

**R/V WESTERN FLYER MARS Survey
Daily Operations Report #9 9 December, 2003**

To: Fugro Seafloor Surveys, Inc.
Attn: Debra Peat
Mars@seafloor.com

Copy: MBARI
Attn: Keith Raybould
Keith@mbari.org

Note: All Daily Operations Report times are Local (PST), which is UTC-8 hours.

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HEALTH, SAFETY AND ENVIRONMENT (HSE)

	<u>Today</u>	<u>Total</u>
Project Safety Meetings	0	0
Emergency Drills	0	0
Incident Notifications	0	0

MIDNIGHT SHIP'S POSITION

Dockside at MBARI

PERSONNEL ON BOARD

Total Fugro: 6
Client Representative: 1
Ship's crew: 10

WEATHER

N/A

SURVEY OPERATIONS

DAILY SUMMARY:

<u>From</u>	<u>To</u>	<u>Duration</u>	<u>CODE</u>	
0000	1800	18.0	MOB	Demobilizing FSSI/Mobilizing SeaScout
1800	2400	6.0	STB	Standby to complete mob next day

CUMULATIVE TIMES (in decimal hours):

<u>Activity</u>	<u>Code</u>	<u>Total to Yesterday</u>	<u>Total Today</u>	<u>Total to Date</u>
Mobilization	MOB	65.4	18.0	83.4
Transit	TRA	13.1	0.0	13.1
Calibration	CAL	23.0	0.0	23.0
Survey	SUR	87.6	0.0	87.6
Development	DEV	7.0	0.0	7.0
Standby	STB	4.0	6.0	10.0
Equipment Down	EDN	5.3	0.0	5.3

INTENTIONS FOR NEXT 24 HOURS

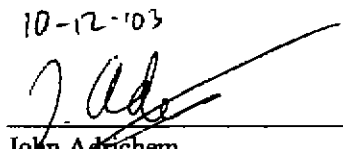
Complete mobilization, sail at 0800 and perform MCT testing, weather permitting.

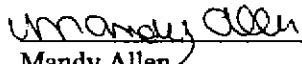
PARTY CHIEF COMMENTS:

At 1600 a project kick-off meeting with Client and project key personnel was held. SeaScout operations were discussed, HSE items will be discussed after abandon ship drill tomorrow.

CLIENT REPRESENTATIVE COMMENTS:

10-12-03


John Adrichem
Party Chief Geotechnical Survey
Fugro Engineers B.V.


Mandy Allen
Client Representative
Monterey Bay Aquarium Research Inst.

**R/V WESTERN FLYER MARS Survey
Daily Operations Report #10 10 December, 2003**

To: Fugro Seafloor Surveys, Inc.
Attn: Debra Peat
Mars@seafloor.com

Copy: MBARI
Attn: Keith Raybould
Keith@mbari.org

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HEALTH, SAFETY AND ENVIRONMENT (HSE)

	<u>Today</u>	<u>Total</u>
Project Safety Meetings	1	1
Emergency Drills	1	1
Incident Notifications	0	0

MIDNIGHT SHIP'S POSITION

Location CPT031 (36° 42.711' N, 122° 13.709 W)

PERSONNEL ON BOARD

Total Fugro: 6
Client Representative: 1
Ship's crew: 10

WEATHER

Noon:

Wind Direction: W
Wind Speed: 10-20 knots
Temperature: 15 degrees C
Swell height: 12-16 ft

SURVEY OPERATIONS

DAILY SUMMARY:

<u>From</u>	<u>To</u>	<u>Duration</u>	<u>CODE</u>	
0000	0700	7.0	STB	Standby to complete mob
0700	0800	1.0	MOB	Mobilizing SeaScout
0800	1055	2.9	TRA	Transit to location CPT031
1055	2400	13.1	STB	Waiting on weather

CUMULATIVE TIMES (in decimal hours):

<u>Activity</u>	<u>Code</u>	<u>Total to Yesterday</u>	<u>Total Today</u>	<u>Total to Date</u>
Mobilization	MOB	83.4	1.0	84.4
Transit	TRA	13.1	2.9	16.0
Calibration	CAL	23.0	0.0	23.0
Survey	SUR	87.6	0.0	87.6
Development	DEV	7.0	0.0	7.0
Standby	STB	10.0	20.1	30.1
Equipment Down	EDN	5.3	0.0	5.3

INTENTIONS FOR NEXT 24 HOURS

Weather should improve according to forecast. Crew change scheduled for the morning, continue MCT testing.

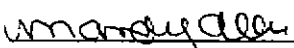
PARTY CHIEF COMMENTS:

Mobilisation completed at 0800. A system check was performed (System Test Data Acquisition). Results were within specifications. At 0915 an abandon ship drill was held, followed by a safety induction meeting.

CLIENT REPRESENTATIVE COMMENTS:

11-12-'03

John Adrichem
Party Chief Geotechnical Survey
Fugro Engineers B.V.


Mandy Allen
Client Representative
Monterey Bay Aquarium Research Inst.

**R/V WESTERN FLYER MARS Survey
Daily Operations Report #11 11 December, 2003**

To: Fugro Seafloor Surveys, Inc.
Attn: Debra Peat
Mars@seafloor.com

Copy: MBARI
Attn: Keith Raybould
Keith@mbari.org

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HEALTH, SAFETY AND ENVIRONMENT (HSE)

	<u>Today</u>	<u>Total</u>
Project Safety Meetings	0	1
Emergency Drills	0	1
Incident Notifications	0	0

MIDNIGHT SHIP'S POSITION

36° 48.048' N, 122° 11.022 W

PERSONNEL ON BOARD

Total Fugro: 6
Client Representative: 1
Ship's crew: 10

WEATHER

Noon:

Wind Direction: NW
Wind Speed: 10-20 knots
Temperature: 15 degrees C
Swell height: 6-8 ft

SURVEY OPERATIONS

DAILY SUMMARY:

<u>From</u>	<u>To</u>	<u>Duration</u>	<u>CODE</u>	
0000	0400	4.0	STB	Waiting on weather
0400	0730	3.5	TRA	Transit to shore for crew change
0730	0810	0.7	TRA	Transit to location CPT001
0810	1020	2.2	EDN	Repairs on HPU and SeaScout, replacing cone
1020	1033	0.2	SUR	Testing CPT001
1033	1110	0.6	TRA	Transit to location CPT002
1110	1121	0.2	SUR	Testing CPT002
1121	1144	0.4	TRA	Transit to location CPT003
1144	1200	0.3	SUR	Testing CPT003
1200	1239	0.6	TRA	Transit to location CPT004
1239	1253	0.2	SUR	Testing CPT004
1253	1321	0.5	TRA	Transit to location CPT005
1321	1335	0.2	SUR	Testing CPT005
1335	1420	0.8	TRA	Transit to location CPT006
1420	1430	0.2	SUR	Testing CPT006
1430	1519	0.8	TRA	Transit to location CPT007
1519	1531	0.2	SUR	Testing CPT007
1531	1546	0.3	TRA	Transit to location CPT008
1546	1554	0.1	SUR	Testing CPT008
1554	1606	0.2	TRA	Transit to location CPT009
1606	1614	0.1	SUR	Testing CPT009
1614	1625	0.2	TRA	Transit to location CPT010
1625	1636	0.2	SUR	Testing CPT010
1636	1649	0.2	TRA	Transit to location CPT011
1649	1701	0.2	SUR	Testing CPT011
1701	1713	0.2	TRA	Transit to location CPT012
1713	1722	0.1	SUR	Testing CPT012
1722	1740	0.3	TRA	Transit to location CPT013
1740	1817	0.6	EDN	Replacing cone
1817	1827	0.2	SUR	Testing CPT013
1827	1839	0.2	TRA	Transit to location CPT014
1839	1856	0.3	SUR	Testing CPT014
1856	1905	0.2	TRA	Transit to location CPT015
1905	1919	0.2	SUR	Testing CPT015
1919	1929	0.2	TRA	Transit to location CPT016
1929	1940	0.2	SUR	Testing CPT016

1940	1953	0.2	TRA	Transit to location CPT017
1953	2011	0.3	SUR	Testing CPT017
2011	2023	0.2	TRA	Transit to location CPT018
2023	2045	0.4	EDN	Replacing cone
2045	2104	0.3	SUR	Testing CPT018
2104	2117	0.2	TRA	Transit to location CPT019
2117	2135	0.3	SUR	Testing CPT019
2135	2148	0.2	TRA	Transit to location CPT020
2148	2208	0.3	SUR	Testing CPT020
2208	2221	0.2	TRA	Transit to location CPT021
2221	2239	0.3	SUR	Testing CPT021
2239	2252	0.2	TRA	Transit to location CPT022
2252	2313	0.3	SUR	Testing CPT022
2313	2324	0.2	TRA	Transit to location CPT023
2324	2345	0.2	SUR	Testing CPT023
2345	2400	0.2	TRA	Transit to location CPT031

CUMULATIVE TIMES (in decimal hours):

<u>Activity</u>	<u>Code</u>	<u>Total to Yesterday</u>	<u>Total Today</u>	<u>Total to Date</u>
Mobilization	MOB	84.4	0.0	84.4
Transit	TRA	16.0	11.5	27.5
Calibration	CAL	23.0	0.0	23.0
Survey	SUR	87.6	5.3	92.9
Development	DEV	7.0	0.0	7.0
Standby	STB	30.1	4.0	34.1
Equipment Down	EDN	5.3	3.2	8.5

INTENTIONS FOR NEXT 24 HOURS

Crew to get some rest, continue MCT testing at 0600 in the morning. Aiming for 1500 tide for port.

PARTY CHIEF COMMENTS:

Completion of job estimated Friday afternoon, will try and make tide window 1500 for port.
Lost & Damaged: 3 MCT cone rods.

CLIENT REPRESENTATIVE COMMENTS:

12-12-03



John Adrichem

Party Chief Geotechnical Survey
Fugro Engineers B.V.



Mandy Allen

Client Representative
Monterey Bay Aquarium Research Inst.

**R/V WESTERN FLYER MARS Survey
Daily Operations Report #12 12 December, 2003**

To: Fugro Seafloor Surveys, Inc.
Attn: Debra Peat
Mars@seafloor.com

Copy: MBARI
Attn: Keith Raybould
Keith@mbari.org

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HEALTH, SAFETY AND ENVIRONMENT (HSE)

	<u>Today</u>	<u>Total</u>
Project Safety Meetings	0	1
Emergency Drills	0	1
Incident Notifications	0	0

MIDNIGHT SHIP'S POSITION

Dockside at MBARI

PERSONNEL ON BOARD

Total Fugro: 6
Client Representative: 1
Ship's crew: 10

WEATHER

Noon:

Wind Direction: NW
Wind Speed: 5-10 knots
Temperature: 15 degrees C
Swell height: 5-7 ft

SURVEY OPERATIONS

DAILY SUMMARY:

<u>From</u>	<u>To</u>	<u>Duration</u>	<u>CODE</u>	
0000	0554	5.9	STB	Standby for crew's rest (MBARI & Fugro)
0554	0641	0.8	SUR	Testing CPT031, sub mini beacon lost during retrieval SeaScout
0641	0710	0.5	TRA	Transit to location CPT030
0710	0741	0.5	SUR	Testing CPT030
0741	0805	0.4	TRA	Transit to location CPT029
0805	0836	0.5	SUR	Testing CPT029
0836	0858	0.4	TRA	Transit to location CPT028
0858	0925	0.5	SUR	Testing CPT028
0925	0944	0.3	TRA	Transit to location CPT027
0944	1010	0.4	SUR	Testing CPT027
1010	1022	0.2	TRA	Transit to location CPT026
1022	1052	0.5	SUR	Testing CPT026
1052	1110	0.3	TRA	Transit to location CPT025
1110	1134	0.4	SUR	Testing CPT025
1134	1150	0.3	TRA	Transit to location CPT024
1150	1159	0.1	SUR	Testing CPT024, too little penetration
1159	1215	0.3	SUR	Testing CPT024a
1215	1420	2.1	TRA	Transit to Port Moss Landing
1420	1800	3.6	MOB	Demobilizing
1800	2400	6.0	STB	Standby in Port

CUMULATIVE TIMES (in decimal hours):

<u>Activity</u>	<u>Code</u>	<u>Total to Yesterday</u>	<u>Total Today</u>	<u>Total to Date</u>
Mobilization	MOB	84.4	3.6	88.0
Transit	TRA	27.5	4.5	32.0
Calibration	CAL	23.0	0.0	23.0
Survey	SUR	92.9	4.0	96.9
Development	DEV	7.0	0.0	7.0
Standby	STB	34.1	11.9	46.0
Equipment Down	EDN	8.5	0.0	8.5

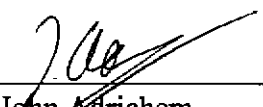
INTENTIONS FOR NEXT 24 HOURS

Complete demobilization.

PARTY CHIEF COMMENTS:

Job completed at 1215, 12 December 2003. Preliminary MCT results handed over to Client Rep.
Lost & Damaged: 1 sub mini beacon.

CLIENT REPRESENTATIVE COMMENTS:



John Adrichem
Party Chief Geotechnical Survey
Fugro Engineers B.V.

Mandy Allen
Client Representative
Monterey Bay Aquarium Research Inst.

**R/V WESTERN FLYER MARS Survey
Daily Operations Report #13 13 December, 2003**

To: Fugro Seafloor Surveys, Inc.
Attn: Debra Peat
Mars@seafloor.com

Copy: MBARI
Attn: Keith Raybould
Keith@mbari.org

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HEALTH, SAFETY AND ENVIRONMENT (HSE)

	<u>Today</u>	<u>Total</u>
Project Safety Meetings	0	1
Emergency Drills	0	1
Incident Notifications	0	0

MIDNIGHT SHIP'S POSITION

Dockside at MBARI

PERSONNEL ON BOARD

N/A

WEATHER

N/A

SURVEY OPERATIONS

DAILY SUMMARY:

<u>From</u>	<u>To</u>	<u>Duration</u>	<u>CODE</u>	
0000	0830	8.5	STB	Standby in Port
0830	1230	4.0	MOB	Demobilizing

CUMULATIVE TIMES (in decimal hours):

<u>Activity</u>	<u>Code</u>	<u>Total to Yesterday</u>	<u>Total Today</u>	<u>Total to Date</u>
Mobilization	MOB	88.0	4.0	92.0
Transit	TRA	32.0	0.0	32.0
Calibration	CAL	23.0	0.0	23.0
Survey	SUR	96.9	0.0	96.9
Development	DEV	7.0	0.0	7.0
Standby	STB	46.0	8.5	54.5
Equipment Down	EDN	8.5	0.0	8.5

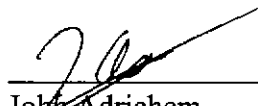
INTENTIONS FOR NEXT 24 HOURS

N/A

PARTY CHIEF COMMENTS:

Demobilization completed, Fugro crew leaves MV Western Flyer at 1230.

CLIENT REPRESENTATIVE COMMENTS:


John Adrichem
Party Chief Geotechnical Survey
Fugro Engineers B.V.

Mandy Allen
Client Representative
Monterey Bay Aquarium Research Inst.