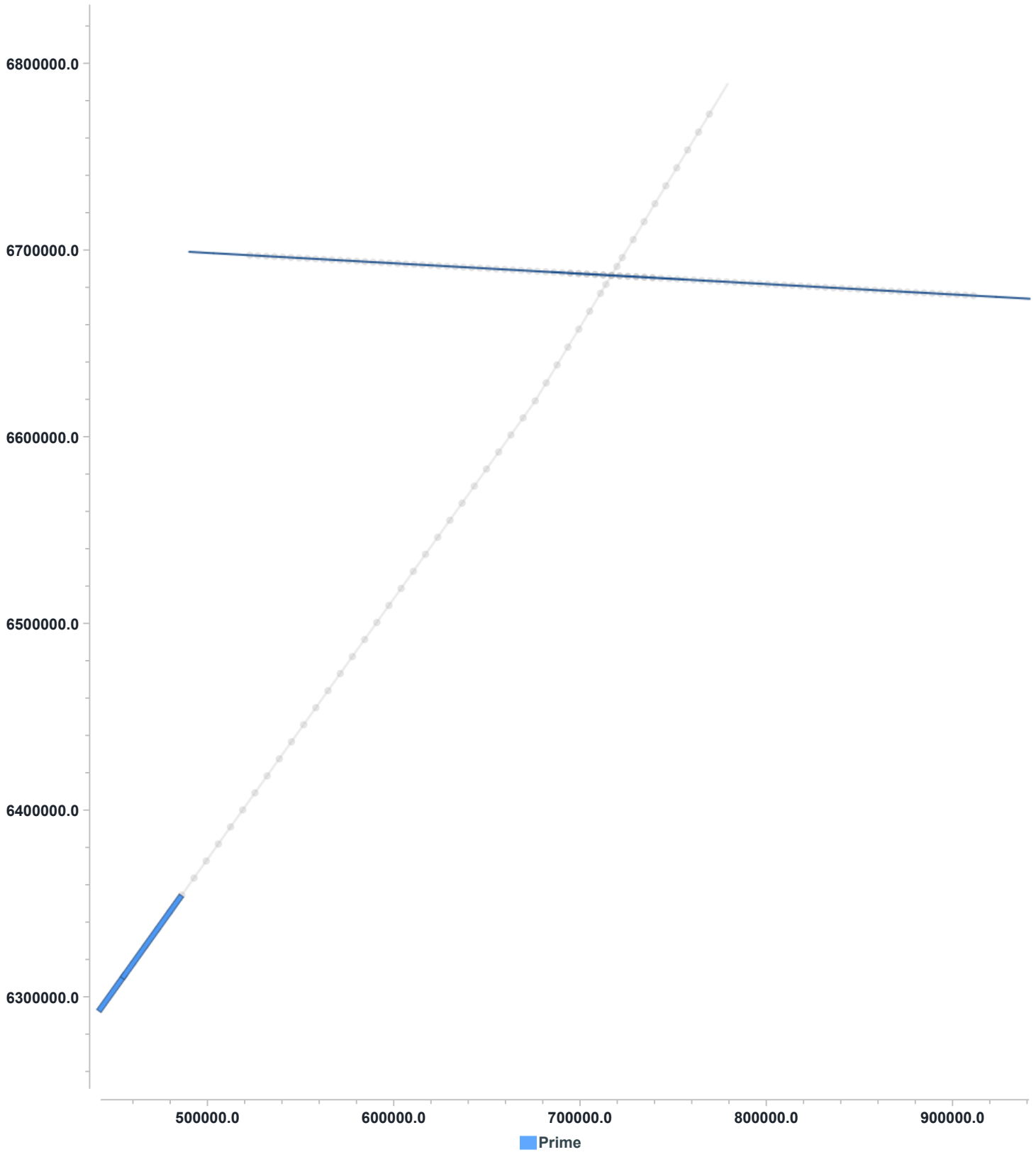
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
14	PA-44	N/A	N/A	Deployment	0	0.000	Complete
14	PA-45	0	0	Deployment	1	0.001	Complete
14	PA-46	0	0	Deployment	1	0.001	Complete
14	PA-47	0	0	Deployment	1	0.001	Complete
14	PA-48	0	0	Deployment	1	0.001	Complete
14	PA-49	0	0	Deployment	1	0.001	Complete
14	PA-50	0	0	Deployment	1	0.001	Complete
Total					6		

Iceland: Acppt
8/2/2024 - 8/20/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 8/20/2024
MCS 15000m 50m, Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 20 Aug

8/20/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 20 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
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 Brian Agee L-DEO OMO Source Mechanic
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 Riley Lopez - L-DEO OMO Observer
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 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:05	13:05	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	2	21	21	17.000	
 Daily Ops Meeting	DOps	1	2	16	16	16.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/21/2024

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Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Wed 21 Aug

At the start of the day the vessel was on line PA acquiring data heading North.
 Array 3 was recovered 4 meters to fix a broken soft tow rope.
 A few XBT's were done, the team will see some copper on the gun strings.
 At end of day the vessel was on line PA acquiring data.

Daily Comment Summaries - Plan for Tomorrow

Wed 21 Aug

Continue on line PA.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Prime	AC_PP	24.000
Seq: 0 MGL2408005OPA2				

Timing Day by Day (Marcus G Langseth, Source Only)

21-Aug	Hours	% Percent
Acquisition	24.000	100.000
Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	6.583	1.372
Source	5.583	1.163
Deployment	5.583	1.163
Vessel	1.000	0.208
Chargeable Standby	63.700	13.271
Field Operations	2.533	0.528
Planned Operations	19.067	3.972
Source Deployment	14.067	2.931
Source Recovery	5.000	1.042
Tests	7.267	1.514
Transit	21.950	4.573
Weather	12.883	2.684
Mobilisation	90.400	18.833
Mob Ashore	58.000	12.083
Transit to Prospect	32.400	6.750

Category	Hours	% Percent
Acquisition	319.317	66.524
Prime	91.283	19.017
Receiver Deployment/Recovery	228.033	47.507
Free Fall OBS	228.033	47.507
Receiver Deployment	111.933	23.319
Receiver Recovery	116.100	24.188
Total	480.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		

Comment	
Source Only Shot in Time Mode: 60 seconds per shot	

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	216.00	289.35	811.65	811.65
Combined	216.00	289.35	811.65	811.65

Production Listing (Accpt Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
5	P-A	35.6	4506	3067	Prime	216.00	4.857	Midnight	Part
Total						216.00			

Production Totals (points)

OBS_Deployment

8/21/2024

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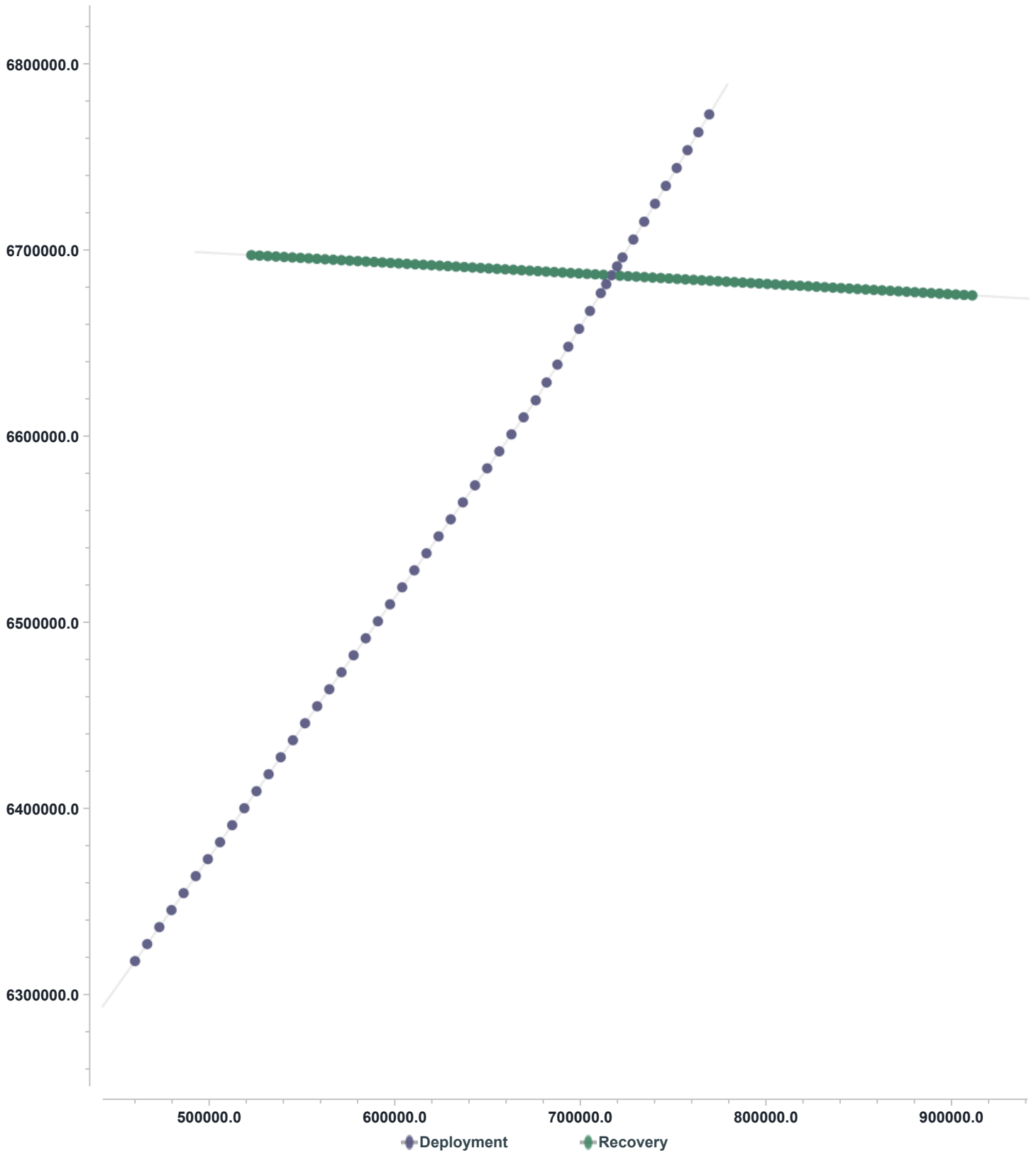
Accepted	Day	Week	Month	Project
Deployment	0	29	140	140
Recovery	0	0	88	88

Production Listing (points)

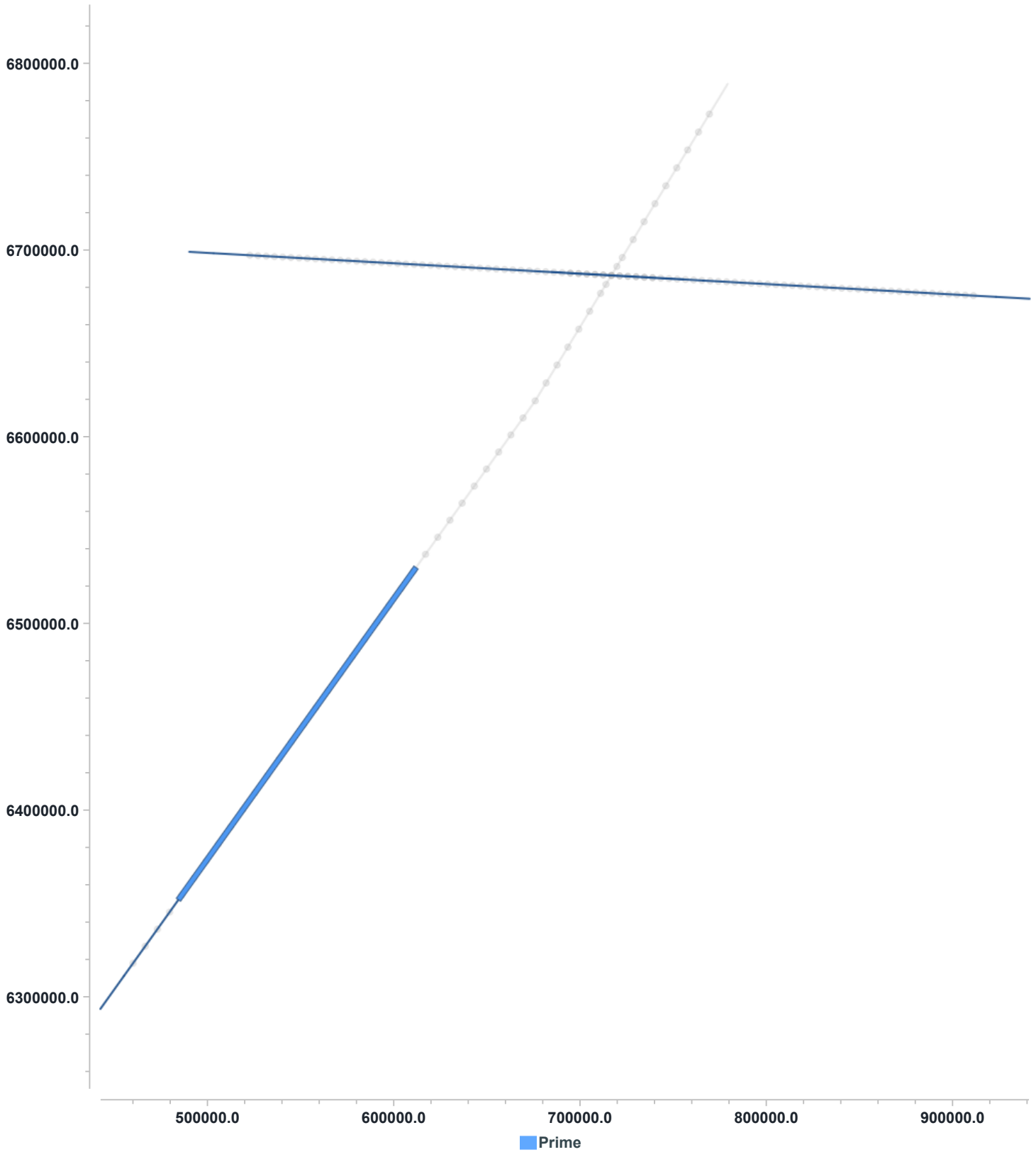
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

Iceland: Acppt
8/2/2024 - 8/21/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 8/21/2024
Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 21 Aug

8/21/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 21 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	3	22	22	18.000	
 Daily Ops Meeting	DOps	1	3	17	17	17.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/22/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
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Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Thu 22 Aug

The vessel was online PA at the start of the day.
 The wind & seas have been marginal all day with swells averaging 2.5-3 meters and the wind at 25-30kts.
 Just after noon an autofire was detected on array 3 gun 4. Trouble shooting was done on-board but ultimately the array had to be picked up.
 The vessel circled while the array was being worked on and came back on to line at 1500.
 The vessel was online acquiring data for the remainder of the day.

The magnetometer was trouble shot onboard. Geometrics was called in coordination with the LDEO office.
 Trouble shooting was discussed along with removing working parts from the fish with the bad bulkhead connector.
 At end of day the magnetometer was still be trouble shot with the plan to test it on the 23rd.

Daily Comment Summaries - Plan for Tomorrow

Thu 22 Aug

Continue on line PA.
 Recover Guns and PAM at end of line, ETA 1600 on the 23rd
 Continue trouble shooting the magnetometer.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	12:21	Prime	AC_PP	12.350
Seq: 0 MGL2408005OPA2				
12:21	15:00	Autofire	DT_SC_AF	2.650
15:00	24:00	Prime	AC_PP	9.000
Seq: 0 MGL2408006OPA3				

Timing Day by Day (Marcus G Langseth, Source Only)

22-Aug	Hours	% Percent
Acquisition	21.350	88.958
Prime	21.350	88.958
DownTime	2.650	11.042
Source	2.650	11.042
Autofire	2.650	11.042
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	9.233	1.832
Source	8.233	1.634

Category	Hours	% Percent
Autofire	2.650	0.526
Deployment	5.583	1.108
Vessel	1.000	0.198
Chargeable Standby	63.700	12.639
Field Operations	2.533	0.503
Planned Operations	19.067	3.783
Source Deployment	14.067	2.791
Source Recovery	5.000	0.992
Tests	7.267	1.442
Transit	21.950	4.355
Weather	12.883	2.556
Mobilisation	90.400	17.937
Mob Ashore	58.000	11.508
Transit to Prospect	32.400	6.429
Acquisition	340.667	67.593
Prime	112.633	22.348
Receiver Deployment/Recovery	228.033	45.245
Free Fall OBS	228.033	45.245
Receiver Deployment	111.933	22.209
Receiver Recovery	116.100	23.036
Total	504.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

8/22/2024

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Production Totals (Acpt Main km)

MCS 15000m 50m, Source Only

Accepted km	Day	Week	Month	Project
Prime	192.15	481.50	1003.80	1003.80
Combined	192.15	481.50	1003.80	1003.80

Production Listing (Acpt Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
5	P-A	35.6	3066	1786	Prime	192.15	4.618	Midnight	Part
Total						192.15			

Production Totals (points)

OBS_Deployment

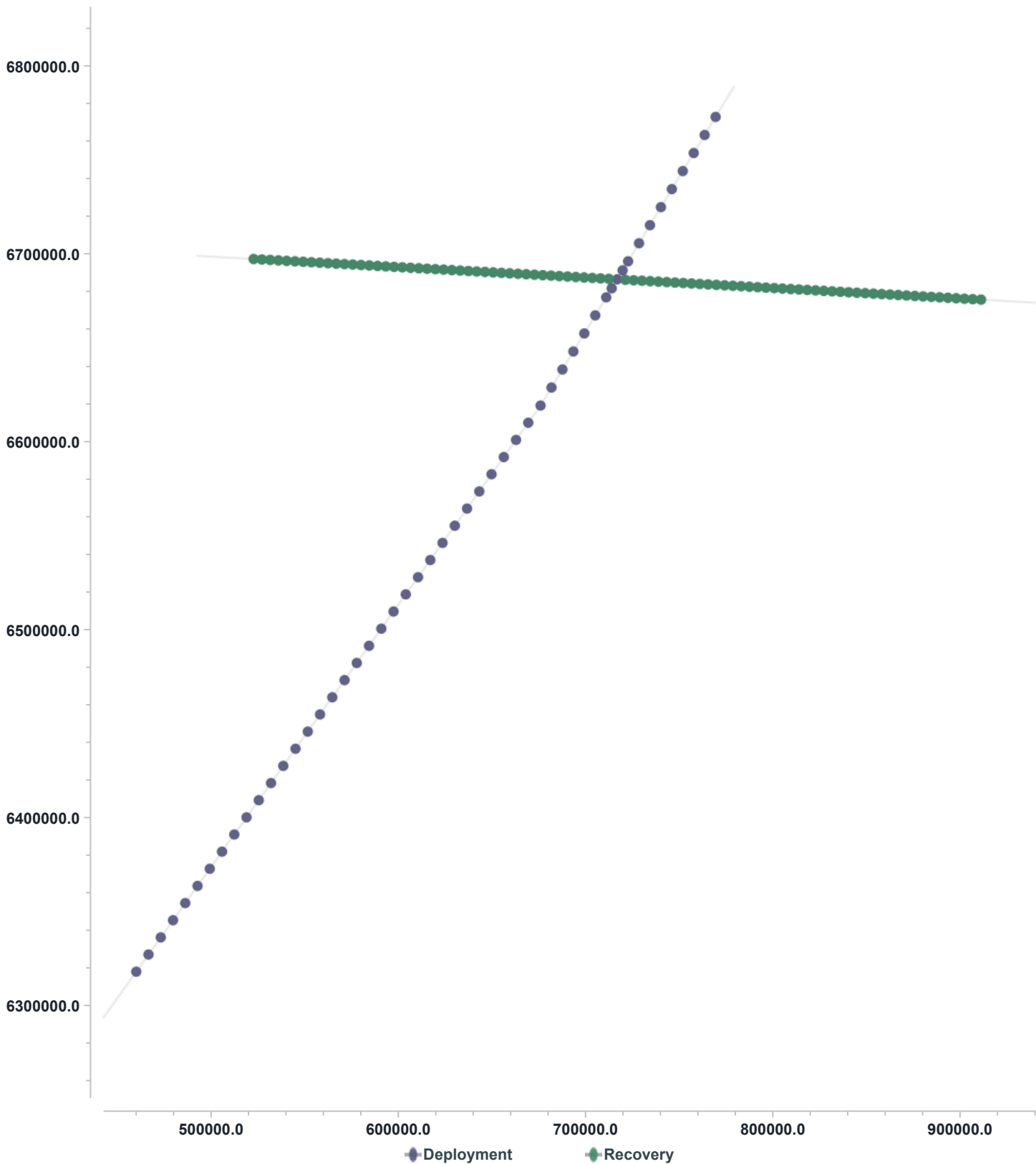
Accepted	Day	Week	Month	Project
Deployment	0	29	140	140
Recovery	0	0	88	88

Production Listing (points)

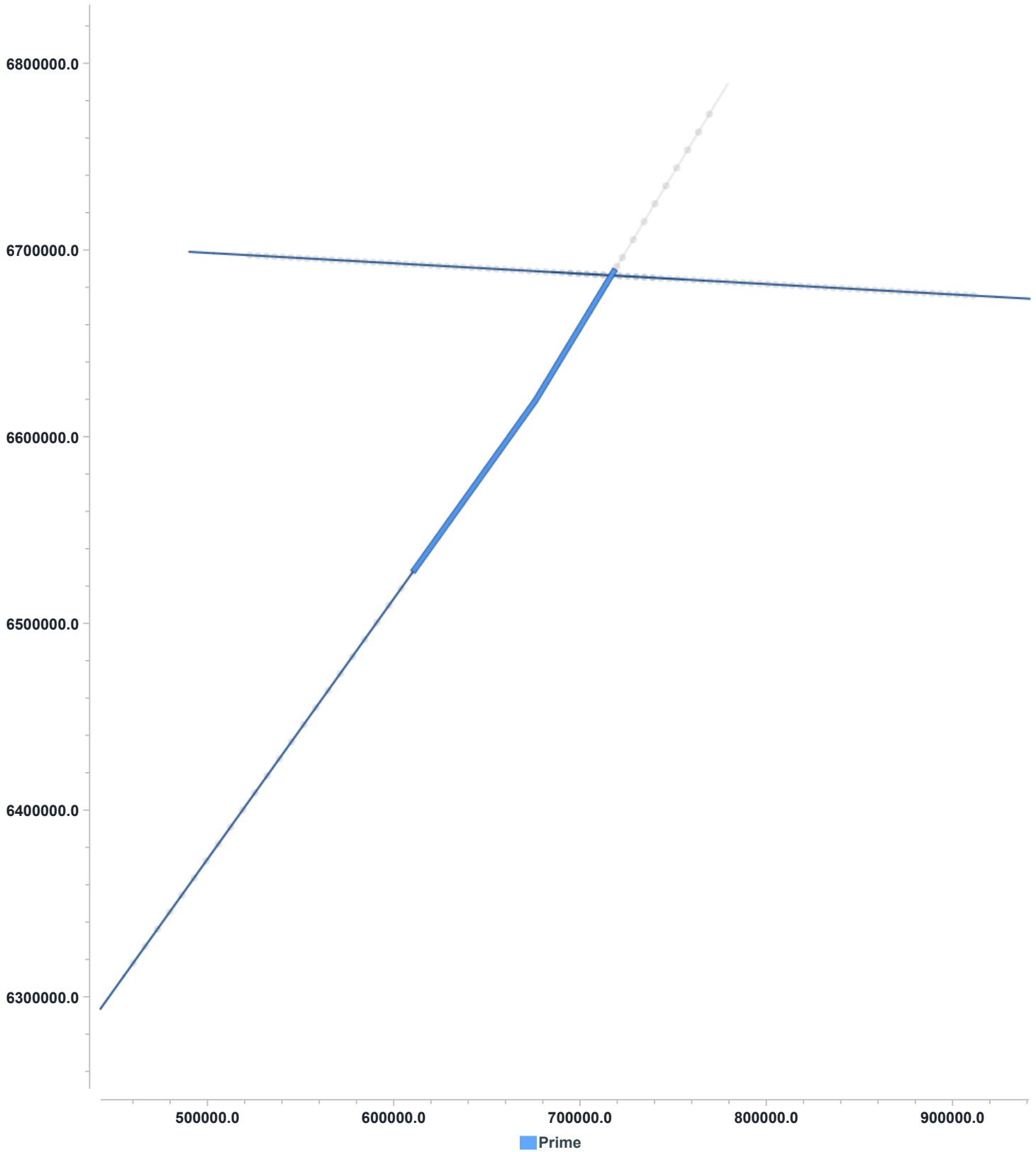
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

Iceland: Acppt
8/2/2024 - 8/22/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 8/22/2024
Source Only



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 22 Aug

8/22/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 22 Aug

Technical Staff On-board the Langseth

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Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:05	13:05	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	4	23	23	19.000	
 Daily Ops Meeting	DOps	1	4	18	18	18.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/23/2024

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Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Fri 23 Aug

The vessel was acquiring data on Line PA at the start of the day. The weather was marginal with ~3 meter swells and 25-30 kts winds. 3 km before the end of line the protected species observers spotted an unknown whale near the exclusion zone, the source was shut-down. As there was only 3 kms left in the line the decision was made to end line and start to recover the air source. The source and PAM were recovered by 21:40 and the vessel started the transit for OBS PA-0. At midnight the vessel was approaching the recovery location for OBS PA-0.

Daily Comment Summaries - Plan for Tomorrow

Fri 23 Aug

Start recovery of the OBS's on line PA.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	17:55	Prime	AC_PP	17.917
Seq: 6 MGL2408006OPA3				
17:55	21:21	Source Recovery	SB_PO_SOR	3.433
Recover Source and PAM				
21:21	24:00	Transit	SB_TRT	2.650
Transit to OBS PA-0				

Timing Day by Day (Marcus G Langseth, Source Only)

23-Aug	Hours	% Percent
Acquisition	17.917	74.653
Prime	17.917	74.653
Chargeable Standby	6.083	25.347
Planned Operations	3.433	14.306
Source Recovery	3.433	14.306
Transit	2.650	11.042
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	9.233	1.749
Source	8.233	1.559
Autofire	2.650	0.502
Deployment	5.583	1.057
Vessel	1.000	0.189

Category	Hours	% Percent
Chargeable Standby	69.783	13.217
Field Operations	2.533	0.480
Planned Operations	22.500	4.261
Source Deployment	14.067	2.664
Source Recovery	8.433	1.597
Tests	7.267	1.376
Transit	24.600	4.659
Weather	12.883	2.440
Mobilisation	90.400	17.121
Mob Ashore	58.000	10.985
Transit to Prospect	32.400	6.136
Acquisition	358.583	67.914
Prime	130.550	24.725
Receiver Deployment/Recovery	228.033	43.188
Free Fall OBS	228.033	43.188
Receiver Deployment	111.933	21.199
Receiver Recovery	116.100	21.989
Total	528.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		

Comment
Source Only Shot in Time Mode: 60 seconds per shot

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

8/23/2024

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Accepted km	Day	Week	Month	Project
Prime	117.60	599.25	1092.75	1092.75
Combined	117.60	599.25	1092.75	1092.75

Production Totals (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	0	0	0	0
Combined	0	0	0	0

Production Listing (Acpt Main km)

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
6	P-A	35.6	1784	1001	Prime	117.60	3.981	Complete	Complete
Total						117.60			

Production Totals (points)

OBS_Deployment

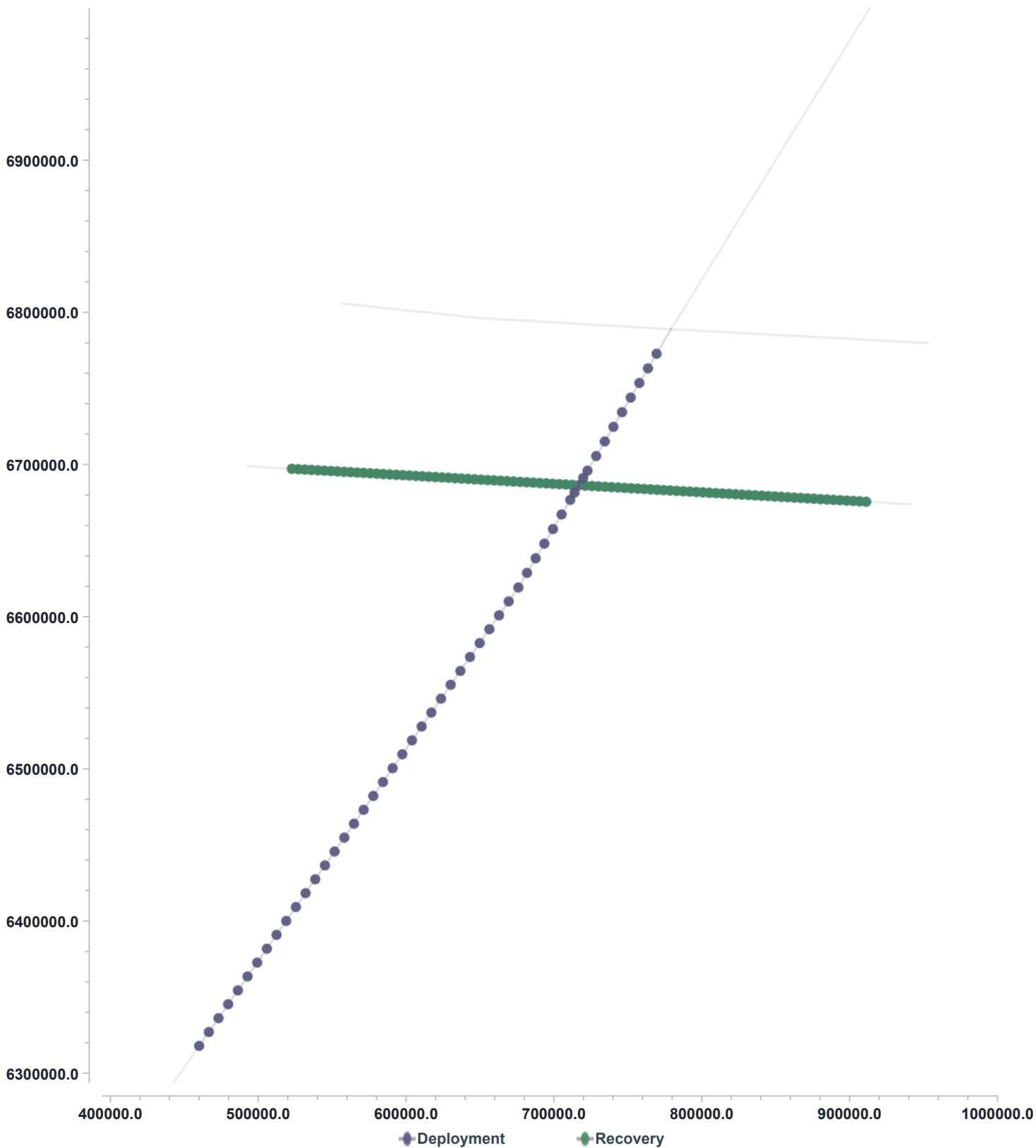
Accepted	Day	Week	Month	Project
Deployment	0	29	140	140
Recovery	0	0	88	88

Production Listing (points)

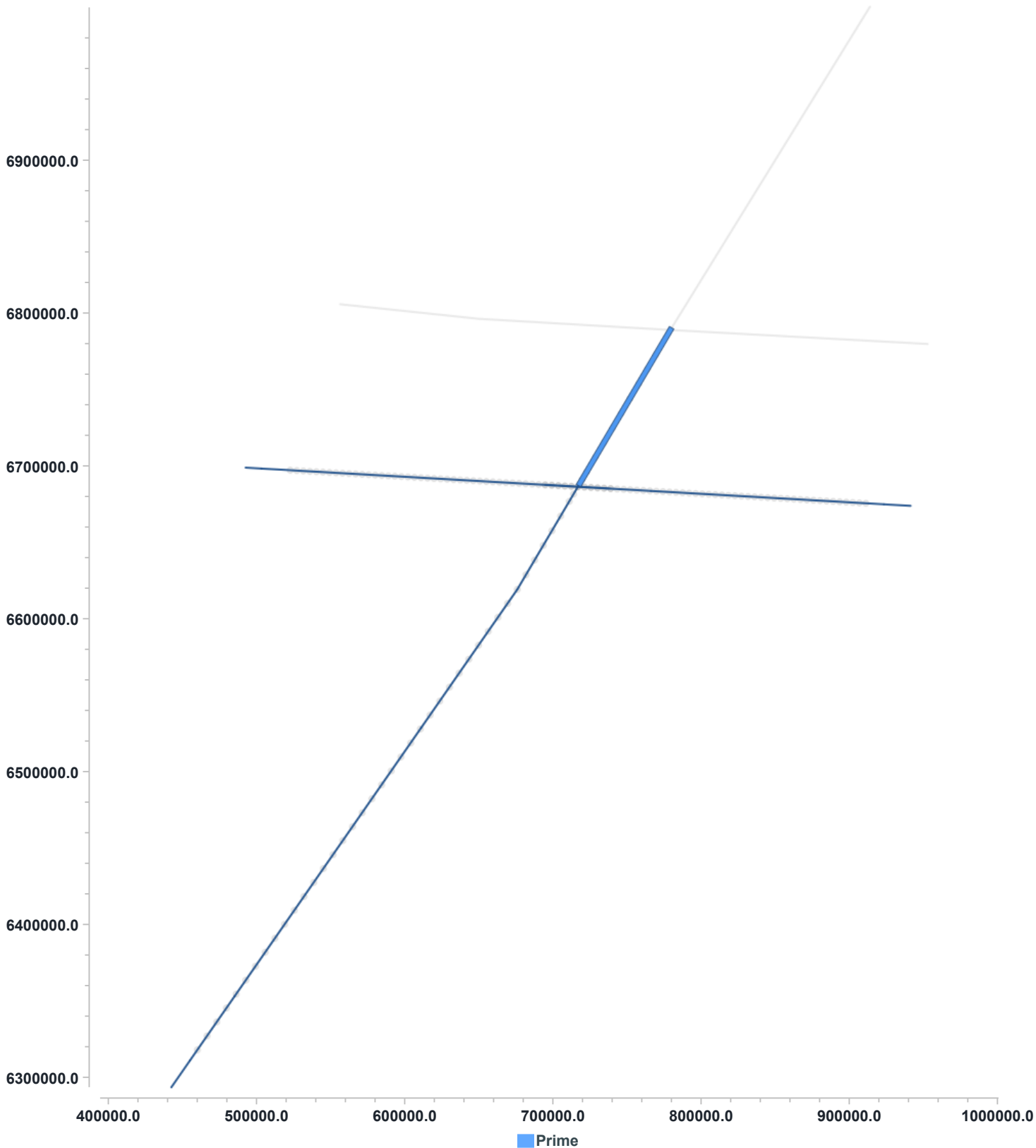
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

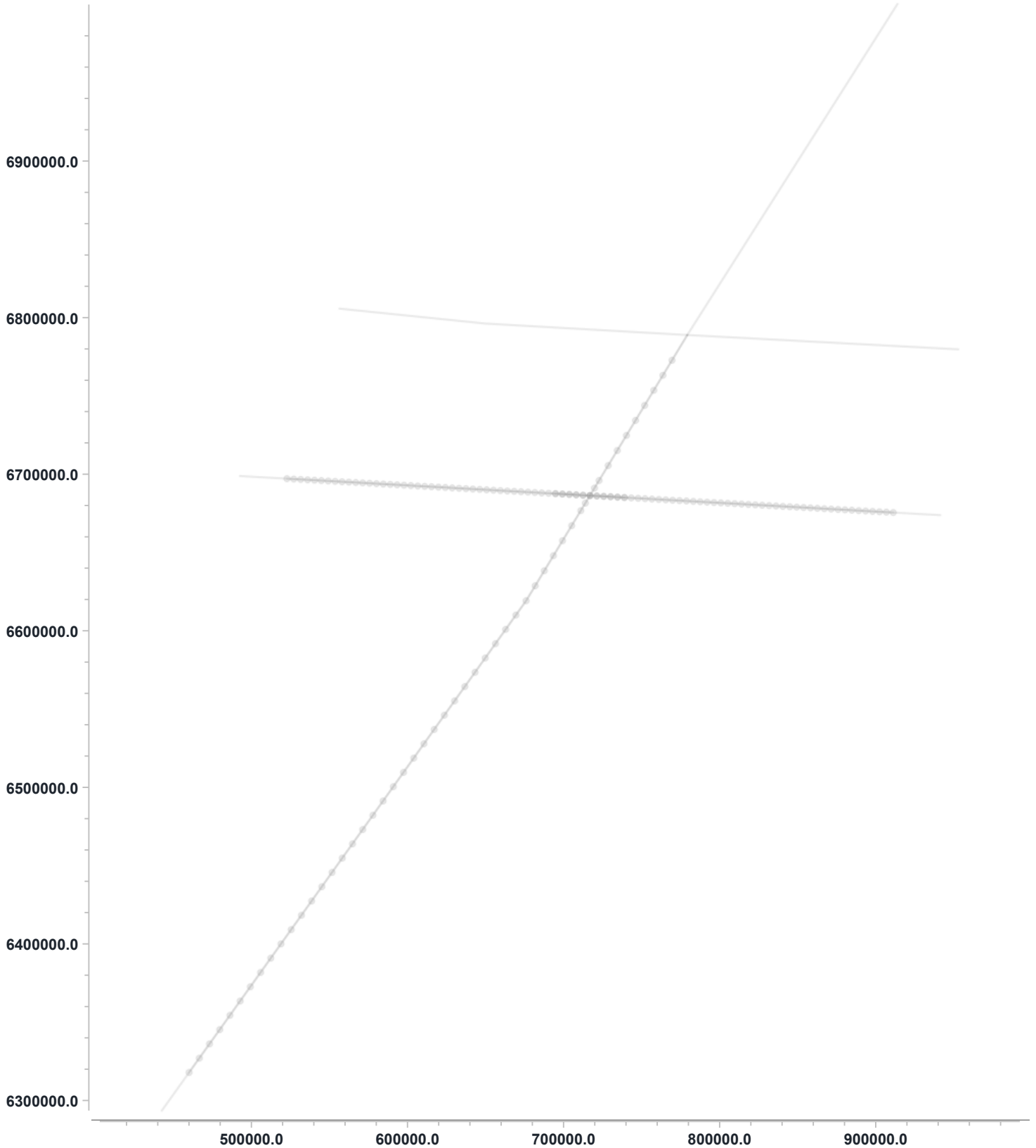
Iceland: Acppt
8/2/2024 - 8/23/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 8/23/2024
Source Only



Iceland: Accpt
8/2/2024 - 8/23/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 23 Aug

8/23/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 23 Aug

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HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	5	24	24	20.000	
 Daily Ops Meeting	DOps	1	5	19	19	19.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/24/2024

Page 1

Client: Lamont-Doherty Earth Observatory
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Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
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Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sat 24 Aug

At the start of the day the vessel was just coming in to recovery position for OBS PA-0. It was a full day of OBS recoveries. The weather was good and all the teams are in sync. As the OBS's are recovered the OBS and Sci team are breaking them down and storing them in their transportation cases. This will make Demobilization back in Iceland more efficient and will keep the deck open.

It was an exciting day onboard with regards to data. As the first few OBS's were recovered the Sci team started to review the data. There were a lot of print outs and quite a few crew gathered around the chart table as there appears to be a magma chamber visible in the records.

The team are currently looking at what can be done with the contingency MCS kilometres to image this area better.

At end of day the vessel had just recovered OBS PA-14 and were waiting on OBS PA-15 to come to surface.

Daily Comment Summaries - Plan for Tomorrow

Sat 24 Aug

Continue with OBS recoveries.
 Crane work to bring down the remaining transportation cases from the OBS deck, weather permitting.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Receiver Recovery	AC_RDR_FF_RRec	24.000

Timing Day by Day (Marcus G Langseth, Source Only)

24-Aug	Hours	% Percent
Acquisition	24.000	100.000
Receiver Deployment/Recovery	24.000	100.000
Free Fall OBS	24.000	100.000
Receiver Recovery	24.000	100.000
Chargeable Standby	0.000	0.000
Transit	0.000	0.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	9.233	1.673
Source	8.233	1.492
Autofire	2.650	0.480
Deployment	5.583	1.011
Vessel	1.000	0.181
Chargeable Standby	69.783	12.642

Category	Hours	% Percent
Field Operations	2.533	0.459
Planned Operations	22.500	4.076
Source Deployment	14.067	2.548
Source Recovery	8.433	1.528
Tests	7.267	1.316
Transit	24.600	4.457
Weather	12.883	2.334
Mobilisation	90.400	16.377
Mob Ashore	58.000	10.507
Transit to Prospect	32.400	5.870
Acquisition	382.583	69.309
Prime	130.550	23.650
Receiver Deployment/Recovery	252.033	45.658
Free Fall OBS	252.033	45.658
Receiver Deployment	111.933	20.278
Receiver Recovery	140.100	25.380
Total	552.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Acpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	599.25	1092.75	1092.75

Accepted km	Day	Week	Month	Project
Combined	0	599.25	1092.75	1092.75

Production Totals (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	0	0	0	0
Combined	0	0	0	0

Production Listing (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

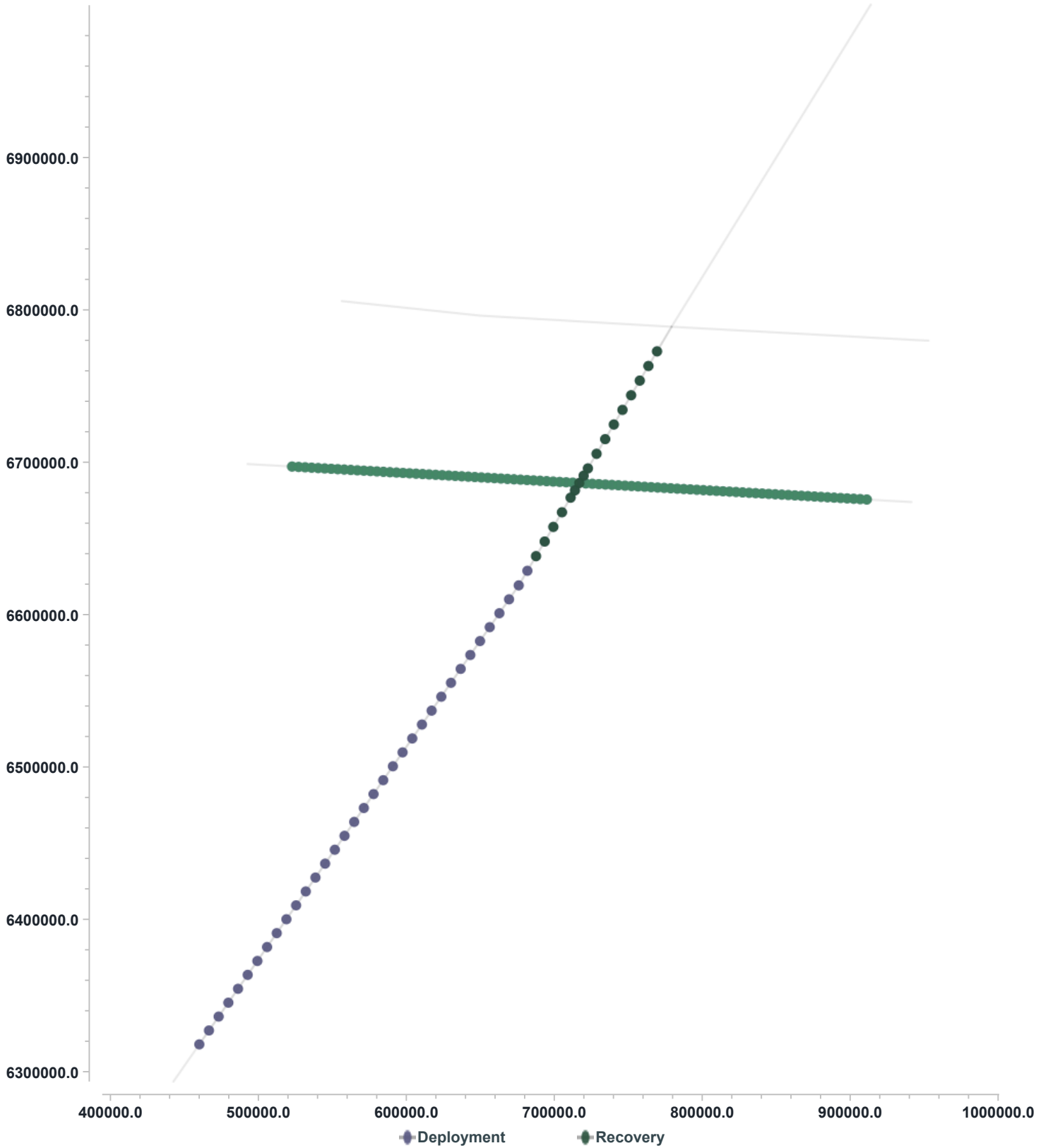
Accepted	Day	Week	Month	Project
Deployment	0	30	140	140
Recovery	17	17	105	105

Production Listing (points)

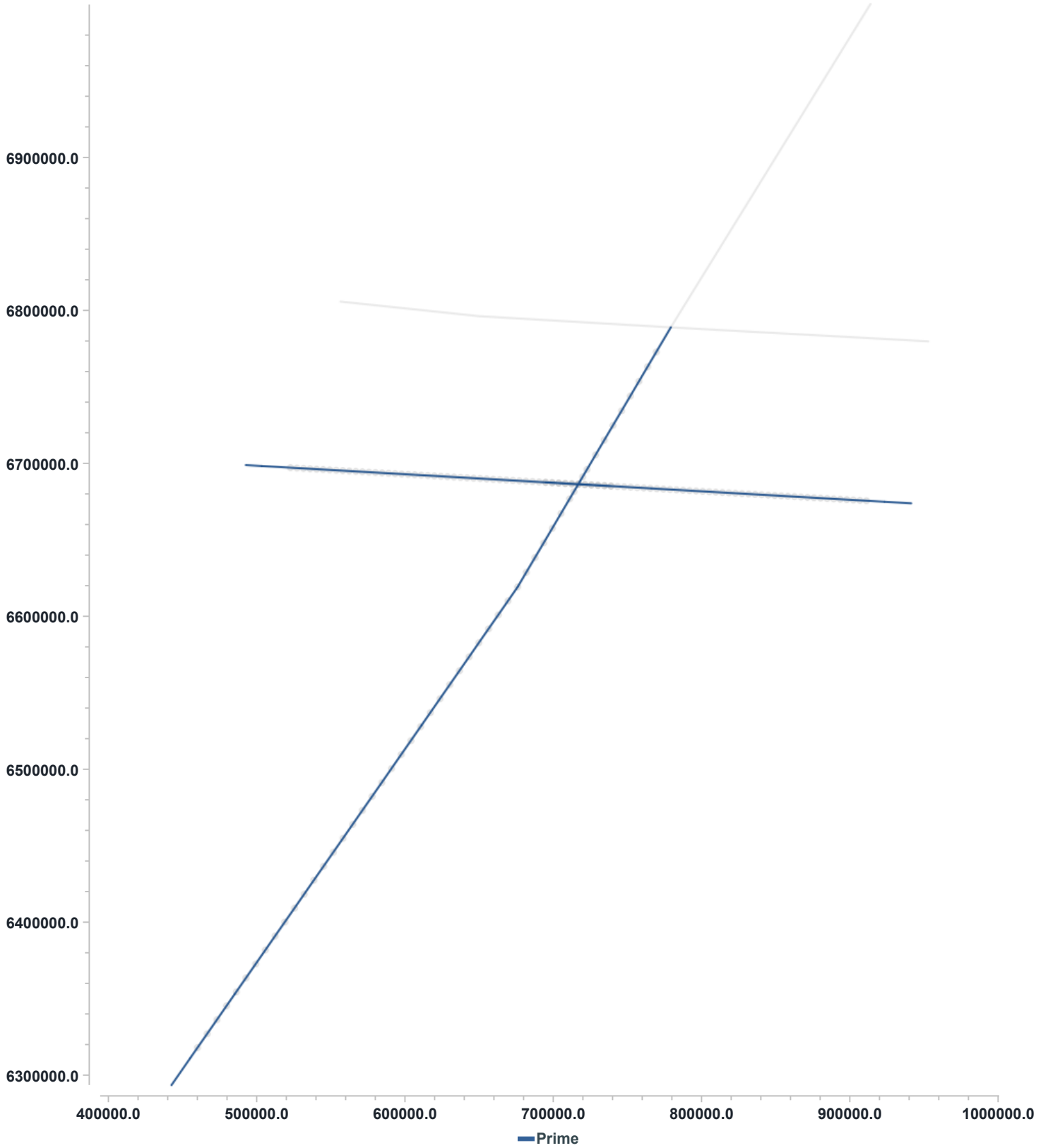
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
15	PA-0	0	0	Recovery	1	0.001	Complete
15	PA-1	0	0	Recovery	1	0.001	Complete
15	PA-2	0	0	Recovery	1	0.001	Complete
15	PA-3	0	0	Recovery	1	0.001	Complete
15	PA-4	0	0	Recovery	1	0.001	Complete
15	PA-5	0	0	Recovery	1	0.001	Complete
15	PA-6	0	0	Recovery	1	0.001	Complete
15	PA-7	0	0	Recovery	1	0.001	Complete
15	PA-8	0	0	Recovery	1	0.001	Complete
15	PA-A	0	0	Recovery	1	0.001	Complete
15	PFe-6	0	0	Recovery	1	0.001	Complete
15	PA-B	0	0	Recovery	1	0.001	Complete
15	PA-10	0	0	Recovery	1	0.001	Complete
15	PA-11	0	0	Recovery	1	0.001	Complete
15	PA-12	0	0	Recovery	1	0.001	Complete
15	PA-13	0	0	Recovery	1	0.001	Complete
15	PA-14	0	0	Recovery	1	0.001	Complete
Total					17		

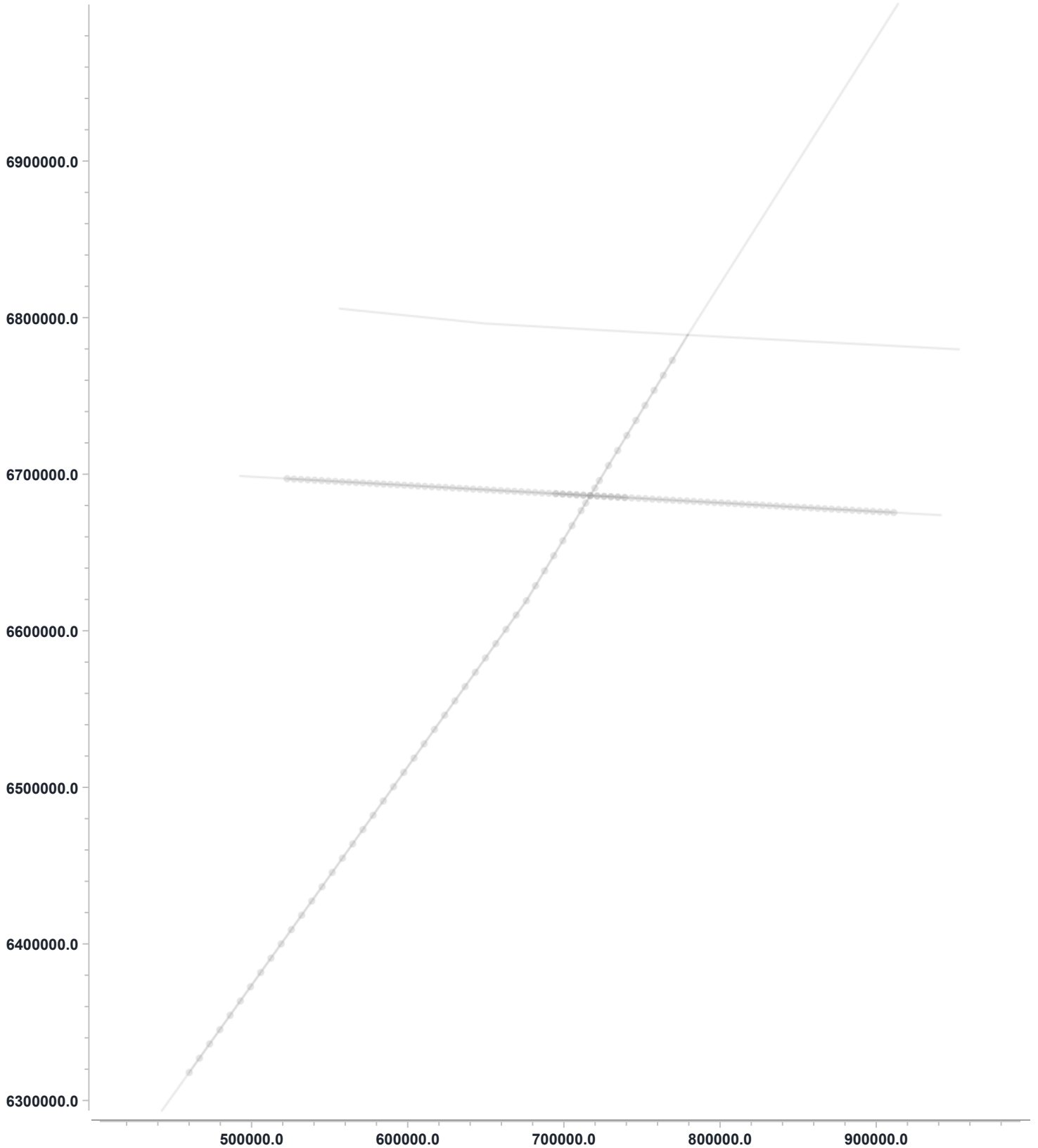
Iceland: Acppt
8/2/2024 - 8/24/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 8/24/2024
Source Only



Iceland: Accpt
8/2/2024 - 8/24/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 24 Aug

8/24/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 24 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	6	25	25	21.000	
 Daily Ops Meeting	DOps	1	6	20	20	20.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/25/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sun 25 Aug

A full day of OBS recoveries.
 The vessel started the day with OBS PA-15 on deck and ended the day with OBS PA-31 on deck.

Daily Comment Summaries - Plan for Tomorrow

Sun 25 Aug

Continue with OBS Recoveries.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Receiver Recovery	AC_RDR_FF_RRec	24.000

Timing Day by Day (Marcus G Langseth, Source Only)

25-Aug	Hours	% Percent
Acquisition	24.000	100.000
Receiver Deployment/Recovery	24.000	100.000
Free Fall OBS	24.000	100.000
Receiver Recovery	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	9.233	1.603
Source	8.233	1.429
Autofire	2.650	0.460
Deployment	5.583	0.969
Vessel	1.000	0.174
Chargeable Standby	69.783	12.115
Field Operations	2.533	0.440
Planned Operations	22.500	3.906
Source Deployment	14.067	2.442
Source Recovery	8.433	1.464
Tests	7.267	1.262
Transit	24.600	4.271
Weather	12.883	2.237
Mobilisation	90.400	15.694
Mob Ashore	58.000	10.069
Transit to Prospect	32.400	5.625

Category	Hours	% Percent
Acquisition	406.583	70.587
Prime	130.550	22.665
Receiver Deployment/Recovery	276.033	47.922
Free Fall OBS	276.033	47.922
Receiver Deployment	111.933	19.433
Receiver Recovery	164.100	28.490
Total	576.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		

Comment
Source Only Shot in Time Mode: 60 seconds per shot

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	599.25	1092.75	1092.75
Combined	0	599.25	1092.75	1092.75

Production Totals (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	0	0	0	0
Combined	0	0	0	0

Production Listing (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

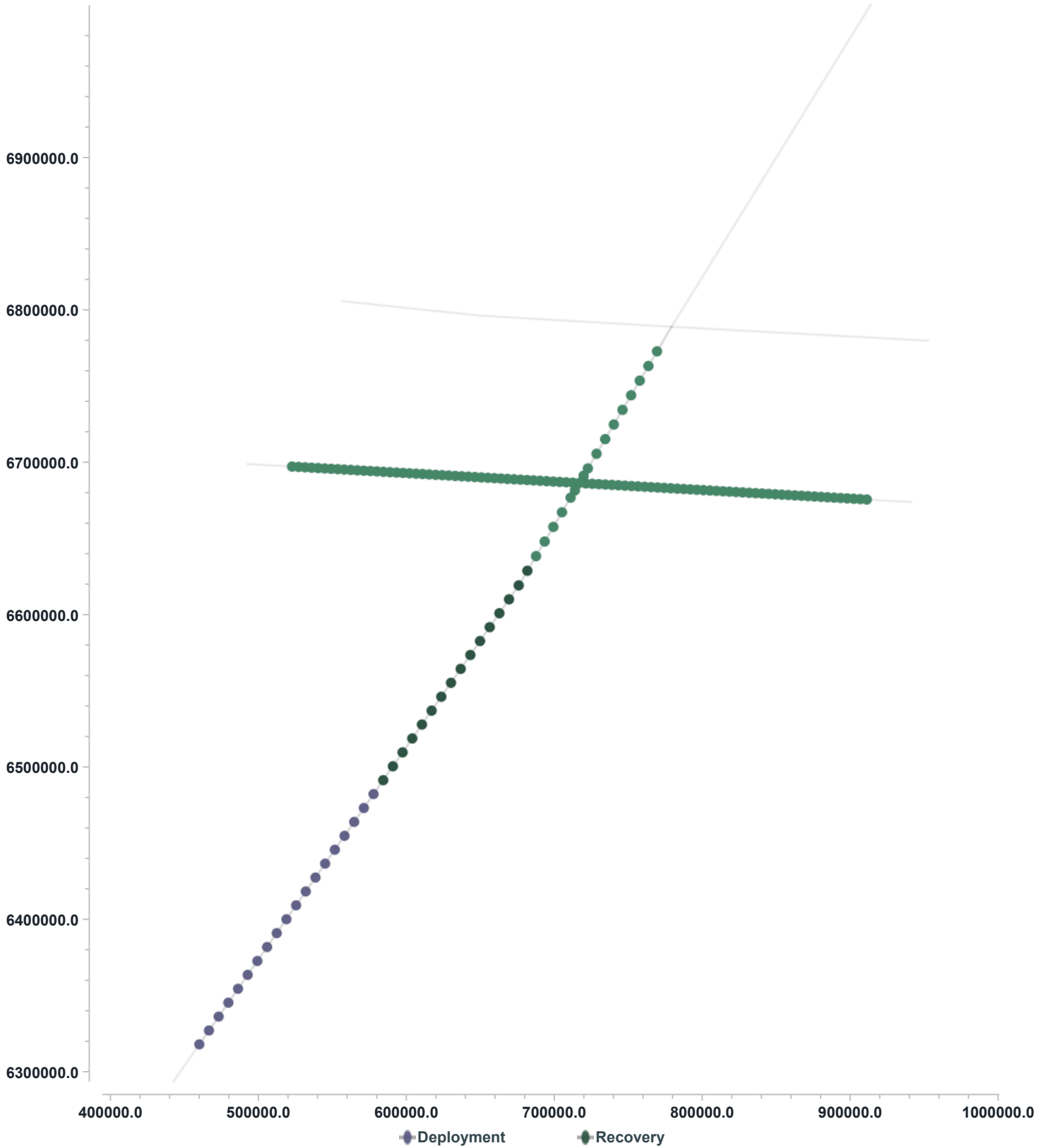
Accepted	Day	Week	Month	Project
Deployment	0	30	140	140
Recovery	16	33	121	121

Production Listing (points)

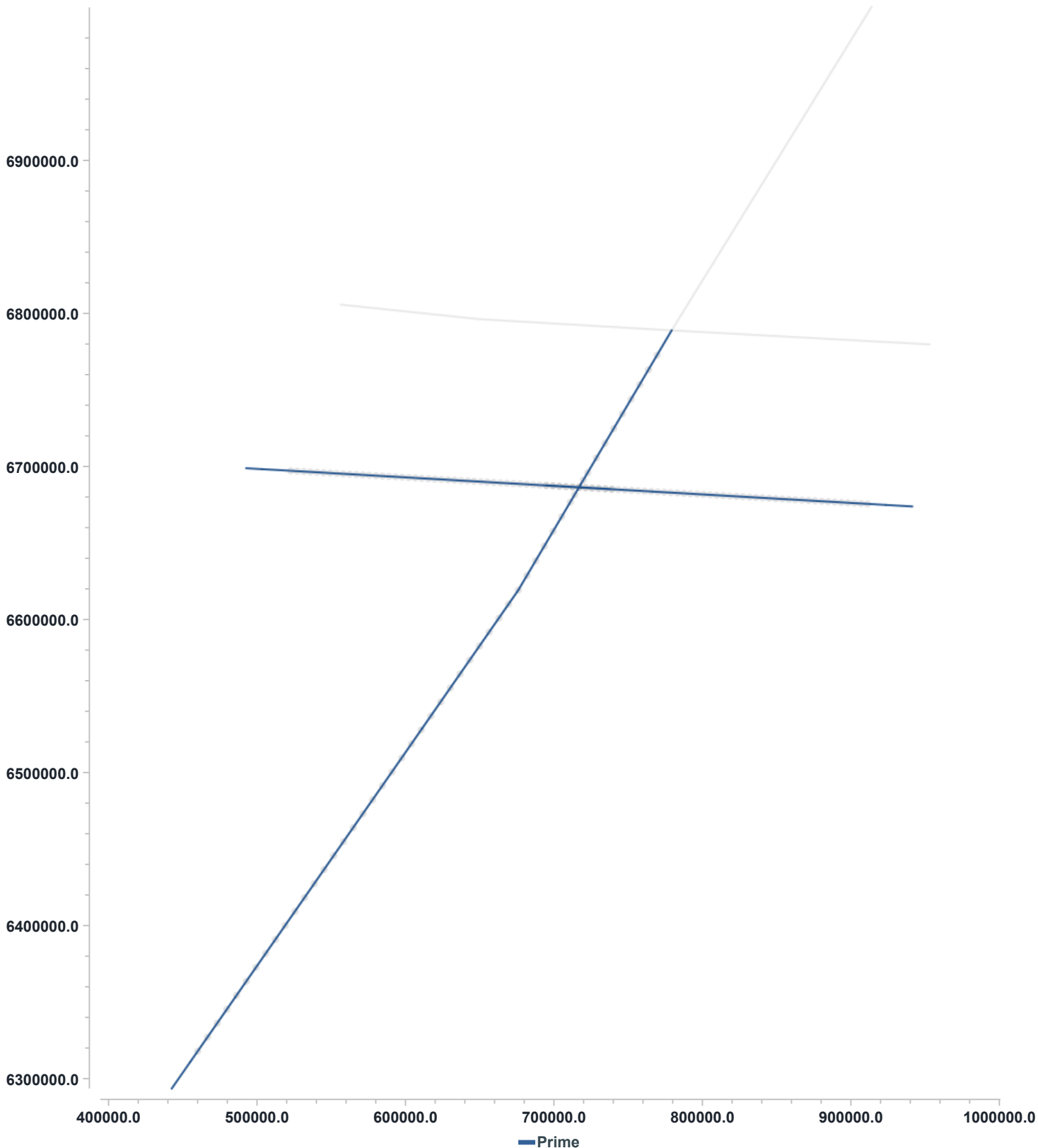
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
16	PA-15	0	0	Recovery	1	0.002	Complete
16	PA-16	0	0	Recovery	1	0.001	Complete
16	PA-18	0	0	Recovery	1	0.001	Complete
16	PA-19	0	0	Recovery	1	0.001	Complete
16	PA-20	0	0	Recovery	1	0.001	Complete
16	PA-21	0	0	Recovery	1	0.001	Complete
16	PA-22	0	0	Recovery	1	0.001	Complete
16	PA-23	0	0	Recovery	1	0.001	Complete
16	PA-24	0	0	Recovery	1	0.001	Complete
16	PA-25	0	0	Recovery	1	0.001	Complete
16	PA-26	0	0	Recovery	1	0.001	Complete
16	PA-27	0	0	Recovery	1	0.001	Complete
16	PA-28	0	0	Recovery	1	0.001	Complete
16	PA-29	0	0	Recovery	1	0.001	Complete
16	PA-30	0	0	Recovery	1	0.001	Complete
16	PA-31	0	0	Recovery	1	0.001	Complete
Total					16		

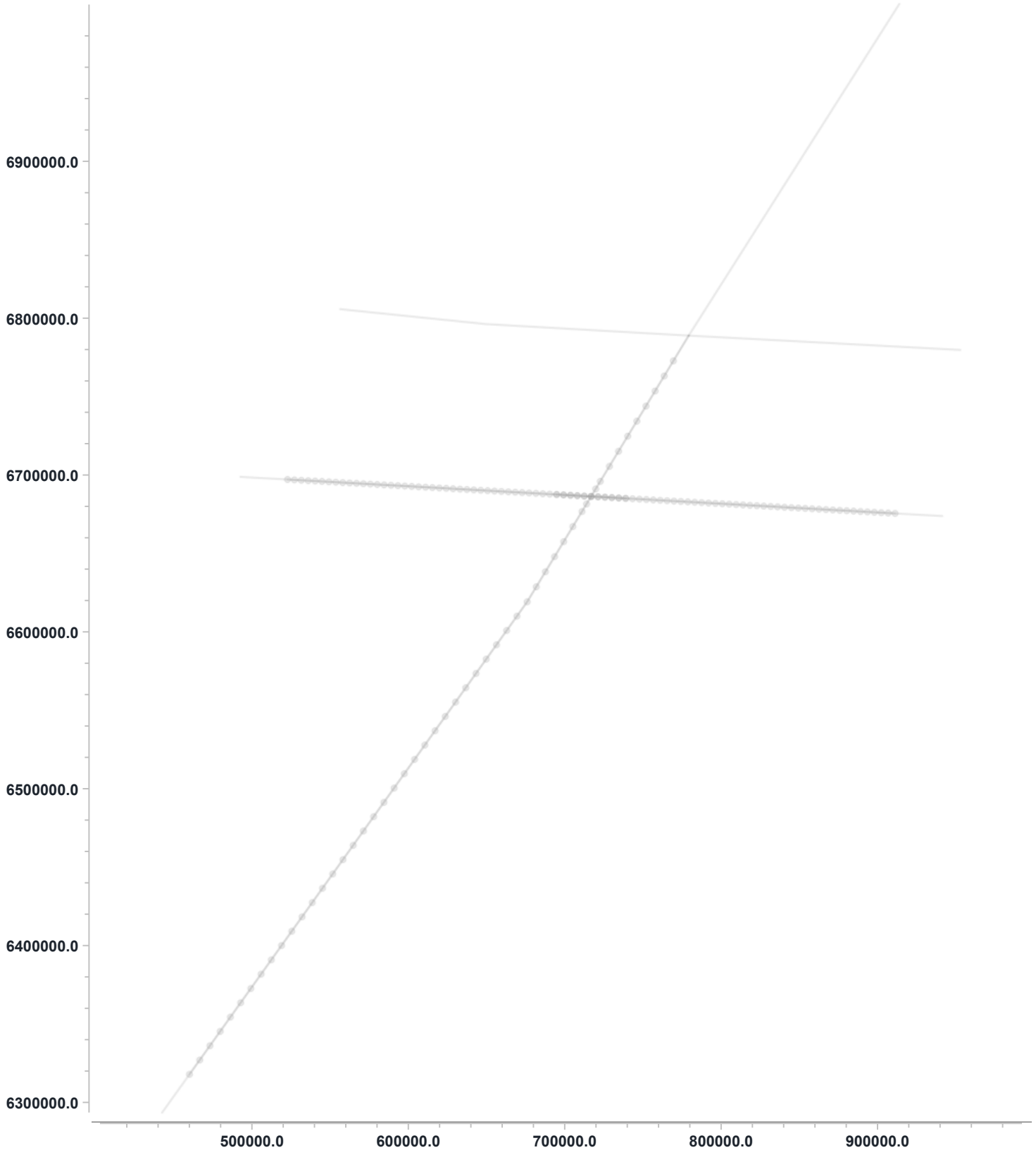
Iceland: Acppt
8/2/2024 - 8/25/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 8/25/2024
Source Only



Iceland: Accpt
8/2/2024 - 8/25/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 25 Aug

8/25/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 25 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	7	26	26	22.000	
 Daily Ops Meeting	DOps	1	7	21	21	21.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/26/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Mon 26 Aug

Another full day of OBS ops.
 The weather has been cooperating and the teams are working like a swiss watch.
 The day started with OBS PA-32 on deck and ended with OBS PA-45.

A lot of conversations ongoing with the end of OBS recoveries, looking for OBS PA-50, streamer ops and weather.

Daily Comment Summaries - Plan for Tomorrow

Mon 26 Aug

Finish OBS Ops
 Depending on weather, sail to the east and give one final search for OBS PA-50 while also planning for streamer deployment.
 The weather is forecasted to be marginal.

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Receiver Recovery	AC_RDR_FF_RRec	24.000

Timing Day by Day (Marcus G Langseth, Source Only)

26-Aug	Hours	% Percent
Acquisition	24.000	100.000
Receiver Deployment/Recovery	24.000	100.000
Free Fall OBS	24.000	100.000
Receiver Recovery	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	9.233	1.539
Source	8.233	1.372
Autofire	2.650	0.442
Deployment	5.583	0.931
Vessel	1.000	0.167
Chargeable Standby	69.783	11.631
Field Operations	2.533	0.422
Planned Operations	22.500	3.750
Source Deployment	14.067	2.344
Source Recovery	8.433	1.406
Tests	7.267	1.211
Transit	24.600	4.100
Weather	12.883	2.147

Category	Hours	% Percent
Mobilisation	90.400	15.067
Mob Ashore	58.000	9.667
Transit to Prospect	32.400	5.400
Acquisition	430.583	71.764
Prime	130.550	21.758
Receiver Deployment/Recovery	300.033	50.006
Free Fall OBS	300.033	50.006
Receiver Deployment	111.933	18.656
Receiver Recovery	188.100	31.350
Total	600.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	1092.75	1092.75
Combined	0	0	1092.75	1092.75

Production Totals (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	0	0	0	0
Combined	0	0	0	0

8/26/2024

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Production Listing (Accept Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

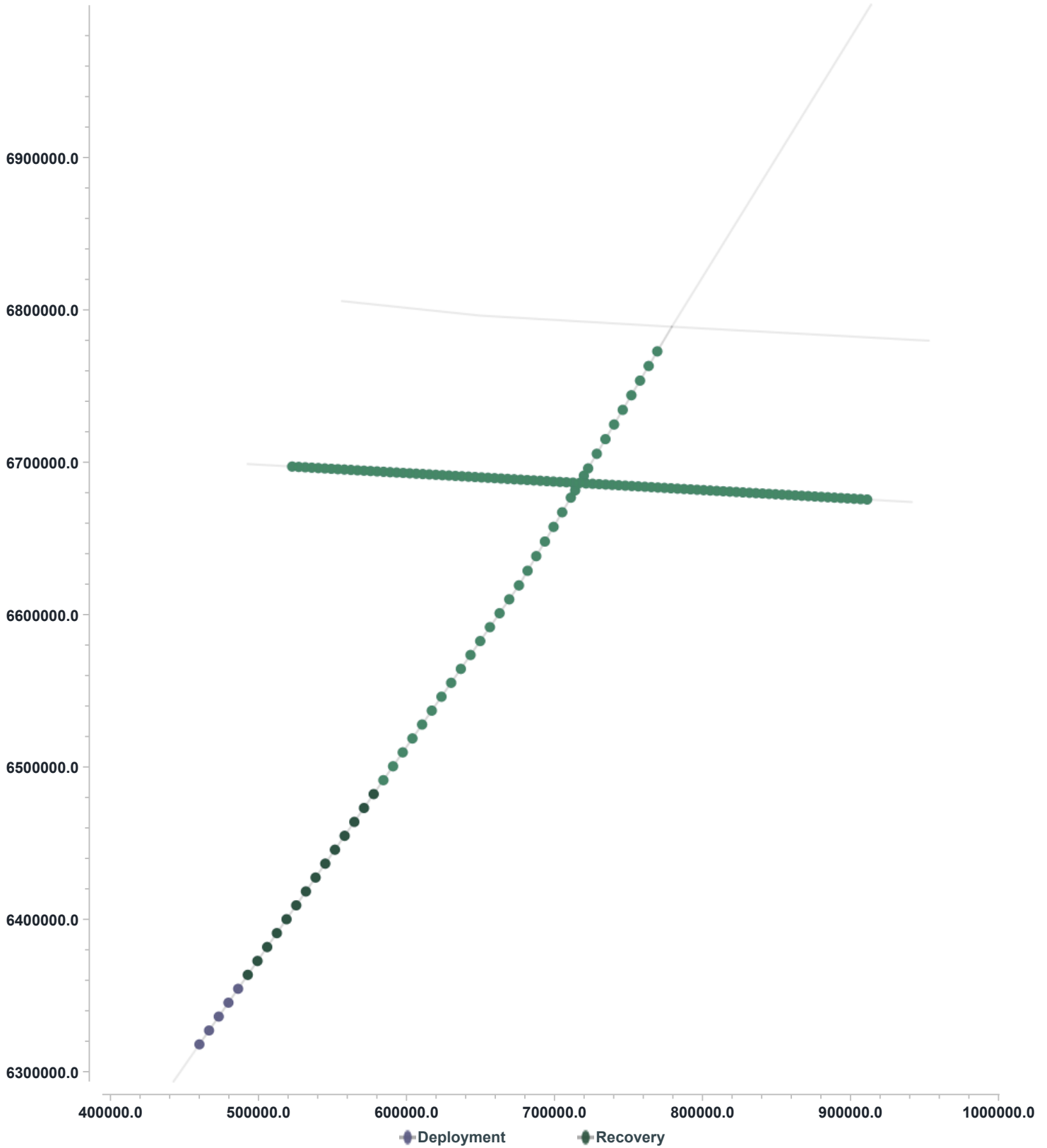
Accepted	Day	Week	Month	Project
Deployment	0	0	140	140
Recovery	14	14	135	135

Production Listing (points)

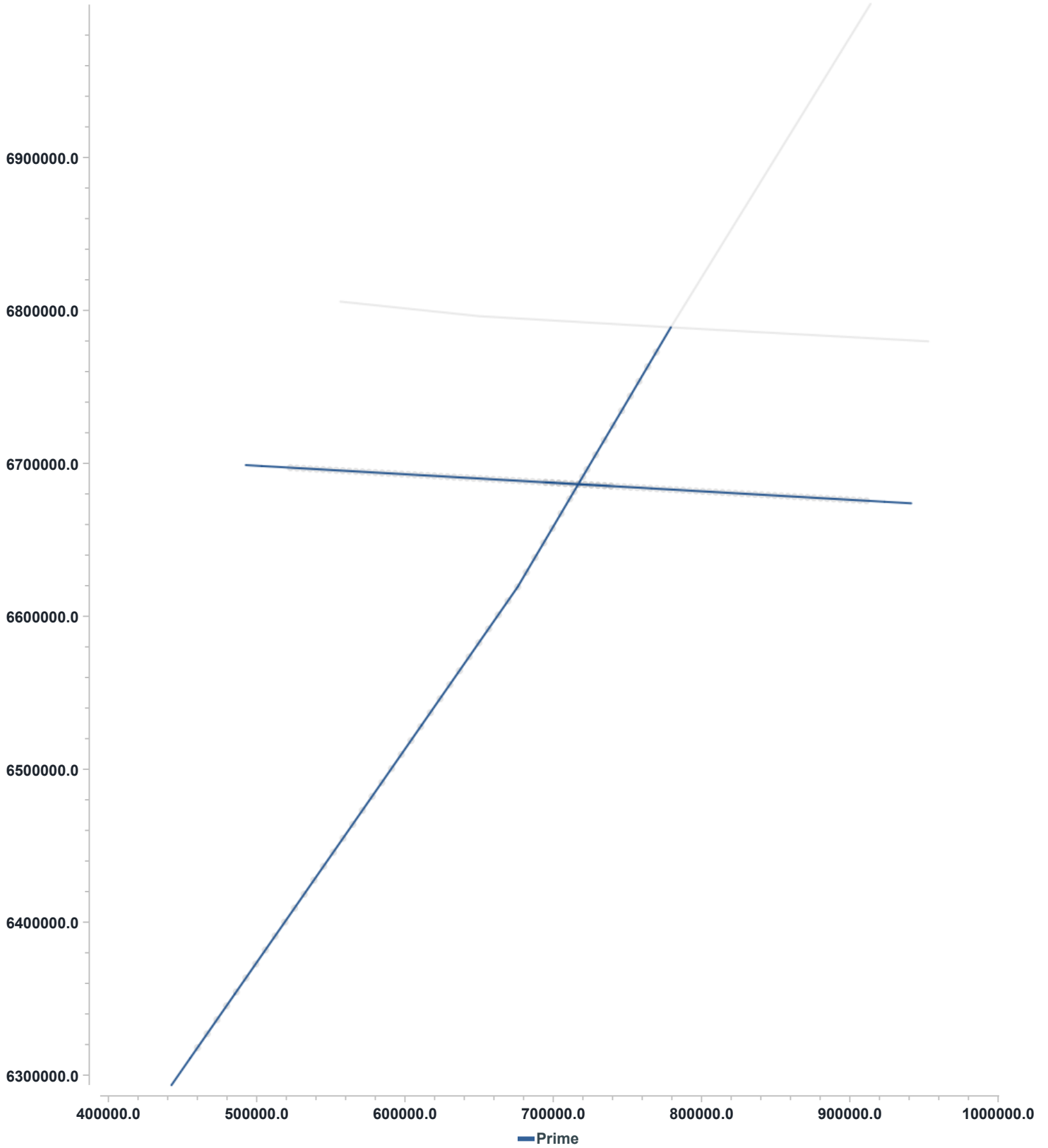
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
17	PA-32	0	0	Recovery	1	0.001	Complete
17	PA-33	0	0	Recovery	1	0.001	Complete
17	PA-34	0	0	Recovery	1	0.001	Complete
17	PA-35	0	0	Recovery	1	0.001	Complete
17	PA-36	0	0	Recovery	1	0.001	Complete
17	PA-37	0	0	Recovery	1	0.001	Complete
17	PA-38	0	0	Recovery	1	0.001	Complete
17	PA-39	0	0	Recovery	1	0.001	Complete
17	PA-40	0	0	Recovery	1	0.001	Complete
17	PA-41	0	0	Recovery	1	0.001	Complete
17	PA-42	0	0	Recovery	1	0.001	Complete
17	PA-43	0	0	Recovery	1	0.001	Complete
17	PA-44	0	0	Recovery	1	0.001	Complete
17	PA-45	0	0	Recovery	1	0.001	Complete
Total					14		

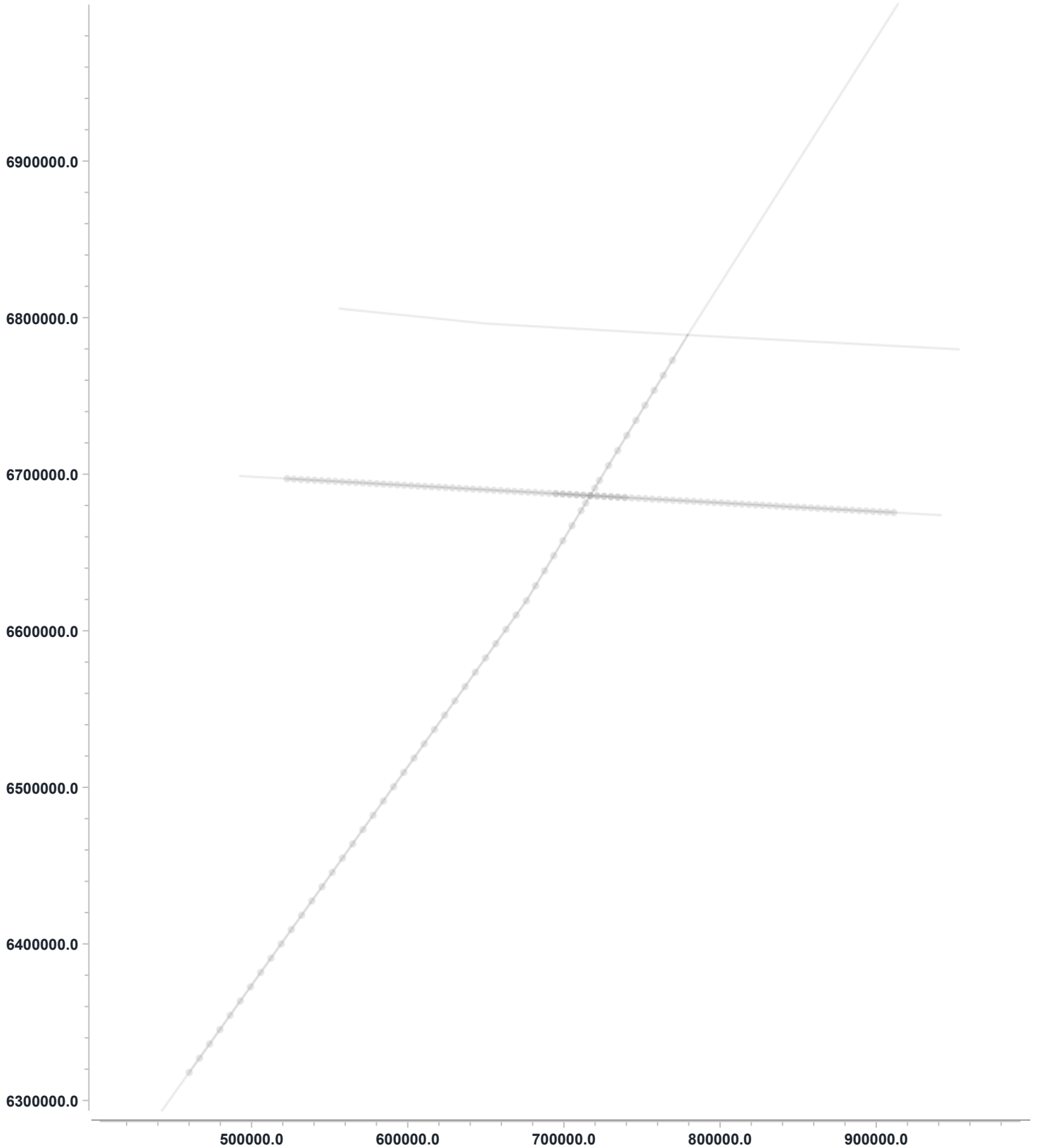
Iceland: Acppt
8/2/2024 - 8/26/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 8/26/2024
Source Only



Iceland: Accpt
8/2/2024 - 8/26/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 26 Aug

8/26/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 26 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
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 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth

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 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			












HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Daily Science Report

8/26/2024

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Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	1	27	27	23.000	
 Daily Ops Meeting	DOps	1	1	22	22	22.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/27/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Tue 27 Aug

Finished recovery of remaining OBS on line PA.
 The vessel sailed to OBS PA-50 and tried to ping it, no comms were established.
 The weather was very marginal, the captain requested for the OBS release command to not be sent as we could not safely recover the OBS if on surface.
 The consensus was the OBS was not on the sea floor and was what was picked up by the RDF system several days prior.
 As the weather was marginal the team decided to take the opportunity and sail 50 miles to the East, which is in the direction of the local currents in the hopes of picking it up on the RDF.
 After getting to the search location, nothing was received on the RDF. The search was completed and the vessel started to slowly work it's way back to the west.
 The weather was to bad to deploy the tail buoy. The vessel was down for weather until 2200.
 The tail buoy went in to the water, it had to be picked up once to adjust some weight, everything looked good going out and all system were working.
 Streamer deployment started

Daily Comment Summaries - Plan for Tomorrow

Tue 27 Aug

Continue with streamer deployment

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	06:46	Receiver Recovery	AC_RDR_FF_RRec	6.767
06:46	12:26	Transit	AC_RDR_FF_TR	5.667
OBS PA-50 was not found. Sailing East 50 miles to try and pick it up on the RDF				
12:26	22:08	Weather	SB_WX	9.700
Chargeable standby due to weather.				
22:08	22:23	Streamer Deployment	SB_PO_STD	0.250
Deploying Streamer				
22:23	22:42	Streamers	DT_ST	0.317
Recover Tailbuoy to increase ballast weight on Keel				
22:42	24:00	Streamer Deployment	SB_PO_STD	1.300
Chargeable Standby related to Planned Operations due to Streamer Deployment				

Timing Day by Day (Marcus G Langseth, Source Only)

27-Aug	Hours	% Percent
Acquisition	12.433	51.806
Receiver Deployment/Recovery	12.433	51.806
Free Fall OBS	12.433	51.806
Receiver Recovery	6.767	28.194
Transit	5.667	23.611

8/27/2024

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27-Aug	Hours	% Percent
Chargeable Standby	11.250	46.875
Planned Operations	1.550	6.458
Streamer Deployment	1.550	6.458
Weather	9.700	40.417
DownTime	0.317	1.319
Streamers	0.317	1.319
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	9.550	1.530
Source	8.233	1.319
Autofire	2.650	0.425
Deployment	5.583	0.895
Streamers	0.317	0.051
Vessel	1.000	0.160
Chargeable Standby	81.033	12.986
Field Operations	2.533	0.406
Planned Operations	24.050	3.854
Source Deployment	14.067	2.254
Source Recovery	8.433	1.351
Streamer Deployment	1.550	0.248
Tests	7.267	1.165
Transit	24.600	3.942
Weather	22.583	3.619
Mobilisation	90.400	14.487
Mob Ashore	58.000	9.295
Transit to Prospect	32.400	5.192
Acquisition	443.017	70.996
Prime	130.550	20.921
Receiver Deployment/Recovery	312.467	50.075
Free Fall OBS	312.467	50.075
Receiver Deployment	111.933	17.938
Receiver Recovery	194.867	31.229
Transit	5.667	0.908
Total	624.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		

Comment

Source Only Shot in Time Mode: 60 seconds per shot

Basic Project Details

MCS 15000m 50m

General Details

Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		

Cable Details

No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m

Source Details

No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	1092.75	1092.75
Combined	0	0	1092.75	1092.75

Production Totals (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	0	0	0	0
Combined	0	0	0	0

Production Listing (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

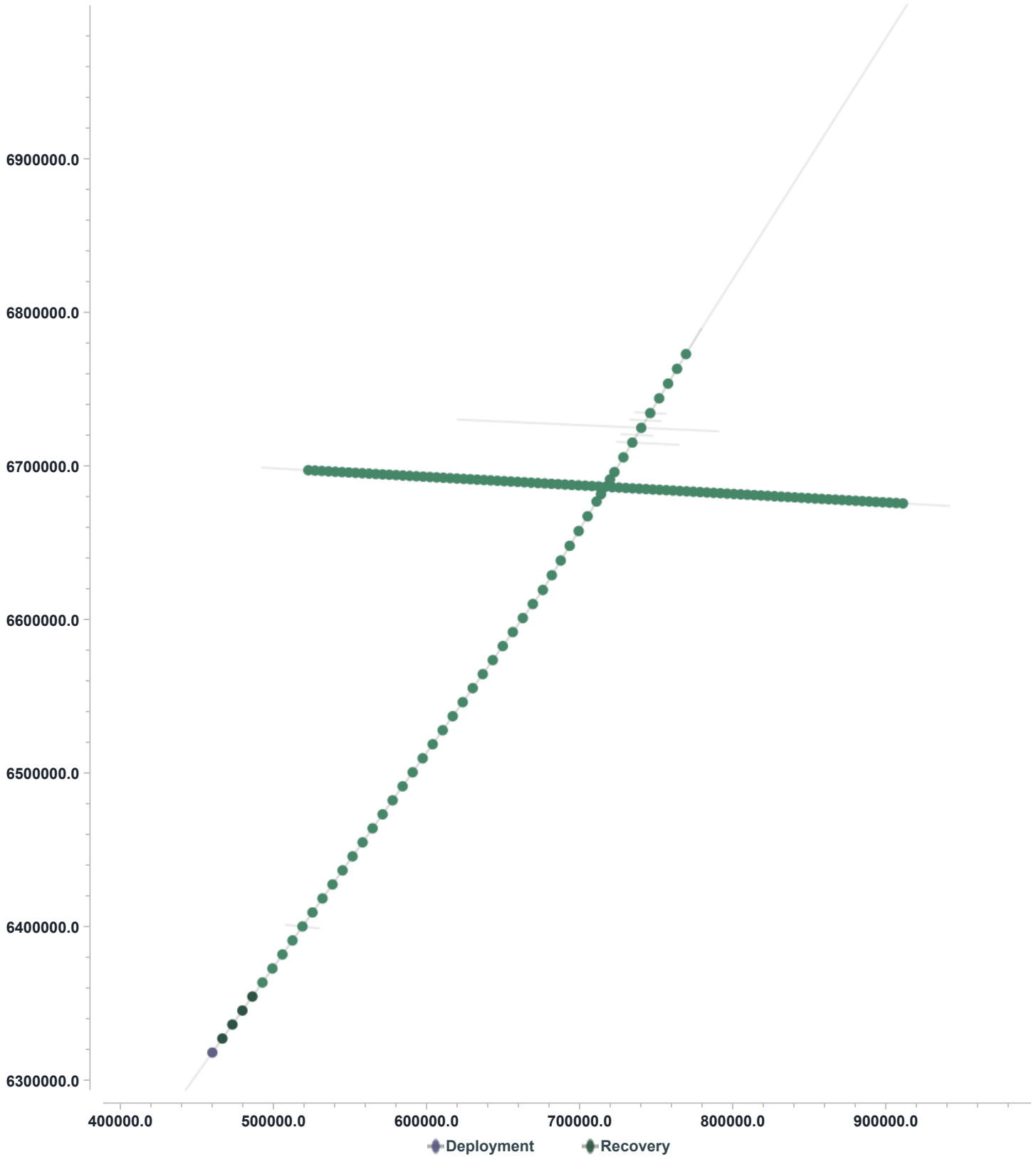
Accepted	Day	Week	Month	Project
Deployment	0	0	140	140
Recovery	4	18	139	139

Production Listing (points)

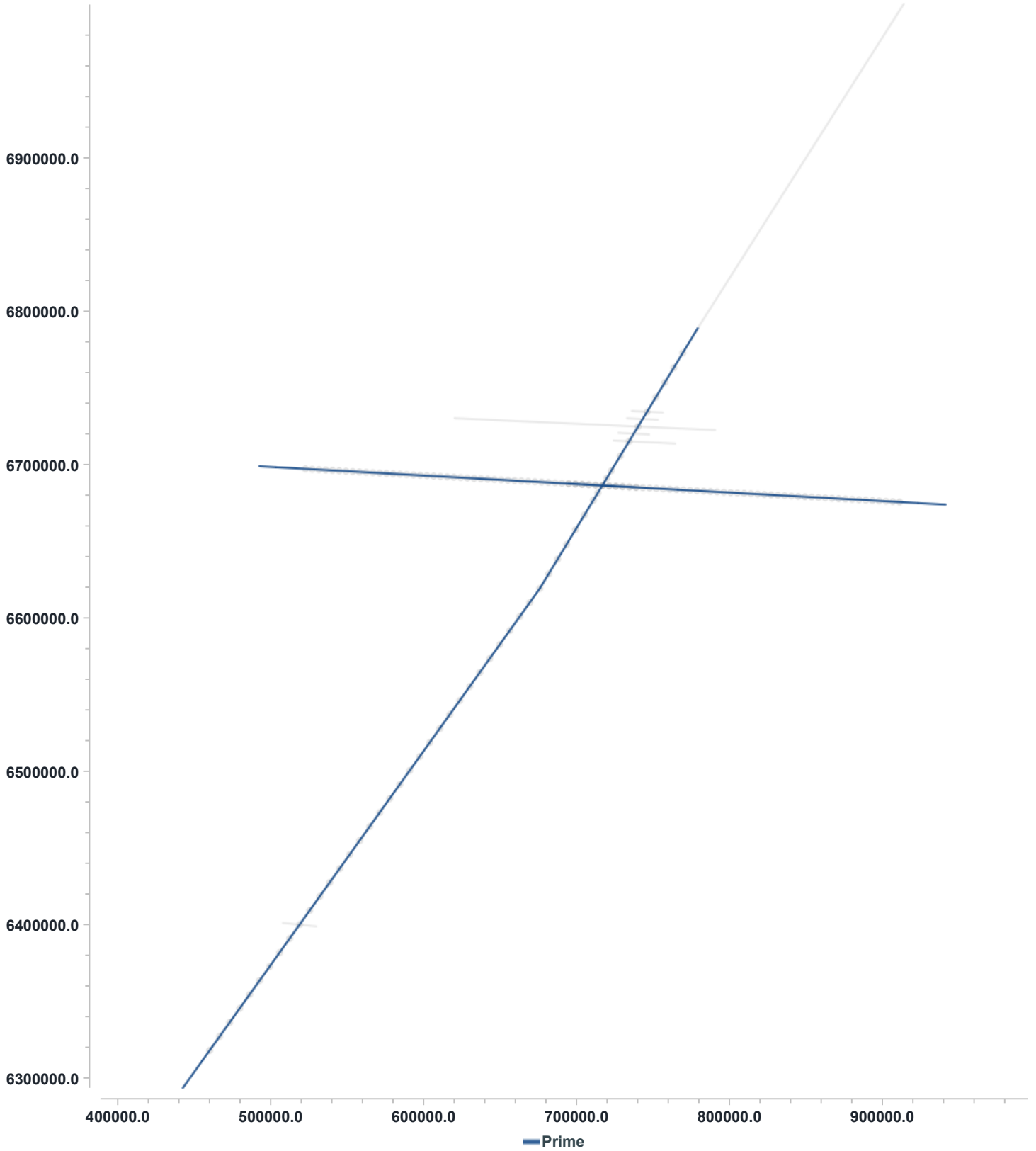
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
18	PA-46	0	0	Recovery	1	0.078	Complete
18	PA-47	0	0	Recovery	1	0.001	Complete
18	PA-48	0	0	Recovery	1	0.001	Complete
18	PA-49	0	0	Recovery	1	0.001	Complete
Total					4		

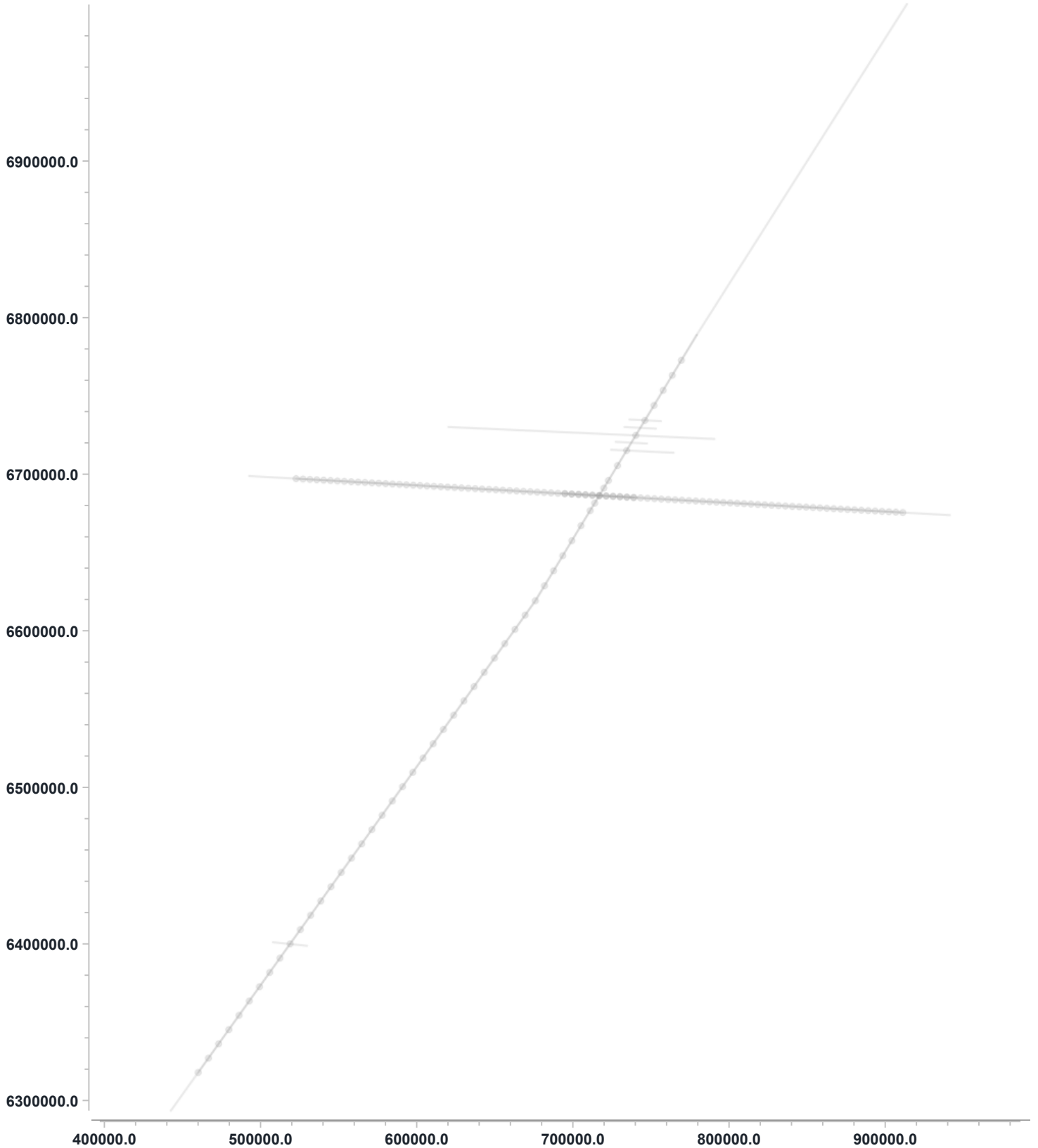
Iceland: Acppt
8/2/2024 - 8/27/2024
OBS_Deployment



Iceland: Acqpt
8/2/2024 - 8/27/2024
Source Only



Iceland: Acppt
8/2/2024 - 8/27/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 27 Aug

8/27/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 27 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	1	1	1.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	2	28	28	24.000	
 Daily Ops Meeting	DOps	1	2	23	23	23.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/28/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Wed 28 Aug



The day started with the streamer going out. Initially there was some trouble shooting for digibird communication, this was solved shortly after starting deployment. Reel 1 was deployed and a ballast test was done. The streamer while close to the surface did not appear to heavy. The streamer was transferred to Reel 4 and deployment continued. Once the streamer was moved to Reel 4, no digibirds could be seen. This created a slow deployment of, deploying 3 birds, stopping, breaking the cable and inserting the test cable to confirm what is in the water is good. This continued up to bird 15 where the problem was then isolated in the water. A section was changed and the bird communication problem was solved. During the trouble shooting process it was observed that the tail of the streamer was quite heavy, specifically around birds 37-39 and 48-51. The decision was made to recover the streamer back to this location and inspect for fishing gear or a bird off the collars. After recovery nothing obvious was discovered. The team then adjusted the streamer ballast plan to take in to account these heavy areas by removing streamer weights. On deployment the ballast was once again checked at the front of reel 1, the vessel was slowed to 3.2-4kts and the streamer was flying straight and true the entire time. With the crew happy with the ballast, the streamer was transferred to reel 4 and deployment continued. At end of day the team was back to deploying the streamer again.

Daily Comment Summaries - Plan for Tomorrow

Wed 28 Aug

Continue to deploy the streamer

Timing Diary (Marcus G Langseth, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	15:37	 Streamer Deployment	SB_PO_STD	15.617
Deploying Streamer				
15:37	24:00	 Streamers	DT_ST	8.383
Down time to Recover Streamer to reballast 2 heavy sections, Birds 37-39 and 48-51.				

Timing Day by Day (Marcus G Langseth, Source Only)

28-Aug	Hours	% Percent
Chargeable Standby	15.617	65.069
Planned Operations	15.617	65.069
Streamer Deployment	15.617	65.069
DownTime	8.383	34.931
Streamers	8.383	34.931
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	17.933	2.767
Source	8.233	1.271
Autofire	2.650	0.409
Deployment	5.583	0.862
Streamers	8.700	1.343
Vessel	1.000	0.154
Chargeable Standby	96.650	14.915
Field Operations	2.533	0.391
Planned Operations	39.667	6.121
Source Deployment	14.067	2.171
Source Recovery	8.433	1.301
Streamer Deployment	17.167	2.649
Tests	7.267	1.121
Transit	24.600	3.796
Weather	22.583	3.485
Mobilisation	90.400	13.951
Mob Ashore	58.000	8.951
Transit to Prospect	32.400	5.000
Acquisition	443.017	68.367
Prime	130.550	20.147
Receiver Deployment/Recovery	312.467	48.220
Free Fall OBS	312.467	48.220
Receiver Deployment	111.933	17.274
Receiver Recovery	194.867	30.072
Transit	5.667	0.874
Total	648.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		

Comment
Source Only Shot in Time Mode: 60 seconds per shot

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m

MCS 15000m 50m					
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	1092.75	1092.75
Combined	0	0	1092.75	1092.75

Production Totals (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	0	0	0	0
Combined	0	0	0	0

Production Listing (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

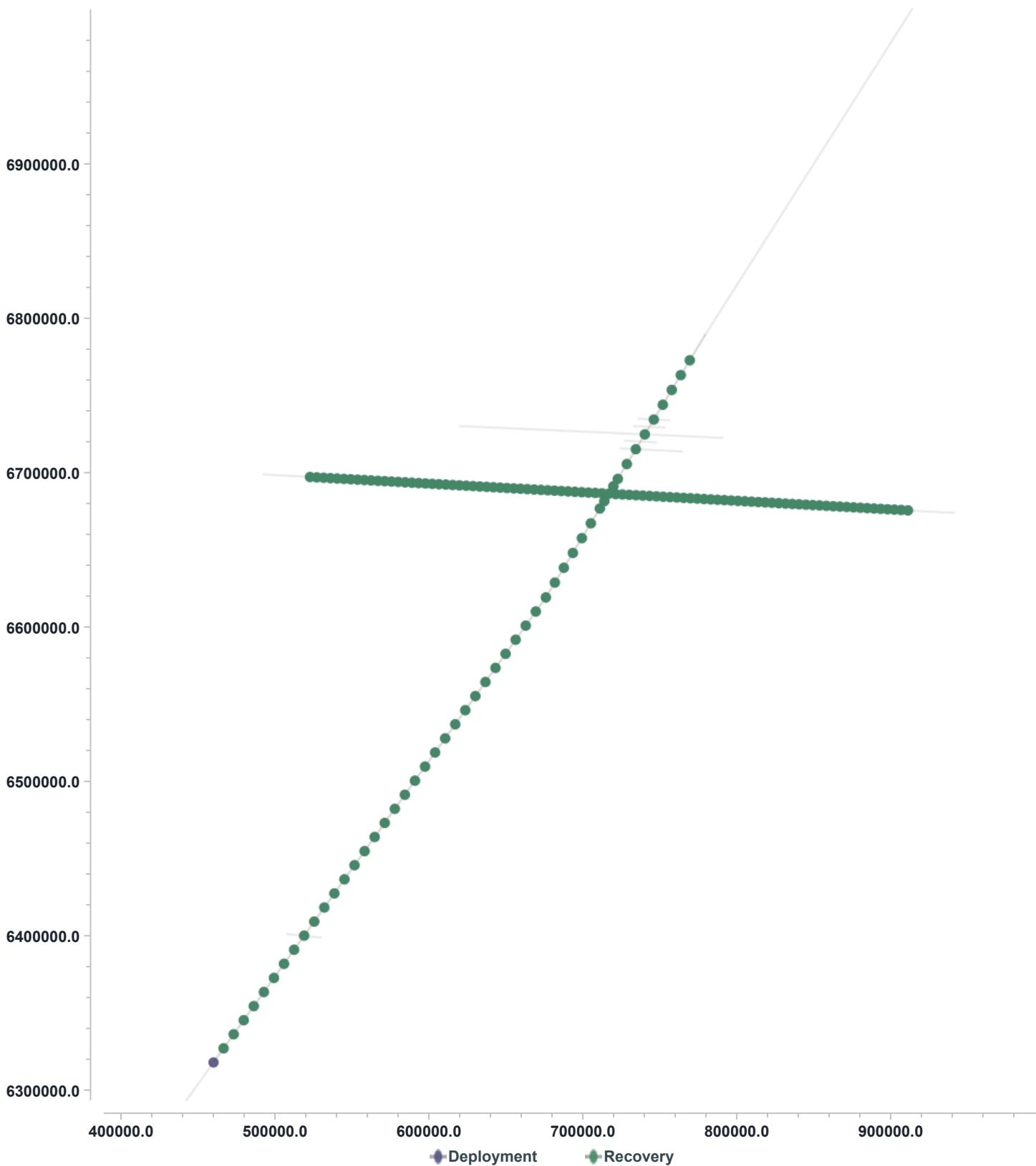
Accepted	Day	Week	Month	Project
Deployment	0	0	140	140
Recovery	0	18	139	139

Production Listing (points)

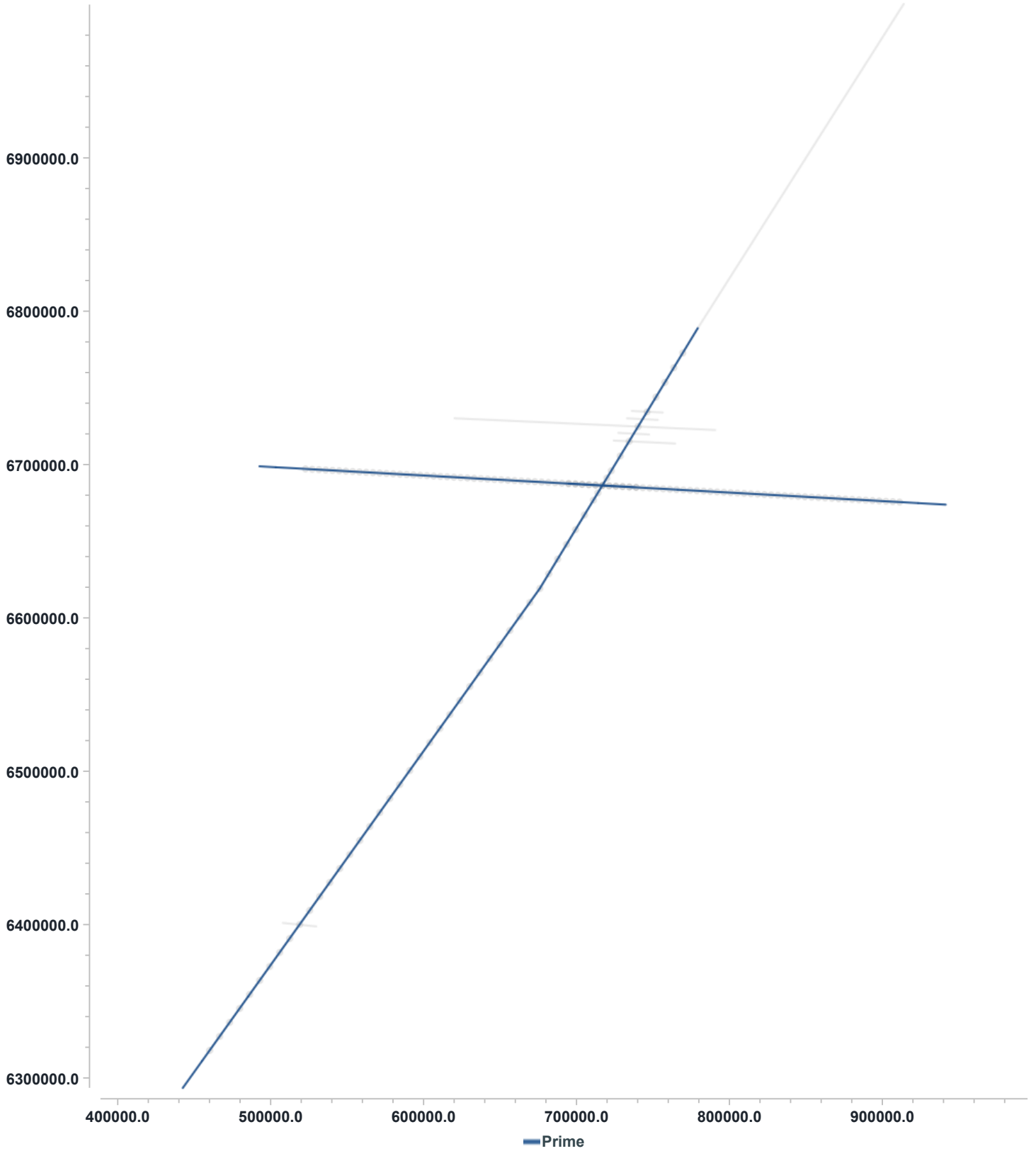
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

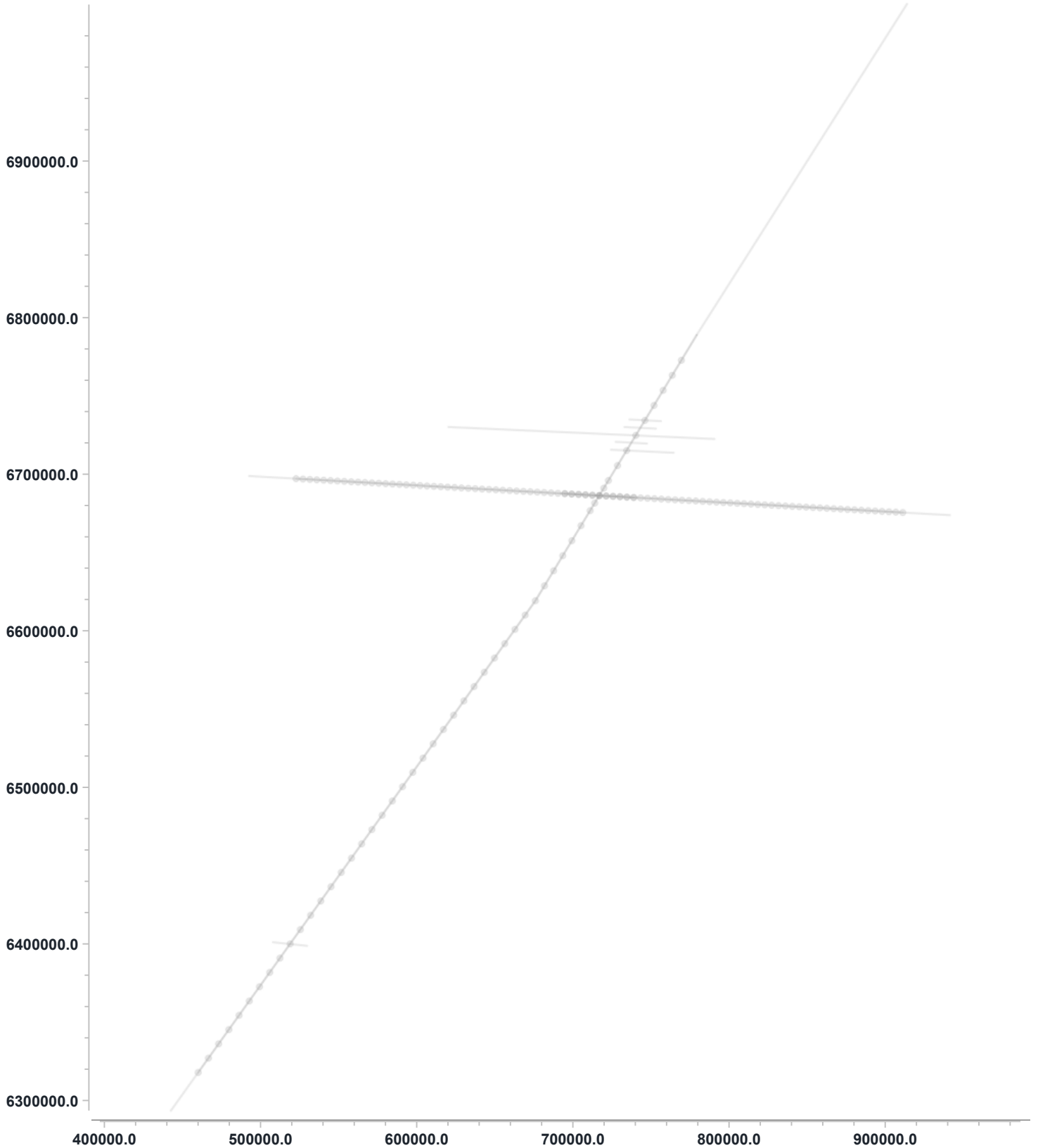
Iceland: Acppt
8/2/2024 - 8/28/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 8/28/2024
Source Only



Iceland: Acppt
8/2/2024 - 8/28/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 28 Aug

8/28/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 28 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth










Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
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HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	3	3	3.000	
Abandon Ship Drill	AS	0	0	1	1	1.000	
Fire Drill	Fi	0	0	1	1	1.000	
MOB Drill	MOB	0	0	1	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Meetings	Mtgs	0	2	28	28	24.000	
 Daily Ops Meeting	DOps	0	2	23	23	23.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/29/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Thu 29 Aug

At start of day the team was deploying the streamer on reel 4.
Around 5:30 electrical leakage and telemetry problems were seen around bird 3.
This area was trouble shot for multiple hours with 4 sections in the having to be removed.
Deployment continued at 10:33.
By 11:45 the streamer was in position and the guns were started.

A fire and abandon ship drill were held at 12:30.

All guns were deployed and tested by 15:30.

Line PA was started at 17:03 with full volume, and a 100% working streamer.

At end of day the vessel was on line PA heading north at maximum speed.



Daily Comment Summaries - Plan for Tomorrow

Thu 29 Aug

Continue on line PA.
Monitor weather for the front moving down from the North.

Timing Diary (Marcus G Langseth, MCS 15000m 50m, Source Only)

Start	End	Category	Code	Duration (hrs)
00:00	01:24	■ Streamers	DT_ST	1.400
Down time to Recover Streamer to reballast 2 heavy sections, Birds 37-39 and 48-51.				
01:24	05:26	■ Streamer Deployment	SB_PO_STD	4.033
Deploying Streamer				
05:26	10:33	■ Streamers	DT_ST	5.117
Downtime due electrical leakage on multiple sections				
10:33	11:45	■ Streamer Deployment	SB_PO_STD	1.200
Deploying Streamer				
11:45	15:27	■ Source Deployment	SB_PO_SOD	3.700
Chargeable Standby related to Planned Operations due to Source Deployment				
15:27	17:03	■ Transit	SB_TRT	1.600
Transit to Start of Line PA				
17:03	24:00	■ Prime	AC_PP	6.950
Seq: 0 MGL2408007MPA1				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m, Source Only)

29-Aug	Hours	% Percent
Acquisition	6.950	28.958
Prime	6.950	28.958
Chargeable Standby	10.533	43.889
Planned Operations	8.933	37.222
Source Deployment	3.700	15.417
Streamer Deployment	5.233	21.806
Transit	1.600	6.667
DownTime	6.517	27.153
Streamers	6.517	27.153
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	24.450	3.638
Source	8.233	1.225
Autofire	2.650	0.394
Deployment	5.583	0.831
Streamers	15.217	2.264
Vessel	1.000	0.149
Chargeable Standby	107.183	15.950
Field Operations	2.533	0.377
Planned Operations	48.600	7.232
Source Deployment	17.767	2.644

Category	Hours	% Percent
Source Recovery	8.433	1.255
Streamer Deployment	22.400	3.333
Tests	7.267	1.081
Transit	26.200	3.899
Weather	22.583	3.361
Mobilisation	90.400	13.452
Mob Ashore	58.000	8.631
Transit to Prospect	32.400	4.821
Acquisition	449.967	66.959
Prime	137.500	20.461
Receiver Deployment/Recovery	312.467	46.498
Free Fall OBS	312.467	46.498
Receiver Deployment	111.933	16.657
Receiver Recovery	194.867	28.998
Transit	5.667	0.843
Total	672.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accept Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	1092.75	1092.75
Combined	0	0	1092.75	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	59.00	59.00	59.00	59.00
Combined	59.00	59.00	59.00	59.00

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

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
7	MCS_P-A_1	35.6	248	1428	Prime	59.00	4.584	Midnight	Part
Total						59.00			

Production Totals (points)

OBS_Deployment

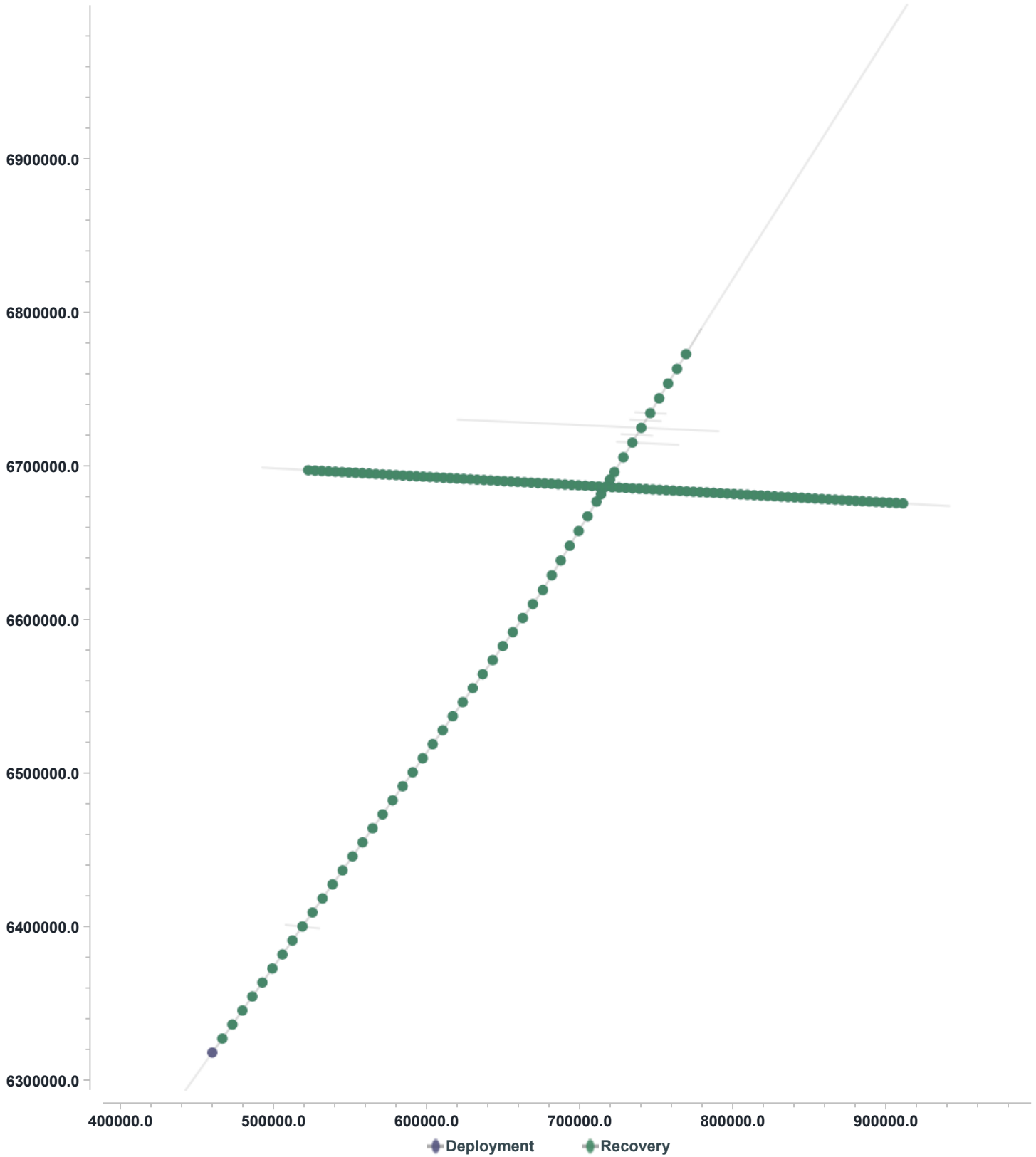
Accepted	Day	Week	Month	Project
Deployment	0	0	140	140
Recovery	0	18	139	139

Production Listing (points)

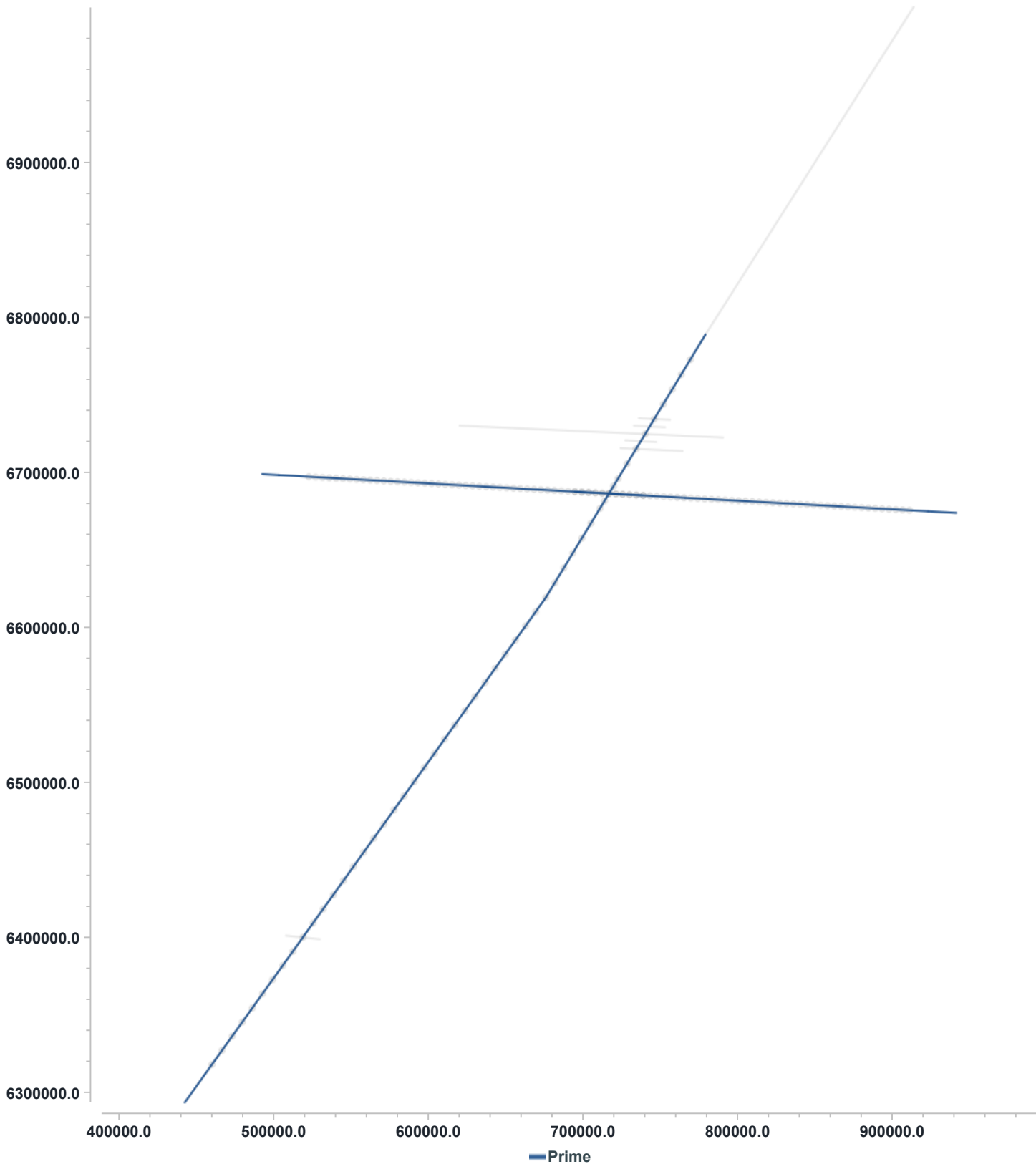
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

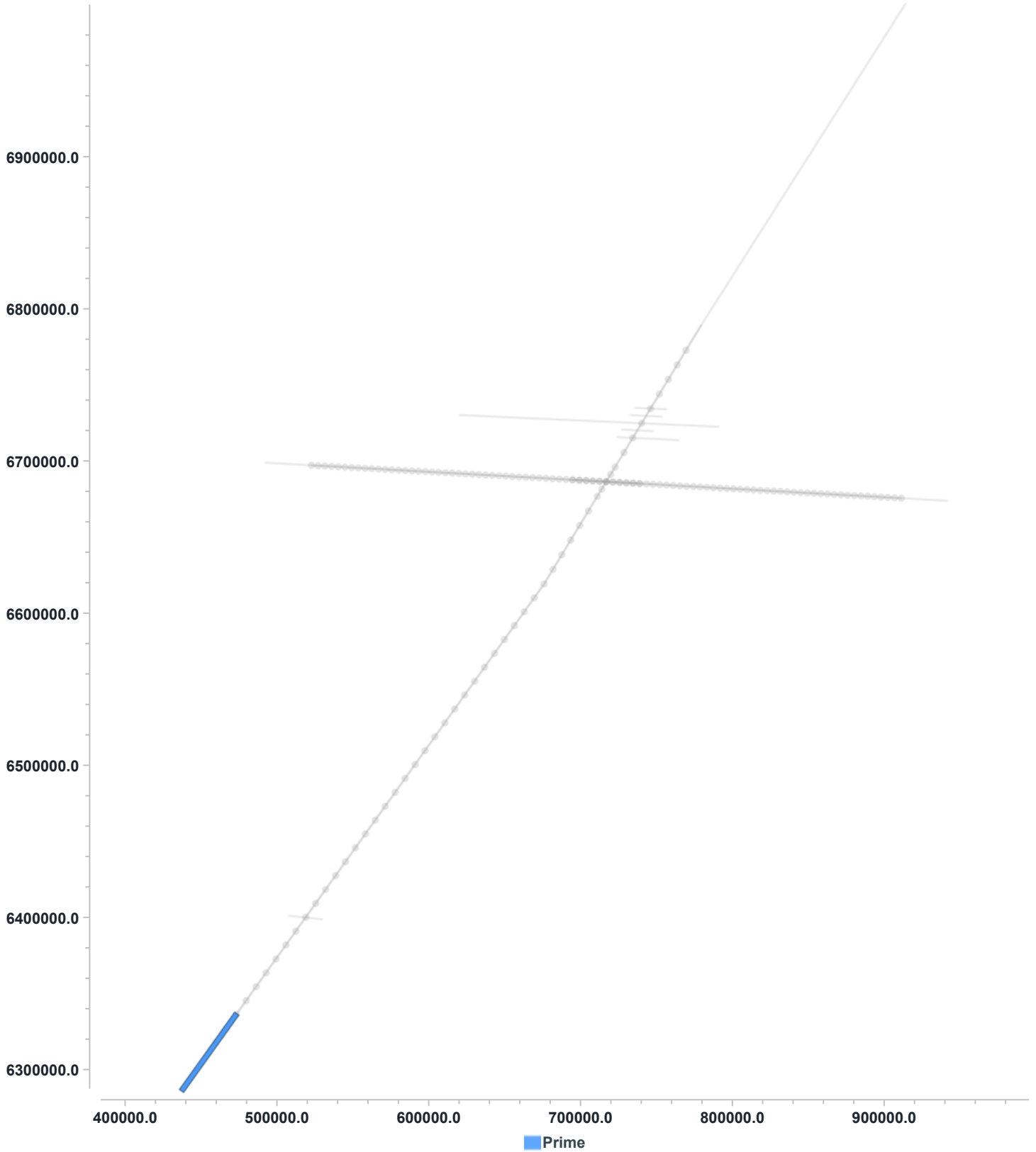
Iceland: Acppt
8/2/2024 - 8/29/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 8/29/2024
Source Only



Iceland: Accpt
8/2/2024 - 8/29/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 29 Aug

8/29/2024

Page 8

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 29 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic




PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth

Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:00	13:00	 Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			
13:10	14:10	 Fire Drill	Drls_Fi
HSE - Fire Drill			
14:10	15:10	 Abandon Ship Drill	Drls_AS
HSE - Abandon Ship Drill			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	2	2	5	5	5.000	
Abandon Ship Drill	AS	1	1	2	2	2.000	
Fire Drill	Fi	1	1	2	2	2.000	
MOB Drill	MOB	0	0	1	1	1.000	
Meetings	Mtgs	1	3	29	29	25.000	
Daily Ops Meeting	DOps	1	3	24	24	24.000	
Start-up Meeting	StUp	0	0	1	1	1.000	
Toolbox Meetings	Tbox	0	0	3	3		
Vessel HSE meeting	VHse	0	0	1	1		
Training	Trng	0	0	4	4	4.000	
Fire Team Training	FTT	0	0	2	2	2.000	
Other Training	OT	0	0	1	1	1.000	
Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/30/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Fri 30 Aug

A full day of acquisition .
 Gun 3-9 was disabled due to a loss of sensor signal.
 The posnet tailbuoy positing was lost, the new 4DX system was trouble shot and within a few hours the tailbuoy position was back and solid.
 Weather is the main topic of discussion, what will the 31st and 1st bring.

Daily Comment Summaries - Plan for Tomorrow

Fri 30 Aug

Coninue on line PA
 A meeting will be held at 6:30 to look at the latest weather and decided the ops for the next couple of days.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Prime	AC_PP	24.000
Seq: 0 MGL2408007MPA1				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

30-Aug	Hours	% Percent
Acquisition	24.000	100.000
Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	24.450	3.513
Source	8.233	1.183
Autofire	2.650	0.381
Deployment	5.583	0.802
Streamers	15.217	2.186
Vessel	1.000	0.144
Chargeable Standby	107.183	15.400
Field Operations	2.533	0.364
Planned Operations	48.600	6.983
Source Deployment	17.767	2.553
Source Recovery	8.433	1.212
Streamer Deployment	22.400	3.218
Tests	7.267	1.044
Transit	26.200	3.764

Category	Hours	% Percent
Weather	22.583	3.245
Mobilisation	90.400	12.989
Mob Ashore	58.000	8.333
Transit to Prospect	32.400	4.655
Acquisition	473.967	68.099
Prime	161.500	23.204
Receiver Deployment/Recovery	312.467	44.895
Free Fall OBS	312.467	44.895
Receiver Deployment	111.933	16.082
Receiver Recovery	194.867	27.998
Transit	5.667	0.814
Total	696.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	1092.75	1092.75
Combined	0	0	1092.75	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	207.55	266.55	266.55	266.55

8/30/2024

Page 3

Accepted km	Day	Week	Month	Project
Combined	207.55	266.55	266.55	266.55

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

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
7	MCS_P-A_1	35.6	1429	5579	Prime	207.55	4.650	Midnight	Part
Total						207.55			

Production Totals (points)

OBS_Deployment

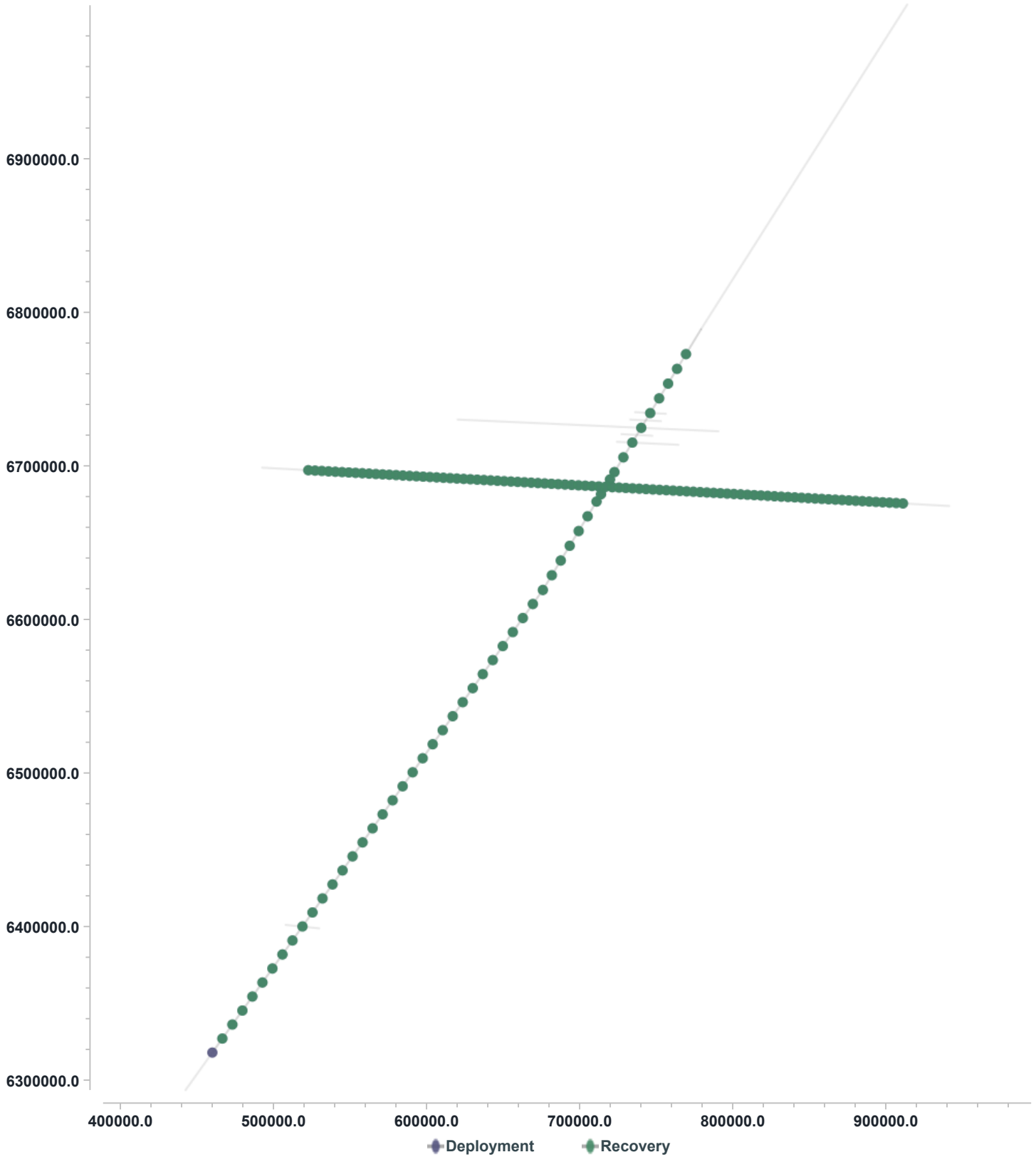
Accepted	Day	Week	Month	Project
Deployment	0	0	140	140
Recovery	0	18	139	139

Production Listing (points)

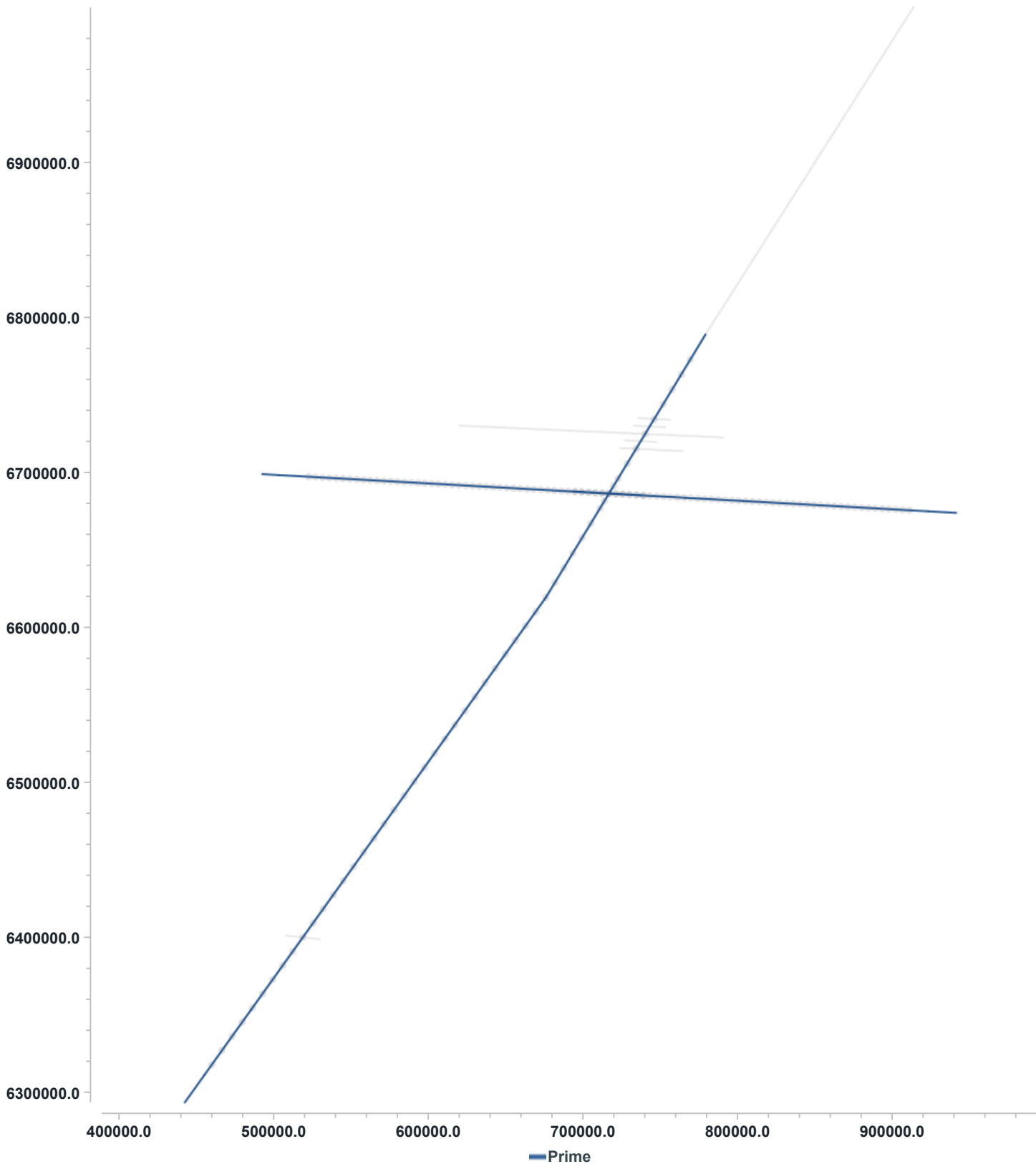
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

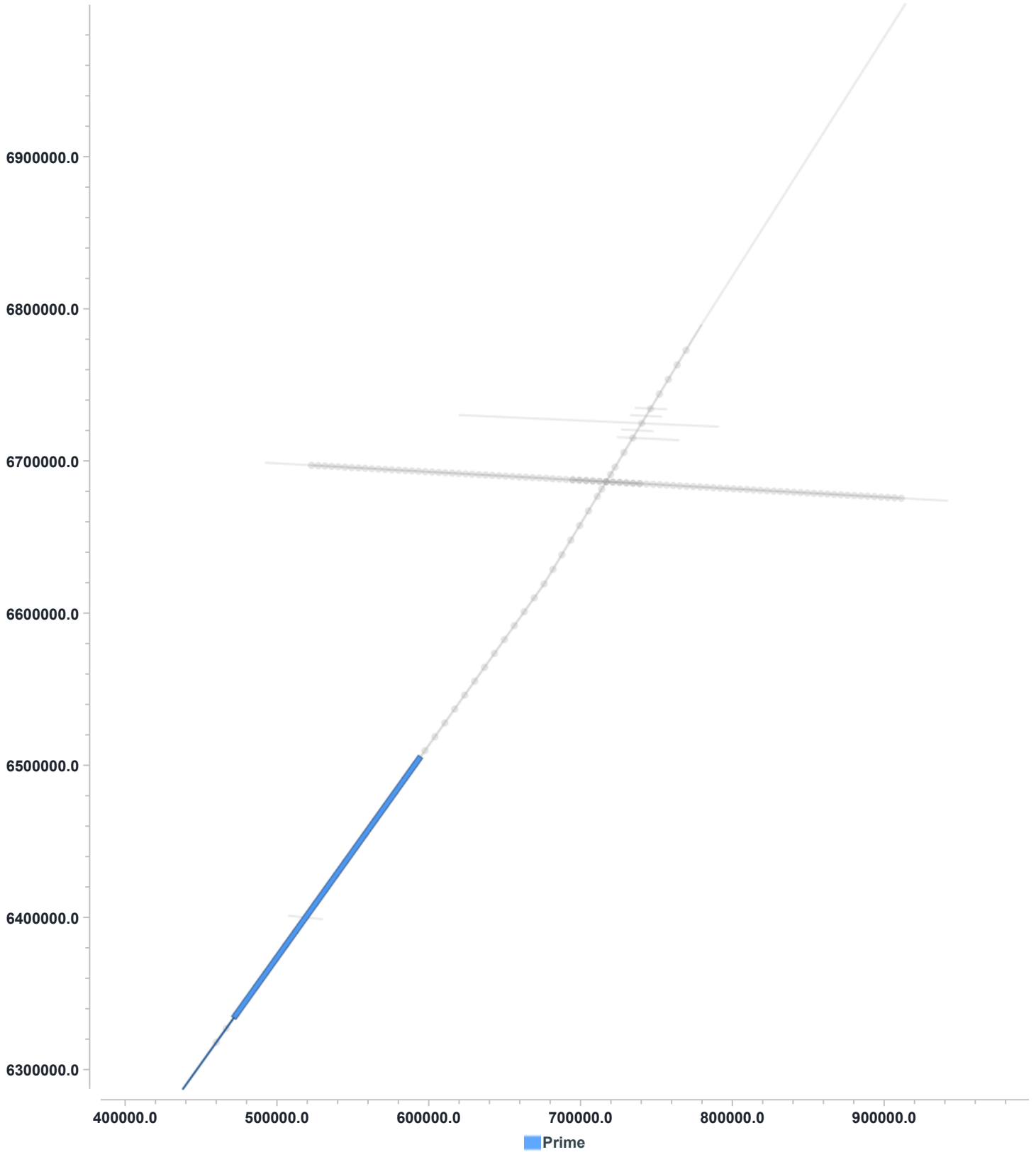
Iceland: Accpt
8/2/2024 - 8/30/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 8/30/2024
Source Only



Iceland: Accpt
8/2/2024 - 8/30/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 30 Aug

8/30/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 30 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth












Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	2	5	5	5.000	
Abandon Ship Drill	AS	0	1	2	2	2.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	1	2	2	2.000	
 MOB Drill	MOB	0	0	1	1	1.000	
 Meetings	Mtgs	1	4	30	30	26.000	
 Daily Ops Meeting	DOps	1	4	25	25	25.000	
 Start-up Meeting	StUp	0	0	1	1	1.000	
 Toolbox Meetings	Tbox	0	0	3	3		
 Vessel HSE meeting	VHse	0	0	1	1		
 Training	Trng	0	0	4	4	4.000	
 Fire Team Training	FTT	0	0	2	2	2.000	
 Other Training	OT	0	0	1	1	1.000	
 Vessel Induction Tours	VIT	0	0	1	1	1.000	

8/31/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sat 31 Aug

At start of day the vessel was headed North on line PA acquiring data.
 At 6:30 the team met to discuss the weather front that is coming in from the South West.
 It was decided based on the latest forecasts, remaining project time, and project goals that the best course of action would be to recover all the gear and transit to the Western end of the PFW line.
 When safe to do so the gear will be deployed and lines PFW and PFe will be acquired first.
 The line was ended around breakfast and gear recovery started soon after.
 All gear was on-board just before dinner and the vessel started to transit to the North West.
 All teams on the deck agreed that it was good to start recovery when we did as the seas were really picking up by the time the tailbuoy reached the vessel.

Daily Comment Summaries - Plan for Tomorrow

Sat 31 Aug

Standby for, and monitor the weather

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	07:27	Prime	AC_PP	7.450
Seq: 7				
07:27	24:00	Weather	SB_WX	16.550
Standing by for weather				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

31-Aug	Hours	% Percent
Acquisition	7.450	31.042
Prime	7.450	31.042
Chargeable Standby	16.550	68.958
Weather	16.550	68.958
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	24.450	3.396
Source	8.233	1.144
Autofire	2.650	0.368
Deployment	5.583	0.775
Streamers	15.217	2.113
Vessel	1.000	0.139
Chargeable Standby	123.733	17.185
Field Operations	2.533	0.352
Planned Operations	48.600	6.750

Category	Hours	% Percent
Source Deployment	17.767	2.468
Source Recovery	8.433	1.171
Streamer Deployment	22.400	3.111
Tests	7.267	1.009
Transit	26.200	3.639
Weather	39.133	5.435
Mobilisation	90.400	12.556
Mob Ashore	58.000	8.056
Transit to Prospect	32.400	4.500
Acquisition	481.417	66.863
Prime	168.950	23.465
Receiver Deployment/Recovery	312.467	43.398
Free Fall OBS	312.467	43.398
Receiver Deployment	111.933	15.546
Receiver Recovery	194.867	27.065
Transit	5.667	0.787
Total	720.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	1092.75	1092.75

8/31/2024

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Accepted km	Day	Week	Month	Project
Combined	0	0	1092.75	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	62.10	328.65	328.65	328.65
Combined	62.10	328.65	328.65	328.65

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

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
7	MCS_P-A_1	35.6	5580	6821	Prime	62.10	4.621	Complete	Complete
Total						62.10			

Production Totals (points)

OBS_Deployment

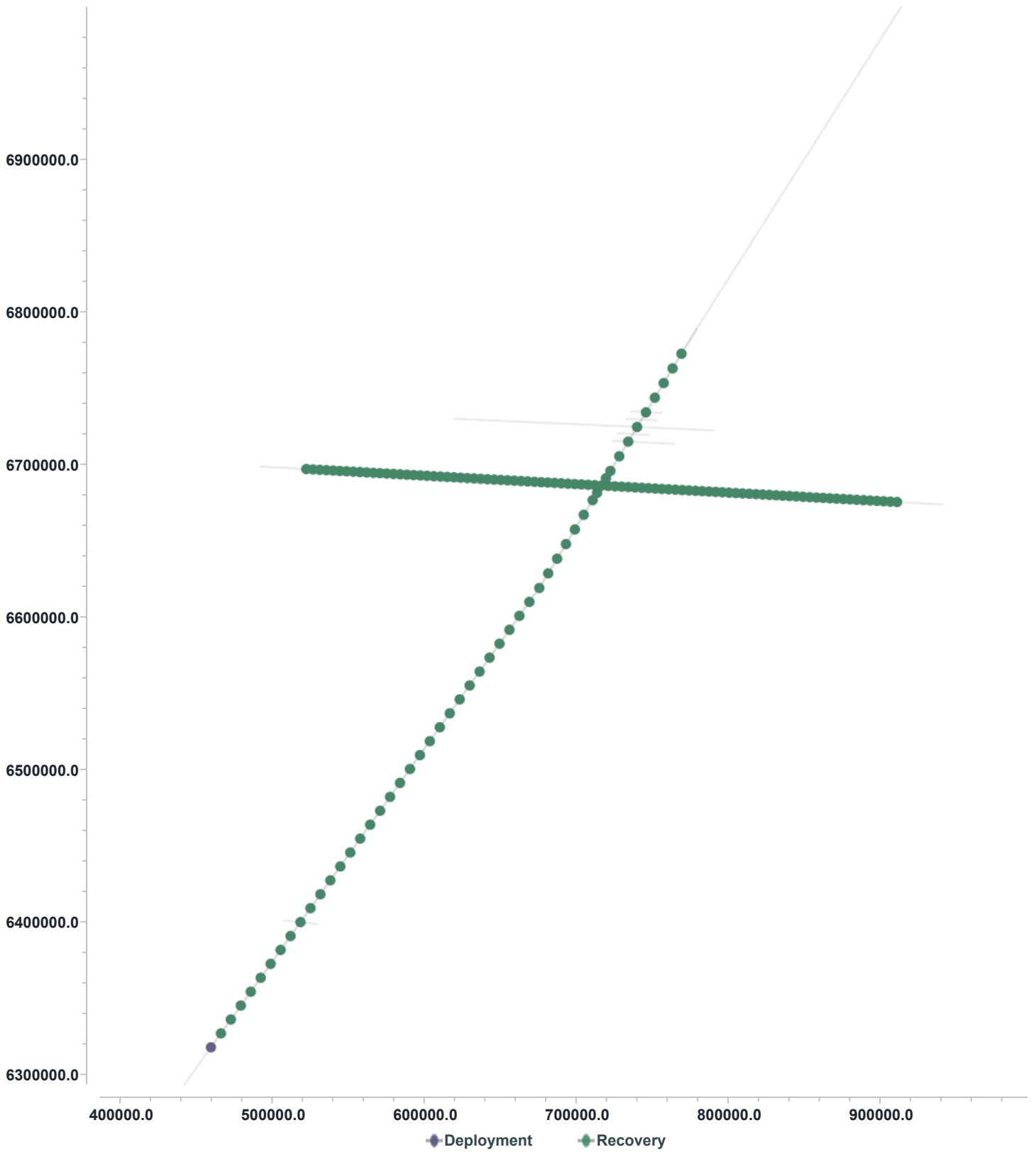
Accepted	Day	Week	Month	Project
Deployment	0	0	140	140
Recovery	0	18	139	139

Production Listing (points)

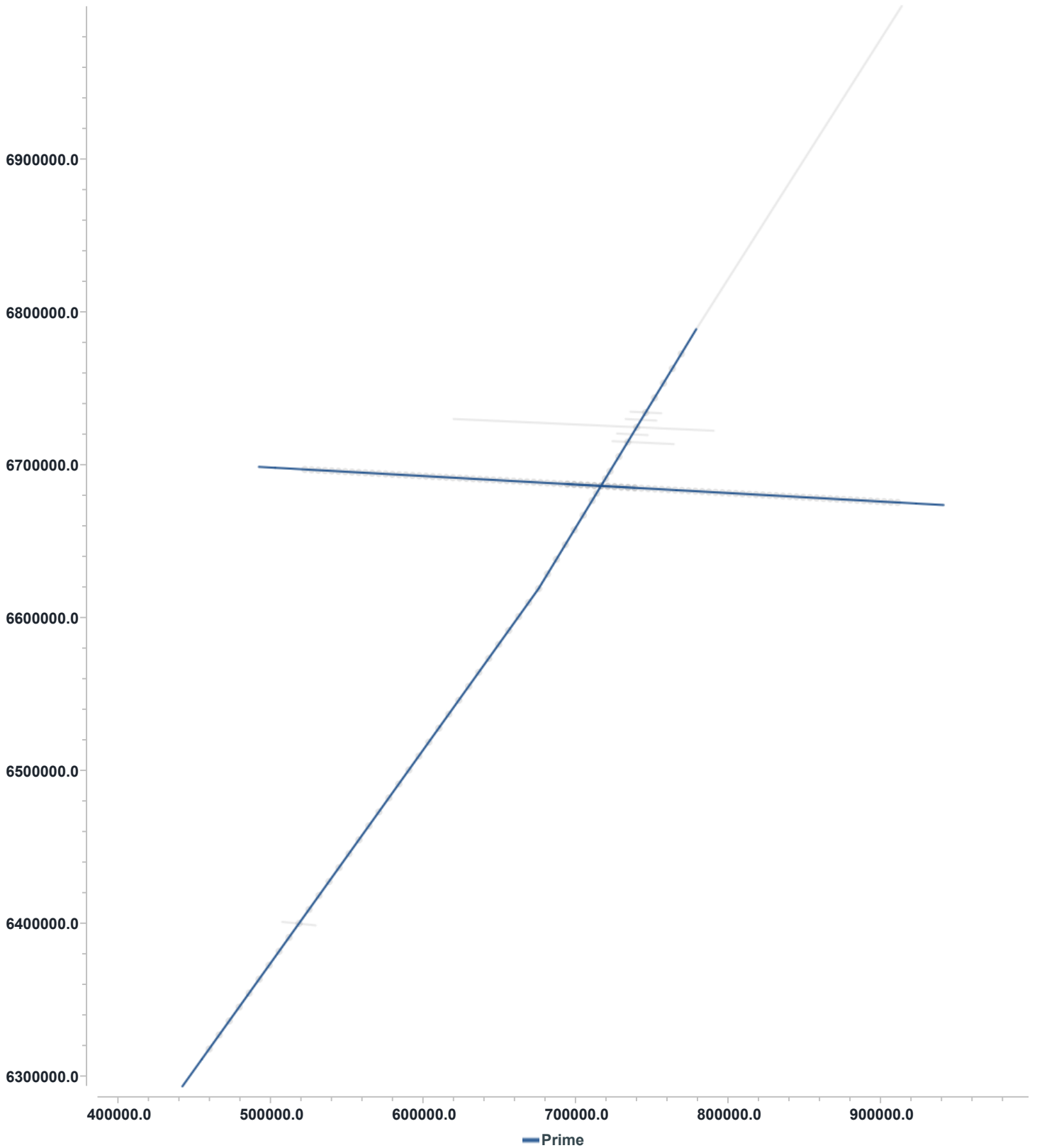
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

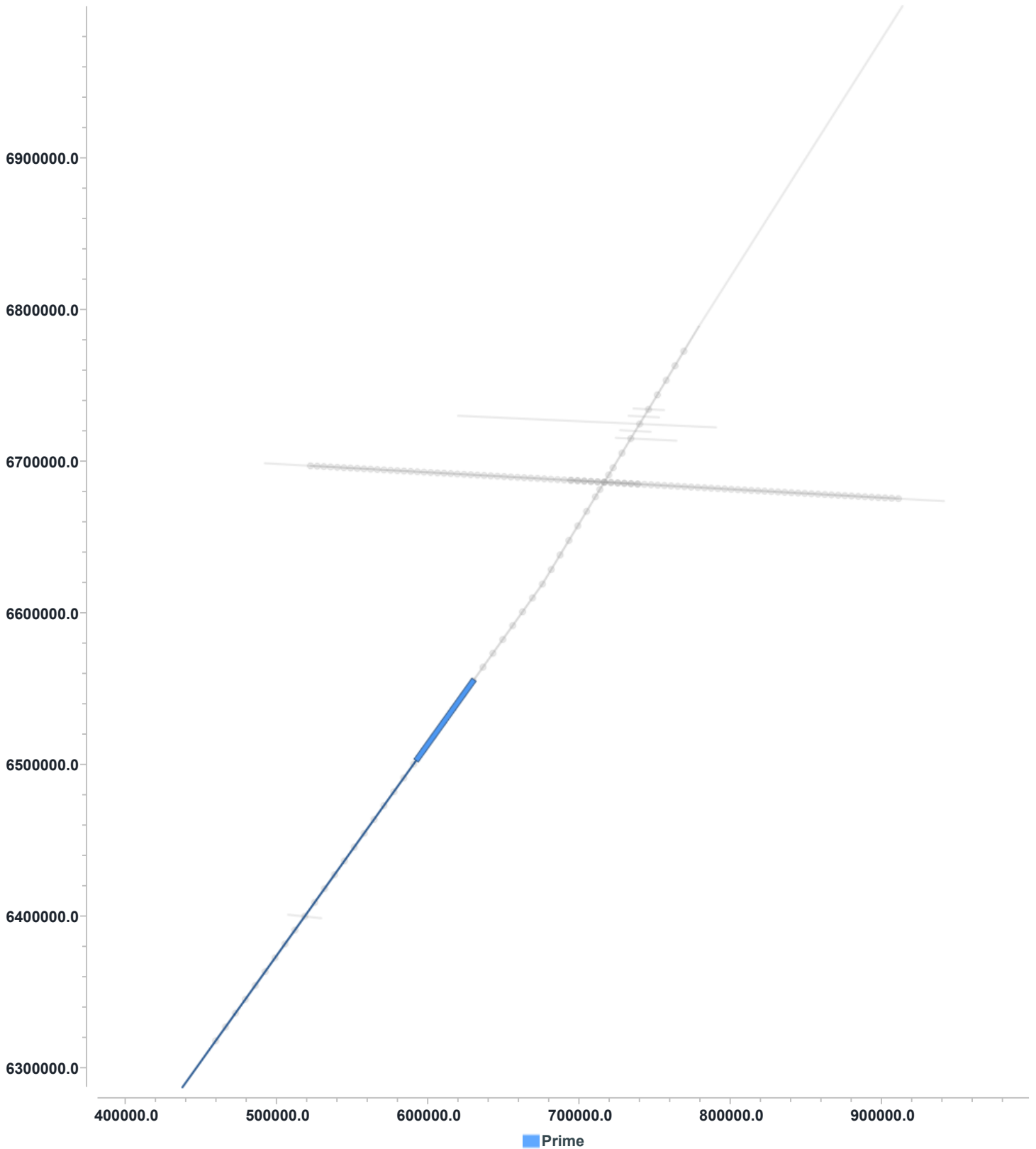
Iceland: Acppt
8/2/2024 - 8/31/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 8/31/2024
Source Only



Iceland: Accpt
8/2/2024 - 8/31/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 31 Aug

8/31/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 31 Aug

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
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 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
06:05	07:05	Daily Ops Meeting	Mtgs_DOps
Meeting to discuss the weather			
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

Daily Total Category	Code	Count
Task, Hazard, Control	Re_Con_THC	1
Not enough milk in the mess room		

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	2	5	5	5.000	
Abandon Ship Drill	AS	0	1	2	2	2.000	
Fire Drill	Fi	0	1	2	2	2.000	
MOB Drill	MOB	0	0	1	1	1.000	
Meetings	Mtgs	2	7	33	33	29.000	
Daily Ops Meeting	DOps	2	7	28	28	28.000	
Start-up Meeting	StUp	0	0	1	1	1.000	
Toolbox Meetings	Tbox	0	0	3	3		
Vessel HSE meeting	VHse	0	0	1	1		
Training	Trng	0	0	4	4	4.000	
Fire Team Training	FTT	0	0	2	2	2.000	
Other Training	OT	0	0	1	1	1.000	
Vessel Induction Tours	VIT	0	0	1	1	1.000	
Reports	Re	1	1	1	1		
Contractor	Con	1	1	1	1		
Task, Hazard, Control	THC	1	1	1	1		

9/1/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sun 01 Sep

The vessel has been standing by for weather all day.

Daily Comment Summaries - Plan for Tomorrow

Sun 01 Sep

Stand by for weather.
 Monitor for best time for gear deployment.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Weather	SB_WX	24.000
Standing by for weather				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

1-Sep	Hours	% Percent
Chargeable Standby	24.000	100.000
Weather	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	24.450	3.286
Source	8.233	1.107
Autofire	2.650	0.356
Deployment	5.583	0.750
Streamers	15.217	2.045
Vessel	1.000	0.134
Chargeable Standby	147.733	19.857
Field Operations	2.533	0.341
Planned Operations	48.600	6.532
Source Deployment	17.767	2.388
Source Recovery	8.433	1.134
Streamer Deployment	22.400	3.011
Tests	7.267	0.977
Transit	26.200	3.522
Weather	63.133	8.486
Mobilisation	90.400	12.151
Mob Ashore	58.000	7.796

Category	Hours	% Percent
Transit to Prospect	32.400	4.355
Acquisition	481.417	64.707
Prime	168.950	22.708
Receiver Deployment/Recovery	312.467	41.998
Free Fall OBS	312.467	41.998
Receiver Deployment	111.933	15.045
Receiver Recovery	194.867	26.192
Transit	5.667	0.762
Total	744.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	0	1092.75
Combined	0	0	0	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	0	328.65	0	328.65
Combined	0	328.65	0	328.65

9/1/2024

Page 3

Production Listing (Accpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

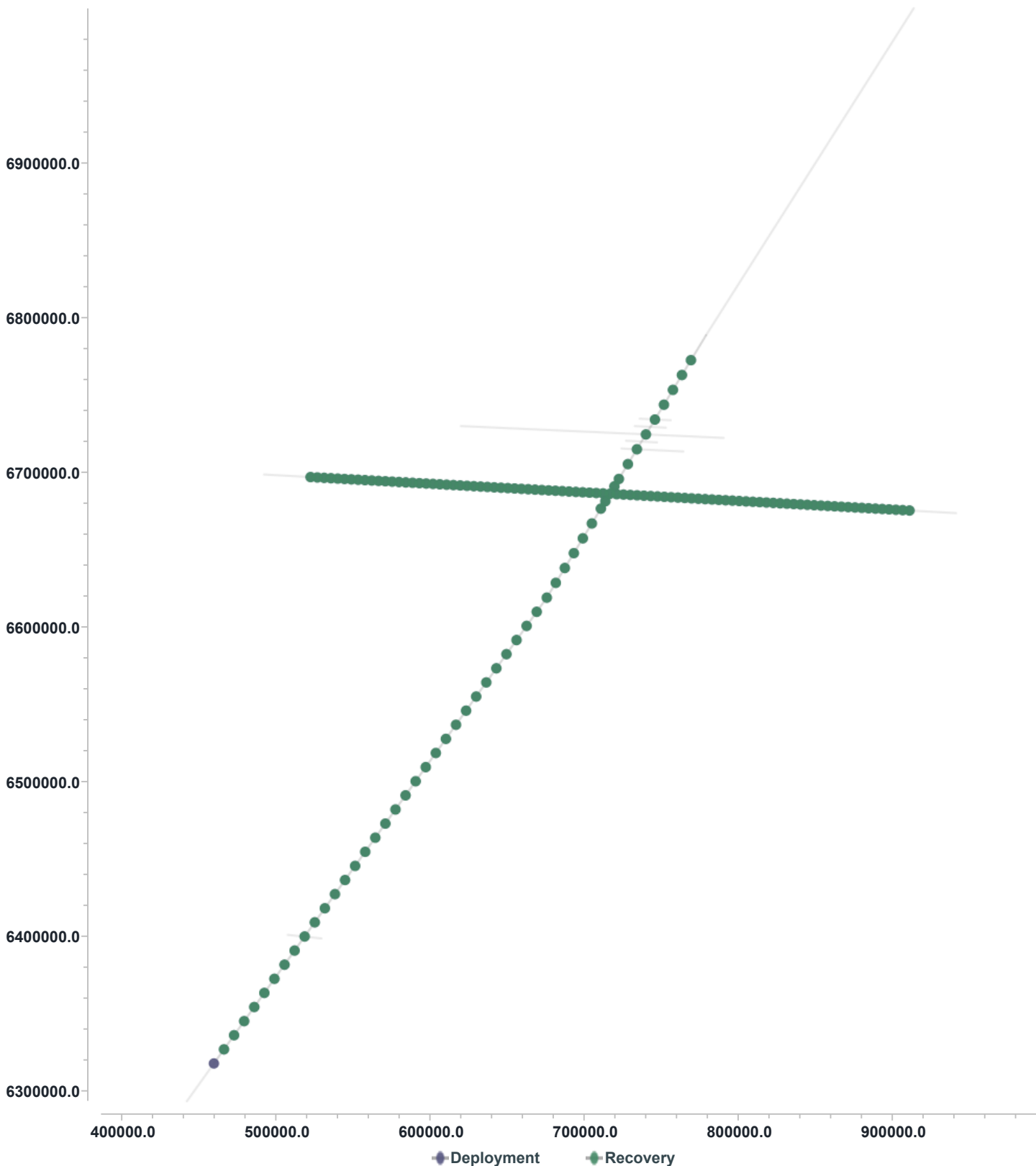
Accepted	Day	Week	Month	Project
Deployment	0	0	0	140
Recovery	0	18	0	139

Production Listing (points)

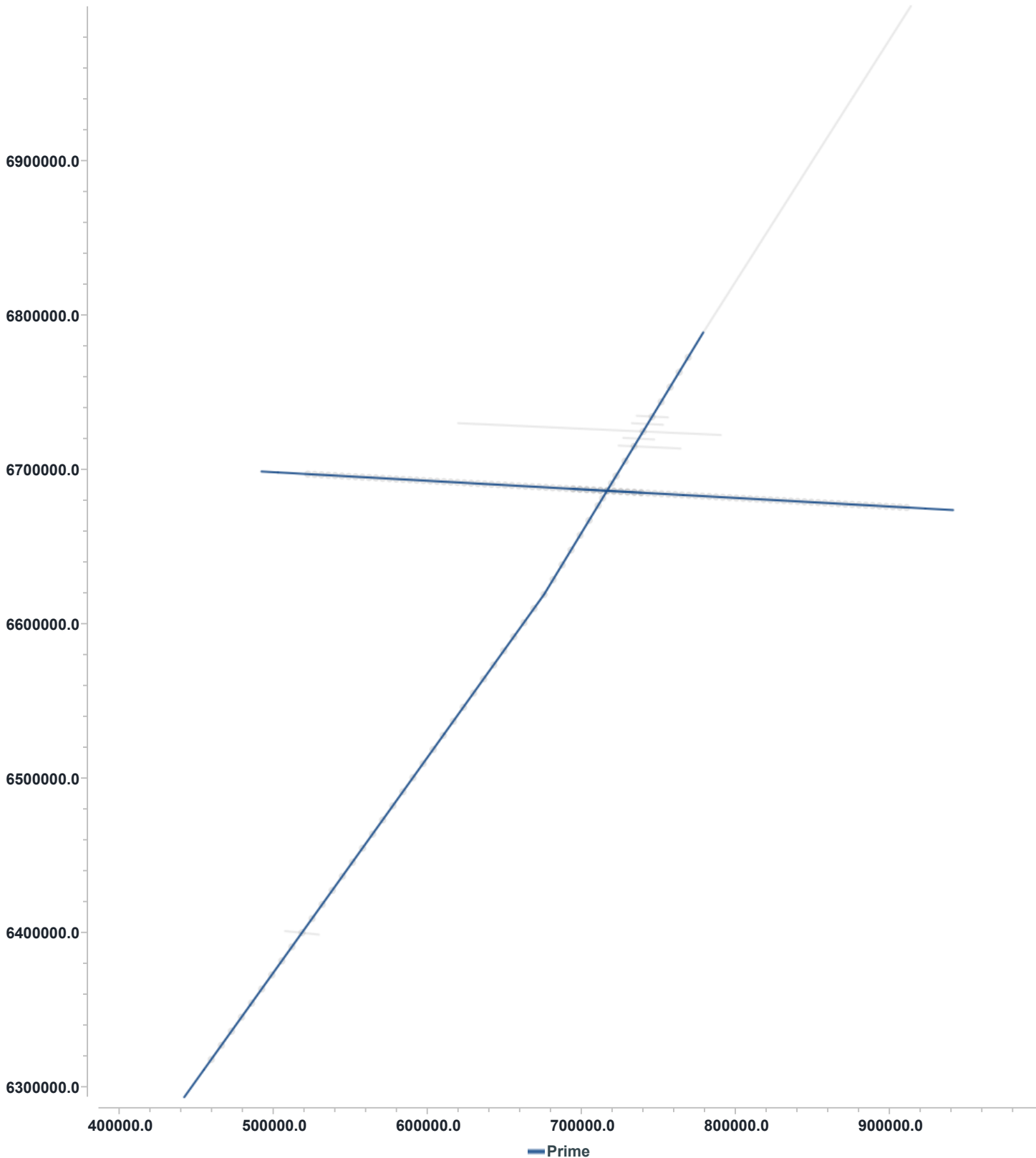
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

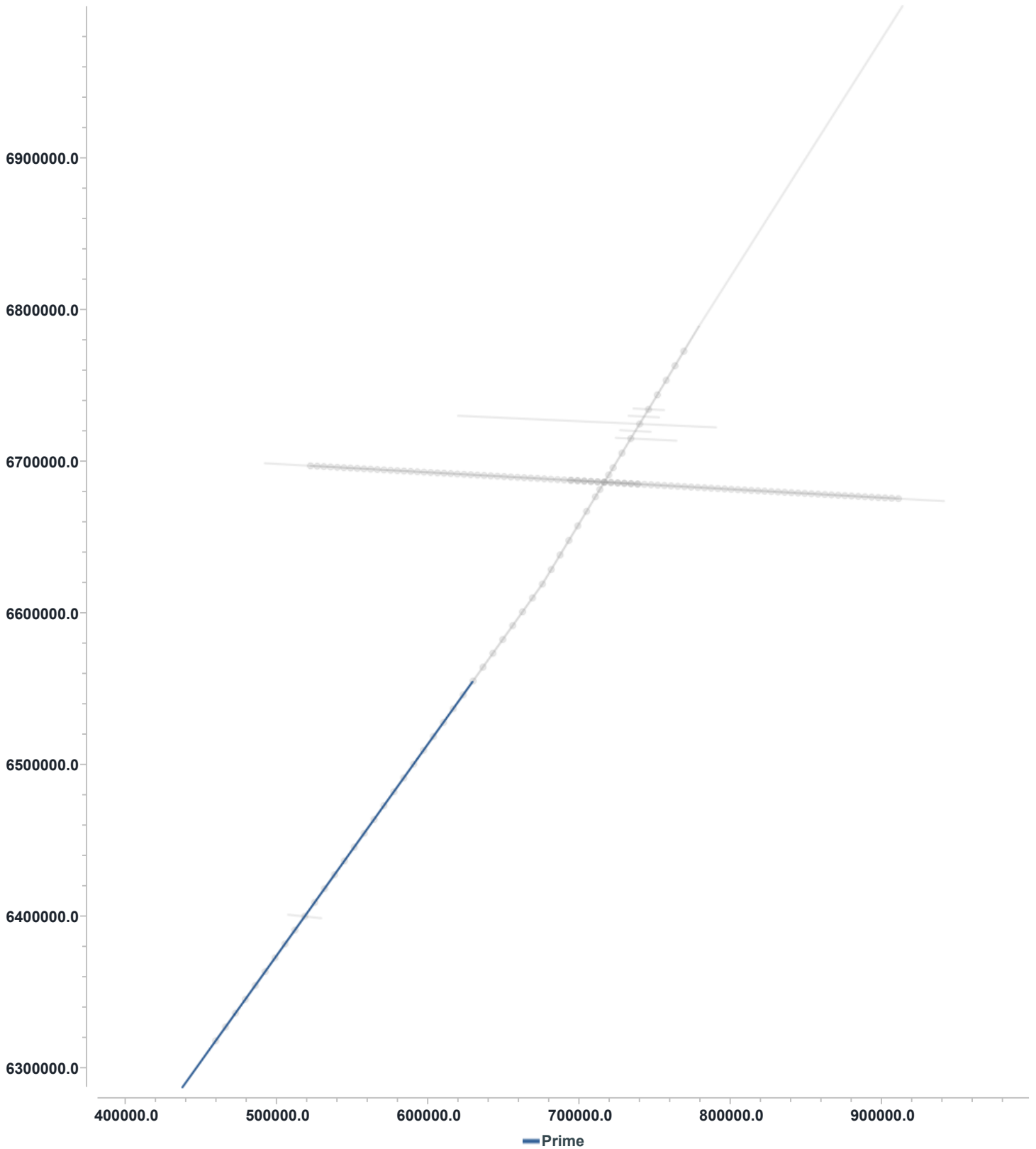
Iceland: Accpt
8/2/2024 - 9/1/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 9/1/2024
Source Only



Iceland: Accpt
8/2/2024 - 9/1/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 01 Sep

9/1/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 01 Sep

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
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 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth

Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	2	0	5	5.000	
Abandon Ship Drill	AS	0	1	0	2	2.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Fire Drill	Fi	0	1	0	2	2.000	
MOB Drill	MOB	0	0	0	1	1.000	
Meetings	Mtgs	1	8	1	34	30.000	
Daily Ops Meeting	DOps	1	8	1	29	29.000	
Start-up Meeting	StUp	0	0	0	1	1.000	
Toolbox Meetings	Tbox	0	0	0	3		
Vessel HSE meeting	VHse	0	0	0	1		
Training	Trng	0	0	0	4	4.000	
Fire Team Training	FTT	0	0	0	2	2.000	
Other Training	OT	0	0	0	1	1.000	
Vessel Induction Tours	VIT	0	0	0	1	1.000	
Reports	Re	0	1	0	1		
Contractor	Con	0	1	0	1		
Task, Hazard, Control	THC	0	1	0	1		

9/2/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Mon 02 Sep

The day started with the vessel waiting on weather. Shortly after midnight the weather was assessed and the teams agreed it was good enough to deploy the tail buoy. Streamer deployment started around 1:40am. Streamer deployment was going smooth up to bird 39, at that point bird 53 displayed a problem with the motor and was having problems keeping depth. The decision was made to go back and change out the bird. Deployment started again at 6:57. There were issues during the deployment with getting the birds to go deep. The streamer was essentially "stuck" on surface. This appears to be a condition of the sea state. The large swell was not allowing the birds to bite and was pulling the streamer to the surface. Once the streamer is at acquisition depth, 15 m, the streamer is slightly heavy as indicated by the majority of the birds in a positive wing angle up. After the streamer was deployed, and down at depth the source went out. Everything was tested and line started early as the vessel was more or less on line heading.

Daily Comment Summaries - Plan for Tomorrow

Mon 02 Sep

Continue on line PFew.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)



Start	End	Category	Code	Duration (hrs)
00:00	01:40	Weather	SB_WX	1.667
Standing by for weather				
01:40	03:55	Streamer Deployment	SB_PO_STD	2.250
Streamer Deployment				
03:55	06:57	Streamers	DT_ST	3.033
Downtime due to streamers, Digibird 53 had a bad motor and was not maintaining depth.				
06:57	21:19	Streamer Deployment	SB_PO_STD	14.367
Streamer, Guns, Maggie and PAM Deployment				
21:19	24:00	Prime	AC_PP	2.683
Seq: 8 MGL2408008MPFew1				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

2-Sep	Hours	% Percent
Acquisition	2.683	11.181
Prime	2.683	11.181
Chargeable Standby	18.283	76.181
Planned Operations	16.617	69.236
Streamer Deployment	16.617	69.236

2-Sep	Hours	% Percent
Weather	1.667	6.944
DownTime	3.033	12.639
Streamers	3.033	12.639
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	27.483	3.579
Source	8.233	1.072
Autofire	2.650	0.345
Deployment	5.583	0.727
Streamers	18.250	2.376
Vessel	1.000	0.130
Chargeable Standby	166.017	21.617
Field Operations	2.533	0.330
Planned Operations	65.217	8.492
Source Deployment	17.767	2.313
Source Recovery	8.433	1.098
Streamer Deployment	39.017	5.080
Tests	7.267	0.946
Transit	26.200	3.411
Weather	64.800	8.438
Mobilisation	90.400	11.771
Mob Ashore	58.000	7.552
Transit to Prospect	32.400	4.219
Acquisition	484.100	63.034
Prime	171.633	22.348
Receiver Deployment/Recovery	312.467	40.686
Free Fall OBS	312.467	40.686
Receiver Deployment	111.933	14.575
Receiver Recovery	194.867	25.373
Transit	5.667	0.738
Total	768.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	0	1092.75
Combined	0	0	0	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	21.20	21.20	21.20	349.85
Combined	21.20	21.20	21.20	349.85

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

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
8	MCS_PFeFw	93.2	401	825	Prime	21.20	4.343	Midnight	Part
Total						21.20			

Production Totals (points)

OBS_Deployment

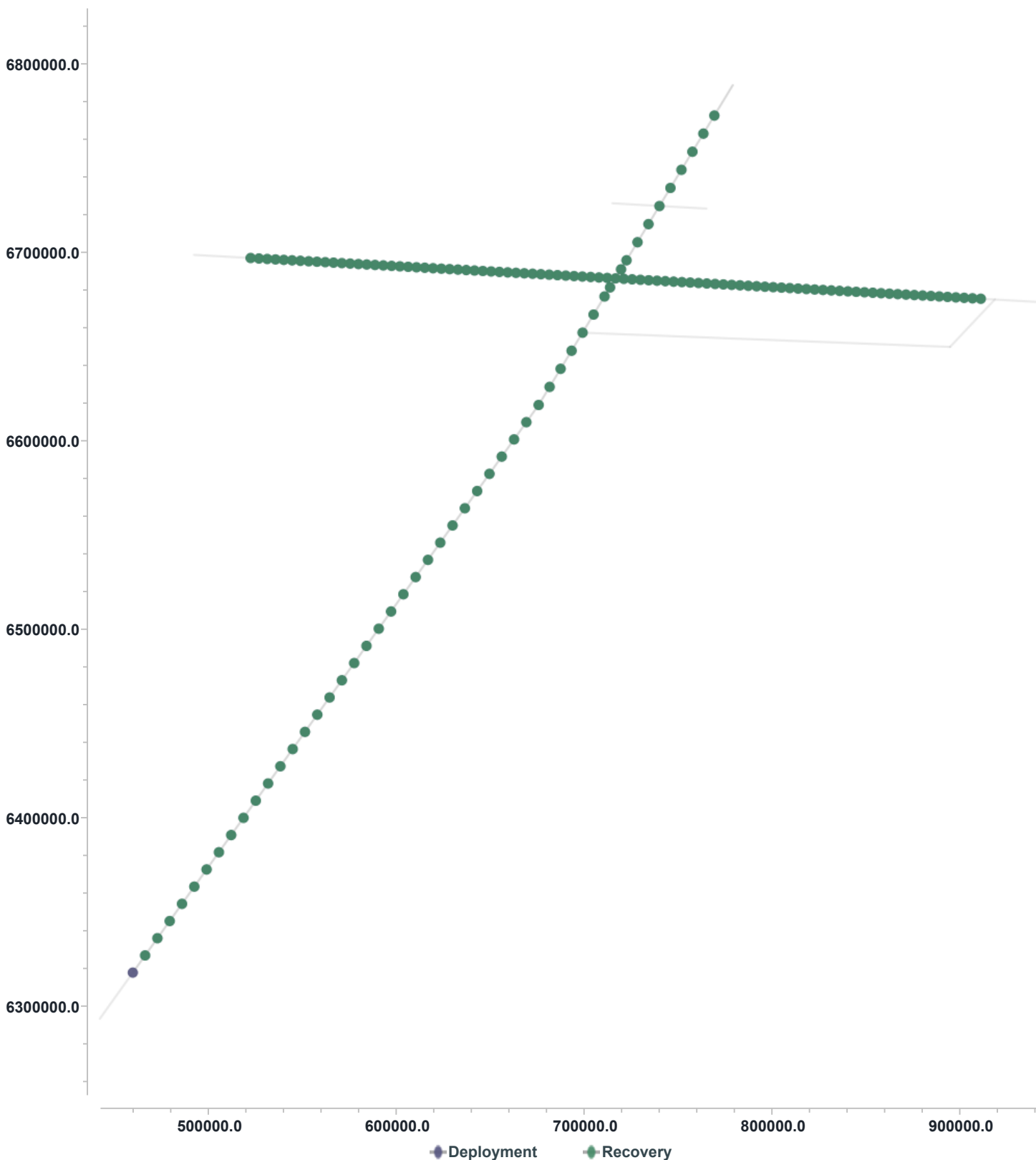
Accepted	Day	Week	Month	Project
Deployment	0	0	0	140
Recovery	0	0	0	139

Production Listing (points)

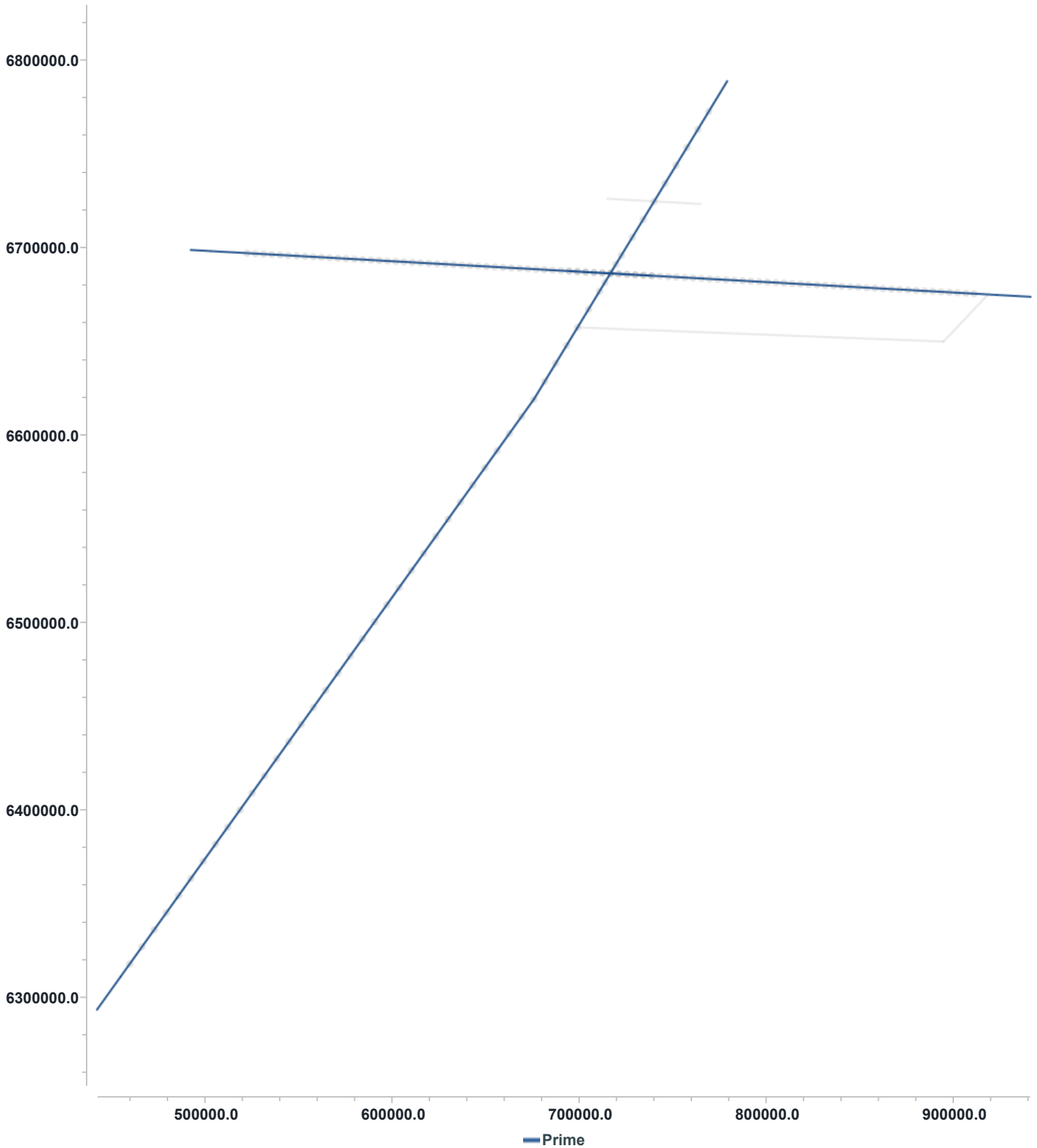
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

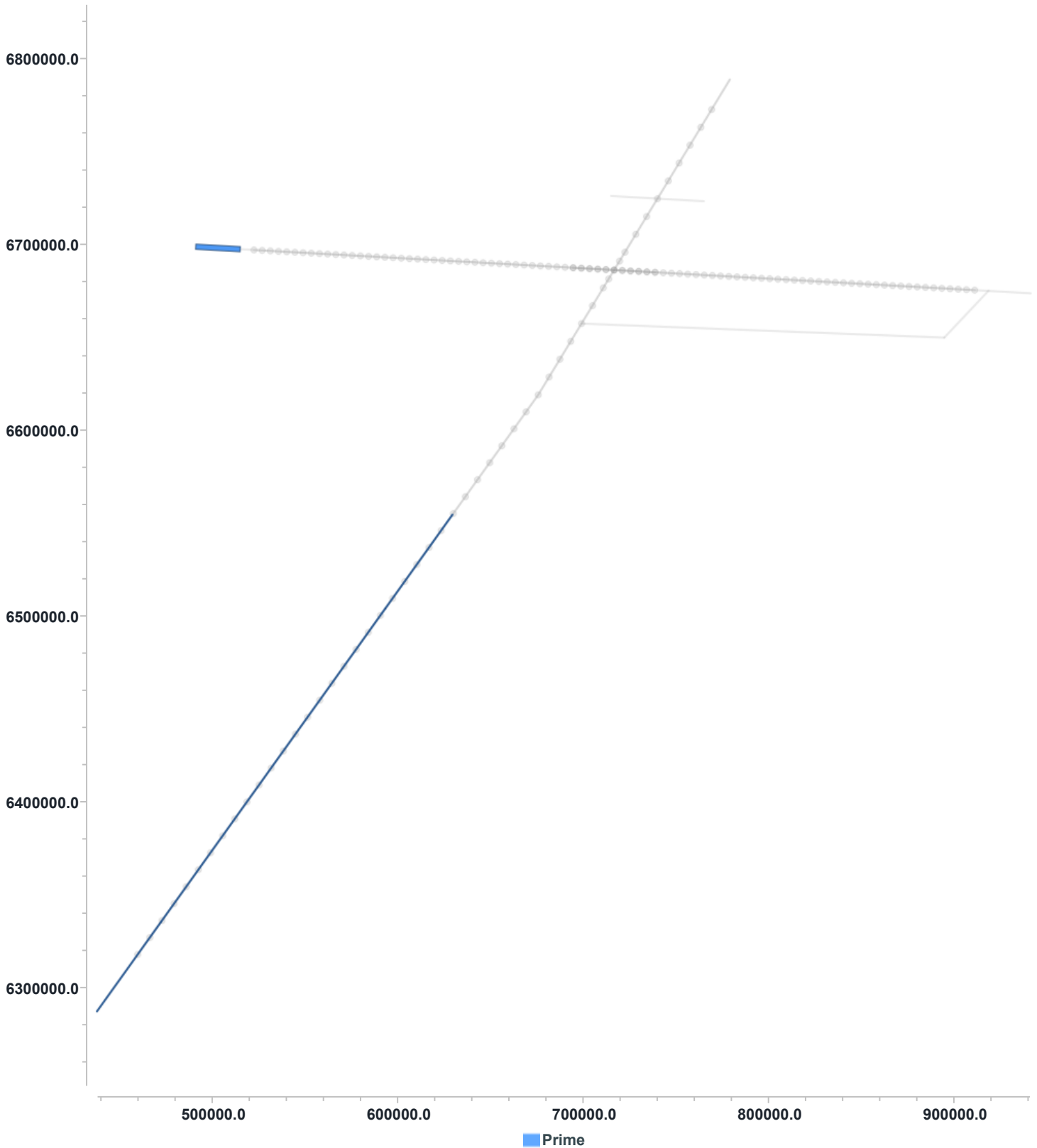
Iceland: Acqpt
8/2/2024 - 9/2/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 9/2/2024
Source Only



Iceland: Accpt
8/2/2024 - 9/2/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 02 Sep

9/2/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 02 Sep

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth















Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	0	5	5.000	
Abandon Ship Drill	AS	0	0	0	2	2.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	0	2	2.000	
 MOB Drill	MOB	0	0	0	1	1.000	
 Meetings	Mtgs	1	1	2	35	31.000	
 Daily Ops Meeting	DOps	1	1	2	30	30.000	
 Start-up Meeting	StUp	0	0	0	1	1.000	
 Toolbox Meetings	Tbox	0	0	0	3		
 Vessel HSE meeting	VHse	0	0	0	1		
 Training	Trng	0	0	0	4	4.000	
 Fire Team Training	FTT	0	0	0	2	2.000	
 Other Training	OT	0	0	0	1	1.000	
 Vessel Induction Tours	VIT	0	0	0	1	1.000	
 Reports	Re	0	0	0	1		
 Contractor	Con	0	0	0	1		
 Task, Hazard, Control	THC	0	0	0	1		

9/3/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Tue 03 Sep

The day started with the vessel on line PFew.
 Array 3 gun 7 has been giving timing and no fire errors.
 At 19:51 arrays 3 and 4 were disabled due to a broken tow rope on array 4.
 During the source repair, seal recording had a glitch, shot points 33129-33138 only recorded every other trace.
 Recording was stopped and started and the error went away.
 At 20:14 arrays 3 and 4 were enabled after the rope was fixed.
 24 XBT's were done today.
 At end of day, the vessel was still on line PFew.

Daily Comment Summaries - Plan for Tomorrow

Tue 03 Sep

Continue on line PFew.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Prime	AC_PP	24.000
Seq: 0 MGL2408008MPFfew1				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

3-Sep	Hours	% Percent
Acquisition	24.000	100.000
Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	27.483	3.470
Source	8.233	1.040
Autofire	2.650	0.335
Deployment	5.583	0.705
Streamers	18.250	2.304
Vessel	1.000	0.126
Chargeable Standby	166.017	20.962
Field Operations	2.533	0.320
Planned Operations	65.217	8.234
Source Deployment	17.767	2.243
Source Recovery	8.433	1.065
Streamer Deployment	39.017	4.926
Tests	7.267	0.918

Category	Hours	% Percent
Transit	26.200	3.308
Weather	64.800	8.182
Mobilisation	90.400	11.414
Mob Ashore	58.000	7.323
Transit to Prospect	32.400	4.091
Acquisition	508.100	64.154
Prime	195.633	24.701
Receiver Deployment/Recovery	312.467	39.453
Free Fall OBS	312.467	39.453
Receiver Deployment	111.933	14.133
Receiver Recovery	194.867	24.604
Transit	5.667	0.715
Total	792.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	0	1092.75
Combined	0	0	0	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	198.05	219.25	219.25	547.90
Combined	198.05	219.25	219.25	547.90

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

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
8	MCS_PFeFw	93.2	826	4786	Prime	198.05	4.343	Midnight	Part
Total						198.05			

Production Totals (points)

OBS_Deployment

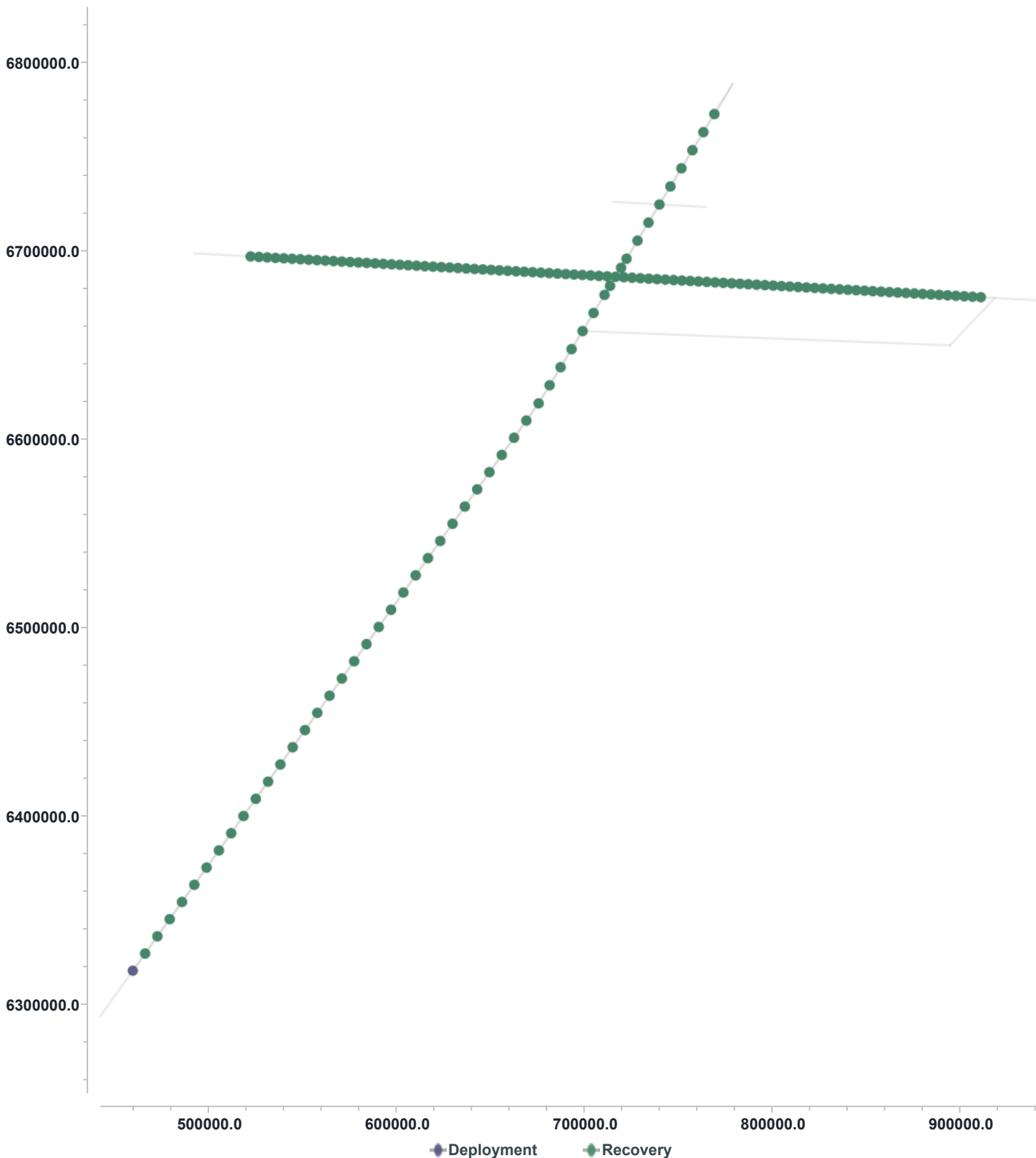
Accepted	Day	Week	Month	Project
Deployment	0	0	0	140
Recovery	0	0	0	139

Production Listing (points)

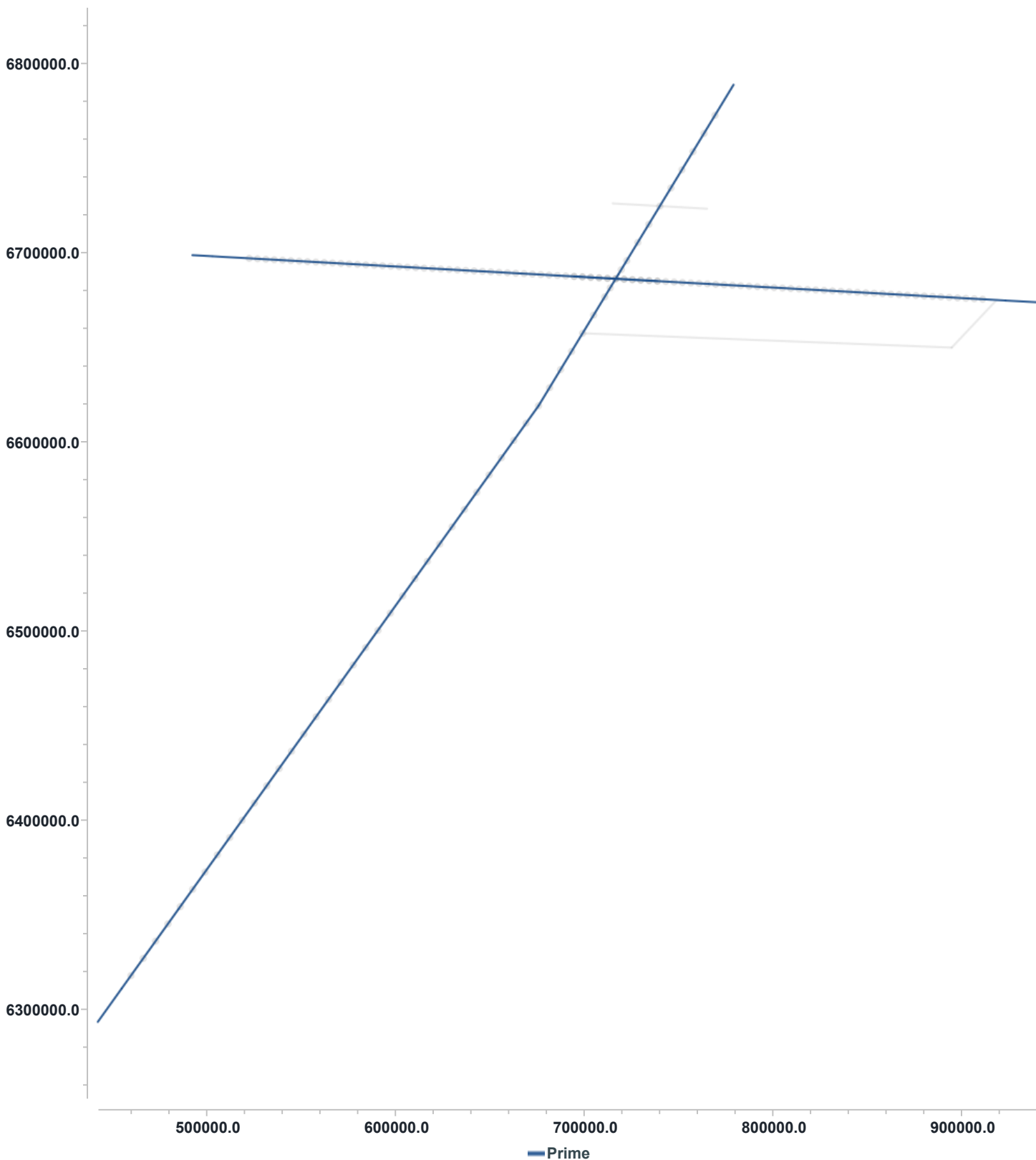
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

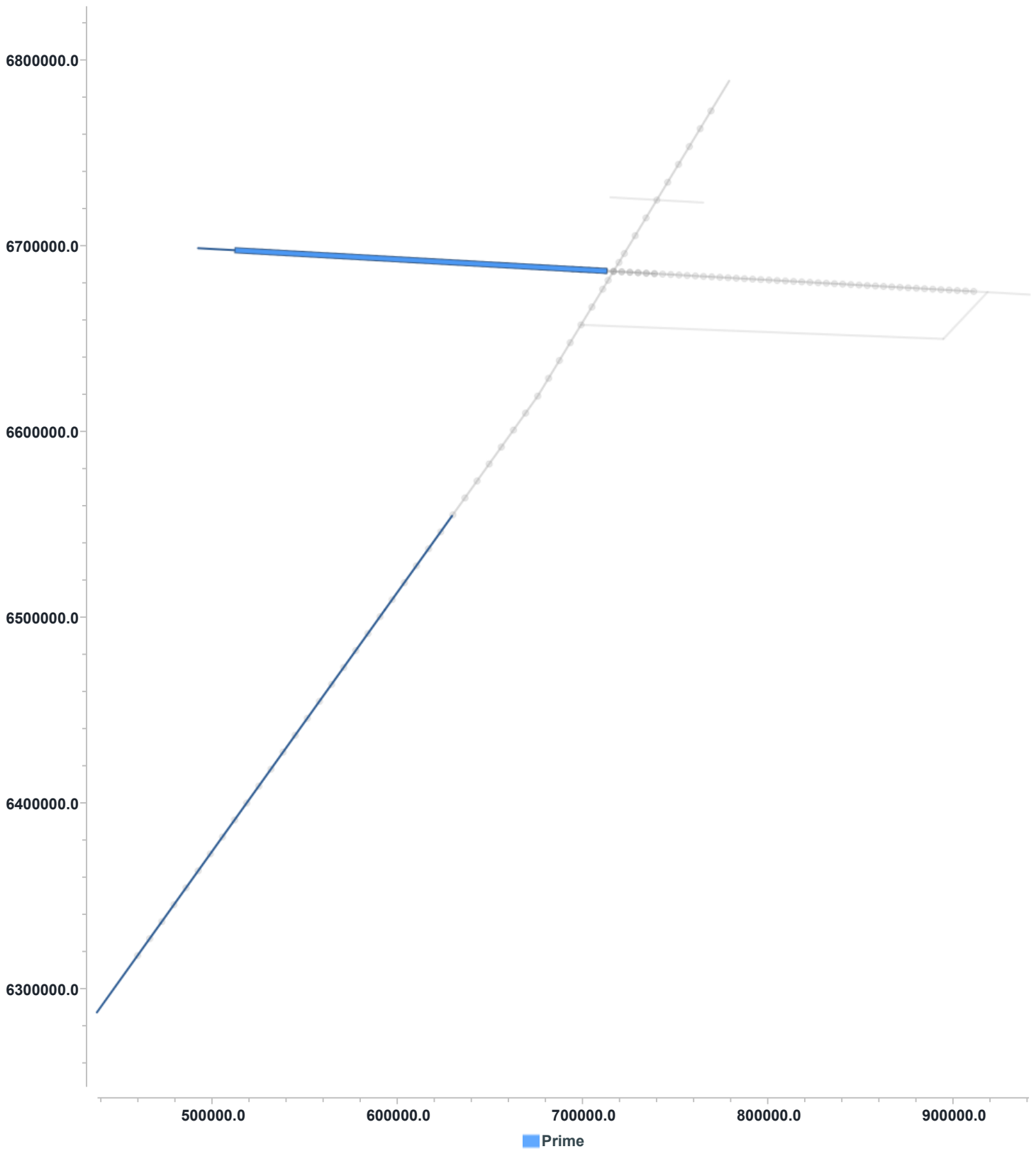
Iceland: Acqpt
8/2/2024 - 9/3/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 9/3/2024
Source Only



Iceland: Accpt
8/2/2024 - 9/3/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Tue 03 Sep

9/3/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 03 Sep

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
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 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:05	13:05	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

Daily Total Category	Code	Count
Task, Hazard, Control	Re_Con_THC	4
Fan Room on B deck swinging in the weather with no one around		
Missing cleaning supplies to clean the rooms		
Not a proper sea going medicine cabinet in cabin. No latch, during rough seas it swings open.		

Daily Total Category	Code	Count
Ensure that adequate food is left for midnight		

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	0	5	5.000	
Abandon Ship Drill	AS	0	0	0	2	2.000	
Fire Drill	Fi	0	0	0	2	2.000	
MOB Drill	MOB	0	0	0	1	1.000	
Meetings	Mtgs	1	2	3	36	32.000	
Daily Ops Meeting	DOps	1	2	3	31	31.000	
Start-up Meeting	StUp	0	0	0	1	1.000	
Toolbox Meetings	Tbox	0	0	0	3		
Vessel HSE meeting	VHse	0	0	0	1		
Training	Trng	0	0	0	4	4.000	
Fire Team Training	FTT	0	0	0	2	2.000	
Other Training	OT	0	0	0	1	1.000	
Vessel Induction Tours	VIT	0	0	0	1	1.000	
Reports	Re	4	4	4	5		
Contractor	Con	4	4	4	5		
Task, Hazard, Control	THC	4	4	4	5		

9/4/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Wed 04 Sep

The day started with the vessel on line PFew.
 It was a good day of acquisition.
 All teams have the new plan and we are eagerly looking forward to getting this priority line done.
 The weather as forecasted, has been picking up towards the end of day.
 It is expected to peak at the vessels location around 4am. The vessel will be on the transit line.

The XBT seismic oceanographic line continues. 22 XBT's were launched today.

Just before midnight the magnetometer was recovered due to marginal weather.

The day ended with the vessel approaching end of line for PFew

Daily Comment Summaries - Plan for Tomorrow

Wed 04 Sep

Finish line PFew, PT1 and start PD7.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	24:00	Prime	AC_PP	24.000
Seq: 0 MGL2408008MPFew1				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

4-Sep	Hours	% Percent
Acquisition	24.000	100.000
Prime	24.000	100.000
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	27.483	3.368
Source	8.233	1.009
Autofire	2.650	0.325
Deployment	5.583	0.684
Streamers	18.250	2.237
Vessel	1.000	0.123
Chargeable Standby	166.017	20.345
Field Operations	2.533	0.310
Planned Operations	65.217	7.992
Source Deployment	17.767	2.177
Source Recovery	8.433	1.033

Category	Hours	% Percent
Streamer Deployment	39.017	4.781
Tests	7.267	0.891
Transit	26.200	3.211
Weather	64.800	7.941
Mobilisation	90.400	11.078
Mob Ashore	58.000	7.108
Transit to Prospect	32.400	3.971
Acquisition	532.100	65.208
Prime	219.633	26.916
Receiver Deployment/Recovery	312.467	38.292
Free Fall OBS	312.467	38.292
Receiver Deployment	111.933	13.717
Receiver Recovery	194.867	23.881
Transit	5.667	0.694
Total	816.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	0	1092.75
Combined	0	0	0	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	188.45	407.70	407.70	736.35
Combined	188.45	407.70	407.70	736.35

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

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
8	MCS_PFeFw	93.2	4787	8555	Prime	188.45	4.343	Midnight	Part
Total						188.45			

Production Totals (points)

OBS_Deployment

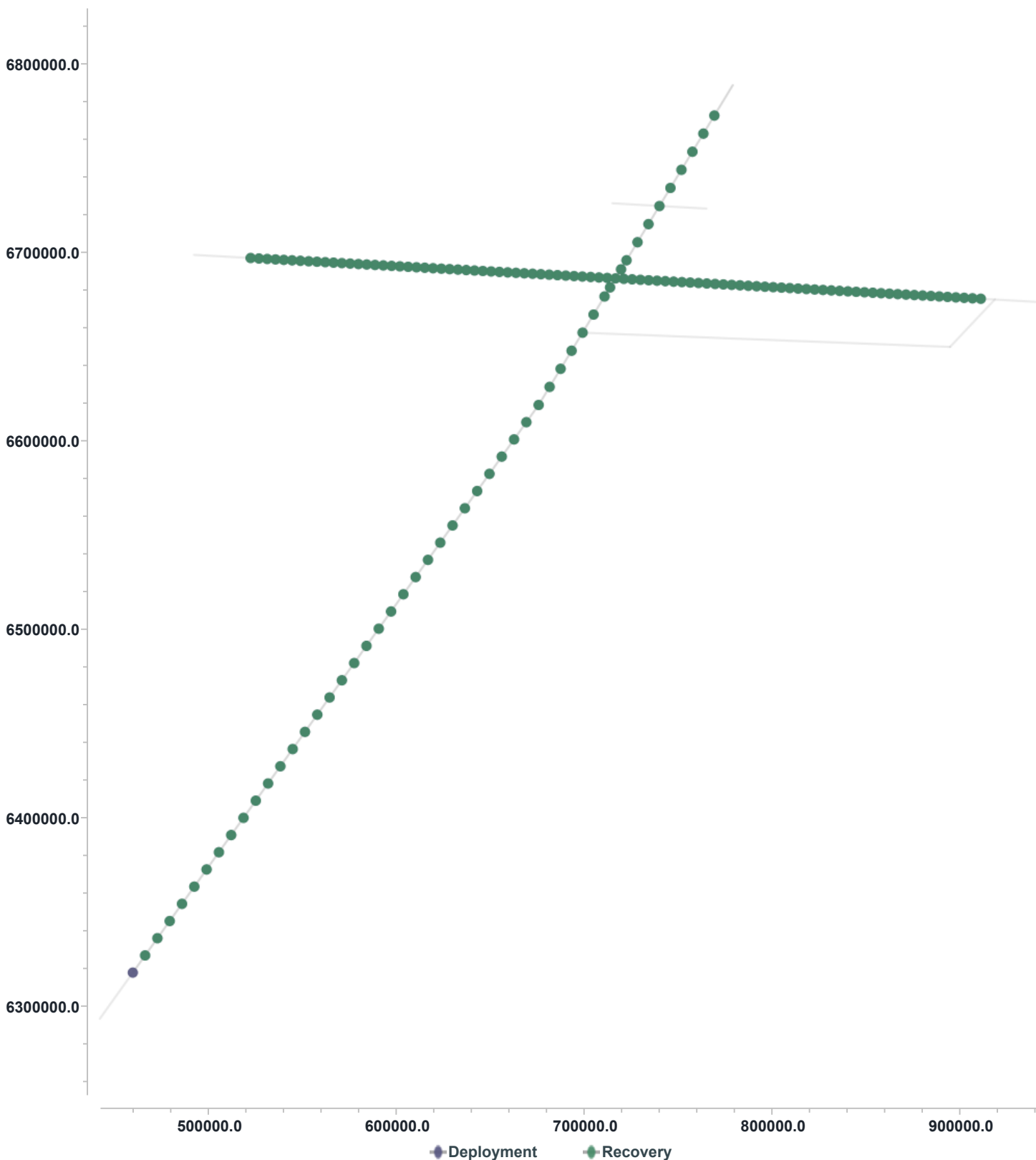
Accepted	Day	Week	Month	Project
Deployment	0	0	0	140
Recovery	0	0	0	139

Production Listing (points)

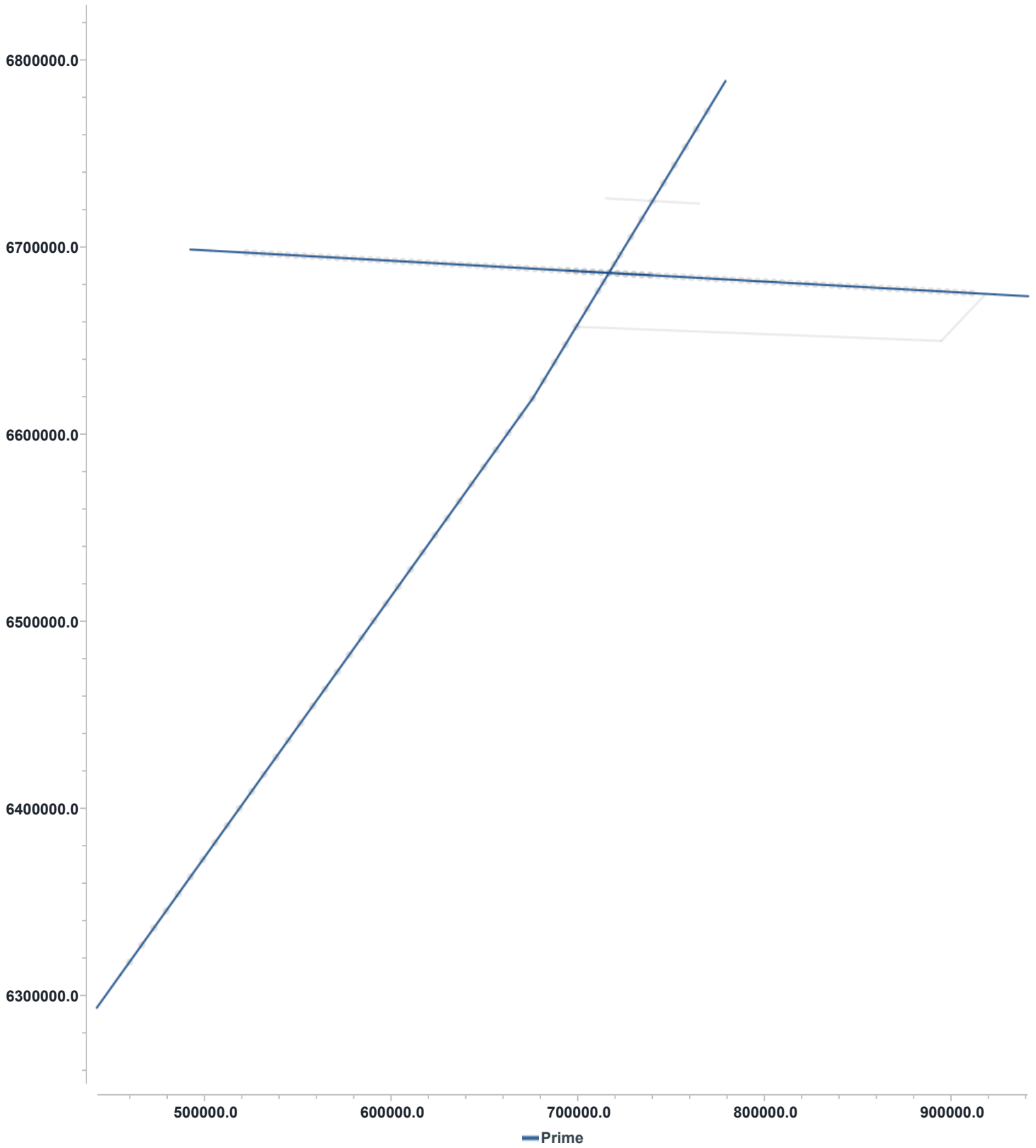
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

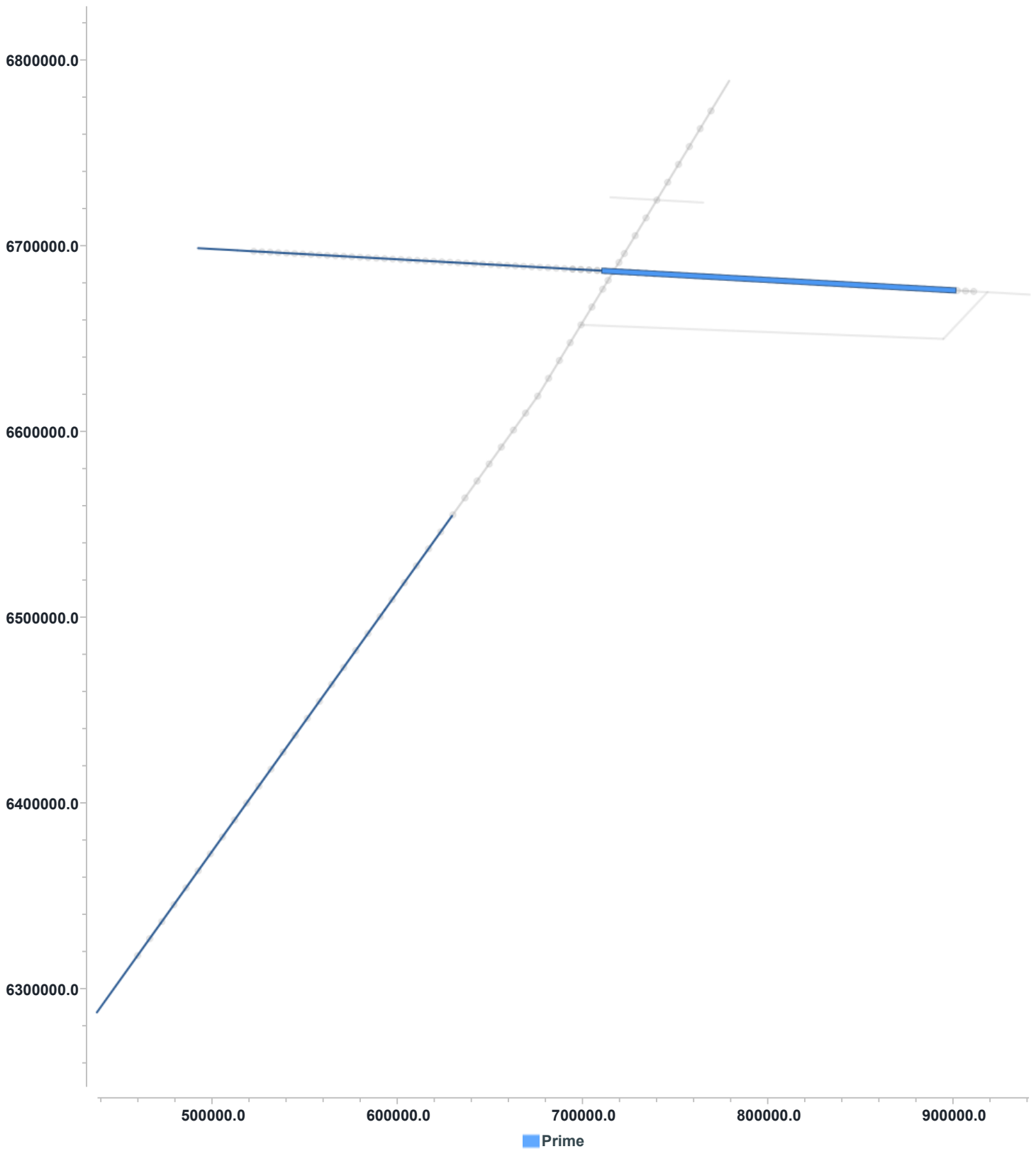
Iceland: Acqpt
8/2/2024 - 9/4/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 9/4/2024
Source Only



Iceland: Accpt
8/2/2024 - 9/4/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Wed 04 Sep

9/4/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 04 Sep

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth

Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

Daily Total Category	Code	Count
Task, Hazard, Control	Re_Con_THC	3
The grab handle in cabin 207 shower is loose.		
Suggestion: Put mirror in the gym		
Cabin 201/202 bathroom: Several issues bad cabinet, mold, vent fan not working		

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	0	5	5.000	
Abandon Ship Drill	AS	0	0	0	2	2.000	
Fire Drill	Fi	0	0	0	2	2.000	
MOB Drill	MOB	0	0	0	1	1.000	
Meetings	Mtgs	1	3	4	37	33.000	
Daily Ops Meeting	DOps	1	3	4	32	32.000	
Start-up Meeting	StUp	0	0	0	1	1.000	
Toolbox Meetings	Tbox	0	0	0	3		
Vessel HSE meeting	VHse	0	0	0	1		
Training	Trng	0	0	0	4	4.000	
Fire Team Training	FTT	0	0	0	2	2.000	
Other Training	OT	0	0	0	1	1.000	
Vessel Induction Tours	VIT	0	0	0	1	1.000	
Reports	Re	3	7	7	8		
Contractor	Con	3	7	7	8		
Task, Hazard, Control	THC	3	7	7	8		

9/5/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Thu 05 Sep

The day started with the vessel just finishing up line PFew.
 The vessel turned on to the transit line, due to high winds & high seas vessel speed and streamer control were challenging.
 The streamer was put to 20 meters for the transit line.
 Once again the turn on to line PD7 was a challenge. When the streamer was straight it was put to 15 meters.
 There was a portion around bird 39 that struggled to get to 15 meters, it took over an hour.

The magnetometer was left onboard all day due to the marginal sea conditions.

At end of day the vessel was on line PD7 acquiring data heading west.

Daily Comment Summaries - Plan for Tomorrow

Thu 05 Sep

Complete lines PD7 and line PA up to the turn off point for PD4.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	02:21	Prime	AC_PP	2.350
Seq: 8 MGL2408008MPFew1				
02:21	03:10	Prime L/C	AC_PLC	0.817
Seq: 8 Line: MCS_PFeFw Nominal Prime line change.				
03:10	05:45	Prime	AC_PP	2.583
Seq: 8 MGL2408009MPT12				
05:45	07:15	Prime L/C	AC_PLC	1.500
Seq: 9 Line: MCS_PT1 Nominal Prime line change.				
07:15	24:00	Prime	AC_PP	16.750
Seq: 9 MGL2408010MPD71				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

5-Sep	Hours	% Percent
Acquisition	24.000	100.000
Prime	21.683	90.347
Prime L/C	2.317	9.653
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	27.483	3.272
Source	8.233	0.980
Autofire	2.650	0.315
Deployment	5.583	0.665
Streamers	18.250	2.173
Vessel	1.000	0.119
Chargeable Standby	166.017	19.764
Field Operations	2.533	0.302
Planned Operations	65.217	7.764
Source Deployment	17.767	2.115
Source Recovery	8.433	1.004
Streamer Deployment	39.017	4.645
Tests	7.267	0.865
Transit	26.200	3.119
Weather	64.800	7.714
Mobilisation	90.400	10.762
Mob Ashore	58.000	6.905
Transit to Prospect	32.400	3.857
Acquisition	556.100	66.202
Prime	241.317	28.728
Prime L/C	2.317	0.276
Receiver Deployment/Recovery	312.467	37.198
Free Fall OBS	312.467	37.198
Receiver Deployment	111.933	13.325
Receiver Recovery	194.867	23.198
Transit	5.667	0.675
Total	840.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		

Comment
Source Only Shot in Time Mode: 60 seconds per shot

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		

MCS 15000m 50m

Cable Details

No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m

Source Details

No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accept Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	0	1092.75
Combined	0	0	0	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	153.70	561.40	561.40	890.05
Combined	153.70	561.40	561.40	890.05

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

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
8	MCS_PFeFw	93.2	8556	8951	Prime	19.80	4.353	Complete	Complete
9	MCS_PT1	223.4	1017	1391	Prime	18.70	3.909	Complete	Complete
10	MCS_PD7	272.2	681	2985	Prime	115.20	3.804	Midnight	Part
Total						153.70			

Production Totals (points)

OBS_Deployment

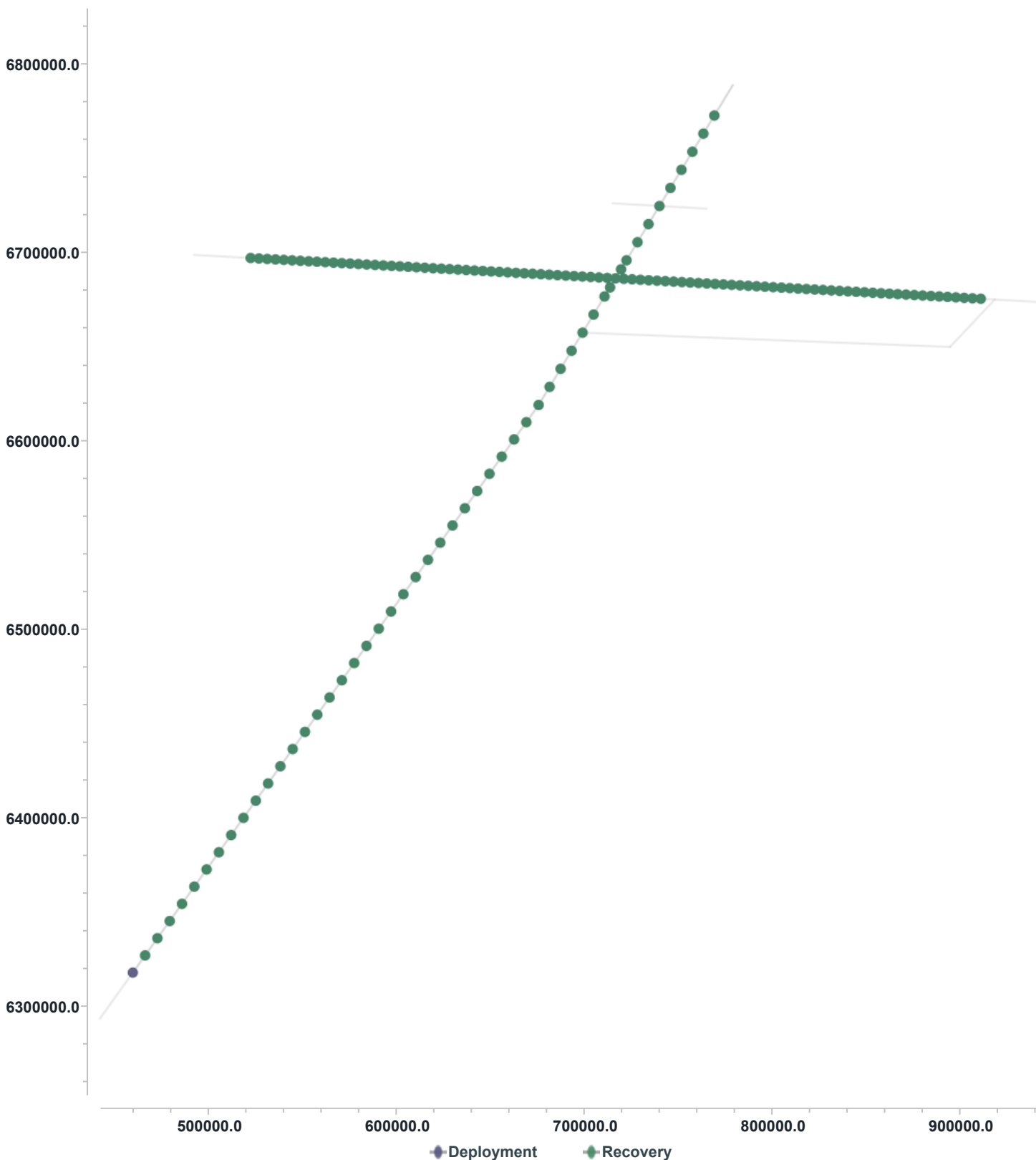
Accepted	Day	Week	Month	Project
Deployment	0	0	0	140
Recovery	0	0	0	139

Production Listing (points)

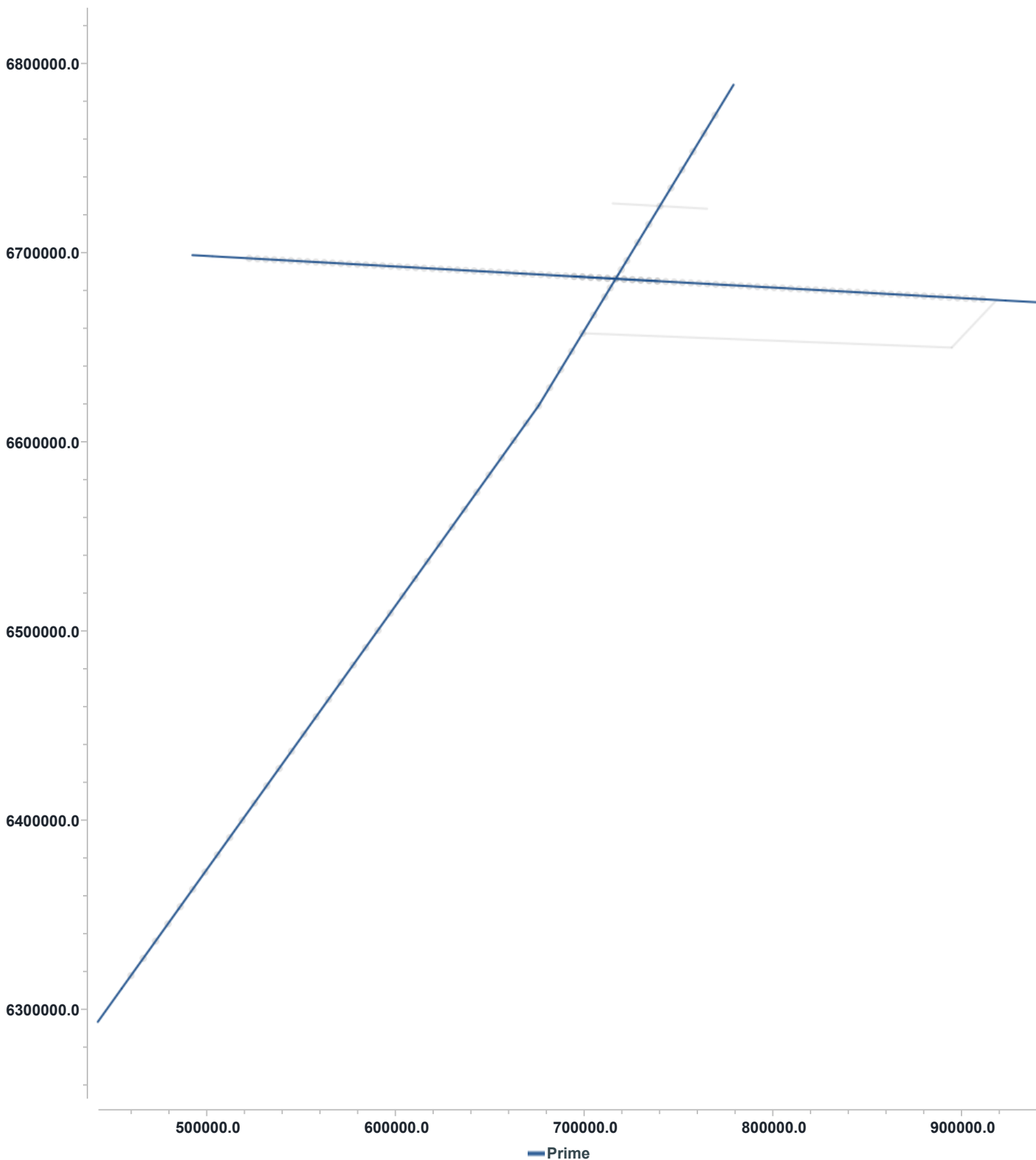
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

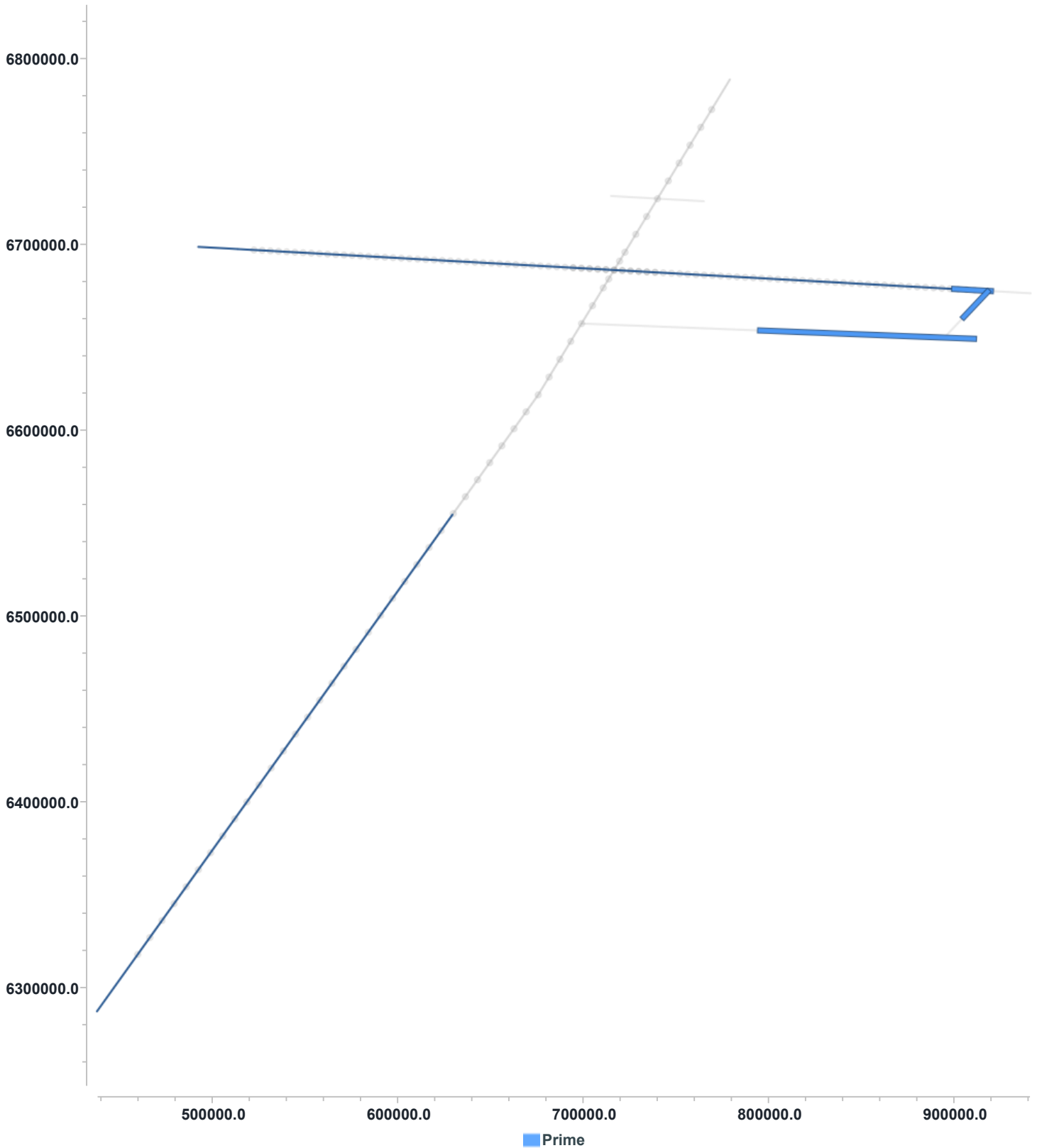
Iceland: Acppt
8/2/2024 - 9/5/2024
OBS_Deployment



Iceland: Accpt
8/2/2024 - 9/5/2024
Source Only



Iceland: Acppt
8/2/2024 - 9/5/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Thu 05 Sep

9/5/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 05 Sep

Technical Staff On-board the Langseth

- Cody Bahlau L-DEO OMO Chief Science Officer
- Josh Kasinger L-DEO OMO Chief Source Mechanic
- Brian Agee L-DEO OMO Source Mechanic
- Gilles Guerin - L-DEO OMO Observer
- Riley Lopez - L-DEO OMO Observer
- Koray Ergun.- L-DEO OMO Navigator
- Malcolm Moody - Contract Source Mechanic
- Jason Rodham - Contract Source Mechanic
- Leon Da Silva Souza - Contract Source Mechanic
- Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

- Cassandra Frey - RPS Lead PSO
- Laura Galvan - RPS PSO
- Sharon Toro - RPS PSO
- Ana Salomon - RPS PSO
- Karen Villegas - RPS PSO
- Lili Leticia - RPS PSO
- Chase McShane - RPS PSO
- Fernando Diaz - RPS PSO

Science Party On-board the Langseth

- Stephen Jones - PI
- Tim Henstock - Co-PI
- Hazel Knight - Scientist
- Aisling Dunn - Scientist
- Philippa Stay - Scientist
- Margaret Morris - Scientist
- Callum Pearman - Scientist
- Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
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HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	0	5	5.000	
Abandon Ship Drill	AS	0	0	0	2	2.000	
Fire Drill	Fi	0	0	0	2	2.000	
MOB Drill	MOB	0	0	0	1	1.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Meetings	Mtgs	0	3	4	37	33.000	
Daily Ops Meeting	DOps	0	3	4	32	32.000	
Start-up Meeting	StUp	0	0	0	1	1.000	
Toolbox Meetings	Tbox	0	0	0	3		
Vessel HSE meeting	VHse	0	0	0	1		
Training	Trng	0	0	0	4	4.000	
Fire Team Training	FTT	0	0	0	2	2.000	
Other Training	OT	0	0	0	1	1.000	
Vessel Induction Tours	VIT	0	0	0	1	1.000	
Reports	Re	0	7	7	8		
Contractor	Con	0	7	7	8		
Task, Hazard, Control	THC	0	7	7	8		

9/6/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Fri 06 Sep

The vessel was on line PD7 at the start of the day.
 The weather was up and the vessel had a following current that made streamer depth an issue.
 The vessel turned on to line PDa, when doing so the middle of the streamer went deep, to ~30m.
 Speed was increases when tensions would allow and the streamer came back up to 15 meters.
 At 18:50 there was an autofire on array 2, the pressure was reduced to try and seal the gun several times.
 Unfortunately in the end the gun could not be sealed, the seas were to bad for a safe recovery. The array was fully aired down and flooded so operations could continue.

The Magnetometer was not deployed today due to the sea state.

At the end of day the vessel just passed the location of OBS PA5 and the teams were preparing for a stbd turn in marginal weather; 3.5 meters 30-35 kts winds.

Daily Comment Summaries - Plan for Tomorrow

Fri 06 Sep

Acquire transit line 2, turn on to crossing line PD4.
 At the end of PD4 recover gear and prepare to transit to Iceland.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	12:56	Prime	AC_PP	12.933
Seq: 10 MGL2408010MPD71				
12:56	13:45	Prime L/C	AC_PLC	0.817
Seq: 10 Line: MCS_PD7 Nominal Prime line change.				
13:45	24:00	Prime	AC_PP	10.250
Seq: 10 MGL2408011MPA2				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

6-Sep	Hours	% Percent
Acquisition	24.000	100.000
Prime	23.183	96.597
Prime L/C	0.817	3.403
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	27.483	3.181
Source	8.233	0.953

Category	Hours	% Percent
Autofire	2.650	0.307
Deployment	5.583	0.646
Streamers	18.250	2.112
Vessel	1.000	0.116
Chargeable Standby	166.017	19.215
Field Operations	2.533	0.293
Planned Operations	65.217	7.548
Source Deployment	17.767	2.056
Source Recovery	8.433	0.976
Streamer Deployment	39.017	4.516
Tests	7.267	0.841
Transit	26.200	3.032
Weather	64.800	7.500
Mobilisation	90.400	10.463
Mob Ashore	58.000	6.713
Transit to Prospect	32.400	3.750
Acquisition	580.100	67.141
Prime	264.500	30.613
Prime L/C	3.133	0.363
Receiver Deployment/Recovery	312.467	36.165
Free Fall OBS	312.467	36.165
Receiver Deployment	111.933	12.955
Receiver Recovery	194.867	22.554
Transit	5.667	0.656
Total	864.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m

MCS 15000m 50m

Source Details

No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	0	1092.75
Combined	0	0	0	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	169.90	731.30	731.30	1059.95
Combined	169.90	731.30	731.30	1059.95

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

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
10	MCS_PD7	272.2	2986	4863	Prime	93.90	3.804	Complete	Complete
11	MCS_P-A_1	35.6	9350	10870	Prime	76.00	3.997	Midnight	Part
Total						169.90			

Production Totals (points)

OBS_Deployment

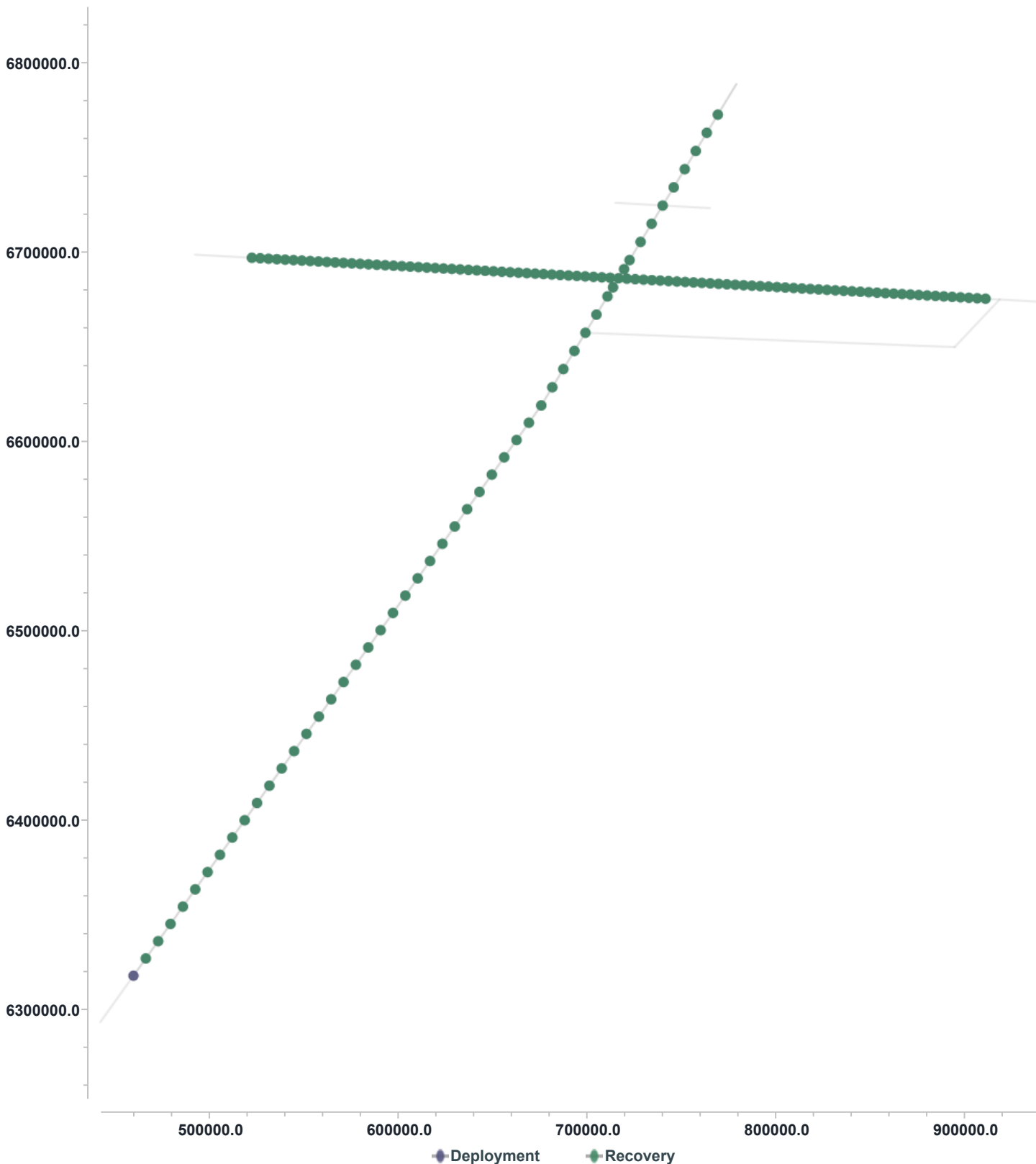
Accepted	Day	Week	Month	Project
Deployment	0	0	0	140
Recovery	0	0	0	139

Production Listing (points)

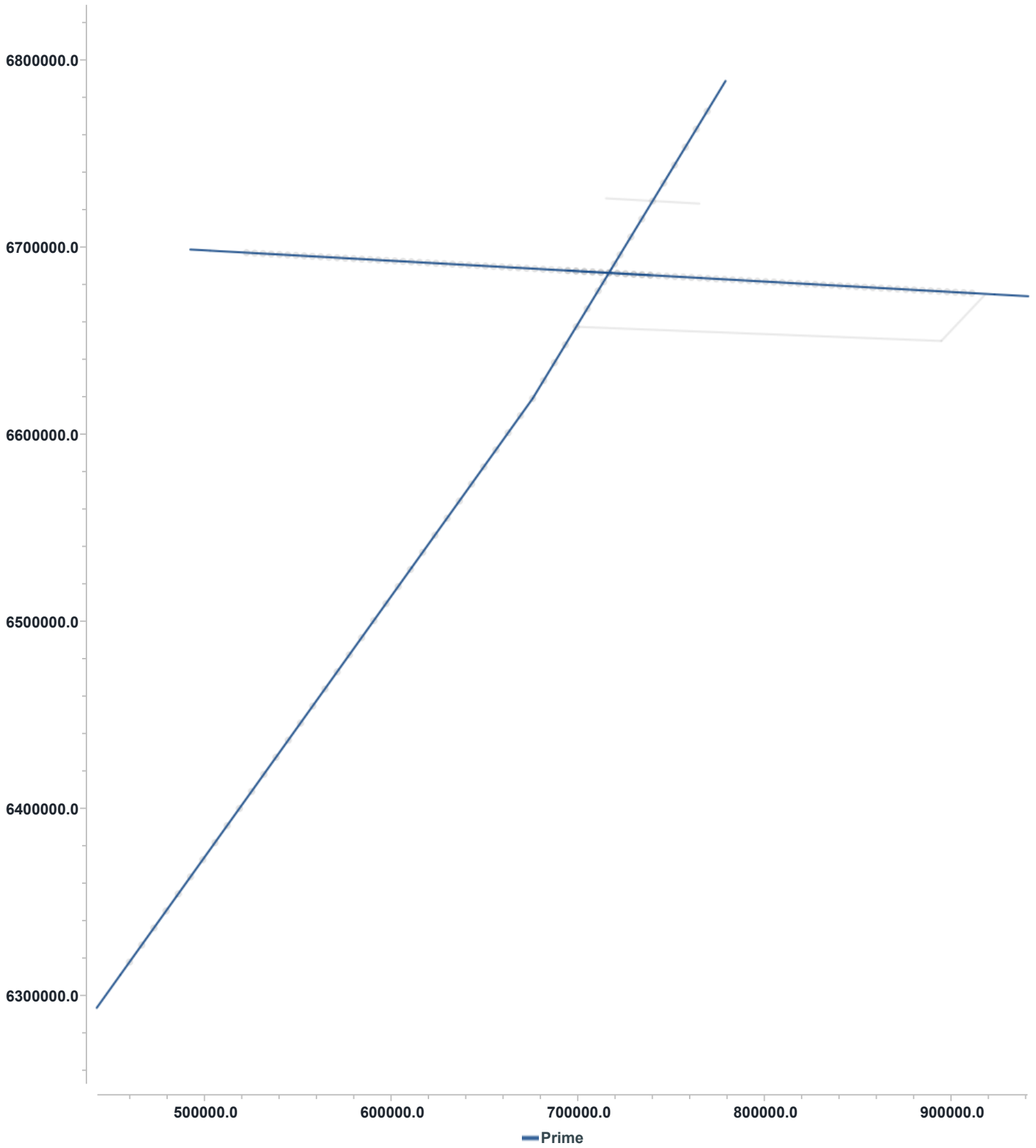
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

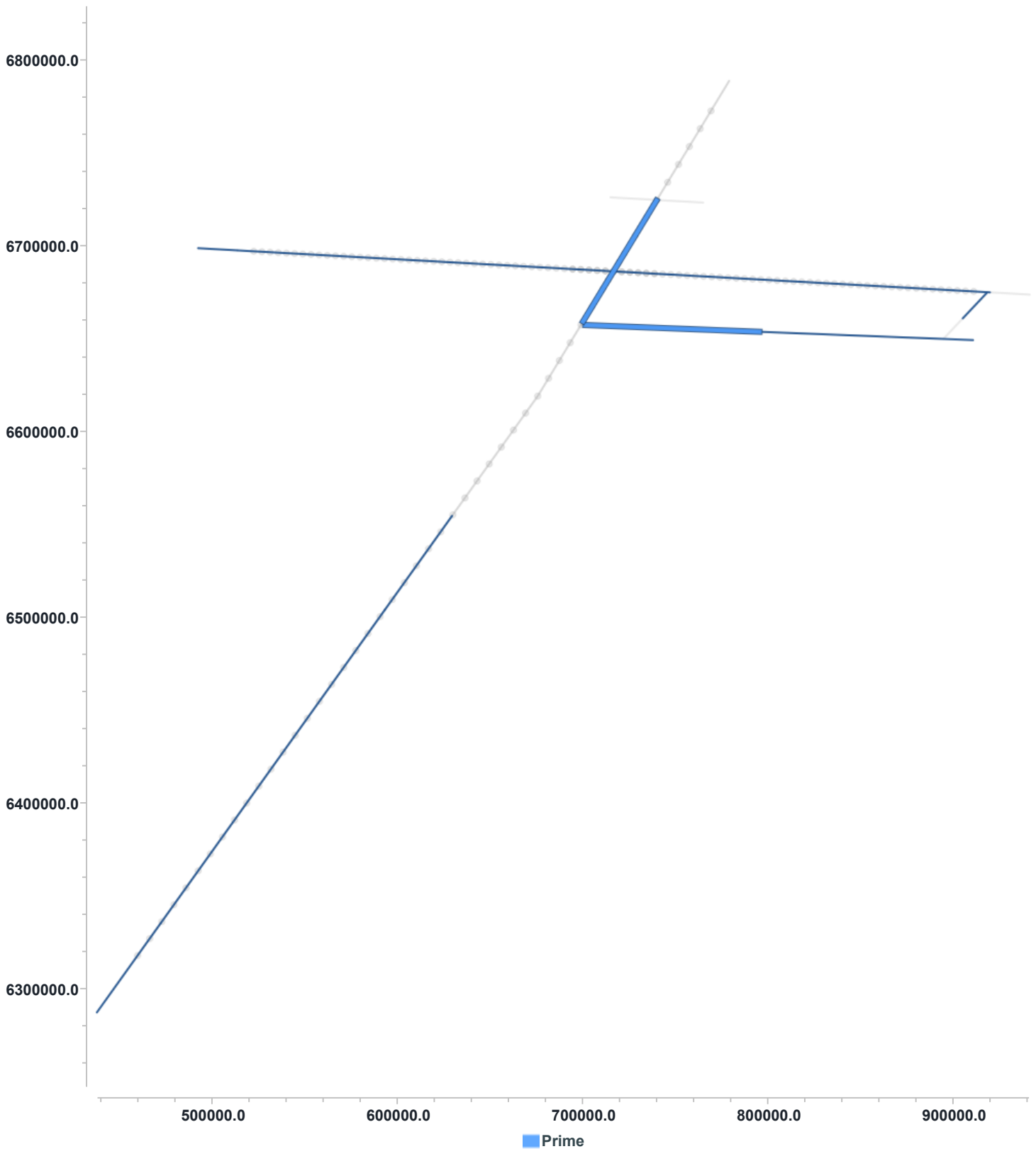
Iceland: Acqpt
8/2/2024 - 9/6/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 9/6/2024
Source Only



Iceland: Accpt
8/2/2024 - 9/6/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Fri 06 Sep

9/6/2024

Page 7

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 06 Sep

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
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 Tomasz Kranz - Contract Source Mechanic

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 Fernando Diaz - RPS PSO

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 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:10	13:10	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	0	5	5.000	
Abandon Ship Drill	AS	0	0	0	2	2.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Fire Drill	Fi	0	0	0	2	2.000	
MOB Drill	MOB	0	0	0	1	1.000	
Meetings	Mtgs	1	5	6	39	35.000	
Daily Ops Meeting	DOPs	1	5	6	34	34.000	
Start-up Meeting	StUp	0	0	0	1	1.000	
Toolbox Meetings	Tbox	0	0	0	3		
Vessel HSE meeting	VHse	0	0	0	1		
Training	Trng	0	0	0	4	4.000	
Fire Team Training	FTT	0	0	0	2	2.000	
Other Training	OT	0	0	0	1	1.000	
Vessel Induction Tours	VIT	0	0	0	1	1.000	
Reports	Re	0	7	7	8		
Contractor	Con	0	7	7	8		
Task, Hazard, Control	THC	0	7	7	8		

9/7/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sat 07 Sep

The vessel was acquiring data on transit line PT2 at the start of the day.
 The weather has come down slightly from the 6th, the winds have dropped to 18-22 kts.
 The turn on to PD4 was done with good vessel speed and streamer control.
 Acquisition on line PD4 started at 07:30 and the last shot of the cruise was at 17:21.

A safety meeting was held in the main lab just prior to gear recovery.
 The seas were 2.5-2.8 meters for source recovery and the wind was picking up the entire time.
 A few hours later and it would have been to rough to pick the source up and would have delayed operations until at least midday on the 8th.

At the end of line PD4 it was decided to recover the gear slightly early due to two storm systems.
 - The front moving in to the western end of line PD4 and Northern end of PA: ~4 meters and ~30 kts winds
 - The front moving down from Iceland. Recent weather reports have shown it to be shifting however, if it moves slightly to the West the vessel will sail directly in to it heading North back to Iceland.

At end of day the source is onboard and 4km of streamer is onboard.

Daily Comment Summaries - Plan for Tomorrow

Sat 07 Sep

Finish streamer recovery and head towards Iceland

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	00:05	Prime	AC_PP	0.083
Seq: 11 MGL2408011MPA2				
00:05	01:19	Prime L/C	AC_PLC	1.233
Seq: 11 Line: MCS_P-A_1 Nominal Prime line change.				
01:19	05:09	Prime	AC_PP	3.833
Seq: 12 MGL2408012MPT21				
05:09	07:30	Prime L/C	AC_PLC	2.350
Seq: 12 Line: PT2 Nominal Prime line change.				
07:30	17:21	Prime L/C	AC_PLC	9.850
Seq: 13 Line: MCS_PD4 MGL2408013MPD41				
17:21	20:09	Source Recovery	SB_PO_SOR	2.800
Recover Source and PAM				

Start	End	Category	Code	Duration (hrs)
20:09	24:00	■ Streamer Recovery	SB_PO_STR	3.850
Recover Streamer				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

7-Sep	Hours	% Percent
Acquisition	17.350	72.292
Prime	3.917	16.319
Prime L/C	13.433	55.972
Chargeable Standby	6.650	27.708
Planned Operations	6.650	27.708
Source Recovery	2.800	11.667
Streamer Recovery	3.850	16.042
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	27.483	3.095
Source	8.233	0.927
Autofire	2.650	0.298
Deployment	5.583	0.629
Streamers	18.250	2.055
Vessel	1.000	0.113
Chargeable Standby	172.667	19.444
Field Operations	2.533	0.285
Planned Operations	71.867	8.093
Source Deployment	17.767	2.001
Source Recovery	11.233	1.265
Streamer Deployment	39.017	4.394
Streamer Recovery	3.850	0.434
Tests	7.267	0.818
Transit	26.200	2.950
Weather	64.800	7.297
Mobilisation	90.400	10.180
Mob Ashore	58.000	6.532
Transit to Prospect	32.400	3.649
Acquisition	597.450	67.280
Prime	268.417	30.227
Prime L/C	16.567	1.866
Receiver Deployment/Recovery	312.467	35.188
Free Fall OBS	312.467	35.188
Receiver Deployment	111.933	12.605
Receiver Recovery	194.867	21.944
Transit	5.667	0.638
Total	888.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

Accepted km	Day	Week	Month	Project
Prime	0	0	0	1092.75
Combined	0	0	0	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	104.65	835.95	835.95	1164.60
Combined	104.65	835.95	835.95	1164.60

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

MCS 15000m 50m, Source Only

Seq	Line	Heading	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
11	MCS_P-A_1	35.6	10871	10970	Prime	5.00	4.233	Complete	Complete
12	PT2	93.3	1066	1631	Prime	28.25	3.979	Complete	Complete
13	MCS_PD4	273.2	720	2148	Prime	71.40	3.947	Complete	Complete
Total						104.65			

Production Totals (points)

OBS_Deployment

Accepted	Day	Week	Month	Project
Deployment	0	0	0	140
Recovery	0	0	0	139

9/7/2024

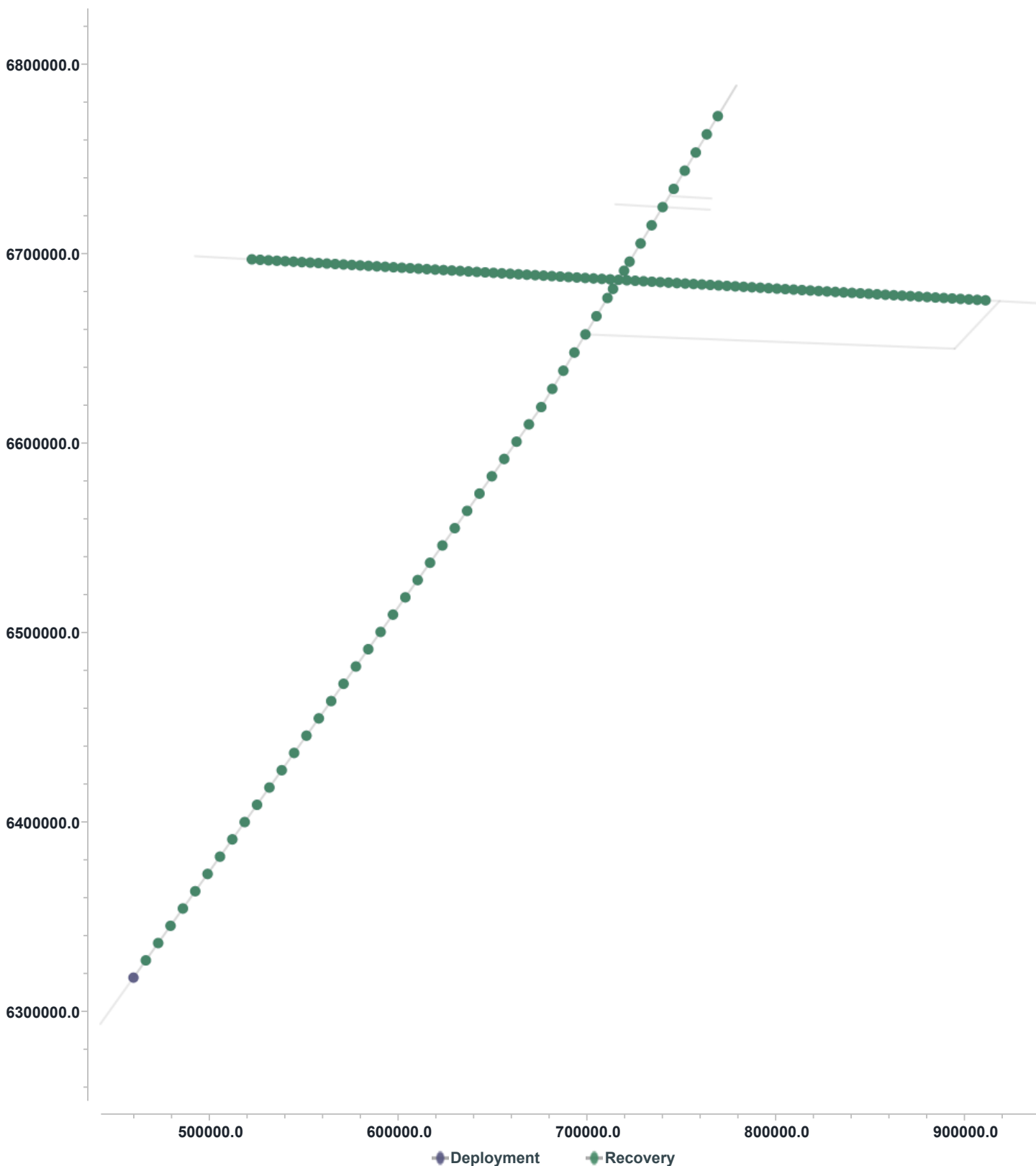
Page 4

Production Listing (points)

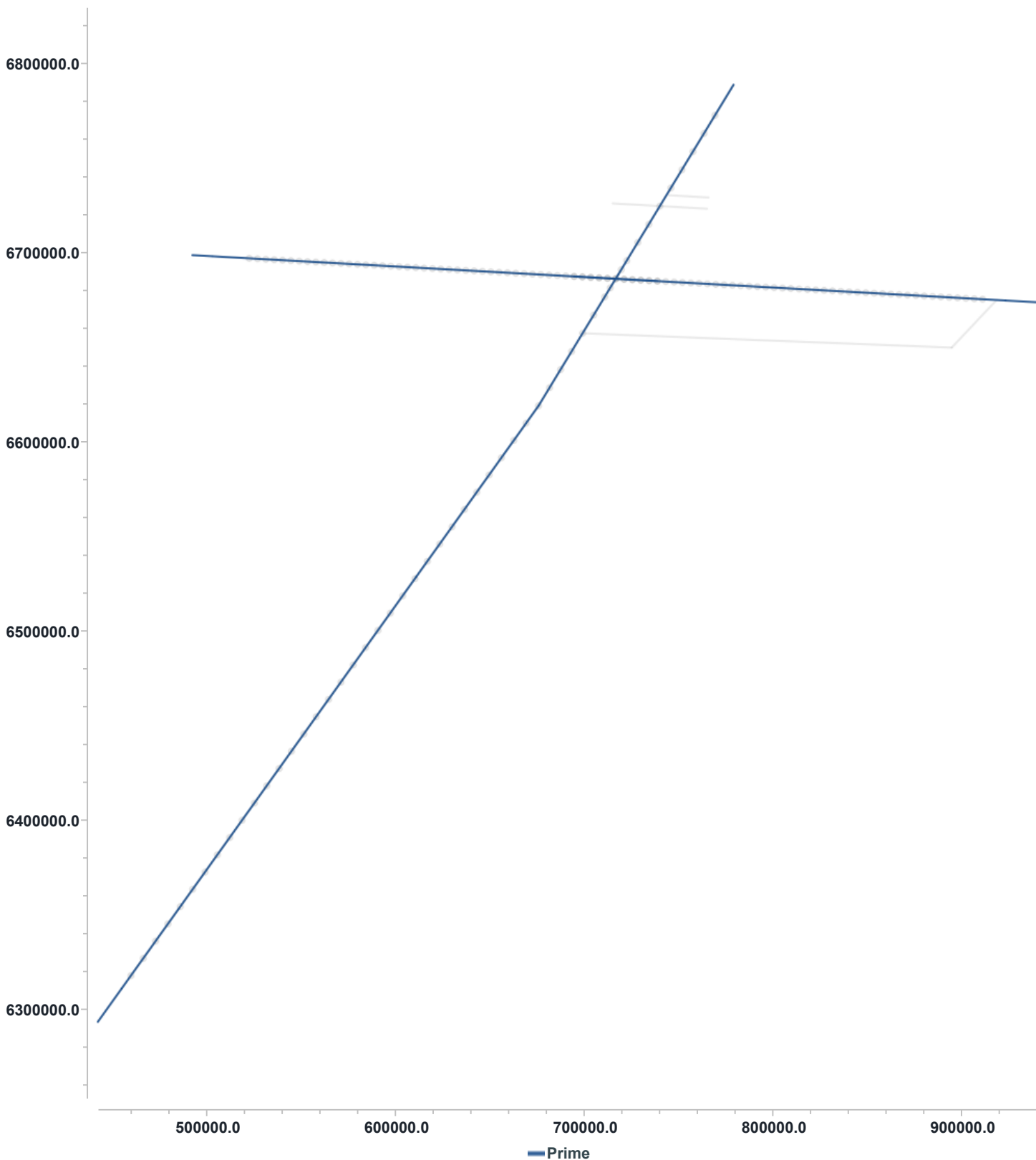
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

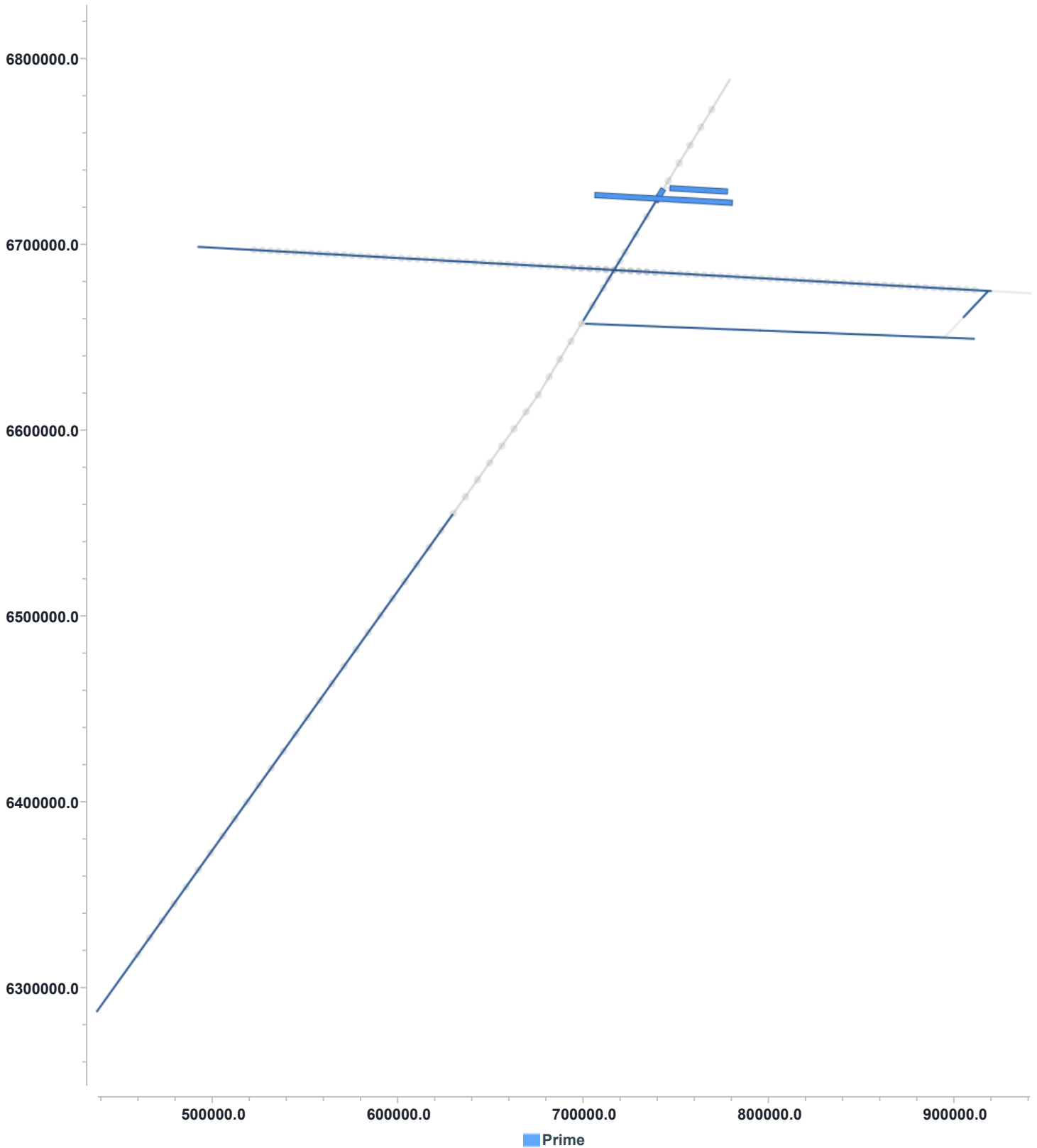
Iceland: Acppt
8/2/2024 - 9/7/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 9/7/2024
Source Only



Iceland: Accpt
8/2/2024 - 9/7/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Sat 07 Sep

9/7/2024

Page 8

Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 07 Sep

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth

Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:15	13:15	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

Daily Total Category	Code	Count
Toolbox Meetings	Mtgs_Tbox	2
Safety meeting just before dinner to discuss streamer ops		
Safety meeting on the streamer deck to discuss streamer ops with night shift		

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	0	5	5.000	
Abandon Ship Drill	AS	0	0	0	2	2.000	
Fire Drill	Fi	0	0	0	2	2.000	
MOB Drill	MOB	0	0	0	1	1.000	
Meetings	Mtgs	3	8	9	42	36.000	
Daily Ops Meeting	DOps	1	6	7	35	35.000	
Start-up Meeting	StUp	0	0	0	1	1.000	
Toolbox Meetings	Tbox	2	2	2	5		
Vessel HSE meeting	VHse	0	0	0	1		
Training	Trng	0	0	0	4	4.000	
Fire Team Training	FTT	0	0	0	2	2.000	
Other Training	OT	0	0	0	1	1.000	
Vessel Induction Tours	VIT	0	0	0	1	1.000	
Reports	Re	0	7	7	8		
Contractor	Con	0	7	7	8		
Task, Hazard, Control	THC	0	7	7	8		

9/8/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Sun 08 Sep

The tailbuoy was onboard at 05:02 and the vessel started to transit for Iceland.
 The seas were quite marginal on the transit north with the vessel taking some fairly large rolls.

Daily Comment Summaries - Plan for Tomorrow

Sun 08 Sep

Continue transiting to Iceland.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	05:02	Streamer Recovery	SB_PO_STR	5.033
Recover Streamer				
05:02	24:00	Transit From Prospect	DM_TF	18.967
Demobilising, In Transit from prospect for demobilisation ashore.				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

8-Sep	Hours	% Percent
Chargeable Standby	5.033	20.972
Planned Operations	5.033	20.972
Streamer Recovery	5.033	20.972
Demobilisation	18.967	79.028
Transit From Prospect	18.967	79.028
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	27.483	3.014
Source	8.233	0.903
Autofire	2.650	0.291
Deployment	5.583	0.612
Streamers	18.250	2.001
Vessel	1.000	0.110
Chargeable Standby	177.700	19.485
Field Operations	2.533	0.278
Planned Operations	76.900	8.432
Source Deployment	17.767	1.948
Source Recovery	11.233	1.232
Streamer Deployment	39.017	4.278

Category	Hours	% Percent
Streamer Recovery	8.883	0.974
Tests	7.267	0.797
Transit	26.200	2.873
Weather	64.800	7.105
Mobilisation	90.400	9.912
Mob Ashore	58.000	6.360
Transit to Prospect	32.400	3.553
Acquisition	597.450	65.510
Prime	268.417	29.432
Prime L/C	16.567	1.817
Receiver Deployment/Recovery	312.467	34.262
Free Fall OBS	312.467	34.262
Receiver Deployment	111.933	12.273
Receiver Recovery	194.867	21.367
Transit	5.667	0.621
Demobilisation	18.967	2.080
Transit From Prospect	18.967	2.080
Total	912.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

9/8/2024

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Accepted km	Day	Week	Month	Project
Prime	0	0	0	1092.75
Combined	0	0	0	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	0	831.45	831.45	1160.10
Combined	0	831.45	831.45	1160.10

Production Listing (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

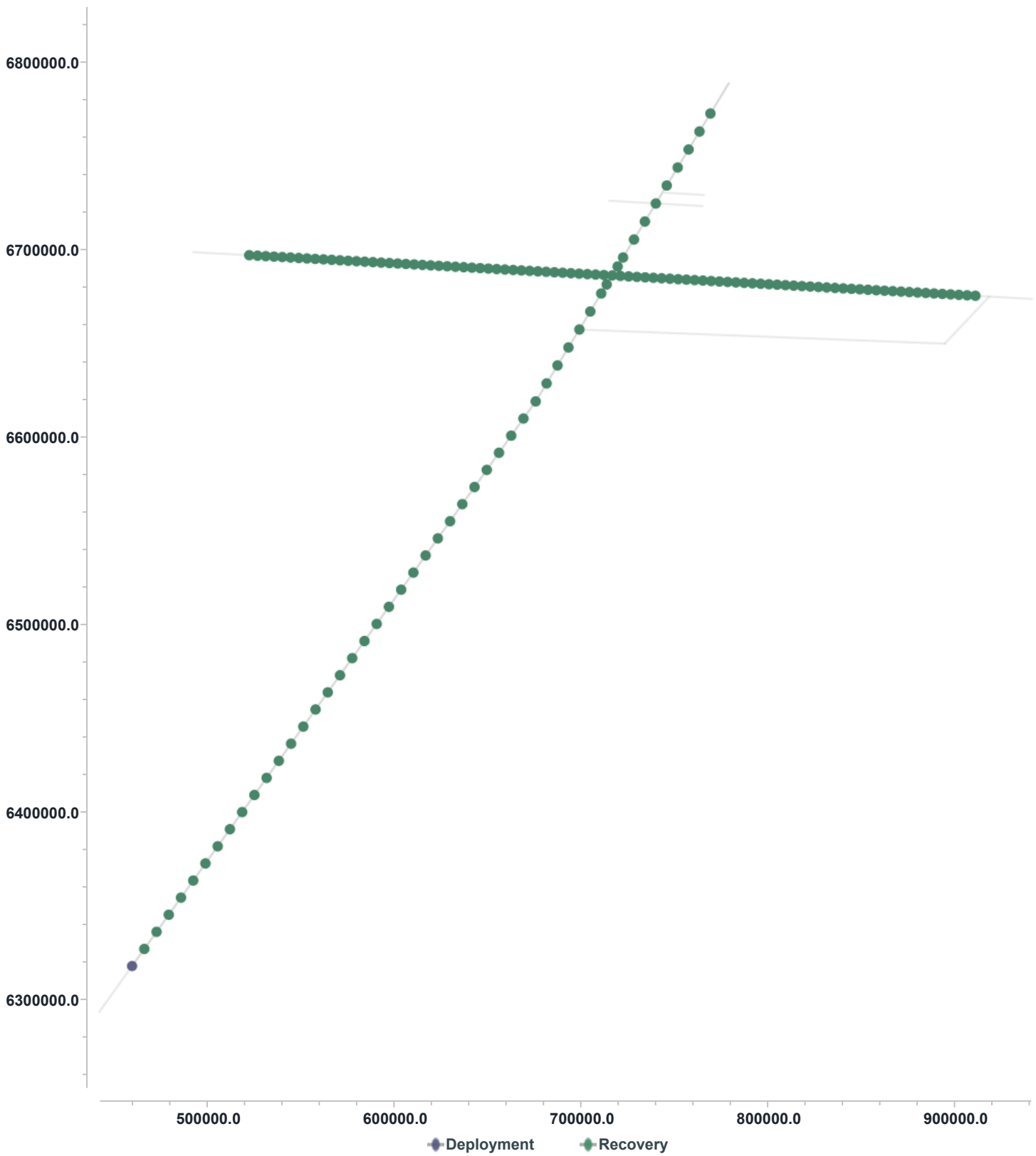
Accepted	Day	Week	Month	Project
Deployment	0	0	0	140
Recovery	0	0	0	139

Production Listing (points)

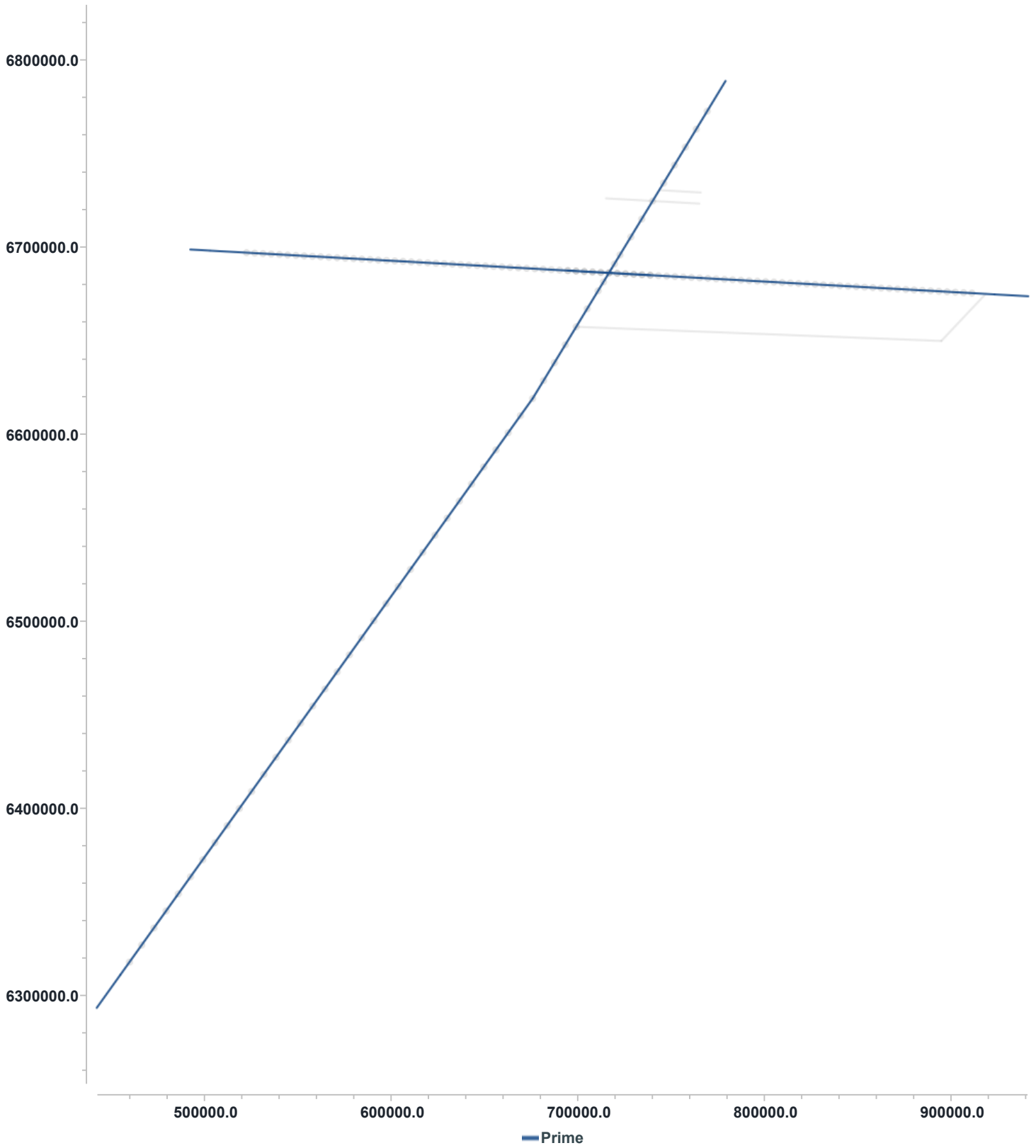
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

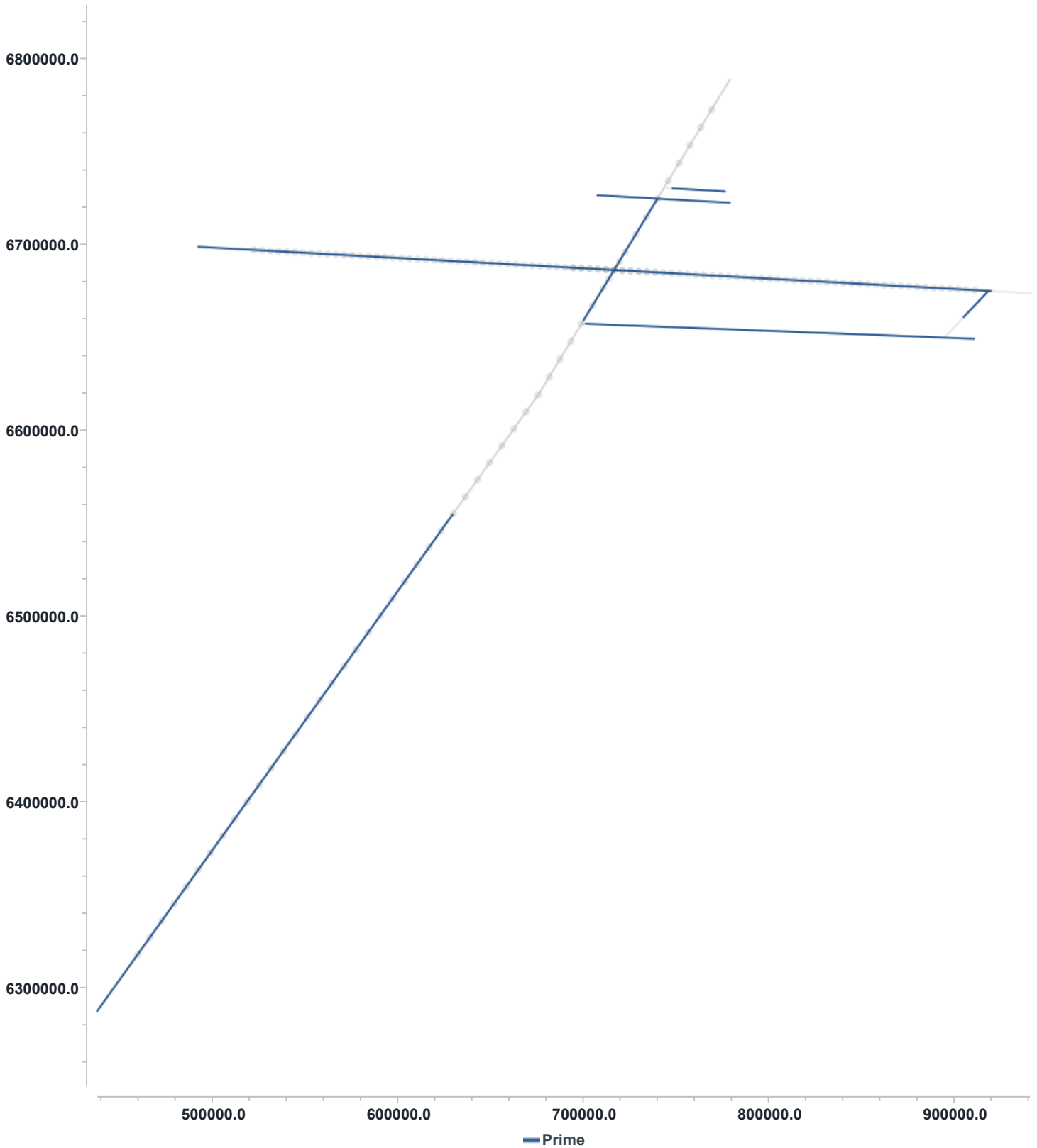
Iceland: Acppt
8/2/2024 - 9/8/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 9/8/2024
Source Only



Iceland: Accpt
8/2/2024 - 9/8/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Sun 08 Sep

9/8/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 08 Sep

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
 Malcolm Moody - Contract Source Mechanic
 Jason Rodham - Contract Source Mechanic
 Leon Da Silva Souza - Contract Source Mechanic
 Tomasz Kranz - Contract Source Mechanic

PSO Staff On-board the Langseth

Cassandra Frey - RPS Lead PSO
 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
 Ana Salomon - RPS PSO
 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth















Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:05	13:05	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	0	5	5.000	
Abandon Ship Drill	AS	0	0	0	2	2.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	0	2	2.000	
 MOB Drill	MOB	0	0	0	1	1.000	
 Meetings	Mtgs	1	9	10	43	37.000	
 Daily Ops Meeting	DOps	1	7	8	36	36.000	
 Start-up Meeting	StUp	0	0	0	1	1.000	
 Toolbox Meetings	Tbox	0	2	2	5		
 Vessel HSE meeting	VHse	0	0	0	1		
 Training	Trng	0	0	0	4	4.000	
 Fire Team Training	FTT	0	0	0	2	2.000	
 Other Training	OT	0	0	0	1	1.000	
 Vessel Induction Tours	VIT	0	0	0	1	1.000	
 Reports	Re	0	7	7	8		
 Contractor	Con	0	7	7	8		
 Task, Hazard, Control	THC	0	7	7	8		

9/9/2024

Page 1

Client: Lamont-Doherty Earth Observatory
Job No: MGL2408
Block: Iceland
Client Contact:
Consultancy:
Job No:

Contractor: Lamont-Doherty Earth Observatory
Job No: MGL2408
Vessel: Marcus G Langseth
Supervisor:
Party Chiefs: Cody Bahlau
Client Reps: Stephen Jones

Daily Comment Summaries - Daily Summary

Mon 09 Sep

The vessel was transiting until 15:10 when the pilot boarded.
 The vessel was tied up along side just after ~1600.

The teams started to prepare their work areas for demobilization.
 A lot of the work had to be put on hold during the transit due to the weather.

Daily Comment Summaries - Plan for Tomorrow

Mon 09 Sep

Demobilization goes in to full swing.
 Crane work for OBS gear is the main objective on the science side.

Timing Diary (Marcus G Langseth, MCS 15000m 50m)

Start	End	Category	Code	Duration (hrs)
00:00	15:48	Transit From Prospect	DM_TF	15.800
Demobilising, In Transit from prospect for demobilisation ashore.				
15:48	24:00	Demob Ashore	DM_DA	8.200
Demobilising ashore, in Hafnarfjordur Iceland.				

Timing Day by Day (Marcus G Langseth, MCS 15000m 50m)

9-Sep	Hours	% Percent
Demobilisation	24.000	100.000
Demob Ashore	8.200	34.167
Transit From Prospect	15.800	65.833
Day's Total	24.000	100.000

Timing Breakdown Summary - Project (Marcus G Langseth, MCS 15000m 50m, OBS_Deployment, Source Only)

Category	Hours	% Percent
DownTime	27.483	2.936
Source	8.233	0.880
Autofire	2.650	0.283
Deployment	5.583	0.597
Streamers	18.250	1.950
Vessel	1.000	0.107
Demobilisation	42.967	4.590
Demob Ashore	8.200	0.876
Transit From Prospect	34.767	3.714
Chargeable Standby	177.700	18.985
Field Operations	2.533	0.271
Planned Operations	76.900	8.216

Category	Hours	% Percent
Source Deployment	17.767	1.898
Source Recovery	11.233	1.200
Streamer Deployment	39.017	4.168
Streamer Recovery	8.883	0.949
Tests	7.267	0.776
Transit	26.200	2.799
Weather	64.800	6.923
Mobilisation	90.400	9.658
Mob Ashore	58.000	6.197
Transit to Prospect	32.400	3.462
Acquisition	597.450	63.830
Prime	268.417	28.677
Prime L/C	16.567	1.770
Receiver Deployment/Recovery	312.467	33.383
Free Fall OBS	312.467	33.383
Receiver Deployment	111.933	11.959
Receiver Recovery	194.867	20.819
Transit	5.667	0.605
Total	936.000	

Basic Project Details

Source Only					
General Details					
Record length:	0 ms	Sample rate:	0 ms	Shotpoint interval:	150 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	1
String Separation:	6 m	String length:	16 m		
Comment					
Source Only Shot in Time Mode: 60 seconds per shot					

Basic Project Details

MCS 15000m 50m					
General Details					
Record length:	20000 ms	Sample rate:	2 ms	Shotpoint interval:	50 m
CoS to CNG:	171 m	Fold Coverage:	0		
Cable Details					
No of Cables:	1	Chans Per Cable:	1200	Front Depth:	15 m
Tail Depth:	15 m	Length:	15000	Group interval:	12.5 m
Source Details					
No of Sources:	1	Total Volume:	6600 cu ins	Depth:	12
Pressure:	1950 PSI	Volume:	6600	Strings per source:	4
String Separation:	6 m	String length:	0 m		

Production Totals (Accpt Main km)

Source Only

9/9/2024

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Accepted km	Day	Week	Month	Project
Prime	0	0	0	1092.75
Combined	0	0	0	1092.75

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

MCS 15000m 50m

Accepted km	Day	Week	Month	Project
Prime	0	0	835.95	1164.60
Combined	0	0	835.95	1164.60

Production Listing (Acpt Main km) - Prime: Full Fold, Infill: Unknown

MCS 15000m 50m, Source Only

Seq	Line	FGSP	LGSP	Prod Type	Production	Ave Knots	Seq Status	Line Status
Total					0			

Production Totals (points)

OBS_Deployment

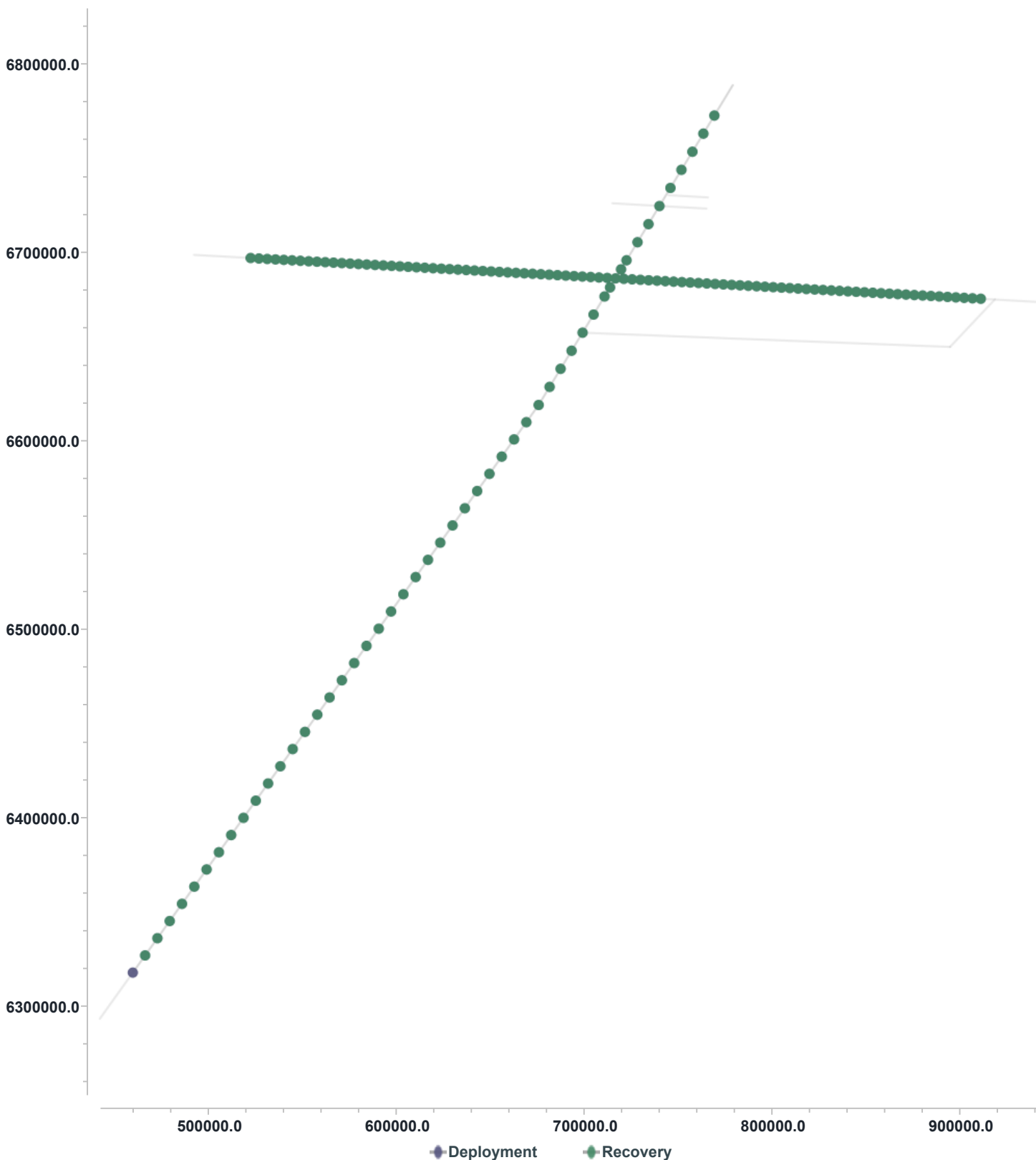
Accepted	Day	Week	Month	Project
Deployment	0	0	0	140
Recovery	0	0	0	139

Production Listing (points)

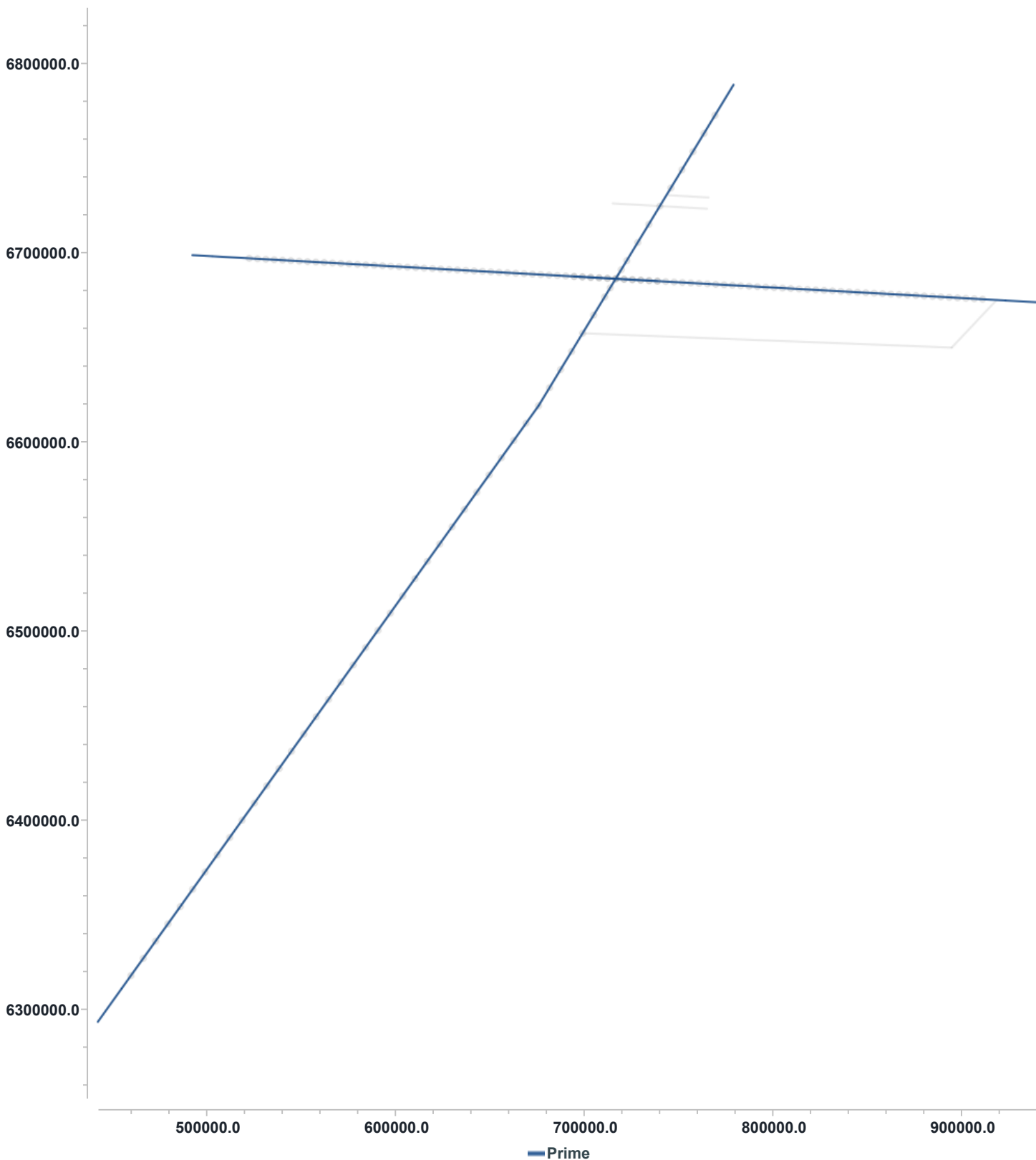
OBS_Deployment

Op	Line	FST	LST	Prod Type	Production	Ave Knots	Line Status
Total					0		

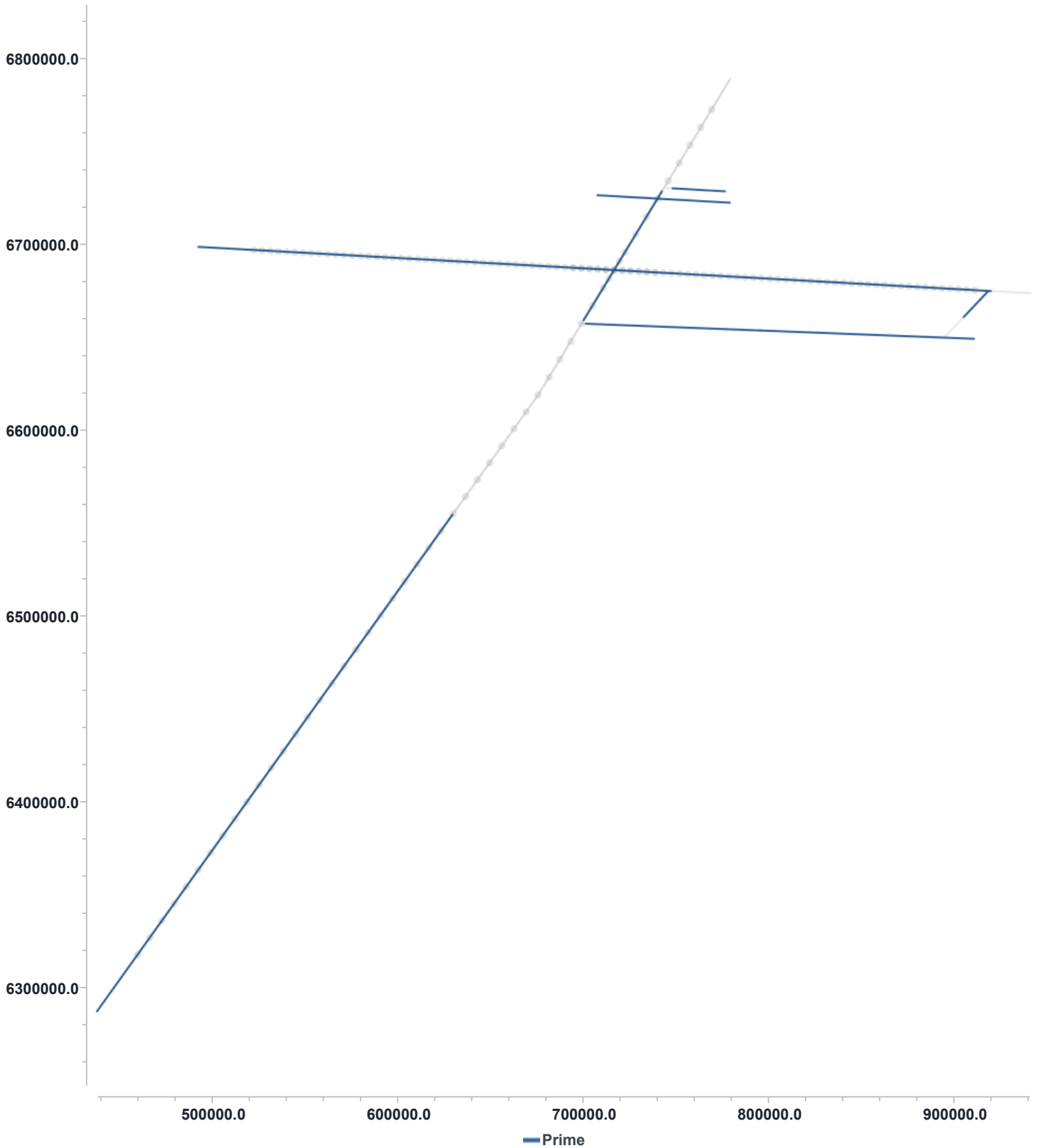
Iceland: Acppt
8/2/2024 - 9/9/2024
OBS_Deployment



Iceland: Acppt
8/2/2024 - 9/9/2024
Source Only



Iceland: Accpt
8/2/2024 - 9/9/2024
MCS 15000m 50m



Daily Comment Summaries - Daily Comments On Status of Equipment

Mon 09 Sep

9/9/2024

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Navigation:

No Major Issues to Report

Information Technology (IT):

No Major Issues to Report

Acquisition (MCS):

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 09 Sep

Technical Staff On-board the Langseth

Cody Bahlau L-DEO OMO Chief Science Officer
 Josh Kasinger L-DEO OMO Chief Source Mechanic
 Brian Agee L-DEO OMO Source Mechanic
 Gilles Guerin - L-DEO OMO Observer
 Riley Lopez - L-DEO OMO Observer
 Koray Ergun.- L-DEO OMO Navigator
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 Laura Galvan - RPS PSO
 Sharon Toro - RPS PSO
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 Karen Villegas - RPS PSO
 Lili Leticia - RPS PSO
 Chase McShane - RPS PSO
 Fernando Diaz - RPS PSO

Science Party On-board the Langseth















Stephen Jones - PI
 Tim Henstock - Co-PI
 Hazel Knight - Scientist
 Aisling Dunn - Scientist
 Philippa Stay - Scientist
 Margaret Morris - Scientist
 Callum Pearman - Scientist
 Aryan Shah - Scientist

HSE Events Diary (Marcus G Langseth)

Start	End	Category	Code
12:00	13:00	Daily Ops Meeting	Mtgs_DOps
HSE - Daily HSE Operation Meeting			

HSE Event Period Totals - Project (Marcus G Langseth)

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
Drills	Drls	0	0	0	5	5.000	
Abandon Ship Drill	AS	0	0	0	2	2.000	

Category	Code	Day (num)	Week (num)	Month (num)	Project (num)	Proj Hours	Man Hours
 Fire Drill	Fi	0	0	0	2	2.000	
 MOB Drill	MOB	0	0	0	1	1.000	
 Meetings	Mtgs	1	1	11	44	38.000	
 Daily Ops Meeting	DOps	1	1	9	37	37.000	
 Start-up Meeting	StUp	0	0	0	1	1.000	
 Toolbox Meetings	Tbox	0	0	2	5		
 Vessel HSE meeting	VHse	0	0	0	1		
 Training	Trng	0	0	0	4	4.000	
 Fire Team Training	FTT	0	0	0	2	2.000	
 Other Training	OT	0	0	0	1	1.000	
 Vessel Induction Tours	VIT	0	0	0	1	1.000	
 Reports	Re	0	0	7	8		
 Contractor	Con	0	0	7	8		
 Task, Hazard, Control	THC	0	0	7	8		