

# APPENDIX 1: LDEO Tech-in-Charge Daily Reports

## Daily Report for 11 Sept. 2008

### 1. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

##### Sailed Km

09/11/2008

Prime	0.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

#### Time Activity Analysis

09/11/2008

Recording	0.00
Line Change	0.00
Maneuvering	0:00
Weather	0:00
Fishing Interferences	0:00
Instrument	0:00
Hydraulics	0:00
Source	0.00
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	24:00
Mobilization	0.00
Streamer Control	0.00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
Total:	24.00

### 2. TIME SUMMARY

Start	End	Description / Comments
00:00	24:00	Transit to Prospect Area.

UTC Midnight (24:00) Position / Heading:

Pos 49 42.60234 N  
128 35.41586 W  
HDG: 318 Deg  
SPEED: 9.9 Kts

**Weather:**

Winds: WNW @ 10-15 kts..  
Seas 4-6 ft

**Comments:** Local time is UTC-7.

**Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Robert Steinhaus  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

**Daily Summary:**

We Continued Transiting towards prospect. We are continuing to work on Equipment and Towed Gear that needs to be made ready before we can start deployment of the streamer equipment. We have also been helping the OBS Tech get the data inputs they need up to the Dry Lab from the Main Lab.

**Tomorrow:**

We will continue the transit to the prospect area, continuing working on equipment and task that need to be completed before deployment of the gear can start

**Daily Report for 12 Sept. 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

**Sailed Km**

**09/12/2008**

Prime	0.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis**

**09/12/2008**

Recording	0.00
Line Change	0.00
Maneuvering	0:00
Weather	0:00
Fishing Interferences	0:00
Instrument	0:00
Hydraulics	0:00
Source	0.00
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	24:00
Mobilization	0.00
Streamer Control	0.00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	24:00	Transit to Prospect Area.

### **UTC Midnight (24:00) Position / Heading:**

Pos 52 51.056 N  
132 36.669 W  
HDG: 328 Deg  
SPEED: 10 Kts

### **Weather:**

Winds: Light & Variable  
Seas 1-3 ft

**Comments:** Local time is UTC-7.

### **Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Robert Steinhaus  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)

5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

Daily Summary:

We Continued Transiting towards prospect. We are continuing to work on Equipment and Towed Gear that needs to be made ready before we can start deployment of the streamer equipment. We have also been helping the OBS Tech get the data inputs they need up to the Dry Lab from the Main Lab.

Tomorrow:

We will continue the transit to the prospect area, continuing working on equipment and task that need to be completed before deployment of the gear can start. We will also make a close pass to Sitka, Alaska to Evac Robert Steinhaus (myself) due to so I can make my way back to Texas to survey the damage caused by hurricane Ike land fall near my home and make any repairs needed.

**Daily Report for 14 Sept. 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**09/14/2008**

Prime	0.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis**

**09/14/2008**

Recording	0.00
Line Change	0.00
Maneuvering	0:00
Weather	0:00
Fishing Interferences	0:00
Instrument	0:00
Hydraulics	0:00
Source	0.00
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	12:50
Mobilization	0.00
Streamer Control	0.00

Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS deployments	11:50
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	12:30	Transit to Prospect Area
12:30	13:20	Prepare for OBS deployment 125
13:20	13:21	deployment OBS125
13:21	14:45	Transit/preparing for OBS124
14:45	14:46	Deploy OBS0124
14:46	15:50	Transit/preparing for OBS123
15:50	15:51	Deploy OBS123
15:51	16:59	Transit/preparing for OBS122
16:59	17:00	Deploy OBS0122
17:00	18:05	Transit/preparing for OBS121
18:05	18:06	Deploy OBS0121
18:06	19:10	Transit/preparing for OBS120
19:10	19:11	Deploy OBS0120
19:11	20:35	Transit/preparing for OBS119
20:35	20:36	Deploy OBS0119
20:36	21:33	Transit/preparing for OBS118
21:33	21:34	Deploy OBS0118
21:34	22:43	Transit/preparing for OBS117
22:43	22:44	Deploy OBS0117
22:44	23:43	Transit/preparing for OBS116
23:43	23:44	Deploy OBS0116
23:44	24:00	Transit/preparing for OBS115

### **UTC Midnight (24:00) Position / Heading:**

Pos 58 56.0169 N  
139 57.8967 W  
HDG: 308 Deg  
SPEED: 10 Kts

### **Weather:**

Winds: Breezy raining  
Seas 4-6 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

Daily Summary:

Began deploying OBS instruments at 1320 UTC we have 10 instruments deployed by 2343 UTC. Anemeter failure makes it difficult to predict lee of vessel for personnel working on deck. Science team investigating second wind bird on forward mast as a replacement input.

Tomorrow:

We will continue deploying OBS instruments to the end of STEEP01 then begin our deploying of the streamer by mid morning to late afternoon.

**Daily Report for 15 Sept. 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**09/15/2008**

Prime	0.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis**

**09/15/2008**

Recording	0.00
Line Change	0.00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0.00
Streamer	10.26
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00

Transit	0:00
Mobilization	0.00
Streamer Control	0.00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS Deployment	13:34
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	00:47	Transit/preparing for OBS115
00:47	00:48	Deploy OBS0115
00:48	01:42	Transit/preparing for OBS114
01:42	01:43	Deploy OBS0114
01:43	02:34	Transit/preparing for OBS113
02:34	02:35	Deploy OBS0113
02:35	03:39	Transit/preparing for OBS112
03:39	03:40	Deploy OBS0112
03:40	04:32	Transit/preparing for OBS111
04:32	04:33	Deploy OBS0111
04:33	05:32	Transit/preparing for OBS110
05:32	05:33	Deploy OBS110
05:33	06:23	Transit/preparing for OBS109
06:23	06:24	Deploy OBS0109
06:24	07:22	Transit/preparing for OBS108
07:22	07:23	Deploy OBS0108
07:23	08:15	Transit/preparing for OBS107
08:15	08:16	Deploy OBS0107
08:16	09:14	Transit/preparing for OBS106
09:14	09:15	Deploy OBS0106
09:15	10:08	Transit/preparing for OBS105
10:08	10:09	Deploy OBS0104
10:09	11:00	Transit/preparing for OBS104
11:00	11:01	Deploy OBS0104
11:01	11:50	Transit/preparing for OBS103
11:50	11:51	Deploy OBS0103
11:51	12:39	Transit/preparing for OBS102
12:39	12:40	Deploy OBS0102
12:40	13:34	Transit/preparing for OBS101
13:34	13:35	deploy OBS101
13:35	14:26	transit to streamer deployment area
14:26	24:00	deployment of streemer.

**UTC Midnight (24:00) Position / Heading:**

Pos 59 47.064 N  
142 57.058 W  
HDG: 175 Deg  
SPEED: 4.0 Kts

**Weather:**

Winds: Breezy raining  
Seas 4-6 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

**Daily Summary:**

We completed OBS deployments by 0530 Local. The tail buoy was deployed at 0630 local and 8K of streamer took until 2015 local to complete. This prevented us from getting the source deployed to begin shooting before sunset. Weather reports indicate a low is moving in with sea state at 3-4 meters and winds at 20 kts gusting to 50 kts. Tomorrow:

We plan on having the guns out and properly placed prior to sunrise for the MMO to complete a visual surveillance so we can begin our survey of STEEP09. I have allocated a few hours to getting the wind speed indicator displayed to the bridge.

**Daily Report for 16 Sept. 2008****1. STATISTICAL ANALYSIS (DECIMAL HOURS)****Line Charge Analysis****Sailed Km****09/16/2008**

Prime	43.2500
Infill	0.0000
Reshoot	0.0000
Total:	43.2500



**Time Activity Analysis****09/16/2008**

Recording	4.46
Line Change	0:00
Maneuvering	4.44
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	2.30
Streamer	9.46
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	0:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS Deployment	2.14

Total: 24.00

**2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	02:14	Continue Streamer deployment
02:14	12:00	Streamer deployed/maneuvering
12:00	14:30	deploying guns
14:30	19:14	guns deployed maneuvering towards line
19:14	00:00	Line STEEP09 FSP711 MSP1576 Line continues on new day.

**UTC Midnight (24:00) Position / Heading:**

Pos 59 47.064 N  
142 57.058 W  
HDG: 175 Deg  
SPEED: 4.0 Kts

**Weather:**

Winds: Breezy raining  
Seas 4-6 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

**Daily Summary:**

Deployed source with some wrangling with moving the yale grip on the streamer another 50 meters and then placing the guns in the correct position guns all in place at 1753 UTC  
First shot fired at 1845 UTC. Mammal sighting at 1936 UTC powered down for dolphin  
Ramp up began 1954 no more MMO sightings.

**Tomorrow:**

Continue shooting line STEEP09 then go to STEEP 13. Investigated Wind speed indicator and have a plan to get the second wind bird to the bridge.

**Daily Report for 17 Sept. 2008****1. STATISTICAL ANALYSIS (DECIMAL HOURS)****Line Charge Analysis****Sailed Km****09/17/2008**

Prime	188.8000
Infill	0.0000
Reshoot	0.0000
Total:	188.8000

**Time Activity Analysis****09/17/2008**

Recording	23.04
Line Change	0:56
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	0:00

Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	00:00	First shot of day 1577 STEEP09
00:00	06:04	EOL of STEEP09 LSP 2510
06:04	06:49	Line Change to Start of Line STEEP15 FSP 996
06:49	10:04	EOL of STEEP15 LSP1585
10:04	10:16	Line Change to Start of line STEEP13 FSP 1007
10:16	24:00	STEEP 13 continues to new day MSP3261.

### **UTC Midnight (24:00) Position / Heading:**

Pos 59 22 13857 N  
143 04 00672 W  
HDG: 348 Deg  
SPEED: 4.0 Kts

### **Weather:**

Winds: Breezy raining  
Seas 4-6 feet

**Comments:** Local time is UTC-8.

### **Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

### **Daily Summary:**

Good day of recording seismic data. Completed STEEP09/STEEP15 and most of STEEP13

Tomorrow:  
Finish STEEP13 maneuver for STEEP07

## **Daily Report for 18 Sept. 2008**

### **1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

#### **Line Charge Analysis**

##### **Sailed Km**

**09/18/2008**

Prime	118.7500
Infill	0.0000
Reshoot	0.0000
Total:	118.7500

#### **Time Activity Analysis**

**09/18/2008**

Recording	15.55
Line Change	4:05
Maneuvering	0:00
Weather	4:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	0:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
Total:	24.00

### **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	00:00	MSP 3261 STEEP13
00:00	02:53	EOL of STEEP13 LSP 3727
02:53	06:52	Maneuver to STEEP07 FSP 921
06:52	19:54	EOL STEEP07 LSP2830
19:54	24:00	Maneuver for re-shoot of STEEP07 due to weather.

**UTC Midnight (24:00) Position / Heading:**

Pos 58 51.695 N  
144 26.826 W  
HDG: 191 Deg  
SPEED: 4.0 Kts

**Weather:**

Winds: 33 KTS raining  
Seas 9-12 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

**Daily Summary:**

Completed STEEP13 line change to STEEP07. String 2 gun 1 developed a leak made repairs during line change. Weather picked up significantly causing Maggie and PAM to entangle in gun umbilical. Was able to recover Maggie but PAM is currently powered down and is most likely damaged and is still deployed. Maggie was stowed back onboard till weather clears. Very difficult day trying to get the streamer to maintain depth tried a reshoot of line STEEP07 to no avail.

**Tomorrow:**

Finish STEEP07B hopefully weather will improve as forecast and perform gun maintenance while making transit to STEEP01.

**Daily Report for 19 Sept. 2008****1. STATISTICAL ANALYSIS (DECIMAL HOURS)****Line Charge Analysis****Sailed Km**

	<b>09/19/2008</b>
Prime	84.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis**

**09/19/2008**

Recording	18.05
Line Change	1:10
Maneuvering	0:00
Weather	4:45
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	0:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
Total: 24.00	

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	00:04	Continued maneuver from previous day
00:04	00:19	SOL STEEP07A FSP 2690
00:19	00:19	EOL STEEP07A due to weather LSP2776
00:19	05:04	Continued on STEEP07 but unable to record due to weather
05:04	05:05	SOL STEEP07B FSP 3338
05:05	10:22	EOL STEEP07B LSP 3990
10:22	11:43	Transit to STEEP16
11:43	11:44	SOL STEEP16 FSP 1042
11:44	18:47	EOL STEEP16 LSP 1644
18:47	20:30	Line change for STEEP19
20:30	20:31	SOL STEEP19 FSP 990
20:31	21:47	EOL STEEP19 LSP 1088
21:47	21:48	SOL STEEP18 FSP 995
21:48	24:00	Continue line to new day MSP1237.

### **UTC Midnight (24:00) Position / Heading:**

Pos 58 59 16 18220 N  
143 31 70781 W  
HDG: 74Deg  
SPEED: 4.0 Kts

**Weather:**

Winds: 33 KTS raining  
Seas 9-12 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

**Daily Summary:**

STEEP07 was difficult at best with very little actually shot well due to sea state until 1400 UTC when we finally were able to get the streamer back down to 12m. Gun string 2 needed repairs and was retrieved. PAM was recovered as well with no damage to PAM streamer only to the towed cable. Deployed guns and all seem to be working well 6600 cubic inch volume completed STEEP19 and STEEP18.

Tomorrow: (at the time of this report we are on STEEP01)

Online to STEEP01 weather looks good seas are calm tension is running high at 3800-4100 lbs so our speed is slower 3.0kts over ground this puts us to a 60 hour line. Hopefully we will move out of this current and be able to speed up.

**Daily Report for 20 Sept. 2008****1. STATISTICAL ANALYSIS (DECIMAL HOURS)****Line Charge Analysis****Sailed Km****09/20/2008**

Prime	149.500
Infill	0.0000
Reshoot	0.0000
Total:	149.500

**Time Activity Analysis****09/20/2008**

Recording	20.00
Line Change	0:45
Maneuvering	0:00
Weather	0:00

Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	3:15
Transit	0:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
Total: 24.00	

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	02:05	Continued line from previous day MSP 1237 EOL STEEP18 SP 1484
02:05	02:46	Maneuver for STEEP01
02:46	02:46	SOL STEEP01 FSP 1031
02:46	17:35	STEPP01 Compressor failure SP 2966
17:35	20:24	Compressor repairs
20:24	20:54	Air pressure returns ramp up guns
20:54	24:00	STEPP01 FSP 3448 continues to new day MSP 3956

### **UTC Midnight (24:00) Position / Heading:**

Pos 59 58.302 N  
143 10.808 W  
HDG: 67Deg  
SPEED: 4.0 Kts

### **Weather:**

Winds: 12 KTS  
Seas 3-9 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto



Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

Daily Summary:

Continued shooting STEEP01. Had 1 mammal mitigation a dolphin only shut down for 7 minutes. We also lost compressor twice today the first failure was for 21 minutes. Second failure was for long enough to stop recording the line but continued along STEEP01. We did hit a current for a few hours and were at 5.0KTS speed over ground.

Tomorrow:

Continue STEEP01 expect to complete line by 4:00 local and recover guns strings and streamer to begin deploying OBS instruments on STEEP02.

**Daily Report for 21 Sept. 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**09/21/2008**

Prime	190.500
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis**

**09/21/2008**

Recording	22.22
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	1.05
Streamer	0.38
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	0:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00

Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	00:00	MSP 3956
00:00	22:22	EOL STEEP01 LSP 7766
22:22	22:43	Prepare for Gun retrieval
22:43	23:27	guns recovered
23:27	24:00	Recover Streamer

### **UTC Midnight (24:00) Position / Heading:**

Pos 59 16.075 N  
 140 49.454 W  
 HDG: 132 Deg  
 SPEED: 4.0 Kts

### **Weather:**

Winds: calm  
 Seas 1-3 feet

**Comments:** Local time is UTC-8.

### **Science personnel currently on board:**

Tom Spoto  
 Jenny White  
 Robbie Gunn  
 Ryan Eaton  
 Mike Tatro  
 David Martinson (NCS SubSea)  
 5 MMO's  
 11 Science Party  
 Bern McKiernan  
 Michael Zang

### **Daily Summary:**

Continued STEEP01 weather was calm had some gun issues resolved air leak strings 3 and 4. Toward the end of the line MMO sighting required a shutdown. The marine mammal continued to stay in the area so we ended the line early and began the retrieval of the gun strings followed by the 8K streamer

Tomorrow:

Recover the remaining streamer and transit to the first OBS to begin recovering them.

## Daily Report for 22 Sept. 2008

### 1. STATISTICAL ANALYSIS (DECIMAL HOURS)

#### Line Charge Analysis

##### Sailed Km

**09/23/2008**

Prime	00.000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

#### Time Activity Analysis

**09/23/2008**

Recording	0.00
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	4:51
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	9:56
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS recovery	10:17
Total:	24.00

### 2. TIME SUMMARY

Start	End	Description / Comments
00:00	00:42	recovering streamer head float
00:42	00:52	recovery of stretch section
00:52	04:51	Tail buoy secured
04:51	06:37	Transit to OBS125 site
06:37	06:45	OBS release sent
06:45	06:51	OBS recovered
06:51	07:46	Transit to OBS124 site

07:46	07:54	OBS release sent
07:54	08:07	OBS recovered
08:07	09:14	Transit to site OBS123
09:14	09:16	OBS release sent
09:16	09:27	OBS recovered
09:27	10:25	Transit to OBS122 site
10:25	11:28	OBS release sent no response abandoned
11:28	12:21	Transit to OBS121 site
12:21	13:39	OBS release sent no response abandoned
13:39	14:38	Transit to OBS120 site
14:38	14:55	OBS release sent
14:55	15:06	OBS recovered
15:06	15:59	Transit to OBS 119 site
15:59	16:08	OBS release sent
16:08	16:17	OBS recovered
16:17	17:11	transit to OBS 118 site
17:11	17:20	OBS release sent
17:20	17:30	OBS recovered
17:30	18:25	Transit to OBS117 site
18:25	18:33	OBS release sent
18:33	18:39	OBS recovered
18:39	19:31	Transit to OBS116 site
19:31	19:38	OBS release sent
19:38	19:47	OBS recovered
19:47	20:46	Transit to OBS115 site
20:46	20:51	OBS release sent
20:51	21:02	OBS recovered
21:02	21:58	Transit to OBS114 site
21:58	22:05	OBS release sent
22:05	22:19	OBS recovered
22:19	23:19	transit to OBS113 site
23:19	23:23	OBS release sent
23:23	23:31	OBS recovered
23:31	24:00	Transit to OBS112 site

**UTC Midnight (24:00) Position / Heading:**

Pos 59 08.584 N

140 30.586

HDG: 132 Deg

SPEED: 10 KTS

**Weather:**

Winds: calm

Seas 1-3 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto

Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

Daily Summary:  
Perfect weather conditions for recovery of OBS  
Tomorrow:  
Recover remainder of OBS

### **Daily Report for 23 Sept. 2008**

#### **1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

##### **Line Charge Analysis**

###### **Sailed Km**

**09/23/2008**

Prime	00.000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

##### **Time Activity Analysis**

**09/23/2008**

Recording	0.00
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	18:00
Hydraulics	0:00
Source	0:00
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	6:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00

Work Boat Ops	0:00
Ship Traffic	0:00
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	00:32	Transit to OBS112 site
00:32	01:19	OBS112 release sent/abandoned
01:19	02:44	OBS112 radio signal received/recovered
02:44	03:13	Transit to OBS111 site
03:13	03:23	OBS Release sent
03:23	03:43	OBS111 recovered
03:43	04:38	Transit to OBS110 site
04:38	04:49	Release sent
04:49	05:04	OBS110 recovered
05:04	06:00	Transit to OBS109
06:00	06:08	Release sent
06:08	06:15	OBS109 recovered
06:15	07:06	Transit to OBS 108 site
07:06	08:33	Release sent abandoned
08:33	09:27	Transit to OBS 107
09:27	09:36	Release sent
09:36	09:44	OBS107 recovered
09:44	10:37	Transit to OBS106
10:37	10:45	Release sent
10:45	11:00	OBS106 recovered
11:00	11:49	Transit to OBS105
11:49	11:56	Release sent
11:56	12:11	OBS105 recovered
12:11	12:59	Transit to OBS104
12:59	13:15	Release sent
13:15	13:44	OBS104 recovered
13:44	14:28	Transit to OBS103
14:28	14:52	Release sent
14:52	15:17	OBS103 recovered
15:17	16:03	Transit to OBS102
16:03	16:53	OBS102 release sent/abandoned
16:53	17:35	Transit to OBS101
17:35	17:47	Release sent
17:47	17:56	OBS101 recovered
17:56	18:21	XBT Launch
18:21	24:00	Transit to STEEP02.

### **UTC Midnight (24:00) Position / Heading:**

Pos 59 08.584 N

140 30.586

HDG: 132 Deg

SPEED: 10 KTS

**Weather:**

Winds: calm  
Seas 1-3 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

**Daily Summary:**

Perfect weather conditions, Recovered remainder of OBS instruments total no recovery is

4. Transit to STEEP02.

Tomorrow:

Complete transit ETA to start of line is 2200 Local. Begin OBS for STEEP02

**Daily Report for 24 Sept. 2008****1. STATISTICAL ANALYSIS (DECIMAL HOURS)****Line Charge Analysis****Sailed Km****09/24/2008**

Prime	0.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis****09/24/2008**

Recording	0.00
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00

Transit	5:56
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS deployment`	18:04
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	05:56	Transit to STEEP02
05:56	05:57	OBS218 deployed
05:57	06:16	XBT Launch
06:15	07:01	Transit to OBS217
07:01	07:02	OBS217 deployed
07:02	07:53	Transit to OBS216
07:53	07:54	OBS216 deployed
07:54	08:50	Transit to OBS215
08:50	08:51	OBS215 deployed
08:51	09:49	Transit to OBS214
09:49	09:50	OBS214 Deployed
09:50	10:46	Transit to OBS213
10:46	10:47	OBS213 deployed
10:47	11:42	Transit to OBS212
11:42	11:43	OBS212 deployed
11:43	12:45	Transit to OBS211
12:45	12:46	OBS211 deployed
12:46	14:20	transit to OBS210
14:20	14:21	OBS210 deployed
14:21	15:22	Transit to OBS209
15:22	15:23	OBS209 deployed
15:23	16:17	Transit to OBS208
16:17	16:18	OBS208 deployed
16:18	17:14	Transit to OBS207
17:14	17:15	OBS207 deployed
17:15	18:23	Transit to OBS206
18:23	18:24	OBS206 deployed
18:24	19:20	Transit to OBS205
19:20	19:21	OBS205 deployed
19:21	20:15	Transit to OBS204
20:15	20:16	OBS204 deployed
20:16	20:21	Launch XBT
20:21	21:33	Transit to OBS203
21:33	21:34	OBS203 deployed
21:34	22:26	Transit to OBS202



22:26	22:27	OBS202 deployed
22:27	23:35	Awaiting pilot
23:35	24:00	Transit to OBS201

**UTC Midnight (24:00) Position / Heading:**

Pos 58 59.570 N

142 45.779 W

HDG: 174 Deg

SPEED: 10 KTS

**Weather:**

Winds: calm

Seas 1-3 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto

Jenny White

Robbie Gunn

Ryan Eaton

Mike Tatro

David Martinson (NCS SubSea)

5 MMO's

11 Science Party

Bern McKiernan

Michael Zang

**Daily Summary:**

Perfect weather conditions, Transit and launched OBS for STEEP02 await pilot in Yakutat bay. Sill is 22 meters depth outside our spec of min 25 meters for streamer towing.

Tomorrow: Deploy guns and shoot going out the bay.

**Daily Report for 25Sept. 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**09/25/2008**

Prime 171.3000

Infill 0.0000

Reshoot 0.0000

Total: 171.3000

**Time Activity Analysis**

**09/25/2008**

Recording	19.51
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	3:07
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	0:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS deployment	1:02
Total: 24.00	

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	01:02	Transit to OBS201site
01:02	01:03	OBS201 Deployed
01:03	03:29	Guns deployed
03:29	04:10	Ramp-up complete
04:10	04:10	Pam deployed
04:10	05:12	transit to STEEP02
05:12	07:18	SOL for STEEP02 FSP 1001
07:18	24:00	Shooting STEEP02 into new day MSP2143

### **UTC Midnight (24:00) Position / Heading:**

Pos 59 38.852 N  
139 53.029 W  
HDG: 223 Deg  
SPEED: 5 KTS

### **Weather:**

Winds: calm  
Seas 1-3 feet

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

Daily Summary:

Perfect weather conditions, Picked up Pilot deployed last OBS201 deployed the guns in the bay and began shooting the STEEP02 OBS line.

Tomorrow: Continue STEEP02 OBS line and recover guns for the OBS recovery. ETA to end of line is 0100 26 September local time.

**Daily Report for 26Sept. 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**09/26/2008**

Prime	83.5000
Infill	0.0000
Reshoot	0.0000
Total:	83.5000

**Time Activity Analysis**

**09/26/2008**

Recording	9.07
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	1:32
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	0:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00

Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS recovery	13.20
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	00:00	Continue STEEP02 new day MSP2143
00:00	09:07	EOL of STEEP02 LSP 2700
09:07	10:49	Gun recovery
10:49	11:38	Transit to OBS218 site
11:38	13:09	Release sent
13:09	13:31	OBS218 recovered
13:31	14:40	transit to OBS217
14:40	16:08	Release sent
16:08	16:19	OBS217 recovered
16:19	17:20	transit to OBS216
17:20	18:30	release sent
18:30	18:31	OBS216 recovered
18:31	19:33	transit to OBS215
19:33	21:03	Release sent
21:03	21:16	OBS215 recovered
21:16	22:23	transit to OBS214
22:23	24:00	Release sent

UTC Midnight (24:00) Position / Heading:

Pos 558 38.35285 N

141 41.49967 W

HDG: 217 Deg

SPEED: 5 KTS

### **Weather:**

Winds: 20 KTS

Seas 9-12 ft

**Comments:** Local time is UTC-8.

### **Science personnel currently on board:**

Tom Spoto

Jenny White

Robbie Gunn

Ryan Eaton

Mike Tatro

David Martinson (NCS SubSea)

5 MMO's

11 Science Party

Bern McKiernan  
Michael Zang

Daily Summary:

Weather forecast has increased wind speed and seas. Completed STEEP02 OBS line and began the recovery of instruments.

Tomorrow:

Continue OBS recovery

**Daily Report for 27Sept. 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**09/27/2008**

Prime	00.000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis**

**09/27/2008**

Recording	0.00
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	0:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS recovery	24:00
Total:	24.00

**2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	00:44	Release OBS214 sent/abandoned
00:44	01:44	Transit to OBS 213 site
01:44	03:02	release sent
03:02	03:22	OBS 213 recovered
03:22	04:24	transit to OBS212 site
04:24	05:37	release sent
05:37	05:48	OBS212 recovered
05:48	06:51	transit to OBS211 site
06:51	08:32	release sent
08:32	08:57	OBS211 recovered
08:57	09:59	transit to OBS210
09:59	10:42	release sent
10:42	10:52	OBS210 recovered
10:52	11:54	transit to OBS 209
11:54	12:12	release sent
12:12	12:27	OBS209 recovered
12:27	13:43	transit to OBS208
13:43	13:46	release sent
13:46	13:56	OBS208 recovered
13:56	14:57	transit to OBS207
14:57	15:05	release sent
15:05	15:13	OBS207 recovered
15:13	16:11	transit to OBS206 site
16:11	16:24	release sent
16:24	16:30	OBS206 recovered
16:30	17:28	transit to OBS205 site
17:28	17:40	release sent
17:40	17:49	OBS205 recovered
17:49	18:46	transit to OBS204
18:46	19:02	OBS204 recovered
19:02	20:15	transit to OBS203
20:15	20:22	release sent
20:22	20:34	OBS203 recovered
20:34	21:46	transit to pilot pickup
23:00	23:20	GYRO Simrad failure/back online
23:20	23:42	Pilot onboard W/ Robert Steinhaus
23:42	24:00	transit to OBS202

UTC Midnight (24:00) Position / Heading:

Pos 59 35.49733 N

139 50.33770 W

HDG: .88Deg

SPEED: 5 KTS

**Weather:**

Winds: 8 KTS  
Seas 1-3 ft

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Robert Steinhaus  
Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

**Daily Summary:**

Weather was a factor as we recovered OBS instruments but it calm down as the day wore on. Rescue boat had engine failure at pier and was required to be towed back to the vessel. No working FRC or work boat available for emergency situation.

**Tomorrow:**

Continue OBS recovery of OBS202 and OBS201. Conduct pre-survey of MCS line and deploy streamer outside Yakutat bay.

**Daily Report for 28Sept. 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**09/28/2008**

Prime	00.000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis**

**09/28/2008**

Recording	0.00
Line Change	0:00
Maneuvering	2:05
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	3:06

Streamer	12.26
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	4:05
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS recovery	2:40
Total: 24.00	

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	01:00	transit to OBS202
01:00	01:05	release sent
01:05	01:17	OBS202 recovered
01:17	02:30	transit to OBS201
02:30	02:37	release sent
02:37	02:40	OBS201 recovered
02:40	06:45	Maneuver for reverse track survey
06:45	06:59	Tail buoy deployed
06:59	19:11	Streamer deployment complete
19:11	22:17	Full source array deployed
22:17	22:41	Maggie deployed
22:41	22:52	PAM deployed
22:52	24:00	Transit to SOL of STEEP02 MCS.

UTC Midnight (24:00) Position / Heading:

Pos 59 35.49733 N

139 50.33770 W

HDG: .88Deg

SPEED: 5 KTS

### **Weather:**

Winds: 8 KTS

Seas 1-3 ft

**Comments:** Local time is UTC-8.

### **Science personnel currently on board:**

Robert Steinhaus

Tom Spoto

Jenny White



Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

Daily Summary:

Surveyed area prior to Streamer deployment. Once outside of Yakutat Bay, we commenced the Streamer deployment. Due to an unusual amount of problems with telemetry and powering of the streamer it took longer than anticipated to deploy the streamer. We did complete the deployment and moved all gear another 50 meters further deployed to get the lead in better placed to avoid the gun strings.

Tomorrow:

Begin shooting STEEP02 out of Yakutat bay

**Daily Report for 29Sept. 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**09/29/2008**

Prime	188.0000
Infill	0.0000
Reshoot	0.0000
Total:	188.0000

**Time Activity Analysis**

**09/29/2008**

Recording	22.30
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:30
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	1:00
Mobilization	0.00
Streamer Control	0:00

Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	01:36	Transit and ramp up to SOL STEEP02
01:36	24:00	SOL STEEP02 FSP 960 MSP4720

UTC Midnight (24:00) Position / Heading:

Position

59 42.99644 N

139 78.85001 W

HDG: 82.09Deg

SPEED: 5 KTS

### **Weather:**

Winds: 8 KTS

Seas 1-3 ft

**Comments:** Local time is UTC-8.

### **Science personnel currently on board:**

Robert Steinhaus

Tom Spoto

Jenny White

Robbie Gunn

Ryan Eaton

Mike Tatro

David Martinson (NCS SubSea)

5 MMO's

11 Science Party

Bern McKiernan

Michael Zang

### **Daily Summary:**

Perfect conditions for survey of Yakutat bay, seas calm no problem at any point in the survey of the bay. Pilot disembarked with no problems. We had a compressor failure but only for a few minutes. Another power down for a MMO sighting.

.

Tomorrow:

Continue shooting STEEP02 then make turn to STEEP11

## **Daily Report for 30 Sept. 2008**

### **1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

#### **Line Charge Analysis**

##### **Sailed Km**

**09/30/2008**

Prime	200.7500
Infill	0.0000
Reshoot	0.0000
Total:	200.7500

#### **Time Activity Analysis**

**09/30/2008**

Recording	24.00
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0.00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	0:00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
Total:	24.00

### **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	02:41	EOL STEEP02 LSP5152
02:41	02:42	SOL STEEP11 FSP 365
02:42	24:00	Continue STEEP11 new day MSP 3948

UTC Midnight (24:00) Position / Heading:

Position  
59 42.99644 N  
139 78.85001 W  
HDG: 82.09Deg  
SPEED: 5 KTS

**Weather:**

Winds: 8 KTS  
Seas 1-3 ft

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Robert Steinhaus  
Tom Spoto  
Jenny White  
Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

Daily Summary:

Finished STEEP02 blended right into STEEP11.

Tomorrow:

Go as far as time allows for STEEP11 then end line to recover towed gear and make way to abandoned OBS instruments.

**Daily Report for 01 October 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**10/01/2008**

Prime	0.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis**

**10/01/2008**

Recording	1.55
Line Change	0:00
Maneuvering	0:00
Weather	0:00

Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	1.13
Streamer	3.57
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	15:50
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS recovery	1.05
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	01:55	EOL STEEP11 LSP 4305
01:55	03:08	Gun recovery
03:08	03:44	Head float recovery
03:44	04:11	Remove head stretch
04:11	07:05	Tail buoy onboard
07:05	17:46	Transit to OBS214 site
17:46	18:51	Abandoned OBS214
18:51	24:00	Transit to OBS121 site

UTC Midnight (24:00) Position / Heading:

Position

59 27.3991 N

144 21.64507 W

HDG: 316Deg

SPEED: 4.31KTS

### **Weather:**

Winds: 8 KTS

Seas 1-3 ft

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Robert Steinhaus

Tom Spoto

Jenny White

Robbie Gunn  
Ryan Eaton  
Mike Tatro  
David Martinson (NCS SubSea)  
5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

Daily Summary:

Completed STEEP11 recovered all gear and transited to abandoned OBS site in hopes of recovery.

Tomorrow:

Transit to other abandoned OBS sites then to Astoria

**Daily Report for 02 October 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**10/02/2008**

Prime	0.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

**Time Activity Analysis**

**10/02/2008**

Recording	0:00
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	19.40
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00

Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS recovery	4.20
Total:	24.00

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	11:40	Transit to OBS121
11:40	14:55	Abandon OBS121
14:55	15:43	Transit to OBS122 site
15:43	16:00	OBS122 recovered
16:00	24:00	transit to Astoria

UTC Midnight (24:00) Position / Heading:

Position

59 19.17234 N

141 35.29138 W

HDG: 12 Deg

SPEED: 10.88KTS

### **Weather:**

Winds: 8 KTS

Seas 1-3 ft

**Comments:** Local time is UTC-8.

### **Science personnel currently on board:**

Robert Steinhaus

Tom Spoto

Jenny White

Robbie Gunn

Ryan Eaton

Mike Tatro

David Martinson (NCS SubSea)

5 MMO's

11 Science Party

Bern McKiernan

Michael Zang

Daily Summary:

Transit to other abandoned OBS recovered 1 OBS sites then to Astoria

Tomorrow:

Transit to Astoria secure and process paper work for off going shipments

## **Daily Report for 03 October 2008**

### **1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

#### **Line Charge Analysis**

##### **Sailed Km**

**10/03/2008**

Prime	0.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

#### **Time Activity Analysis**

**10/03/2008**

Recording	0:00
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	24.00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS recovery	0.00
Total:	24.00

### **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	24:00	Transit to Astoria



UTC Midnight (24:00) Position / Heading:

Position

57 22.854 N

137 49.912 W

HDG: Deg

SPEED: 10.88KTS

**Weather:**

Winds: 8 KTS

Seas 1-3 ft

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Robert Steinhaus

Tom Spoto

Jenny White

Robbie Gunn

Ryan Eaton

Mike Tatro

David Martinson (NCS SubSea)

5 MMO's

11 Science Party

Bern McKiernan

Michael Zang

Daily Summary:

Transit to Astoria

Tomorrow:

Transit to Astoria

**Daily Report for 04 October 2008**

**1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

**Line Charge Analysis**

Sailed Km

**10/04/2008**

Prime 0.0000

Infill 0.0000

Reshoot 0.0000

Total: 0.0000

**Time Activity Analysis**

**10/04/2008**

Recording 0:00

Line Change 0:00

Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	24.00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS recovery	0.00
Total: 24.00	

## **2. TIME SUMMARY**

<b>Start</b>	<b>End</b>	<b>Description / Comments</b>
00:00	24:00	Transit to Astoria

UTC Midnight (24:00) Position / Heading:

Position

54 03.803 N

134 29.906 W

HDG: 140 Deg

SPEED: 9.88KTS

### **Weather:**

Winds: 8 KTS

Seas 1-3 ft

**Comments:** Local time is UTC-8.

### **Science personnel currently on board:**

Robert Steinhaus

Tom Spoto

Jenny White

Robbie Gunn

Ryan Eaton

Mike Tatro

David Martinson (NCS SubSea)

5 MMO's  
11 Science Party  
Bern McKiernan  
Michael Zang

Daily Summary:

Transit to Astoria. Pack items to be shipped. General clean up

Tomorrow:

Transit to Astoria Work on Squawk boxes for the streamer deck and gun slip

## **Daily Report for 05 October 2008**

### **1. STATISTICAL ANALYSIS (DECIMAL HOURS)**

#### **Line Charge Analysis**

Sailed Km

**10/05/2008**

Prime	0.0000
Infill	0.0000
Reshoot	0.0000
Total:	0.0000

#### **Time Activity Analysis**

**10/05/2008**

Recording	0:00
Line Change	0:00
Maneuvering	0:00
Weather	0:00
Fishing Interference	0:00
Instrument	0:00
Hydraulics	0:00
Source	0:00
Streamer	0:00
In-Sea Positioning	0:00
Ship	0:00
Seismic Air Compressor	0:00
Transit	24.00
Mobilization	0.00
Streamer Control	0:00
Cetaceans - PAM	0:00
Streamer Damage	0.00
Debris/Flotsam	0.00
Port Call	0:00
Medical/EVAC Transfer	0:00
Work Boat Ops	0:00
Ship Traffic	0:00
OBS recovery	0.00
Total:	24.00

### **2. TIME SUMMARY**

Start	End	Description / Comments
00:00	24:00	Transit to Astoria

UTC Midnight (24:00) Position / Heading:

Position

50 52.3357 N

130 06.62158 W

HDG: 138 Deg

SPEED: 10.9 KTS

**Weather:**

Winds: 8 KTS

Seas 1-3 ft

**Comments:** Local time is UTC-8.

**Science personnel currently on board:**

Robert Steinhaus

Tom Spoto

Jenny White

Robbie Gunn

Ryan Eaton

Mike Tatro

David Martinson (NCS SubSea)

5 MMO's

11 Science Party

Bern McKiernan

Michael Zang

Daily Summary:

Transit to Astoria. Install squawk boxes.

Tomorrow:

Arrive in Astoria

# RV Langseth Data Reduction Summary

## MGL0814

Astoria, OR-Eastern Gulf, Alaska

10/06/2008

Lamont-Doherty Earth Observatory,  
Columbia University

**Monday, October 06, 2008**

Date	Julian Date	Time	Port
2008-09-10	2008-254	1204 L, 1804 UTC	Astoria, OR
2008-10-06	2008-280	0900 L, 1400 UTC	Astoria, OR

Sean Gulick  
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University of Texas at Austin  
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Gail Christeson  
Co-Chief Scientist  
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## 1. Background and Scientific Objectives

This is a multi-disciplinary study to address the evolution of the highest coastal mountain range on Earth - the St. Elias Mountains of southern Alaska and northwestern Canada. This orogen has developed over the past few million years as the Yakutat block, a continental-oceanic terrane, has attempted subduction beneath the eastern end of the Aleutian arc-trench system. The ~500 km-long, 150 km-wide St. Elias mountain range is the product of the dynamic balance between rapid uplift induced by crustal convergence and rapid exhumation by a regional system of large, fast-moving temperate glaciers. Most sediments are deposited either on a broad shelf or in deepsea fans and provide a complete record of the tectonic, climatic, erosional, and eustatic events that have accompanied the orogeny. The overarching goal of the project is to develop a comprehensive model for the St. Elias orogen that accounts for the interaction of regional plate tectonic processes, structural development, and rapid erosion. The focus of the study is on the partitioning of deformation within the system from upper mantle flow to near-surface faulting and exhumation. The study will investigate the geodynamics of oblique collision under a set of conditions that will allow the PIs to address several important and fundamental questions:

1. Has intense Quaternary glacial erosion redistributed mass in the orogen sufficiently to change regional deformational patterns, and has focused erosion along deep glacial valleys been sufficient to localize crustal strains?
2. How is deformation partitioned into lithospheric shortening and uplift versus lateral extrusion of the detached crust, and does intense erosion influence this partitioning?
3. Is the orogeny driven primarily by subduction of a buoyant oceanic plateau or by collision of a small microcontinental block attached to allochthonous ocean crust?

Addressing these questions has broad implications for understanding the geodynamics of oblique collision in general, the role of different mechanisms in development of far-field orogenic effects, and the control of erosion on development of slip partitioning during oblique convergence. The project also has general implications for how subduction/accretion of small continental terranes versus oceanic plateaus contribute to deformation of the continents, and ultimately the fate of these fragments in construction of the crustal collage which is typical of virtually all continents. Specifically, the P.I.s propose a multidisciplinary approach involving seismologists (subsurface imaging and seismicity), geologists, geodesists, glaciologists, geochronologists, and geodynamic modelers.

### Marine Seismic Objectives

The primary objectives for the marine seismic portion of STEEP include are threefold: 1) to image the offshore primary faults within and on the boundaries of the Yakutat Block, 2) to measure the velocity and thickness of the Yakutat crust, and 3) to image the sedimentary cover on the Yakutat Shelf and the sediments that make up the proximal part of the Surveyor Fan. The seismic reflection part of the experiment seeks to accomplish goals #1 and #3, while the seismic refraction component seeks to accomplish goal #2.

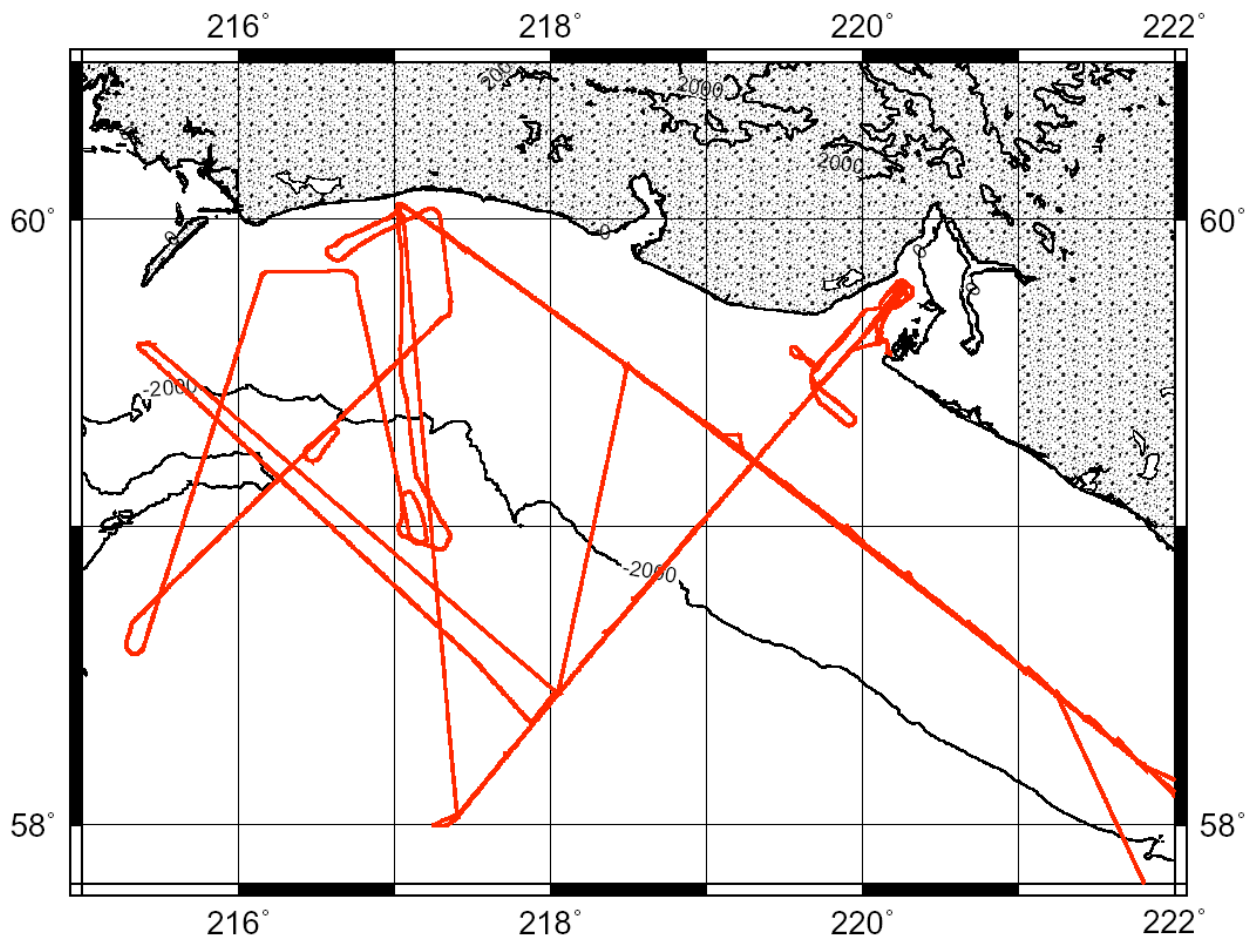


Faults that are targeted by the offshore component of STEEP include: the Dangerous River Zone, the Pamplona Zone, the Khitrov Fault Zone, the Pacific Shear Zone, the Transition Fault, and the Kayak Island Fault Zone. For each of these faults we seek to map their location, type of deformation, and history of deformation in order to examine the tectonic response of the Yakutat Block and adjacent Pacific Plate to flat slab subduction.

The type and thickness of the Yakutat Block is unknown and yet this basic data are key to understanding the tectonic evolution of the margin. The Ocean Bottom Seismometer (OBS) transects (STEOP01 and STEOP02) are designed specifically to accomplish this goal by determining depth to Yakutat basement and moho and velocity structure of the crust.

The stratigraphic goals of the reflection data are to map key glacial erosion surfaces on the shelf that can be later dated by scientific ocean drilling and to map the sequences within the Surveyor Fan to track mass flux from the orogen. This stratigraphy can later be dated through ties with existing industry wells and hopefully future IODP drilling.

## 2. Racetrack Drawing



GM 2008 Oct 3 02:35:38 MGL0814 Alaska Gulf

### 3. Crew List

#### Science Party

1	Sean Gulick	Chief Scientist	University of Texas at Austin
2	Gail Christeson	Co-Chief Scientist	University of Texas at Austin
3	Beatrice Magnani	PI in Training	University of Memphis
4	Ben Hooks	Scientist Graduate Student	University of Texas at Austin
5	Adam Barker	Scientist Graduate Student	University of Texas at Austin
6	Bobby Reece	Scientist Graduate Student	University of Texas at Austin
7	Lindsay Worthington	Scientist Graduate Student	University of Texas at Austin
8	Seth Campbell	Scientist Graduate Student	University of Texas at Austin
9	Ryan Elmore	Scientist Graduate Student	University of Texas at Austin
10	John Gerboc	OBS/Sys Admin	UTIG
11	Anatoly Miranov	OBS Tech	UTIG

#### Shipboard Technical Staff

1	Robert Steinhaus	Technician-in-charge
2	Bern McKiernan	Watch Leader/Acq Watch Leader
3	Michael Zhang	IT-in-charge
4	David M. Martinson	Navigation-in-charge
5	Thomas Spoto	Chief Sound Source
6	Michael Tatro	Acquisition Watch Leader
7	Robert Gunn	Sound Source Watch Leader
8	Ryan Eaton	IT/Nav Watch Stander
9	Jenny White	Sound Source Watch Stander
10	Meike Holst	MMO, Lead Observer
11	Claudio Fossati	MMO, Lead PAM Observer
12	John Nicholas	MMO, Observer
13	Bradley Dawe	MMO, Observer
14	Brendan Hurley	MMO, Observer

**Ship's Crew**

1	Jim O'loughlin	Master
2	Matthew Bakis	Chief Mate
3	Chris Zimmerman	2 <sup>nd</sup> Mate
4	Nicholas Gasper	3 <sup>rd</sup> Mate
5	Sal Oboza	Bosun
6	Inocencio Rimando	AB
7	George Cerano	AB
8	Ping Paragas	AB
9	Jeromie Webster	OS
10	Nicky Applewhite	OS
11	Al Karlyn	Chief Engineer
12	Matthew Tucke	1 <sup>st</sup> Asst. Engineer
13	Thomas DeWhirst	2 <sup>nd</sup> Asst. Engineer
14	Ryan Vetting	3 <sup>rd</sup> Asst. Engineer
15	Jack Schwartz	Electrician
16	Fernando Uribe	Oiler
17	Rudolfo Florendo	Oiler
18	Travis Green	Oiler
19	Hervin Fuller	Steward
20	Ricky Rios	Cook

## 4. Instrumentation Summary

All instruments aboard the Langseth are listed in the science\_sensors spreadsheet in the docs section of the cruise archive. Summary notes on operation during this cruise are listed below. Instruments not listed were not in operation.

### Instrument Data Files

Instrument	Description	Data Set	Interval	Data Output
FE700	Furuno FE700 Echosounder	Full	1s	serial logs
EM120	Kongsberg EM120 Multibeam Sonar	Full	Variable	raw output to file centerbeam to serial logs
DS50	Furuno DS50 Doppler Speedlog	Full	1s	serial logs
XBT	Sippican MK21 XBT Launcher		Variable	raw output to file converted output to file
WX1	RM Young 5103 Weather Bird and Translator	Full	1s	serial logs
TSG	SeaBird SBE23 Thermosalinograph	Full	1s	serial logs
CNAV	C&C Tech. CNAV DGPS Receiver	Full	1s	serial logs
MAG01	GeoMetrics 882 Magnetometer	Full	1s	serial logs
BGM	Bell Aerospace BGM-3 Gravimeter	Full	1s	serial logs
GYRO	Simrad GC80 Gyrocompass/AD100	Full	1s	serial logs
POSMV	Applanix POSMV Integrated Nav System	Full	1s	serial logs
SEAPATH	Kongsberg SeaPath Integrated Nav System	Full	1s	serial logs
Event Logger	Spectrum Instruments intelligent reference TM-4	Full	shot	serial logs

All timestamps in this report are presented using UTC time and day of year in order to avoid confusion with local time changes.

### Science Navigation Instrumentation

#### FE700

**Logging interval:** 1 second

**File id:** bath01

The FE700 only operated to 800m depth. The echosounder is normally switched off before the unit goes out of depth. The unit was operational during the entire cruise.

*Interruptions greater than twenty seconds are displayed in the following table.*

Log Date	Interruption	Comment
2008:254:19:22:42.0000		Logging officially started
2008:255:01:58:13.2433 -- 2008:255:15:29:33.5681	System check	Reason unrecorded
2008:255:15:30:29.2424 -- 2008:255:15:40:05.4157	Missing data	System check
2008:255:15:40:08.3520 -- 2008:255:15:41:20.9923	Missing data	System check
2008:255:15:41:32.6957 -- 2008:255:16:03:20.1747	Missing data	System check
2008:255:16:03:24.0494 -- 2008:255:20:08:20.7794	Missing data	System check
2008:255:20:15:52.2840 -- 2008:255:20:19:26.6377	Missing data	Reason unrecorded
2008:255:20:19:47.0292 -- 2008:255:20:34:11.7351	Missing data	Reason unrecorded
2008:255:20:39:35.0704 -- 2008:257:03:47:15.3511	Missing data	Reason unrecorded
2008:257:03:47:47.3699 -- 2008:257:19:30:42.4358	Missing data	Reason unrecorded
2008:258:05:16:59.1934 -- 2008:258:10:46:23.1652	Missing data	Reason unrecorded
2008:260:00:01:13.5931 -- 2008:261:02:26:39.8589	Missing data	Reason unrecorded
2008:261:13:51:55.4745 -- 2008:263:05:49:26.5437	Missing data	Reason unrecorded
2008:263:05:57:44.5878 -- 2008:263:06:36:11.8100	Missing data	Reason unrecorded
2008:263:06:36:49.2089 -- 2008:263:10:38:43.0118	Missing data	Reason unrecorded
2008:267:21:43:37.1814 -- 2008:267:21:44:37.1260	Missing data	Reason unrecorded
2008:267:21:45:33.4880 -- 2008:268:01:03:44.8452	Missing data	Reason unrecorded
2008:268:01:04:10.9167 -- 2008:268:05:56:20.6105	Missing data	Reason unrecorded
2008:268:05:57:13.6108 -- 2008:268:15:39:06.7149	Missing data	Reason unrecorded
2008:269:18:44:22.1176 -- 2008:270:11:08:01.3731	Missing data	Reason unrecorded
2008:270:11:08:34.7458 -- 2008:271:02:16:40.0765	Missing data	Reason unrecorded
2008:271:02:17:04.1472 -- 2008:271:11:56:17.4524	Missing data	Reason unrecorded
2008:273:16:15:23.2243 -- 2008:274:19:16:58.5714	Missing data	Reason unrecorded
2008:274:19:17:20.9734 -- 2008:274:19:28:35.8945	Missing data	Reason unrecorded
2008:275:07:39:26.8366 -- 2008:275:22:44:34.5854	Missing data	Reason unrecorded
2008:280:07:00:00.1900		Logging officially ended

Bath01 data format:

bath01	2008:220:13:45:42.0681	\$SDDBT, , , , , ,
bath01	2008:220:13:45:42.0690	\$SDDBS, , , , , ,
bath01	2008:220:13:45:42.0691	\$SDDPT, , 0006.6*49
bath01	2008:220:13:45:42.1482	\$PFEC, Alarm, 0, 0*6F
bath01	2008:220:13:45:42.1483	\$PFEC, xdr, FORE, 050*79

## EM-120

**Logging interval:** variable with water depth

**File id:** bath02

The EM120 multibeam sonar was operated throughout the cruise. The system is designed for deeper water, and does not track ground well in less than 50m of water.

*Interruptions greater than sixty seconds are displayed in the following table.*

Log Date	Interruption	Comment
2008:254:19:22:42.6166		Logging officially started
2008:259:11:29:17.8812 -- 2008:259:11:41:39.3392	Missing data	Reason unrecorded
2008:259:13:07:23.2444 -- 2008:259:15:23:10.6033	Missing data	Reason unrecorded
2008:266:06:34:45.9065 -- 2008:267:18:14:50.1317	Missing data	Reason unrecorded
2008:270:18:23:35.0946 -- 2008:272:02:44:12.8402	Missing data	Shutdown logging for retrieving OBS
2008:273:08:59:06.2732 -- 2008:273:09:06:11.4421	Missing data	Reset parameter
2008:273:09:06:21.6474 -- 2008:273:09:11:51.1222	Missing data	Reset parameter
2008:273:09:19:42.0169 -- 2008:273:09:26:56.4737	Missing data	Reset parameter
2008:273:09:27:10.6766 -- 2008:273:09:31:46.3440	Missing data	Reset parameter
2008:273:09:43:42.7177 -- 2008:273:09:46:42.5313	Missing data	Reset parameter
2008:273:09:48:47.2988 -- 2008:273:09:52:30.8710	Missing data	Reboot software
2008:280:07:00:00.0602		Logging officially ended

## Bath02 data format

bath02	2008:192:00:00:12.6663	\$KGDPT, 2938.25, 0.0, 12000.0*4a
bath02	2008:192:00:00:30.3301	\$KGDPT, 2954.08, 0.0, 12000.0*4f
bath02	2008:192:00:00:46.5831	\$KGDPT, 2958.32, 0.0, 12000.0*4a
bath02	2008:192:00:01:03.0606	\$KGDPT, 2954.18, 0.0, 12000.0*4e

## DS50 Speedlog

**Logging interval:** 1 second

**File id:** slog01

The Furuno DS-50 is a Doppler speed log. It was in operation for the length of the cruise.

*Interruptions greater than ten seconds are displayed in the following table.*

Log Date	Interruption	Comment
2008:254:16:24:14.8667		Logging officially started
2008:254:16:52:24.9853 -- 2008:254:16:54:43.8497	Missing data	Reason unrecorded
2008:254:17:37:07.6776 -- 2008:254:17:37:32.4002	Missing data	Reason unrecorded
2008:256:16:18:52.0590 -- 2008:256:16:20:23.8647	Missing data	Reason unrecorded
2008:280:07:00:21.8285		Logging officially ended

Slog01 data format:

slog01	2008:231:00:00:00.0744	\$VDVHW,,T,,M,09.68,N,17.93,K*4C
slog01	2008:231:00:00:00.1906	\$VDVBW,009.68,000.09,A,009.68,000.09,V*46
slog01	2008:231:00:00:00.1908	\$VDVLW,0005960.30,N,0005960.30,N*5F

## RMYoung Weather Station

**Logging interval:** 1 second

**File id:** mwv01

The weather station is used to log wind speed, direction, air temperature, and barometric pressure. The unit was functioning during the cruise.

*Interruptions greater than ten seconds are displayed in the following table.*

Log Date	Interruption	Comment
2008:254:16:52:26.8128		Logging officially started
2008:254:19:38:34.2379 -- 2008:254:19:42:08.2386	Missing data	Reason unrecorded
2008:255:15:29:31.3816 -- 2008:255:15:40:09.4053	Missing data	System check
2008:255:15:41:17.4066 -- 2008:255:15:41:33.4070	Missing data	System check
2008:255:20:08:17.6618 -- 2008:255:20:15:52.6668	Missing data	System check
2008:255:20:19:22.6710 -- 2008:255:20:19:47.6704	Missing data	System check
2008:255:20:34:08.6840 -- 2008:255:20:39:35.6902	Missing data	System check
2008:259:05:50:35.5015 -- 2008:259:05:50:48.5801	Missing data	Reason unrecorded
2008:262:20:16:36.1989 -- 2008:262:20:19:02.5186	Missing data	Reason unrecorded
2008:262:20:23:12.1352 -- 2008:262:21:16:15.7032		
2008:280:07:00:08.5292		Logging officially ended

Mwv01 data format:



mwv01 2008:231:00:00:00.5173 ***** 8 8 8 1009.7	6.1 6.6 6.6 8.8 354 321 5 0.0 0.0 0.0 0.0 355 355 0 *****
mwv01 2008:231:00:00:01.5172 ***** 8 8 8 1009.6	5.9 6.6 6.6 8.8 353 321 5 0.0 0.0 0.0 0.0 355 355 0 *****
mwv01 2008:231:00:00:02.5190 ***** 8 8 8 1009.8	6.3 6.6 6.6 8.8 354 321 5 0.0 0.0 0.0 0.0 355 355 0 *****

## CNAV

**Logging interval:** 1 second

**File id:** cnav

The C-NAV is a global satellite-based differential receiver. This is the best individual receiver currently on the ship. This system was operational during the cruise.

*Interruptions greater than ten seconds are displayed in the following table.*

Log Date	Interruption	Comment
2008:254:16:52:26.8128		Logging officially started
2008:255:14:59:54.7169 -- 2008:255:15:01:33.6932	Missing data	System check
2008:255:15:07:21.7462 -- 2008:255:15:08:06.7460	Missing data	System check
2008:255:15:35:47.8210 -- 2008:255:15:37:52.6924	Missing data	System check
2008:255:15:51:58.6879 -- 2008:255:16:03:17.1983	Missing data	System check
2008:259:03:43:11.7275 -- 2008:259:03:43:24.6600	Missing data	Reason unrecorded
2008:259:18:59:37.4307 -- 2008:259:18:59:47.6985	Missing data	Reason unrecorded
2008:280:07:00:03.7162		Logging officially ended

## Cnav data format:

cnav 2008:231:00:00:00.6936 \$GPGGA,000000.00,1434.94372,N,10444.85748,W,2,8,1.1,15.52,M,-20.60,M,9,0108*65
cnav 2008:231:00:00:00.7137 \$GPVTG,006.5,T,,M,9.64,N,17.85,K*53

## GGC80 Gyrocompass

**Logging interval:** 1 second

**File id:** gy01

The GC80 gyrocompass operated normally.

*Interruptions greater than ten seconds are displayed in the following table.*

Log Date	Interruption	Comment
2008:254:16:52:26.8128		Logging officially started
2008:255:15:31:29.9893 -- 2008:255:15:32:25.9796	Missing data	System check
2008:255:15:34:33.9528 -- 2008:255:15:39:20.6656	Missing data	System check
2008:272:00:15:00.6315 -- 2008:272:00:16:11.4551	Missing data	Reason unrecorded
2008:272:00:18:44.8328 -- 2008:272:00:23:32.6125	Missing data	Reason unrecorded
2008:280:07:00:06.4515		Logging officially ended

Gy01 data format:

gy01	2008:231:00:00:00.4110	\$PTKM,HEALM,0000,0,G1*09
gy01	2008:231:00:00:00.6395	\$HEHDT,005.8,T*22
gy01	2008:231:00:00:00.6396	\$HEROT,-005.25,A*34
gy01	2008:231:00:00:01.6394	\$HEHDT,005.7,T*2D
gy01	2008:231:00:00:01.6395	\$HEROT,-004.53,A*34

## POSMV Integrated Nav

**Logging interval:** 1 second

**File id:** posmv

The POS/MV is a receiver that uses CNAV input in addition to its own antennae, an inertial sensor and optional RTG, WTC, or WAAS corrections and a Kalman filter to produce a smooth navigation output and very accurate heading. The PosMV operated normally during the cruise.

*Interruptions greater than ten seconds are displayed in the following table.*

Log Date	Interruption	Comment
2008:254:16:00:26.8128		Logging officially started
2008:255:15:17:56.1109 -- 2008:255:15:19:15.7347	Missing data	System check
2008:255:15:35:35.7162 -- 2008:255:15:38:28.7109	Missing data	System check
2008:255:15:43:37.0765 -- 2008:255:15:44:52.7007	Missing data	System check
2008:280:07:00:16.1359		Logging officially ended

Posmv data format:

posmv	2008:231:00:00:00.0885	\$INGGA,235959.842,1434.95002,N,10444.85734,W,2,,1.1,12.71,M,,9.0,0108*2E
posmv	2008:231:00:00:00.0889	\$INHDT,15.0,T*11
posmv	2008:231:00:00:00.2047	\$INVTG,7.0,T,,M,9.7,N,17.9,K*46
posmv	2008:231:00:00:00.3208	\$INGST,235959.842,,0.9,0.9,0.0,0.9,0.9,2.5*51

posmv 2008:231:00:00:00.4411 \$PASHR,235959.842,15.05,T,- 0.58,0.48,0.15,0.069,0.069,0.045,2,0*05
posmv 2008:231:00:00:00.4412 \$INZDA,235959.0000,17,08,2008,,*73

## SeaPath Integrated Nav

**Logging interval:** 1 second

**File id:** seapath

The Kongsberg Seapath is an integrated navigation system. It was in operation for the length of the cruise.

*Interruptions greater than ten seconds are displayed in the following table.*

Log Date	Interruption	Comment
2008:254:18:00:00.1538		Logging officially started
2008:255:15:35:00.4873 -- 2008:255:15:39:09.3602	Missing data	Reason unrecorded
2008:255:15:59:38.4382 -- 2008:255:16:01:12.3182	Missing data	Reason unrecorded
2008:255:22:11:54.6510 -- 2008:255:22:12:07.5332	Missing data	Reason unrecorded
2008:256:16:04:32.5936 -- 2008:256:16:04:59.2888	Missing data	Reason unrecorded
2008:280:07:00:20.1374		Logging officially ended

## Seapath data format:

seapath	2008:231:00:00:00.0504	\$INZDA,235959.99,17,08,2008,,*73
seapath	2008:231:00:00:00.1686	\$INGGA,235959.99,1434.953109,N,10444.859147,W,2,08,1.1,- 16.30,M,,M,1.0,0291*70
seapath	2008:231:00:00:00.1687	\$INVTG,5.97,T,,M,9.7,N,,K,D*03
seapath	2008:231:00:00:00.1688	\$INHDT,5.82,T*1A

## Event Logger

**Logging interval:** 1 second

**File id:** tagger1

The Event logger time stamps time-break triggers from DigiShot in all fire modes.

*Interruptions greater than ten seconds are displayed in the following table.*

Log Date	Interruption	Comment
2008:254:20:26:00.1946		Logging officially started
2008:184:12:35:48.8457 -- 2008:184:12:36:38.5296	Missing data	Reason unrecorded

2008:254:21:23:58.9911 -- 2008:254:21:24:09.0579	Missing data	Reason unrecorded
2008:255:01:11:39.8652 -- 2008:255:01:11:55.2022	Missing data	Reason unrecorded
2008:255:15:37:03.0260 -- 2008:255:15:38:53.6162	Missing data	System test
2008:280:07:00:35.3418		Logging officially ended

Tagger1 data format:

tagger1	2008:231:00:00:00.0383	#51,08182008,000001
tagger1	2008:231:00:00:00.2027	#79,00000000
tagger1	2008:231:00:00:00.2948	#68,2
tagger1	2008:231:00:00:00.3689	#70,0
tagger1	2008:231:00:00:00.4010	#56,-00000
tagger1	2008:231:00:00:00.4210	#72,FF

## 882 Magnetometer

**Logging interval:** 1 second

**File id:** mag01

*Interruptions greater than ten seconds are displayed in the following table.*

Log Date	Interruption	Comment

Mag01 data format:

mag01	2008:185:09:45:58.1820	\$107714.673,0042,0024,0110,3533,1143
mag01	2008:185:09:46:01.0333	\$ 63703.933,0042,0024,0110,3533,1143
mag01	2008:185:09:46:04.0330	\$ 44031.029,0042,0027,0110,3533,1143

## SBE-23 Thermosalinograph

**Logging interval:** 1 second

**File id:** tsqconv

It was in operation from day 261 to day 265. It was not functional from day 254 to day 261 and after day 265 in MGL0814 cruise.

*Interruptions greater than 60 seconds are displayed in the following table.*

2008:261:21:24:37.1346		Logging officially started
2008:265:15:56:06.5383		Logging officially ended

Tsgconv data format:

tsgconv 33.74	2008:231:00:00:01.9179	B479CB5528A6D6ABFB2D	1531.59	28.85	24.35	5.53
tsgconv 33.74	2008:231:00:00:11.9187	B474CB5428A799ABBB2D	1531.61	28.85	24.36	5.53
tsgconv 33.74	2008:231:00:00:21.9176	B46FCB5328A70CAB8B2D	1531.60	28.85	24.35	5.53

### BGM-3 Gravimeter

**Logging interval:** 1 second

**File id:** vc01

*Interruptions greater than ten seconds are displayed in the following table.*

2008:154:16:00:00.0000		Logging officially started
2008:280:07:00:00.0000		Logging officially ended

### XBT

**Logging interval:** variable

**File id:** refer to spreadsheet

5 XBT drops were made during this cruise. Refer to the Expendable\_Drops spreadsheet in the Reports directory of the cruise archive.

## 5. Magnetometer Deploy/Retrieve Table

Time	Event
2008:260:20:15:40.680	Maggie deployed and recording
2008:262:15:59:39.917	Recovering Maggie
2008:264:00:41:36.179	Maggie deployed and recording
2008:165:22:34:18.001	Recovering Maggie
2008:269:05:42:10.558	Maggie deployed and recording
2008:270:22:05:53.545	Recovering Maggie
2008:272:23:46:01.453	Maggie deployed and recording
2008:275:02:30:19.694	Recovering Maggie

## 6. Acquisition Parameter Table

Acquisition Parameter Table	
AcquisitionParameterID	MGL0814_ACQ01
FieldActivityID	MGL0814
ReceiverType	Hydrophone Streamer
SourceType	Airgun
Acquisition System Name	Syntron Syntrack 960
Acquisition System Type	Digital
Seismic_Nav_System	C-Nav primary
Survey_datum	WGS84
Navigation Reference Point	Fore/Aft+4.87 m, Stb/pt +8.055 m, vertical +14.5 m
NRP_to_Antennae	4.87 m
NRP to source	161 m
Antenna_to_Source	
Source_to_Near_Channel	164 m
Number_of_channels_recorded	636
Number_of_cables	1
Number_of_channels_each_cable	636
Channel_length	12.5 m
Cable_length	8100 m
Cable_spacing	N/A
Near_Channel_Number	636
Cable_depth	9 m
Number_source_arrays	1
Alternate_Shooting	No
Source_array_separation	N/A
Source_volume	6600 cu in
Source_pressure	2000 psi nominal
Source_make,model	Bolt
Source_number	10
Source_depth	9 m
Shot_control	Distance
Shot_interval	50 m - MCS, 150 m - OBS
Sample_interval	2 ms
Record_length	16 sec
Compass_birds	Yes
Tail_buoy_Positioning	Yes
Recording_delay	No

## 7. Seismic Summary

The primary objectives of the cruise were survey lines in a 2D survey block using four gun strings set up as an alternating source (2 gun strings per source) and one 8.1 km streamers deployed by Lamont-Doherty Earth Observatory.

### Physical Configuration

The towing configuration for the air guns and streamers is detailed in the document titled *MGL0814.xls*. All antenna, vessel, and in water equipment offsets are also detailed in the aforementioned document.

### Spectra

Spectra was used for all timing and synchronization during the cruise. Spectra P294 data was processed using Sprint and a post-acquisition P190 data set was generated for the cruise.

### Misc Comments

Other information pertinent to the Alaska cruise is included in the *Job Book with Nav & Technical Support Final Rpt – MGL 0814*.



## 8. Client Instrumentation

Client launched 43 OBSs over the side during the cruise.

## 9. RV Langseth Gravity Tie Information

Cruise ID: MGL0814		
	PRE	POST
Date	09/07/2008	10/07/2008
Port	Pierside Astoria, OR	Pierside Astoria, OR
Operator	Ted	Bern McKiernan

### Pier Side Reading #1

Ship's position (C-Nav)	LAT: 19 03.94650	LONG: 104 17.52587	ALT:
Shipboard BGM	Shipboard BGM reading (mGal): 4.372mG		Height of pier over Main Deck (m) Level
Portable GPS Time	Time: 22:10UTC		
Portable GPS Position	LAT: 46 11.42	LONG: 123 51.52	ALT
L&R Reading	Reading1: 42584.6	Reading2: 42584.4	Reading3: 42584.5

### Tie Point

Tie Point Description (also include relevant documentation/maps/pictures)			
Portable GPS Time	Time:		
Portable GPS Position	LAT:	LONG:	ALT:
L&R Reading	Reading1:	Reading2:	Reading3:

### Pier Side L&R reading #3

Shipboard BGM	Shipboard BGM reading (mGal)		Height of pier over Main Deck (m)
Portable GPS Time	Time:		
Portable GPS Position	LAT:	LONG:	ALT:
L&R Reading	Reading1:	Reading2:	Reading3:

### Note

--

Tape No.	Seq No.	Line Name	REEL #	Size (GB)	Files
Tape001	1	Steep09	1	18.7	967
			2	16.1	831
	2	Steep15	3	11.4	591
	3	Steep13	4	18.7	967
			5	18.7	967
			6	15.3	790
	4	Steep07	7	18.7	967
			8	18.3	943
Tape002	5	Steep07A	10	0.716	37
	6	Steep07B	11	12.6	654
	7	Steep16	12	11.7	604
	8	Steep17	13	10.1	525
	9	Steep19	14	1.92	100
	10	Steep18	15	9.52	491
			16	18.7	967
			17	18.7	967
		Steep01 S1	18	4.16	215
			19	18.7	967
			20	18.7	967
			21	18.7	967
Tape003	11	Steep01 S2	22	18.7	967
			23	8.84	456
			24	18.7	967
			25	18.7	967
			26	18.7	967
			27	18.7	967
Tape004	12	Steep02	28	6.24	322
			29	18.7	967
			30	18.7	967
			31	18.7	967
			32	18.7	967
			33	1.53	79

XBT Drops

Drop No.	Type	SN	Shot Spacing (m)	Line/Site	JD	Time (UTC)	Shot #	LAT (deg)	LAT (min)	LON (deg)	LON (min)	CB Depth (m)	XBT Depth (m)	Side	Fail?	Filename	Notes
1	T-5	SN313308DOM	NS	Steep01	267	18:14:55	NS	60	2.097	142	58.598	89.89	91.8	Aft		T5_00028	
2	T-5	SN313308DOM	NS	Steep01	268	06:05:09	NS	58	1.607	142	35.509	3728	1830.5	Aft		T5_00029	
3	T-5	SN313308DOM	NS	Steep01	268	13:40:07	NS	58	51.175	141	17.732	1978.58	1493.3	Aft		T5_00030	
4	T-5	SN313308DOM	NS	Steep01	268	20:20:11	NS	59	28.066	140	15.695	247.29	234	Aft		T5_00031	

\$@MID@\$: 1

Date: Tue, 09 Sep 2008 22:12:59 +0000

Record time: 2008-09-09T22:12

Author: mz

Type: Comment/Event

Subject: MGL0814 starts on 09/09/2008

Attachment:

Encoding: ELCode

---

\$@MID@\$: 2

Date: Wed, 10 Sep 2008 18:10:33 +0000

Record time: 2008-09-10T18:04

Author: RE

Type: Transit

Subject: Gangway up, ship in Transit to Prospect

Attachment:

Encoding: ELCode

---

Gangway up, ship in Transit to Prospect

\$@MID@\$: 3

Date: Wed, 10 Sep 2008 21:00:29 +0000

Record time: 2008-09-10T20:34

Author: RE

Type: Multibeam

Subject: Started logging of Multibeam Data

Attachment:

Encoding: ELCode

---

Started logging of Multibeam Data

\$@MID@\$: 4

Date: Thu, 11 Sep 2008 15:04:53 +0000

Record time: 2008-09-10T21:13

Author: BM

Type: PC02/TSG

Subject: PC02/TSG turned on and logging

Attachment:

Encoding: ELCode

---

PC02/TSG turned on and logging

\$@MID@\$: 5

Date: Thu, 11 Sep 2008 15:16:49 +0000

Record time: 2008-09-11T00:00

Author: BM

Type: MIDNIGHT

Subject: Midnight Position

Attachment:  
Encoding: ELCode

=====  
46'40.368 N  
124'45.828 W  
Heading 321 speed 10 KTS  
\$@MID\$: 6  
Date: Thu, 11 Sep 2008 16:12:42 +0000  
Record time: 2008-09-11T16:11  
Author: BM  
Type: PC02/TSG  
Subject: Daily check of PC02/TSG  
Attachment:  
Encoding: ELCode

=====  
Daily check of PC02/TSG  
PC02 sample rate check complete checked sea water flow all system normal  
\$@MID\$: 7  
Date: Thu, 11 Sep 2008 16:14:06 +0000  
Record time: 2008-09-11T16:12  
Author: BM  
Type: KNUDSEN  
Subject: Knudsen turned on and correct depth readings  
Attachment:  
Encoding: ELCode

=====  
Knudsen turned on and correct depth readings  
\$@MID\$: 8  
Date: Fri, 12 Sep 2008 00:09:55 +0000  
Record time: 2008-09-12T00:07  
Author: BM  
Type: MIDNIGHT  
Subject: Midnight position  
Attachment:  
Encoding: ELCode

=====  
49'42.60234 N  
128'35.41586 W  
heading 318 Speed 9.9  
\$@MID\$: 9  
Date: Sat, 13 Sep 2008 02:37:37 +0000  
Record time: 2008-09-13T00:00  
Author: BM  
Type: MIDNIGHT  
Subject: Midnight Position  
Attachment:

Encoding: ELCode

---

52'51.056 N  
132'36.669 W  
heading 328 Speed 10 KTS  
\$@MID@\$: 10  
Date: Sun, 14 Sep 2008 02:48:11 +0000  
Record time: 2008-09-14T00:00  
Author: BM  
Type: MIDNIGHT  
Subject: Midnight position  
Attachment:  
Encoding: ELCode

---

56'32'48.272 N  
135'33'46.327 W  
Heading 340' Speed 10 KTS  
\$@MID@\$: 11  
Date: Sun, 14 Sep 2008 11:54:01 +0000  
Record time: 2008-09-14T11:52  
Author: lw/sc  
Type: Transit  
Subject: beginning science party watches  
Attachment:  
Encoding: ELCode

---

Beginning 4-8 watch. Watch assumed by Lindsay Worthington and Seth Campbell. In transit to OBS deployment 125.  
\$@MID@\$: 12  
Date: Sun, 14 Sep 2008 12:34:20 +0000  
Record time: 2008-09-14T12:33  
Author: lw  
Type: Arrival Time  
Subject: on site for OBS deployment 125  
Attachment:  
Encoding: ELCode

---

on site for OBS deployment 125. preparing for deployment.

N 58'11.86  
W 138'11.26  
\$@MID@\$: 13  
Date: Sun, 14 Sep 2008 13:26:20 +0000  
Record time: 2008-09-14T13:20  
Author: lw  
Type: OBS Deployment

Subject: OBS Deployment 125

Attachment:

Encoding: ELCode

---

13:20 hrs OBS deployment 125

N 58 11.64

W 138 10.97

depth (center beam from bridge) 140 m

speed 1.8 kts heading 138

\$@MID@\$: 14

Date: Sun, 14 Sep 2008 13:27:49 +0000

Record time: 2008-09-14T13:21

Author: lw

Type: Recording issue

Subject: Center Beam reading in main lab problem

Attachment:

Encoding: ELCode

---

Main lab center beam depth reading not correct. Use bridge reference for OBS logging.

\$@MID@\$: 15

Date: Sun, 14 Sep 2008 14:48:03 +0000

Record time: 2008-09-14T14:45

Author: lw

Type: OBS Deployment

Subject: OBS Deployment 124

Attachment:

Encoding: ELCode

---

14:45 hrs OBS deployment 124

N 58 16.486

W 138 22.324

depth 135 m (bridge)

speed 2.2 kts heading 188

\$@MID@\$: 16

Date: Sun, 14 Sep 2008 15:53:39 +0000

Record time: 2008-09-14T15:50

Author: lw

Type: OBS Deployment

Subject: OBS Deployment 123

Attachment:

Encoding: ELCode

---

1550 hrs OBS deployment 123

N 58 21.305

W 138 33.675



depth 110 m (bridge)  
speed 2.9 kts heading 188  
\$@MID@\$: 17  
Date: Sun, 14 Sep 2008 16:44:42 +0000  
Record time: 2008-09-14T16:00  
Author: rsr  
Type: Comment/Event  
Subject: watch relief  
Attachment:  
Encoding: ELCode

---

The watch is relieved by Adam Barker and Bobby Reece.  
\$@MID@\$: 18  
Date: Sun, 14 Sep 2008 17:01:55 +0000  
Record time: 2008-09-14T16:59  
Author: rsr  
Type: OBS Deployment  
Subject: OBS Deployment 122  
Attachment:  
Encoding: ELCode

---

1659 hrs OBS deployment 122  
N 58 26.133  
W 138 45.084  
depth 92 m (bridge)  
speed 1.61 kts heading 202  
\$@MID@\$: 19  
Date: Sun, 14 Sep 2008 18:07:45 +0000  
Record time: 2008-09-14T18:05  
Author: rsr  
Type: OBS Deployment  
Subject: OBS Deployment 121  
Attachment:  
Encoding: ELCode

---

1805 hrs OBS deployment 121  
N 58 30.900  
W 138 56.570  
depth 99 m (bridge)  
speed 2 kts heading 215  
\$@MID@\$: 20  
Date: Sun, 14 Sep 2008 19:13:39 +0000  
Record time: 2008-09-14T19:10  
Author: rsr  
Type: OBS Deployment  
Subject: OBS Deployment 120

Attachment:  
Encoding: ELCode

=====

1910 hrs OBS deployment 120  
N 58 35.669  
W 138 08.079  
depth 145 m (bridge)  
speed 1.77 kts heading 180  
\$@MID@\$: 21  
Date: Sun, 14 Sep 2008 20:00:37 +0000  
Record time: 2008-09-14T19:59  
Author: cre  
Type: Comment/Event  
Subject: watch relief  
Attachment:  
Encoding: ELCode

=====

watch relief by ryan elmore (cre) and ben hooks  
\$@MID@\$: 22  
Date: Sun, 14 Sep 2008 20:39:05 +0000  
Record time: 2008-09-14T20:37  
Author: cre  
Type: OBS Deployment  
Subject: OBS deployment 119  
Attachment:  
Encoding: ELCode

=====

2035 hrs OBS deployment 119  
N 58 40.438  
W 139 19.658  
depth 250 m (bridge)  
speed 0.74 kts heading 91  
\$@MID@\$: 23  
Date: Sun, 14 Sep 2008 21:36:48 +0000  
Record time: 2008-09-14T21:35  
Author: cre  
Type: OBS Deployment  
Subject: OBS deployment 118  
Attachment:  
Encoding: ELCode

=====

2133 hrs OBS deployment 118  
N 58 45.18  
W 139 31.27  
depth 163 m (bridge)  
speed 1.56 kts heading 337

\$@MID@\$: 24  
Date: Sun, 14 Sep 2008 22:47:27 +0000  
Record time: 2008-09-14T22:45  
Author: cre  
Type: OBS Deployment  
Subject: OBS deployment 117  
Attachment:  
Encoding: ELCode

=====

2243 hrs OBS deployment 117

N 58 49.919

W 139 42.901

depth 162 m (bridge)

speed 1.76 kts heading 165

\$@MID@\$: 25

Date: Sun, 14 Sep 2008 23:48:06 +0000

Record time: 2008-09-14T23:46

Author: cre

Type: OBS Deployment

Subject: OBS deployment 116

Attachment:

Encoding: ELCode

=====

2343 hrs OBS deployment 116

N 58 54.58

W 139 54.633

depth 151 m (bridge)

speed 2.02 kts heading 324

\$@MID@\$: 26

Date: Sun, 14 Sep 2008 23:49:22 +0000

Record time: 2008-09-14T24:00

Author: lw

Type: Comment/Event

Subject: Watch Relief

Attachment:

Encoding: ELCode

=====

2400 hrs. Watch relief by Lindsay Worthington and Seth Campbell.

\$@MID@\$: 27

Date: Mon, 15 Sep 2008 00:52:33 +0000

Record time: 2008-09-15T00:47

Author: lw

Type: OBS Deployment

Subject: OBS Deployment 115

Attachment:

Encoding: ELCode

=====

0047 hrs OBS deployment 115  
N 58 59.275  
W 140 06.443  
depth 145 m  
speed 1.6 kts heading 182  
\$@MID@\$: 28  
Date: Mon, 15 Sep 2008 00:53:57 +0000  
Record time: 2008-09-15T00:00  
Author: lw  
Type: MIDNIGHT  
Subject: midnight position  
Attachment:  
Encoding: ELCode

=====

N 58 56.0164  
W 139 57.8967  
10 kts  
heading 308  
\$@MID@\$: 29  
Date: Mon, 15 Sep 2008 01:45:04 +0000  
Record time: 2008-09-15T01:42  
Author: lw  
Type: OBS Deployment  
Subject: OBS Deployment 114  
Attachment:  
Encoding: ELCode

=====

0142 hrs OBS deployment 114  
N 59 03.959  
W 140 18.269  
depth 155m  
speed 1.8 kts heading 307  
\$@MID@\$: 30  
Date: Mon, 15 Sep 2008 02:37:15 +0000  
Record time: 2008-09-15T02:34  
Author: lw  
Type: OBS Deployment  
Subject: OBS Deployment 113  
Attachment:  
Encoding: ELCode

=====

0234 hrs OBS deployment 113  
N 59 08.609  
W 140 30.137  
depth 138 m

speed 1.9 heading 293  
\$@MID@\$: 31  
Date: Mon, 15 Sep 2008 03:42:59 +0000  
Record time: 2008-09-15T03:39  
Author: lw  
Type: OBS Deployment  
Subject: OBS Deployment 112  
Attachment:  
Encoding: ELCode

---

0339 hrs OBS deployment 112  
N 59 13.261  
W 140 42.080  
depth 154  
speed 2.2 kts heading 244  
\$@MID@\$: 32  
Date: Mon, 15 Sep 2008 03:44:38 +0000  
Record time: 2008-09-15T03:43  
Author: lw  
Type: Comment/Event  
Subject: Spectra GPS down  
Attachment:  
Encoding: ELCode

---

Spectra display GPS not correct. Deployment sites do not match up with display. Correct positions confirmed with bridge.  
\$@MID@\$: 33  
Date: Mon, 15 Sep 2008 04:04:27 +0000  
Record time: 2008-09-15T04:02  
Author: ADB  
Type: Comment/Event  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

---

0400. Watch Relief. Adam Barker (ADB) and Bobby Reece on station.  
\$@MID@\$: 34  
Date: Mon, 15 Sep 2008 04:33:46 +0000  
Record time: 2008-09-15T04:32  
Author: ADB  
Type: OBS Deployment  
Subject: OBS Deployment 111  
Attachment:  
Encoding: ELCode

---

0432 hrs OBS deployment 111

N 59 17.848  
W 140 54.078  
depth 157  
speed 1.3 kts heading 262.86  
\$@MID@\$: 35  
Date: Mon, 15 Sep 2008 05:32:54 +0000  
Record time: 2008-09-15T05:32  
Author: ADB  
Type: OBS Deployment  
Subject: OBS Deployment 110  
Attachment:  
Encoding: ELCode

---

0531 hrs OBS deployment 110  
N 59 22.455  
W 141 06.120  
depth 259  
speed 1.9 kts heading 278.88  
\$@MID@\$: 36  
Date: Mon, 15 Sep 2008 06:25:47 +0000  
Record time: 2008-09-15T06:24  
Author: ADB  
Type: OBS Deployment  
Subject: OBS Deployment 109  
Attachment:  
Encoding: ELCode

---

0623 hrs OBS deployment 109  
N 59 27.013  
W 141 18.240  
depth 202  
speed 2.3 kts heading 296.98  
\$@MID@\$: 37  
Date: Mon, 15 Sep 2008 07:23:33 +0000  
Record time: 2008-09-15T07:22  
Author: ADB  
Type: OBS Deployment  
Subject: OBS Deployment 108  
Attachment:  
Encoding: ELCode

---

0722 hrs OBS deployment 108  
N 59 31.572  
W 141 30.404  
depth 146  
speed 1.9 kts heading 308.58

\$@MID@\$: 38

Date: Mon, 15 Sep 2008 07:59:21 +0000

Record time: 2008-09-15T07:58

Author: BPH

Type: Comment/Event

Subject: Watch relief

Attachment:

Encoding: ELCode

---

0800. Watch Relief. Ben Hooks (BPH) and Ryan Elmore on station.

\$@MID@\$: 39

Date: Mon, 15 Sep 2008 08:17:59 +0000

Record time: 2008-09-15T08:16

Author: BPH

Type: OBS Deployment

Subject: OBS Deployment 107

Attachment:

Encoding: ELCode

---

0815 hrs OBS deployment 107

N 59 36.092

W 141 42.565

depth 131

speed 1.2 kts heading 307.19

\$@MID@\$: 40

Date: Mon, 15 Sep 2008 09:15:45 +0000

Record time: 2008-09-15T09:14

Author: BPH

Type: OBS Deployment

Subject: OBS Deployment 106

Attachment:

Encoding: ELCode

---

0914 hrs OBS deployment 106

N 59 40.611

W 141 54.830

depth 133

speed 1.3 kts heading 297.77

\$@MID@\$: 41

Date: Mon, 15 Sep 2008 10:09:27 +0000

Record time: 2008-09-15T10:08

Author: BPH

Type: OBS Deployment

Subject: OBS Deployment 105

Attachment:

Encoding: ELCode

=====

1008 hrs OBS deployment 105  
N 59 45.104  
W 142 07.179  
depth 125  
speed 1.7 kts heading 322.38  
\$@MID@\$: 42  
Date: Mon, 15 Sep 2008 11:02:30 +0000  
Record time: 2008-09-15T11:00  
Author: BPH  
Type: OBS Deployment  
Subject: OBS Deployment 104  
Attachment:  
Encoding: ELCode

=====

1100 hrs OBS deployment 104  
N 59 49.578  
W 142 19.560  
depth 103  
speed 3.0 kts heading 341.77  
\$@MID@\$: 43  
Date: Mon, 15 Sep 2008 11:34:53 +0000  
Record time: 2008-09-15T11:29  
Author: BPH  
Type: Comment/Event  
Subject: Bathometer error  
Attachment:  
Encoding: ELCode

=====

1129 Bathometer stopped posting data on data watcher  
\$@MID@\$: 44  
Date: Mon, 15 Sep 2008 11:41:47 +0000  
Record time: 2008-09-15T11:40  
Author: BPH  
Type: Comment/Event  
Subject: Restarted multibeam  
Attachment:  
Encoding: ELCode

=====

1140. Restarted multibeam. Stopped updating.  
\$@MID@\$: 45  
Date: Mon, 15 Sep 2008 11:51:17 +0000  
Record time: 2008-09-15T11:49  
Author: BPH  
Type: OBS Deployment  
Subject: OBS Deployment 103



Attachment:  
Encoding: ELCode

=====

1150 hrs OBS deployment 103  
N 59 54.044  
W 142 31.995  
depth 110  
speed 2.6 kts heading 351.28  
\$@MID@\$: 46  
Date: Mon, 15 Sep 2008 11:54:01 +0000  
Record time: 2008-09-15T11:53  
Author: lw  
Type: Comment/Event  
Subject: watch relief  
Attachment:  
Encoding: ELCode

=====

1200 hrs. watch assumed by Lindsay Worthington and Seth Campbell.  
\$@MID@\$: 47  
Date: Mon, 15 Sep 2008 12:42:16 +0000  
Record time: 2008-09-15T12:39  
Author: lw  
Type: OBS Deployment  
Subject: OBS Deployment 102  
Attachment:  
Encoding: ELCode

=====

1239 hrs OBS deployment 102  
N 59 58.498  
W 142 44.495  
depth 113  
speed 2.9 kts heading 321.28  
\$@MID@\$: 48  
Date: Mon, 15 Sep 2008 13:37:47 +0000  
Record time: 2008-09-15T13:34  
Author: lw  
Type: OBS Deployment  
Subject: OBS Deployment 101  
Attachment:  
Encoding: ELCode

=====

1334 hrs OBS deployment 101  
N 60 02.899  
W 142 56.021  
depth 67  
speed 2.0 kts heading 338

\$@MID@\$: 49

Date: Mon, 15 Sep 2008 13:38:54 +0000

Record time: 2008-09-15T13:37

Author: lw

Type: course change

Subject: course change

Attachment:

Encoding: ELCode

---

final OBS deployed for STEEP01. turning toward southern waypoint of STEEP09.

\$@MID@\$: 50

Date: Mon, 15 Sep 2008 13:49:29 +0000

Record time: 2008-09-15T13:47

Author: lw

Type: Equipment Problem

Subject: restart multibeam

Attachment:

Encoding: ELCode

---

restart multibeam due to disk space.

\$@MID@\$: 51

Date: Mon, 15 Sep 2008 14:27:29 +0000

Record time: 2008-09-15T14:26

Author: SC

Type: Tail buoy

Subject: Tail Buoy deployment

Attachment:

Encoding: ELCode

---

Tail Buoy deployed, begin streamer deployment.

\$@MID@\$: 52

Date: Mon, 15 Sep 2008 15:55:13 +0000

Record time: 2008-09-15T15:54

Author: SC

Type: streamer

Subject: Change streamer section

Attachment:

Encoding: ELCode

---

Beginning change of streamer section near bird AB23

\$@MID@\$: 53

Date: Mon, 15 Sep 2008 16:39:01 +0000

Record time: 2008-09-15T16:35

Author: SC

Type: streamer

Subject: Change of streamer section completed

Attachment:

Encoding: ELCode

---

Change of streamer section at AB23 completed and tested but failing power connection. Rechecking connections.

\$@MID@\$: 54

Date: Mon, 15 Sep 2008 16:51:48 +0000

Record time: 2008-09-15T16:00

Author: rsr

Type: Comment/Event

Subject: Watch Relief

Attachment:

Encoding: ELCode

---

0800 hrs. Watch relieved by Adam Barker and Bobby Reece.

\$@MID@\$: 55

Date: Mon, 15 Sep 2008 17:18:05 +0000

Record time: 2008-09-15T17:15

Author: rsr

Type: Reel switch

Subject: Reel Switch

Attachment:

Encoding: ELCode

---

Separated last 2km of streamer 2 and attached to streamer 1.

\$@MID@\$: 56

Date: Mon, 15 Sep 2008 18:44:11 +0000

Record time: 2008-09-15T18:41

Author: rsr

Type: Comment/Event

Subject: Module Changeout

Attachment:

Encoding: ELCode

---

Changed module 24 due to low pressure.

\$@MID@\$: 57

Date: Mon, 15 Sep 2008 20:16:56 +0000

Record time: 2008-09-15T20:15

Author: cre

Type: Watch Relief

Subject: watch relief

Attachment:

Encoding: ELCode

---

1952 hrs

watch relief by ryan elmore and ben hooks.

\$@MID@\$: 58

Date: Mon, 15 Sep 2008 21:19:17 +0000

Record time: 2008-09-15T21:18

Author: cre

Type: Comment/Event

Subject: Module changeout

Attachment:

Encoding: ELCode

=====

Changed module 37 due to low pressure.

2116 hrs

N 59 38.059

W 142 57.322

Speed 3.48 kts heading 181

\$@MID@\$: 59

Date: Mon, 15 Sep 2008 22:10:24 +0000

Record time: 2008-09-15T22:09

Author: mz

Type: Comment/Event

Subject: Module 37 changed to original one

Attachment:

Encoding: ELCode

=====

due to two replacements failed, change module 37 back to original one

\$@MID@\$: 60

Date: Mon, 15 Sep 2008 23:58:05 +0000

Record time: 2008-09-15T23:57

Author: lw

Type: Comment/Event

Subject: watch relief

Attachment:

Encoding: ELCode

=====

2400 hrs. Watch assumed by Lindsay Worthington and Seth Campbell.

\$@MID@\$: 61

Date: Tue, 16 Sep 2008 00:04:06 +0000

Record time: 2008-09-16T00:02

Author: lw

Type: MIDNIGHT

Subject: midnight position

Attachment:

Encoding: ELCode

=====

N 59 28.58498

W 142 56.9044

heading 160.69 speed 3 kts  
\$@MID@\$: 62  
Date: Tue, 16 Sep 2008 00:19:35 +0000  
Record time: 2008-09-16T00:19  
Author: lw  
Type: Comment/Event  
Subject: change steamer section  
Attachment:  
Encoding: ELCode

---

\$@MID@\$: 63  
Date: Tue, 16 Sep 2008 02:16:03 +0000  
Record time: 2008-09-16T02:14  
Author: lw  
Type: streamer  
Subject: deployed lead end  
Attachment:  
Encoding: ELCode

---

Lead end of streamer deployed.  
N 59 21.504  
W 142 54.4433  
speed 3 kts heading 166.73  
\$@MID@\$: 64  
Date: Tue, 16 Sep 2008 03:19:30 +0000  
Record time: 2008-09-16T03:19  
Author: lw  
Type: streamer  
Subject: front float is in  
Attachment:  
Encoding: ELCode

---

\$@MID@\$: 65  
Date: Tue, 16 Sep 2008 03:55:44 +0000  
Record time: 2008-09-16T03:54  
Author: ADB  
Type: Watch Relief  
Subject: 0400 Watch Relief  
Attachment:  
Encoding: ELCode

---

0400 Watch Relief. Adam Barker and Bobby Reece on watch.  
\$@MID@\$: 66  
Date: Tue, 16 Sep 2008 08:11:38 +0000

Record time: 2008-09-16T08:11

Author: BPH

Type: Comment/Event

Subject: Watch Relief

Attachment:

Encoding: ELCode

=====

0800 Watch relief. Ben Hooks and Ryan Elmore on station

\$@MID@\$: 67

Date: Tue, 16 Sep 2008 09:27:03 +0000

Record time: 2008-09-16T09:24

Author: BPH

Type: Manuvering

Subject: Course change

Attachment:

Encoding: ELCode

=====

0924. Start Course change

N 58 58.858

W 142.38.993

Heading 146.93

Speed 3.1 kts

Depth 3269.09

\$@MID@\$: 68

Date: Tue, 16 Sep 2008 09:38:31 +0000

Record time: 2008-09-16T09:37

Author: BPH

Type: Speed request

Subject: Reduce speed request

Attachment:

Encoding: ELCode

=====

0934. Main lab requested speed reduction

Streamer tension at 4800 lbs

Speed reduced from 5 kts to 3.3 kts.

\$@MID@\$: 69

Date: Tue, 16 Sep 2008 10:02:08 +0000

Record time: 2008-09-16T10:00

Author: BPH

Type: Transit

Subject: Course update

Attachment:

Encoding: ELCode

=====

1000. Course update

N 58 57.039

W 142 39.297  
Heading 196.58  
Speed 3.5 kts  
Depth 3287.09  
\$@MID@\$: 70  
Date: Tue, 16 Sep 2008 10:21:20 +0000  
Record time: 2008-09-16T10:18  
Author: RE  
Type: Manuvering  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

Course UPDATE  
Turning 80 deg to STBD, LAT 58.56.160N, LON 142 40.263W  
HDG 194.55, DEPTH 3299, Speed 3.5 kts  
\$@MID@\$: 71  
Date: Tue, 16 Sep 2008 10:33:55 +0000  
Record time: 2008-09-16T10:32  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

1032. Course update.  
N 58 55.160  
W 142 41.223  
Heading 226.67  
Speed 3.7  
Depth 3305.59  
\$@MID@\$: 72  
Date: Tue, 16 Sep 2008 10:58:41 +0000  
Record time: 2008-09-16T10:57  
Author: BPH  
Type: Manuvering  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

1057. Course Update  
N 58 55.613  
W 142 43.997  
Heading 271.33  
Speed 3.1  
Depth 3338.12

\$@MID@\$: 73

Date: Tue, 16 Sep 2008 11:31:39 +0000

Record time: 2008-09-16T11:30

Author: BPH

Type: Manuvering

Subject: Course Update

Attachment:

Encoding: ELCode

---

1130. Course update.

N 58 56.372

W 142 47.737

Heading 273.26

Speed 4.1 kts

Depth 3302.07

\$@MID@\$: 74

Date: Tue, 16 Sep 2008 11:59:11 +0000

Record time: 2008-09-16T11:58

Author: SC

Type: Watch Relief

Subject: Watch relief; Seth Campbell and Lindsay Worthington on Duty

Attachment:

Encoding: ELCode

---

Watch relief; Seth Campbell and Lindsay Worthington on Duty 1200 hrs

\$@MID@\$: 75

Date: Tue, 16 Sep 2008 12:03:19 +0000

Record time: 2008-09-16T12:01

Author: SC

Type: course change

Subject: Course update

Attachment:

Encoding: ELCode

---

On transit to STEEP 9, course update

N 58 57 12874

W 142 51 48718

Heading 282.09

Depth 3299.07

Speed 4.7

Tension 3434

\$@MID@\$: 76

Date: Tue, 16 Sep 2008 12:05:48 +0000

Record time: 2008-09-16T12:04

Author: SC

Type: Air Guns



Subject: Air gun deployed

Attachment:

Encoding: ELCode

---

One air gun has been deployed according the Sean Gulick approximately 30 minutes to 1 hr prior to current time

\$@MID@\$: 77

Date: Tue, 16 Sep 2008 12:34:21 +0000

Record time: 2008-09-16T12:32

Author: SC

Type: course change

Subject: Course Update

Attachment:

Encoding: ELCode

---

Course update towards steep 09

N 58 57 85951

W 142 55 43293

Heading 279.85

Depth 3437

Speed 4.25

Tension 3255

\$@MID@\$: 78

Date: Tue, 16 Sep 2008 13:05:19 +0000

Record time: 2008-09-16T13:03

Author: SC

Type: course change

Subject: Course Update

Attachment:

Encoding: ELCode

---

Course update enroute to STEEP 09

N 58 59 21214

W 142 58 29707

Heading 354.84

Speed 3.71

Depth 3415

Tension 2210

Captain attempting to turn on course while gunners are deploying air guns

\$@MID@\$: 79

Date: Tue, 16 Sep 2008 13:33:51 +0000

Record time: 2008-09-16T13:32

Author: SC

Type: course change

Subject: Course update; Air Gun # 2 deployment; Speed increase

Attachment:  
Encoding: ELCode

=====

Course update enroute to STEEP 09  
N 59 01 08418  
W 142 57 40120  
Heading 27.83  
Speed 4.00  
Depth 3392  
Tension 2456

Note that air gun # 2 appears to have been deployed between 1300 and 1330 hrs; Bridge was also contacted to increase speed due to low tension (1740 lbs). Speed increased to 3.8-4.0

\$@MID@\$: 80

Date: Tue, 16 Sep 2008 14:05:16 +0000

Record time: 2008-09-16T14:03

Author: SC

Type: course change

Subject: Course Update

Attachment:

Encoding: ELCode

=====

Course update enroute to STEEP 09  
N 59 03 47704  
W 142 56 9788  
Heading 1.21  
Speed 4.26  
Depth 3436  
Tension 3156

\$@MID@\$: 81

Date: Tue, 16 Sep 2008 14:18:36 +0000

Record time: 2008-09-16T14:16

Author: SC

Type: streamer

Subject: Kellum Grip Change

Attachment:

Encoding: ELCode

=====

Kellum grip being moved 50 meters forward from original position on streamer. Air gun operations on hold until kellum grip position change.

\$@MID@\$: 82

Date: Tue, 16 Sep 2008 14:35:37 +0000

Record time: 2008-09-16T14:32

Author: SC

Type: course change

Subject: Course Update

Attachment:

Encoding: ELCode

---

N 59 05 58984

W 142 57 11061

Speed 3.78

Depth 3384

Heading 24.81

Request by Tom Spoto to bridge to turn 180 degrees heading south to buy time for re-positioning of steamers and air guns

\$@MID@\$: 83

Date: Tue, 16 Sep 2008 15:04:19 +0000

Record time: 2008-09-16T15:01

Author: SC

Type: course change

Subject: Course Update and Streamer Update

Attachment:

Encoding: ELCode

---

Course update enroute to STEEP 09; Turned stbd to heading 106.47

N 59 06 86177

W 142 54 30580

Depth 3316 Speed 3.97 Tension on streamer 1963

Kellum grip reinstalled and streamer returned to mid ship anchor point.

Crew returning to air gun deployments.

\$@MID@\$: 84

Date: Tue, 16 Sep 2008 15:16:54 +0000

Record time: 2008-09-16T15:16

Author: SC

Type: Speed request

Subject: Speed Increase to 4.5

Attachment:

Encoding: ELCode

---

Increase in speed to 4.5 knots in effort to lower birds 17-23 which are at 2 m depth

\$@MID@\$: 85

Date: Tue, 16 Sep 2008 15:33:53 +0000

Record time: 2008-09-16T15:32

Author: SC

Type: course change

Subject: Course Update

Attachment:

Encoding: ELCode

---

N 59 05 41984  
W 142 51 95286  
Heading 150.20  
Streamer tension 3994  
Speed 5.12  
Depth 3327

Contacted bridge because velocities exceeded 4.5 (5.12) and tension reached above 4000 lbs on streamer

\$@MID@\$: 86

Date: Tue, 16 Sep 2008 15:58:43 +0000

Record time: 2008-09-16T15:57

Author: ADB

Type: Watch Relief

Subject: Watch Relief

Attachment:

Encoding: ELCode

=====

1600 Watch Relief. Adam Barker and Bobby Reece on station.

\$@MID@\$: 87

Date: Tue, 16 Sep 2008 16:04:24 +0000

Record time: 2008-09-16T16:02

Author: ADB

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

=====

N 59 03.589

W 142 50.288

Speed 3.7 kts Depth 3330 m

Tension 2807 lbs Heading 150.35

\$@MID@\$: 88

Date: Tue, 16 Sep 2008 16:34:50 +0000

Record time: 2008-09-16T16:33

Author: ADB

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

=====

N 59 01.720

W 142 49.010

Speed 3.1 kts Depth 3307 m

Tension 3091 lbs Heading 157.17

\$@MID@\$: 89

Date: Tue, 16 Sep 2008 17:02:36 +0000  
Record time: 2008-09-16T17:01  
Author: ADB  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 00.248  
W 142 48.365  
Speed 3.6 kts Depth 3267 m  
Tension 3718 lbs Heading 158.67  
\$@MID@\$: 90  
Date: Tue, 16 Sep 2008 17:37:26 +0000  
Record time: 2008-09-16T17:36  
Author: ADB  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 58 58.500  
W 142 47.892  
Speed 2.8 kts Depth 3264 m  
Tension 2665 lbs Heading 162.81  
\$@MID@\$: 91  
Date: Tue, 16 Sep 2008 17:53:15 +0000  
Record time: 2008-09-16T17:52  
Author: ADB  
Type: Comment/Event  
Subject: All Guns out; Turning to Starboard  
Attachment:  
Encoding: ELCode

---

All guns out. Beginning starboard turn on route to STEEP 09.  
\$@MID@\$: 92  
Date: Tue, 16 Sep 2008 17:59:20 +0000  
Record time: 2008-09-16T17:58  
Author: ADB  
Type: Comment/Event  
Subject: No detection of Autofire  
Attachment:  
Encoding: ELCode

---

Ran a test to determine if there is an autofire. None detected.  
\$@MID@\$: 93

Date: Tue, 16 Sep 2008 18:05:38 +0000  
Record time: 2008-09-16T18:04  
Author: ADB  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 58 57.086  
W 142 47.937  
Speed 3.3 kts Depth 3289 m  
Tension 2949 lbs Heading 197.22  
\$@MID@\$: 94  
Date: Tue, 16 Sep 2008 18:22:32 +0000  
Record time: 2008-09-16T18:22  
Author: ADB  
Type: PAM  
Subject: PAM in the water  
Attachment:  
Encoding: ELCode

---

PAM deployed.  
\$@MID@\$: 95  
Date: Tue, 16 Sep 2008 18:32:03 +0000  
Record time: 2008-09-16T18:31  
Author: ADB  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 58 56.647  
W 142 51.255  
Speed 4.5 kts Depth 3302 m  
Tension 3240 lbs Heading 274.64  
\$@MID@\$: 96  
Date: Tue, 16 Sep 2008 18:46:12 +0000  
Record time: 2008-09-16T18:45  
Author: ADB  
Type: Ramp up  
Subject: Gun Ramp Up  
Attachment:  
Encoding: ELCode

---

Beginning to ramp up guns.  
\$@MID@\$: 97

Date: Tue, 16 Sep 2008 18:53:01 +0000  
Record time: 2008-09-16T18:52  
Author: ADB  
Type: Air Guns  
Subject: Soft start begun  
Attachment:  
Encoding: ELCode

---

Soft start has begun. On route to STEEP 09  
\$@MID@\$: 98

Date: Tue, 16 Sep 2008 19:02:05 +0000  
Record time: 2008-09-16T19:00  
Author: ADB  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 58 58.374  
W 142 54.207  
Speed 5.1 kts Depth 3413 m  
Tension 2792 lbs Heading 344.00  
\$@MID@\$: 99  
Date: Tue, 16 Sep 2008 19:07:05 +0000  
Record time: 2008-09-16T19:06  
Author: ADB  
Type: Transit  
Subject: Finished Turn  
Attachment:  
Encoding: ELCode

---

Finished turn to STEEP 09.  
Heading 353.95  
\$@MID@\$: 100  
Date: Tue, 16 Sep 2008 19:13:20 +0000  
Record time: 2008-09-16T19:12  
Author: ADB  
Type: Ramp up  
Subject: Ramp up complete  
Attachment:  
Encoding: ELCode

---

Ramp up is complete. Starting line STEEP 09.  
Heading 355.21  
\$@MID@\$: 101  
Date: Tue, 16 Sep 2008 19:16:52 +0000

Record time: 2008-09-16T19:15  
Author: ADB  
Type: Start of Line  
Subject: SOL Recording Seismic Data  
Attachment:  
Encoding: ELCode

---

Beginning to record seismic data. SOL STEEP 09.  
\$@MID@\$: 102  
Date: Tue, 16 Sep 2008 19:31:49 +0000  
Record time: 2008-09-16T19:30  
Author: ADB  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 00.765  
W 142 55.139  
Speed 5.3 kts Depth 3369 m  
Tension 3412 lbs Heading 347.97  
\$@MID@\$: 103  
Date: Tue, 16 Sep 2008 19:37:55 +0000  
Record time: 2008-09-16T19:36  
Author: ADB  
Type: MMO sighting  
Subject: Power Down  
Attachment:  
Encoding: ELCode

---

Power down due to biological event. Heading 348.  
Still shooting one gun. 783-785 shots missed.  
\$@MID@\$: 104  
Date: Tue, 16 Sep 2008 19:59:39 +0000  
Record time: 2008-09-16T19:54  
Author: rsr  
Type: Ramp up  
Subject: Ramp up  
Attachment:  
Encoding: ELCode

---

Ramp up begin. Missed shots 836-839  
\$@MID@\$: 105  
Date: Tue, 16 Sep 2008 20:00:35 +0000  
Record time: 2008-09-16T19:59  
Author: rsr



Type: Comment/Event  
Subject: Missed shots  
Attachment:  
Encoding: ELCode

---

Missed shots 842-845  
\$@MID@\$: 106  
Date: Tue, 16 Sep 2008 20:01:55 +0000  
Record time: 2008-09-16T20:01  
Author: BPH  
Type: Comment/Event  
Subject: Watch relief  
Attachment:  
Encoding: ELCode

---

2000. Watch relief. Ben Hooks and Ryan Elmore on station.  
\$@MID@\$: 107  
Date: Tue, 16 Sep 2008 20:05:12 +0000  
Record time: 2008-09-16T20:04  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2000. Course update.  
N 59 03.525  
W 142 56.283  
Speed 4.7 kts  
Depth 3428.38  
Heading 350.20  
Tension 3277.6  
\$@MID@\$: 108  
Date: Tue, 16 Sep 2008 20:18:54 +0000  
Record time: 2008-09-16T20:18  
Author: BPH  
Type: shot fired  
Subject: First good shot  
Attachment:  
Encoding: ELCode

---

2017. End ramp up. First good shot - #911  
\$@MID@\$: 109  
Date: Tue, 16 Sep 2008 20:31:55 +0000  
Record time: 2008-09-16T20:30  
Author: BPH

Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2030. Course update  
N 59 05.715  
W 142 57.143  
Speed 4.9 kts Heading 345.84  
Depth 3387 Tension 3390  
\$@MID@\$: 110  
Date: Tue, 16 Sep 2008 20:49:59 +0000  
Record time: 2008-09-16T20:48  
Author: BPH  
Type: Manuvering  
Subject: Speed request  
Attachment:  
Encoding: ELCode

---

2048. Request speed change to 4.5 kts STW.  
\$@MID@\$: 111  
Date: Tue, 16 Sep 2008 21:02:23 +0000  
Record time: 2008-09-16T21:00  
Author: BPH  
Type: Manuvering  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

2100. Course Update  
N 59 08.188  
W 142 58.192  
Heading 344 Speed 4.6 kts  
Depth 3368 Tension 3785  
\$@MID@\$: 112  
Date: Tue, 16 Sep 2008 21:30:56 +0000  
Record time: 2008-09-16T21:29  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2130. Course Update  
N 59 10.586  
W 142 59.191

Heading 344 Speed 4.6 kts  
Depth 3299 Tension 3965  
\$@MID@\$: 113  
Date: Tue, 16 Sep 2008 22:02:24 +0000  
Record time: 2008-09-16T22:00  
Author: cre  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2200 hrs Course Update  
N 59 13.001  
W 142 00.203  
Heading 346 Speed 4.27 kts  
Depth 2962 Tension 3636  
\$@MID@\$: 114  
Date: Tue, 16 Sep 2008 22:33:44 +0000  
Record time: 2008-09-16T22:32  
Author: cre  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2230 hrs Course Update  
N 59 15.461  
W 142 01.222  
Heading 347 Speed 4.22 kts  
Depth 2925 Tension 3613  
\$@MID@\$: 115  
Date: Tue, 16 Sep 2008 23:01:28 +0000  
Record time: 2008-09-16T23:00  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2300. Course update  
N 59 17.636  
W 143 02.127  
Heading 349.8 Speed 4.37 kts  
Depth 2744 m Tension 3554 lbs  
\$@MID@\$: 116  
Date: Tue, 16 Sep 2008 23:31:28 +0000

Record time: 2008-09-16T23:30  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2330. Course Update  
N 59 19.972  
W 143 02.094  
Heading 348 Speed 4.14 kts  
Depth 2389 m Tension 3315  
\$@MID@\$: 117  
Date: Tue, 16 Sep 2008 23:56:56 +0000  
Record time: 2008-09-16T23:56  
Author: SC  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

---

Seth Campbell and Lindsay Worthington on duty.  
\$@MID@\$: 118  
Date: Wed, 17 Sep 2008 00:01:16 +0000  
Record time: 2008-09-16T23:59  
Author: SC  
Type: course change  
Subject: Midnight Position  
Attachment:  
Encoding: ELCode

---

N 59 22 13857  
W 143 04 00672  
Heading 348.36  
Speed 4.13  
Depth 1378.07  
Streamer Tension 2979  
\$@MID@\$: 119  
Date: Wed, 17 Sep 2008 00:39:58 +0000  
Record time: 2008-09-17T00:37  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 24 82808  
W 143 05 13111  
Heading 351.26  
Speed 4.54  
Depth 1322  
Tension 3414  
\$@MID@\$: 120  
Date: Wed, 17 Sep 2008 00:42:26 +0000  
Record time: 2008-09-17T00:35  
Author: SC  
Type: Bird  
Subject: Adjust Depths  
Attachment:  
Encoding: ELCode

=====

Birds 8-10 and 17-20 moved above set depth zone to between 8 and 6 meters. Depths reset to 10 m to drop birds back down and then 9 m. Birds now repositioned properly. Wing angles were all 15.1 or 15 during shallow depth.

\$@MID@\$: 121  
Date: Wed, 17 Sep 2008 01:03:50 +0000  
Record time: 2008-09-17T00:42  
Author: SC  
Type: Reel switch  
Subject: Changed Data reel  
Attachment:  
Encoding: ELCode

=====

Change to reel 2 for data collection. First good shot is 967.

\$@MID@\$: 122  
Date: Wed, 17 Sep 2008 01:14:04 +0000  
Record time: 2008-09-17T01:10  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====

N 59 27 40602  
W 143 06 21056  
Speed 4.57  
Heading 351.93  
Depth 977.8  
Tension 3942  
Shot # 1064  
\$@MID@\$: 123

Date: Wed, 17 Sep 2008 01:41:52 +0000  
Record time: 2008-09-17T01:38  
Author: lw  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

---

N 59 29.4235  
W 143 07.053  
speed 4.3 heading 351.92  
tension 3807  
shot 1137  
\$@MID@\$: 124  
Date: Wed, 17 Sep 2008 02:04:09 +0000  
Record time: 2008-09-17T02:00  
Author: lw  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

---

N 59 30.928  
W 143 07.685  
STW 4.7 heading 354.8  
depth 653.24 tension 3770.4  
shot 1194  
\$@MID@\$: 125  
Date: Wed, 17 Sep 2008 02:34:45 +0000  
Record time: 2008-09-17T02:33  
Author: lw  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

---

course update. 0230 hrs.  
N 59 32.959  
W 143 08.541  
STW 4.38 heading 356.7  
depth 475.95 tension 3441.9  
shot 1271  
\$@MID@\$: 126  
Date: Wed, 17 Sep 2008 03:10:34 +0000  
Record time: 2008-09-17T03:09  
Author: SC

Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 35 16170  
W 143 09 46336  
Heading 356.54  
Speed 4.25  
Depth 293  
Tension 3031  
Shot # 1356  
\$@MID@\$: 127  
Date: Wed, 17 Sep 2008 03:30:17 +0000  
Record time: 2008-09-17T03:30  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 36 54804  
W 143 10 07313  
Heading 5.40  
Depth 268  
Speed 4.14  
Tension 3322  
\$@MID@\$: 128  
Date: Wed, 17 Sep 2008 03:55:55 +0000  
Record time: 2008-09-17T03:54  
Author: SC  
Type: Equipment Problem  
Subject: No Fire Error  
Attachment:  
Encoding: ELCode

---

No fire errors received for gun S1G04 on string 1 air guns between shots 2137 and 2154. Changed S1G04 to S1G05 with no further errors.

\$@MID@\$: 129  
Date: Wed, 17 Sep 2008 04:01:36 +0000  
Record time: 2008-09-17T04:00  
Author: rsr  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

=====

Adam Barker and Bobby Reece relieved the watch.

\$@MID@\$: 130

Date: Wed, 17 Sep 2008 06:08:16 +0000

Record time: 2008-09-17T06:04

Author: ADB

Type: End of Line

Subject: End of Line STEEP 09

Attachment:

Encoding: ELCode

=====

N 59 46.862

W 143 14.397

Heading 12.95 Depth 244.53

Speed 3.9

Reel 02 Last File 1796

\$@MID@\$: 131

Date: Wed, 17 Sep 2008 06:46:03 +0000

Record time: 2008-09-17T06:41

Author: rsr

Type: Comment/Event

Subject: CIU problem

Attachment:

Encoding: ELCode

=====

CIU not communicating with data server. System reset attempted. Last shot fired at 06:41.

\$@MID@\$: 132

Date: Wed, 17 Sep 2008 06:53:20 +0000

Record time: 2008-09-17T06:46

Author: rsr

Type: Comment/Event

Subject: Firing Resumed

Attachment:

Encoding: ELCode

=====

Program restored. Shot fired.

\$@MID@\$: 133

Date: Wed, 17 Sep 2008 06:54:36 +0000

Record time: 2008-09-17T06:53

Author: rsr

Type: Start of Line

Subject: SOL STEEP 15

Attachment:

Encoding: ELCode

=====



Start of Line. STEEP 15.  
N 59 49.850  
W 143 17.176  
Depth 218.09m  
Heading 291  
Speed 4.4 kts  
\$@MID@\$: 134  
Date: Wed, 17 Sep 2008 07:34:11 +0000  
Record time: 2008-09-17T07:33  
Author: rsr  
Type: Bird  
Subject: Bird Depth Change  
Attachment:  
Encoding: ELCode

=====

Returning birds to 9 m  
\$@MID@\$: 135  
Date: Wed, 17 Sep 2008 07:55:53 +0000  
Record time: 2008-09-17T07:55  
Author: BPH  
Type: Comment/Event  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

=====

800. Watch relief. Ryan Elmore and Ben Hooks on station.  
\$@MID@\$: 136  
Date: Wed, 17 Sep 2008 07:59:11 +0000  
Record time: 2008-09-17T07:58  
Author: BPH  
Type: Manuvering  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====

0757. Course update.  
N 59 50.002  
W 143 28.206  
Heading 256 Depth 297  
Speed 4.32 Tension 3591  
\$@MID@\$: 137  
Date: Wed, 17 Sep 2008 08:30:32 +0000  
Record time: 2008-09-17T08:29  
Author: BPH  
Type: Manuvering  
Subject: Course update

Attachment:  
Encoding: ELCode

=====

0829. Course update.  
N 5949.969  
W 143 33.519  
Heading 251 Speed 4.36  
Depth 300 Tension 3733  
\$@MID@\$: 138  
Date: Wed, 17 Sep 2008 08:48:10 +0000  
Record time: 2008-09-17T08:46  
Author: BPH  
Type: Speed request  
Subject: Speed request  
Attachment:  
Encoding: ELCode

=====

0846. Speed increase to 4.4 to 4.5 kts STW.  
\$@MID@\$: 139  
Date: Wed, 17 Sep 2008 09:00:45 +0000  
Record time: 2008-09-17T08:59  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

=====

0900 Course update.  
N 59 49.927  
W 143 38.267  
Speed 4.35 STW Heading 257  
Depth 290 m Tension 3584 lbs  
\$@MID@\$: 140  
Date: Wed, 17 Sep 2008 09:20:39 +0000  
Record time: 2008-09-17T09:19  
Author: BPH  
Type: Speed request  
Subject: Speed request  
Attachment:  
Encoding: ELCode

=====

0920 Decrease speed request to 4.3 kts STW.  
Tension spikes above 4000  
\$@MID@\$: 141  
Date: Wed, 17 Sep 2008 09:31:14 +0000  
Record time: 2008-09-17T09:29

Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

0930 Course update  
N 59 49.892  
W 143 42.936  
Speed 4.33 kts STW Heading 264  
Depth 218m Tension 3576 lbs  
\$@MID@\$: 142  
Date: Wed, 17 Sep 2008 09:42:56 +0000  
Record time: 2008-09-17T09:41  
Author: BPH  
Type: Speed request  
Subject: Speed request  
Attachment:  
Encoding: ELCode

---

0942 Speed request to reduce to 4.1 kts STW.  
Tension climbing.  
\$@MID@\$: 143  
Date: Wed, 17 Sep 2008 10:00:22 +0000  
Record time: 2008-09-17T09:59  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

1000 course update.  
N 59 49.856  
W 143 47.616  
Speed 3.97 kt STW Heading 268  
Depth 148 m Tension 3979 lbs.  
\$@MID@\$: 144  
Date: Wed, 17 Sep 2008 10:01:38 +0000  
Record time: 2008-09-17T10:01  
Author: BPH  
Type: Speed request  
Subject: Speed request  
Attachment:  
Encoding: ELCode

---

1001 Speed decrease to 3.9 kts STW

\$@MID@\$: 145

Date: Wed, 17 Sep 2008 10:11:18 +0000

Record time: 2008-09-17T10:04

Author: BPH

Type: End of Line

Subject: EOL STEEP 15

Attachment:

Encoding: ELCode

---

1004 EOL STEEP 15

N 59 49.851

W 143 48.456

Depth 143 Heading 266

Speed 3.7

Wind 20 kts (estimated)

Sea state 6-9 feet (estimated)

\$@MID@\$: 146

Date: Wed, 17 Sep 2008 10:12:51 +0000

Record time: 2008-09-17T10:05

Author: BPH

Type: Manuvering

Subject: Start turn

Attachment:

Encoding: ELCode

---

1005 Start turn into STEEP 13

N 59 49.851

W 143 48.456

Heading 266

Speed 3.7 kts STW

\$@MID@\$: 147

Date: Wed, 17 Sep 2008 10:27:28 +0000

Record time: 2008-09-17T10:16

Author: BPH

Type: Start of Line

Subject: SOL STEEP 13

Attachment:

Encoding: ELCode

---

1016 SOL STEEP 13

N 59 49.591

W 143 50.196

Depth 133 Heading 221

Speed 3.51

First shot 1007

Wind 20 kts. Sea state 6-9 feet

\$@MID@\$: 148  
Date: Wed, 17 Sep 2008 10:29:10 +0000  
Record time: 2008-09-17T10:33  
Author: BPH  
Type: Manuvering  
Subject: End of turn  
Attachment:  
Encoding: ELCode

---

1033 end of turn.  
N 59 48.556  
W 143 51.318  
heading 194  
\$@MID@\$: 149  
Date: Wed, 17 Sep 2008 10:30:12 +0000  
Record time: 2008-09-17T10:29  
Author: BPH  
Type: Speed request  
Subject: Speed request  
Attachment:  
Encoding: ELCode

---

1022 Speed increase request to 4.3 kts STW  
\$@MID@\$: 150  
Date: Wed, 17 Sep 2008 10:32:45 +0000  
Record time: 2008-09-17T10:30  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

1030 Course update  
N 59 48.747  
W 143 51.201  
heading 191 Speed 4.22 kts STW  
Depth 131 m Tension 3927  
\$@MID@\$: 151  
Date: Wed, 17 Sep 2008 10:50:46 +0000  
Record time: 2008-09-17T10:47  
Author: BPH  
Type: Bird  
Subject: Bird depth  
Attachment:  
Encoding: ELCode

---

1047 Bird depth assigned 9m  
N 59 47.553  
W 143 51.954  
\$@MID@\$: 152  
Date: Wed, 17 Sep 2008 10:59:20 +0000  
Record time: 2008-09-17T10:59  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

1100 Course update.  
N 59 46.707  
W 143 52.478  
Heading 197 Speed 4.37 kts STW  
Depth 3984 m Tension 3979 lbs  
\$@MID@\$: 153  
Date: Wed, 17 Sep 2008 11:07:36 +0000  
Record time: 2008-09-17T11:07  
Author: BPH  
Type: Bird  
Subject: Bird depth  
Attachment:  
Encoding: ELCode

---

1101 Bird depth assigned to 12m to level out streamer  
\$@MID@\$: 154  
Date: Wed, 17 Sep 2008 11:08:40 +0000  
Record time: 2008-09-17T11:08  
Author: BPH  
Type: Speed request  
Subject: Speed request  
Attachment:  
Encoding: ELCode

---

1108 Speed request to 4.4 kts STW to level out streamer.  
\$@MID@\$: 155  
Date: Wed, 17 Sep 2008 11:31:38 +0000  
Record time: 2008-09-17T11:30  
Author: BPH  
Type: Manuvering  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

1130 Course update.  
N 59 44.562  
W 143 53.830  
Heading 193 Speed 4.71 kts STW  
Depth n/a Tension 3576 lbs  
\$@MID@\$: 156  
Date: Wed, 17 Sep 2008 11:38:37 +0000  
Record time: 2008-09-17T11:38  
Author: BPH  
Type: Speed request  
Subject: Speed request  
Attachment:  
Encoding: ELCode

---

1138 reduce speed to 4 kts STW.  
\$@MID@\$: 157  
Date: Wed, 17 Sep 2008 11:52:02 +0000  
Record time: 2008-09-17T11:51  
Author: BPH  
Type: Speed request  
Subject: Speed increase  
Attachment:  
Encoding: ELCode

---

1150 speed request, increase to 4.2 kts STW.  
\$@MID@\$: 158  
Date: Wed, 17 Sep 2008 11:59:11 +0000  
Record time: 2008-09-17T11:58  
Author: BPH  
Type: Bird  
Subject: Birds to depth  
Attachment:  
Encoding: ELCode

---

1159 All birds returned to 9 m depth and streamer flattened out.  
\$@MID@\$: 159  
Date: Wed, 17 Sep 2008 12:33:19 +0000  
Record time: 2008-09-17T12:32  
Author: RE  
Type: Speed request  
Subject: STW Adjusted to 4.1 kts  
Attachment:  
Encoding: ELCode

---

Speed adjusted to 4.1 STW to correct birds  
\$@MID@\$: 160

Date: Wed, 17 Sep 2008 12:35:22 +0000  
Record time: 2008-09-17T12:00  
Author: SC  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

=====

Shift Change Lindsay Worthington and Seth Campbell on Duty  
\$@MID@\$: 161

Date: Wed, 17 Sep 2008 12:50:32 +0000  
Record time: 2008-09-17T12:30  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====

N 59 40 07146  
W 143 56 67343  
Heading 194.76  
Speed 4.59  
Depth 3175  
Tension 3994  
\$@MID@\$: 162  
Date: Wed, 17 Sep 2008 13:11:54 +0000  
Record time: 2008-09-17T13:10  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====

N 59 37 28500  
W 143 58 41191  
Heading 202.40  
Speed 4.04  
Depth 3166  
Tension 3501  
\$@MID@\$: 163  
Date: Wed, 17 Sep 2008 13:31:54 +0000  
Record time: 2008-09-17T13:30  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:



Encoding: ELCode

---

N 59 35 86317  
W 143 59 31751  
Heading 199.45  
Speed 4.54  
Depth 432 (?) possible wrong depth?  
Tension 4024  
\$@MID@\$: 164  
Date: Wed, 17 Sep 2008 14:02:21 +0000  
Record time: 2008-09-17T14:01  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 33 45455  
W 144 00 82939  
Heading 197.29  
Speed 3.81  
Depth 1221  
Tension 2971  
\$@MID@\$: 165  
Date: Wed, 17 Sep 2008 14:36:19 +0000  
Record time: 2008-09-17T14:35  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 31 11628  
W 144 02 30002  
Heading 197.02  
Speed 4.65  
Depth 1168  
Tension 4248  
\$@MID@\$: 166  
Date: Wed, 17 Sep 2008 15:01:14 +0000  
Record time: 2008-09-17T15:00  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====  
N 59 29 39999  
W 144 03 38620  
Heading 198.08  
Speed 4.63  
Depth 1104  
Tension 4061  
\$@MID@\$: 167  
Date: Wed, 17 Sep 2008 16:01:13 +0000  
Record time: 2008-09-17T16:00  
Author: ADB  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode  
=====

Adam Barker and Bobby Reece on duty.  
\$@MID@\$: 168  
Date: Wed, 17 Sep 2008 18:55:58 +0000  
Record time: 2008-09-17T18:54  
Author: ADB  
Type: Air Guns  
Subject: Possible airleak  
Attachment:  
Encoding: ELCode  
=====

MMO Tower called to report a possible airleak in string 2. Appropriate personnel notified.  
\$@MID@\$: 169  
Date: Wed, 17 Sep 2008 19:49:06 +0000  
Record time: 2008-09-17T19:48  
Author: BPH  
Type: Comment/Event  
Subject: Watch relief  
Attachment:  
Encoding: ELCode  
=====

948 Watch relief. Ben Hooks and Ryan Elmore on station  
\$@MID@\$: 170  
Date: Wed, 17 Sep 2008 20:00:18 +0000  
Record time: 2008-09-17T19:59  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

=====

2000 Course update.  
N 59 09.007  
W 144 16.104  
Speed 4.26 kts STW  
Heading 203  
Depth 4020 m  
Tension 3800 lbs  
\$@MID@\$: 171  
Date: Wed, 17 Sep 2008 20:30:14 +0000  
Record time: 2008-09-17T20:29  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

=====

2030 course update.  
N 59 06.869  
W 144 17.432  
Speed 4.22 kts STW. Heading 202.75  
Depth 4010 Tension 3188 lbs.  
\$@MID@\$: 172  
Date: Wed, 17 Sep 2008 21:00:20 +0000  
Record time: 2008-09-17T20:59  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

=====

2100 Course update.  
N 59 04.713  
W 144 18.772  
Heading 198 Speed 3.97 kts STW  
Depth 4165 Tension 3464 lbs.  
\$@MID@\$: 173  
Date: Wed, 17 Sep 2008 21:30:47 +0000  
Record time: 2008-09-17T21:29  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

=====

2130 course update

N 59 02.489  
W 144 20.162  
Heading 195 Speed 4.28 kts STW  
Depth 3856 m Tension 3927  
\$@MID@\$: 174  
Date: Wed, 17 Sep 2008 22:00:22 +0000  
Record time: 2008-09-17T21:59  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2200 Course update.  
N 59 0.306  
W 144 21.513  
Speed 4.40 kts STW Heading 194  
Depth 3815m Tension 2897lbs  
\$@MID@\$: 175  
Date: Wed, 17 Sep 2008 22:30:41 +0000  
Record time: 2008-09-17T22:29  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2230 course update.  
N 58 58.047  
W 144 22.917  
Speed 3.97 kts STW Heading 189  
Depth 3774m Tension 3307lbs  
\$@MID@\$: 176  
Date: Wed, 17 Sep 2008 22:59:57 +0000  
Record time: 2008-09-17T22:58  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2300 course update.  
N 58 56.079  
W 144 24.136  
Heading 187 Speed 3.96 kts STW  
Depth 3761m Tension 3285lbs

\$@MID@\$: 177  
Date: Wed, 17 Sep 2008 23:32:36 +0000  
Record time: 2008-09-17T23:30  
Author: cre  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2330 course update.  
N 58 53.901  
W 144 25.480  
Heading 186 Speed 4.18 kts STW  
Depth 3740m Tension 3135lbs  
\$@MID@\$: 178  
Date: Thu, 18 Sep 2008 00:04:01 +0000  
Record time: 2008-09-18T00:01  
Author: cre  
Type: MIDNIGHT  
Subject: Midnight position  
Attachment:  
Encoding: ELCode

---

N 58 51.695  
W 144 26.826  
depth 3724 m tension 4128 lbs  
speed 4.67 kts heading 191  
\$@MID@\$: 179  
Date: Thu, 18 Sep 2008 00:16:08 +0000  
Record time: 2008-09-18T00:15  
Author: lw  
Type: Watch Relief  
Subject: watch relief  
Attachment:  
Encoding: ELCode

---

Lindsay Worthington and Seth Campbell on station.  
\$@MID@\$: 180  
Date: Thu, 18 Sep 2008 00:40:57 +0000  
Record time: 2008-09-18T00:38  
Author: lw  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

---

N 58 49.287  
W 144 28.313  
depth 3712.98 speed 4.08  
tension 3165.6  
shot # 3363  
\$@MID@\$: 181  
Date: Thu, 18 Sep 2008 01:08:58 +0000  
Record time: 2008-09-18T01:06  
Author: lw  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

---

N 58 47.429  
W 144 29.453  
depth 3697.2 speed 4.74 kts  
tension 4524.4 heading 192.7  
shot 3437  
\$@MID@\$: 182  
Date: Thu, 18 Sep 2008 01:31:15 +0000  
Record time: 2008-09-18T01:30  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 58 45 77599  
W 144 30 46156  
Heading 193.63  
Speed 4.29  
Depth 3693  
Tension 3740  
\$@MID@\$: 183  
Date: Thu, 18 Sep 2008 02:32:00 +0000  
Record time: 2008-09-18T02:30  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 58 41 53493  
W 144 33 07698  
Heading 188.30

Speed 4.15  
Depth 3738  
Tension 3367  
\$@MID@\$: 184  
Date: Thu, 18 Sep 2008 02:55:24 +0000  
Record time: 2008-09-18T02:53  
Author: SC  
Type: End of Line  
Subject: End of Line  
Attachment:  
Encoding: ELCode

---

End of STEEP 13 shot #3727  
N 58 39 58.094  
W 144 34 03.538  
Heading 191.09  
Speed 4.41  
Depth 3755  
Tension 3800  
\$@MID@\$: 185  
Date: Thu, 18 Sep 2008 02:59:46 +0000  
Record time: 2008-09-18T02:59  
Author: SC  
Type: Air Guns  
Subject: Pulling in Gun String  
Attachment:  
Encoding: ELCode

---

Pulling in gun string # 2 to repair possible leaks  
\$@MID@\$: 186  
Date: Thu, 18 Sep 2008 03:10:22 +0000  
Record time: 2008-09-18T03:09  
Author: SC  
Type: Air Guns  
Subject: String 2 onboard deck  
Attachment:  
Encoding: ELCode

---

String 2 on board deck for repairs  
\$@MID@\$: 187  
Date: Thu, 18 Sep 2008 03:36:31 +0000  
Record time: 2008-09-18T03:35  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:

Encoding: ELCode

---

N 58 36 74600  
W 144 35 98459  
Heading 192.9  
Speed 4.34  
Depth 3766  
Tension 3979  
\$@MID@\$: 188  
Date: Thu, 18 Sep 2008 04:21:07 +0000  
Record time: 2008-09-18T04:00  
Author: rsr  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

---

Watch relieved by Bobby Reece and Adam Barker  
\$@MID@\$: 189  
Date: Thu, 18 Sep 2008 05:31:21 +0000  
Record time: 2008-09-18T05:30  
Author: rsr  
Type: Air Guns  
Subject: guns deployed  
Attachment:  
Encoding: ELCode

---

String 2 back in the water and firing.  
\$@MID@\$: 190  
Date: Thu, 18 Sep 2008 07:02:02 +0000  
Record time: 2008-09-18T06:52  
Author: rsr  
Type: Start of Line  
Subject: SOL STEEP 07  
Attachment:  
Encoding: ELCode

---

Start of Line. STEEP 07.  
N 58 42.7756  
W 144 37.0221  
Depth 3704  
Heading 054  
\$@MID@\$: 191  
Date: Thu, 18 Sep 2008 07:50:58 +0000  
Record time: 2008-09-18T07:50  
Author: BPH



Type: Comment/Event  
Subject: Watch relief  
Attachment:  
Encoding: ELCode

---

800 Watch relief.  
Ben Hooks and Ryan Elmore on watch.  
\$@MID@\$: 192  
Date: Thu, 18 Sep 2008 07:59:48 +0000  
Record time: 2008-09-18T07:58  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

800 Course update.  
N 58 45.459  
W 144 31.818  
Heading 57.06 Seed 4.36 kts STW  
Depth 3706m Tension 3150lbs  
\$@MID@\$: 193  
Date: Thu, 18 Sep 2008 08:10:53 +0000  
Record time: 2008-09-18T08:09  
Author: BPH  
Type: Equipment Problem  
Subject: No fire error  
Attachment:  
Encoding: ELCode

---

752 No fire error, entire string.  
All guns string 03, no fire error.  
Shot point 1048  
\$@MID@\$: 194  
Date: Thu, 18 Sep 2008 08:33:19 +0000  
Record time: 2008-09-18T08:30  
Author: BPH  
Type: Manuvering  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

0830 Course Update  
N 58 46.650  
W 144 29.470  
Heading 54 Speed 4.41 kts STW.

Depth 3692m Tension 3860lbs.  
\$@MID@\$: 195  
Date: Thu, 18 Sep 2008 08:34:09 +0000  
Record time: 2008-09-18T08:33  
Author: BPH  
Type: Speed request  
Subject: Speed increase.  
Attachment:  
Encoding: ELCode

---

0833 Speed request increase to 4.5 kts STW.  
\$@MID@\$: 196  
Date: Thu, 18 Sep 2008 08:57:40 +0000  
Record time: 2008-09-18T08:57  
Author: BPH  
Type: Manuvering  
Subject: Course Update.  
Attachment:  
Encoding: ELCode

---

0900 Course update.  
N 58 47.725  
W 144 27.370  
Heading 56 Speed 4.44 kts STW.  
Depth 3697m Tension 3807 lbs.  
\$@MID@\$: 197  
Date: Thu, 18 Sep 2008 09:24:36 +0000  
Record time: 2008-09-18T09:06  
Author: BPH  
Type: Equipment Problem  
Subject: S1G12 Off  
Attachment:  
Encoding: ELCode

---

0906 S1G12 turned off due to consecutive no fires.  
\$@MID@\$: 198  
Date: Thu, 18 Sep 2008 09:27:39 +0000  
Record time: 2008-09-18T09:30  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

0930. Course update.  
N 58 48.884.

W 144 25.102.  
Speed 4.50 kts STW. Heading 57.  
Depth 3710m. Tension 3666lbs.  
\$@MID@\$: 199  
Date: Thu, 18 Sep 2008 09:55:47 +0000  
Record time: 2008-09-18T09:54  
Author: BPH  
Type: Speed request  
Subject: Speed request  
Attachment:  
Encoding: ELCode

=====

0955 Speed request. Decrease to 4.4 kts STW.  
\$@MID@\$: 200  
Date: Thu, 18 Sep 2008 10:00:18 +0000  
Record time: 2008-09-18T09:59  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

=====

1000. Course update  
N 58 50.214  
W 144 22.501  
Heading 63 Speed 4.22 kts STW.  
Depth 3716m Tension 3994lbs  
\$@MID@\$: 201  
Date: Thu, 18 Sep 2008 10:27:28 +0000  
Record time: 2008-09-18T10:26  
Author: BPH  
Type: Start of Line  
Subject: Speed decrease  
Attachment:  
Encoding: ELCode

=====

1026 Speed request decrease to 4.1 Kts STW.  
\$@MID@\$: 202  
Date: Thu, 18 Sep 2008 10:30:37 +0000  
Record time: 2008-09-18T10:29  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

=====

1030 Course update.  
N 58 51.453  
W 144 20.078  
Heading 67 Speed 4.12 Kts STW.  
Depth 3729m Tension 3285lbs.  
\$@MID@\$: 203  
Date: Thu, 18 Sep 2008 10:59:48 +0000  
Record time: 2008-09-18T11:00  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

1100. Course update.  
N 58 52.606  
W 144 17.816  
Heading 65. Speed 4.34 kts STW.  
Depth 3728m. Tension 3845lbs.  
\$@MID@\$: 204  
Date: Thu, 18 Sep 2008 11:35:18 +0000  
Record time: 2008-09-18T11:34  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

1130 Course update  
N 58 54.060  
W 144 14.955  
Heading 71 Speed 4.26 kts STW.  
Depth 3729m Tension 3889lbs.  
\$@MID@\$: 205  
Date: Thu, 18 Sep 2008 11:43:17 +0000  
Record time: 2008-09-18T11:42  
Author: BPH  
Type: Equipment Problem  
Subject: String no fire error  
Attachment:  
Encoding: ELCode

---

1138 String 03 - all guns - no fire error  
shot point 1526  
\$@MID@\$: 206  
Date: Thu, 18 Sep 2008 11:56:38 +0000

Record time: 2008-09-18T11:55  
Author: BPH  
Type: Manuvering  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

1155 Course update.  
N 58 54.962  
W 144 13.166  
Heading 65 Speed 4.54 kts STW.  
Depth 3727m Tension 3703lbs.  
\$@MID@\$: 207  
Date: Thu, 18 Sep 2008 12:01:04 +0000  
Record time: 2008-09-18T12:00  
Author: lw  
Type: Watch Relief  
Subject: watch relief  
Attachment:  
Encoding: ELCode

---

watch relieved by lindsay worthington and seth campbell.  
\$@MID@\$: 208  
Date: Thu, 18 Sep 2008 12:07:43 +0000  
Record time: 2008-09-18T08:09  
Author: lw  
Type: Equipment Problem  
Subject: No fire error  
Attachment:  
Encoding: ELCode

---

1204 No fire error, entire string.  
All guns string 03, no fire error.  
Shot point 1582  
\$@MID@\$: 209  
Date: Thu, 18 Sep 2008 12:09:39 +0000  
Record time: 2008-09-18T08:09  
Author: lw  
Type: Equipment Problem  
Subject: No fire error  
Attachment:  
Encoding: ELCode

---

1209 No fire error, gun 28.

Shot point 1595

\$@MID@\$: 210

Date: Thu, 18 Sep 2008 12:16:12 +0000

Record time: 2008-09-18T12:15

Author: lw

Type: Speed request

Subject: speed decrease

Attachment:

Encoding: ELCode

---

speed decrease to 4.0 kts

\$@MID@\$: 211

Date: Thu, 18 Sep 2008 12:32:47 +0000

Record time: 2008-09-18T12:31

Author: lw

Type: Course Update

Subject: course update

Attachment:

Encoding: ELCode

---

N 58 56.61743

W 144 09.92174

heading 73.5 speed 4.23

depth 3724 tension 2941

SP 1653

\$@MID@\$: 212

Date: Thu, 18 Sep 2008 13:03:51 +0000

Record time: 2008-09-18T13:02

Author: lw

Type: Course Update

Subject: course update

Attachment:

Encoding: ELCode

---

N 58 57.991

W 144 07.182

speed 4.18 heading 64.52

depth 3717 tension 3740.5

shot 1720

\$@MID@\$: 213

Date: Thu, 18 Sep 2008 13:30:57 +0000

Record time: 2008-09-18T13:30

Author: lw

Type: Speed request

Subject: speed increase

Attachment:

Encoding: ELCode

=====

speed increase to 4.1 kts  
\$@MID@\$: 214  
Date: Thu, 18 Sep 2008 13:33:56 +0000  
Record time: 2008-09-18T13:33  
Author: lw  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

=====

N 58 59.402  
W 144 04.391  
speed 4.57 heading 66.81  
depth 3707 tension 4143.7  
shot 1799  
\$@MID@\$: 215  
Date: Thu, 18 Sep 2008 14:02:53 +0000  
Record time: 2008-09-18T14:01  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====

N 59 00 81154  
W 144 01 61442  
Heading 67.47  
Speed 4.13  
Depth 3760  
Tension 3755  
\$@MID@\$: 216  
Date: Thu, 18 Sep 2008 14:17:00 +0000  
Record time: 2008-09-18T14:14  
Author: lw  
Type: Equipment Problem  
Subject: No fire error  
Attachment:  
Encoding: ELCode

=====

1414 No fire error, entire string.  
All guns string 03, no fire error.  
Shot point 1910  
\$@MID@\$: 217  
Date: Thu, 18 Sep 2008 14:40:02 +0000  
Record time: 2008-09-18T14:35

Author: SC  
Type: Pam and Maggie  
Subject: Magnetometer  
Attachment:  
Encoding: ELCode

---

Maggie off line due to tangle in one of air gun strings (poor weather conditions)

\$@MID@\$: 218

Date: Thu, 18 Sep 2008 14:40:51 +0000

Record time: 2008-09-18T14:38

Author: SC

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

---

N 59 02 71227

W 143 57 85710

Heading 64.03

Speed 4.23

Depth 3969

Tension 3912

\$@MID@\$: 219

Date: Thu, 18 Sep 2008 14:49:33 +0000

Record time: 2008-09-18T14:45

Author: SC

Type: Air Guns

Subject: Air Gun Power Down

Attachment:

Encoding: ELCode

---

String 2 air guns powered off to free magnetometer unit from string; File 1075 SP 1995

\$@MID@\$: 220

Date: Thu, 18 Sep 2008 15:00:00 +0000

Record time: 2008-09-18T14:58

Author: lw

Type: Air Guns

Subject: Air Gun Power Up

Attachment:

Encoding: ELCode

---

String 2 air guns powered on after maggie on board. File 1108 SP 2029

\$@MID@\$: 221

Date: Thu, 18 Sep 2008 15:01:45 +0000



Record time: 2008-09-18T15:00

Author: lw

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

---

N 59 03 82816

W 143 55 63230

Heading 59.42

Speed 4.65

Depth 3975.57

Tension 3942.1

Shot 2038

\$@MID@\$: 222

Date: Thu, 18 Sep 2008 15:47:44 +0000

Record time: 2008-09-18T15:46

Author: lw

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

---

N 59 06 37543

W 143 50 59000

Heading 54.98

Speed 4.34

Depth 3983.94

Tension 3815.2

Shot 2172

\$@MID@\$: 223

Date: Thu, 18 Sep 2008 15:54:02 +0000

Record time: 2008-09-18T15:53

Author: lw

Type: Bird

Subject: Birds 16-20 assigned to 11m

Attachment:

Encoding: ELCode

---

Birds 16-20 assigned to 11m

\$@MID@\$: 224

Date: Thu, 18 Sep 2008 15:55:25 +0000

Record time: 2008-09-18T15:54

Author: lw

Type: Bird

Subject: Bird 19 jumping up to 3m

Attachment:  
Encoding: ELCode

=====  
Bird 19 jumping to 3 m  
tension: 3897  
\$@MID@\$: 225  
Date: Thu, 18 Sep 2008 15:56:41 +0000  
Record time: 2008-09-18T15:55  
Author: lw  
Type: Comment/Event  
Subject: cable set to 10 m  
Attachment:  
Encoding: ELCode

=====  
birds 25-27 assigned to 13 m  
birds 13-15 assigned to 14 m

due to weather/sea state  
\$@MID@\$: 226  
Date: Thu, 18 Sep 2008 15:57:55 +0000  
Record time: 2008-09-18T15:57  
Author: lw  
Type: Bird  
Subject: birds 19-20 near surface  
Attachment:  
Encoding: ELCode

=====  
weather/waves: birds 19-20 near surface  
\$@MID@\$: 227  
Date: Thu, 18 Sep 2008 16:01:16 +0000  
Record time: 2008-09-18T16:00  
Author: ADB  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

=====  
Adam Barker and Bobby Reece on duty.  
\$@MID@\$: 228  
Date: Thu, 18 Sep 2008 16:51:39 +0000  
Record time: 2008-09-18T16:50  
Author: ADB  
Type: Air Guns  
Subject: Gun Array 3 powered down  
Attachment:  
Encoding: ELCode

=====

Gun Array 3 powered down. Bringing to reattach tow point. Also switching comms on string 03.

\$@MID@\$: 229

Date: Thu, 18 Sep 2008 17:11:19 +0000

Record time: 2008-09-18T17:10

Author: ADB

Type: Air Guns

Subject: Gun Array 3 powered up

Attachment:

Encoding: ELCode

=====

Gun array 3 powered up.

\$@MID@\$: 230

Date: Thu, 18 Sep 2008 17:21:42 +0000

Record time: 2008-09-18T17:20

Author: ADB

Type: Air Guns

Subject: Gun Array 3 Powered Down

Attachment:

Encoding: ELCode

=====

Gun array 3 powered down to add rope for security.

\$@MID@\$: 231

Date: Thu, 18 Sep 2008 17:30:12 +0000

Record time: 2008-09-18T17:29

Author: ADB

Type: Air Guns

Subject: Gun Array 3 powered up

Attachment:

Encoding: ELCode

=====

Gun array 3 powered up

\$@MID@\$: 232

Date: Thu, 18 Sep 2008 17:50:00 +0000

Record time: 2008-09-18T17:44

Author: ADB

Type: Bird

Subject: Bird Depth Reset

Attachment:

Encoding: ELCode

=====

Bird depth set to 12 m to minimize vertical fluctuations.

\$@MID@\$: 233

Date: Thu, 18 Sep 2008 18:50:47 +0000

Record time: 2008-09-18T18:48

Author: ADB  
Type: Bird  
Subject: Birds 02 -11 near surface  
Attachment:  
Encoding: ELCode

---

Birds 02 -11 between 1.0 and 4.0 m depth causing great amount of noise.

\$@MID@\$: 234

Date: Thu, 18 Sep 2008 19:03:30 +0000

Record time: 2008-09-18T19:01

Author: ADB

Type: Bird

Subject: Birds 06 - 18 near surface

Attachment:

Encoding: ELCode

---

Birds 06 - 18 near surface. Birds 02 - 05 returned to depth of ~8 m.

Birds 19 - 21 rising.

\$@MID@\$: 235

Date: Thu, 18 Sep 2008 19:15:33 +0000

Record time: 2008-09-18T19:14

Author: ADB

Type: Bird

Subject: Birds 10 - 25 Near Surface

Attachment:

Encoding: ELCode

---

Birds 10 - 25 Near Surface. Significant amount of noise across entire streamer.

\$@MID@\$: 236

Date: Thu, 18 Sep 2008 19:22:38 +0000

Record time: 2008-09-18T19:21

Author: ADB

Type: Bird

Subject: Bird Depth Lowered

Attachment:

Encoding: ELCode

---

Bird depth decreased to 14 m. Poor weather causing difficulties in maintaining the streamer at the desired depth.

\$@MID@\$: 237

Date: Thu, 18 Sep 2008 19:25:30 +0000

Record time: 2008-09-18T19:23

Author: ADB

Type: Speed request

Subject: Speed lowered to 3.7

Attachment:  
Encoding: ELCode

=====

Request for speed decrease to 3.7 in an attempt to improve the streamer depth. Birds are at a shallow depth causing excess noise.

\$@MID@\$: 238

Date: Thu, 18 Sep 2008 19:32:04 +0000

Record time: 2008-09-18T19:30

Author: ADB

Type: Speed request

Subject: Speed increased to 4.4 kts

Attachment:

Encoding: ELCode

=====

Decreasing speed was not effective. Birds still at low elevation (~1-2m). Requested speed increase to 4.4 kts to put more tension on the line.

\$@MID@\$: 239

Date: Thu, 18 Sep 2008 19:35:25 +0000

Record time: 2008-09-18T19:33

Author: ADB

Type: Speed request

Subject: Speed decreased to 4.1

Attachment:

Encoding: ELCode

=====

High speed resulted in high tension (~5500 lbs). Speed decreased to 4.1 kts (STW).

\$@MID@\$: 240

Date: Thu, 18 Sep 2008 19:55:44 +0000

Record time: 2008-09-18T19:55

Author: BPH

Type: Comment/Event

Subject: Watch relief

Attachment:

Encoding: ELCode

=====

2000 watch relief

Ben Hooks and Ryan Elmore on watch

\$@MID@\$: 241

Date: Thu, 18 Sep 2008 20:04:11 +0000

Record time: 2008-09-18T19:57

Author: BPH

Type: Manuvering

Subject: Course update

Attachment:

Encoding: ELCode

=====

2000 course update  
N 59 19.173  
W 143 24.961  
Speed 3.89 kts STW Heading 80  
Depth 3037 Tension 3509  
\$@MID@\$: 242  
Date: Thu, 18 Sep 2008 20:06:11 +0000  
Record time: 2008-09-18T20:04  
Author: BPH  
Type: End of Line  
Subject: EOL STEEP07  
Attachment:  
Encoding: ELCode

=====

1954 End of line - STEEP07  
N 59 18.800  
W 143 25.911  
Depth 3161  
LGSP 2830

Sea state 3-6m  
Wind 20 kts  
\$@MID@\$: 243  
Date: Thu, 18 Sep 2008 20:10:24 +0000  
Record time: 2008-09-18T19:54  
Author: BPH  
Type: Manuvering  
Subject: Turn  
Attachment:  
Encoding: ELCode

=====

1954 Turning STBD 3 Minutes to sink streamer and regain depth.  
\$@MID@\$: 244  
Date: Thu, 18 Sep 2008 20:17:40 +0000  
Record time: 2008-09-18T20:17  
Author: BPH  
Type: Speed request  
Subject: Decrease speed  
Attachment:  
Encoding: ELCode

=====

2017 decrease speed to 3.7 kts  
\$@MID@\$: 245  
Date: Thu, 18 Sep 2008 20:33:14 +0000  
Record time: 2008-09-18T20:32

Author: BPH  
Type: Air Guns  
Subject: Guns off  
Attachment:  
Encoding: ELCode

---

1956 All guns powered off. S1G03 powered on. Running with one gun  
\$@MID@\$: 246

Date: Thu, 18 Sep 2008 20:39:44 +0000

Record time: 2008-09-18T20:38

Author: BPH

Type: Speed request

Subject: Speed increase

Attachment:

Encoding: ELCode

---

2039 increase speed to drop streamer

\$@MID@\$: 247

Date: Thu, 18 Sep 2008 20:48:35 +0000

Record time: 2008-09-18T20:48

Author: BPH

Type: Speed request

Subject: Increase speed

Attachment:

Encoding: ELCode

---

2048 increase speed to 3.4 kts.

\$@MID@\$: 248

Date: Thu, 18 Sep 2008 21:03:10 +0000

Record time: 2008-09-18T21:01

Author: BPH

Type: Manuvering

Subject: turn complete

Attachment:

Encoding: ELCode

---

2102 Turn complete

N 59 17.761

W 143 23.218

Heading 203 Speed 3.97 kts STW

Depth 3392m Tension 2591

\$@MID@\$: 249

Date: Thu, 18 Sep 2008 21:07:35 +0000

Record time: 2008-09-18T21:07

Author: BPH

Type: Speed request

Subject: Speed increase

Attachment:

Encoding: ELCode

---

2107 Speed increase to 3.6 kts STW.

\$@MID@\$: 250

Date: Thu, 18 Sep 2008 22:15:33 +0000

Record time: 2008-09-18T22:14

Author: BPH

Type: Air Guns

Subject: Start ramp up

Attachment:

Encoding: ELCode

---

2215 start ramp up of air guns.

\$@MID@\$: 251

Date: Thu, 18 Sep 2008 22:16:08 +0000

Record time: 2008-09-18T22:15

Author: BPH

Type: Manuvering

Subject: Turn

Attachment:

Encoding: ELCode

---

2215 Begin turn toward STEEP 07a

\$@MID@\$: 252

Date: Thu, 18 Sep 2008 23:00:02 +0000

Record time: 2008-09-18T22:59

Author: BPH

Type: Speed request

Subject: speed increase

Attachment:

Encoding: ELCode

---

2255 Speed increase to 4.5 kts STW.

\$@MID@\$: 253

Date: Fri, 19 Sep 2008 00:01:25 +0000

Record time: 2008-09-19T00:00

Author: SC

Type: Watch Relief

Subject: Watch Relief

Attachment:

Encoding: ELCode

---

Seth Campbell and Lindsay Worthington on Station

\$@MID@\$: 254



Date: Fri, 19 Sep 2008 00:05:41 +0000  
Record time: 2008-09-19T00:00  
Author: SC  
Type: Course Update  
Subject: Midnight Position  
Attachment:  
Encoding: ELCode

---

N 59 16 18220  
W 143 31 70781  
Heading 73.57  
Speed 4.09  
depth 3732  
Tension 3949  
\$@MID@\$: 255  
Date: Fri, 19 Sep 2008 00:06:43 +0000  
Record time: 2008-09-19T00:04  
Author: SC  
Type: Start of Line  
Subject: Start of Line  
Attachment:  
Encoding: ELCode

---

Start of Steep 7a SP # 2690  
\$@MID@\$: 256  
Date: Fri, 19 Sep 2008 00:10:13 +0000  
Record time: 2008-09-19T00:09  
Author: SC  
Type: Speed request  
Subject: Change of Speed  
Attachment:  
Encoding: ELCode

---

Change of speed from 4.1 to 3.9 due to high streamer tension  
\$@MID@\$: 257  
Date: Fri, 19 Sep 2008 00:15:36 +0000  
Record time: 2008-09-19T00:15  
Author: SC  
Type: Speed request  
Subject: Change of Speed  
Attachment:  
Encoding: ELCode

---

Speed request from 3.9 to 3.7 to decrease streamer tension  
\$@MID@\$: 258  
Date: Fri, 19 Sep 2008 00:26:51 +0000

Record time: 2008-09-19T00:19

Author: SC

Type: End of Line

Subject: End of Line

Attachment:

Encoding: ELCode

---

EOL at SP 2726 (36 shots recorded for total line) due to poor weather and poor streamer response

\$@MID@\$: 259

Date: Fri, 19 Sep 2008 00:28:21 +0000

Record time: 2008-09-19T00:19

Author: SC

Type: Air Guns

Subject: Air guns

Attachment:

Encoding: ELCode

---

One mammal gun left online String 01 S1G03 due to weather

\$@MID@\$: 260

Date: Fri, 19 Sep 2008 00:29:14 +0000

Record time: 2008-09-19T00:22

Author: SC

Type: Speed request

Subject: Change of Speed

Attachment:

Encoding: ELCode

---

Change of speed to 3.5 to decrease streamer tension

\$@MID@\$: 261

Date: Fri, 19 Sep 2008 00:35:01 +0000

Record time: 2008-09-19T00:33

Author: SC

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

---

N 59 17 45041

W 143 28 63035

Heading 73.08

Speed 3.53

Depth 3618

Tension 4278

\$@MID@\$: 262

Date: Fri, 19 Sep 2008 02:05:22 +0000

Record time: 2008-09-19T02:04  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 20 98741  
W 143 21 40224  
Heading 64.58  
Speed 3.76  
depth 1921  
Tension 3344

\$@MID@\$: 263  
Date: Fri, 19 Sep 2008 03:57:55 +0000  
Record time: 2008-09-19T03:57  
Author: lw  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

---

N 59 25.811  
W 143 11.937  
Speed 3.3 Heading 63.14  
\$@MID@\$: 264  
Date: Fri, 19 Sep 2008 05:13:16 +0000  
Record time: 2008-09-19T05:10  
Author: BM  
Type: SOL  
Subject: SOL STEEP07B  
Attachment:  
Encoding: ELCode

---

Started STEEP07B for a chance to get any data over this weather.

Position 59'28.460 N  
143'06.639 W  
Sequence 6 Tape 11  
Depth 809m winds 30 KTS seas 3-4 meter  
\$@MID@\$: 265  
Date: Fri, 19 Sep 2008 07:59:22 +0000  
Record time: 2008-09-19T07:58  
Author: BPH  
Type: Comment/Event

Subject: Watch relief

Attachment:

Encoding: ELCode

---

800 Watch relief

Ben Hooks and Ryan Elmore on station.

\$@MID@\$: 266

Date: Fri, 19 Sep 2008 08:12:21 +0000

Record time: 2008-09-19T08:11

Author: BPH

Type: Speed request

Subject: Speed decrease

Attachment:

Encoding: ELCode

---

811 Speed request to decrease to 3.5 kts STW due to high tension

\$@MID@\$: 267

Date: Fri, 19 Sep 2008 08:34:56 +0000

Record time: 2008-09-19T08:33

Author: BPH

Type: Comment/Event

Subject: Course update

Attachment:

Encoding: ELCode

---

0833 Course update

N 59 36.866

W 142 49.809

Heading 73 Speed 2.36 kts STW

Depth (n/a) Tension 2299lbs

\$@MID@\$: 268

Date: Fri, 19 Sep 2008 09:00:39 +0000

Record time: 2008-09-19T08:59

Author: BPH

Type: Comment/Event

Subject: Course update

Attachment:

Encoding: ELCode

---

0900 course update.

N 59 37.803

W 142 47.892

Heading 62 speed 3.57 Kts STW

Depth 456m Tension 2984

\$@MID@\$: 269

Date: Fri, 19 Sep 2008 09:58:02 +0000

Record time: 2008-09-19T09:56

Author: BPH

Type: Comment/Event

Subject: Course update

Attachment:

Encoding: ELCode

---

0956 Course update

N 59 39.880

W 142 43.727

Heading 71 Speed 2.93 Kts STW.

Depth n/a Tension 3195 lbs

\$@MID@\$: 270

Date: Fri, 19 Sep 2008 10:29:36 +0000

Record time: 2008-09-19T10:27

Author: BPH

Type: End of Line

Subject: EOL STEEP07B

Attachment:

Encoding: ELCode

---

1022 EOL STEEP07B

N 59 40.728

W 142 42.026

Depth 511

Sea 6-9'

Wind 33 kts

Speed 3.16 kts STW

heading 75

LGSP 3990

LFID 0654 REEL 0011

\$@MID@\$: 271

Date: Fri, 19 Sep 2008 10:30:12 +0000

Record time: 2008-09-19T10:29

Author: BPH

Type: Air Guns

Subject: Guns powered off

Attachment:

Encoding: ELCode

---

1022 Guns powered off. S1G23 powered on.

\$@MID@\$: 272

Date: Fri, 19 Sep 2008 10:32:51 +0000

Record time: 2008-09-19T10:32  
Author: BPH  
Type: Manuvering  
Subject: Course adjust  
Attachment:  
Encoding: ELCode

=====

1024 Course adjust to 318. Turn toward STEEP01.  
\$@MID@\$: 273

Date: Fri, 19 Sep 2008 10:36:50 +0000  
Record time: 2008-09-19T10:35  
Author: BPH  
Type: Manuvering  
Subject: Hold heading at 86  
Attachment:  
Encoding: ELCode

=====

1035 Holding on heading 86 to determine if equipment retrieval is possible  
\$@MID@\$: 274

Date: Fri, 19 Sep 2008 10:59:46 +0000  
Record time: 2008-09-19T10:57  
Author: BPH  
Type: Manuvering  
Subject: Heading change  
Attachment:  
Encoding: ELCode

=====

1055  
N 59 41.583  
W 142 39.028

Heading change to northerly direction to find calmer weather for equipment retrieval, as well as move toward STEEP01

\$@MID@\$: 275  
Date: Fri, 19 Sep 2008 11:22:03 +0000  
Record time: 2008-09-19T11:21  
Author: cre  
Type: Ramp up  
Subject: Begin ramp up  
Attachment:  
Encoding: ELCode

=====

1120 hrs begin gun ramp up  
\$@MID@\$: 276  
Date: Fri, 19 Sep 2008 11:48:30 +0000  
Record time: 2008-09-19T11:46

Author: cre  
Type: SOL  
Subject: SOL STEEP16  
Attachment:  
Encoding: ELCode

---

1144 hrs SOL STEEP16  
N 59 44.758  
W 142 38.352  
speed 4.19 kts heading 33.34  
\$@MID@\$: 277  
Date: Fri, 19 Sep 2008 12:01:37 +0000  
Record time: 2008-09-19T12:00  
Author: SC  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

---

Seth Campbell and Lindsay Worthington on Station  
\$@MID@\$: 278  
Date: Fri, 19 Sep 2008 12:07:05 +0000  
Record time: 2008-09-19T12:01  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 45 96603  
W 142 38 56888  
Heading 346.64  
Speed 3.84  
Depth 3999  
Tension 2919  
\$@MID@\$: 279  
Date: Fri, 19 Sep 2008 12:11:57 +0000  
Record time: 2008-09-19T12:08  
Author: SC  
Type: Speed request  
Subject: Speed Request  
Attachment:  
Encoding: ELCode

---

Adjust speed to 3.5  
\$@MID@\$: 280

Date: Fri, 19 Sep 2008 12:12:28 +0000  
Record time: 2008-09-19T12:12  
Author: SC  
Type: Speed request  
Subject: Speed Request  
Attachment:  
Encoding: ELCode

---

Speed Adjustment to 3.8  
\$@MID@\$: 281  
Date: Fri, 19 Sep 2008 12:21:09 +0000  
Record time: 2008-09-19T12:20  
Author: SC  
Type: Speed request  
Subject: Speed Change  
Attachment:  
Encoding: ELCode

---

Change of speed to 4.0  
\$@MID@\$: 282  
Date: Fri, 19 Sep 2008 12:37:09 +0000  
Record time: 2008-09-19T12:36  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 48 34719  
W 142 39 42750  
Headin 33.36  
Speed 3.72  
Depth 4213  
Tension 3307  
\$@MID@\$: 283  
Date: Fri, 19 Sep 2008 13:35:03 +0000  
Record time: 2008-09-19T13:33  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 52 57211  
W 142 40 47101  
Heading 35.82



Speed 3.48  
Depth 180  
Tension 3337  
\$@MID@\$: 284  
Date: Fri, 19 Sep 2008 14:03:02 +0000  
Record time: 2008-09-19T14:01  
Author: SC  
Type: streamer  
Subject: Streamer flat  
Attachment:  
Encoding: ELCode

=====

Streamer flat averaging below 12 m in depth. file 367 SP 1410

\$@MID@\$: 285  
Date: Fri, 19 Sep 2008 14:04:24 +0000  
Record time: 2008-09-19T14:03  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====

N 59 54 65172  
W 142 40 98679  
Heading 39.33  
Speed 3.97  
Depth 151  
Tension 2621  
\$@MID@\$: 286  
Date: Fri, 19 Sep 2008 15:05:09 +0000  
Record time: 2008-09-19T15:04  
Author: Sc  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====

N 59 59 02214  
W 142 42 04696  
Heading 38.86  
Speed 3.76  
Depth 103  
Tension 3352  
\$@MID@\$: 287  
Date: Fri, 19 Sep 2008 15:23:31 +0000  
Record time: 2008-09-19T15:22

Author: SC  
Type: course change  
Subject: Course Change  
Attachment:  
Encoding: ELCode

---

Beginning turning due west. Still collecting seismic profile  
\$@MID@\$: 288  
Date: Fri, 19 Sep 2008 15:28:54 +0000  
Record time: 2008-09-19T15:27  
Author: SC  
Type: End of Line  
Subject: End of Line  
Attachment:  
Encoding: ELCode

---

end of Line Last SP #1645  
\$@MID@\$: 289  
Date: Fri, 19 Sep 2008 16:00:34 +0000  
Record time: 2008-09-19T15:55  
Author: ADB  
Type: Start of Line  
Subject: SOL STEEP17  
Attachment:  
Encoding: ELCode

---

SOL STEEP17  
N 60 01.978  
W142.47.077  
Depth 77.71 SOG 5.6  
Heading 236.14 Real 0013  
Seas 2-3m SP 1036 SEQ 08  
\$@MID@\$: 290  
Date: Fri, 19 Sep 2008 16:11:49 +0000  
Record time: 2008-09-19T16:11  
Author: ADB  
Type: Air Guns  
Subject: String 02 Powered Down  
Attachment:  
Encoding: ELCode

---

String 02 powered down to repair guns 10 and 2.  
\$@MID@\$: 291  
Date: Fri, 19 Sep 2008 16:23:42 +0000  
Record time: 2008-09-19T16:22  
Author: ADB

Type: PAM  
Subject: PAM pulled in.  
Attachment:  
Encoding: ELCode

=====

PAM pulled in during repair to gun array 02.  
\$@MID@\$: 292  
Date: Fri, 19 Sep 2008 18:09:28 +0000  
Record time: 2008-09-19T18:08  
Author: ADB  
Type: Air Guns  
Subject: Gun String 02 Powered Up  
Attachment:  
Encoding: ELCode

=====

Gun string 02 powered up to check repairs. 2 fixed, but 10 is not.  
\$@MID@\$: 293  
Date: Fri, 19 Sep 2008 18:16:59 +0000  
Record time: 2008-09-19T18:15  
Author: ADB  
Type: Air Guns  
Subject: Solenoid swap from guns 9 and 10  
Attachment:  
Encoding: ELCode

=====

Solenoid swap from guns 9 and 10.  
\$@MID@\$: 294  
Date: Fri, 19 Sep 2008 18:20:06 +0000  
Record time: 2008-09-19T18:19  
Author: ADB  
Type: Air Guns  
Subject: Spare Activated  
Attachment:  
Encoding: ELCode

=====

On Gun String 02, 10 turned off and spare activated.  
\$@MID@\$: 295  
Date: Fri, 19 Sep 2008 18:20:47 +0000  
Record time: 2008-09-19T18:20  
Author: ADB  
Type: Air Guns  
Subject: Gun String 02 Powered Down  
Attachment:  
Encoding: ELCode

=====

Gun String 02 Powered Down.

\$@MID@\$: 296

Date: Fri, 19 Sep 2008 18:33:01 +0000

Record time: 2008-09-19T18:31

Author: ADB

Type: Air Guns

Subject: Gun 2 Problem Reported

Attachment:

Encoding: ELCode

---

Gunners report trouble with number 2 gun on string 02.

\$@MID@\$: 297

Date: Fri, 19 Sep 2008 18:53:05 +0000

Record time: 2008-09-19T18:47

Author: ADB

Type: End of Line

Subject: EOL STEEP17

Attachment:

Encoding: ELCode

---

End of Line STEEP17

N 59 55.378

W 143 12.226

Tape 13 SP 1561

Depth 152.73

\$@MID@\$: 298

Date: Fri, 19 Sep 2008 19:39:42 +0000

Record time: 2008-09-19T19:38

Author: ADB

Type: Air Guns

Subject: Begin Deployment of String 02

Attachment:

Encoding: ELCode

---

Begin deployment of string 02.

\$@MID@\$: 299

Date: Fri, 19 Sep 2008 19:53:46 +0000

Record time: 2008-09-19T19:53

Author: BPH

Type: Comment/Event

Subject: Watch relief

Attachment:

Encoding: ELCode

---

2000 watch relief

Ben Hooks and Ryan Elmore on watch.

\$@MID@\$: 300

Date: Fri, 19 Sep 2008 19:56:37 +0000  
Record time: 2008-09-19T19:55  
Author: BPH  
Type: Air Guns  
Subject: String 02 deployed  
Attachment:  
Encoding: ELCode

---

1955 gun string 02 deployed and ready to fire.  
\$@MID@\$: 301

Date: Fri, 19 Sep 2008 19:58:19 +0000  
Record time: 2008-09-19T19:57  
Author: BPH  
Type: Air Guns  
Subject: Power up string 02  
Attachment:  
Encoding: ELCode

---

1957 powering up string 02  
\$@MID@\$: 302  
Date: Fri, 19 Sep 2008 19:59:40 +0000  
Record time: 2008-09-19T19:59  
Author: BPH  
Type: Air Guns  
Subject: Finish power up  
Attachment:  
Encoding: ELCode

---

1959 Finished powering up string 02  
\$@MID@\$: 303  
Date: Fri, 19 Sep 2008 20:08:21 +0000  
Record time: 2008-09-19T20:02  
Author: BPH  
Type: Air Guns  
Subject: S1G20 repaired  
Attachment:  
Encoding: ELCode

---

2008 S1G20 repaired and turned on  
\$@MID@\$: 304  
Date: Fri, 19 Sep 2008 20:46:20 +0000  
Record time: 2008-09-19T20:30  
Author: BPH  
Type: Start of Line  
Subject: SOL STEEP19  
Attachment:

Encoding: ELCode

---

2030 SOL STEEP019

N 59 52.427

W 143 23.790

Sequence 009

FGSP 990 Tape 0014

Depth 246 Heading 320 Speed 4.15 Kts STW

Sea state 3-6'

\$@MID@\$: 305

Date: Fri, 19 Sep 2008 21:03:57 +0000

Record time: 2008-09-19T21:02

Author: BPH

Type: Comment/Event

Subject: Course update

Attachment:

Encoding: ELCode

---

2103 Course update

N 59 54.027

W 143 26.069

Heading 24.5 Speed 4.05 Kts STW

Depth 253 Tension 2964

\$@MID@\$: 306

Date: Fri, 19 Sep 2008 21:53:18 +0000

Record time: 2008-09-19T21:52

Author: BPH

Type: End of Line

Subject: EOL STEEP019

Attachment:

Encoding: ELCode

---

2147 EOL STEEP19

N 59 55.183

W 143.22.481

\$@MID@\$: 307

Date: Fri, 19 Sep 2008 21:55:49 +0000

Record time: 2008-09-19T21:53

Author: BPH

Type: Start of Line

Subject: SOL STEEP18

Attachment:

Encoding: ELCode

---

2148 SOL STEEP018

N 59 55.183  
W 143 22.481

Sea State 3-6'  
Streamer Depth 14'  
Water Depth n/a  
Wind n/a

Heading 57 Speed 4.2 Kts STW  
Tension 3457 lbs

Tape 0015 FGSP 996  
\$@MID@\$: 308  
Date: Fri, 19 Sep 2008 22:11:08 +0000  
Record time: 2008-09-19T22:10  
Author: BPH  
Type: Air Guns  
Subject: S1G14 off  
Attachment:  
Encoding: ELCode

=====

2208 S1G14 turned off due to timing errors. S1G15 turned on.

\$@MID@\$: 309  
Date: Fri, 19 Sep 2008 22:14:52 +0000  
Record time: 2008-09-19T22:14  
Author: BPH  
Type: Bird  
Subject: Birds to 13m  
Attachment:  
Encoding: ELCode

=====

2212 Birds assigned depth of 13m  
\$@MID@\$: 310  
Date: Fri, 19 Sep 2008 22:32:37 +0000  
Record time: 2008-09-19T22:31  
Author: BPH  
Type: Bird  
Subject: Bird depth  
Attachment:  
Encoding: ELCode

=====

2232 Birds reassigned depth of 12.5m  
\$@MID@\$: 311  
Date: Fri, 19 Sep 2008 23:09:07 +0000  
Record time: 2008-09-19T23:07  
Author: cre

Type: Manuvering  
Subject: course update  
Attachment:  
Encoding: ELCode

---

2307 hrs  
N 59 57.142  
W 143 15.752  
speed 4.04 kts heading 60  
tension 3785 lbs  
\$@MID@\$: 312  
Date: Fri, 19 Sep 2008 23:34:39 +0000  
Record time: 2008-09-19T23:33  
Author: cre  
Type: Manuvering  
Subject: course update  
Attachment:  
Encoding: ELCode

---

2333 hrs  
N 59 57.686  
W 143 13.479  
speed 4.28 kts heading 69  
tension 3352 lbs  
\$@MID@\$: 313  
Date: Fri, 19 Sep 2008 23:42:00 +0000  
Record time: 2008-09-19T23:39  
Author: cre  
Type: streamer  
Subject: moving streamer  
Attachment:  
Encoding: ELCode

---

2339 hrs  
moving streamer to 11.5 meters  
SP# 1199  
\$@MID@\$: 314  
Date: Fri, 19 Sep 2008 23:52:39 +0000  
Record time: 2008-09-19T23:52  
Author: lw  
Type: Watch Relief  
Subject: watch relief  
Attachment:  
Encoding: ELCode

---

watch is relieved by Lindsay Worthington and Seth Campbell.



\$@MID@\$: 315  
Date: Sat, 20 Sep 2008 00:03:30 +0000  
Record time: 2008-09-20T00:02  
Author: lw  
Type: MIDNIGHT  
Subject: midnight position  
Attachment:  
Encoding: ELCode

---

N 59 58.302  
W 143 10.808  
speed 4.26 heading 67.38  
tension 4039.1  
shot#1242  
\$@MID@\$: 316  
Date: Sat, 20 Sep 2008 00:32:57 +0000  
Record time: 2008-09-20T00:31  
Author: lw  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

---

N 59 58.943  
W 143 08.051  
Speed 4.16 Heading 69.11  
Tension 4083.9  
Shot #1298  
\$@MID@\$: 317  
Date: Sat, 20 Sep 2008 00:40:30 +0000  
Record time: 2008-09-20T00:39  
Author: SC  
Type: Magnitometer  
Subject: Magnetometer In Water  
Attachment:  
Encoding: ELCode

---

Magnetometer in water  
\$@MID@\$: 318  
Date: Sat, 20 Sep 2008 01:49:05 +0000  
Record time: 2008-09-20T01:48  
Author: SC  
Type: Magnitometer  
Subject: Magnetometer logging  
Attachment:  
Encoding: ELCode

=====

magnetometer logging  
\$@MID@\$: 319  
Date: Sat, 20 Sep 2008 01:59:00 +0000  
Record time: 2008-09-20T01:57  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====

N 60 01 29161  
W 142 59 87053  
Heading 62.08  
Speed 3.92  
Depth 105  
Tension 3561  
\$@MID@\$: 320  
Date: Sat, 20 Sep 2008 02:06:29 +0000  
Record time: 2008-09-20T02:04  
Author: SC  
Type: End of Line  
Subject: End of Line Steep 18  
Attachment:  
Encoding: ELCode

=====

End of Line steep 18  
N 60 01 60703  
W 142 59 31280

Last SP # 1484  
Depth 99.8  
\$@MID@\$: 321  
Date: Sat, 20 Sep 2008 02:18:15 +0000  
Record time: 2008-09-20T02:17  
Author: SC  
Type: Line Change  
Subject: Line Change to STEEP 01  
Attachment:  
Encoding: ELCode

=====

Line change to STEEP 01  
\$@MID@\$: 322  
Date: Sat, 20 Sep 2008 02:47:10 +0000  
Record time: 2008-09-20T02:45  
Author: SC

Type: Start of Line  
Subject: Start of Line STEEP 01  
Attachment:  
Encoding: ELCode

---

Start of Line STEEP 01; first SP# 1031  
N 60 02 23.511  
W 142 55 45.884  
Depth 84 m  
Speed 3.3  
\$@MID@\$: 323  
Date: Sat, 20 Sep 2008 03:10:44 +0000  
Record time: 2008-09-20T03:09  
Author: lw  
Type: Comment/Event  
Subject: on course for STEEP01  
Attachment:  
Encoding: ELCode

---

on course STEEP 01  
shot # 1080  
\$@MID@\$: 324  
Date: Sat, 20 Sep 2008 03:54:12 +0000  
Record time: 2008-09-20T03:53  
Author: SC  
Type: streamer  
Subject: streamer depth  
Attachment:  
Encoding: ELCode

---

Streamers set to 9.5m  
\$@MID@\$: 325  
Date: Sat, 20 Sep 2008 04:02:18 +0000  
Record time: 2008-09-20T04:01  
Author: SC  
Type: streamer  
Subject: streamer depth  
Attachment:  
Encoding: ELCode

---

Streamer depth at 9.0 m  
\$@MID@\$: 326  
Date: Sat, 20 Sep 2008 04:15:27 +0000  
Record time: 2008-09-20T04:00  
Author: rsr  
Type: Watch Relief

Subject: Watch Relief  
Attachment:  
Encoding: ELCode

---

Watch relieved by Bobby Reece and Adam Barker.  
\$@MID@\$: 327  
Date: Sat, 20 Sep 2008 07:59:50 +0000  
Record time: 2008-09-20T07:59  
Author: BPH  
Type: Comment/Event  
Subject: Watch relief  
Attachment:  
Encoding: ELCode

---

0800 Watch relief by Ben Hooks and Ryan Elmore  
\$@MID@\$: 328  
Date: Sat, 20 Sep 2008 11:13:40 +0000  
Record time: 2008-09-20T11:12  
Author: BPH  
Type: Air Guns  
Subject: S1G12 disabled, S1G14 enabled  
Attachment:  
Encoding: ELCode

---

1101 - SP 2015 S1G12 disabled - consecutive no fires  
1102 - SP 2018 S1G14 enabled  
\$@MID@\$: 329  
Date: Sat, 20 Sep 2008 11:54:09 +0000  
Record time: 2008-09-20T11:51  
Author: lw  
Type: Watch Relief  
Subject: watch relief  
Attachment:  
Encoding: ELCode

---

watch relief by Lindsay Wortington and Seth Campbell.  
\$@MID@\$: 330  
Date: Sat, 20 Sep 2008 15:55:45 +0000  
Record time: 2008-09-20T15:55  
Author: ADB  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

---

Adam Barker and Bobby Reece on station.

\$@MID@\$: 331

Date: Sat, 20 Sep 2008 16:58:44 +0000

Record time: 2008-09-20T16:57

Author: ADB

Type: MMO sighting

Subject: Power Down - Mammal Sighting

Attachment:

Encoding: ELCode

=====

MMO sighting. Porpoise in the region reported by MMO tower. Powered down to one gun.

SP 2880

N 59 33 25.463

W 141 35 23.480

\$@MID@\$: 332

Date: Sat, 20 Sep 2008 17:06:59 +0000

Record time: 2008-09-20T17:06

Author: ADB

Type: MMO

Subject: Power Up - Mammals left the area

Attachment:

Encoding: ELCode

=====

Mammals have left the region and confirmed by MMO tower. All guns powered up. SP 2896

N 59 33 10.325

W 141 34 42.477

\$@MID@\$: 333

Date: Sat, 20 Sep 2008 17:39:37 +0000

Record time: 2008-09-20T17:36

Author: ADB

Type: Comment/Event

Subject: Power Down-Compressor Failure

Attachment:

Encoding: ELCode

=====

Powered down guns. Only one operational. Gunners report compressor failure.

N 59 32.015

W 141 31.587

SP 2966

Depth 152 m

\$@MID@\$: 334

Date: Sat, 20 Sep 2008 17:42:58 +0000

Record time: 2008-09-20T17:42

Author: ADB  
Type: Air Guns  
Subject: Pulling in String 02  
Attachment:  
Encoding: ELCode

---

Gunners pulling in Gun string 02 due to loss of air.

\$@MID@\$: 335

Date: Sat, 20 Sep 2008 17:53:46 +0000

Record time: 2008-09-20T17:53

Author: ADB

Type: Air Guns

Subject: String 02 on deck

Attachment:

Encoding: ELCode

---

Gunners completed pulling in gun string 02. String 02 on deck.

\$@MID@\$: 336

Date: Sat, 20 Sep 2008 17:58:21 +0000

Record time: 2008-09-20T17:56

Author: ADB

Type: Comment/Event

Subject: Ramp Up-Strings 01, 03 and 04

Attachment:

Encoding: ELCode

---

Engineers report compressor back on line.

To ramp up gun strings 01, 03, and 04.

N 59 31.230

W 141 29.477

Depth 157

\$@MID@\$: 337

Date: Sat, 20 Sep 2008 17:59:38 +0000

Record time: 2008-09-20T17:59

Author: ADB

Type: Comment/Event

Subject: Gun Ramp up

Attachment:

Encoding: ELCode

---

Soft-start sequence begun.

\$@MID@\$: 338

Date: Sat, 20 Sep 2008 18:17:32 +0000

Record time: 2008-09-20T18:16

Author: ADB

Type: Air Guns

Subject: Ramp up finished

Attachment:

Encoding: ELCode

=====

Ramp up of strings 01, 03, and 04 complete. Now firing 30 guns  
SP 3061

N 59 30.519

W 141 27.547

Depth 169

Tape 018

\$@MID@\$: 339

Date: Sat, 20 Sep 2008 18:22:50 +0000

Record time: 2008-09-20T18:22

Author: ADB

Type: Air Guns

Subject: String 02 ready for redeployment

Attachment:

Encoding: ELCode

=====

Gunners report to Bridge that string 02 ready for redeployment.

\$@MID@\$: 340

Date: Sat, 20 Sep 2008 18:37:55 +0000

Record time: 2008-09-20T18:37

Author: ADB

Type: Air Guns

Subject: String 02 Back in Water

Attachment:

Encoding: ELCode

=====

Gunners report string 02 back in water.

\$@MID@\$: 341

Date: Sat, 20 Sep 2008 18:39:36 +0000

Record time: 2008-09-20T18:38

Author: ADB

Type: Air Guns

Subject: Air guns at full source

Attachment:

Encoding: ELCode

=====

String 02 back in the water. Air guns back to full source

N 59 29.710

W 141 25.406

Depth 173

SP 3112

\$@MID@\$: 342

Date: Sat, 20 Sep 2008 18:42:00 +0000

Record time: 2008-09-20T18:40  
Author: ADB  
Type: Air Guns  
Subject: String 02 Gun 4 Disabled  
Attachment:  
Encoding: ELCode

=====

String 02 Gun 4 disabled. Gun 5 enabled.  
SP 3115

\$@MID@\$: 343  
Date: Sat, 20 Sep 2008 18:46:57 +0000  
Record time: 2008-09-20T18:45  
Author: ADB  
Type: Comment/Event  
Subject: All guns off-Compressor problem  
Attachment:  
Encoding: ELCode

=====

All guns turned off due to compressor problem.

N 59 29.432  
W 141 24.671  
SP 3128  
Missed shots 3129-3130  
\$@MID@\$: 344  
Date: Sat, 20 Sep 2008 18:47:39 +0000  
Record time: 2008-09-20T18:47  
Author: ADB  
Type: Air Guns  
Subject: One gun online  
Attachment:  
Encoding: ELCode

=====

Back online with one 40 cubic inch gun.

SP 3131  
Missed SP 3129 to 3130  
\$@MID@\$: 345  
Date: Sat, 20 Sep 2008 19:05:36 +0000  
Record time: 2008-09-20T19:04  
Author: ADB  
Type: Comment/Event  
Subject: Mitigation Gun Shutdown  
Attachment:  
Encoding: ELCode

=====



Mitigation gun shutdown due to low pressure.

SP 3174  
\$@MID@\$: 346  
Date: Sat, 20 Sep 2008 19:06:55 +0000  
Record time: 2008-09-20T19:05  
Author: ADB  
Type: Comment/Event  
Subject: Line Stopped  
Attachment:  
Encoding: ELCode

---

Line Stopped STEEP01

N 59 28.674  
W 141 22.647  
Depth 179 Heading 126  
Tape 018  
SP 3176  
\$@MID@\$: 347  
Date: Sat, 20 Sep 2008 20:02:20 +0000  
Record time: 2008-09-20T20:01  
Author: cre  
Type: Watch Relief  
Subject: watch relief  
Attachment:  
Encoding: ELCode

---

2000 hrs watch relief: ryan elmore and ben hooks on  
\$@MID@\$: 348  
Date: Sat, 20 Sep 2008 20:42:43 +0000  
Record time: 2008-09-20T20:41  
Author: BPH  
Type: Air Guns  
Subject: Start ramp up  
Attachment:  
Encoding: ELCode

---

2010 Air pressure back at 2000, begin ramp up  
N 59 26.035  
W 141 15.612  
\$@MID@\$: 349  
Date: Sat, 20 Sep 2008 21:06:27 +0000  
Record time: 2008-09-20T21:04

Author: BPH  
Type: Start of Line  
Subject: SOL STEEP01 Seq 11  
Attachment:  
Encoding: ELCode

---

2055 SOL STEEP01 Seq 11 FSP3448  
N 59 24.346 W 141 11.156 Reel 19  
\$@MID@\$: 350  
Date: Sat, 20 Sep 2008 21:07:36 +0000  
Record time: 2008-09-20T21:06  
Author: BPH  
Type: Air Guns  
Subject: S1G12 off  
Attachment:  
Encoding: ELCode

---

2100 S1G12 off due to consecutive no fires  
2101 S1G25 on - volume 6420 cu in.  
\$@MID@\$: 351  
Date: Sat, 20 Sep 2008 21:08:09 +0000  
Record time: 2008-09-20T21:07  
Author: BPH  
Type: Air Guns  
Subject: S1G25 on  
Attachment:  
Encoding: ELCode

---

2105 S1G25 on - volume to 6600 cu in.  
\$@MID@\$: 352  
Date: Sat, 20 Sep 2008 22:26:32 +0000  
Record time: 2008-09-20T22:25  
Author: BPH  
Type: Air Guns  
Subject: S1G35 off  
Attachment:  
Encoding: ELCode

---

2219 S1G35 off due to no fires, volume at 3420 cu in.  
\$@MID@\$: 353  
Date: Sat, 20 Sep 2008 23:49:02 +0000  
Record time: 2008-09-20T23:43  
Author: BPH  
Type: Air Guns  
Subject: Strings 3 and 4 Off  
Attachment:

Encoding: ELCode

=====

2343 Gun stings 3 and 4 off and pulled in.  
shot point 3907

\$@MID@\$: 354

Date: Sun, 21 Sep 2008 00:00:29 +0000

Record time: 2008-09-20T24:00

Author: BPH

Type: Comment/Event

Subject: Midnight position

Attachment:

Encoding: ELCode

=====

2400 Midnight position

N 59 16.184

W 140 49.746

Heading 132 Speed 4.53 Kts STW

Tension 3726 lbs Depth 161m

\$@MID@\$: 355

Date: Sun, 21 Sep 2008 00:01:34 +0000

Record time: 2008-09-21T00:00

Author: lw

Type: Watch Relief

Subject: watch relief

Attachment:

Encoding: ELCode

=====

lindsay worthington and seth campbell on watch.

\$@MID@\$: 356

Date: Sun, 21 Sep 2008 00:05:26 +0000

Record time: 2008-09-21T00:04

Author: lw

Type: MIDNIGHT

Subject: midnight position

Attachment:

Encoding: ELCode

=====

N 59 16.075

W 140 49.454

Speed 4.76 Heading 132.45

tension 3899.8

\$@MID@\$: 357

Date: Sun, 21 Sep 2008 01:03:05 +0000

Record time: 2008-09-21T01:01

Author: SC

Type: Course Update  
Subject: Course Update and Speed Change  
Attachment:  
Encoding: ELCode

---

N 59 13 18381  
W 140 41 94085  
heading 131.04  
Speed 4.61  
Depth 156  
Tension 3696

Speed decrease by .1 to lift streamer birds 12-14  
\$@MID@\$: 358  
Date: Sun, 21 Sep 2008 01:59:52 +0000  
Record time: 2008-09-21T01:58  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

N 59 10 51112  
W 140 35 05277  
Speed 4.42  
Heading 129.12  
Depth 154  
Tension 3778  
\$@MID@\$: 359  
Date: Sun, 21 Sep 2008 02:15:48 +0000  
Record time: 2008-09-21T02:15  
Author: SC  
Type: Air Guns  
Subject: Air Gun Power up  
Attachment:  
Encoding: ELCode

---

Strings 3 and 4 air guns power up  
\$@MID@\$: 360  
Date: Sun, 21 Sep 2008 02:26:46 +0000  
Record time: 2008-09-21T02:26  
Author: SC  
Type: Air Guns  
Subject: Air guns offline  
Attachment:  
Encoding: ELCode

=====

Guns S1G32 and S1G21 turned off due to no fires SP#4381

\$@MID@\$: 361

Date: Sun, 21 Sep 2008 02:39:08 +0000

Record time: 2008-09-21T02:38

Author: Sc

Type: Air Guns

Subject: Air Guns

Attachment:

Encoding: ELCode

=====

Air guns at 5700 psi

\$@MID@\$: 362

Date: Sun, 21 Sep 2008 03:30:41 +0000

Record time: 2008-09-21T03:29

Author: Sc

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

=====

N 59 06 21449

W 140 24 02350

Heading 125.03

Speed 4.27

Depth 146

Tension 3860

\$@MID@\$: 363

Date: Sun, 21 Sep 2008 07:57:17 +0000

Record time: 2008-09-21T07:56

Author: bph

Type: Comment/Event

Subject: watch relief

Attachment:

Encoding: ELCode

=====

800 Watch relief Ben hooks and ryan elmore on

\$@MID@\$: 364

Date: Sun, 21 Sep 2008 12:24:29 +0000

Record time: 2008-09-21T12:23

Author: lw

Type: Watch Relief

Subject: watch reilief

Attachment:

Encoding: ELCode

=====

1200 hrs. watch relief. lindsay worthington and seth campbell on station.

\$@MID@\$: 365

Date: Sun, 21 Sep 2008 12:29:46 +0000

Record time: 2008-09-21T12:28

Author: lw

Type: Course Update

Subject: course update

Attachment:

Encoding: ELCode

=====

N 58 42.05649

W 139 23.55770

Speed 4.6 Heading 132.72

Tension 3845

\$@MID@\$: 366

Date: Sun, 21 Sep 2008 14:21:14 +0000

Record time: 2008-09-21T14:19

Author: lw

Type: Course Update

Subject: course update

Attachment:

Encoding: ELCode

=====

N 58 36.585

W 139 10.209

Speed 4.59 Heading 133.06

Depth 165.38

Tension 3665.8

\$@MID@\$: 367

Date: Sun, 21 Sep 2008 20:03:04 +0000

Record time: 2008-09-21T20:02

Author: cre

Type: Watch Relief

Subject: watch relief

Attachment:

Encoding: ELCode

=====

2002 hrs watch relief: ben hooks and rya elmore on.

\$@MID@\$: 368

Date: Sun, 21 Sep 2008 20:33:30 +0000

Record time: 2008-09-21T20:30

Author: cre

Type: Manuvering

Subject: course update

Attachment:

Encoding: ELCode

=====

2030 hrs  
N 58 18.396  
W 138 26.743  
speed 4.83 heading 131  
tension 4158 lbs  
\$@MID@\$: 369  
Date: Sun, 21 Sep 2008 21:01:58 +0000  
Record time: 2008-09-21T21:00  
Author: cre  
Type: Manuvering  
Subject: course update  
Attachment:  
Encoding: ELCode

=====

2100 hrs  
N 58 16.980  
W 138 23.430  
speed 4.81 kts heading 130  
tension 4045 lbs  
\$@MID@\$: 370  
Date: Sun, 21 Sep 2008 21:57:51 +0000  
Record time: 2008-09-21T21:53  
Author: cre  
Type: MMO sighting  
Subject: marine mammal power down  
Attachment:  
Encoding: ELCode

=====

2155 hrs  
N 58 14.445  
W 138 17.481  
speed 4.8 kys heading 132  
Humpback Whale  
\$@MID@\$: 371  
Date: Sun, 21 Sep 2008 22:25:23 +0000  
Record time: 2008-09-21T22:24  
Author: cre  
Type: Ramp up  
Subject: begin ramp up  
Attachment:  
Encoding: ELCode

=====

2212 hrs begin ramp up SP#: 7732  
missed shots 7728-7731  
\$@MID@\$: 372

Date: Sun, 21 Sep 2008 22:26:46 +0000  
Record time: 2008-09-21T22:25  
Author: cre  
Type: EOL  
Subject: EOL STEEP01  
Attachment:  
Encoding: ELCode

---

2225 hrs  
Sequence # 11, tape # 23  
LGSP#: 7766  
N 58 12.498  
W 138 14.006  
\$@MID@\$: 373  
Date: Sun, 21 Sep 2008 22:35:47 +0000  
Record time: 2008-09-21T22:34  
Author: cre  
Type: Magnitometer  
Subject: bringing maggie onboard  
Attachment:  
Encoding: ELCode

---

2234 hrs  
bringing maggie on board  
N 58 12.550  
W 138 13.009  
\$@MID@\$: 374  
Date: Sun, 21 Sep 2008 22:45:02 +0000  
Record time: 2008-09-21T22:43  
Author: cre  
Type: Air Guns  
Subject: begin air gun retrieval  
Attachment:  
Encoding: ELCode

---

2243 hrs  
bringing the air guns in  
N 58 12.185  
W 138 12.222  
\$@MID@\$: 375  
Date: Sun, 21 Sep 2008 23:03:44 +0000  
Record time: 2008-09-21T23:02  
Author: cre  
Type: Manuvering  
Subject: course update  
Attachment:



Encoding: ELCode

=====

2302 hrs  
N 58 11.398  
W 13810.298  
speed 4.19 kts heading 130  
tension 3093  
\$@MID@\$: 376  
Date: Sun, 21 Sep 2008 23:28:44 +0000  
Record time: 2008-09-21T23:28  
Author: BPH  
Type: Air Guns  
Subject: Air guns aboard  
Attachment:  
Encoding: ELCode

=====

2327 All air guns aboard  
N 58 10.403  
W 138 08.020  
\$@MID@\$: 377  
Date: Sun, 21 Sep 2008 23:42:39 +0000  
Record time: 2008-09-21T23:40  
Author: cre  
Type: Streamer Recovery  
Subject: retrieving head float  
Attachment:  
Encoding: ELCode

=====

2340 hrs  
N 58 09.803  
W 138 06.805  
speed 3.88 heading 134  
tension 2837 lbs  
\$@MID@\$: 378  
Date: Sun, 21 Sep 2008 23:48:16 +0000  
Record time: 2008-09-21T23:47  
Author: cre  
Type: streamer  
Subject: streamer to 5 m  
Attachment:  
Encoding: ELCode

=====

2346 hrs  
N 58 09.600  
W 138 06.392  
speed 3.46 kts heading 134

tension 3605 lbs  
\$@MID@\$: 379  
Date: Sun, 21 Sep 2008 23:54:58 +0000  
Record time: 2008-09-21T23:53  
Author: lw  
Type: Watch Relief  
Subject: watch relief  
Attachment:  
Encoding: ELCode

=====

0000 hrs. watch relief. Seth Campbell having fun on streamer deck.  
Lindsay Worthington stuck in main lab.

\$@MID@\$: 380  
Date: Mon, 22 Sep 2008 00:08:20 +0000  
Record time: 2008-09-22T00:07  
Author: lw  
Type: MIDNIGHT  
Subject: midnight position  
Attachment:  
Encoding: ELCode

=====

N 58 09.08776  
W 138 05.3837  
Speed 3.38 Heading 134.7  
Tension 2239.8

Preparing to recover streamer.  
\$@MID@\$: 381  
Date: Mon, 22 Sep 2008 00:43:25 +0000  
Record time: 2008-09-22T00:43  
Author: lw  
Type: Streamer Recovery  
Subject: head float recovered  
Attachment:  
Encoding: ELCode

=====

head float recovered.  
\$@MID@\$: 382  
Date: Mon, 22 Sep 2008 00:44:18 +0000  
Record time: 2008-09-22T00:43  
Author: lw  
Type: Streamer Recovery  
Subject: streamer 1 powered down  
Attachment:  
Encoding: ELCode

=====

streamer 1 powered down  
\$@MID@\$: 383  
Date: Mon, 22 Sep 2008 00:52:46 +0000  
Record time: 2008-09-22T00:52  
Author: lw  
Type: Streamer Recovery  
Subject: stretch section recovered  
Attachment:  
Encoding: ELCode

---

yep.  
\$@MID@\$: 384  
Date: Mon, 22 Sep 2008 00:59:20 +0000  
Record time: 2008-09-22T00:58  
Author: lw  
Type: Streamer Recovery  
Subject: beginning streamer 1 recovery  
Attachment:  
Encoding: ELCode

---

beginning streamer 1 recovery  
\$@MID@\$: 385  
Date: Mon, 22 Sep 2008 01:01:55 +0000  
Record time: 2008-09-22T01:00  
Author: lw  
Type: Streamer Recovery  
Subject: bird 1 recovered  
Attachment:  
Encoding: ELCode

---

recovered bird 1  
\$@MID@\$: 386  
Date: Mon, 22 Sep 2008 01:16:23 +0000  
Record time: 2008-09-22T01:15  
Author: lw  
Type: Streamer Recovery  
Subject: recovered acoustic  
Attachment:  
Encoding: ELCode

---

acoustic recovered  
\$@MID@\$: 387  
Date: Mon, 22 Sep 2008 01:25:33 +0000  
Record time: 2008-09-22T01:24  
Author: lw  
Type: Streamer Recovery

Subject: request speed increase

Attachment:

Encoding: ELCode

---

tail of streamer dipping to 20m. request speed increase to 3.2 kts.

\$@MID@\$: 388

Date: Mon, 22 Sep 2008 01:26:14 +0000

Record time: 2008-09-22T01:25

Author: lw

Type: Streamer Recovery

Subject: bird 2 recovered

Attachment:

Encoding: ELCode

---

recovered bird 2

\$@MID@\$: 389

Date: Mon, 22 Sep 2008 01:41:55 +0000

Record time: 2008-09-22T01:41

Author: SC

Type: Bird

Subject: Bird 3 Recovered

Attachment:

Encoding: ELCode

---

Bird 3 recovered

\$@MID@\$: 390

Date: Mon, 22 Sep 2008 01:48:34 +0000

Record time: 2008-09-22T01:48

Author: SC

Type: Bird

Subject: Bird 4 Recovered

Attachment:

Encoding: ELCode

---

Bird 4 recovered

\$@MID@\$: 391

Date: Mon, 22 Sep 2008 02:05:44 +0000

Record time: 2008-09-22T02:04

Author: SC

Type: Bird

Subject: Bird 5 Recovered

Attachment:

Encoding: ELCode

---

Bird 5 Recovered

\$@MID@\$: 392

Date: Mon, 22 Sep 2008 02:18:31 +0000  
Record time: 2008-09-22T02:18  
Author: SC  
Type: Bird  
Subject: Bird 6 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 6 Recovered  
\$@MID@\$: 393  
Date: Mon, 22 Sep 2008 02:26:22 +0000  
Record time: 2008-09-22T02:25  
Author: SC  
Type: Bird  
Subject: Bird 7 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 7 Recovered  
\$@MID@\$: 394  
Date: Mon, 22 Sep 2008 02:33:49 +0000  
Record time: 2008-09-22T02:33  
Author: SC  
Type: Bird  
Subject: Bird 8 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 8 Recovered  
\$@MID@\$: 395  
Date: Mon, 22 Sep 2008 02:40:57 +0000  
Record time: 2008-09-22T02:40  
Author: SC  
Type: Bird  
Subject: Bird 9 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 9 recovered  
\$@MID@\$: 396  
Date: Mon, 22 Sep 2008 02:47:38 +0000  
Record time: 2008-09-22T02:47  
Author: SC  
Type: Bird  
Subject: Bird 10 Recovered  
Attachment:

Encoding: ELCode

=====

Bird 10 recovered

\$@MID@\$: 397

Date: Mon, 22 Sep 2008 02:54:36 +0000

Record time: 2008-09-22T02:54

Author: SC

Type: Bird

Subject: Bird 11 Recovered

Attachment:

Encoding: ELCode

=====

Bird 11 recovered

\$@MID@\$: 398

Date: Mon, 22 Sep 2008 03:00:48 +0000

Record time: 2008-09-22T03:00

Author: SC

Type: Bird

Subject: Bird 12 Recovered

Attachment:

Encoding: ELCode

=====

Bird 12 recovered

\$@MID@\$: 399

Date: Mon, 22 Sep 2008 03:14:04 +0000

Record time: 2008-09-22T03:13

Author: SC

Type: Bird

Subject: Bird 13 Recovered

Attachment:

Encoding: ELCode

=====

Bird 13 recovered

\$@MID@\$: 400

Date: Mon, 22 Sep 2008 03:22:13 +0000

Record time: 2008-09-22T03:21

Author: SC

Type: Bird

Subject: Bird 14 Recovered

Attachment:

Encoding: ELCode

=====

Bird 14 recovered

\$@MID@\$: 401

Date: Mon, 22 Sep 2008 03:28:52 +0000

Record time: 2008-09-22T03:28

Author: SC  
Type: Bird  
Subject: Bird 15 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 15 recovered  
\$@MID@\$: 402  
Date: Mon, 22 Sep 2008 03:35:16 +0000  
Record time: 2008-09-22T03:34  
Author: SC  
Type: Bird  
Subject: Bird 16 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 16 recovered  
\$@MID@\$: 403  
Date: Mon, 22 Sep 2008 03:42:33 +0000  
Record time: 2008-09-22T03:41  
Author: SC  
Type: Bird  
Subject: Bird 17 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 17 recovered  
\$@MID@\$: 404  
Date: Mon, 22 Sep 2008 03:46:55 +0000  
Record time: 2008-09-22T03:46  
Author: SC  
Type: Bird  
Subject: Bird 18 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 18 recovered  
\$@MID@\$: 405  
Date: Mon, 22 Sep 2008 03:51:42 +0000  
Record time: 2008-09-22T03:51  
Author: SC  
Type: Bird  
Subject: Bird 19 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 19 recovered  
\$@MID@\$: 406  
Date: Mon, 22 Sep 2008 03:57:52 +0000  
Record time: 2008-09-22T03:57  
Author: SC  
Type: Bird  
Subject: Bird 20 Recovered  
Attachment:  
Encoding: ELCode

---

Bird 20 recovered  
\$@MID@\$: 407  
Date: Mon, 22 Sep 2008 04:11:20 +0000  
Record time: 2008-09-22T04:05  
Author: rsr  
Type: Bird  
Subject: Bird 21 recovered.  
Attachment:  
Encoding: ELCode

---

Bird 21 recovered. 2km of streamer remaining  
\$@MID@\$: 408  
Date: Mon, 22 Sep 2008 04:31:20 +0000  
Record time: 2008-09-22T04:11  
Author: rsr  
Type: Bird  
Subject: Bird 22 recovered.  
Attachment:  
Encoding: ELCode

---

Bird 22 recovered.  
\$@MID@\$: 409  
Date: Mon, 22 Sep 2008 04:32:20 +0000  
Record time: 2008-09-22T04:20  
Author: rsr  
Type: Bird  
Subject: Bird 23 recovered.  
Attachment:  
Encoding: ELCode

---

Bird 23 recovered.  
\$@MID@\$: 410  
Date: Mon, 22 Sep 2008 04:33:50 +0000  
Record time: 2008-09-22T04:24  
Author: rsr  
Type: Bird



Subject: Bird 24 recovered.

Attachment:

Encoding: ELCode

---

Bird 24 recovered.

\$@MID@\$: 411

Date: Mon, 22 Sep 2008 04:34:13 +0000

Record time: 2008-09-22T04:29

Author: rsr

Type: Bird

Subject: Bird 25 recovered.

Attachment:

Encoding: ELCode

---

Bird 25 recovered.

\$@MID@\$: 412

Date: Mon, 22 Sep 2008 04:34:41 +0000

Record time: 2008-09-22T04:34

Author: rsr

Type: Bird

Subject: Bird 26 recovered.

Attachment:

Encoding: ELCode

---

Bird 26 recovered.

\$@MID@\$: 413

Date: Mon, 22 Sep 2008 04:54:40 +0000

Record time: 2008-09-22T04:37

Author: rsr

Type: Bird

Subject: Bird 27 recovered

Attachment:

Encoding: ELCode

---

Bird 27 recovered

\$@MID@\$: 414

Date: Mon, 22 Sep 2008 04:55:03 +0000

Record time: 2008-09-22T04:51

Author: rsr

Type: Tail buoy

Subject: Tail buoy recovered

Attachment:

Encoding: ELCode

---

Tail buoy recovered

\$@MID@\$: 415

Date: Mon, 22 Sep 2008 06:36:13 +0000  
Record time: 2008-09-22T06:35  
Author: rsr  
Type: Comment/Event  
Subject: EM120 Secured  
Attachment:  
Encoding: ELCode

---

EM120 secured.

\$@MID@\$: 416

Date: Mon, 22 Sep 2008 06:38:56 +0000  
Record time: 2008-09-22T06:37  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 25  
Attachment:  
Encoding: ELCode

---

OBS 25 release signal sent.

\$@MID@\$: 417

Date: Mon, 22 Sep 2008 06:53:46 +0000  
Record time: 2008-09-22T06:45  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 25  
Attachment:  
Encoding: ELCode

---

OBS 25 on surface

\$@MID@\$: 418

Date: Mon, 22 Sep 2008 06:54:50 +0000  
Record time: 2008-09-22T06:51  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 25 on board  
Attachment:  
Encoding: ELCode

---

OBS 25 on board

N 58 11.676'

W 138 11.038'

Depth 133m

\$@MID@\$: 419

Date: Mon, 22 Sep 2008 07:54:30 +0000  
Record time: 2008-09-22T07:46  
Author: rsr

Type: OBS Recovery  
Subject: OBS 24  
Attachment:  
Encoding: ELCode

---

OBS 24 release signal sent.  
\$@MID@\$: 420  
Date: Mon, 22 Sep 2008 07:55:00 +0000  
Record time: 2008-09-22T07:54  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 24  
Attachment:  
Encoding: ELCode

---

OBS 24 on surface.  
\$@MID@\$: 421  
Date: Mon, 22 Sep 2008 08:11:44 +0000  
Record time: 2008-09-22T08:10  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 24 Recovery  
Attachment:  
Encoding: ELCode

---

0807 OBS 24 on board  
N 58 16.620  
W 138 22.310  
Depth 135 m  
\$@MID@\$: 422  
Date: Mon, 22 Sep 2008 09:34:51 +0000  
Record time: 2008-09-22T09:14  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 23 Release signal sent  
Attachment:  
Encoding: ELCode

---

0914 OBS 23 release signal sent  
\$@MID@\$: 423  
Date: Mon, 22 Sep 2008 09:35:24 +0000  
Record time: 2008-09-22T09:16  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 23 on surface  
Attachment:

Encoding: ELCode

=====

0916 OBS 23 on surface

\$@MID@\$: 424

Date: Mon, 22 Sep 2008 09:36:21 +0000

Record time: 2008-09-22T09:27

Author: BPH

Type: OBS Recovery

Subject: OBS 23 on board

Attachment:

Encoding: ELCode

=====

0927 OBS 23 on board

N 58 21.404

W 138 33.658

Depth 109 m

\$@MID@\$: 425

Date: Mon, 22 Sep 2008 11:31:56 +0000

Record time: 2008-09-22T10:25

Author: BPH

Type: OBS Recovery

Subject: OBS 22 release signal

Attachment:

Encoding: ELCode

=====

1025 OBS 22 release signal sent

\$@MID@\$: 426

Date: Mon, 22 Sep 2008 11:32:28 +0000

Record time: 2008-09-22T10:40

Author: BPH

Type: OBS Recovery

Subject: OBS 22 release signal

Attachment:

Encoding: ELCode

=====

1040 OBS 22 release signal resent

\$@MID@\$: 427

Date: Mon, 22 Sep 2008 11:33:06 +0000

Record time: 2008-09-22T11:00

Author: BPH

Type: OBS Recovery

Subject: Transducer repair

Attachment:

Encoding: ELCode

=====

1100 repair to transducer, new battery needed, no signal

\$@MID@\$: 428  
Date: Mon, 22 Sep 2008 11:33:50 +0000  
Record time: 2008-09-22T11:12  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 22 release signal  
Attachment:  
Encoding: ELCode

---

1112 OBS 22 release signal resent  
\$@MID@\$: 429  
Date: Mon, 22 Sep 2008 11:35:05 +0000  
Record time: 2008-09-22T11:28  
Author: BPH  
Type: OBS Recovery  
Subject: abandon OBS 22  
Attachment:  
Encoding: ELCode

---

1128 OBS 22 recovery abandoned, moving to next OBS  
\$@MID@\$: 430  
Date: Mon, 22 Sep 2008 14:38:09 +0000  
Record time: 2008-09-22T12:21  
Author: sc  
Type: OBS Recovery  
Subject: OBS 21 release signal sent  
Attachment:  
Encoding: ELCode

---

OBS 21 release signal sent  
\$@MID@\$: 431  
Date: Mon, 22 Sep 2008 14:39:47 +0000  
Record time: 2008-09-22T13:02  
Author: sc  
Type: OBS Recovery  
Subject: transducer/OBS error  
Attachment:  
Encoding: ELCode

---

transducer on deck for teest  
\$@MID@\$: 432  
Date: Mon, 22 Sep 2008 14:40:35 +0000  
Record time: 2008-09-22T13:39  
Author: sc  
Type: OBS Recovery  
Subject: abandon OBS 21

Attachment:  
Encoding: ELCode

---

abandon OBS 21. transit to site OBS 20  
\$@MID@\$: 433  
Date: Mon, 22 Sep 2008 14:41:32 +0000  
Record time: 2008-09-22T14:40  
Author: lw  
Type: OBS Recovery  
Subject: on site for OBS 20  
Attachment:  
Encoding: ELCode

---

on site for OBS 20. sending transducer signal.  
\$@MID@\$: 434  
Date: Mon, 22 Sep 2008 14:51:20 +0000  
Record time: 2008-09-22T14:50  
Author: lw  
Type: OBS Recovery  
Subject: repeat signal for OBS 20  
Attachment:  
Encoding: ELCode

---

repeat signal for OBS 20  
\$@MID@\$: 435  
Date: Mon, 22 Sep 2008 14:55:36 +0000  
Record time: 2008-09-22T14:55  
Author: lw  
Type: OBS Recovery  
Subject: OBS 20 on surface  
Attachment:  
Encoding: ELCode

---

OBS 20 on surface  
\$@MID@\$: 436  
Date: Mon, 22 Sep 2008 15:06:55 +0000  
Record time: 2008-09-22T15:06  
Author: lw  
Type: OBS Recovery  
Subject: OBS 20 recovered  
Attachment:  
Encoding: ELCode

---

OBS 20 recovered, onboard  
\$@MID@\$: 437  
Date: Mon, 22 Sep 2008 15:28:08 +0000

Record time: 2008-09-22T15:27

Author: lw

Type: OBS Recovery

Subject: water in OBS 20

Attachment:

Encoding: ELCode

=====

water in OBS 20 sphere. battery acid/rust leak.

\$@MID@\$: 438

Date: Mon, 22 Sep 2008 16:01:33 +0000

Record time: 2008-09-22T15:59

Author: SC

Type: OBS Recovery

Subject: On site for OBS 19

Attachment:

Encoding: ELCode

=====

On site for OBS 19; transceiver in water and signal being transmitted

\$@MID@\$: 439

Date: Mon, 22 Sep 2008 16:02:39 +0000

Record time: 2008-09-22T16:02

Author: SC

Type: Watch Relief

Subject: Watch Relief

Attachment:

Encoding: ELCode

=====

Adam Barker and Bobby Reece on watch

\$@MID@\$: 440

Date: Mon, 22 Sep 2008 16:10:01 +0000

Record time: 2008-09-22T16:08

Author: ADB

Type: OBS Recovery

Subject: OBS 119 on surface

Attachment:

Encoding: ELCode

=====

OBS 119 on surface.

\$@MID@\$: 441

Date: Mon, 22 Sep 2008 16:21:05 +0000

Record time: 2008-09-22T16:17

Author: ADB

Type: OBS Recovery

Subject: OBS 119 on Board

Attachment:

Encoding: ELCode

=====

OBS 119 on board  
N 58 40.453  
W 139 19.610  
Depth 254 M  
\$@MID@\$: 442  
Date: Mon, 22 Sep 2008 17:12:33 +0000  
Record time: 2008-09-22T17:11  
Author: ADB  
Type: OBS Recovery  
Subject: On Site for OBS 118  
Attachment:  
Encoding: ELCode

=====

On Site for OBS 118. Transducer signal sent for recovery.  
\$@MID@\$: 443  
Date: Mon, 22 Sep 2008 17:21:00 +0000  
Record time: 2008-09-22T17:20  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 118 on Surface  
Attachment:  
Encoding: ELCode

=====

OBS 118 on surface  
\$@MID@\$: 444  
Date: Mon, 22 Sep 2008 17:31:47 +0000  
Record time: 2008-09-22T17:30  
Author: ADB  
Type: OBS Deployment  
Subject: OBS 118 on Board  
Attachment:  
Encoding: ELCode

=====

OBS 118 on deck  
N 58 45.189  
W 139 31.152  
Depth 168 m  
\$@MID@\$: 445  
Date: Mon, 22 Sep 2008 18:25:50 +0000  
Record time: 2008-09-22T18:25  
Author: ADB  
Type: OBS Recovery  
Subject: On Site for OBS 117  
Attachment:  
Encoding: ELCode



=====

On site for OBS 117 pickup. Transducer signal sent.

\$@MID@\$: 446

Date: Mon, 22 Sep 2008 18:33:57 +0000

Record time: 2008-09-22T18:33

Author: ADB

Type: OBS Recovery

Subject: OBS 117 on Surface

Attachment:

Encoding: ELCode

=====

OBS 117 on surface.

\$@MID@\$: 447

Date: Mon, 22 Sep 2008 18:41:57 +0000

Record time: 2008-09-22T18:39

Author: ADB

Type: OBS Recovery

Subject: OBS 117 on Deck

Attachment:

Encoding: ELCode

=====

OBS 117 recovered

N 58 49.911

W 139 42.844

Depth 164 m

\$@MID@\$: 448

Date: Mon, 22 Sep 2008 19:32:18 +0000

Record time: 2008-09-22T19:31

Author: ADB

Type: OBS Recovery

Subject: On site for OBS 116

Attachment:

Encoding: ELCode

=====

On site for OBS 116 pickup. Transducer signal sent.

\$@MID@\$: 449

Date: Mon, 22 Sep 2008 19:46:40 +0000

Record time: 2008-09-22T19:38

Author: ADB

Type: OBS Recovery

Subject: OBS 116 on Surface

Attachment:

Encoding: ELCode

=====

OBS 116 on Surface.

\$@MID@\$: 450

Date: Mon, 22 Sep 2008 19:48:43 +0000  
Record time: 2008-09-22T19:47  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 116 on Deck  
Attachment:  
Encoding: ELCode

---

OBS 116 on Deck  
N 58 54.624  
W 139 54.580  
Depth 156 m  
\$@MID@\$: 451  
Date: Mon, 22 Sep 2008 19:56:27 +0000  
Record time: 2008-09-22T19:55  
Author: cre  
Type: Watch Relief  
Subject: watch relief  
Attachment:  
Encoding: ELCode

---

1955 hrs  
watch relief: ryan elmore and ben hooks on  
\$@MID@\$: 452  
Date: Mon, 22 Sep 2008 20:45:27 +0000  
Record time: 2008-09-22T20:44  
Author: cre  
Type: OBS Recovery  
Subject: On site for OBS 115  
Attachment:  
Encoding: ELCode

---

2046 hrs  
On site for OBS 115 pickup. Transducer signal sent.  
\$@MID@\$: 453  
Date: Mon, 22 Sep 2008 21:04:37 +0000  
Record time: 2008-09-22T21:03  
Author: cre  
Type: OBS Recovery  
Subject: OBS 115 on surface  
Attachment:  
Encoding: ELCode

---

2051 hrs  
OBS 115 on Surface.  
\$@MID@\$: 454

Date: Mon, 22 Sep 2008 21:05:40 +0000  
Record time: 2008-09-22T21:04  
Author: cre  
Type: OBS Recovery  
Subject: OBS 115 on deck  
Attachment:  
Encoding: ELCode

---

2102 hrs  
N 58 59.290  
W 140 06.405  
Depth 149 m  
\$@MID@\$: 455  
Date: Mon, 22 Sep 2008 22:21:49 +0000  
Record time: 2008-09-22T22:20  
Author: cre  
Type: OBS Recovery  
Subject: Onsite for OBS 114  
Attachment:  
Encoding: ELCode

---

2158 hrs  
on site for OBS 114  
transducer in the water  
\$@MID@\$: 456  
Date: Mon, 22 Sep 2008 22:22:33 +0000  
Record time: 2008-09-22T22:21  
Author: cre  
Type: OBS Recovery  
Subject: OBS 114 on surface  
Attachment:  
Encoding: ELCode

---

2205 hrs  
OBS 114 on surface  
\$@MID@\$: 457  
Date: Mon, 22 Sep 2008 22:23:24 +0000  
Record time: 2008-09-22T22:22  
Author: cre  
Type: OBS Recovery  
Subject: OBS 114 on deck  
Attachment:  
Encoding: ELCode

---

2219 hrs  
N 59 03.798

W 140 18.191  
Depth 134 m  
\$@MID@\$: 458  
Date: Mon, 22 Sep 2008 23:39:44 +0000  
Record time: 2008-09-22T23:39  
Author: cre  
Type: OBS Recovery  
Subject: On site for OBS 113  
Attachment:  
Encoding: ELCode

---

2319 hrs  
on site for OBS 113  
\$@MID@\$: 459  
Date: Mon, 22 Sep 2008 23:40:15 +0000  
Record time: 2008-09-22T23:39  
Author: cre  
Type: OBS Recovery  
Subject: OBS 113 on surface  
Attachment:  
Encoding: ELCode

---

2323 hrs  
OBS 113 on surface  
\$@MID@\$: 460  
Date: Mon, 22 Sep 2008 23:41:15 +0000  
Record time: 2008-09-22T23:40  
Author: cre  
Type: OBS Deployment  
Subject: OBS 113 on deck  
Attachment:  
Encoding: ELCode

---

2331 hrs  
N 59 08.584  
W 140 30.586  
Depth 134 m  
\$@MID@\$: 461  
Date: Tue, 23 Sep 2008 00:01:03 +0000  
Record time: 2008-09-22T23:59  
Author: cre  
Type: MIDNIGHT  
Subject: Midnight position  
Attachment:  
Encoding: ELCode

---

N 59 11.076  
W140 36.238  
Speed 10.88 kts heading 309  
\$@MID@\$: 462  
Date: Tue, 23 Sep 2008 00:06:25 +0000  
Record time: 2008-09-23T00:00  
Author: SC  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

=====

Seth Campbell and Lindsay Worthington on Duty  
\$@MID@\$: 463  
Date: Tue, 23 Sep 2008 00:26:16 +0000  
Record time: 2008-09-23T00:32  
Author: SC  
Type: OBS Recovery  
Subject: OBS recovery; Transducer in water sending signal  
Attachment:  
Encoding: ELCode

=====

OBS recover; transducer in water sending signal to OBS 112  
\$@MID@\$: 464  
Date: Tue, 23 Sep 2008 01:20:41 +0000  
Record time: 2008-09-23T01:19  
Author: cre  
Type: OBS Recovery  
Subject: Giving up on OBS 112  
Attachment:  
Encoding: ELCode

=====

0119 hrs  
did not recover OBS 112; moving to next station  
\$@MID@\$: 465  
Date: Tue, 23 Sep 2008 02:11:26 +0000  
Record time: 2008-09-23T02:10  
Author: SC  
Type: OBS Recovery  
Subject: Radio becon transmitting  
Attachment:  
Encoding: ELCode

=====

Radio beacon transmitting on OBS 112; changing course toward OBS beacon  
for pickup  
\$@MID@\$: 466

Date: Tue, 23 Sep 2008 02:30:10 +0000  
Record time: 2008-09-23T02:29  
Author: SC  
Type: OBS Recovery  
Subject: OBS 112 Sighted; Enroute  
Attachment:  
Encoding: ELCode

---

OBS sighted; enroute  
\$@MID@\$: 467  
Date: Tue, 23 Sep 2008 02:44:57 +0000  
Record time: 2008-09-23T02:44  
Author: SC  
Type: OBS Recovery  
Subject: OBS 112 recovered; enroute to next OBS  
Attachment:  
Encoding: ELCode

---

OBS recovered; En-route to next OBS  
N 59 17 974  
W 140 47 240  
Depth 140 m  
\$@MID@\$: 468  
Date: Tue, 23 Sep 2008 03:14:57 +0000  
Record time: 2008-09-23T03:13  
Author: SC  
Type: OBS Recovery  
Subject: On sight for OBS 111 recovery; Transducer signal in water  
Attachment:  
Encoding: ELCode

---

On sight for OBS 111 recovery; sending signal with transducer  
\$@MID@\$: 469  
Date: Tue, 23 Sep 2008 03:23:40 +0000  
Record time: 2008-09-23T03:23  
Author: SC  
Type: OBS Recovery  
Subject: OBS 111 Sighted  
Attachment:  
Encoding: ELCode

---

OBS 111 sighted  
\$@MID@\$: 470  
Date: Tue, 23 Sep 2008 03:44:05 +0000  
Record time: 2008-09-23T03:43  
Author: SC

Type: Comment/Event  
Subject: OBS 111 on board  
Attachment:  
Encoding: ELCode

---

OBS 111 on board. In transit to next OBS  
N 59 17 94900  
W 140 54 27134  
Depth (no value displayed)  
\$@MID@\$: 471  
Date: Tue, 23 Sep 2008 04:38:33 +0000  
Record time: 2008-09-23T04:38  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 110  
Attachment:  
Encoding: ELCode

---

OBS 110. Release signal sent.  
\$@MID@\$: 472  
Date: Tue, 23 Sep 2008 04:49:21 +0000  
Record time: 2008-09-23T04:49  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 110  
Attachment:  
Encoding: ELCode

---

OBS 110 on surface  
\$@MID@\$: 473  
Date: Tue, 23 Sep 2008 05:06:52 +0000  
Record time: 2008-09-23T05:04  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 110 on board  
Attachment:  
Encoding: ELCode

---

OBS 110 recovered.  
N 59 22.587  
W 141 06.248  
Depth 275m  
\$@MID@\$: 474  
Date: Tue, 23 Sep 2008 06:01:08 +0000  
Record time: 2008-09-23T06:00  
Author: rsr

Type: OBS Recovery  
Subject: OBS 109  
Attachment:  
Encoding: ELCode

---

OBS 109 release signal sent  
\$@MID@\$: 475  
Date: Tue, 23 Sep 2008 06:09:04 +0000  
Record time: 2008-09-23T06:08  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 109  
Attachment:  
Encoding: ELCode

---

OBS 109 on the surface  
\$@MID@\$: 476  
Date: Tue, 23 Sep 2008 06:17:08 +0000  
Record time: 2008-09-23T06:15  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 109 on board  
Attachment:  
Encoding: ELCode

---

OBS 109 on board  
N 59 27.006  
W 141 18.463  
Depth 203m  
\$@MID@\$: 477  
Date: Tue, 23 Sep 2008 07:07:05 +0000  
Record time: 2008-09-23T07:06  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 108  
Attachment:  
Encoding: ELCode

---

OBS 108 release signal sent.  
\$@MID@\$: 478  
Date: Tue, 23 Sep 2008 07:30:26 +0000  
Record time: 2008-09-23T07:29  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 108 release signal resend  
Attachment:



Encoding: ELCode

=====

OBS 108 not yet sighted. Release signal resent.

\$@MID@\$: 479

Date: Tue, 23 Sep 2008 07:57:20 +0000

Record time: 2008-09-23T07:56

Author: BPH

Type: OBS Recovery

Subject: OBS 108 Signal resent

Attachment:

Encoding: ELCode

=====

0755 OBS 108 release signal resent

\$@MID@\$: 480

Date: Tue, 23 Sep 2008 08:22:11 +0000

Record time: 2008-09-23T08:21

Author: BPH

Type: OBS Recovery

Subject: OBS 108 signal resent

Attachment:

Encoding: ELCode

=====

0821 OBS 108 signal resent

N 59 31.621

W 141 30.609

\$@MID@\$: 481

Date: Tue, 23 Sep 2008 08:34:04 +0000

Record time: 2008-09-23T08:33

Author: BPH

Type: OBS Recovery

Subject: OBS 108 abandoned

Attachment:

Encoding: ELCode

=====

0833 OBS 108 abandoned, move on to next OBS

\$@MID@\$: 482

Date: Tue, 23 Sep 2008 09:19:52 +0000

Record time: 2008-09-23T09:27

Author: BPH

Type: OBS Recovery

Subject: OBS 107 release command sent

Attachment:

Encoding: ELCode

=====

0927 OBS 107 release command sent

\$@MID@\$: 483

Date: Tue, 23 Sep 2008 09:36:26 +0000

Record time: 2008-09-23T09:36

Author: BPH

Type: OBS Recovery

Subject: OBS 107 on surface

Attachment:

Encoding: ELCode

---

0936 OBS 107 sighted on surface

\$@MID@\$: 484

Date: Tue, 23 Sep 2008 09:45:23 +0000

Record time: 2008-09-23T09:44

Author: BPH

Type: OBS Recovery

Subject: OBS 107 onboard

Attachment:

Encoding: ELCode

---

0944 OBS 107 onboard

N 59 36.213

W 141 42.996

Depth 134 m

\$@MID@\$: 485

Date: Tue, 23 Sep 2008 10:36:59 +0000

Record time: 2008-09-23T10:37

Author: BPH

Type: OBS Recovery

Subject: OBS 106 release command sent

Attachment:

Encoding: ELCode

---

1037 OBS 106 release command sent

\$@MID@\$: 486

Date: Tue, 23 Sep 2008 10:45:29 +0000

Record time: 2008-09-23T10:45

Author: BPH

Type: OBS Recovery

Subject: OBS 106 on surface

Attachment:

Encoding: ELCode

---

1045 OBS 106 sighted on surface

\$@MID@\$: 487

Date: Tue, 23 Sep 2008 11:01:15 +0000

Record time: 2008-09-23T11:00

Author: BPH  
Type: OBS Recovery  
Subject: OBS 106 on board  
Attachment:  
Encoding: ELCode

---

1100 OBS 106 on board  
N 59 40.800  
W 141 55.527  
Depth 138 m  
\$@MID@\$: 488  
Date: Tue, 23 Sep 2008 11:44:18 +0000  
Record time: 2008-09-23T11:49  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 105 signal sent  
Attachment:  
Encoding: ELCode

---

1149 OBS 105 signal sent  
\$@MID@\$: 489  
Date: Tue, 23 Sep 2008 11:56:52 +0000  
Record time: 2008-09-23T11:56  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 105 on surface  
Attachment:  
Encoding: ELCode

---

1156 OBS 105 on surface  
\$@MID@\$: 490  
Date: Tue, 23 Sep 2008 12:13:22 +0000  
Record time: 2008-09-23T12:11  
Author: lw  
Type: OBS Recovery  
Subject: OBS 105 on board  
Attachment:  
Encoding: ELCode

---

1211 hrs  
N 59 45.30694  
W 142 07.72704  
depth 128 m  
\$@MID@\$: 491  
Date: Tue, 23 Sep 2008 13:00:20 +0000  
Record time: 2008-09-23T12:59

Author: lw  
Type: OBS Recovery  
Subject: OBS 104  
Attachment:  
Encoding: ELCode

---

1259 hrs  
sending release signal to OBS 104  
\$@MID@\$: 492  
Date: Tue, 23 Sep 2008 13:15:30 +0000  
Record time: 2008-09-23T13:15  
Author: lw  
Type: OBS Recovery  
Subject: OBS 104  
Attachment:  
Encoding: ELCode

---

resending release signal to OBS 104  
\$@MID@\$: 493  
Date: Tue, 23 Sep 2008 13:16:25 +0000  
Record time: 2008-09-23T13:15  
Author: lw  
Type: OBS Recovery  
Subject: OBS 104 on surface  
Attachment:  
Encoding: ELCode

---

1315 hrs  
OBS 104 on surface  
\$@MID@\$: 494  
Date: Tue, 23 Sep 2008 13:46:00 +0000  
Record time: 2008-09-23T13:44  
Author: lw  
Type: OBS Recovery  
Subject: OBS 104 on board  
Attachment:  
Encoding: ELCode

---

1344 hrs  
OBS 104 on board  
N 59 49.9485  
W 142 20.48614  
depth 145m  
\$@MID@\$: 495  
Date: Tue, 23 Sep 2008 14:29:24 +0000  
Record time: 2008-09-23T14:28

Author: lw  
Type: OBS Recovery  
Subject: OBS 103  
Attachment:  
Encoding: ELCode

---

1428 hrs. Sending release signal for OBS 103.

\$@MID@\$: 496

Date: Tue, 23 Sep 2008 14:52:47 +0000

Record time: 2008-09-23T14:52

Author: lw

Type: OBS Recovery

Subject: OBS 103

Attachment:

Encoding: ELCode

---

OBS 103 on surface

\$@MID@\$: 497

Date: Tue, 23 Sep 2008 15:20:06 +0000

Record time: 2008-09-23T15:17

Author: lw

Type: OBS Recovery

Subject: OBS 103 on board

Attachment:

Encoding: ELCode

---

1517 hrs. OBS 103 recovered

N 59 54.03691

W 142 33.066752

depth 117m

\$@MID@\$: 498

Date: Tue, 23 Sep 2008 16:04:16 +0000

Record time: 2008-09-23T16:03

Author: ADB

Type: OBS Recovery

Subject: On site for OBS 102

Attachment:

Encoding: ELCode

---

On site for OBS 102 pickup. Transducer in water and release command sent.

\$@MID@\$: 499

Date: Tue, 23 Sep 2008 16:21:52 +0000

Record time: 2008-09-23T16:21

Author: ADB

Type: OBS Recovery

Subject: OBS 102 Release Command Resent

Attachment:  
Encoding: ELCode

=====

OBS 102 Release Command Resent.  
\$@MID@\$: 500  
Date: Tue, 23 Sep 2008 16:33:57 +0000  
Record time: 2008-09-23T16:32  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 102 Release Command Resent  
Attachment:  
Encoding: ELCode

=====

OBS 102 Release Command Resent again.  
\$@MID@\$: 501  
Date: Tue, 23 Sep 2008 16:53:32 +0000  
Record time: 2008-09-23T16:53  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 102 Abandoned  
Attachment:  
Encoding: ELCode

=====

OBS 102 Abandoned. On route to OBS 101.  
\$@MID@\$: 502  
Date: Tue, 23 Sep 2008 17:36:52 +0000  
Record time: 2008-09-23T17:35  
Author: ADB  
Type: OBS Recovery  
Subject: On Site for OBS 101  
Attachment:  
Encoding: ELCode

=====

On Site for OBS 101 pickup. Transducer in the water and release command is sent.  
\$@MID@\$: 503  
Date: Tue, 23 Sep 2008 17:47:35 +0000  
Record time: 2008-09-23T17:47  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 101 on surface  
Attachment:  
Encoding: ELCode

=====

OBS 101 on surface  
\$@MID@\$: 504

Date: Tue, 23 Sep 2008 17:59:00 +0000  
Record time: 2008-09-23T17:56  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 101 on board  
Attachment:  
Encoding: ELCode

---

OBS 101 on board.  
N 60 02.889  
W 142 58.263  
Depth 69 m  
\$@MID@\$: 505  
Date: Tue, 23 Sep 2008 18:18:01 +0000  
Record time: 2008-09-23T18:15  
Author: ADB  
Type: T-5 XBT Launch  
Subject: XBT Launched  
Attachment:  
Encoding: ELCode

---

XBT Launched  
N 60 02.008  
W 142 58.539  
Depth 87 m  
\$@MID@\$: 506  
Date: Tue, 23 Sep 2008 18:22:45 +0000  
Record time: 2008-09-23T18:21  
Author: ADB  
Type: T-5 XBT Launch  
Subject: XBT out of the water  
Attachment:  
Encoding: ELCode

---

XBT out of the water. Beginning transit to STEEP02.  
\$@MID@\$: 507  
Date: Wed, 24 Sep 2008 00:27:38 +0000  
Record time: 2008-09-24T00:00  
Author: BM  
Type: MIDNIGHT  
Subject: Midnight position  
Attachment:  
Encoding: ELCode

---

58'59.570 N  
142'45.779 W

Depth 3253  
seas calm wind lite and variable  
\$@MID@\$: 508  
Date: Wed, 24 Sep 2008 05:58:46 +0000  
Record time: 2008-09-24T05:56  
Author: rsr  
Type: OBS Deployment  
Subject: OBS 218 Deployed  
Attachment:  
Encoding: ELCode

---

OBS 218 deployed.  
N 58 01.627  
W 142 35.922  
Depth 3727m  
Speed 1.18kts  
Heading 161  
\$@MID@\$: 509  
Date: Wed, 24 Sep 2008 06:06:40 +0000  
Record time: 2008-09-24T06:06  
Author: rsr  
Type: T-5 XBT Launch  
Subject: XBT launched  
Attachment:  
Encoding: ELCode

---

XBT launched.  
\$@MID@\$: 510  
Date: Wed, 24 Sep 2008 06:34:49 +0000  
Record time: 2008-09-24T06:16  
Author: rsr  
Type: Comment/Event  
Subject: XBT terminated  
Attachment:  
Encoding: ELCode

---

XBT terminated  
\$@MID@\$: 511  
Date: Wed, 24 Sep 2008 07:02:31 +0000  
Record time: 2008-09-24T07:01  
Author: rsr  
Type: OBS Deployment  
Subject: OBS 217 deployed  
Attachment:  
Encoding: ELCode

---



OBS 217 deployed.  
N 58 07.886  
W 142 26.308  
Depth 3784m  
Speed 0.81kts  
Heading 358  
\$@MID@\$: 512  
Date: Wed, 24 Sep 2008 07:54:39 +0000  
Record time: 2008-09-24T07:53  
Author: rsr  
Type: OBS Deployment  
Subject: OBS 216 deployed  
Attachment:  
Encoding: ELCode

---

OBS 216 deployed.  
N 58 14.130  
W 142 16.613  
Depth 3649m  
Speed 0.74kts  
Heading 14  
\$@MID@\$: 513  
Date: Wed, 24 Sep 2008 08:51:41 +0000  
Record time: 2008-09-24T08:50  
Author: BPH  
Type: OBS Deployment  
Subject: OBS 215 deployed  
Attachment:  
Encoding: ELCode

---

0850 OBS 215 deployed.  
N 58 20.351  
W 142 06.876  
Depth 3511m  
Speed 0.784kts  
Heading 20  
\$@MID@\$: 514  
Date: Wed, 24 Sep 2008 09:50:28 +0000  
Record time: 2008-09-24T09:49  
Author: BPH  
Type: OBS Deployment  
Subject: OBS 214 deployed  
Attachment:  
Encoding: ELCode

---

0949 OBS 214 deployed.

N 58 26.574  
W 142 57.047  
Depth 3511m  
Speed 1.06kts  
Heading 20.6  
\$@MID@\$: 515  
Date: Wed, 24 Sep 2008 10:47:33 +0000  
Record time: 2008-09-24T10:46  
Author: BPH  
Type: OBS Deployment  
Subject: OBS 213 deployed  
Attachment:  
Encoding: ELCode

=====

1046 OBS 213 deployed.

N 58 32.784  
W 141 48.206  
Depth 3492m  
Speed 1.22kts  
Heading 31.4  
\$@MID@\$: 516  
Date: Wed, 24 Sep 2008 11:44:01 +0000  
Record time: 2008-09-24T11:42  
Author: BPH  
Type: OBS Deployment  
Subject: OBS 212 Deployed  
Attachment:  
Encoding: ELCode

=====

1142 OBS 212 Deployment

N 58 38.977  
W 141 37.391  
Speed 1.67 kts  
Heading 77.4  
Depth 3456 m  
\$@MID@\$: 517  
Date: Wed, 24 Sep 2008 11:59:06 +0000  
Record time: 2008-09-24T11:58  
Author: SC  
Type: Watch Relief  
Subject: Watch Relief  
Attachment:  
Encoding: ELCode

=====

Seth Campbell and Lindsay Worthington on Duty  
\$@MID@\$: 518

Date: Wed, 24 Sep 2008 12:47:15 +0000  
Record time: 2008-09-24T12:45  
Author: SC  
Type: OBS Deployment  
Subject: OBS Deployment  
Attachment:  
Encoding: ELCode

---

1245 hrs OBS 211 deployment  
N 58 45 18216  
W 141 27 30194  
Depth 3076.68  
Speed 1.41  
Heading 117.22  
\$@MID@\$: 519

Date: Wed, 24 Sep 2008 13:42:04 +0000  
Record time: 2008-09-24T13:41  
Author: SC  
Type: T-5 XBT Launch  
Subject: XBT Probe Launch  
Attachment:  
Encoding: ELCode

---

Launched XBT Probe 200 m south of OBS 210 launch  
\$@MID@\$: 520  
Date: Wed, 24 Sep 2008 13:46:24 +0000  
Record time: 2008-09-24T13:45  
Author: SC  
Type: T-5 XBT Launch  
Subject: XBT Terminated  
Attachment:  
Encoding: ELCode

---

XBT terminated at 1500 m depth  
\$@MID@\$: 521  
Date: Wed, 24 Sep 2008 14:21:35 +0000  
Record time: 2008-09-24T14:20  
Author: SC  
Type: OBS Deployment  
Subject: OBS Deployment  
Attachment:  
Encoding: ELCode

---

OBS 210 deployed  
N 58 51 33975  
W 141 17 24060

Heading 142.21  
Speed 1.26  
Depth 1920  
\$@MID@\$: 522  
Date: Wed, 24 Sep 2008 15:24:26 +0000  
Record time: 2008-09-24T15:22  
Author: Sc  
Type: OBS Deployment  
Subject: OBS Deployment  
Attachment:  
Encoding: ELCode

---

OBS 209 deployed  
N 58 57 50007  
W 141 07 12214  
Depth 652  
Heading 41.86  
Speed 1.05  
\$@MID@\$: 523  
Date: Wed, 24 Sep 2008 16:20:08 +0000  
Record time: 2008-09-24T16:17  
Author: ADB  
Type: OBS Deployment  
Subject: OBS 208 Deployed  
Attachment:  
Encoding: ELCode

---

OBS 208 Deployed  
N 59 03.620  
W 140 56.985  
Heading 51.03  
Speed 1.3 kts Depth 190m  
\$@MID@\$: 524  
Date: Wed, 24 Sep 2008 17:16:19 +0000  
Record time: 2008-09-24T17:14  
Author: ADB  
Type: OBS Deployment  
Subject: OBS 207 Deployed  
Attachment:  
Encoding: ELCode

---

OBS 207 Deployed  
N 59 09.754  
W 140 46.789  
Heading 49.58  
Speed 0.4 kts Depth 88 m

\$@MID@\$: 525  
Date: Wed, 24 Sep 2008 18:25:02 +0000  
Record time: 2008-09-24T18:23  
Author: ADB  
Type: OBS Deployment  
Subject: OBS 206 Deployed  
Attachment:  
Encoding: ELCode

=====

OBS 206 Deployed  
N 59 15.860  
W 140 36.488  
Heading 121  
Speed 0.4 kts Depth 146 m  
\$@MID@\$: 526  
Date: Wed, 24 Sep 2008 19:22:02 +0000  
Record time: 2008-09-24T19:20  
Author: ADB  
Type: OBS Deployment  
Subject: OBS 205 Deployed  
Attachment:  
Encoding: ELCode

=====

OBS 205 Deployed  
N 59 21.960  
W 140 26.161  
Heading 72.90  
Speed 0.8 kts Depth 145 m  
\$@MID@\$: 527  
Date: Wed, 24 Sep 2008 20:18:41 +0000  
Record time: 2008-09-24T20:17  
Author: cre  
Type: OBS Deployment  
Subject: OBS 204 deployed  
Attachment:  
Encoding: ELCode

=====

2015 hrs  
N 59 28.026  
W 140 15.761  
Heading 61  
Speed 1.7 kts Depth 238 m  
\$@MID@\$: 528  
Date: Wed, 24 Sep 2008 20:24:40 +0000  
Record time: 2008-09-24T20:23  
Author: cre

Type: T-5 XBT Launch

Subject: XBT Launch

Attachment:

Encoding: ELCode

---

2021 hrs XBT probe deployed

n 59 28.219

W 140 15.459

Depth 231 m

\$@MID@\$: 529

Date: Wed, 24 Sep 2008 20:25:43 +0000

Record time: 2008-09-24T20:24

Author: cre

Type: T-5 XBT Launch

Subject: XBT terminated

Attachment:

Encoding: ELCode

---

2220 hrs terminate probe

\$@MID@\$: 530

Date: Wed, 24 Sep 2008 21:35:52 +0000

Record time: 2008-09-24T21:34

Author: cre

Type: OBS Deployment

Subject: OBS 203 deployed

Attachment:

Encoding: ELCode

---

2133 hrs

N 59 34.763

W 140 04.166

Speed 1.23 kts heading 39

Depth 125 m

\$@MID@\$: 531

Date: Wed, 24 Sep 2008 22:28:01 +0000

Record time: 2008-09-24T22:26

Author: cre

Type: OBS Deployment

Subject: OBS 202 deployed

Attachment:

Encoding: ELCode

---

2226 hrs

N 59 40.162

W 139 54.727

Speed 1.88 kts heading 57

Depth 108 m  
\$@MID@\$: 532  
Date: Thu, 25 Sep 2008 00:01:13 +0000  
Record time: 2008-09-25T00:00  
Author: lw  
Type: MIDNIGHT  
Subject: midnight position  
Attachment:  
Encoding: ELCode

---

N 59 38.852  
W 139 53.029  
Speed 10.05 Heading 15.77  
depth: 141.67  
\$@MID@\$: 533  
Date: Thu, 25 Sep 2008 01:03:58 +0000  
Record time: 2008-09-25T01:02  
Author: lw  
Type: OBS Deployment  
Subject: OBS 201 Deployment  
Attachment:  
Encoding: ELCode

---

N 59 46.203  
W 139 44.1294  
depth: 85.09  
heading: 11.07  
speed: 0.93 kts  
\$@MID@\$: 534  
Date: Thu, 25 Sep 2008 01:57:43 +0000  
Record time: 2008-09-25T01:56  
Author: SC  
Type: Air Guns  
Subject: Air gun deployed  
Attachment:  
Encoding: ELCode

---

String 4 deployed. S1G33 shooting.  
N 59 44 50902  
W 139 47 05341  
heading 231.67  
Depth 64  
Speed 3.75  
\$@MID@\$: 535  
Date: Thu, 25 Sep 2008 02:35:27 +0000  
Record time: 2008-09-25T02:34

Author: SC  
Type: Air Guns  
Subject: Air Guns Deployed  
Attachment:  
Encoding: ELCode

---

Air Gun Strings 1,3 and 4 deployed. Turning Langseth due east to deploy string 2.

N 59 42 74159

W 139 50 27605

Speed 4.16

Heading 234.90

Depth 55 m

\$@MID@\$: 536

Date: Thu, 25 Sep 2008 03:30:22 +0000

Record time: 2008-09-25T03:29

Author: SC

Type: Air Guns

Subject: Air Gun Deployed

Attachment:

Encoding: ELCode

---

Air Gun String # 2 deployed

N 59 44 59689

W 139 51 90690

Heading 27.09

Speed 4.15

depth 90 m

\$@MID@\$: 537

Date: Thu, 25 Sep 2008 03:34:46 +0000

Record time: 2008-09-25T03:33

Author: SC

Type: Air Guns

Subject: Air Gun Ramp Up

Attachment:

Encoding: ELCode

---

first shot for ramp up at 0333 hrs String 1 S1G03; Volume 40; Double volume every 5 minutes

\$@MID@\$: 538

Date: Thu, 25 Sep 2008 04:36:02 +0000

Record time: 2008-09-25T04:10

Author: ADB

Type: Air Guns

Subject: Ramp Up Complete

Attachment:



Encoding: ELCode

=====

Ramp Up Complete. Guns firing at full volume. Volume at 6560 cubic inches.

Depth 52.79m

\$@MID@\$: 539

Date: Thu, 25 Sep 2008 05:16:22 +0000

Record time: 2008-09-25T05:12

Author: ADB

Type: Start of Line

Subject: SOL STEEP02 OBS Phase

Attachment:

Encoding: ELCode

=====

SOL STEEP02 OBS Phase

NO STREAMER

N 59 46.230

W 139 44.134 FSP 1001

Depth 89 m Sea State: Calm

Heading 223.17 SOG 4.8 kts

\$@MID@\$: 540

Date: Thu, 25 Sep 2008 05:18:13 +0000

Record time: 2008-09-25T05:16

Author: ADB

Type: Magnitometer

Subject: Magnitometer Deployment

Attachment:

Encoding: ELCode

=====

Maggie deployment commences over the stern side.

\$@MID@\$: 541

Date: Thu, 25 Sep 2008 05:21:48 +0000

Record time: 2008-09-25T05:21

Author: ADB

Type: Magnitometer

Subject: Maggie in Water

Attachment:

Encoding: ELCode

=====

Maggie in the water.

\$@MID@\$: 542

Date: Thu, 25 Sep 2008 08:16:25 +0000

Record time: 2008-09-25T08:15

Author: BPH

Type: PC02/TSG

Subject: TSG converter box

Attachment:  
Encoding: ELCode

=====

0815 TSG converter box failing to send and receive, trouble shooting problem  
\$@MID@\$: 543

Date: Thu, 25 Sep 2008 11:48:13 +0000

Record time: 2008-09-25T11:47

Author: SC

Type: Watch Relief

Subject: Watch Relief

Attachment:

Encoding: ELCode

=====

Seth Campbell and Lindsay Worthington on duty  
N 59 21 90813

W 140 26 25870

Depth 143

Heading 218.26

Speed 5.06

\$@MID@\$: 544

Date: Thu, 25 Sep 2008 14:50:41 +0000

Record time: 2008-09-25T14:49

Author: SC

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

=====

N 59 10 75925

W 140 45 08734

Speed 5.31

Heading 220.70

Depth 164

\$@MID@\$: 545

Date: Thu, 25 Sep 2008 16:28:24 +0000

Record time: 2008-09-25T16:26

Author: ADB

Type: Air Guns

Subject: Air Gun Shut Off

Attachment:

Encoding: ELCode

=====

String 04 Gun 08 shut off due to timing errors and poor signature. New  
volume 6500 cubic inches.

SP 1679

\$@MID@\$: 546

Date: Thu, 25 Sep 2008 20:32:24 +0000  
Record time: 2008-09-25T20:28  
Author: cre  
Type: OBS crossing  
Subject: Crossed OBS 210  
Attachment:  
Encoding: ELCode

---

2028 hrs - not accurate (late)  
N 58 31.339  
W 140117.240  
Speed 5.0 kts heading 215  
Depth 2308 m  
\$@MID@\$: 547  
Date: Thu, 25 Sep 2008 21:43:59 +0000  
Record time: 2008-09-25T21:41  
Author: cre  
Type: OBS crossing  
Subject: Crossed OBS 211  
Attachment:  
Encoding: ELCode

---

2000 hrs  
N 58 45.000  
W 141 27.589  
Speed 4.3 kts heading 214  
Depth 3106 m  
\$@MID@\$: 548  
Date: Thu, 25 Sep 2008 23:20:03 +0000  
Record time: 2008-09-25T23:18  
Author: cre  
Type: OBS crossing  
Subject: Crossed OBS 212  
Attachment:  
Encoding: ELCode

---

2318 hrs  
N 58 38.972  
W 141 37.314  
Speed 5.01 kts heading 213  
Depth 3457 m  
\$@MID@\$: 549  
Date: Fri, 26 Sep 2008 00:03:45 +0000  
Record time: 2008-09-25T23:59  
Author: lw  
Type: MIDNIGHT

Subject: midnight position and Watch Relief

Attachment:

Encoding: ELCode

---

Seth Campbell and Lindsay Worthington on Duty

N 58 36.35285

W 141 41.49967

Heading: 217.02 Speed: 5.13

Depth: 3474.56

\$@MID@\$: 550

Date: Fri, 26 Sep 2008 00:57:01 +0000

Record time: 2008-09-26T00:55

Author: SC

Type: Course Update

Subject: Crossed OBS 213

Attachment:

Encoding: ELCode

---

00:55 hrs

N 58 32 75262

W 141 47 28235

Speed 5.26

Heading 217.05

Depth 3496

\$@MID@\$: 551

Date: Fri, 26 Sep 2008 02:32:57 +0000

Record time: 2008-09-26T02:31

Author: SC

Type: Course Update

Subject: Crossed OBS 214

Attachment:

Encoding: ELCode

---

N 58 26 53138

W 141 57 15817

Heading 213.02

Speed 4.89

Depth 3512 m

\$@MID@\$: 552

Date: Fri, 26 Sep 2008 04:09:19 +0000

Record time: 2008-09-26T04:07

Author: ADB

Type: OBS crossing

Subject: Crossed OBS 215

Attachment:

Encoding: ELCode

=====  
Crossed OBS 215  
N 58 20.316  
W 142 06.959  
Heading 212.22 Depth 3507.84 m  
SOG 5.0 kts  
\$@MID@\$: 553  
Date: Fri, 26 Sep 2008 04:41:13 +0000  
Record time: 2008-09-24T23:35  
Author: RE  
Type: Pilot  
Subject: Pilot  
Attachment:  
Encoding: ELCode  
=====

Pilot for Yakutat bay aboard  
\$@MID@\$: 554  
Date: Fri, 26 Sep 2008 05:48:22 +0000  
Record time: 2008-09-26T05:47  
Author: rsr  
Type: OBS crossing  
Subject: Crossed OBS 216  
Attachment:  
Encoding: ELCode  
=====

Crossed OBS 216  
N 58 14.086  
W 142 16.694  
Depth 3651m  
SOG 4.9kts  
Heading 212.6  
\$@MID@\$: 555  
Date: Fri, 26 Sep 2008 07:27:05 +0000  
Record time: 2008-09-26T07:26  
Author: rsr  
Type: OBS crossing  
Subject: Crossed OBS 217  
Attachment:  
Encoding: ELCode  
=====

Crossed OBS 217  
N 58 07.846  
W 142 26.374  
Depth 3787m  
SOG 4.9kts  
Heading 213.13

\$@MID@\$: 556  
Date: Fri, 26 Sep 2008 09:01:42 +0000  
Record time: 2008-09-26T09:03  
Author: BPH  
Type: Comment/Event  
Subject: Crossing OBS 218  
Attachment:  
Encoding: ELCode

---

0903 Crossed OBS 218  
N 58 01.657  
W 142 35.927  
Depth 3730m  
SOG 5.1kts  
Heading 207.65  
\$@MID@\$: 557  
Date: Fri, 26 Sep 2008 09:02:17 +0000  
Record time: 2008-09-26T09:01  
Author: BPH  
Type: Magnetometer  
Subject: Maggie off  
Attachment:  
Encoding: ELCode

---

0902 maggie is turned off  
\$@MID@\$: 558  
Date: Fri, 26 Sep 2008 09:07:45 +0000  
Record time: 2008-09-26T09:07  
Author: BPH  
Type: Magnetometer  
Subject: Maggie on deck  
Attachment:  
Encoding: ELCode

---

0906 maggie on deck  
\$@MID@\$: 559  
Date: Fri, 26 Sep 2008 09:09:02 +0000  
Record time: 2008-09-26T09:07  
Author: BPH  
Type: End of Line  
Subject: EOL STEEP2 OBS phase  
Attachment:  
Encoding: ELCode

---

0906 EOL STEEP2 OBS phase

N 58 01.412 W 142 36.281  
STW 5.36 kts  
depth 3726 m  
heading 209.8

gun volume 6500 cu in  
no streamer  
\$@MID@\$: 560  
Date: Fri, 26 Sep 2008 09:10:25 +0000  
Record time: 2008-09-26T09:06  
Author: BPH  
Type: Air Guns  
Subject: Air guns off  
Attachment:  
Encoding: ELCode

---

906 air guns turned off  
\$@MID@\$: 561  
Date: Fri, 26 Sep 2008 09:12:49 +0000  
Record time: 2008-09-26T09:12  
Author: BPH  
Type: Pam and Maggie  
Subject: PAM onboard  
Attachment:  
Encoding: ELCode

---

0912 PAM onboard  
\$@MID@\$: 562  
Date: Fri, 26 Sep 2008 09:16:52 +0000  
Record time: 2008-09-26T09:16  
Author: BPH  
Type: Air Guns  
Subject: Start recovery of air guns  
Attachment:  
Encoding: ELCode

---

0916 start recovery of air guns  
\$@MID@\$: 563  
Date: Fri, 26 Sep 2008 09:43:24 +0000  
Record time: 2008-09-26T09:42  
Author: BPH  
Type: Air Guns  
Subject: First gun string in  
Attachment:  
Encoding: ELCode

---

0943 First gun string in  
\$@MID@\$: 564  
Date: Fri, 26 Sep 2008 10:27:15 +0000  
Record time: 2008-09-26T10:26  
Author: MBM  
Type: Air Guns  
Subject: airgun string  
Attachment:  
Encoding: ELCode

---

02:15  
2nd airgun string on deck  
\$@MID@\$: 565  
Date: Fri, 26 Sep 2008 10:36:18 +0000  
Record time: 2008-09-26T10:35  
Author: BPH  
Type: Air Guns  
Subject: third gun string aboard  
Attachment:  
Encoding: ELCode

---

1036 third gun string has been brought aboard  
\$@MID@\$: 566  
Date: Fri, 26 Sep 2008 10:50:13 +0000  
Record time: 2008-09-26T10:49  
Author: BPH  
Type: Air Guns  
Subject: Fourth string aboard  
Attachment:  
Encoding: ELCode

---

1049 Fourth string aboard, all strings now recovered.  
\$@MID@\$: 567  
Date: Fri, 26 Sep 2008 10:51:13 +0000  
Record time: 2008-09-26T10:50  
Author: BPH  
Type: OBS Recovery  
Subject: Transit to OBS 218  
Attachment:  
Encoding: ELCode

---

1051 begin transit to OBS 218 location  
\$@MID@\$: 568  
Date: Fri, 26 Sep 2008 10:57:00 +0000  
Record time: 2008-09-26T10:56  
Author: BPH



Type: Seismic Air Compressor  
Subject: shut down compressor  
Attachment:  
Encoding: ELCode

---

1056 shut down compressor requested by gunners  
\$@MID@\$: 569  
Date: Fri, 26 Sep 2008 11:21:07 +0000  
Record time: 2008-09-25T04:10  
Author: RE  
Type: PAM  
Subject: Pam Deployed  
Attachment:  
Encoding: ELCode

---

Pam deployed and in position  
\$@MID@\$: 570  
Date: Fri, 26 Sep 2008 11:21:51 +0000  
Record time: 2008-09-25T07:18  
Author: RE  
Type: Pilot  
Subject: Pilot away  
Attachment:  
Encoding: ELCode

---

Pilot off the vessel  
\$@MID@\$: 571  
Date: Fri, 26 Sep 2008 11:38:51 +0000  
Record time: 2008-09-26T11:38  
Author: BPH  
Type: OBS Recovery  
Subject: Signal sent OBS 218  
Attachment:  
Encoding: ELCode

---

1138 OBS 218 signal sent  
\$@MID@\$: 572  
Date: Fri, 26 Sep 2008 13:10:14 +0000  
Record time: 2008-09-26T13:09  
Author: lw  
Type: OBS Recovery  
Subject: OBS 218 on surface  
Attachment:  
Encoding: ELCode

---

OBS 218 on surface

\$@MID@\$: 573  
Date: Fri, 26 Sep 2008 13:32:46 +0000  
Record time: 2008-09-26T13:31  
Author: lw  
Type: OBS Recovery  
Subject: OBS 218 on board  
Attachment:  
Encoding: ELCode

---

N 58 01.66329  
W 142 35.79781  
Depth: 3732.48  
\$@MID@\$: 574  
Date: Fri, 26 Sep 2008 14:41:30 +0000  
Record time: 2008-09-26T14:40  
Author: lw  
Type: OBS Recovery  
Subject: OBS 217--sending release signal  
Attachment:  
Encoding: ELCode

---

Sending release signal for OBS 217  
\$@MID@\$: 575  
Date: Fri, 26 Sep 2008 16:09:24 +0000  
Record time: 2008-09-26T16:09  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 217 on Surface  
Attachment:  
Encoding: ELCode

---

OBS 217 on Surface  
\$@MID@\$: 576  
Date: Fri, 26 Sep 2008 16:21:28 +0000  
Record time: 2008-09-26T16:19  
Author: ADB  
Type: OBS Deployment  
Subject: OBS 217 on Board  
Attachment:  
Encoding: ELCode

---

OBS 217 on Board  
N 58 07.987  
W 142 26.253  
Depth 3781 m  
\$@MID@\$: 577

Date: Fri, 26 Sep 2008 17:21:54 +0000  
Record time: 2008-09-26T17:20  
Author: ADB  
Type: OBS Recovery  
Subject: Recovery signal sent for OBS 216  
Attachment:  
Encoding: ELCode

---

On site to pick up OBS 216. Transducer in water and recovery signal sent.  
\$@MID@\$: 578

Date: Fri, 26 Sep 2008 17:46:00 +0000  
Record time: 2008-09-26T17:44  
Author: ADB  
Type: OBS Deployment  
Subject: Transducer out of water  
Attachment:  
Encoding: ELCode

---

Transducer out of water. Ship pulling back to await OBS surfacing.  
\$@MID@\$: 579

Date: Fri, 26 Sep 2008 18:08:10 +0000  
Record time: 2008-09-26T18:07  
Author: ADB  
Type: Air Guns  
Subject: Gun String 02 Powered Up for Testing  
Attachment:  
Encoding: ELCode

---

String 02 powered up to test for solenoid errors on Guns 5 and 4.  
\$@MID@\$: 580

Date: Fri, 26 Sep 2008 18:10:50 +0000  
Record time: 2008-09-26T18:09  
Author: ADB  
Type: Air Guns  
Subject: Test Complete String 02 OFF  
Attachment:  
Encoding: ELCode

---

Gun 4 and 5 tests complete, string 02 powered down.  
\$@MID@\$: 581

Date: Fri, 26 Sep 2008 18:19:31 +0000  
Record time: 2008-09-26T18:18  
Author: ADB  
Type: Air Guns  
Subject: Gun String 01 Powered Up for Testing  
Attachment:

Encoding: ELCode

=====

String 01 powered up to test guns 5 and 4.

\$@MID@\$: 582

Date: Fri, 26 Sep 2008 18:20:34 +0000

Record time: 2008-09-26T18:19

Author: ADB

Type: Air Guns

Subject: Test Complete String 01 OFF

Attachment:

Encoding: ELCode

=====

Testing of guns 4 and 5 on string 01 complete. String 01 powered down.

\$@MID@\$: 583

Date: Fri, 26 Sep 2008 18:25:04 +0000

Record time: 2008-09-26T18:23

Author: ADB

Type: Multibeam

Subject: EM-120 shut down

Attachment:

Encoding: ELCode

=====

EM-120 shut down to prevent signal interference during OBS recovery.

\$@MID@\$: 584

Date: Fri, 26 Sep 2008 18:30:29 +0000

Record time: 2008-09-26T18:30

Author: ADB

Type: OBS Recovery

Subject: OBS 216 on Surface

Attachment:

Encoding: ELCode

=====

OBS 216 on Surface

\$@MID@\$: 585

Date: Fri, 26 Sep 2008 18:33:53 +0000

Record time: 2008-09-26T18:31

Author: ADB

Type: OBS Recovery

Subject: OBS 216 on Board

Attachment:

Encoding: ELCode

=====

OBS 216 on Board

N 58 14.187

W 142 16.430

Depth unavailable

\$@MID@\$: 586  
Date: Fri, 26 Sep 2008 19:34:31 +0000  
Record time: 2008-09-26T19:32  
Author: ADB  
Type: OBS Recovery  
Subject: Recovery signal sent for OBS 215  
Attachment:  
Encoding: ELCode

---

On site for OBS 215 Recovery. Transducer in the water and recovery signal sent.

\$@MID@\$: 587  
Date: Fri, 26 Sep 2008 21:22:12 +0000  
Record time: 2008-09-26T21:21  
Author: cre  
Type: OBS Recovery  
Subject: OBS 215 on surface  
Attachment:  
Encoding: ELCode

---

2103 hrs  
OBS 215 on surface

\$@MID@\$: 588  
Date: Fri, 26 Sep 2008 21:24:46 +0000  
Record time: 2008-09-26T21:22  
Author: cre  
Type: OBS Recovery  
Subject: OBS 215 on board  
Attachment:  
Encoding: ELCode

---

2116 hrs  
N 58 20.625  
W 142 07.311  
Speed 1.47 kts heading 206

\$@MID@\$: 589  
Date: Fri, 26 Sep 2008 22:25:35 +0000  
Record time: 2008-09-26T22:24  
Author: cre  
Type: OBS Recovery  
Subject: On sight for OBS 214  
Attachment:  
Encoding: ELCode

---

2223 hrs  
On sight for OS214 and transducer signal sent.

\$@MID@\$: 591

Date: Sat, 27 Sep 2008 00:09:39 +0000

Record time: 2008-09-27T00:08

Author: SC

Type: Course Update

Subject: Midnight position and Watch Relief

Attachment:

Encoding: ELCode

---

N 58 26 62831

W 141 57 28010

Heading 142.12

Speed 1.41

Depth: no display

Watch relief by Seth Campbell and Lindsay Worthington @ 2400 hrs.

\$@MID@\$: 592

Date: Sat, 27 Sep 2008 00:45:06 +0000

Record time: 2008-09-27T00:44

Author: SC

Type: OBS Recovery

Subject: Abandoning OBS 214 @ 00:44 hrs

Attachment:

Encoding: ELCode

---

Abandoning OBS 214 @ 00:44 hrs. En-route to OBS 213 @ 00:45 hrs expected arrival at 01:40 hrs UTC

\$@MID@\$: 593

Date: Sat, 27 Sep 2008 01:45:09 +0000

Record time: 2008-09-27T01:44

Author: SC

Type: OBS Recovery

Subject: On sight for OBS 213

Attachment:

Encoding: ELCode

---

On sight for OBS 213. Transducer in water sending signal

N 58 32 81531

W 141 47 13609

Speed .28

Heading 114.60

Depth no reading

\$@MID@\$: 594

Date: Sat, 27 Sep 2008 03:02:49 +0000

Record time: 2008-09-27T03:02

Author: SC

Type: OBS Recovery  
Subject: OBS 213 on Surface  
Attachment:  
Encoding: ELCode

---

OBS 213 on surface  
N 58 32 79144  
W 141 47 61679  
\$@MID@\$: 595  
Date: Sat, 27 Sep 2008 03:14:37 +0000  
Record time: 2008-09-27T03:14  
Author: SC  
Type: OBS Recovery  
Subject: OBS 213 on board  
Attachment:  
Encoding: ELCode

---

OBS 213 on Board  
N 58 32 88064  
W 141 47 53814  
\$@MID@\$: 596  
Date: Sat, 27 Sep 2008 03:17:16 +0000  
Record time: 2008-09-27T03:16  
Author: SC  
Type: OBS Recovery  
Subject: Deck secured; en-route to OBS 212  
Attachment:  
Encoding: ELCode

---

Deck secured; en-route to OBS 212  
\$@MID@\$: 597  
Date: Sat, 27 Sep 2008 04:25:27 +0000  
Record time: 2008-09-27T04:24  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 212  
Attachment:  
Encoding: ELCode

---

OBS 212. Transducer in the water. Release signal sent.  
N 58 39.038  
W 141 37.309  
SOGnd 1.6kts  
Heading 195.82  
Depth no reading  
\$@MID@\$: 598

Date: Sat, 27 Sep 2008 05:39:11 +0000  
Record time: 2008-09-27T05:37  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 212  
Attachment:  
Encoding: ELCode

---

OBS 212 on surface  
N 58 39.187  
W 141 47.428  
SOG 1.1kts  
Heading 90.5  
Depth no reading  
\$@MID@\$: 599  
Date: Sat, 27 Sep 2008 05:48:28 +0000  
Record time: 2008-09-27T05:48  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 212 on board  
Attachment:  
Encoding: ELCode

---

OBS 212 on board  
N 58 39.084  
W 141 37.744  
SOG 1.6kts  
Heading 179  
Depth no reading  
\$@MID@\$: 600  
Date: Sat, 27 Sep 2008 06:52:59 +0000  
Record time: 2008-09-27T06:51  
Author: rsr  
Type: OBS Recovery  
Subject: OBS 211  
Attachment:  
Encoding: ELCode

---

OBS 211 release signal sent.  
N 58 45.142  
W 141 27.390  
SOG 1.5kts  
Heading 191.7  
Depth no reading  
\$@MID@\$: 601  
Date: Sat, 27 Sep 2008 09:01:10 +0000



Record time: 2008-09-27T08:32  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 211 sighted  
Attachment:  
Encoding: ELCode

---

0832 OBS 211 sighted on surface  
\$@MID@\$: 602  
Date: Sat, 27 Sep 2008 09:02:35 +0000  
Record time: 2008-09-27T08:57  
Author: BPh  
Type: OBS Recovery  
Subject: OBS 211 on board  
Attachment:  
Encoding: ELCode

---

0857 OBS 211 onboard

N 58 45.487  
W 141 28.390  
Heading 227  
SOG 1.6 kts  
Depth n/a  
\$@MID@\$: 603  
Date: Sat, 27 Sep 2008 10:00:51 +0000  
Record time: 2008-09-27T10:00  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 210 release signal sent  
Attachment:  
Encoding: ELCode

---

0959 OBS 210 release signal sent  
\$@MID@\$: 604  
Date: Sat, 27 Sep 2008 10:53:47 +0000  
Record time: 2008-09-27T10:42  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 210 on surface  
Attachment:  
Encoding: ELCode

---

1042 OBS 210 reported on the surface  
\$@MID@\$: 605  
Date: Sat, 27 Sep 2008 10:55:04 +0000

Record time: 2008-09-27T10:53  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 210 onboard  
Attachment:  
Encoding: ELCode

=====

1052 OBS 210 onboard  
N 58 51.355  
W 141 17.668  
Heading 195  
Speed 1.5 kts SOG  
Depth n/a  
\$@MID@\$: 606  
Date: Sat, 27 Sep 2008 11:54:55 +0000  
Record time: 2008-09-27T11:54  
Author: BPH  
Type: OBS Recovery  
Subject: OBS 209 signal sent  
Attachment:  
Encoding: ELCode

=====

1154 OBS 209 release signal sent  
\$@MID@\$: 607  
Date: Sat, 27 Sep 2008 12:13:14 +0000  
Record time: 2008-09-27T12:12  
Author: lw  
Type: OBS Recovery  
Subject: OBS 209 on surface  
Attachment:  
Encoding: ELCode

=====

OBS 209 on surface.  
\$@MID@\$: 608  
Date: Sat, 27 Sep 2008 12:33:23 +0000  
Record time: 2008-09-27T12:27  
Author: lw  
Type: OBS Recovery  
Subject: OBS 209 on board  
Attachment:  
Encoding: ELCode

=====

OBS 209 on board  
N 58 57.578  
W 141 07.5666  
\$@MID@\$: 609

Date: Sat, 27 Sep 2008 13:44:22 +0000  
Record time: 2008-09-27T13:43  
Author: lw  
Type: OBS Recovery  
Subject: OBS 208--sending release signal  
Attachment:  
Encoding: ELCode

=====

release signal sent for OBS 208

\$@MID@\$: 610

Date: Sat, 27 Sep 2008 13:48:13 +0000

Record time: 2008-09-27T13:47

Author: lw

Type: OBS Recovery

Subject: OBS 208 on surface

Attachment:

Encoding: ELCode

=====

OBS 208 on surface

\$@MID@\$: 611

Date: Sat, 27 Sep 2008 13:58:05 +0000

Record time: 2008-09-27T13:57

Author: lw

Type: OBS Recovery

Subject: OBS 208 on board

Attachment:

Encoding: ELCode

=====

OBS 208 on board

N 59 03.63708

W 140 57.18637

\$@MID@\$: 612

Date: Sat, 27 Sep 2008 14:58:40 +0000

Record time: 2008-09-27T14:58

Author: lw

Type: OBS Recovery

Subject: OBS 207--sending signal

Attachment:

Encoding: ELCode

=====

Sending release signal for OBS 207.

\$@MID@\$: 613

Date: Sat, 27 Sep 2008 15:07:29 +0000

Record time: 2008-09-27T15:06

Author: lw

Type: OBS Recovery

Subject: OBS 207 on surface  
Attachment:  
Encoding: ELCode

---

OBS 207 sighted on surface  
\$@MID@\$: 614  
Date: Sat, 27 Sep 2008 15:14:50 +0000  
Record time: 2008-09-27T15:13  
Author: lw  
Type: OBS Recovery  
Subject: OBS 207 on board  
Attachment:  
Encoding: ELCode

---

OBS 207 recovered, on board.  
N 59 09.76938  
W 140 46.90160  
\$@MID@\$: 615  
Date: Sat, 27 Sep 2008 16:13:25 +0000  
Record time: 2008-09-27T16:11  
Author: ADB  
Type: OBS Recovery  
Subject: On site for OBS 206 Pick-up  
Attachment:  
Encoding: ELCode

---

On site for OBS 206 Pick-up. Transducer in water and recovery signal sent.  
\$@MID@\$: 616  
Date: Sat, 27 Sep 2008 16:24:52 +0000  
Record time: 2008-09-27T16:24  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 206 on Surface  
Attachment:  
Encoding: ELCode

---

OBS 206 on Surface  
\$@MID@\$: 617  
Date: Sat, 27 Sep 2008 16:32:30 +0000  
Record time: 2008-09-27T16:30  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 206 Recovered  
Attachment:  
Encoding: ELCode

---

OBS 206 on board.  
N 59 15.889  
W 140 36.578  
Heading: 170.92 SOG: 0.5 kts  
Depth: No Reading  
\$@MID@\$: 618  
Date: Sat, 27 Sep 2008 17:29:23 +0000  
Record time: 2008-09-27T17:28  
Author: ADB  
Type: OBS Recovery  
Subject: On Site for OBS 205 Recovery  
Attachment:  
Encoding: ELCode

---

On Site for OBS 205 Recovery. Transducer in water and recovery signal sent.

\$@MID@\$: 619  
Date: Sat, 27 Sep 2008 17:45:07 +0000  
Record time: 2008-09-27T17:40  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 205 on surface  
Attachment:  
Encoding: ELCode

---

OBS 205 on surface  
\$@MID@\$: 620  
Date: Sat, 27 Sep 2008 17:51:06 +0000  
Record time: 2008-09-27T17:49  
Author: ADB  
Type: OBS Recovery  
Subject: OBS 205 Recovered  
Attachment:  
Encoding: ELCode

---

OBS 205 on board.  
N 59 22.007  
W 140 26.385  
Heading: 211.362 SOG: 0.9 kts  
Depth: No Reading  
\$@MID@\$: 621  
Date: Sat, 27 Sep 2008 18:48:45 +0000  
Record time: 2008-09-27T18:46  
Author: ADB  
Type: OBS Recovery  
Subject: On Site for OBS 205 Recovery

Attachment:  
Encoding: ELCode

=====

Recovery Signal for OBS 204 Pick-up. Transducer in water and recovery signal sent.

\$@MID@\$: 622

Date: Sat, 27 Sep 2008 18:57:41 +0000

Record time: 2008-09-27T18:56

Author: ADB

Type: OBS Recovery

Subject: OBS 204 on Surface

Attachment:

Encoding: ELCode

=====

OBS 204 on Surface

\$@MID@\$: 623

Date: Sat, 27 Sep 2008 19:04:01 +0000

Record time: 2008-09-27T19:02

Author: ADB

Type: OBS Recovery

Subject: OBS 204 on Board

Attachment:

Encoding: ELCode

=====

OBS 204 on Board

N 59 28.103

W 140 16.245

Heading: 223.48 SOG:2.3

Depth: No reading

\$@MID@\$: 624

Date: Sat, 27 Sep 2008 19:14:53 +0000

Record time: 2008-09-27T19:12

Author: ADB

Type: course change

Subject: Course Change

Attachment:

Encoding: ELCode

=====

Course change during OBS pickup between OBS 204 and 203. Ship will deviate ~185m west from course to avoid shallow seas.

N 59 28.937

W 140 14.825

Heading: 50.25 SOG: 10.0

\$@MID@\$: 625

Date: Sat, 27 Sep 2008 19:45:20 +0000

Record time: 2008-09-27T19:44

Author: ADB  
Type: Comment/Event  
Subject: Passing Sill  
Attachment:  
Encoding: ELCode

---

Ship speed decreased to 5 kts as we pass the sill.

N 59 33.333

W 140 06.909

Heading: 140

\$@MID@\$: 626

Date: Sat, 27 Sep 2008 20:17:34 +0000

Record time: 2008-09-27T20:16

Author: cre

Type: OBS Recovery

Subject: On site for OBS 203

Attachment:

Encoding: ELCode

---

2015 hrs

On site for OBS 203; transducer signal sent.

\$@MID@\$: 627

Date: Sat, 27 Sep 2008 20:23:08 +0000

Record time: 2008-09-27T20:22

Author: cre

Type: OBS Recovery

Subject: OBS 203 on surface

Attachment:

Encoding: ELCode

---

2022 hrs

OBS 203 on surface

\$@MID@\$: 628

Date: Sat, 27 Sep 2008 20:36:30 +0000

Record time: 2008-09-27T20:35

Author: cre

Type: OBS Recovery

Subject: OBS 203 on board

Attachment:

Encoding: ELCode

---

2034 hrs

N 59 34.759

W 140 04.277

Speed 1.93 kts heading 205

\$@MID@\$: 629

Date: Sat, 27 Sep 2008 21:29:49 +0000  
Record time: 2008-09-27T21:28  
Author: cre  
Type: FRC Boat  
Subject: Rescue Boat Deployed  
Attachment:  
Encoding: ELCode

---

2126 hrs  
N 59 36.600  
W 139 51.861  
Sitting still.  
\$@MID@\$: 630  
Date: Sat, 27 Sep 2008 23:45:07 +0000  
Record time: 2008-09-27T23:44  
Author: cre  
Type: Pilot  
Subject: Pilot on Board  
Attachment:  
Encoding: ELCode

---

2342 hrs  
N 59 34.009  
W 139 49.266  
\$@MID@\$: 631  
Date: Sat, 27 Sep 2008 23:55:22 +0000  
Record time: 2008-09-27T23:54  
Author: lw  
Type: Comment/Event  
Subject: rescue boat on board  
Attachment:  
Encoding: ELCode

---

rescue boat on board  
\$@MID@\$: 632  
Date: Sun, 28 Sep 2008 00:08:04 +0000  
Record time: 2008-09-28T00:06  
Author: lw  
Type: MIDNIGHT  
Subject: midnight position and Shift Change  
Attachment:  
Encoding: ELCode

---

SC and Lindsay Worthington on shift at 2400 hrs

N 59 35.49733



W 139 50.33770  
depth: 107 m  
speed: 10.02  
heading: 0.88  
\$@MID@\$: 633  
Date: Sun, 28 Sep 2008 01:07:42 +0000  
Record time: 2008-09-28T01:00  
Author: SC  
Type: OBS Recovery  
Subject: OBS Recovery  
Attachment:  
Encoding: ELCode

---

On site for OBS 202. Transducer signal sent  
N 59 39 96929  
W 139 54 90340  
depth no value  
\$@MID@\$: 634  
Date: Sun, 28 Sep 2008 01:08:28 +0000  
Record time: 2008-09-28T01:05  
Author: SC  
Type: OBS Recovery  
Subject: OBS on surface  
Attachment:  
Encoding: ELCode

---

OBS 202 on surface  
\$@MID@\$: 635  
Date: Sun, 28 Sep 2008 01:18:35 +0000  
Record time: 2008-09-28T01:17  
Author: SC  
Type: OBS Recovery  
Subject: OBS 202 onboard  
Attachment:  
Encoding: ELCode

---

OBS 202 onboard; enroute to OBS 201; deck secured  
\$@MID@\$: 636  
Date: Sun, 28 Sep 2008 02:30:48 +0000  
Record time: 2008-09-28T02:30  
Author: SC  
Type: OBS Recovery  
Subject: On site for OBS 201  
Attachment:  
Encoding: ELCode

---

On site for OBS 201. Transducer in water sending signal

N 59 46 20957

W 139 44 34138

Depth 79 m

\$@MID@\$: 637

Date: Sun, 28 Sep 2008 02:33:44 +0000

Record time: 2008-09-28T02:32

Author: SC

Type: OBS Recovery

Subject: Transducer on board

Attachment:

Encoding: ELCode

=====

Transducer on board. Waiting for OBS to surface

\$@MID@\$: 638

Date: Sun, 28 Sep 2008 02:37:49 +0000

Record time: 2008-09-28T02:37

Author: SC

Type: OBS Recovery

Subject: OBS 201 on surface

Attachment:

Encoding: ELCode

=====

OBS 201 on surface

\$@MID@\$: 639

Date: Sun, 28 Sep 2008 02:40:51 +0000

Record time: 2008-09-28T02:40

Author: SC

Type: OBS Recovery

Subject: OBS 201 on Board

Attachment:

Encoding: ELCode

=====

OBS 201 on board. STEEP02 OBS recovery complete. Deck secured

\$@MID@\$: 640

Date: Sun, 28 Sep 2008 02:46:18 +0000

Record time: 2008-09-28T02:44

Author: SC

Type: Multibeam

Subject: EM 120 back online

Attachment:

Encoding: ELCode

=====

EM 120 back online

\$@MID@\$: 641

Date: Sun, 28 Sep 2008 04:43:32 +0000

Record time: 2008-09-28T04:41  
Author: ADB  
Type: Comment/Event  
Subject: Speed Increase  
Attachment:  
Encoding: ELCode

---

Increasing speed to 10 kts while exiting Yakutat Bay.  
N 59 43.043  
W 139 47.932  
Depth 68m  
Heading 266.14  
\$@MID@\$: 642  
Date: Sun, 28 Sep 2008 06:47:07 +0000  
Record time: 2008-09-28T06:45  
Author: rsr  
Type: Tail buoy  
Subject: Tail buoy deployed  
Attachment:  
Encoding: ELCode

---

Tail buoy deployed.  
N 59 31.566  
W 140 16.695  
Heading 198  
Depth 198m  
SOG 3.8 kts  
\$@MID@\$: 643  
Date: Sun, 28 Sep 2008 06:59:42 +0000  
Record time: 2008-09-28T06:59  
Author: rsr  
Type: streamer  
Subject: First acoustic  
Attachment:  
Encoding: ELCode

---

First acoustic- S1T4.  
\$@MID@\$: 644  
Date: Sun, 28 Sep 2008 07:07:48 +0000  
Record time: 2008-09-28T06:31  
Author: rsr  
Type: Comment/Event  
Subject: Speed decrease  
Attachment:  
Encoding: ELCode

---

Decreased speed. STW: 3.5 kts  
\$@MID@\$: 645  
Date: Sun, 28 Sep 2008 08:30:06 +0000  
Record time: 2008-09-28T08:29  
Author: BPH  
Type: streamer  
Subject: Streamer 2 attached to Streamer 1  
Attachment:  
Encoding: ELCode

---

0829 last 14 sections of streamer 2 attached to streamer 1 to make it 8.1 km

\$@MID@\$: 646  
Date: Sun, 28 Sep 2008 09:18:44 +0000  
Record time: 2008-09-28T09:11  
Author: bph  
Type: streamer  
Subject: checking streamer 1 optics  
Attachment:  
Encoding: ELCode

---

0911 connected deployed portion of streamer 1 to streamer 2 to ensure optics are good.

\$@MID@\$: 647  
Date: Sun, 28 Sep 2008 09:22:55 +0000  
Record time: 2008-09-28T09:20  
Author: BPH  
Type: streamer  
Subject: Clean connection  
Attachment:  
Encoding: ELCode

---

0920 pick up deployed streamer to connection between streamer 1 and streamer 2 in order to clean connection

\$@MID@\$: 648  
Date: Sun, 28 Sep 2008 09:43:12 +0000  
Record time: 2008-09-28T09:42  
Author: bph  
Type: streamer  
Subject: Changed out 15th can  
Attachment:  
Encoding: ELCode

---

0942 ordered change out of 15th can on streamer 2 due to malfunction

\$@MID@\$: 649  
Date: Sun, 28 Sep 2008 10:03:10 +0000

Record time: 2008-09-28T10:02

Author: bph

Type: streamer

Subject: Can change failed

Attachment:

Encoding: ELCode

=====

1002 can change failed, replace original can, attempt to bypass bad can by connecting next section to streamer 2 to test the deployed streamer

\$@MID@\$: 650

Date: Sun, 28 Sep 2008 10:26:10 +0000

Record time: 2008-09-28T10:25

Author: bph

Type: streamer

Subject: Trouble shooting streamer

Attachment:

Encoding: ELCode

=====

1025 streamer trouble unresolved, continue trouble shooting

\$@MID@\$: 651

Date: Sun, 28 Sep 2008 11:20:26 +0000

Record time: 2008-09-28T11:18

Author: bph

Type: Manuvering

Subject: Begin turn

Attachment:

Encoding: ELCode

=====

1118 initiate 3 degree turn

N 59 21.634

W 140 03.297

STW 3.28 kts

Heading 137

Depth 174 m

\$@MID@\$: 652

Date: Sun, 28 Sep 2008 11:56:19 +0000

Record time: 2008-09-28T11:55

Author: lw

Type: streamer

Subject: new ferrel at head of section 14

Attachment:

Encoding: ELCode

=====

Ferrel switched at head of streamer section Active 14.

\$@MID@\$: 653

Date: Sun, 28 Sep 2008 12:19:10 +0000  
Record time: 2008-09-28T12:18  
Author: lw  
Type: Streamer Deployment  
Subject: continuing deployment  
Attachment:  
Encoding: ELCode

---

Streamer powered up. Continuing streamer deployment.

\$@MID@\$: 654

Date: Sun, 28 Sep 2008 12:19:57 +0000  
Record time: 2008-09-28T12:19  
Author: lw  
Type: Bird  
Subject: Bird 21 on streamer  
Attachment:  
Encoding: ELCode

---

Bird 21 attached, responding.

\$@MID@\$: 655

Date: Sun, 28 Sep 2008 12:29:53 +0000  
Record time: 2008-09-28T12:28  
Author: lw  
Type: course change  
Subject: finishing turn  
Attachment:  
Encoding: ELCode

---

Finished 3 degree turn.

N 59 20.82986

W 140 07.84549

STW 3.57

heading 311.48

depth: 164.9

\$@MID@\$: 656

Date: Sun, 28 Sep 2008 12:31:37 +0000  
Record time: 2008-09-28T12:31  
Author: lw  
Type: Bird  
Subject: Bird 19 on streamer  
Attachment:  
Encoding: ELCode

---

Bird 19 is on the streamer. Responding.

\$@MID@\$: 657

Date: Sun, 28 Sep 2008 12:38:43 +0000

Record time: 2008-09-28T12:38  
Author: lw  
Type: Bird  
Subject: Bird 18 on streamer  
Attachment:  
Encoding: ELCode

---

Bird 18 on streamer. Responding.  
\$@MID@\$: 658  
Date: Sun, 28 Sep 2008 12:45:08 +0000  
Record time: 2008-09-28T12:44  
Author: lw  
Type: Bird  
Subject: Bird 17 on streamer  
Attachment:  
Encoding: ELCode

---

Bird 17 on streamer.  
\$@MID@\$: 659  
Date: Sun, 28 Sep 2008 12:46:06 +0000  
Record time: 2008-09-28T12:45  
Author: lw  
Type: Speed request  
Subject: Request speed increase  
Attachment:  
Encoding: ELCode

---

Speed increase to STW 3.8.  
\$@MID@\$: 660  
Date: Sun, 28 Sep 2008 13:01:34 +0000  
Record time: 2008-09-28T13:00  
Author: lw  
Type: Bird  
Subject: Bird 16 on streamer  
Attachment:  
Encoding: ELCode

---

Bird 16 on streamer. Responding.  
\$@MID@\$: 661  
Date: Sun, 28 Sep 2008 13:24:24 +0000  
Record time: 2008-09-28T13:23  
Author: lw  
Type: Bird  
Subject: bird 13 on streamer  
Attachment:  
Encoding: ELCode

=====  
Bird 13 on streamer. Responding.  
\$@MID@\$: 662  
Date: Sun, 28 Sep 2008 13:48:18 +0000  
Record time: 2008-09-28T13:47  
Author: lw  
Type: Bird  
Subject: Bird 10 on Streamer  
Attachment:  
Encoding: ELCode  
=====

Bird 10 on streamer. Responding.  
\$@MID@\$: 663  
Date: Sun, 28 Sep 2008 13:56:27 +0000  
Record time: 2008-09-28T13:55  
Author: lw  
Type: course change  
Subject: beginning turn  
Attachment:  
Encoding: ELCode  
=====

Beginning turn.  
N 59 24.25904  
W 140 16.120009  
depth: 191.93  
heading: 312.54  
STW: 4.06  
\$@MID@\$: 664  
Date: Sun, 28 Sep 2008 14:07:47 +0000  
Record time: 2008-09-28T14:07  
Author: lw  
Type: Bird  
Subject: Bird 7 on streamer  
Attachment:  
Encoding: ELCode  
=====

Bird 7 on streamer. Responding.  
\$@MID@\$: 665  
Date: Sun, 28 Sep 2008 14:09:42 +0000  
Record time: 2008-09-28T14:08  
Author: lw  
Type: Course Update  
Subject: Finishing turn  
Attachment:  
Encoding: ELCode  
=====



Finishing turn.  
N 59 24.92484  
W 140 17.09310  
Depth 206.32  
Heading 341.45  
STW 3.97  
\$@MID@\$: 666  
Date: Sun, 28 Sep 2008 14:25:01 +0000  
Record time: 2008-09-28T14:24  
Author: lw  
Type: streamer  
Subject: bad coil bird 5  
Attachment:  
Encoding: ELCode

---

\$@MID@\$: 667  
Date: Sun, 28 Sep 2008 14:37:39 +0000  
Record time: 2008-09-28T14:37  
Author: lw  
Type: Bird  
Subject: not reading bird 4 and 3 coils  
Attachment:  
Encoding: ELCode

---

Bird 3 and Bird 4 coils not responding.  
\$@MID@\$: 668  
Date: Sun, 28 Sep 2008 14:40:36 +0000  
Record time: 2008-09-28T14:39  
Author: lw  
Type: streamer  
Subject: retrieving streamer to bird 5  
Attachment:  
Encoding: ELCode

---

Retrieving cable to bad coil/bird 5.  
\$@MID@\$: 669  
Date: Sun, 28 Sep 2008 14:50:10 +0000  
Record time: 2008-09-28T14:49  
Author: lw  
Type: Bird  
Subject: Bird 5 not responding  
Attachment:  
Encoding: ELCode

---

No response on re-test of Bird 5.

\$@MID@\$: 670

Date: Sun, 28 Sep 2008 14:51:19 +0000

Record time: 2008-09-28T14:50

Author: lw

Type: Bird

Subject: Bird 4 not responding

Attachment:

Encoding: ELCode

---

No response on bird 4.

\$@MID@\$: 671

Date: Sun, 28 Sep 2008 14:56:45 +0000

Record time: 2008-09-28T14:56

Author: lw

Type: streamer

Subject: changing streamer section

Attachment:

Encoding: ELCode

---

Changing streamer section due to consecutive bad bird coils.

\$@MID@\$: 672

Date: Sun, 28 Sep 2008 15:40:19 +0000

Record time: 2008-09-28T15:39

Author: lw

Type: streamer

Subject: finished changing streamer section

Attachment:

Encoding: ELCode

---

Changed streamer section. Section #10430 on streamer. Section 10941 off.

\$@MID@\$: 673

Date: Sun, 28 Sep 2008 16:01:14 +0000

Record time: 2008-09-28T15:59

Author: ADB

Type: course change

Subject: Ship Turning

Attachment:

Encoding: ELCode

---

Beginning slow turn to port

N 59 31.179

W 140 18.760

Heading: 40.37

Depth: 211.67 m Sog: 3.0 kts

\$@MID@\$: 674

Date: Sun, 28 Sep 2008 16:08:39 +0000

Record time: 2008-09-28T16:08  
Author: ADB  
Type: Bird  
Subject: Bird 4 on Streamer  
Attachment:  
Encoding: ELCode

---

Bird 4 on streamer and responding.  
\$@MID@\$: 675  
Date: Sun, 28 Sep 2008 16:12:12 +0000  
Record time: 2008-09-28T16:10  
Author: ADB  
Type: Bird  
Subject: Bird 3 on Streamer  
Attachment:  
Encoding: ELCode

---

Bird 3 on streamer and responding.  
\$@MID@\$: 676  
Date: Sun, 28 Sep 2008 16:20:08 +0000  
Record time: 2008-09-28T16:19  
Author: ADB  
Type: Bird  
Subject: Bird 2 on Streamer  
Attachment:  
Encoding: ELCode

---

Bird 2 on streamer and responding.  
\$@MID@\$: 677  
Date: Sun, 28 Sep 2008 16:23:39 +0000  
Record time: 2008-09-28T16:22  
Author: ADB  
Type: Comment/Event  
Subject: Acoustics 2 on Streamer  
Attachment:  
Encoding: ELCode

---

Acoustics 02 on streamer and responding  
\$@MID@\$: 678  
Date: Sun, 28 Sep 2008 16:25:14 +0000  
Record time: 2008-09-28T16:24  
Author: ADB  
Type: streamer  
Subject: Changing Steamer Section  
Attachment:  
Encoding: ELCode

=====  
Changing streamer section due to previous damage.

\$@MID@\$: 679

Date: Sun, 28 Sep 2008 16:27:45 +0000

Record time: 2008-09-28T16:26

Author: ADB

Type: streamer

Subject: Streamer Powered Down

Attachment:

Encoding: ELCode  
=====

Streamer powered down.

\$@MID@\$: 680

Date: Sun, 28 Sep 2008 16:58:21 +0000

Record time: 2008-09-28T16:57

Author: ADB

Type: streamer

Subject: Streamer Changed and Powered Up

Attachment:

Encoding: ELCode  
=====

Streamer change complete. Streamer powered up and tested.

\$@MID@\$: 681

Date: Sun, 28 Sep 2008 17:04:16 +0000

Record time: 2008-09-28T17:03

Author: ADB

Type: course change

Subject: Ship Turning

Attachment:

Encoding: ELCode  
=====

Ship beginning starboard turn at 4 deg/min

\$@MID@\$: 682

Date: Sun, 28 Sep 2008 17:07:48 +0000

Record time: 2008-09-28T17:06

Author: ADB

Type: streamer

Subject: Acoustics 2 Back on Streamer

Attachment:

Encoding: ELCode  
=====

Acoustics 2 back on streamer after being removed during streamer change.

\$@MID@\$: 683

Date: Sun, 28 Sep 2008 17:11:06 +0000

Record time: 2008-09-28T17:10

Author: ADB

Type: streamer  
Subject: Acoustics 01 on Streamer  
Attachment:  
Encoding: ELCode

---

Acoustics 01 on streamer and responding.  
\$@MID@\$: 684  
Date: Sun, 28 Sep 2008 17:14:18 +0000  
Record time: 2008-09-28T17:13  
Author: ADB  
Type: streamer  
Subject: Bird 1 on Streamer  
Attachment:  
Encoding: ELCode

---

Bird 1 on Streamer and responding  
\$@MID@\$: 685  
Date: Sun, 28 Sep 2008 17:30:04 +0000  
Record time: 2008-09-28T17:29  
Author: ADB  
Type: streamer  
Subject: Streamer Powered Down  
Attachment:  
Encoding: ELCode

---

Streamer Powered Down  
\$@MID@\$: 686  
Date: Sun, 28 Sep 2008 17:57:07 +0000  
Record time: 2008-09-28T17:56  
Author: ADB  
Type: course change  
Subject: Turn Finished  
Attachment:  
Encoding: ELCode

---

Turn Finished staying on heading 130.  
N 59 35.088  
W 140 25.456  
Depth: 191m Sog: 2.8 kts  
\$@MID@\$: 687  
Date: Sun, 28 Sep 2008 18:02:01 +0000  
Record time: 2008-09-28T18:01  
Author: ADB  
Type: streamer  
Subject: Stretch Attached  
Attachment:

Encoding: ELCode

---

Stretch attached to streamer. Streamer powered up.

New Can: 45030 put on.

\$@MID@\$: 688

Date: Sun, 28 Sep 2008 18:15:36 +0000

Record time: 2008-09-28T18:15

Author: ADB

Type: streamer

Subject: Streamer Powered Down

Attachment:

Encoding: ELCode

---

Streamer Powered Down

\$@MID@\$: 689

Date: Sun, 28 Sep 2008 18:25:26 +0000

Record time: 2008-09-28T18:24

Author: ADB

Type: streamer

Subject: Removing Can

Attachment:

Encoding: ELCode

---

Removing Can # 45030 due to malfunction.

\$@MID@\$: 690

Date: Sun, 28 Sep 2008 18:28:22 +0000

Record time: 2008-09-28T18:28

Author: ADB

Type: streamer

Subject: Streamer Powered Up

Attachment:

Encoding: ELCode

---

Streamer Powered Up. Can # 45028 attached.

\$@MID@\$: 691

Date: Sun, 28 Sep 2008 18:35:56 +0000

Record time: 2008-09-28T18:34

Author: ADB

Type: Speed request

Subject: Speed Increase

Attachment:

Encoding: ELCode

---

Increasing speed to 4.5 kts; however, speed will be lessened if 4000 lbs of tension exceeded.

\$@MID@\$: 692

Date: Sun, 28 Sep 2008 19:04:50 +0000  
Record time: 2008-09-28T19:03  
Author: ADB  
Type: course change  
Subject: Ship Turning  
Attachment:  
Encoding: ELCode

---

Starting port turn to enter Yakutat Bay.  
\$@MID@\$: 693  
Date: Sun, 28 Sep 2008 19:42:25 +0000  
Record time: 2008-09-28T19:41  
Author: ADB  
Type: streamer  
Subject: Streamer Deployment Complete  
Attachment:  
Encoding: ELCode

---

Streamer Deployment Complete  
\$@MID@\$: 694  
Date: Sun, 28 Sep 2008 19:45:42 +0000  
Record time: 2008-09-28T19:44  
Author: ADB  
Type: Compressor  
Subject: Compressor Ramping Up  
Attachment:  
Encoding: ELCode

---

Compressor ramping up.  
\$@MID@\$: 695  
Date: Sun, 28 Sep 2008 20:01:31 +0000  
Record time: 2008-09-28T20:00  
Author: bph  
Type: Course Update  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

2000 course update preparing to enter Yakutat bay  
N 59 33.178  
W 140 14.965  
Depth 138m  
Heading 51 Speed 4.78 kts (STW)  
Tension 3972 lbs  
\$@MID@\$: 696  
Date: Sun, 28 Sep 2008 20:02:47 +0000

Record time: 2008-09-28T20:02  
Author: bph  
Type: Air Guns  
Subject: deploying first string of air guns  
Attachment:  
Encoding: ELCode

=====

2002 begin deploying first string of air guns (gun string 4)

\$@MID@\$: 697

Date: Sun, 28 Sep 2008 20:32:03 +0000

Record time: 2008-09-28T20:30

Author: bph

Type: Course Update

Subject: Course update

Attachment:

Encoding: ELCode

=====

2030 course update

N 59 34.792

W 140 11.753

Heading 72

Speed 4.51 kts STW

Tension 3875 lbs

Depth 73 m

\$@MID@\$: 698

Date: Sun, 28 Sep 2008 20:33:06 +0000

Record time: 2008-09-28T20:32

Author: bph

Type: Air Guns

Subject: Begin deployment of second string

Attachment:

Encoding: ELCode

=====

2032 begin deploying the second string of air guns (gun string 3).

\$@MID@\$: 699

Date: Sun, 28 Sep 2008 20:49:39 +0000

Record time: 2008-09-28T20:48

Author: bph

Type: Manuvering

Subject: crossing the sill

Attachment:

Encoding: ELCode

=====

2048 Crossing the sill

N 59 35.512

W 140 09.769



heading 46.5  
depth 31m  
speed 4.4 kts STW  
tension 3860lbs  
\$@MID@\$: 700  
Date: Sun, 28 Sep 2008 21:01:44 +0000  
Record time: 2008-09-28T21:00  
Author: bph  
Type: Manuvering  
Subject: course update  
Attachment:  
Encoding: ELCode

---

2100 course update  
N 59 36.138  
W 140 08.659  
Heading 43  
Speed 3.97 kts STW  
Depth 45m  
Tension 3330 lbs  
\$@MID@\$: 701  
Date: Sun, 28 Sep 2008 21:02:29 +0000  
Record time: 2008-09-28T21:01  
Author: bph  
Type: Bird  
Subject: streamer depth set  
Attachment:  
Encoding: ELCode

---

2101 bird depth set to 6 m  
\$@MID@\$: 702  
Date: Sun, 28 Sep 2008 21:20:34 +0000  
Record time: 2008-09-28T21:19  
Author: bph  
Type: Manuvering  
Subject: third gun string  
Attachment:  
Encoding: ELCode

---

2119 third string of guns going in (string 1)  
\$@MID@\$: 703  
Date: Sun, 28 Sep 2008 21:31:15 +0000  
Record time: 2008-09-28T21:30  
Author: bph  
Type: Course Update

Subject: Course update

Attachment:

Encoding: ELCode

---

2130 course update

N 59 37.647

W 140 06.076

Speed 4.20 kts STW

heading 44

Depth 157m

Tension 3860 lbs

\$@MID@\$: 704

Date: Sun, 28 Sep 2008 21:59:02 +0000

Record time: 2008-09-28T21:55

Author: bph

Type: Air Guns

Subject: 4th gun string being deployed

Attachment:

Encoding: ELCode

---

2155 fourth gun string being deployed (string 2)

\$@MID@\$: 705

Date: Sun, 28 Sep 2008 22:04:55 +0000

Record time: 2008-09-28T22:03

Author: bph

Type: Course Update

Subject: course update

Attachment:

Encoding: ELCode

---

2203 Course update

N 59 39.493

W 140 03.594

Heading 33.7

Speed 4.16 kts STW

depth 145m

Tension 3576lbs

\$@MID@\$: 706

Date: Sun, 28 Sep 2008 22:18:13 +0000

Record time: 2008-09-28T22:17

Author: bph

Type: Air Guns

Subject: all gun strings deployed

Attachment:

Encoding: ELCode

---

2217 all four gun strings completely deployed.

\$@MID@\$: 707

Date: Sun, 28 Sep 2008 22:32:38 +0000

Record time: 2008-09-28T22:31

Author: bph

Type: Course Update

Subject: course update

Attachment:

Encoding: ELCode

---

2231 course update

N 59 41.034

W 140 01.183

Depth 136m

heading 40

speed 4.59 kts STW

tension 3860lbs

\$@MID@\$: 708

Date: Sun, 28 Sep 2008 22:39:14 +0000

Record time: 2008-09-28T22:38

Author: bph

Type: streamer

Subject: adjust streamer trim

Attachment:

Encoding: ELCode

---

2235 adjusted streamer trim to centered behind ship

\$@MID@\$: 709

Date: Sun, 28 Sep 2008 22:41:25 +0000

Record time: 2008-09-28T22:40

Author: bph

Type: Magnetometer

Subject: maggie deployed

Attachment:

Encoding: ELCode

---

2241 Maggie deployed

\$@MID@\$: 710

Date: Sun, 28 Sep 2008 22:51:55 +0000

Record time: 2008-09-28T22:51

Author: bph

Type: Manuvering

Subject: begin turn

Attachment:

Encoding: ELCode

---

2251 begin first turn in Yakutat Bay  
\$@MID@\$: 711  
Date: Sun, 28 Sep 2008 22:52:51 +0000  
Record time: 2008-09-28T22:52  
Author: bph  
Type: PAM  
Subject: pam deployed  
Attachment:  
Encoding: ELCode

---

2252 PAM deployed  
\$@MID@\$: 712  
Date: Sun, 28 Sep 2008 23:02:17 +0000  
Record time: 2008-09-28T23:00  
Author: bph  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

---

2300 course update  
N 59 42.546  
W 139 58.201  
Heading 67.4  
Speed 5.00 kts STW  
Depth 120m  
Tension 3740lbs  
\$@MID@\$: 713  
Date: Sun, 28 Sep 2008 23:07:34 +0000  
Record time: 2008-09-28T23:07  
Author: bph  
Type: Manuvering  
Subject: First turn complete  
Attachment:  
Encoding: ELCode

---

2307 first turn in Yakutat bay complete  
\$@MID@\$: 714  
Date: Sun, 28 Sep 2008 23:32:17 +0000  
Record time: 2008-09-28T23:30  
Author: bph  
Type: Course Update  
Subject: course update  
Attachment:  
Encoding: ELCode

---

2330 Course update  
N 59 42.796  
W 139 54.688  
Heading 85.5  
Speed 5.11 kts STW  
Depth 64.7 m  
Tension 4017 lbs  
\$@MID@\$: 715  
Date: Sun, 28 Sep 2008 23:52:12 +0000  
Record time: 2008-09-28T23:51  
Author: bph  
Type: Comment/Event  
Subject: passing of shoal  
Attachment:  
Encoding: ELCode

=====

2351 passing over shoals. Streamer tension 4045.6  
N 59 42.934  
W 139 50.305  
Depth 52.6m  
heading 81.5  
speed 5.14 kts STW  
\$@MID@\$: 716  
Date: Mon, 29 Sep 2008 00:03:22 +0000  
Record time: 2008-09-29T00:01  
Author: lw  
Type: MIDNIGHT  
Subject: midnight position and shift change  
Attachment:  
Encoding: ELCode

=====

N 59 42.99644  
W 139 48.85601  
depth 60.1 STW 4.97  
heading 82.09  
tension 3899

lw and sc on station  
\$@MID@\$: 717  
Date: Mon, 29 Sep 2008 00:31:16 +0000  
Record time: 2008-09-29T00:30  
Author: lw  
Type: Comment/Event  
Subject: request speed change  
Attachment:  
Encoding: ELCode

=====

request speed decrease due to high streamer tension.

\$@MID@\$: 718

Date: Mon, 29 Sep 2008 00:32:24 +0000

Record time: 2008-09-29T00:31

Author: lw

Type: Course Update

Subject: course update

Attachment:

Encoding: ELCode

=====

N 59 43.95414

W 139 44.55699

depth 72.89 STW 5.15

heading 46.44 tension 4083.9

\$@MID@\$: 719

Date: Mon, 29 Sep 2008 00:47:17 +0000

Record time: 2008-09-29T00:46

Author: lw

Type: Air Guns

Subject: mitigation gun is firing

Attachment:

Encoding: ELCode

=====

Mitigation gun is firing.

\$@MID@\$: 720

Date: Mon, 29 Sep 2008 00:55:27 +0000

Record time: 2008-09-29T00:54

Author: lw

Type: Air Guns

Subject: begin ramp up

Attachment:

Encoding: ELCode

=====

Beginning airgun ramp up.

\$@MID@\$: 721

Date: Mon, 29 Sep 2008 00:59:45 +0000

Record time: 2008-09-29T00:58

Author: lw

Type: Course Update

Subject: beginning turn

Attachment:

Encoding: ELCode

=====

Beginning turn.

N 59 45.19384

W 139 41.0659  
depth 176.05 STW 4.83  
tension: 3860  
\$@MID@\$: 722  
Date: Mon, 29 Sep 2008 01:25:44 +0000  
Record time: 2008-09-29T01:24  
Author: lw  
Type: Air Guns  
Subject: ramp up complete  
Attachment:  
Encoding: ELCode

=====

ramp up complete  
\$@MID@\$: 723  
Date: Mon, 29 Sep 2008 01:43:17 +0000  
Record time: 2008-09-29T01:41  
Author: SC  
Type: Start of Line  
Subject: Start of Line STEEP 02  
Attachment:  
Encoding: ELCode

=====

Start of line STEEP 02; FGSP# 953 on REEL 0024  
N 59 47 57611  
W 139 43 36902  
Heading 274.06  
Depth 114  
Tension 3277  
\$@MID@\$: 724  
Date: Mon, 29 Sep 2008 01:50:02 +0000  
Record time: 2008-09-29T01:47  
Author: SC  
Type: Course Update  
Subject: Course Update online STEEP 02  
Attachment:  
Encoding: ELCode

=====

Online STEEP 02  
N 59 47 19092  
W 139 45 14607  
Depth 210  
\$@MID@\$: 725  
Date: Mon, 29 Sep 2008 02:01:07 +0000  
Record time: 2008-09-29T02:00  
Author: SC  
Type: Bird

Subject: Reset bird depths

Attachment:

Encoding: ELCode

---

Reset bird depths 23-25 to 9m and 26-27 to 8 m to adjust for turn of streamer onto STEEP 02 line

\$@MID@\$: 726

Date: Mon, 29 Sep 2008 02:51:25 +0000

Record time: 2008-09-29T02:37

Author: lw

Type: Speed request

Subject: request speed decrease

Attachment:

Encoding: ELCode

---

Request speed decrease to SOG 4.5

\$@MID@\$: 727

Date: Mon, 29 Sep 2008 02:52:09 +0000

Record time: 2008-09-29T02:39

Author: lw

Type: Pilot

Subject: pilot off board

Attachment:

Encoding: ELCode

---

Pilot off, boat clear.

\$@MID@\$: 728

Date: Mon, 29 Sep 2008 02:53:14 +0000

Record time: 2008-09-29T02:47

Author: lw

Type: streamer

Subject: Out of turn

Attachment:

Encoding: ELCode

---

Streamer out of turn. SP 1177 tension 3068.6

N 59 43.0586

W 139 51.309

STW 4.6

heading 217

\$@MID@\$: 729

Date: Mon, 29 Sep 2008 02:55:39 +0000

Record time: 2008-09-29T02:55

Author: lw

Type: Speed request

Subject: request speed increase



Attachment:  
Encoding: ELCode

=====

Speed increase requested. tension: 3292.5  
\$@MID@\$: 730  
Date: Mon, 29 Sep 2008 03:32:31 +0000  
Record time: 2008-09-29T03:31  
Author: SC  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

=====

N 59 40 31365  
W 139 55 42145  
Speed 4.95  
Heading 219.16  
Depth 145  
Tension 3651  
\$@MID@\$: 731  
Date: Mon, 29 Sep 2008 04:40:01 +0000  
Record time: 2008-09-29T04:30  
Author: ADB  
Type: course change  
Subject: Ship Turning  
Attachment:  
Encoding: ELCode

=====

Ship making a slight 5 deg turn to Starboard. Turn complete at 0439.  
\$@MID@\$: 732  
Date: Mon, 29 Sep 2008 05:34:11 +0000  
Record time: 2008-09-29T05:33  
Author: ADB  
Type: Air Guns  
Subject: Shut down Gun 7 String 2  
Attachment:  
Encoding: ELCode

=====

Shut down Gun 7 String 2 due to consecutive no fires.  
Volume=6440 cubic inches  
SP 1647  
\$@MID@\$: 733  
Date: Mon, 29 Sep 2008 05:42:33 +0000  
Record time: 2008-09-29T05:40  
Author: ADB  
Type: Comment/Event

Subject: Bird Depth Change

Attachment:

Encoding: ELCode

---

Changed depth for birds 15-27 to 6m due to approaching sill.

N 59 32.653

W 140 07.855

Heading 203

\$@MID@\$: 734

Date: Mon, 29 Sep 2008 05:50:22 +0000

Record time: 2008-09-29T05:49

Author: ADB

Type: Comment/Event

Subject: Passing Sill

Attachment:

Encoding: ELCode

---

Passing Sill.

N 59 32.222

W 140 08.598

\$@MID@\$: 735

Date: Mon, 29 Sep 2008 06:27:22 +0000

Record time: 2008-09-29T06:26

Author: ADB

Type: Bird

Subject: Change Bird Depth

Attachment:

Encoding: ELCode

---

Changed the depth of birds 15-27 back to 9m.

N 59 30.199

W 140 12.062

Heading: 208

\$@MID@\$: 736

Date: Mon, 29 Sep 2008 06:35:31 +0000

Record time: 2008-09-29T06:34

Author: BM

Type: streamer

Subject: Streamer depth at 9 meters

Attachment:

Encoding: ELCode

---

Streamer depth at 9 meters

\$@MID@\$: 737

Date: Mon, 29 Sep 2008 08:02:29 +0000

Record time: 2008-09-29T08:00

Author: cre  
Type: Course Update  
Subject: Course Update  
Attachment:  
Encoding: ELCode

---

0800  
N 59 24.805  
W 140 21.302  
Speed 4.84 heading 219  
Tension 3964  
\$@MID@\$: 738  
Date: Mon, 29 Sep 2008 08:25:29 +0000  
Record time: 2008-09-29T08:21  
Author: RE  
Type: Bird  
Subject: Bird 3 unresponsive  
Attachment:  
Encoding: ELCode

---

Bird 3 refuses to cycle. Fin angle doesn't seem to be affecting to the cable depth.  
\$@MID@\$: 739  
Date: Mon, 29 Sep 2008 08:33:37 +0000  
Record time: 2008-09-29T08:32  
Author: bph  
Type: Course Update  
Subject: Course update  
Attachment:  
Encoding: ELCode

---

0832 course update  
N 59 22.971  
W 140 24.421  
Speed 4.84 kts STW  
Heading 224  
Depth 3856m  
Tension 3920 lbs  
\$@MID@\$: 740  
Date: Mon, 29 Sep 2008 08:59:28 +0000  
Record time: 2008-09-29T08:53  
Author: RE  
Type: Bird  
Subject: Bird 3 returns to normal  
Attachment:  
Encoding: ELCode

=====  
Bird 3 returns to normal state. No longer a red football.

\$@MID@\$: 741

Date: Mon, 29 Sep 2008 12:13:40 +0000

Record time: 2008-09-29T12:12

Author: lw

Type: Watch Relief

Subject: watch relief

Attachment:

Encoding: ELCode  
=====

Lindsay Worthington and Seth Campbell on.

N 59 10.05012

W 140 46.28897

STW 4.68 depth 161.04

tension 3942

\$@MID@\$: 742

Date: Mon, 29 Sep 2008 13:56:33 +0000

Record time: 2008-09-29T13:55

Author: SC

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode  
=====

N 59 03 79323

W 140 56 71284

Speed 4.63

Heading 222.44

Depth 188

Tension 4031

\$@MID@\$: 743

Date: Mon, 29 Sep 2008 14:56:24 +0000

Record time: 2008-09-29T14:55

Author: SC

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode  
=====

N 59 00 24190

W 141 02 60463

Speed 4.89

Heading 216.83

Depth 196

Tension 3763

\$@MID@\$: 744

Date: Mon, 29 Sep 2008 15:30:38 +0000

Record time: 2008-09-29T15:30

Author: SC

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

---

N 58 58 17083

W 141 06 04011

Speed 4.66

Heading 213.74

Depth 580

Tension 3718

\$@MID@\$: 745

Date: Mon, 29 Sep 2008 15:57:51 +0000

Record time: 2008-09-29T15:55

Author: ADB

Type: Bird

Subject: Bird Adjustment

Attachment:

Encoding: ELCode

---

Fixed Bird 15 wing angle at diving angle and set birds 13, 14 and 16 to 9.5m depth. Bird 15 may have a malfunctioning depth transducer.

\$@MID@\$: 746

Date: Mon, 29 Sep 2008 16:12:19 +0000

Record time: 2008-09-29T16:11

Author: ADB

Type: Bird

Subject: Bird Adjustment

Attachment:

Encoding: ELCode

---

Set depth of birds 13 and 14 to 9 m depth.

\$@MID@\$: 747

Date: Mon, 29 Sep 2008 19:22:10 +0000

Record time: 2008-09-29T19:21

Author: ADB

Type: Speed request

Subject: Speed Change

Attachment:

Encoding: ELCode

---

Speed change due to telemetry errors. Tension should not exceed 3700lbs.

\$@MID@\$: 748

Date: Mon, 29 Sep 2008 20:19:20 +0000

Record time: 2008-09-29T20:18

Author: bph

Type: Compressor

Subject: compressor failure

Attachment:

Encoding: ELCode

---

2017 lost compressor, shut off guns, leave on S1G05 mitigation gun

N 58 42.144

W 141 32.179

Heading 210

Speed 4.07 kts STW

Depth 3323m

tension 3151 lbs

\$@MID@\$: 749

Date: Mon, 29 Sep 2008 20:27:59 +0000

Record time: 2008-09-29T20:21

Author: bph

Type: Air Guns

Subject: air guns restarted

Attachment:

Encoding: ELCode

---

2021 guns restarted

N 58 42.054

W 141 32.329

\$@MID@\$: 750

Date: Mon, 29 Sep 2008 22:28:02 +0000

Record time: 2008-09-29T22:26

Author: cre

Type: MMO sighting

Subject: MMO sighting/Power down

Attachment:

Encoding: ELCode

---

2219

N 58 35.437

W 141 42.288

LGSP: 4456

\$@MID@\$: 751

Date: Mon, 29 Sep 2008 22:30:48 +0000

Record time: 2008-09-29T22:28

Author: cre

Type: Ramp up

Subject: Ramp up/Guns at full power

Attachment:

Encoding: ELCode

---

2224 hrs

N 58 35.446

W 141 42.964

FGSP: 4465

\$@MID@\$: 752

Date: Mon, 29 Sep 2008 23:51:25 +0000

Record time: 2008-09-29T23:50

Author: SC

Type: Watch Relief

Subject: Shift Change

Attachment:

Encoding: ELCode

---

SC and LW on Duty

\$@MID@\$: 753

Date: Tue, 30 Sep 2008 00:03:12 +0000

Record time: 2008-09-30T00:00

Author: SC

Type: MIDNIGHT

Subject: Midnight Position

Attachment:

Encoding: ELCode

---

N 58 30 15600

W 141 51 39422

Heading 214.68

Speed 4.45

Depth 3521

Tension 3397

\$@MID@\$: 754

Date: Tue, 30 Sep 2008 01:01:33 +0000

Record time: 2008-09-30T01:00

Author: SC

Type: Course Update

Subject: Course Update

Attachment:

Encoding: ELCode

---

N 58 27 03277

W 141 56 36786

Heading 213. 92

Speed 4.63

Depth 3493  
Tension 3785

\$@MID@\$: 755  
Date: Tue, 30 Sep 2008 02:50:55 +0000  
Record time: 2008-09-30T02:40  
Author: lw  
Type: Course Update  
Subject: beginning turn toward STEEP11  
Attachment:  
Encoding: ELCode

---

Beginning turn toward STEEP11  
N 58 21.36167  
W 142 05.37793  
tension 3592  
SOG 4.6  
\$@MID@\$: 756  
Date: Tue, 30 Sep 2008 02:52:17 +0000  
Record time: 2008-09-30T02:41  
Author: lw  
Type: EOL  
Subject: EOL STEEP02  
Attachment:  
Encoding: ELCode

---

End of Line STEEP02  
N 58 21.36167  
W 142 05.37793  
LSP# 5153  
\$@MID@\$: 757  
Date: Tue, 30 Sep 2008 02:54:03 +0000  
Record time: 2008-09-30T02:47  
Author: lw  
Type: SOL  
Subject: SOL STEEP11  
Attachment:  
Encoding: ELCode

---

Start of Line STEEP11  
FSP # 361  
gun volume 6480 cubic in  
N 58 21' 08.435"  
W 142 06' 09.717"  
\$@MID@\$: 758  
Date: Tue, 30 Sep 2008 03:15:29 +0000



Record time: 2008-09-30T03:13

Author: lw

Type: Course Update

Subject: finished turn

Attachment:

Encoding: ELCode

=====

turn complete. streamer still turning.

N 58 21.89573

W 142 09.52631

tension 3426

SP 431

\$@MID@\$: 759

Date: Tue, 30 Sep 2008 04:22:16 +0000

Record time: 2008-09-30T04:19

Author: ADB

Type: Comment/Event

Subject: FGSP STEEP11

Attachment:

Encoding: ELCode

=====

FGSP STEEP11. Streamer straight on run-in track to line 11.

N 58 25.617

W 142 15.959

Heading: 339 Depth: 3338m

SOG: 4.4kts

SP: 616

\$@MID@\$: 760

Date: Tue, 30 Sep 2008 04:55:31 +0000

Record time: 2008-09-30T04:50

Author: ADB

Type: Bird

Subject: Birds 02 - 05 at 8m Depth

Attachment:

Encoding: ELCode

=====

Birds 02 - 05 at 8m Depth due to rough seas.

Starting at SP 700.

\$@MID@\$: 761

Date: Tue, 30 Sep 2008 04:58:14 +0000

Record time: 2008-09-30T04:57

Author: ADB

Type: Bird

Subject: Birds 02 - 05 Back to Normal Depth

Attachment:

Encoding: ELCode

=====  
Birds 02 - 05 Back to Normal Depth.

SP 722

\$@MID@\$: 762

Date: Tue, 30 Sep 2008 05:38:39 +0000

Record time: 2008-09-30T05:36

Author: ADB

Type: Bird

Subject: Bird Depth Change

Attachment:

Encoding: ELCode  
=====

Depths of birds 02-05 changed to 10m due to rough weather. Birds 04 and 05 were at ~7m depth when change was made.

\$@MID@\$: 763

Date: Tue, 30 Sep 2008 06:28:01 +0000

Record time: 2008-09-30T06:27

Author: ADB

Type: Bird

Subject: Bird Depth Change

Attachment:

Encoding: ELCode  
=====

Depth of all birds changed to 12 m depth due to bad weather causing a wavy streamer profile.

\$@MID@\$: 764

Date: Tue, 30 Sep 2008 06:33:37 +0000

Record time: 2008-09-30T06:33

Author: ADB

Type: course change

Subject: Ship Turning/STEEP11 Aimpoint

Attachment:

Encoding: ELCode  
=====

Ship turning 5 deg to port as we hit the STEEP11 aimpoint.

N 58 33.237

W 142 29.117

Heading 328 Depth 3173m

SOG 4.7 kts

\$@MID@\$: 765

Date: Tue, 30 Sep 2008 09:46:53 +0000

Record time: 2008-09-30T08:15

Author: bph

Type: Bird

Subject: bird depth set

Attachment:

Encoding: ELCode

=====

0815 bird depth set to 10.5m. all birds respond

\$@MID@\$: 766

Date: Tue, 30 Sep 2008 09:47:35 +0000

Record time: 2008-09-30T09:46

Author: bph

Type: Bird

Subject: bird depth set

Attachment:

Encoding: ELCode

=====

0945 bird depths set to 10 m, all birds respond

\$@MID@\$: 767

Date: Tue, 30 Sep 2008 11:55:19 +0000

Record time: 2008-09-30T11:54

Author: SC

Type: Watch Relief

Subject: watch Relief

Attachment:

Encoding: ELCode

=====

Seth Campbell and Lindsay Worthington on duty

N 58 50 68223

W 143 05 02620

Speed 4.23

Heading 314.89

Depth 3467

Tension 3524

\$@MID@\$: 768

Date: Tue, 30 Sep 2008 13:00:41 +0000

Record time: 2008-09-30T12:58

Author: SC

Type: Air Guns

Subject: Air Gun misfires

Attachment:

Encoding: ELCode

=====

Gun S1G20 misfired 5 times in a row SP 2080-2084. Turned off and swapped to S1G18. S1G18 no fires occasionally. Believed small leak in gun causing no fires

\$@MID@\$: 769

Date: Tue, 30 Sep 2008 15:39:19 +0000

Record time: 2008-09-30T15:38

Author: lw

Type: Air Guns

Subject: Gun S1G18 powered down

Attachment:

Encoding: ELCode

---

Gun S1G18 powered down due to 5 no fires consecutively. Volume: 5720 cubic in.

\$@MID@\$: 770

Date: Tue, 30 Sep 2008 16:10:21 +0000

Record time: 2008-09-30T16:08

Author: ADB

Type: Speed request

Subject: Speed Increase

Attachment:

Encoding: ELCode

---

Speed increase; driving by line tension. In hopes of bringing the streamer down from the surface.

\$@MID@\$: 771

Date: Tue, 30 Sep 2008 16:12:20 +0000

Record time: 2008-09-30T16:11

Author: ADB

Type: Bird

Subject: Bird Depth Change

Attachment:

Encoding: ELCode

---

Bird depth set to 13m; however, birds are at the surface due to rough seas.

\$@MID@\$: 772

Date: Tue, 30 Sep 2008 16:25:57 +0000

Record time: 2008-09-30T16:24

Author: ADB

Type: Speed request

Subject: Speed Increase

Attachment:

Encoding: ELCode

---

Speed will be determined by tension. Max tension we are aiming for is 4500lbs

\$@MID@\$: 773

Date: Tue, 30 Sep 2008 17:23:51 +0000

Record time: 2008-09-30T17:22

Author: ADB

Type: streamer

Subject: Streamer at 13 m Depth

Attachment:

Encoding: ELCode

=====

Streamer no longer at the surface; now at 13 m depth.

\$@MID@\$: 774

Date: Tue, 30 Sep 2008 19:50:15 +0000

Record time: 2008-09-30T19:49

Author: ADB

Type: Air Guns

Subject: Turned on Spare

Attachment:

Encoding: ELCode

=====

Turned on gun 5 string 4.

New volume: 5900 cubic inches

\$@MID@\$: 775

Date: Tue, 30 Sep 2008 20:06:08 +0000

Record time: 2008-09-30T20:05

Author: bph

Type: Bird

Subject: Bird depth

Attachment:

Encoding: ELCode

=====

2005 bird depth set to 11 m

\$@MID@\$: 776

Date: Tue, 30 Sep 2008 20:26:10 +0000

Record time: 2008-09-30T20:25

Author: bph

Type: Air Guns

Subject: S1G18 off

Attachment:

Encoding: ELCode

=====

2024 gun S1g18 off due to no fires, volume at 5840

\$@MID@\$: 777

Date: Tue, 30 Sep 2008 23:37:09 +0000

Record time: 2008-09-30T22:22

Author: bph

Type: MMO sighting

Subject: MMO sighting power down

Attachment:

Encoding: ELCode

=====

2222 power down, mmo sighting , lgsp 3641  
missed 3542-3644

N 59 21 47.784

W 144 09 50.98

\$@MID@\$: 778  
Date: Tue, 30 Sep 2008 23:38:01 +0000  
Record time: 2008-09-30T22:23  
Author: bph  
Type: MMO sighting  
Subject: mitigation gun  
Attachment:  
Encoding: ELCode

---

2223 MMO mitigation gun on  
\$@MID@\$: 779  
Date: Tue, 30 Sep 2008 23:38:52 +0000  
Record time: 2008-09-30T22:24  
Author: bph  
Type: MMO sighting  
Subject: gun shut down  
Attachment:  
Encoding: ELCode

---

2224 guns shut down, lgsp 3652  
\$@MID@\$: 780  
Date: Tue, 30 Sep 2008 23:41:36 +0000  
Record time: 2008-09-30T22:27  
Author: bph  
Type: Air Guns  
Subject: full volume  
Attachment:  
Encoding: ELCode

---

2227 gun return to full volume  
sp 3669

n 59 22 18.497  
W 144 10 56.063  
\$@MID@\$: 781  
Date: Tue, 30 Sep 2008 23:42:21 +0000  
Record time: 2008-09-30T22:38  
Author: bph  
Type: Air Guns  
Subject: SIG18 off  
Attachment:  
Encoding: ELCode

---

gun 18 turned off due to miss fires volume 6200  
\$@MID@\$: 782  
Date: Wed, 01 Oct 2008 00:02:50 +0000

Record time: 2008-10-01T00:00  
Author: lw  
Type: MIDNIGHT  
Subject: midnight position  
Attachment:  
Encoding: ELCode

---

N 59 27.3991  
W 144 21.64507  
Depth 1917.14 STW 4.54  
heading 316  
tension 3650  
\$@MID@\$: 783  
Date: Wed, 01 Oct 2008 01:46:29 +0000  
Record time: 2008-10-01T01:44  
Author: SC  
Type: Pam and Maggie  
Subject: Maggie on board  
Attachment:  
Encoding: ELCode

---

Maggie on board  
N 59 33 43211  
W 144 34 39738  
Depth 150  
Tension 3994  
Speed 4.65  
Heading 327.52  
\$@MID@\$: 784  
Date: Wed, 01 Oct 2008 01:56:32 +0000  
Record time: 2008-10-01T01:55  
Author: SC  
Type: End of Line  
Subject: End of Line STEEP 11  
Attachment:  
Encoding: ELCode

---

EOL SP# 4305 File # 3943  
N 59 34 01651  
W 144 35 68088  
Depth 147  
Heading 330.48  
Speed 4.91  
Tension 3847

Air Guns Powered Down

\$@MID@\$: 785

Date: Wed, 01 Oct 2008 01:56:56 +0000

Record time: 2008-10-01T01:56

Author: SC

Type: PAM

Subject: Pulling PAM on deck

Attachment:

Encoding: ELCode

---

Pulling Pam on Deck; Pam on Deck @ 0158 Hrs UTC

\$@MID@\$: 786

Date: Wed, 01 Oct 2008 02:12:08 +0000

Record time: 2008-10-01T01:58

Author: SC

Type: Air Guns

Subject: Air Guns Powered Down; Beginning transport on board

Attachment:

Encoding: ELCode

---

Air guns powered down. Beginning transport on board

\$@MID@\$: 787

Date: Wed, 01 Oct 2008 02:15:45 +0000

Record time: 2008-10-01T02:15

Author: SC

Type: Air Guns

Subject: String 3 Air Guns on Board

Attachment:

Encoding: ELCode

---

String 3 air guns on Board; beginning haul of string 1

\$@MID@\$: 788

Date: Wed, 01 Oct 2008 02:25:22 +0000

Record time: 2008-10-01T02:24

Author: SC

Type: Air Guns

Subject: String 4 Air guns on Board

Attachment:

Encoding: ELCode

---

String 4 Air guns on Board

\$@MID@\$: 789

Date: Wed, 01 Oct 2008 02:32:26 +0000

Record time: 2008-10-01T02:31

Author: SC

Type: re-position streamers

Subject: Streamer depth



Attachment:  
Encoding: ELCode

=====  
Streamer depth for birds set to 15 m  
\$@MID@\$: 790  
Date: Wed, 01 Oct 2008 02:58:52 +0000  
Record time: 2008-10-01T02:58  
Author: SC  
Type: Air Guns  
Subject: String 2 on board  
Attachment:  
Encoding: ELCode

=====  
String 2 air guns on board  
\$@MID@\$: 791  
Date: Wed, 01 Oct 2008 03:08:36 +0000  
Record time: 2008-10-01T03:08  
Author: SC  
Type: Air Guns  
Subject: String 1 air guns on board  
Attachment:  
Encoding: ELCode

=====  
String 1 air guns on board  
\$@MID@\$: 792  
Date: Wed, 01 Oct 2008 03:13:01 +0000  
Record time: 2008-10-01T03:12  
Author: SC  
Type: streamer  
Subject: Prep for Retrival  
Attachment:  
Encoding: ELCode

=====  
Surface and cable prep for retrieval  
\$@MID@\$: 793  
Date: Wed, 01 Oct 2008 03:18:52 +0000  
Record time: 2008-10-01T03:18  
Author: SC  
Type: streamer  
Subject: Disconnecting Soft Tow  
Attachment:  
Encoding: ELCode

=====  
Disconnecting the soft tow from kellum grip  
\$@MID@\$: 794  
Date: Wed, 01 Oct 2008 03:22:35 +0000

Record time: 2008-10-01T03:21  
Author: RJS  
Type: Comment/Event  
Subject: Soft Tow Disconnected  
Attachment:  
Encoding: ELCode

=====

Soft Tow disconnected, retrieving Lead-in to remove PV-3000 Dilt-Float  
\$@MID@\$: 795

Date: Wed, 01 Oct 2008 03:45:32 +0000  
Record time: 2008-10-01T03:44  
Author: RJS  
Type: Comment/Event  
Subject: Disconnecting PV-3000 Dilt Float  
Attachment:  
Encoding: ELCode

=====

Disconnecting PV-3000 Dilt Float  
\$@MID@\$: 796  
Date: Wed, 01 Oct 2008 04:03:36 +0000  
Record time: 2008-10-01T04:02  
Author: rsr  
Type: streamer  
Subject: PV-3000  
Attachment:  
Encoding: ELCode

=====

Retrieval rope on PV-3000 broken.  
\$@MID@\$: 797  
Date: Wed, 01 Oct 2008 04:11:53 +0000  
Record time: 2008-10-01T04:11  
Author: RJS  
Type: Comment/Event  
Subject: PV-3000 Onboard  
Attachment:  
Encoding: ELCode

=====

PV-3000 Onboard - Picking up to Remove Head Stretch  
\$@MID@\$: 798  
Date: Wed, 01 Oct 2008 04:14:23 +0000  
Record time: 2008-10-01T04:14  
Author: rsr  
Type: streamer  
Subject: powered down streamer  
Attachment:  
Encoding: ELCode

=====

Powered down streamer.

\$@MID@\$: 799

Date: Wed, 01 Oct 2008 04:31:33 +0000

Record time: 2008-10-01T04:31

Author: rsr

Type: streamer

Subject: streamer

Attachment:

Encoding: ELCode

=====

Streamer failed to power up.

\$@MID@\$: 821

Date: Wed, 01 Oct 2008 06:21:27 +0000

Record time: 2008-10-01T06:21

Author: rsr

Type: Reel switch

Subject: Reel switch

Attachment:

Encoding: ELCode

=====

Streamer disconnected and switched to reel 2. Continued streamer recovery on reel 2.

\$@MID@\$: 822

Date: Wed, 01 Oct 2008 07:06:05 +0000

Record time: 2008-10-01T07:05

Author: rsr

Type: Tail buoy

Subject: Tail buoy

Attachment:

Encoding: ELCode

=====

Tail buoy on board.

\$@MID@\$: 823

Date: Wed, 01 Oct 2008 07:11:14 +0000

Record time: 2008-10-01T07:10

Author: rsr

Type: Comment/Event

Subject: Transit

Attachment:

Encoding: ELCode

=====

All gear on board and secure. Enroute to OBS 214.

\$@MID@\$: 824

Date: Wed, 01 Oct 2008 17:48:56 +0000

Record time: 2008-10-01T17:46

Author: ADB  
Type: OBS Recovery  
Subject: On Site to Recovery OBS 214  
Attachment:  
Encoding: ELCode

---

On site to recover OBS 214. Transducer in water and signal sent.

N 58 26.616

W 141 57.028

Depth 3496m

\$@MID@\$: 825

Date: Wed, 01 Oct 2008 18:52:14 +0000

Record time: 2008-10-01T18:51

Author: ADB

Type: OBS Recovery

Subject: OBS 214 Abandoned

Attachment:

Encoding: ELCode

---

OBS 214 Abandoned.

Heading to OBS 108 site.

\$@MID@\$: 826

Date: Thu, 02 Oct 2008 00:06:44 +0000

Record time: 2008-10-02T00:04

Author: SC

Type: MIDNIGHT

Subject: Midnight Position and Watch Change

Attachment:

Encoding: ELCode

---

Seth Campbell and Lindsay Worthing on duty

Midnight position

N 59 19 17234

W 141 35 29138

Speed 10.88

Depth 199

Heading 12.08

\$@MID@\$: 827

Date: Thu, 02 Oct 2008 01:20:20 +0000

Record time: 2008-10-02T01:19

Author: lw

Type: OBS Recovery

Subject: OBS 108 on surface

Attachment:

Encoding: ELCode

=====

OBS 108 found using radio beacon. OBS 108 spotted on surface.

\$@MID@\$: 828

Date: Thu, 02 Oct 2008 01:30:42 +0000

Record time: 2008-10-02T01:29

Author: lw

Type: OBS Recovery

Subject: OBS 108 on board

Attachment:

Encoding: ELCode

=====

Recovered OBS 108

N 59 31.32114

W 141 30.95692

depth 161.52

\$@MID@\$: 829

Date: Thu, 02 Oct 2008 11:52:51 +0000

Record time: 2008-10-02T11:51

Author: SC

Type: Watch Relief

Subject: Watch Relief

Attachment:

Encoding: ELCode

=====

Seth Campbell and Lindsay Worthington on Duty. On site for OBS 121 retrieval

N 58 31 07556

W 138 56 89358

Speed 1.70

Depth 104

Heading 209.77

On site for OBS 121 @ 1140 hrs with previous watch stand crew

Signal sent @ 1149 hrs by previous watch stand crew

\$@MID@\$: 830

Date: Thu, 02 Oct 2008 12:06:07 +0000

Record time: 2008-10-02T12:04

Author: SC

Type: OBS Recovery

Subject: Transducer in water sending signal

Attachment:

Encoding: ELCode

=====

Transducer in water sending signal. Will send signal for 15 minutes and then wait for auto timer release of OBS at 1400 hrs UTC if OBS is not spotted

\$@MID@\$: 831

Date: Thu, 02 Oct 2008 12:17:27 +0000

Record time: 2008-10-02T12:16

Author: SC

Type: OBS Recovery

Subject: Transducer on board

Attachment:

Encoding: ELCode

=====

Transducer on board. No signal response. Waiting until auto release of  
OBS at 6 am

\$@MID@\$: 832

Date: Thu, 02 Oct 2008 14:03:49 +0000

Record time: 2008-10-02T14:03

Author: SC

Type: OBS Recovery

Subject: Transducer in water; automatic release time for OBS

Attachment:

Encoding: ELCode

=====

Transducer in water. Automatic release time for OBS

\$@MID@\$: 834

Date: Thu, 02 Oct 2008 14:26:20 +0000

Record time: 2008-10-02T14:26

Author: SC

Type: OBS Recovery

Subject: Transducer on Board

Attachment:

Encoding: ELCode

=====

Transducer on board

\$@MID@\$: 835

Date: Thu, 02 Oct 2008 14:56:54 +0000

Record time: 2008-10-02T14:55

Author: SC

Type: OBS Recovery

Subject: Abandoning OBS 121; No surface arrival

Attachment:

Encoding: ELCode

=====

Abandoning OBS 121; no surface arrival. En route to OBS 122 for retrieval

\$@MID@\$: 836

Date: Thu, 02 Oct 2008 15:52:34 +0000

Record time: 2008-10-02T15:43

Author: SC

Type: OBS Recovery

Subject: OBS 122 radio signla recieved

Attachment:

Encoding: ELCode

---

OBS 122 on surface radio signal recieved

\$@MID@\$: 837

Date: Thu, 02 Oct 2008 15:54:14 +0000

Record time: 2008-10-02T15:53

Author: SC

Type: OBS Recovery

Subject: OBS 122 on surface and in sight

Attachment:

Encoding: ELCode

---

OBS 122 on surface and in sight

N 58 26 30915

W 138 45 25072

Depth 97

Heading 130.95

\$@MID@\$: 838

Date: Thu, 02 Oct 2008 16:00:22 +0000

Record time: 2008-10-02T16:00

Author: SC

Type: OBS Recovery

Subject: OBS 122 On board

Attachment:

Encoding: ELCode

---

OBS 122 on board... Headed HOME!!!

\$@MID@\$: 839

Date: Thu, 02 Oct 2008 19:54:35 +0000

Record time: 2008-09-16T20:15

Author: RE

Type: Magnitometer

Subject: Magnitometer deployed

Attachment:

Encoding: ELCode

---

Magnitometer deployed and recording.

\$@MID@\$: 840

Date: Thu, 02 Oct 2008 19:55:55 +0000

Record time: 2008-09-18T15:37

Author: RE

Type: Magnitometer

Subject: Magnitometer on deck

Attachment:

Encoding: ELCode

=====

Magnitometer on deck and secure. Recording stopped.

\$@MID@\$: 841

Date: Thu, 02 Oct 2008 19:56:52 +0000

Record time: 2008-10-01T02:30

Author: RE

Type: Magnitometer

Subject: Mangnitometer on deck

Attachment:

Encoding: ELCode

=====

Mangnitometer on deck, begin all equipment retrieval.

\$@MID@\$: 842

Date: Fri, 03 Oct 2008 18:55:51 +0000

Record time: 2008-10-03T18:55

Author: bm

Type: MIDNIGHT

Subject: Midnight position

Attachment:

Encoding: ELCode

=====