

Cruise : MGL1212

To: Office of Marine Operations
Cc: Reports Group
Fm: Jay Johnstone (Science Officer)

Cascadia – S. Holbrook

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-07-11	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-07-11
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	0:00
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	0:00
Ship Repair	0:00
Maneuvering	0:00
Port Call	24:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

46° 11.4337" N	123° 51.5383" W	
Wind: NW @ 12kts	Seas: in port	Depth: in port
SOG: in port	HDG: in port	

Cruise : MGL1212

To: Office of Marine Operations
Cc: Reports Group
Fm: Jay Johnstone (Science Officer)

Cascadia – S. Holbrook

R/V Marcus G. Langseth

3. TIME SUMMARY

0:00

24:00

Port Call Astoria, OR USA

4. Comments

Science Technical staff on board:

Science Officer – Jay Johnstone
Science Officer – David Martinson
Navigator – Mike Martello
Navigator – Grady Hanley
Acq. Technician – Bern McKiernan
Acq. Technician – Lisa Hawkins
Gun Mechanic – Carlos Gutierrez
Gun Mechanic – Chris Francis
Gun Mechanic – Michael Tatro
Gun Mechanic – Weston Groves

Science Party on board:

Chief Scientist – W. Steven Holbrook
Co-Chief Scientist: Graham Kent / Kathleen Keranen
Scientists:
Kate Allstadt, Robert Anthony, Shahar Barak, Jeffrey Beeson, Janine Buehler, Jacqueline Caplan-Auerbach, Brian Covellone, Brady Flinchum, Ashton Flinders, Will Fortin, Dalton Hawkins, Anna Kell, Dara Merz, Emily Roland, Marie Salmi, Danielle Sumy, Harold Tobin

Marine Mammal Observer Staff on board:

Heidi Ingram, Katherine Douglas, Tatiana Moreno, Emily Ellis, Meagan Cummings

5. Daily Summary:

The Vessel was alongside for the day in Astoria, Oregon receiving on-signing science party and preparing to sail for streamer deployment.

Tomorrow:

The Vessel will depart Astoria, OR at 0900 local time. Streamer deployment will commence 2-3 hrs after pilot departure and continue to end of UTC day.

Regards
Jay Johnstone

Cruise : MGL1212

To: Office of Marine Operations
Cc: Reports Group
Fm: Jay Johnstone (Science Officer)

Cascadia – S. Holbrook

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-07-12	<u>Sailed Km</u>
Prime	0.000
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-07-12
Production	0:00
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	0:00
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	0:00
Hydraulics	0:00
Source	0:00
Streamer	3:31
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	4:34
Ship Repair	0:00
Maneuvering	0:00
Port Call	15:55
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

46° 42.109" N	124° 52.770" W	
Wind: WNW @ 8kts	Seas: 1-2m	Depth: 609m
SOG: 3.5kt	HDG: 329deg	

Cruise : MGL1212

To: Office of Marine Operations
Cc: Reports Group
Fm: Jay Johnstone (Science Officer)

Cascadia – S. Holbrook

R/V Marcus G. Langseth

3. TIME SUMMARY

0:00	15:55	15:55	Port Call Astoria, OR USA
15:55	20:29	4:34	Transit to deployment waypoint
20:29	0:00	3:31	Deploying Streamer

4. Comments

Science Technical staff on board:

Science Officer – Jay Johnstone
Science Officer – David Martinson
Navigator – Mike Martello
Navigator – Grady Hanley
Acq. Technician – Bern McKiernan
Acq. Technician – Lisa Hawkins
Gun Mechanic – Carlos Gutierrez
Gun Mechanic – Chris Francis
Gun Mechanic – Michael Tatro
Gun Mechanic – Weston Groves

Science Party on board:

Chief Scientist – W. Steven Holbrook
Co-Chief Scientist: Graham Kent / Kathleen Keranen
Scientists:
Kate Allstadt, Robert Anthony, Shahar Barak, Jeffrey Beeson, Janine Buehler, Jacqueline Caplan-Auerbach, Brian Covellone, Brady Flinchum, Ashton Flinders, Will Fortin, Dalton Hawkins, Anna Kell, Dara Merz, Emily Roland, Marie Salmi, Danielle Sumy, Harold Tobin

Marine Mammal Observer Staff on board:

Heidi Ingram, Katherine Douglas, Tatiana Moreno, Emily Ellis, Meagan Cummings

5. Daily Summary:

The Vessel sailed from Astoria, OR at 0900 PST to begin MGL1212 survey. Streamer deployment commenced approx. 2.5 hours after pilot departed vessel. Deployment continuing at midnight UTC.

Tomorrow:

Complete streamer and gun deployment while heading for the south waypoint of Line 11 on the Holbrook preplots. Commence line to the north at approx 1000 UTC. Further shooting pattern requires coordination in the morning.

Regards
Jay Johnstone

Cruise : MGL1212

To: Office of Marine Operations
Cc: Reports Group
Fm: Jay Johnstone (Science Officer)

Cascadia – S. Holbrook

R/V Marcus G. Langseth

1. MCS PRODUCTION SUMMARY

2012-07-13	<u>Sailed Km</u>
Prime	61.300
Infill	0.000
Reshoot	0.000
Total:	0.000

2. STATISTICAL ANALYSIS (HH:MM)

<u>Time Activity Analysis</u>	2012-07-13
Production	7:48
Line Change	0:00
Weather	0:00
Instrument Acquisition	0:00
Instrument Navigation	0:00
OBS Rosette Drop Test	0:00
OBS Deployment	0:00
OBS Recovery	0:00
CTD Cast	0:00
Gravity Core	0:00
Piston Core	0:00
Multi-Core	0:00
Sonar Survey	0:00
Hydraulics	0:00
Source	11:11
Streamer	2:34
Seismic Air Compressor	0:00
Mitigation/PAM	0:00
Transit	2:27
Ship Repair	0:00
Maneuvering	0:00
Port Call	0:00
Other	0:00
Total:	24:00

UTC Midnight (24:00) Position / Heading:

47° 04' 23" N	125° 49' 22" W	
Wind: NW @ 14kts	Seas: 2m	Depth: 1503m
SOG: 4.1kt	HDG: 263deg	

Cruise : MGL1212

To: Office of Marine Operations
Cc: Reports Group
Fm: Jay Johnstone (Science Officer)

Cascadia – S. Holbrook

R/V Marcus G. Langseth

3. TIME SUMMARY

	Time	Amount of Time	Event	FSP	LSP	Total SP	Sail Line KM
0:00	2:34	2:34	Deploying Streamer				
2:34	7:11	4:37	Deploying Guns				
7:11	9:38	2:27	Transit to first line				
9:38	17:26	7:48	SOL MGL1212MCS11	838	2064	1226	61.300
17:26	0:00	6:34	Recovering guns - broken rope / tangle				

4. Comments

Science Technical staff on board:

Science Officer – Jay Johnstone
Science Officer – David Martinson
Navigator – Mike Martello
Navigator – Grady Hanley
Acq. Technician – Bern McKiernan
Acq. Technician – Lisa Hawkins
Gun Mechanic – Carlos Gutierrez
Gun Mechanic – Chris Francis
Gun Mechanic – Michael Tatro
Gun Mechanic – Weston Groves

Science Party on board:

Chief Scientist – W. Steven Holbrook
Co-Chief Scientist: Graham Kent / Kathleen Keranen
Scientists:
Kate Allstadt, Robert Anthony, Shahar Barak, Jeffrey Beeson, Janine Buehler, Jacqueline Caplan-Auerbach, Brian Covellone, Brady Flinchum, Ashton Flinders, Will Fortin, Dalton Hawkins, Anna Kell, Dara Merz, Emily Roland, Marie Salmi, Danielle Sumy, Harold Tobin

Marine Mammal Observer Staff on board:

Heidi Ingram, Katherine Douglas, Tatiana Moreno, Emily Ellis, Meagan Cummings

5. Daily Summary:

Streamer deployment completed, source deployed and headed for Seq001, MGL1212MCS11, to start at south waypoint of line. Turned onto line and in production heading north. Spectra navigation system crashed while online resulting in loss of some data while resolving issue. At 17:26 we aborted the sequence as Gun array 2 was towing with a broken tow rope for it's float and had become entangled in the streamer lead-in and arrays 3 and 4. At the end of the day, array 2 untangled and arrays 2, 3 and 4 on deck for repairs.

Tomorrow:

As of this writing, all arrays are redeployed and we are in transit production heading for the west waypoint of MGL1212MCS01. We will commence production to the east at approx.. 2100 PST and will continue production through tomorrow.

Regards
Jay Johnstone

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise: MGL1212

Date: 14-Jul-12

Reporter: JDJ

Daily Report

Midnight Position / Info

deg min

Lat: 47° 04 02.182 N

Lon: 124° 56 58.795 W

Speed over Ground: 04.57kt

Heading: 81°

Water Depth:

Midnight SP: 5404

Wind: calm

Seas: 1.5

Daily Summary

Started day redeploying arrays following gun tangle on 13-Jul

Started transit line back to the west to the start of MGL1212MCS01

Started MCS01 and shortly after SOL had a ship power blackout (propulsion maintained on STBD engine)

Circled through night back to beginning of MCS01 for daylight line start

MCS01 continuing at end of day

Plan for Tomorrow

Complete MCS01

Turn south to MCS03 and continue production

Time Analysis

MCS Production:

Prime: 104.1 Sail km

Infill: 0.000 Sail km

Reshoot: 10.350 Sail km

Total: 114.45 Sail km

Time Breakdown:

Production 14:18

Line Change 1:08

Weather Downtime 0:00

Technical Downtime 1:28

External Downtime 7:06

OBS Rosette Drop Test 0:00

OBS Deployment 0:00

OBS Recovery 0:00

CTD Cast 0:00

Gravity Core 0:00

Piston Core 0:00

Multi Core 0:00

Sonar Survey 0:00

Port Call 0:00

Transit 0:00

Total: 24:00

Technical Downtime:

Instrument Acquisition 0:00

Instrument Navigation 0:00

Hydraulics 0:00

Source 1:28

Streamer 0:00

Air Compressor 0:00

Total: 1:28

External Downtime:

Mitigation / PAM 0:00

Maneuvering 0:00

Ship Repair 7:06

Total: 7:06

Technical Staff Onboard:

Science Officer - Jay Johnstone

Science Officer - David Martinson

Navigator - Mike Martello

Navigator - Grady Hanley

Acq. Technician - Bern McKiernan

Acq. Technician - Lisa Hawkins

Gun Mechanic - Carlos Gutierrez

Gun Mechanic - Chris Francis

Gun Mechanic - Mike Tatro

Gun Mechanic - Weston Groves

Chief Scientist - Steven Holbrook

Co-Chief Scientist - Kathleen Keranen

Co-Chief Scientist - Graham Kent

Science Party:

Kate Allstadt

Robert Anthony

Shahar Barak

Jeffrey Beeson

Janine Buehler

Jacqueline Caplan-Auerbach

Brian Covellone

Brady Flinchum

Ashton Flinders

Will Fortin

Dalton Hawkins

Anna Kell

Dara Merz

Emily Roland

Marie Salmi

Danielle Sumy

Harold Tobin

Time Breakdown

[illegible]

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise: MGL1212

Date: 15-Jul-12

Reporter: JDJ

Daily Report

Midnight Position / Info

deg min

Lat: 46° 41 10.028 N

Lon: 126° 28 05.938 W

Speed over Ground: 04.65kt

Heading: 127°

Water Depth: 2617m

Midnight SP: L/C

Current Equipment Deployed

8100m Streamer

4 gun strings, 6600 cuin volume

PAM / Maggie

Technical Staff Onboard:

Science Officer - Jay Johnstone

Science Officer - David Martinson

Navigator - Mike Martello

Navigator - Grady Hanley

Acq. Technician - Bern McKiernan

Acq. Technician - Lisa Hawkins

Gun Mechanic - Carlos Gutierrez

Gun Mechanic - Chris Francis

Gun Mechanic - Mike Tatro

Gun Mechanic - Weston Groves

Chief Scientist - Steven Holbrook

Co-Chief Scientist - Kathleen Keranen

Co-Chief Scientist - Graham Kent

Science Party:

Kate Allstadt

Robert Anthony

Shahar Barak

Jeffrey Beeson

Janine Buehler

Jacqueline Caplan-Auerbach

Brian Covellone

Brady Flinchum

Ashton Flinders

Will Fortin

Dalton Hawkins

Anna Kell

Dara Merz

Emily Roland

Marie Salmi

Danielle Sumy

Harold Tobin

PSOs:

Heidi Ingram

Emily Ellis

Tatiana Moreno

Katherine Douglas

Meagan Cummings

Daily Summary

Started day in production on line MCS01 heading west

production aborted and south turn to avoid shrimp trawl fleet on the end of line 01

turned onto Line 03 avoiding fishing vessel traffic and encountering humpback activity during our transit to line

Started line 03 eastbound, completed line

Rewiring of power source for all lab equipment to exclude MG Set power generation in order to shut down the MG Set power dt failure concerns

Ramped up source and running in to Line 05 at midnight UTC

Plan for Tomorrow

Complete Line 05 production to east and turn to Line 07 production west.

Time Analysis

MCS Production:

Prime: 110.3 Sail km

Infill: 0.000 Sail km

Reshoot: 0.000 Sail km

Total: 110.3 Sail km

Time Breakdown:

Production 14:04

Line Change 4:33

Weather Downtime 0:00

Technical Downtime 0:00

External Downtime 5:23

OBS Rosette Drop Test 0:00

OBS Deployment 0:00

OBS Recovery 0:00

CTD Cast 0:00

Gravity Core 0:00

Piston Core 0:00

Multi Core 0:00

Sonar Survey 0:00

Port Call 0:00

Transit 0:00

Total: 24:00

Technical Downtime:

Instrument Acquisition 0:00

Instrument Navigation 0:00

Hydraulics 0:00

Source 0:00

Streamer 0:00

Air Compressor 0:00

Total: 0:00

External Downtime:

Mitigation / PAM 0:00


Maneuvering 0:00

Ship Repair 5:23

Total: 5:23

Time Breakdown

[illegible]



Columbia University | Earth Institute

Cruise: MGL1212

Date: 16-Jul-12

Reporter: JDJ

Daily Report

Midnight Position / Info

deg min

Lat: 46° 36 38.404 N

Lon: 125° 00 39.451 W

Speed over Ground: 04.30kt

Heading: 252°

Water Depth: 1222.0

Midnight SP: 13729

Current Equipment Deployed

8100m Streamer

4 gun strings, 6600 cuin volume

PAM / Maggie

Technical Staff Onboard:

Science Officer - Jay Johnstone

Science Officer - David Martinson

Navigator - Mike Martello

Navigator - Grady Hanley

Acq. Technician - Bern McKiernan

Acq. Technician - Lisa Hawkins

Gun Mechanic - Carlos Gutierrez

Gun Mechanic - Chris Francis

Gun Mechanic - Mike Tatro

Gun Mechanic - Weston Groves

Chief Scientist - Steven Holbrook

Co-Chief Scientist - Kathleen Keranen

Co-Chief Scientist - Graham Kent

Science Party:

Kate Allstadt

Robert Anthony

Shahar Barak

Jeffrey Beeson

Janine Buehler

Jacqueline Caplan-Auerbach

Brian Covellone

Brady Flinchum

Ashton Flinders

Will Fortin

Dalton Hawkins

Anna Kell

Dara Merz

Emily Roland

Marie Salmi

Danielle Sumy

Harold Tobin

PSOs:

Heidi Ingram

Emily Ellis

Tatiana Moreno

Katherine Douglas

Meagan Cummings

Daily Summary

Started day on "deep water" line change to MGL1212MCS05 after completing power swap over from MG Set power in main lab

After SOL MCS05, one loss of UPS power to streamer, lost 26 SP during streamer restart

MCS05 terminated dt Northern Light humpback sighting ahead of us on the line, turning toward MCS07

during linechange, recorded MGL1212MCST02, mitigation gun firing only, not recorded as production dt no source volume firing

Started MGL1212MCS07 on mitigation gun only dt humpbacks in vicinity, ramp up to full volume when able to do so without "taking" humpbacks

While online MCS07 at 2302UTC, maneuvering south in production to avoid long line surface float ahead identified by Northern Light

Heavy fishing vessel activity along the shallow water end of MCS07

Plan for Tomorrow

Complete MGL1212MCS07

line change to MGL1212MCS09 and continue production

Time Analysis

MCS Production:

Prime: 155.1 Sail km

Infill: 0.000 Sail km

Reshoot: 0.000 Sail km

Total: 155.1 Sail km

Time Breakdown:

Production 19:24

Line Change 4:36

Weather Downtime 0:00

Technical Downtime 0:00

External Downtime 0:00

OBS Rosette Drop Test 0:00

OBS Deployment 0:00

OBS Recovery 0:00

CTD Cast 0:00

Gravity Core 0:00

Piston Core 0:00

Multi Core 0:00

Sonar Survey 0:00

Port Call 0:00

Transit 0:00

Total: 24:00

Technical Downtime:

Instrument Acquisition 0:00

Instrument Navigation 0:00

Hydraulics 0:00

Source 0:00

Streamer 0:00

Air Compressor 0:00

Total: 0:00

External Downtime:

Mitigation / PAM 0:00

Maneuvering 0:00

Ship Repair 0:00

Total: 0:00

[illegible]

Cruise: MGL1212

Date: 17-Jul-12

Reporter: JDJ

Daily Report

Midnight Position / Info

deg min
Lat: 46° 29 52.325 N
Lon: 124° 50 11.026 W

Speed over Ground: 04.60kt
Heading: 72°

Water Depth: 1221.0
Midnight SP: 17724

Wind: calm Seas: 3m

Current Equipment Deployed

8100m Streamer
4 gun strings, 6600 cuin volume
PAM / Maggie

Technical Staff Onboard:

Science Officer - Jay Johnstone
Science Officer - David Martinson
Navigator - Mike Martello
Navigator - Grady Hanley
Acq. Technician - Bern McKiernan
Acq. Technician - Lisa Hawkins
Gun Mechanic - Carlos Gutierrez
Gun Mechanic - Chris Francis
Gun Mechanic - Mike Tatro
Gun Mechanic - Weston Groves

Chief Scientist - Steven Holbrook

Co-Chief Scientist - Kathleen Keranen
Co-Chief Scientist - Graham Kent

Science Party:

Kate Allstadt
Robert Anthony
Shahar Barak
Jeffrey Beeson
Janine Buehler
Jacqueline Caplan-Auerbach
Brian Covellone
Brady Flinchum
Ashton Flinders
Will Fortin
Dalton Hawkins
Anna Kell
Dara Merz
Emily Roland
Marie Salmi
Danielle Sumy
Harold Tobin

Daily Summary

Started day in production on line MCS07
Completed line, acquired T03 on mit gun during turn (not logged as production)
Acquiring MCS09 for rest of day
Two mitigation shut down periods while online for dolphins

Plan for Tomorrow

Plan was to shoot MCS09 and turn to MCS08 shooting west.
As this has been written later, sequence of events much different and spent most of next day repairing towed equipment after fishing gear strike on cable.

Time Analysis

MCS Production:

Prime: 159.9 Sail km

Infill: 0.000 Sail km

Reshoot: 0.000 Sail km

Total: 159.9 Sail km

Time Breakdown:

Production 20:05

Line Change 2:22

Weather Downtime 0:00

Technical Downtime 0:00

External Downtime 1:33

OBS Rosette Drop Test 0:00

OBS Deployment 0:00

OBS Recovery 0:00

CTD Cast 0:00

Gravity Core 0:00

Piston Core 0:00

Multi Core 0:00

Sonar Survey 0:00

Port Call 0:00

Transit 0:00

Total: 24:00

Technical Downtime:

Instrument Acquisition 0:00

Instrument Navigation 0:00

Hydraulics 0:00

Source 0:00

Streamer 0:00

Air Compressor 0:00

Total: 0:00

External Downtime:

Mitigation / PAM 1:33

Maneuvering 0:00

Ship Repair 0:00

Total: 1:33

PSOs:

Heidi Ingram
Emily Ellis
Tatiana Moreno
Katherine Douglas
Meagan Cummings

[illegible]

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise: MGL1212

Date: 18-Jul-12

Reporter: JDJ

Daily Report

Midnight Position / Info

deg min

Lat: 46° 31 04.083 N

Lon: 125° 27 21.974 W

Speed over Ground: 04.20kt

Heading: 269°

Water Depth: 1899.0

Midnight SP: 19233

Current Equipment Deployed

8100m Streamer

4 gun strings, 6600 cuin volume

PAM / Maggie

Technical Staff Onboard:

Science Officer - Jay Johnstone

Science Officer - David Martinson

Navigator - Mike Martello

Navigator - Grady Hanley

Acq. Technician - Bern McKiernan

Acq. Technician - Lisa Hawkins

Gun Mechanic - Carlos Gutierrez

Gun Mechanic - Chris Francis

Gun Mechanic - Mike Tatro

Gun Mechanic - Weston Groves

Chief Scientist - Steven Holbrook

Co-Chief Scientist - Kathleen Keranen

Co-Chief Scientist - Graham Kent

Science Party:

Kate Allstadt

Robert Anthony

Shahar Barak

Jeffrey Beeson

Janine Buehler

Jacqueline Caplan-Auerbach

Brian Covellone

Brady Flinchum

Ashton Flinders

Will Fortin

Dalton Hawkins

Anna Kell

Dara Merz

Emily Roland

Marie Salmi

Danielle Sumy

Harold Tobin

PSOs:

Heidi Ingram

Emily Ellis

Tatiana Moreno

Katherine Douglas

Meagan Cummings

Daily Summary

Started day in production on MCS09

shortly after start of day, ended line dt humpback whale inside mitigation zone ahead

During turn to line MCS08, streamer struck long line fishing gear anchor causing loss of bird comms.

Recovered guns and streamer to identify damage and make repairs

Streamer repaired and redeployed, guns deployed

Started MCS08 partly down the line away from shore hazards, HEAVY traffic in area

Plan for Tomorrow

Complete MCS08 and turn up to MCS06, shoot to East.

Time Analysis

MCS Production:

Prime: 14 Sail km

Infill: 0.000 Sail km

Reshoot: 0.000 Sail km

Total: 14 Sail km

Time Breakdown:

Production 1:41

Line Change 1:34

Weather Downtime 0:00

Technical Downtime 16:00

External Downtime 4:45

OBS Rosette Drop Test 0:00

OBS Deployment 0:00

OBS Recovery 0:00

CTD Cast 0:00

Gravity Core 0:00

Piston Core 0:00

Multi Core 0:00

Sonar Survey 0:00

Port Call 0:00

Transit 0:00

Total: 24:00

Technical Downtime:

Instrument Acquisition 0:00

Instrument Navigation 0:00

Hydraulics 0:00

Source 2:20

Streamer 13:40

Air Compressor 0:00

Total: 16:00

External Downtime:

Mitigation / PAM 0:00

Maneuvering 3:50

Ship Repair 0:55

Total: 4:45

Time Breakdown

[illegible]

Cruise: MGL1212

Date: 18-Jul-12

Reporter: JDJ

Daily Report

Midnight Position / Info

deg min
Lat: 46° 31 04.083 N
Lon: 125° 27 21.974 W

Speed over Ground: 04.20kt
Heading: 269°

Water Depth: 1899.0
Midnight SP: 19233

Current Equipment Deployed

8100m Streamer
4 gun strings, 6600 cuin volume
PAM / Maggie

Technical Staff Onboard:

Science Officer - Jay Johnstone
Science Officer - David Martinson
Navigator - Mike Martello
Navigator - Grady Hanley
Acq. Technician - Bern McKiernan
Acq. Technician - Lisa Hawkins
Gun Mechanic - Carlos Gutierrez
Gun Mechanic - Chris Francis
Gun Mechanic - Mike Tatro
Gun Mechanic - Weston Groves

Chief Scientist - Steven Holbrook

Co-Chief Scientist - Kathleen Keranen
Co-Chief Scientist - Graham Kent

Science Party:

Kate Allstadt
Robert Anthony
Shahar Barak
Jeffrey Beeson
Janine Buehler
Jacqueline Caplan-Auerbach
Brian Covellone
Brady Flinchum
Ashton Flinders
Will Fortin
Dalton Hawkins
Anna Kell
Dara Merz
Emily Roland
Marie Salmi
Danielle Sumy
Harold Tobin

Daily Summary

Started day in production on MCS09
shortly after start of day, ended line dt humpback whale inside mitigation zone ahead
During turn to line MCS08, streamer struck long line fishing gear anchor causing loss of bird comms.
Recovered guns and streamer to identify damage and make repairs
Streamer repaired and redeployed, guns deployed
Started MCS08 partly down the line away from shore hazards, HEAVY traffic in area

Plan for Tomorrow

Complete MCS08 and turn up to MCS06, shoot to East.

Time Analysis

MCS Production:

Prime: 14 Sail km

Infill: 0.000 Sail km

Reshoot: 0.000 Sail km

Total: 14 Sail km

Time Breakdown:

Production 1:41

Line Change 1:34

Weather Downtime 0:00

Technical Downtime 2:25

External Downtime 18:20

OBS Rosette Drop Test 0:00

OBS Deployment 0:00

OBS Recovery 0:00

CTD Cast 0:00

Gravity Core 0:00

Piston Core 0:00

Multi Core 0:00

Sonar Survey 0:00

Port Call 0:00

Transit 0:00

Total: 24:00

Technical Downtime:

Instrument Acquisition 0:00

Instrument Navigation 0:00

Hydraulics 0:00

Source 0:00

Streamer 2:25

Air Compressor 0:00

Total: 2:25

External Downtime:

Mitigation / PAM 0:00

Maneuvering 3:50

Ship Repair 0:55

Fishing Gear 13:35

Total: 18:20

PSOs:

Heidi Ingram
Emily Ellis
Tatiana Moreno
Katherine Douglas
Meagan Cummings

[illegible]

Cruise: MGL1212

Date: 19-Jul-12

Reporter: JDJ

Daily Report

Midnight Position / Info

deg min
Lat: 46° 52 30.100 N
Lon: 124° 32 43.91 W

Speed over Ground: 04.10kt
Heading: 317°

Water Depth: 090.0
Midnight SP: L/C

Current Equipment Deployed

8100m Streamer
4 gun strings, 6600 cuin volume
PAM / Maggie

Technical Staff Onboard:

Science Officer - Jay Johnstone
Science Officer - David Martinson
Navigator - Mike Martello
Navigator - Grady Hanley
Acq. Technician - Bern McKiernan
Acq. Technician - Lisa Hawkins
Gun Mechanic - Carlos Gutierrez
Gun Mechanic - Chris Francis
Gun Mechanic - Mike Tatro
Gun Mechanic - Weston Groves

Chief Scientist - Steven Holbrook

Co-Chief Scientist - Kathleen Keranen
Co-Chief Scientist - Graham Kent

Science Party:

Kate Allstadt
Robert Anthony
Shahar Barak
Jeffrey Beeson
Janine Buehler
Jacqueline Caplan-Auerbach
Brian Covellone
Brady Flinchum
Ashton Flinders
Will Fortin
Dalton Hawkins
Anna Kell
Dara Merz
Emily Roland
Marie Salmi
Danielle Sumy
Harold Tobin

Daily Summary

Started day on line MCS08
shot MCST04 on line change to MCS06
Production on line MCS06 shooting East towards shore, increasing mammal mitigation as we approached shore until shut down and ended line
Shot MCST05 on mitigation gun line change to MCS04, shut down dt humpback proximity to vessel, on "silent" line change toward MCS04 at end of day

Plan for Tomorrow

Start production on MCS04 when able d/t mammal mitigation
complete MCS04 and turn to MCS02

Time Analysis

MCS Production:

Prime: 157.7 Sail km

Infill: 0.000 Sail km

Reshoot: 0.000 Sail km

Total: 157.7 Sail km

Time Breakdown:

Production 19:09

Line Change 1:01

Weather Downtime 0:00

Technical Downtime 0:00

External Downtime 3:50

OBS Rosette Drop Test 0:00

OBS Deployment 0:00

OBS Recovery 0:00

CTD Cast 0:00

Gravity Core 0:00

Piston Core 0:00

Multi Core 0:00

Sonar Survey 0:00

Port Call 0:00

Transit 0:00

Total: 24:00

Technical Downtime:

Instrument Acquisition 0:00

Instrument Navigation 0:00

Hydraulics 0:00

Source 0:00

Streamer 0:00

Air Compressor 0:00

Total: 0:00

External Downtime:

Mitigation / PAM 3:50

Maneuvering

Ship Repair

Fishing Gear

Total: 3:50

PSOs:

Heidi Ingram
Emily Ellis
Tatiana Moreno
Katherine Douglas
Meagan Cummings

Time Breakdown

[illegible]

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise: MGL1212

Date: 20-Jul-12

Reporter: JDJ

Daily Report

Midnight Position / Info

deg min

Lat: 46° 56 47.182 N

Lon: 125° 31 43.267 W

Speed over Ground: 04.60kt

Heading: 89°

Water Depth: 1867.0

Midnight SP: 28797

Current Equipment Deployed

8100m Streamer

4 gun strings, 6600 cuin volume

PAM / Maggie

Technical Staff Onboard:

Science Officer - Jay Johnstone

Science Officer - David Martinson

Navigator - Mike Martello

Navigator - Grady Hanley

Acq. Technician - Bern McKiernan

Acq. Technician - Lisa Hawkins

Gun Mechanic - Carlos Gutierrez

Gun Mechanic - Chris Francis

Gun Mechanic - Mike Tatro

Gun Mechanic - Weston Groves

Chief Scientist - Steven Holbrook

Co-Chief Scientist - Kathleen Keranen

Co-Chief Scientist - Graham Kent

Science Party:

Kate Allstadt

Robert Anthony

Shahar Barak

Jeffrey Beeson

Janine Buehler

Jacqueline Caplan-Auerbach

Brian Covellone

Brady Flinchum

Ashton Flinders

Will Fortin

Dalton Hawkins

Anna Kell

Dara Merz

Emily Roland

Marie Salmi

Danielle Sumy

Harold Tobin

Daily Summary

Started day on line change to MCS04

First part of MCS04 only mit gun firing, ramped up to full volume and in production to west

acquired MCST06 on line change to MCS02

acquiring MCS02 at midnight

Plan for Tomorrow

Turn off MCS02 before reaching fishing gear scouted by Northern Light

Turn down to MCS03, continue west shooting shelf portion of MCS03

Line change to Trehu North line and acquire from east to west

Time Analysis

MCS Production:

Prime: 181.9 Sail km

Infill: 0.000 Sail km

Reshoot: 0.000 Sail km

Total: 181.9 Sail km

Time Breakdown:

Production 20:32

Line Change 0:40

Weather Downtime 0:00

Technical Downtime 0:00

External Downtime 2:48

OBS Rosette Drop Test 0:00

OBS Deployment 0:00

OBS Recovery 0:00

CTD Cast 0:00

Gravity Core 0:00

Piston Core 0:00

Multi Core 0:00

Sonar Survey 0:00

Port Call 0:00

Transit 0:00

Total: 24:00

Technical Downtime:

Instrument Acquisition 0:00

Instrument Navigation 0:00

Hydraulics 0:00

Source 0:00

Streamer 0:00

Air Compressor 0:00

Total: 0:00

External Downtime:

Mitigation / PAM 2:48

Maneuvering

Ship Repair

Fishing Gear

Total: 2:48

PSOs:

Heidi Ingram

Emily Ellis

Tatiana Moreno

Katherine Douglas

Meagan Cummings

Time Breakdown

[illegible]

Heidi Ingram
Emily Ellis
Tatiana Moreno
Katherine Douglas
Meagan Cummings

Total: 24:00

Time Breakdown

[illegible]

Lamont-Doherty Earth Observatory

COLUMBIA UNIVERSITY | EARTH INSTITUTE

Cruise: MGL1212

Date: 22-Jul-12

Reporter: JDJ

Daily Report

Midnight Position / Info

deg min

Lat: 46° 29 45.679 N

Lon: 125° 54 21.9 W

Speed over Ground: 04.80kt

Heading: 255°

Water Depth: 1499.0

Midnight SP: L/C

Current Equipment Deployed

8100m Streamer

4 gun strings, 6600 cuin volume

PAM / Maggie

Technical Staff Onboard:

Science Officer - Jay Johnstone

Science Officer - David Martinson

Navigator - Mike Martello

Navigator - Grady Hanley

Acq. Technician - Bern McKiernan

Acq. Technician - Lisa Hawkins

Gun Mechanic - Carlos Gutierrez

Gun Mechanic - Chris Francis

Gun Mechanic - Mike Tatro

Gun Mechanic - Weston Groves

Chief Scientist - Steven Holbrook

Co-Chief Scientist - Kathleen Keranen

Co-Chief Scientist - Graham Kent

Science Party:

Kate Allstadt

Robert Anthony

Shahar Barak

Jeffrey Beeson

Janine Buehler

Jacqueline Caplan-Auerbach

Brian Covellone

Brady Flinchum

Ashton Flinders

Will Fortin

Dalton Hawkins

Anna Kell

Dara Merz

Emily Roland

Marie Salmi

Danielle Sumy

Harold Tobin

Daily Summary

Started day on transit line MCST08

Shot MCS10 to the south end of prospect

line change to MCS09A - first source comparison test line

completed first test line and on line change at midnight

Plan for Tomorrow

Complete two remaining source test lines and recover all towed seismic equipment

start transit over to remaining multibeam coverage area

Astoria pilot booked for July 24, 1030 PST

Time Analysis

MCS Production:

Prime: 126.7 Sail km

Infill: 0.000 Sail km

Reshoot: 0.000 Sail km

Total: 126.7 Sail km

Time Breakdown:

Production 16:10

Line Change 6:42

Weather Downtime 0:00

Technical Downtime 0:00

External Downtime 1:08

OBS Rosette Drop Test 0:00

OBS Deployment 0:00

OBS Recovery 0:00

CTD Cast 0:00

Gravity Core 0:00

Piston Core 0:00

Multi Core 0:00

Sonar Survey 0:00

Port Call 0:00

Transit 0:00

Total: 24:00

Technical Downtime:

Instrument Acquisition 0:00

Instrument Navigation 0:00

Hydraulics 0:00

Source 0:00

Streamer 0:00

Air Compressor 0:00

Total: 0:00

External Downtime:

Mitigation / PAM 1:08

Maneuvering

Ship Repair

Fishing Gear

Total: 1:08

PSOs:

Heidi Ingram

Emily Ellis

Tatiana Moreno

Katherine Douglas

Meagan Cummings

Time Breakdown

[illegible]

[illegible]