

## DAILY REPORTS: JD 048 through JD 076

To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
From: R/V OceanExplorer  
Subject: Cape Ann Survey Daily Progress Report  
For period Time: 0000 - 2400 (UTC) Date: 18 February 2004 JD 049

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### A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Marina	Cape Ann Marina	Cape Ann Site	Cape Ann Marina

### B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	N 10-15	N 15-20	NNE 20-25	N/A
Wave Height (ft)	At Dock	1-3	4-6	At Dock

### C. Daily Events

Second Captain arrived 07:30 am

Bill Danforth did not arrive, due to weather and traffic.

Conducted Patch Test, headed to survey site. Attempted to survey, weather too rough.

Headed to dock. Caught pot on approach to dock, wrapped line around prop. Captain has called for a driver to inspect.

### D. Operational (hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	03:00	000:00
Transit	03:45	000:00
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	000:00
Maintenance	00:00	000:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

### E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
14	0.64	3.5	-2.86

### F. Work Plan for the Next 24 Hours

Shutdown vessel.

Head back to office.

### G. Personnel on Board:

SAIC SURVEY CREW: Paul Donaldson and Pam Clark.

Ship's Crew: Fredrick Folsom, Steve Lunt

I. Spares Consumed:

N/A

J. Comments

Will monitor weather carefully for the next possible weather window.  
Acushnet beacon will be down 1600Z-1700Z 19 Feb 04.

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Signed: Pam Clark

To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
 From: R/V OceanExplorer  
 Subject: Cape Ann Survey Daily Progress Report  
 For period Time: 0000 - 2400 (UTC) Date: 23 February 2004 JD 054

A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Marina	Cape Ann Marina	Cape Ann Marina	Cape Ann Site

B. Weather

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	N/A	N 15-20	N 15-20	N 15-20
Wave Height (ft)	N/A	2-3	2-3	2-3

C. Daily Events

Survey Crew and Ships' Crew arrived in AM, draft recorded and Leadline Comparison conducted prior to departure, left dock for survey site 16:22 UTC; began Cape Ann Survey, started mid-sheet, running mainscheme lines, 2 crosslines.

D. Operational (hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	06:18	000:00
Transit	01:22	000:00
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	000:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
94.5	4.96	7.50	-2.54

F. Work Plan for the Next 24 Hours

Continue survey and monitor weather conditions.

COASTAL WATERS FROM MERRIMACK RIVER MA TO WATCH HILL RI OUT TO 25 NM  
 ANZ250-241115-  
 COASTAL WATERS FROM MERRIMACK RIVER MA OUT 25 NM TO PLYMOUTH MA OUT  
 40 NM-  
 936 PM EST MON FEB 23 2004  
 OVERNIGHT  
 NW WIND AROUND 15 KT...DIMINISHING TO AROUND 10 KT LATE.  
 SEAS 2 TO 4 FT.  
 TUE  
 NW WIND 5 TO 10 KT. SEAS 2 TO 3 FT.  
 TUE NIGHT  
 NW WIND AROUND 10 KT IN THE EVENING...BECOMING N 10 TO  
 15 KT AFTER MIDNIGHT. SEAS 2 TO 4 FT.  
 WED

N WIND AROUND 15 KT. SEAS 2 TO 4 FT.  
WED NIGHT  
N WIND 15 TO 20 KT. SEAS 2 TO 4 FT.  
THU  
NW WIND 15 TO 20 KT. SEAS 2 TO 4 FT.  
THU NIGHT  
N WIND AROUND 15 KT. SEAS 2 TO 4 FT.  
FRI  
N WIND 10 TO 15 KT IN THE MORNING...BECOMING NW 5 TO 10 KT.  
SEAS 2 TO 4 FT.  
SAT  
NW WIND AROUND 10 KT. SEAS 2 TO 3 FT.

G. Personnel on Board:

SAIC SURVEY CREW: Paul Donaldson and Pam Clark.

Ship's Crew: Steve Lunt, Dick Russell

I. Spares Consumed:

N/A

J. Comments

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Signed: Pam Clark

To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
 From: R/V OceanExplorer  
 Subject: Cape Ann Survey Daily Progress Report  
 For period Time: 0000 - 2400 (UTC) Date: 24 February 2004 JD 055

A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Site	Cape Ann Site	Cape Ann Site	Cape Ann Site

B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	NW 15-20	NW 15-20	NW 10-15	NW 10-12
Wave Height (ft)	2-3	2-3	2	2

C. Daily Events

Conducting 24 hr ops, collecting MB and XTF data, working 4-6 hour watches.  
 Conducted a Comparison Cast, started with sensor 4880 and are now using sensor 4881.

D. Operational (hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	24:00	030:18
Transit	00:00	001:22
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	000:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
373.5	22.04	17.50	4.54

F. Work Plan for the Next 24 Hours

Continue survey and monitor weather conditions.

COASTAL WATERS FROM MERRIMACK RIVER MA OUT 25 NM TO PLYMOUTH MA OUT 40 NM-

315 PM EST TUE FEB 24 2004

**SMALL CRAFT ADVISORY FOR SEAS MAY BE REQUIRED WED TONIGHT**

W WIND AROUND 10 KT BECOMING N 15 TO 20 KT. SEAS 2 TO 4 FT.

**WED**

N WIND 15 TO 20 KT. SEAS 3 TO 5 FT.

**WED NIGHT**

NW WIND 15 TO 20 KT. SEAS 3 TO 5 FT.

**THU**

NW WIND 15 TO 20 KT. SEAS 3 TO 5 FT.

**THU NIGHT**

NW WIND 15 TO 20 KT. SEAS 3 TO 5 FT.

**FRI**

N WIND AROUND 15 KT UNTIL LATE AFTERNOON...BECOMING NW AROUND 10 KT LATE. SEAS 2 TO 4 FT.

**FRI NIGHT**

NW WIND AROUND 10 KT. SEAS 2 TO 3 FT.

**SAT**

NW WIND AROUND 10 KT. SEAS 2 TO 3 FT.

**SUN**

W WIND 10 TO 15 KT...DIMINISHING AFTER MIDNIGHT. SEAS 2 TO 3 FT.

G. Personnel on Board:

SAIC SURVEY CREW: Paul Donaldson and Pam Clark.

SHIP'S CREW: Steve Lunt, Dick Russell

I. Spares Consumed:

N/A

J. Comments

Have noticed changes with the SVP casts in relation to the mouth of the Merrimack River and corresponding tidal fluxes. The majority of the casts have been very similar; through in the process of conducting the cast have noticed shifts within a short timeframe in localized areas, resulting in conducting more frequent SVP casts.

Weather depending, the Captain's estimate for fuel consumption running 1100 RPMs is that we have enough to run through Saturday; running 1200 RPMs would be sooner i.e. late Friday. In order to maintain 8 to 9 knots we have been running 1100 with the seas and 1200 into them. We will continue to monitor the refueling timeframe.

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Signed: Pam Clark

To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
 From: R/V OceanExplorer  
 Subject: Cape Ann Survey Daily Progress Report  
 For period Time: 0000 - 2400 (UTC) Date: 25 February 2004 JD 056

A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Site	Cape Ann Site	Cape Ann Site	Cape Ann Site

B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	NNW 15-20	N 15	N 15	NW 15-20
Wave Height (ft)	3	3	3	3

C. Daily Events

Conducting 24 hr ops, collecting MB and XTF data, working 4-6 hour watches. Moved inshore due to increasing winds: 2300 hours.

D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	24:00	054:18
Transit	00:00	001:22
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	000:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
317.5	36.56	27.5	9.06

F. Work Plan for the Next 24 Hours

Will continue to survey, weather dependent, through the night and break off early in the AM to head to Rose Oil for fuel, maintenance and crew change.

COASTAL WATERS FROM MERRIMACK RIVER MA OUT 25 NM TO PLYMOUTH MA OUT 40 NM-

351 PM EST WED FEB 25 2004

**SMALL CRAFT ADVISORY FOR SEAS TONIGHT**

WIND VARIABLE 5 TO 10 KT THIS EVENING...THEN BECOMING NW  
 WIND 15 TO 20 KT. SEAS 2 TO 4 FT BUILDING TO 3 TO 5 FT.

**THU**

NW WIND 15 TO 20 KT. SEAS 3 TO 5 FT.

**THU NIGHT**

N WIND AROUND 15 KT. SEAS 2 TO 4 FT.

**FRI**

N WIND 10 TO 15 KT. SEAS 2 TO 4 FT.

**FRI NIGHT**

NW WIND AROUND 15 KT. SEAS 2 TO 3 FT.

**SAT**

NW WIND 10 TO 15 KT IN THE MORNING...BECOMING W 5 TO 10 KT IN THE AFTERNOON. SEAS 2 TO 3 FT.

**SAT NIGHT**

W WIND 10 TO 15 KT IN THE EVENING...BECOMING NW 15 TO 20 KT AFTER MIDNIGHT. SEAS 2 TO 3 FT.

**SUN**

NW WIND 15 TO 20 KT...DECREASING TO 10 TO 15 KT. SEAS 2 TO 3 FT.

**MON**

NW WIND AROUND 10 KT...BECOMING SW 5 TO 10 KT. SEAS 2 TO 3 FT. CHANCE OF RAIN AND SNOW LATE.

G. Personnel on Board:

SAIC SURVEY CREW: Paul Donaldson and Pam Clark.

SHIP'S CREW: Steve Lunt, Dick Russell

I. Spares Consumed:

N/A

J. Comments

Seas were rough in the AM, 3' swell with a 3-4 sec period. Seas subsided in the afternoon to 1-2' swell winds picked up in the evening forcing us to move inshore.

Gary Davis and Meme Lobecker are scheduled to relieve P. Donaldson and P. Clark Thursday mid-morning.

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Signed: Pam Clark



To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
 From: R/V OceanExplorer  
 Subject: Cape Ann Survey Daily Progress Report  
 For period Time: 0000 - 2400 (UTC) Date: 26 February 2004 JD 057

#### A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Site	Gloucester	Gloucester	Cape Ann Site

#### B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	NW 15-20	NA	NA	N 15
Wave Height (ft)	3	NA	NA	3

#### C. Daily Events

Conducting 24 hr ops, collecting MB and XTF data. Surveyed trough 1000 hours. Arrived Gloucester 1200. Departed for survey area at 2000 and commenced survey operations at 2100. Lead line and comparison cast made.

#### D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	13:00	067:18
Transit	03:00	006:02
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	08:00	008:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

#### E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
193	45.38	33.0	12.38

#### F. Work Plan for the Next 24 Hours

Continue Cape Ann Survey weather permitting.

##### **TONIGHT**

VARIABLE MAINLY N WIND AROUND 10 KT THIS EVENING. BECOMING N AROUND 20 KT WITH A FEW GUSTS TO 25 KT DURING THE NIGHT. SEAS 3 TO 5 FT.

##### **FRI**

NW WIND 15 TO 20 KT. SEAS 3 TO 5 FT.

##### **FRI NIGHT**

NW WIND 15 TO 20 KT IN THE EVENING...BECOMING N 10 TO 15 KT AFTER MIDNIGHT. SEAS 2 TO 4 FT.

##### **SAT**

NW WIND 10 TO 15 KT. SEAS 2 TO 4 FT.

##### **SAT NIGHT**

W WIND 10 TO 15 KT IN THE EVENING...DECREASING TO 5 TO 10 KT AFTER MIDNIGHT. SEAS 2 TO 3 FT.

##### **SUN**

W WIND 5 TO 10 KT. SEAS 2 TO 3 FT.

##### **SUN NIGHT**

W WIND AROUND 10 KT EARLY IN THE EVENING...BECOMING NW 5 TO 10 KT LATE IN THE EVENING...THEN BECOMING N AROUND 5 KT AFTER MIDNIGHT...BECOMING W LATE. SEAS AROUND 2 FT IN THE EVENING...THEN 1 FOOT OR LESS AFTER MIDNIGHT.

**MON**

SW WIND 5 TO 10 KT...INCREASING TO 20 TO 25 KT. SEAS 1 FOOT OR LESS...THEN 2 TO 3 FT.

**TUE**

SW WIND AROUND 25 KT...BECOMING W 15 TO 20 KT AFTER MIDNIGHT. SEAS 2 TO 4 FT. A CHANCE OF RAIN. VSBY 1 TO 3 NM.

G. Personnel on Board:

SAIC SURVEY CREW: Paul Donaldson, Pam Clark, Gary R. Davis and Elizabeth Lobecker.

SHIP'S CREW: Steve Lunt, Dick Russell

I. Spares Consumed:

N/A

J. Comments

Took on Fuel, water and provisions.

Oil change completed

Fresh water system repaired. Running water available for showers, cleaning and cooking.

Crew change and pass off notes occurred: G. Davis and M. Lobecker relieved P. Donaldson and P. Clark.

Client representatives (Brian Andrews and Bill Danforth) visited the vessel while in Gloucester. Reviewed data and survey status with them. They were impressed with the quality of the preliminary data they saw and left happy.

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Signed: Gary R. Davis

To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
From: R/V OceanExplorer  
Subject: Cape Ann Survey Daily Progress Report  
For period Time: 0000 - 2400 (UTC) Date: 27 February 2004 JD 058

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A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Site	Cape Ann Site	Cape Ann Site	Cape Ann Site

B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	N 15-20	NW 10-15	NW 10	NW 5
Wave Height (ft)	3-4	3	2-3	1-2

C. Daily Events

Conducting 24 hr ops, collecting MB and XTF data.

D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	24:00	091:18
Transit	00:00	006:02
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	008:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
328	60.38	43.0	17.38

F. Work Plan for the Next 24 Hours

Continue Cape Ann Survey weather permitting.

**TONIGHT**

VARIABLE WIND 10 TO 15 KT EARLY IN THE EVENING ESPECIALLY FROM BOSTON HARBOR NORTH TO MERRIMACK RIVER...BECOMING N 15 TO 20 KT IN THE LATE EVENING AND EARLY MORNING...THEN DECREASING TO 10 TO 15 KT LATE. SEAS 3 TO 5 FT IN LEFTOVER SWELL FROM RECENT OCEAN STORMS.

**SAT**

NW WIND 10 TO 15 KT UNTIL LATE AFTERNOON...DECREASING TO 5 TO 10 KT LATE. SEAS 2 TO 4 FT.

**SAT NIGHT**

NW WIND 5 TO 10 KT. SEAS 2 TO 4 FT.

**SUN**

SW WIND AROUND 5 KT IN THE MORNING...BECOMING SE 5 TO 10 KT IN THE AFTERNOON. SEAS 2 TO 3 FT IN THE MORNING...SUBSIDING TO 1 TO 2 FT IN THE AFTERNOON.

**SUN NIGHT**

S WIND 10 TO 15 KT EARLY IN THE EVENING...BECOMING W IN THE LATE EVENING AND OVERNIGHT. SEAS 1 FOOT OR LESS.

**MON**

NW WIND AROUND 10 KT EARLY IN THE MORNING...BECOMING SE 5 TO 10 KT IN THE AFTERNOON. SEAS 1 TO 2 FT.

**MON NIGHT**

SE WIND AROUND 5 KT...BECOMING S 10 TO 15 KT. SEAS 1 FOOT OR LESS IN THE EVENING...THEN 2 TO 3 FT AFTER MIDNIGHT.

**TUE**

S WIND 15 TO 20 KT IN THE MORNING...BECOMING SW 25 TO 30 KT WITH GUSTS UP TO 40 KT POSSIBLE IN THE AFTERNOON AND EVENING...THEN BECOMING W 20 TO 25 KT AFTER MIDNIGHT. SEAS 2 TO 3 FT IN THE MORNING...BUILDING TO 3 TO 5 FT. A CHANCE OF RAIN. VSBY 1 TO 3 NM.

**WED**

W WIND 20 TO 25 KT...BECOMING NW 10 TO 15 KT. SEAS 2 TO 4 FT.

G. Personnel on Board:

SAIC SURVEY CREW: Gary R. Davis and Elizabeth Lobecker.

SHIP'S CREW: Steve Lunt, Dick Russell

I. Spares Consumed:

N/A

J. Comments

None

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Signed: Gary R. Davis

To: SAIC, Newport 401-848-4210 Attn.: Gary  
Parker  
From: R/V OceanExplorer  
Subject: Cape Ann Survey Daily Progress Report  
For period Time: 0000 - 2400 (UTC) Date: 28 February 2004 JD 059

#### A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Site	Cape Ann Site	Cape Ann Site	Cape Ann Site

#### B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	NW 5-10	NW 5-10	NW 5	NW10-15
Wave Height (ft)	1-2	1-2	1	2

#### C. Daily Events

Conducting 24 hr ops, collecting MB and XTF data.  
Shut down at 2355 (UTC) for GPS week roll over.

#### D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	24:00	115:18
Transit	00:00	006:02
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	008:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

#### E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
335	75.7	53.0	22.70

#### F. Work Plan for the Next 24 Hours

Continue Cape Ann Survey weather permitting.

##### **TONIGHT**

NW WIND AROUND 15 KT EARLY...BECOMING N 5 TO 10 KT. SEAS 2 TO 3 FT.

##### **SUN**

NW WIND 5 TO 10 KT...BECOMING SW AROUND 10 KT IN THE AFTERNOON. SEAS 1 TO 3 FT.

##### **SUN NIGHT**

SW WIND AROUND 10 KT...BECOMING NW 10 TO 15 KT AFTER MIDNIGHT. SEAS 1 TO 2 FT.

##### **MON**

NW WIND 10 TO 15 KT EARLY...BECOMING N 5 TO 10 KT AROUND MIDDAY...THEN SE AROUND 10 KT LATE. SEAS 1 TO 2 FT.

##### **MON NIGHT**

SE WIND AROUND 10 KT...BECOMING S AROUND 15 KT AFTER MIDNIGHT. SEAS 1 TO 3 FT.

##### **TUE**

S WIND 15 TO 20 KT...BECOMING SW AROUND 25 KT IN THE AFTERNOON. SEAS 2 TO 3 FT...BUILDING TO 3 TO 5 FT LATE. A CHANCE OF SHOWERS. VSBY 2 TO 3 NM.

**TUE NIGHT**

SW WIND AROUND 25 KT EARLY...BECOMING W. SEAS 3 TO 5 FT. A CHANCE OF SHOWERS EARLY. VSBY NEAR 3 NM.

**WED**

W WIND 20 TO 25 KT...DECREASING TO 10 TO 15 KT AT NIGHT. SEAS 3 TO 5 FT.

**THU**

W WIND AROUND 10 KT...BECOMING SE 10 TO 15 KT AFTER MIDNIGHT. SEAS 2 TO 3 FT. A CHANCE OF RAIN. VSBY 1 TO 3 NM.

G. Personnel on Board:

SAIC SURVEY CREW: Gary R. Davis and Elizabeth Lobecker.

SHIP'S CREW: Steve Lunt, Dick Russell

I. Spares Consumed:

N/A

J. Comments

In looking at the weather forecast for Tuesday and Wednesday, both Dick and Steve have offered to continue surveying until Tuesday morning around 0800 EST. They discussed the situation with Fred and all were in agreement that it makes sense to stay out as long as the weather and fuel allow. They offered and if the weather holds, I am planning to take advantage of the offer and stay on site into Tuesday morning.

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Signed: Gary R. Davis

To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
 From: R/V OceanExplorer  
 Subject: Cape Ann Survey Daily Progress Report  
 For period Time: 0000 - 2400 (UTC) Date: 29 February 2004 JD 060

A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Site	Cape Ann Site	Cape Ann Site	Cape Ann Site

B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	Lt. & Var.	W Light	Lt. & Var.	Lt. & Var.
Wave Height (ft)	Calm	Calm	Calm	Calm

C. Daily Events

Conducting 24 hr ops, collecting MB and XTF data.

D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	24:00	139:18
Transit	00:00	006:02
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	008:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
344	91.43	63.0	28.43

F. Work Plan for the Next 24 Hours

Continue Cape Ann Survey weather permitting. Return to Gloucester late afternoon.

**TONIGHT**

SW WIND 10 TO 15 KT BECOMING NW AROUND 10 KT. SEAS 1 TO 2 FT.

**MON**

N WIND 10 TO 15 KT EARLY IN THE MORNING...BECOMING NE 5 TO 10 KT IN THE LATE MORNING AND AFTERNOON. SEAS 1 TO 2 FT.

**MON NIGHT**

E WIND AROUND 5 KT IN THE EVENING...BECOMING SE 5 TO 10 KT AFTER MIDNIGHT. SEAS 1 TO 2 FT. A CHANCE OF RAIN AFTER MIDNIGHT WITH VSBY 1 TO 3 NM.

**TUE**

SE WIND AROUND 10 KT...BECOMING S 10 TO 15 KT LATE. SEAS 2 TO 4 FT. A CHANCE OF RAIN WITH VSBY 1 TO 3 NM.

**TUE NIGHT**

SW WIND 10 TO 15 KT. SEAS 2 TO 4 FT. A CHANCE OF RAIN. VSBY 1 TO 3 NM.

**WED**

W WIND 15 TO 20 KT. SEAS 2 TO 4 FT.

**WED NIGHT**

NW WIND AROUND 15 KT. SEAS 2 TO 4 FT.

**THU**

NW WIND 5 TO 10 KT IN THE MORNING...BECOMING SW IN THE AFTERNOON...THEN BECOMING S 10 TO 15 KT IN THE EVENING...INCREASING TO 15 TO 20 KT AFTER MIDNIGHT. SEAS 2 TO 4 FT. A CHANCE OF RAIN. VSBY 1 TO 3 NM.

**FRI**

SW WIND 20 TO 30 KT...BECOMING W IN THE EVENING...THEN BECOMING NW 15 TO 20 KT AFTER MIDNIGHT. SEAS BUILDING TO 4 TO 7 FT. A CHANCE OF RAIN. VSBY 1 TO 3 NM.

G. Personnel on Board:

SAIC SURVEY CREW: Gary R. Davis and Elizabeth Lobecker.

SHIP'S CREW: Steve Lunt, Dick Russell

I. Spares Consumed:

N/A

J. Comments

Yesterday (JD059) we backed up JD056 and 057 multibeam and XTF files from the F: drive to tape. Deleted these files from the F: drive to make room for additional data. We are collecting approximately 12-13 gB of data every 24 hours (depths 90-100 ft with 7Hz ping rate) and we were down to 13.5 gB free.

Today we backed up JD058 on tape and started to delete these files. While deleting one file at a time started to get ping drops. Deleted remaining files only in turns. This will leave 28.5 gB free which is enough to continue surveying to Monday afternoon.

Northwest corner of survey area is a rocky bottom and is littered with lobster pots.

We are planning to return to Gloucester tomorrow (Monday) around 1700, will confirm tomorrow. I estimate that at that point we will have used 9 days of survey (2/18, 2/23 – 3/1). This will allow us to review the data, discuss options with USGS, and perform data backup and maintenance on the hard drives, before the final 1-2 day push to complete the survey.

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Signed: Gary R. Davis



To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
 From: R/V OceanExplorer  
 Subject: Cape Ann Survey Daily Progress Report  
 For period Time: 0000 - 2400 (UTC) Date: 1 March 2004 JD 061

#### A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Site	Cape Ann Site	Cape Ann Site	Gloucester

#### B. Weather (UTC)

06:00	12:00	18:00	24:00
Wind Speed (Kts)	Calm	Calm	SE 5-10 NA
Wave Height (ft)	Calm	Calm	1 NA

#### C. Daily Events

Surveyed until 19:45 then returned to Gloucester at 2110. Completed all main scheme and cross lines within the area defined in the Statement of Work. This leaves approximately 24 hours of gap fill survey. Additional areas beyond the SOW boundary were surveyed in the northwest, southeast and west.

#### D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	19:45	159:03
Transit	01:30	007:32
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	008:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

#### E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
299	105.1	71.20	33.90

#### F. Work Plan for the Next 24 Hours

Back up all raw and processed data and deliver to Newport. No survey operations planned for next 24 hours.

#### **TONIGHT**

SE WIND 5 TO 10 KT THIS EVENING...BECOMING S AFTER MIDNIGHT...THEN INCREASING TO 10 TO 15 KT LATE. SEAS 1 FOOT OR LESS THIS EVENING...THEN 1 TO 2 FT AFTER MIDNIGHT.

#### **TUE**

S WIND 10 TO 15 KT UNTIL LATE AFTERNOON...BECOMING SW LATE. SEAS 2 TO 4 FT. A CHANCE OF SHOWERS IN THE MORNING...THEN SHOWERS LIKELY IN THE AFTERNOON. VSBY 1 TO 3 NM.

#### **TUE NIGHT**

SW WIND 10 TO 15 KT EARLY IN THE EVENING...BECOMING W 15 TO 20 KT IN THE LATE EVENING AND OVERNIGHT. SEAS 2 TO 4 FT. A CHANCE OF SHOWERS IN THE EVENING WITH VSBY 1 TO 3 NM.

#### **WED**

W WIND 15 TO 20 KT. SEAS 2 TO 4 FT.

**WED NIGHT**

NW WIND 15 TO 20 KT...DECREASING TO 5 TO 10 KT. SEAS 2 TO 3 FT IN THE EVENING...SUBSIDING TO 1 TO 2 FT AFTER MIDNIGHT.

**THU**

W WIND AROUND 5 KT EARLY IN THE MORNING...BECOMING SW 5 TO 10 KT IN THE LATE MORNING AND EARLY AFTERNOON...THEN INCREASING TO 10 TO 15 KT LATE. SEAS 1 TO 2 FT. A CHANCE OF RAIN IN THE AFTERNOON WITH VSBY 1 TO 3 NM.

**THU NIGHT**

SW WIND 5 TO 10 KT EARLY IN THE EVENING...INCREASING TO 10 TO 15 KT IN THE LATE EVENING AND OVERNIGHT. SEAS 2 TO 3 FT. A CHANCE OF RAIN WITH VSBY 1 TO 3 NM.

**FRI**

SW WIND 15 TO 20 KT IN THE MORNING...INCREASING TO 25 TO 30 KT WITH GUSTS UP TO 40 KT IN THE AFTERNOON AND EVENING...THEN BECOMING W 20 TO 25 KT WITH GUSTS UP TO 35 KT AFTER MIDNIGHT. SEAS 3 TO 5 FT...BUILDING TO 4 TO 7 FT. A CHANCE OF RAIN WITH VSBY 1 TO 3 NM.

**SAT**

W WIND 20 TO 25 KT IN THE MORNING...BECOMING S 10 TO 15 KT IN THE AFTERNOON...THEN BECOMING SE. SEAS 3 TO 5 FT. A CHANCE OF RAIN AFTER MIDNIGHT WITH VSBY 1 TO 3 NM AFTER MIDNIGHT.

G. Personnel on Board:

SAIC SURVEY CREW: Gary R. Davis and Elizabeth Lobecker.

SHIP'S CREW: Steve Lunt, Dick Russell

I. Spares Consumed:

N/A

J. Comments

Backed up raw ISSC data to tape, processed data to LTO, and Inav data to CD.

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Signed: Gary R. Davis

To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
 From: R/V OceanExplorer  
 Subject: Cape Ann Survey Daily Progress Report  
 For period Time: 0000 - 2400 (UTC) Date: 13 March 2004 JD 073

A. Location (UTC)

06:00	12:00	18:00	24:00
Gloucester	Gloucester	Gloucester	Gloucester

B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	N/A	N/A	W 15 -20	W 15-20
Wave Height (ft)	N/A	N/A	N/A	NA

C. Daily Events

Survey crew arrived, turned on systems, took draft, conducted leadline.

D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	19:45	159:03
Transit	01:30	007:32
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	008:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
0	105.1	71.20	33.90

F. Work Plan for the Next 24 Hours

Head to survey site begin gap fills and add on survey area. Will monitor weather for next 24 hours.

**TONIGHT**

NW WIND 20 TO 25 KT...DECREASING TO 15 TO 20 KT LATE.  
 SEAS 3 TO 5 FT.

**SUN**

NW WIND 10 TO 15 KT BECOMING S IN THE AFTERNOON. SEAS  
 SUBSIDING TO 2 TO 4 FT.

**SUN NIGHT**

S WIND 15 TO 20 KT IN THE EVENING...BECOMING SW  
 20 TO 25 KT IN THE LATE EVENING AND OVERNIGHT. SEAS 2 TO 4 FT  
 BUILDING TO 3 TO 5 FT. A CHANCE OF SHOWERS. VSBY 1 TO 3 NM AFTER  
 MIDNIGHT.

**MON**

SW WIND 20 TO 25 KT IN THE MORNING...BECOMING W AROUND 20 KT

IN THE AFTERNOON. SEAS 3 TO 5 FT. A CHANCE OF SHOWERS.

**MON NIGHT**

W WIND 20 TO 25 KT...DECREASING TO 5 TO 10 KT. SEAS 2 TO 4 FT.

**TUE**

W WIND 10 TO 15 KT BECOMING S AROUND 10 KT LATE. SEAS 1 TO 3 FT.

**TUE NIGHT**

SE WIND 5 TO 10 KT BECOMING NE 15 TO 20 KT AFTER MIDNIGHT. SEAS 1 TO 3 FT...BUILDING TO 3 TO 5 FT AFTER MIDNIGHT.

**WED**

NE WIND 20 TO 25 KT...BECOMING E 25 TO 30 KT AFTER MIDNIGHT. SEAS 4 TO 7 FT...BUILDING TO 7 TO 10 FT. A CHANCE OF SNOW. VSBY 1 TO 3 NM.

**THU**

E WIND 25 TO 35 KT IN THE MORNING...BECOMING SE 25 TO 30 KT IN THE AFTERNOON...THEN BECOMING SW 15 TO 20 KT. SEAS 8 TO 11 FT...SUBSIDING TO 4 TO 7 FT. A CHANCE OF SNOW SLEET OR RAIN WITH VSBY 1 TO 3 NM.

G. Personnel on Board:

SAIC SURVEY CREW: Pam Clark and Chuck Key

SHIP'S CREW: Fred Folsom

I. Spares Consumed:

N/A

J. Comments

Will begin gap fills and monitor weather for Monday, the forecast does not look good though Tuesday looks better, yet Wednesday looks terrible.

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Signed: Pam Clark.

To: SAIC, Newport 401-848-4210 Attn.: Gary  
Parker  
From: R/V OceanExplorer  
Subject: Cape Ann Survey Daily Progress Report  
For period Time: 0000 - 2400 (UTC) Date: 14 March 2004 JD 074

#### A. Location (UTC)

06:00	12:00	18:00	24:00
Gloucester	Gloucester	Cape Ann Site	Cape Ann Site

#### B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	N/A	W 10-12	W 12-15	S 15-20
Wave Height (ft)	N/A	1-2	1-2, Choppy	2-3

#### C. Daily Events

Second Captain arrived departed dock at 1300hrs headed for survey site. Conducted comparison cast.

#### D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	11:00	170:03
Transit	01:30	009:02
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	008:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

#### E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
94.68	109.43	76.20	33.23

#### F. Work Plan for the Next 24 Hours

Continue to survey. Will monitor weather for next 24 hours.

##### **TONIGHT**

S WIND 10 TO 15 KT...INCREASING TO 20 TO 25 KT AFTER MIDNIGHT. SEAS 1 TO 3 FT BUILDING TO 3 TO 5 FT. RAIN AND SNOW LATE THIS EVENING. RAIN AFTER MIDNIGHT. VSBY BRIEFLY LOWERING TO 1 TO 3 NM AFTER MIDNIGHT.

##### **MON**

SW WIND 15 TO 20 KT EARLY IN THE MORNING...BECOMING W 20 TO 25 KT IN THE LATE MORNING AND AFTERNOON. SEAS 3 TO 5 FT. A CHANCE OF RAIN IN THE MORNING.

##### **MON NIGHT**

W WIND 20 TO 25 KT...DIMINISHING AND BECOMING NW 5 TO 10 KT. SEAS SUBSIDING TO 2 TO 4 FT.

**TUE**

N WIND AROUND 5 KT IN THE MORNING...BECOMING NE 10 TO 15 KT EARLY IN THE AFTERNOON...THEN INCREASING TO 15 TO 20 KT LATE. SEAS 2 TO 4 FT. A CHANCE OF SNOW IN THE MORNING. SNOW LIKELY IN THE AFTERNOON. VSBY 1 TO 3 NM.

**TUE NIGHT**

NE WIND 15 TO 20 KT EARLY IN THE EVENING...INCREASING TO 20 TO 25 KT IN THE LATE EVENING AND OVERNIGHT. SEAS 3 TO 5 FT IN THE EVENING...BUILDING TO 4 TO 7 FT AFTER MIDNIGHT. SNOW. VSBY 1 TO 3 NM.

**WED**

NE WIND 25 TO 30 KT EARLY IN THE MORNING...DECREASING TO 20 TO 25 KT IN THE LATE MORNING AND AFTERNOON. SEAS 6 TO 9 FT. A CHANCE OF SNOW IN THE MORNING WITH VSBY 1 TO 3 NM.

**WED NIGHT**

NE WIND AROUND 20 KT. SEAS 6 TO 9 FT. A CHANCE OF SNOW. VSBY 1 TO 3 NM.

**THU**

NE WIND 20 TO 25 KT...DIMINISHING AND BECOMING E 5 TO 10 KT. SEAS 6 TO 9 FT. A CHANCE OF SNOW OR RAIN. VSBY 1 TO 3 NM.

**FRI**

SE WIND 5 TO 10 KT IN THE MORNING...BECOMING NE IN THE AFTERNOON...THEN BECOMING NW 10 TO 15 KT AFTER MIDNIGHT. SEAS 4 TO 6 FT...SUBSIDING TO 2 TO 4 FT AFTER MIDNIGHT. A CHANCE OF SNOW OR RAIN SHOWERS WITH VSBY 1 TO 3 NM.

**G. Personnel on Board:**

SAIC SURVEY CREW: Pam Clark and Chuck Key

SHIP'S CREW: Fred Folsom and Steve Lunt

**I. Spares Consumed:**

MVP Fish tow body

**J. Comments**

Wind continued to build in the afternoon. With a south wind the near-shore areas should be accessible in higher winds.

Weld on the MVP tow fish let go, swapped tow fish bodies.

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Signed: Pam Clark

To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
From: R/V OceanExplorer  
Subject: Cape Ann Survey Daily Progress Report  
For period Time: 0000 - 2400 (UTC) Date: 15 March 2004 JD 075

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A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Site	Cape Ann Site	Cape Ann Site	Cape Ann Site

B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	S 15-20	S 10-15	NW 20-25	W 15-20
Wave Height (ft)	2-4	1-3	2-4	1-3

C. Daily Events

Completed gap fills, began additional survey area lines. Weather was rough in the AM, gusts over 30 kts, resulting in running lines with the seas, south, for about 6 hours. Weather calmed and seas state is following suit.

D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	24:00	194:03
Transit	00:00	009:02
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	008:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
192	118.21	86.20	32.01

F. Work Plan for the Next 24 Hours

Continue to survey until weather permits on Tuesday at which point we will head into Gloucester and proceed to shut-down the vessel. Tape the data and collect sensors, laptops, etc. to bring back to Newport.

**TONIGHT**

W WIND 15 TO 20 KT WITH GUSTS UP TO 30 KT OVER THE FAR NORTHERN PORTION EARLY THIS EVENING. SEAS 2 TO 4 FT.

**TUE**

N WIND 10 TO 15 KT EARLY IN THE MORNING...BECOMING NE AND INCREASING TO 15 TO 20 KT WITH GUSTS UP TO 25 KT LATE. SEAS 2 TO 4 FT. SNOW IN THE AFTERNOON. VSBY 1 NM OR LESS.

**TUE NIGHT**

NE WIND 15 TO 20 KT WITH GUSTS UP TO 30 KT...INCREASING

TO 25 TO 30 KT WITH GUSTS UP TO 45 KT. SEAS 3 TO 5 FT IN THE EVENING...BUILDING TO 8 TO 13 FT AFTER MIDNIGHT. HEAVY SNOW IN THE EVENING...CHANGING TO SLEET. VSBY 1 NM OR LESS.

**WED**

NE WIND 25 TO 30 KT IN THE MORNING...BECOMING N 20 TO 25 KT IN THE AFTERNOON. GUSTS UP TO 40 KT. SEAS 12 TO 17 FT. SNOW AND SLEET. VSBY 1 NM TO 3 NM. COASTAL FLOODING EXPECTED AT THE TIME OF HIGH TIDE IN THE EARLY MORNING.

**WED NIGHT**

N WIND 20 TO 25 KT IN THE EVENING...BECOMING NW 15 TO 20 KT AFTER MIDNIGHT. SEAS 8 TO 13 FT. A CHANCE OF SNOW IN THE EVENING. VSBY 1 NM OR LESS.

**THU**

NW WIND 10 TO 15 KT. SEAS 4 TO 7 FT IN THE MORNING...SUBSIDING TO 3 TO 5 FT IN THE AFTERNOON.

**THU NIGHT**

W WIND 10 TO 15 KT EARLY IN THE EVENING...DECREASING TO 5 TO 10 KT LATE IN THE EVENING...BECOMING S 10 TO 15 KT LATE. SEAS 2 TO 3 FT. A CHANCE OF SNOW AFTER MIDNIGHT. VSBY 1 NM OR LESS LATE.

**FRI**

SE WIND 20 TO 25 KT IN THE MORNING...THEN BECOMING NE 15 TO 20 KT IN THE EVENING...BECOMING NW 20 TO 25 KT AFTER MIDNIGHT. GUSTS UP TO 35 KT IN THE AFTERNOON. SEAS AROUND 2 FT IN THE MORNING...BUILDING TO 4 TO 7 FT. SNOW LIKELY....CHANGING TO RAIN. VSBY 1 NM TO 3 NM.

**SAT**

NW WIND AROUND 20 KT...BECOMING W 15 TO 20 KT. GUSTS UP TO 30 KT. SEAS 4 TO 7 FT.

G. Personnel on Board:

SAIC SURVEY CREW: Pam Clark and Chuck Key

SHIP'S CREW: Fred Folsom and Steve Lunt

I. Spares Consumed:

N/A

J. Comments

Weather was very rough in the AM into mid-day. Monitored the conditions carefully morning, relieved when weather subsided in the early evening.

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Signed: Pam Clark



To: SAIC, Newport 401-848-4210 Attn.: Gary Parker  
 From: R/V OceanExplorer  
 Subject: Cape Ann Survey Daily Progress Report  
 For period Time: 0000 - 2400 (UTC) Date: 16 March 2004 JD 076

#### A. Location (UTC)

06:00	12:00	18:00	24:00
Cape Ann Site	Cape Ann Site	Cape Ann Site	Gloucester

#### B. Weather (UTC)

	06:00	12:00	18:00	24:00
Wind Speed (Kts)	NW 10-15	N 15	NNE 15-20	NE 20-25
Wave Height (ft)	1-2	1-2	2-4	4-6+

#### C. Daily Events

Continued running additional survey lines. Winds began building, 1200hrs UTC, and continued throughout the day. Left survey site, 2000 hrs, sea state was 4-6' winds over 20 kts, and snowing. Arrived at Cape Ann Marina 2200 hrs.

#### D. Operational (Hours)

	Daily	Cumulative
Mobilization	00:00	000:00
Survey	20:35	214:38
Transit	01:25	010:27
Weather Down Time	00:00	000:00
Arrival and Checkout	00:00	006:00
Maintenance	00:00	008:00
Breakdown		
Equipment	00:00	000:00
Vessel	00:00	000:00

#### E. Work Progress vs. Work Planned

Daily (km)	Cumulative %	Plan % end of day	Deviation %
332	133.42	94.70	32.01

#### F. Work Plan for the Next 24 Hours

Make back-up tapes of jd073-jd076 shutdown all systems.

##### **TONIGHT**

NE WIND INCREASING TO 20 TO 30 KT. GUSTS UP TO 40 KT. SEAS 4 TO 6 FT IN THE EVENING...BUILDING TO 8 TO 13 FT AFTER MIDNIGHT. HEAVY SNOW IN THE EVENING. SNOW AND SLEET AFTER MIDNIGHT. VSBY 1 NM OR LESS AT TIMES.

##### **WED**

N WIND 25 TO 30 KT WITH GUSTS UP TO 40 KT. SEAS 10 TO 15 FT. SNOW. VSBY 1 NM OR LESS. MINOR COASTAL FLOODING AT THE TIME OF HIGH TIDE EARLY IN THE MORNING.

##### **WED NIGHT**

NE WIND 20 TO 25 KT UNTIL EARLY MORNING...BECOMING N 15 TO 20 KT LATE. SEAS 8 TO 11 FT IN THE EVENING...SUBSIDING TO 6 TO 9

FT AFTER MIDNIGHT. SNOW LIKELY. VSBY 1 TO 3 NM..

**THU**

N WIND 15 TO 20 KT WITH GUSTS UP TO 25 KT EARLY IN THE MORNING...THEN BECOMING NW 5 TO 10 KT LATE. SEAS 5 TO 8 FT. A CHANCE OF SNOW IN THE MORNING. VSBY 1 TO 3 NM.

**THU NIGHT**

SW WIND AROUND 5 KT UNTIL EARLY MORNING...BECOMING S 5 TO 10 KT LATE. SEAS 3 TO 4 FT. A CHANCE OF SNOW. VSBY 1 TO 3 NM..

**FRI**

E WIND 10 TO 15 KT IN THE MORNING...BECOMING NE IN THE AFTERNOON. SEAS 3 TO 4 FT. SNOW LIKELY. VSBY 1 NM OR LESS.

**FRI NIGHT**

N WIND 10 TO 15 KT IN THE EVENING...BECOMING NW 5 TO 10 KT AFTER MIDNIGHT. SEAS 2 TO 4 FT. A CHANCE OF SNOW. VSBY 1 TO 3 NM.

**SAT**

W WIND 10 TO 15 KT IN THE MORNING...BECOMING SW IN THE AFTERNOON...THEN INCREASING TO 15 TO 20 KT WITH GUSTS UP TO 30 KT. SEAS 2 TO 4 FT. A CHANCE OF RAIN SHOWERS AT NIGHT. VSBY 1 TO 3 NM.

**SUN**

W WIND 15 TO 20 KT WITH GUSTS UP TO 25 KT...DECREASING TO 10 TO 15 KT AFTER MIDNIGHT. SEAS 2 TO 4 FT.

G. Personnel on Board:

SAIC SURVEY CREW: Pam Clark and Chuck Key

SHIP'S CREW: Fred Folsom and Steve Lunt

I. Spares Consumed:

N/A

J. Comments

TAIM program timed out and iNavLog crashed. Restarted both programs and were up and running again.

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Signed: Pam Clark