

SONOBUOY LOG SHEET

CRUISE NO. RE25-10SONOBUOY NO. 1PROFILER ~~SHEET~~ NO. CDATE 12 Aug 84POSITION: LAT. 44°33' LONG. 45° 21'SONOBUOY CHAN 11HYDROPHONE DEPTH 60'SONOBUOY MODEL 57ATIME ON 0047/12 Aug. OFF 0315PIT LOG 445.7 OFF 457.1DISTANCE TRAVELED 11.4DEPTH 4094 m (from SEABEAM)SHIPS SPEED 4.8 kts.SEA STATE 3SEA SURFACE TEMP. 16.6° F

ON	GAIN	FILTER
A1		<u>10-63 Hz</u>
A2		<u>05-70 Hz - 02-20 Z</u>
B1		
B2		

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0 Delay initially, 5 sec. delay,REMARKS: Good signal-to-noise ratio.
Much improved results.At 0205Z, switch antennas.
(69 MHz to 168 MHz).

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 2PROFILER SHEET NO. CDATE 12 AUG 84

@ 0330Z

POSITION: LAT. 44° 37' N LONG. 45° 38.5' WSONOBUOY CHAN 8HYDROPHONE DEPTH 60'SONOBUOY MODEL 57A (BAG) 57BD.TIME ON 0330ZOFF 0545PIT LOG 458.3OFF 469.2DISTANCE TRAVELED 11.5 NMDEPTH 4022SHIPS SPEED 5.2SEA STATE 3SEA SURFACE TEMP. 65° Fahrenheit

ON	GAIN	FILTER
A1	_____	<u>5-70 Hz</u>
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 Delay 5.0 sec delay @ 0414ZRE MARKS: Junior stbd. side Same antenna as for SB #1

SONOBUOY LOG SHEET

CRUISE NO. RC-2510SC NOBUOY NO. 3PI OFILER SHEET NO. CDATE 12 AUG 54POSITION: LAT. 44° 42.36' LONG. 45° 52.23'SONOBUOY CHAN 18HYDROPHONE DEPTH 60'SONOBUOY MODEL 57ATIME ON 0600ZOFF 0830ZPIT LOG 471.2OFF 477.4DISTANCE TRAVELED 12.2 NMDEPTH 3853 mSHIPS SPEED 5.0 ktsSEA STATE 3SEA SURFACE TEMP. 65°F

ON	GAIN	FILTER
A1	_____	<u>5-70 Hz</u>
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec. @ first; 0650Z, 5 sec; 0812Z, 8 sec.REMARKS: Thrown on stbd side; same antenna as sonobuoy #1

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 4PROFILER SHEET NO. CDATE 12 AUG PYPOSITION: LAT. 44° 47.3' N LONG. 46° 12.1' WSONOBUOY CHAN 25HYDROPHONE DEPTH 60'SONOBUOY MODEL 57ATIME ON 0930Z OFF 1150ZPIT LOG 488.7 OFF 501.6DISTANCE TRAVELED 12.9 nmDEPTH 3632SHIPS SPEED 5.1SEA STATE 3SEA SURFACE TEMP. 68°F

ON	GAIN	FILTER	OFF	GAIN	FILTER
A1		<u>05/70 cycles</u>	A1		
A2		<u>05/50 cy - 1027Z</u>	A2		
B1		<u>05/30 cy - 1040Z</u>	B1		
B2		<u>05/20 cycles - 1044Z</u>	B2		

DELAY USED? 0. Delay @ first, 6 sec. @ 1020Z, 9 sec. @ 1128ZREMARKS: Thrown starboard side (a hell of a throw by Ms. Gerski). Same antenna as for #1.D.L. TAPE #195. MCS TAPE #23.

CHANGE LOW PASS FILTER TO DATA LOGGER 1128Z

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 5PROFILER SHEET NO. CDATE 12 AUG 84PC SITION: LAT. 44° 53.1' N LONG. 46° 31.2' WSONOBUOY CHAN 3HYDROPHONE DEPTH 60'SONOBUOY MODEL 57A (NO BAG)TIME ON 1230 ZPIT LOG 3505.5DISTANCE TRAVELED ~14.0DEPTH 3562 mSHIPS SPEED 58 (water) kts.SEA STATE 2SEA SURFACE TEMP. 68°F

paper record

OFF

1455 Z

OFF

519.5

ON	GAIN	FILTER
A1		05-70 cycles initial
A2		05-30 cycles - 1324 Z
B1		05-20 Hz 1402 Z
B2		03-20 Hz - 1423 Z

OFF	GAIN	FILTER
A1	Full	03-20 Hz
A2		
B1		
B2		

DELAY USED? 0 delay @ ^{THROWN} start, 7 sec. @ 1324 Z STAD. SIDE

REMARKS:

change to 10 sec. delay @ 14:41:30 Z

change back to 7 sec. delay @ 14:43 Z

Note: Sonobuoy still recording on Data Logger and on DFS IV.

Bridge notified that sonobuoy recording ended and they altered course to 2900. It was then 103 nm @ 1459 Z

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10TIME ON 1546 ZOFF 1848 Z ^{✓ PAPER RECORD}SONOBUOY NO. 6 (CHANNEL 8, 167.5 MHz)PIT LOG 523.9OFF 538.8PROFILER ~~SHEET~~ NO. CDISTANCE TRAVELED 14.9 NMDATE 12 AUG,DEPTH 3564POSITION: " LAT. 45°00.95'N LONG. 46°54.69'W "SHIPS SPEED 5.1 Kts.SONOBUOY CHAN 8SEA STATE 2 ~~4~~HYDROPHONE DEPTH 60'SEA SURFACE TEMP. 67° FSONOBUOY MODEL SSQ.57A

ON	GAIN	FILTER
A1		<u>5-70 start</u>
A2		<u>5-40 @ 1630 Z</u>
B1		<u>5-30 @ 1720 Z</u>
B2		<u>3-30 @ 1725 Z</u>

OFF	GAIN	FILTER
A1	<u>FULL</u>	<u>3-30 Hz</u>
A2		
B1		
B2		

DELAY USED? 0-10 s. StartREMARKS: 6-16 s, @ 1643 Z
9-19 s @ 1811 Z

DATA LOGGER

MCS

START

END

~~DECIHER~~ TAPE 196~~SECT~~ TAPE : 3439 (FASTEST REFRACTOR \approx 12 SEC @ 1830 Z)

NOTE: SONOBUOY CONTINUES TO BE TAPED TO 20S. ON DATA LOGGER

TAPE # 196; @ 1912 increase speed to 108 RPM - sonobuoy still recording on data logger to 20 s.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 7APROFILER ~~SHEET~~ NO. CDATE 12 AUG 84POSITION: LAT. 45° 32.73' N LONG. 48° 44.64' WSONOBUOY CHAN 9HYDROPHONE DEPTH 60'SONOBUOY MODEL 57A (NOBAG)TIME ON 0935Z OFF PIT LOG 616.3 OFF DISTANCE TRAVELED DEPTH 182 mSHIPS SPEED 5.0 ktSEA STATE 2SEA SURFACE TEMP. 62°

ON	GAIN	FILTER
A1	_____	05-70 c/s.
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? ∅ delay

REMARKS:

THROWN STBD SIDE; SAME ANTENNA
AS No. 1 S.B.

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

IT DIED — 0940Z

SONOBUOY LOG SHEET

CRUISE NO. Rc 25-10

SONOBUOY NO. 7 B

PROFILER SHEET NO. C

DATE 13 AUG 84

POSITION: LAT. 45 21.64 LONG. 48 45.16

SONOBUOY CHAN 23

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SS857A- (BAG)

TIME ON 0950 Z OFF

PIT LOG 617.5 OFF

DISTANCE TRAVELED

DEPTH 212 M

SHIPS SPEED 5.0

SEA STATE 2

SEA SURFACE TEMP. 62°F

ON	GAIN	FILTER
A1	_____	<u>5-70 Hz</u>
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 @ FIRST

REMARKS: THROWN STARBOARD SIDE AGAIN. GOOD SIGNAL.

SANK 0959 Z — probably hung up on streamer.
logged

SONOBUOY LOG SHEET

CRUISE NO. RL 25-10SONOBUOY NO. 7PROFILER SHEET NO. CDATE 13 AUG 84POSITION: LAT. 45° 30' LONG. 48° 46'SONOBUOY CHAN 31HYDROPHONE DEPTH 60'SONOBUOY MODEL 57A (BAG)TIME ON 1006OFF 1130ZPIT LOG 618.9OFF 625.8DISTANCE TRAVELED 6.9 nmDEPTH 121 MSHIPS SPEED 4.2SEA STATE 2SEA SURFACE TEMP. 62°F

ON	GAIN	FILTER
A1	<u>Start</u>	<u>05-70 cps</u>
A2	<u>1030Z</u>	<u>05-30 Hz</u>
	<u>1100Z</u>	<u>05-20 Hz</u>
B1	<u> </u>	<u> </u>
B2	<u> </u>	<u> </u>

OFF	GAIN	FILTER
A1	<u> </u>	<u> </u>
A2	<u> </u>	<u> </u>
B1	<u> </u>	<u> </u>
B2	<u> </u>	<u> </u>

DELAY USED? 0.0 sec @ StartREMARKS: Thrown forward/port side Good signal, Cleared streamer. Good record

SONOBUOY LOG SHEET

CRUISE NO. Rc 25-10SONOBUOY NO. 8PROFILER SHEET NO. CDATE 13 AUG 84POSITION: LAT. 45° 21.48' LONG. 48° 52.41'SONOBUOY CHAN 17HYDROPHONE DEPTH 60 FT.SC JOBUOY MODEL S7A- (BAG)TIME ON 1200ZOFF 1330ZPIT LOG 628.4OFF 636.1DISTANCE TRAVELED 7.7 AMDEPTH 82 M.SHIPS SPEED 5.2 kts.SEA STATE 2SEA SURFACE TEMP. 62° F

ON	GAIN	FILTER
A1	_____	05-20 cps. throughout
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec @ firstREMARKS: Thrown forward/port side. Good signal.

SONOBUOY LOG SHEET

CRUISE NO. RC-25-10SONOBUOY NO. 9APROFILER ~~SHEET~~ NO. CDATE 13 AUG 84

POSITION: LAT. _____ LONG. _____

SONOBUOY CHAN 24HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 1953OFF ABORTEDPIT LOG 668.3OFF —DISTANCE TRAVELED —DEPTH —SHIPS SPEED —SEA STATE —SEA SURFACE TEMP. —

<u>ON</u>	<u>GAIN</u>	<u>FILTER</u>
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A1	_____	_____
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A2	_____	_____
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B1	_____	_____
---------------	-------	-------

B2	_____	_____
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<u>OFF</u>	<u>GAIN</u>	<u>FILTER</u>
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A1	_____	_____
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A2	_____	_____
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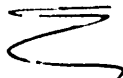
B1	_____	_____
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B2	_____	_____
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DELAY USED? 0-10 Sec. @ start

REMARKS:

No signal — SONOBUOY WDG.



SONOBUOY LOG SHEET

CRUISE NO. Rc 25-10SONOBUOY NO. 9BPROFILER ~~TYPE~~ NO. CDATE 13 Aug 84POSITION: LAT. 44°59.51'N LONG. 48°36.60'WSONOBUOY CHAN 29 (171.625 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 2003OFF 2011PIT LOG 669OFF —DISTANCE TRAVELED —DEPTH 1400mSHIPS SPEED 5.1 ktsSEA STATE 3SEA SURFACE TEMP. 62°F

<u>ON</u>	<u>GAIN</u>	<u>FILTER</u>
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A1	<u>—</u>	<u>5-70 Hz Start</u>
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A2	<u>—</u>	<u>—</u>
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B1	<u>—</u>	<u>—</u>
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B2	<u>—</u>	<u>—</u>
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DELAY USED? 0-10 Sec. at Start

<u>OFF</u>	<u>GAIN</u>	<u>FILTER</u>
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A1	<u>—</u>	<u>—</u>
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A2	<u>—</u>	<u>—</u>
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B1	<u>—</u>	<u>—</u>
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B2	<u>—</u>	<u>—</u>
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REMARKS:

ON DATA LOGGER TAPE #198ON MCS TAPE 85, FS 290SONOBUOY CAUGHT ON STREAMER AFTER 24 SHOTS, NDG.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 9PROFILER ~~SHEET~~ NO. CDATE 13 AUGUST 1984POSITION: LAT. 44° 54' LONG. 48° 25'SONOBUOY CHAN 5 (165.25 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 2148OFF 0017 14 AUG.PIT LOG 671.9OFF 691.4DISTANCE TRAVELED 19.5 NMDEPTH 1830SHIPS SPEED 5.0SEA STATE 3SEA SURFACE TEMP. 62° F

ON	GAIN	FILTER
A1		<u>5-20 Hz @ Start</u>
A2		5-40 Hz @ 2250 Z
B1		5-30 Hz @ 2310 Z
B2		

OFF	GAIN	FILTER
A1	<u>FULL</u>	<u>5-20 Hz</u>
A2		
B1		
B2		

 DELAY USED? 0-10 Sec. @ Start
7-17 Sec. @ 2307 Z
REMARKS: Recorded on data logger tape 198.
Recorded on MCS Tape 88, F/S 604.
Last shot #53 on Tape 92.

Receiver gain held constant throughout—.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 10 APROFILER ~~SHEET~~ NO. CDATE 14 Aug. 1984

POSITION: LAT. _____ LONG. _____

SONOBUOY CHAN 10HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 0058OFF ABORTED

PIT LOG _____

OFF _____

DISTANCE TRAVELED _____

DEPTH _____

SHIPS SPEED _____

SEA STATE 3SEA SURFACE TEMP. 64°FON GAIN FILTER

A1 _____ _____

~~A2~~ _____ _____~~B1~~ _____ _____~~B2~~ _____ _____OFF GAIN FILTER

A1 _____ _____

~~A2~~ _____ _____~~B1~~ _____ _____~~B2~~ _____ _____

DELAY USED? _____

REMARKS: DATA LOGGER TAPE #
198MCS TAPE # ON (SHOT) OFF (SHOT)
93 (175) AbortedABORTED @ 0110 - very low signal, very
noisy buoy.@ 0110
SHOT 205
Tape 94

SONOBUOY LOG SHEET

CFUISE NO. RC25-10SONOBUOY NO. 10PROFILER ~~SHEET~~ NO. CDATE 14 AUG. 1984 (GMT)POSITION: LAT. 44°43.16"N LONG. 48°03.77'WSONOBUOY CHAN 6 (166.00 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 0120 ZOFF 0430 ZPIT LOG 696.8OFF 713.4DISTANCE TRAVELED 16.6 NMDEPTH 3169 mSHIPS SPEED 5.3 KtsSEA STATE 3SEA SURFACE TEMP. 64° F

ON	GAIN	FILTER
A1	_____	5-20 Hz Start
A2	_____	5-70 Hz @ 0151 (Harry changed filters)
B1	_____	5-30 Hz @ 0155
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0-10 Sec. @ Start
1 SEC DELAY @ 0244 ZREMARKS: ON DATA LOGGER TAPE!
198 0120 Z FIRST SHOTON MCS TAPE 94: FIRST SHOT-235

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 11PROFILER ~~NUMBER~~ NO. CDATE 14 AUG 84POSITION: LAT. 44° 26.112' N LONG. 47° 09.971' WSONOBUOY CHAN 15HYDROPHONE DEPTH 60'SONOBUOY MODEL 57A (BAG)TIME ON 0935zOFF 1205zPIT LOG 739.5OFF 752.4DISTANCE TRAVELED 12.9 nmiDEPTH 3947mSHIPS SPEED 5.0SEA STATE 3SEA SURFACE TEMP. 70°C

ON	GAIN	FILTER
A1		5-70 Hz @ launch
A2		5-30 Hz @ 1035z
B1		5-30 Hz @ 1130z (different)
B2		bandpass filter

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0 Delay @ launch, 6.0 sec. delay @ 1040zREMARKS: Thrown port side/forward.

F/s: MCS data tape 109, shot# 721.

D.L. 199
L/s: MCS data tape 113, shot# 171.Important: See note on change in filtering, p. 19 of watch log.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10

SONOBUOY NO. 12

PROFILER ~~SECT~~ NO. C

DATE 14 Aug. 84

POSITION: LAT. _____ LONG. _____

SONOBUOY CHAN 5 (165.25 MHz)

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SSQ 57A

TIME ON 1633 Z

OFF 1917

PIT LOG 775.5

OFF 789.7

DISTANCE TRAVELED 24

DEPTH 3938

SHIPS SPEED 5.3

SEA STATE 3

SEA SURFACE TEMP. 72°

- PROFILER C
- MCS TAPE
- DATA LOGGER

ON	GAIN	FILTER
A1	_____	<u>5-70 Hz @ start</u>

A2	_____	<u>5-40 Hz @ 1721</u>
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B1	_____	<u>3-30 Hz @ 1843</u>
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B2	<u>1855 - High-pitched animal noise on sonobuoy.</u>	_____
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OFF	GAIN	FILTER
A1	_____	_____

A2	<u>increased 9dB @ 1721 Z</u>	_____
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B1	_____	_____
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B2	_____	_____
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DELAY USED? 0-10 sec. @ start; 6-16 sec. @ 1734 Z

REMARKS:

Source: 4 x 466 in³ airguns

1641 to 1643 Z - reduced gain on sono. receiver (signal was clipping on data going on MCS/Data logger tapes). Gain on tapes constant thereafter.

- ON DATA LOGGER TAPE # 199, F/S 1633 Z, (at 1752, noted Argonaut not firing and data logger tape needed to be changed; went back on with new data logger tape)
LAST SHOT ON TAPE # 200, F/S 1917 Z

- ON MCS TAPE # 121, F/S 975

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 13PROFILER ~~SEET~~ NO. CDATE 14 AUG. '84 - 15 AUG. '84

POSITION: LAT. _____ LONG. _____

SONOBUOY CHAN 29 (171.625 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57A

PROFILER C:

TIME ON 2314 OFF 0149PIT LOG 809.7 OFF 822.5DISTANCE TRAVELED 12.8 mi.DEPTH 5932SHIPS SPEED 5.0SEA STATE 3SEA SURFACE TEMP. 66°

ON	GAIN	FILTER
A1	_____	<u>5-70 Hz @ Start</u>
A2	_____	<u>5-40 Hz @ 2400 Z</u>
B1	_____	<u>3-40 Hz @ 0030 Z</u>
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0-10 sec. at start, 6-16 sec. @ 0010, 7-17 sec. @ 0142Z,REMARKS: 4 x 466 in³ airguns.

MCS TAPE:

TAPE #	FILE
<u>F/S 133</u>	<u>180</u>
<u>F/S 138</u>	<u>643</u>

DATA LOGGER TAPE:

TAPE #	TIME
<u>F/S 200</u>	<u>2314</u>
<u>F/S 200</u>	<u>0149</u>

SONOBUOY LOG SHEET

CRUISE NO. Rc25-10SONOBUOY NO. 14PROFILER ~~SHEET~~ NO. CDATE August 14, 1984PC SITION: LAT. 44° 04.99' LONG. 44° 56.91SONOBUOY CHAN 25'HYDROPHONE DEPTH 60'SONOBUOY MODEL 57ATIME ON 0300ZOFF 0357PIT LOG 827.7OFF 821.8DISTANCE TRAVELED ~~4.1 NM~~ 4.1 NMDEPTH 4422SHIPS SPEED 4.1 kt (through the water)SEA STATE 3SEA SURFACE TEMP. 66°F

ON	GAIN	FILTER
A1	_____	<u>5-70 Hz @ launch</u>
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec @ launchREMARKS: Thrown starboard side, amidshipsF/S = Tape # 140, S.P. 858Data logger tape 199 finished 0343
200 start 0344

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10

SONOBUOY NO. 15

PROFILER ~~1500~~ NO. C

DATE 14 AUG 84

POSITION: LAT. 44° 09.705' N LONG. 44° 29.618' W

SONOBUOY CHAN 25

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SSA 57A (BAG)

TIME ON 0805Z

OFF 1000Z

PIT LOG 849.5

OFF 861.6

DISTANCE TRAVELED 12.1 nmi

DEPTH 4643M

SHIPS SPEED 6.7 kts (5.0 kt ground speed)

SEA STATE 3

SEA SURFACE TEMP. 66°F

ON	GAIN	FILTER
A1	_____	05/70 Hz @ launch
A2	_____	05/30 Hz @ 0846Z
B1	_____	05/20 Hz @ 0909Z
B2	_____	05/30 Hz @ 0914Z
	_____	05/20 Hz @ 0925Z

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0sec @ launch, 6sec @ 0846Z

REMARKS: Thrown port side-forward. Good signal. Start MCS tape = 150, S.P. 773
Finish: MCS tape = 153, S.P. 119

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 16PROFILER ~~NO.~~ NO. CDATE August 15, 1984POSITION: LAT. 44° 14.325' N LONG. 44° 50.626' WSONOBUOY CHAN 27HYDROPHONE DEPTH 60'SONOBUOY MODEL 57ATIME ON 1115 ZOFF 1330 ZPIT LOG 869.8OFF 883.0DISTANCE TRAVELED 13.2 nmiDEPTH 4431 mSHIPS SPEED 5.9 kts.SEA STATE 3SEA SURFACE TEMP. 67°F

ON	GAIN	FILTER
A1		05/70 Hz, @ launch
A2		05/30 Hz @ 1200 Z
B1		05/20 Hz @ 1220 Z
B2		

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0 sec. @ launch, 6.0 sec delay @ 1200 Z L/S: MCS = Tape 159, S.P. 748REMARKS: Thrown port-side forward.
Good signal, but very
noisy (fish noise?) @ the end.F/S: MCS = Tape = 155, S.P. 346
Data Logger Tape = 201

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 17PROFILER ~~SECT~~ NO. cDATE 15 Aug 84 (228)PC SITION: LAT. "44°30.12'N LONG. 46°09.86'W"SC NOBUOY CHAN 31 (173.125 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL 53Q 57APROFILER C:TIME ON 2210Z OFF 0030Z 16 Aug. 84PIT LOG 929.7 OFF 942.5DISTANCE TRAVELED 12.8 mi.DEPTH 3828mSHIPS SPEED 5.4 KtsSEA STATE 4SEA SURFACE TEMP. 68°

ON	GAIN	FILTER
<u>A/C</u>	<u>_____</u>	<u>05/70 Hz @ start</u>
<u>AZ</u>	<u>_____</u>	<u>05/40 Hz @ 2256Z</u>
<u>B1</u>	<u>_____</u>	<u>_____</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

OFF	GAIN	FILTER
<u>A/C</u>	<u>_____</u>	<u>Increased periodically throughout</u>
<u>AZ</u>	<u>_____</u>	<u>_____</u>
<u>B1</u>	<u>_____</u>	<u>_____</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

DELAY USED? 0-10 sec @ Start, 6-16 sec. @ 2302 Z

REMARKS:

DATA LOGGER:MCS:TAPE #TIMETAPE #FILE

F/S 202 2210 Z 174 307

4/S 202 0030 Z 178 726

D-WAVE FADES RAPIDLY
BEYOND 2245 Z.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10 / NEWFOUNDLAND BASINSONOBUOY NO. 18PROFILER NO. CDATE 16 August 1984POSITION: LAT. 44° 00.04' N LONG. 46° 59.19' W (9222)SONOBUOY CHAN 11HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57A (SPARTAN)TIME ON 0915ZOFF 1200ZPIT LOG 989.8OFF 1004.0DISTANCE TRAVELED 14.2DEPTH 4172 m.SHIPS SPEED 5.0 kts.SEA STATE 2SEA SURFACE TEMP. 70°F

ON	GAIN	FILTER
<u>Arc</u>	<u> </u>	<u>5-70 Hz @ launch</u>
<u>A2</u>	<u> </u>	<u>5-30 Hz @ 1018Z</u>
<u>B1</u>	<u> </u>	<u>5-20 Hz @ 1035Z</u>
<u>B2</u>	<u> </u>	<u> </u>

OFF	GAIN	FILTER
<u>AT</u>	<u> </u>	<u> </u>
<u>A2</u>	<u> </u>	<u> </u>
<u>B1</u>	<u> </u>	<u> </u>
<u>B2</u>	<u> </u>	<u> </u>

DELAY USED? 0 sec @ launch, 6 sec @ 1018Z

REMARKS:

DATA LOGGER:

MCS:

Excellent SNR

	TAPE #	TIME	TAPE #	FILE
F/S	202	0915Z	F/S	194 302
H/S	203	1200Z	H/S	199 769

gain from sonobuoy revs.
EXTRA 15 DB GAIN to 550B / left constant throughout buoy
ONLY
End of DFS record @ reel 199, S.P. 769

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10

SONOBUOY NO. 19

PROFILER ~~NO.~~ NO. C

DATE ¹⁹⁸⁴ Aug 16 (229 J.D.)

POSITION: LAT. 43°33.07'N LONG. 47°11.9'W

SONOBUOY CHAN 19 (164.125 MHz)

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SSQ 57A

TIME ON 1512

OFF 1815 Z

PIT LOG 1020.2

OFF 1036.6

DISTANCE TRAVELED 16.4 mi.

DEPTH 4175

SHIPS SPEED ~5.3

SEA STATE @2

SEA SURFACE TEMP. 74° F

LAUNCH ON STBD. SIDE. WIND FROM PORT @ SKTS.
(DUE EAST)

ON	GAIN	FILTER
<u>A/C</u>	<u>_____</u>	<u>5-70 Hz @ START</u>
<u>A2</u>	<u>_____</u>	<u>5-40 Hz @ 1603:30</u>
<u>B1</u>	<u>_____</u>	<u>3-20 Hz @ 1630</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

OFF	GAIN	FILTER
<u>A/C</u>	<u>30+ dB @ end</u>	<u>_____</u>
<u>A2</u>	<u>_____</u>	<u>_____</u>
<u>B1</u>	<u>_____</u>	<u>_____</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

DELAY USED? 0-10 SEC. @ START, 4-14 SEC ~ 1532 Z, 7-17 SEC @ 1700 Z,

REMARKS:

fshot S.B. #19 ~~SP. 375 tape 368~~

DATA LOGGER		MCS FILE	
TAPE #	TIME	TAPE #	FILE
F/S 203	1512	F/S 205	368
L/S 203	1815	H/S 210	923

NOTE: 1812 - S.B. receiver gain increased; otherwise receiver gain was constant throughout recording.

NOTE: SONOBUOY @ AIRSUNS @ 1512 Z, MCS FILE 368, BUT NO RECORD ON PROFILER C, DATA LOGGER, OR MCS TAPE UNTIL 1514 Z, FILE 381 BECAUSE DATA LOGGER WAS NOT ON.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 20PROFILER ~~SHEET~~ NO. CDATE 17 Aug. '84

POSITION: LAT. _____ LONG. _____

SONOBUOY CHAN 20 (164.875 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SEC 57ATIME ON 0040 Z OFF 0300 ZPIT LOG 1071.8 OFF 1084.8DISTANCE TRAVELED 13.0DEPTH 4055SHIPS SPEED 5.6SEA STATE 2SEA SURFACE TEMP. 75° F

Launch on Stbd. side - wind from 40° left of bow, 7 kts

ON	GAIN	FILTER
ATC	_____	5-70 Hz Start
AZ	_____	5-40 Hz @ 0127
B1	_____	5-20 Hz.
BZ	_____	_____

OFF	GAIN	FILTER
ATC	_____	_____
AZ	_____	_____
B1	_____	_____
BZ	_____	_____

DELAY USED? 0-10 SEC. @ START; 5-15 Sec. @ 0124 Z;

REMARKS:

DATA LOGGER;

MCS!

TAPE # TIME

TAPE # FILE

F/S 204 0040

F/S 221 81

H/S 204 0300

H/S 226

END
SHOT POINT 501

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 21PROFILER ~~3155~~ NO. CDATE 17 AUG 84POSITION: LAT. 42°25.18'N LONG. 47°27.66'WSONOBUOY CHAN 21HYDROPHONE DEPTH 60'SONOBUOY MODEL 57ATIME ON 0450ZOFF 0620ZPIT LOG 1094.8OFF 1103.0

DISTANCE TRAVELED _____

DEPTH 3887.8SHIPS SPEED 5.0 kts.SEA STATE 2SEA SURFACE TEMP. 75°F

ON	GAIN	FILTER
A1	_____	05/70 HZ @ launch
A2	_____	05/30 HZ @ 0545Z
B1	_____	05/20 HZ @ 0615Z
B2	_____	_____

OFF	GAIN	FILTER
	GUNS OFF	0624Z
A1	GUNS ON	0629Z
A2	NOT RECORDING S.B.	
	DATA LOGGER CRASHED	
B1	_____	_____
B2	_____	_____

DELAY USED? 0sec @ launch, 6sec @ 0545ZREMARKS: Good signal — however
Over a very large buried seamountMCS
SP. 829
tape 229Data Logger
1094.8 204
(pit log)

SONOBUOY LOG SHEET

CF UISE NO. Rc 25-10

SO JOBUOY NO. 21A

PROFILER ~~NO.~~ NO. C

DATE 17 AUG 84

POSITION: LAT. — LONG. —

SONOBUOY CHAN 25

HYDROPHONE DEPTH 60'

SONOBUOY MODEL 57A

TIME ON 0430Z

OFF 0442Z

PIT LOG 1093.0

OFF 1094.2

DISTANCE TRAVELED 1.2 nmi

DEPTH 3883

SHIPS SPEED 5.0 Kts

SEA STATE 2

SEA SURFACE TEMP. 75°F

ON	GAIN	FILTER
A1	—	<u>5-70 Hz</u>
A2	—	—
B1	—	—
B2	—	—

OFF	GAIN	FILTER
A1	—	—
A2	—	—
B1	—	—
B2	—	—

DELAY USED? 0 sec @ launch

REMARKS: Thrown port-side-forward
Past guns @ 0430Z
Activates @ 0431Z
Excellent signal.

MCS

Reel 228

S.P. 970

Data Logger

204

LOST ON STREAMER - 0442Z

SONOBUOY LOG SHEET

CRUISE NO. RC25-10

SONOBUOY NO. 22

PROFILER ~~SECT~~ NO. C

DATE 17 August 1984

POSITION: LAT. 42° 02.3' N LONG. 47° 33.3' W

SONOBUOY CHAN 23 (167.125 MHz)

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SSQ 57A

TIME ON 1505

OFF 1731

PIT LOG 1147.5

OFF 1160.95

DISTANCE TRAVELED 13.5

DEPTH 3988

SHIPS SPEED 5.8

SEA STATE 3

SEA SURFACE TEMP. 75°F

Launch stbd. side; wind 18-20 kts 20° off port bow

ON	GAIN	FILTER
ATC		05-20 @ START
AT		05-70 @ 1512 Z
B	Increase @	05-40 @ 1552 Z
BZ	Increase @	04-30 H ₃ @ 1632 Z 03-20 H ₃ @ 1552 Z

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0-10 Sec. @ START, 5-15 SEC. @ 1548 Z,

RE MARKS: Boat noisier than normal - wind/waves,

DATA LOGGER

MCS

TAPE #	TIME	TAPE #	FILE
--------	------	--------	------

MCS TAPE
START @ SP. 88, tape 242

Pit
Data logger
1147.5

F/S	206	1505	F/S	242	88
F/S	206	1731	F/S	246	528

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 23 APFOILER ~~SECT~~ NO. CDATE 17 Aug '84POSITION: LAT. "41°39.24'N LONG. 47°38.76'W"SONOBUOY CHAN 25 (168.625 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 2006OFF 2020PIT LOG 1175.65OFF -DISTANCE TRAVELED -DEPTH 4072 mSHIPS SPEED 5.9SEA STATE 3SEA SURFACE TEMP. 770

LAUNCH STBD—WIND 15kts 10° off port bow.

ON	GAIN	FILTER
<u>A1C</u>	<u>_____</u>	<u>5-70 Hz @ START</u>
<u>A2</u>	<u>_____</u>	<u>_____</u>
<u>B1</u>	<u>_____</u>	<u>_____</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

OFF	GAIN	FILTER
<u>A1</u>	<u>_____</u>	<u>_____</u>
<u>A2</u>	<u>_____</u>	<u>_____</u>
<u>B1</u>	<u>_____</u>	<u>_____</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

DELAY USED? 0-10 Sec. @ START

REMARKS:

DATA LOGGERMCS

	TAPE #	TIME	TAPE #	FILE
F/S	207	2006	250	992
U/S	207	2020	251	-

SONOB. CAUGHT IN STREAMER—
ABORTED AT 2020 Z,

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 23PROFILER ~~SHEET~~ NO. CDATE 17 Aug. 1984POSITION: LAT. 41° 36.04' N LONG. 47° 39.7' WSONOBUOY CHAN 7 (166.75 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 2045OFF 2240PIT LOG 1179.55OFF 1190.5DISTANCE TRAVELED 10.95DEPTH 4091SHIPS SPEED 5.6SEA STATE 3SEA SURFACE TEMP. 77°

ON	GAIN	FILTER
AT C		5-70 Hz @ START
A2	Gain increase →	5-40 Hz @ 2138Z
B1	Gain increase →	3-30 Hz @ 2222Z
B2		

OFF	GAIN	FILTER
A1 C		3-30 Hz
A2		
B1		
B2		

DELAY USED? 0-10 Sec. @ start; 5-15 sec. @ 2133; 7-17 sec. @ 2233Z.

REMARKS:

DATA LOGGER			MCS		
F/S	TAPE #	TIME	F/S	TAPE #	TIME
	207	2045		251	109
	207	2240		255	455

2230 - Airgun #4 pulled to repair hose.

1ms data on data logger.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10 → N^{line}B-10SONOBUOY NO. 24PROFILER ~~SHEET~~ NO. CDATE 18 AUG 84POSITION: LAT. 41° 06.75' N LONG. 47° 59.33' WSONOBUOY CHAN 13 @ 0304ZHYDROPHONE DEPTH 60'SC JOBUOY MODEL 57A (NO BAG)TIME ON 03:04ZOFF 0530ZPIT LOG 1214.5OFF 1228.5DISTANCE TRAVELED 14 nmi.DEPTH 3465MSHIPS SPEED 5.5 Kts.SEA STATE 2SEA SURFACE TEMP. 83°F

ON	GAIN	FILTER
<u>ATC</u>	<u>10X</u>	<u>05/70 Hz.</u>
<u>B2</u>	<u>"</u>	<u>05/20 Hz @ 0352Z</u>
<u>B1</u>	<u>_____</u>	<u>_____</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

OFF	GAIN	FILTER
<u>ATC</u>	<u>_____</u>	<u>_____</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>
<u>B1</u>	<u>_____</u>	<u>_____</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

DELAY USED? 0.0 SEC. @ launch, 7.0 sec @ 0406Z,REMARKS: Thrown starboard side amidships. Good signal.

DATA LOGGER:

MCS:

TAPE #	TIME	TAPE #	FILE #
<u>F/S 207</u>	<u>0301Z</u>	<u>F/S 263</u>	<u>236</u>
<u>225.4) 208</u>	<u>0456Z</u>	<u>L/S 268</u>	<u>687</u>
<u>L/S "</u>	<u>0530Z</u>		

<u>F/S 207</u>	<u>0301Z</u>		
<u>225.4) 208</u>	<u>0456Z</u>	<u>F/S 263</u>	<u>236</u>
<u>L/S "</u>	<u>0530Z</u>	<u>L/S 268</u>	<u>687</u>

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10 ^{LINE} NB-10

SONOBUOY NO. 25

PROFILER ~~NO.~~ NO. C

DATE 18 AUG 84

POSITION: LAT. 40° 51.48' N LONG. 48° 27.45' W

SONOBUOY CHAN 4

HYDROPHONE DEPTH 60'

SONOBUOY MODEL AKSSQ-57A (log)

TIME ON 0800 Z

OFF 1030 Z

PIT LOG 1241.8

OFF 1254.7

DISTANCE TRAVELED 12.9 nmi

DEPTH 3595m

SHIPS SPEED 5.2

SEA STATE 3

SEA SURFACE TEMP. 82°F

ON	GAIN	FILTER
A1	<u>10 DB</u>	<u>50-70 Hz @ launch</u>
A2	<u> </u>	<u>5-20 Hz @ 0848 Z</u>
BT	<u> </u>	<u>5-30 Hz @ 0857 Z</u>
BZ	<u> </u>	<u>5-20 Hz @ 0853 Z</u>

OFF	GAIN	FILTER
A1	<u> </u>	<u> </u>
A2	<u> </u>	<u> </u>
BT	<u> </u>	<u> </u>
BZ	<u> </u>	<u> </u>

DELAY USED? 00 sec. @ launch → 7 SEC. 0911 Z

REMARKS: Thrown starboard side - amidships.

F/s MCS: tape # 272, S.P. 137. Data Logger= 208

L/s: " : tape # 276, S.P. 546

Good signal.

START 10 DB GAIN
1012Z 15 DB GAIN

SONOBUOY LOG SHEET

CRUISE NO. RC25-10-NB-10 ^{LINE}SONOBUOY NO. 26PROFILER ~~NO.~~ NO. CDATE 18 AUG 84POSITION: LAT. 40° 30.08' N LONG. 48° 45.01' WSONOBUOY CHAN 24 1325ZHYDROPHONE DEPTH 60'SONOBUOY MODEL 57A-(BAG)TIME ON 1305ZOFF 1524PIT LOG 1268.2OFF 1280.0DISTANCE TRAVELED 11.8DEPTH 3704 M.SHIPS SPEED 5.0 Kts.SEA STATE 3SEA SURFACE TEMP. 80°F

ON	GAIN	FILTER
1 "C"		05/70 HZ @ 1400Z
2		05/25 HZ @ 1400Z
3		4/30 H ₃ @ 1438
4		3/20 H ₃ @ 1447
5		

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0.0 CN START — 6 SEC DELAY 1400ZREMARKS: 15 DB GAIN

Thrown starboard side amidships. Good signal.

F/S MCS = S.P. 50 TAPE # 281

D.L. TAPE # 208 ON @ 1305

L/S MCS = SP467 TAPE # 285

D.L. TAPE # 209 OFF @ 1524

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 27PROFILER ~~SHEET~~ NO. CDATE 19 August 1984PC SITION: LAT. 40° 06.809' N LONG. 48° 51.115' WSONOBUOY CHAN 18HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57ATIME ON 0315ZOFF 0530ZPIT LOG 1339.7OFF 1351.4DISTANCE TRAVELED 11.7 nmicDEPTH 4152MSHIPS SPEED ~~4.5~~ 5.0 KTSSEA STATE 4SEA SURFACE TEMP. 80°F

ON	GAIN	FILTER
<u>ATC</u>	<u>_____</u>	<u>05-70 Hz @ launch</u>
<u>A2</u>	<u>_____</u>	<u>05-30 Hz @ 0410Z</u>
<u>B1</u>	<u>_____</u>	<u>04-20 Hz @ 0506Z</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

OFF	GAIN	FILTER
<u>AT</u>	<u>_____</u>	<u>_____</u>
<u>AZ</u>	<u>_____</u>	<u>_____</u>
<u>B1</u>	<u>_____</u>	<u>_____</u>
<u>B2</u>	<u>_____</u>	<u>_____</u>

DELAY USED? 0.0 DELAY ON START, 6.0 SEC. DELAY @ 0410Z
5cc.

REMARKS:

DATA LOGGER		MCS	
TAPE #	TIME	TAPE #	FILE
<u>F/S 209</u>	<u>0315Z</u>	<u>F/S 307</u>	<u>573</u>
<u>4S 209</u>	<u>0530Z</u>	<u>4S 311</u>	<u>978</u>

NB: Sonobuoy receiver gain set @ $\approx 50\%$, slightly lower (12.5-25%) than "normal" to examine evidence for clipping of signals on data logger.

SONOBUOY LOG SHEET

CRUISE NO. PC-25-10, line NB-11SONOBUOY NO. 28PROFILER SHEET NO. C/DATE 19 August 1984POSITION: LAT. 40° 12.537' LONG. 48° 03.722'SONOBUOY CHAN 22HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57ATIME ON 1050ZOFF 1250ZPIT LOG 1379.7OFF 1391.0

DISTANCE TRAVELED _____

DEPTH 4043mSHIPS SPEED 5.5 kts.SEA STATE 4SEA SURFACE TEMP. 80°F

ON	GAIN	FILTER
A1	_____	<u>05-70Hz @ launch</u>
A2	_____	<u>05-25Hz @ 1155Z</u>
B1	_____	<u>04-20Hz @ 1215Z</u>
B2	_____	<u>05-25Hz @ 1222Z</u>

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec @ launch, 1132Z 6 SEC DELAYREMARKS: Port side forward (leeward)
Good signal.Problem: Seamount @
1120Z.

Tapes
Data Logger
F/S = 210 (1050Z)
L/S = 210 (1250Z)

MCS
TAPE 321
SHOT 831
TAPE - 325
SHOT - 280

SONOBUOY LOG SHEET

CRUISE NO. R035-10, LINESONOBUOY NO. 29PROFILER ~~SHEET~~ NO. CDATE 19 AUG. 1984POSITION: LAT. 40° 13.83' N LONG. 47° 38.56' WSONOBUOY CHAN 28 (170.875 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 41BTIME ON 14:34:30 OFF 16:43:40PIT LOG 1400.3 OFF 1411.9DISTANCE TRAVELED 11.6DEPTH 3975SHIPS SPEED 5.5SEA STATE 4SEA SURFACE TEMP. 80°FLaunch on port side, wind 18 kts from
stbd. beam

ON	GAIN	FILTER
A1 C		5-70 Hz @ Start
A2'		5-30 Hz @ 1533
B1		4-20 Hz @ 1637
B2		

OFF	GAIN	FILTER
A1		4-20 Hz
A2		
B1		
B2		

DELAY USED? 0-10 Sec @ START, 6-16 Sec. @ 1531Z

REMARKS:

DATA LOGGER

MCS

TAPE # TIME

TAPE # FILE

fs 210 14:34

328 590

15 210 16:43

331 978

- 1453-55 Sono. revr. gain increased.
 - 1510 - " " " "
 - 1634 - " " " " TO FULL GAIN.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10 / line NB 12SONOBUOY NO. 30PROFILER ~~ANSSQ~~ NO. C/p.DATE 20 AugustPOSITION: LAT. 40° 21.199' N LONG. 47° 34.740' WSONOBUOY CHAN 21HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57A (BAG)

Start recording @ 0246Z

TIME ON 0245Z thru 1. OFF 0530ZPIT LOG 1449.8 OFF 1461.5

DISTANCE TRAVELED _____

DEPTH 3831MSHIPS SPEED 4.3 KTSSEA STATE 5SEA SURFACE TEMP. 79°F

ON	GAIN	FILTER	OFF	GAIN	FILTER
A1	_____	<u>5-70 Hz @ launch</u>	X1	_____	_____
A2	_____	<u>5-30 Hz @ 0358Z</u>	A2	_____	_____
B1	_____	<u>5-40 Hz @ 0430Z</u>	B1	_____	_____
B2	_____	_____	B2	_____	_____

DELAY USED? 0.0 sec. @ launch, 6 sec. DELAY 0353Z

REMARKS: Starboard side amidships launch.
 No data 0250-0254Z because of data
 logger crash.
 Recr. gain reduced @ 0300Z.

Tapes

MCS
 F/s: 51.472, #339
 L/s: 51.955 #344

Data logger
 211
 211

SONOBUOY LOG SHEET

CRUISE NO. KC 25-10 - ^(LINE)NB-12SONOBUOY NO. 31PROFILER ~~SHEET~~ NO. CDATE 20 Aug 84

POSITION: LAT. _____ LONG. _____

SONOBUOY CHAN 15 (172.75 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 2157OFF 2359PIT LOG 1543.6OFF 1553.2DISTANCE TRAVELED 9.6DEPTH 3458SHIPS SPEED 4.9SEA STATE 3SEA SURFACE TEMP. 82°LAUNCH TO STBD. - WIND 10 KTS FROM S-10°
OFF PORT BOW.

ON	GAIN	FILTER
A1C		5-70 Hz @ Start
A2	increased @	5-30 Hz @ 2256
B1	" @	5-20 Hz @ 2317
B2		

OFF	GAIN	FILTER
A1	Full GAIN ON EDO,	27 dB on filter.
A2		
B1		
B2		

DELAY USED? 0-10 Sec. Sweep @ Start, 5-15 Sec. @ 2250

REMARKS:

Data Logger		MCS	
Tape #	Time	Tape #	FILE
F/S 214	2157	F/S 373	830
H/S 214	2359	H/S 377	195

NOTES:

- 2329 Z - BRIDGE REPORTS 2 KT CURRENT
SETTING US TOWARD 21° T.
- SONO. RECEIVER GAIN CONSTANT THROUGHOUT

SONOBUOY LOG SHEET

CFUISE NO. RC25-10

SONOBUOY NO. 32

PROFILER ~~SHEET~~ NO. C

DATE 21 AUG 84

POSITION: LAT. 41° 52.2' N LONG. 50° 16.269' W

SONOBUOY CHAN 14

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SS-457A

TIME ON 1015Z

OFF 1225Z

PIT LOG 1609.8

OFF 1622.5

DISTANCE TRAVELED 12.7 mi

DEPTH 3964 m

SHIPS SPEED 5.7 kts.

SEA STATE 2

SEA SURFACE TEMP. 76° f

ON	GAIN	FILTER
AC	_____	05-70 HZ. START
AX	_____	05-30 HZ. 1109Z
BX	_____	05-40 HZ @ 1156Z
AZ	_____	05-35 HZ @ 1202Z
_____	_____	_____
_____	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0-10 Sec. @ Start, 6 SEC DELAY 1109Z,

REMARKS:

Data Logger: MCS

Tape #	Time	Tape #	File
F/S 214	1015Z	F/S 396	32
215	1225Z		
H/S 400	1225	H/S 400	421
			421

Launched starboard side - amidships (very little wind). Good signal → some noise in the water column may be a result of air leaking from gun #4.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10-NB-13SONOBUOY NO. 33APROFILER ~~SHEET~~ NO. CDATE 21 AUG 1984POSITION: LAT. 44 55.768N LONG. 50 23.959WSONOBUOY CHAN 20 (164.875 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ57ATIME ON 1425OFF 1430PIT LOG 1632.3OFF 1632.8DISTANCE TRAVELED 2.8 nm.DEPTH 3477SHIPS SPEED 5.0SEA STATE 2SEA SURFACE TEMP. 76° F

ON	GAIN	FILTER
A1	_____	<u>5-70Hz @ start</u>
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? ✓ - 10 sec @ startREMARKS: DIED! — NDG,

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

SONOBUOY DIED — NDG,Data LoggerMCSTape # TimeTape # File

F/S 215 1425 F/S 404 782

L/S 215 1430 L/S — —

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 33 BPROFILER ~~SHEET~~ NO. CDATE 21 Aug 84POSITION: LAT. 41° 58.9' N LONG. 50° 21.2' WSONOBUOY CHAN 8 (167.5 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 1435OFF 1440PIT LOG 1638.25OFF —DISTANCE TRAVELED —DEPTH 3501SHIPS SPEED 5.0SEA STATE 3SEA SURFACE TEMP. 76° F

ON	GAIN	FILTER
A1 <u>C</u>	_____	<u>5-70 Hz @ start</u>
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0-10 Sec. @ start(4 AIRGUNS)
X466 in 3

REMARKS:

SONOBUOY CAUGHT IN
STREAMER (NDG).

Data Logger		MCS	
Tape #	Time	Tape #	File
F/S	215 1435	F/S	404 814
L/S	215 1440	L/S	

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 33PROFILER ~~SHEET~~ NO. CDATE 21 AUG, 84POSITION: LAT. 41° 58.4' N LONG. 50° 18.8' WSONOBUOY CHAN 12 (170.5 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57A (Bag)TIME ON 1457OFF 1700PIT LOG 1635.05OFF 1645.25DISTANCE TRAVELED 10.2DEPTH 3549SHIPS SPEED 5.0SEA STATE 3SEA SURFACE TEMP. 76°FLaunch to stbd. - wind from stbd. @ ~15 kts
~~and~~ bridge expects set to port (down on SB).

ON	GAIN	FILTER
A1 <u>C</u>		<u>5-70 @ START</u>
A2	<u>gain increase</u>	<u>5-30 @ 1559</u>
B1	<u>gain increase</u>	<u>5-20 @ 1634</u>
B2		

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0-10 Sec. @ Start; 5-10 s. @ 1545 Z;

REMARKS:

Data Logger		MCS		FILE
TAPE #	TIME	TAPE #		
F/S 215	1457	F/S 405	878	
L/S 215	1700	L/S 409	248	

→ GAIN ON SONO. RECEIVER CONSTANT THROUGHOUT
 → 1632 - 2 SHOTS LOST (RCVR. KNOB BUMPED OFF CHANNEL).

SONOBUOY LOG SHEET

CRUISE NO. RC25-10, line NB-14

SONOBUOY NO. 34

PROFILER ~~NO. 1000~~ NO. C

DATE 22 August, 1984

POSITION: LAT. 41° 55.196' N LONG. 48° 47.363' W

SONOBUOY CHAN 7

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SSQ 57A (BAG)

TIME ON 0330Z

OFF 0600Z

PIT LOG 1686.0

OFF 1696.4

DISTANCE TRAVELED 10.4 nmi

DEPTH 3,297 M

SHIPS SPEED 4.2 KTS

SEA STATE 4

SEA SURFACE TEMP. 70° f

ON	GAIN	FILTER
X C	_____	<u>05-70 Hz @ launch</u>
X	_____	<u>05-30 Hz @ 4382</u>
X	_____	_____
X	_____	_____

OFF	GAIN	FILTER
X 1	_____	_____
X 2	_____	_____
X 3	_____	_____
X 4	_____	_____

DELAY USED? 0 Delay at start.
6 SEC DELAY @ 4382

Port side forward launch. Good signal.

REMARKS:

Final set = 096°
" drift = 1.2 Kts.

	Data Logger	MCS
	Tape #	Time
F/S	216	0330Z
F/S	427	140
4/S	216	0600Z
4/S	432	591

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 35PROFILER SHEET NO. C/DATE 22 AugustPOSITION: LAT. 41°25.55'N LONG. 48°09.28'WSONOBUOY CHAN 23HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57ATIME ON 1135ZOFF 1400ZPIT LOG 1720.7OFF 1732.3DISTANCE TRAVELED 11.6 nmi.DEPTH 3684 m.SHIPS SPEED 4.9SEA STATE 4SEA SURFACE TEMP. 80°F

ON	GAIN	FILTER
A1	_____	<u>05-70Hz @ launch</u>
A2	_____	<u>05-30 Hz @ 1240Z</u>
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec. @ launch, 6 sec delay @ 1240ZREMARKS: Port side amidships. First recorded shot 1136Z (3 shots missed).

Data Logger MCS
 F/S = 1136Z / 216 Reel 442 / S.P. 600
 488 / S.P. 33
 L/S = 1400Z / 217

Good signal.

Set / Drift
 Initial = 092° / 1.4 Kts
 Final = 083° / 1.3 Kts.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 36PROFILER ~~SHEET~~ NO. CDATE 22 AUG. 1984POSITION: LAT. 41°00.95'N LONG. 47°36.60'WSONOBUOY CHAN 6 (166.00 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57A (BAG)TIME ON 1832 Z OFF 2110 Z
~~1764.7~~PIT LOG 1753.45 OFF 1764.7DISTANCE TRAVELED 11.25DEPTH 3471SHIPS SPEED 4.4 Thru waterSEA STATE 4SEA SURFACE TEMP. 79°FLAUNCH SONO. TO PORT - WIND 10-15 KTS FROM
STBD. AFT QUARTER

ON	GAIN	FILTER
ATC		5-70 Hz @ Start
AT		5-30 Hz @ 1945
BT		5-20 Hz @ 2001
BZ		

OFF	GAIN	FILTER
AT	~18 dB	
AT		
BT		
BZ		

DELAY USED? 0 delay at start; 5 sec delay @ 1955

REMARKS:

Data Logger: MCS:

Tape # Time Tape # File

F/S 217 1832 F/S 459 815

4/S 217 2110 4/S 463 280

NOTES

3 AIRGUNS @ START.
4 " @ 1837START: DRIFT 0.8
SET OBS. 1
HDG. 145.41941 - increase speed to 96 RPM - Streamer kiting (up to 15').
Current shifted about 1915.2055 - Gain on sono. recur. increased - constant until this time.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 37APREFILER ~~SHEET~~ NO. CDATE 22 Aug 84 (235)POSITION: LAT. 40°46.2'N LONG. 47°16.6'WSONOBUOY CHAN 2 (163.00 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 2241OFF 2241PIT LOG 1771.8OFF 1771.8DISTANCE TRAVELED 0DEPTH 3488SHIPS SPEED 4.9SEA STATE 4SEA SURFACE TEMP. 78°F

<u>ON</u>	<u>GAIN</u>	<u>FILTER</u>
-----------	-------------	---------------

A1	_____	_____
----	-------	-------

A2	_____	_____
----	-------	-------

B1	_____	_____
----	-------	-------

B2	_____	_____
----	-------	-------

DELAY USED? _____

REMARKS:

<u>OFF</u>	<u>GAIN</u>	<u>FILTER</u>
------------	-------------	---------------

A1	_____	_____
----	-------	-------

A2	_____	_____
----	-------	-------

B1	_____	_____
----	-------	-------

B2	_____	_____
----	-------	-------

NO SIGNAL - NOG

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 37PROFILER ~~SHEET~~ NO. C
-23DATE 22 AUG 84 (235)+(236) Julian DayPOSITION: LAT. 40°45.48'N LONG. 47°15.52'WSONOBUOY CHAN 28(170.875)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 41BTIME ON 2253ZOFF 0131ZPIT LOG 1772.9
~~2253~~OFF 1785.8DISTANCE TRAVELED 12.9DEPTH 3490SHIPS SPEED 5.1 KTSSEA STATE 4SEA SURFACE TEMP. 78° F

ON	GAIN	FILTER	OFF	GAIN	FILTER
ATC	_____	5-70 H ₃ @ Start	AT	_____	_____
AZ	_____	5-30 H ₃ @ 2340 Z	AZ	_____	_____
B1	_____	_____	B1	_____	_____
B2	_____	_____	B2	_____	_____

DELAY USED? 0 sec. @ start; 6 sec delay @ 2358;

RE MARKS:

Data Logger

MCS

TAPE # TIME

TAPE # FILE

F/S 218 2253Z F/S 466 591

4/S 218 0131Z 4/S 472 62

-MCS REEL 466, FILE 591

-Intermittent noise caused by some critter banging against Sonobuoy case, or by loose metal on case.

-AT END, SPEED → WATER = 5.0, DRIFT = 0.9, HDG. 135,
SET 094

SONOBUOY LOG SHEET

CRUISE NO. RC-25-10, line NB-15SONOBUOY NO. 38PROFILER ~~84000~~ NO. CDATE 23 AugustPOSITION: LAT. 40° 59.62' N LONG. 46° 54.95' WSONOBUOY CHAN 1HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57ATIME ON 1030ZOFF 1300ZPIT LOG 1830.3OFF 1842.1DISTANCE TRAVELED 11.8 nmiDEPTH 4405 mSHIPS SPEED 4.7 kts.SEA STATE 3SEA SURFACE TEMP. 80°F

ON	GAIN	FILTER
A1 C	_____	<u>05-70 Hz @ launch</u>
A2	_____	<u>05-30 Hz @ 1131Z</u>
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec. @ launch, 6.0 sec. @ 1131Z

Good signal. Very quiet.

REMARKS:

DATA LOGGER:			MCS	
F/S	TAPE #	TIME	TAPE #	FILE
F/S	218	1030Z	F/S	488 679
4/S	219	1300Z	4/S	493 130

START	END	
4.7 kts.	↓	= SPEED
031°	088°	= HDG.
0.4 kts (same)		= DRIFT
088°		= SET

Rev. gain < 50%
 Profiler gain @ 15db until
 1220Z, then 20db.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 39APROFILER ~~SHEET~~ NO. CDATE 23 Aug. 1984POSITION: LAT. 41° 19.4' N LONG. 46° 26.4' WSONOBUOY CHAN 9 (168.25 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 1457OFF 1458PIT LOG 1850.9OFF 1851.0

DISTANCE TRAVELED _____

DEPTH 4510SHIPS SPEED 4.5SEA STATE 4SEA SURFACE TEMP. 81°

ON	GAIN	FILTER
ATC	_____	<u>S-70 Hz</u>
AZ	_____	_____
BT	_____	_____
BZ	_____	_____

OFF	GAIN	FILTER
ATC	_____	_____
AZ	_____	_____
BT	_____	_____
BZ	_____	_____

DELAY USED? 0 Sec. at StartREMARKS: 10 SEC. SWEEP

DATA LOGGER		MCS	
TAPE#	TIME	TAPE#	FILE
F/S 219	1457	F/S 496	481
4S 119	1458	4S -	-

SPEED
DRIFT
HDG.
SET,

START END

NDG. HYDROPHONE DID NOT
DEPLOY.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 39PROFILER ~~SHEET~~ NO. CDATE 23 AUG 84POSITION: LAT. 41° 19.798' N LONG. 46° 26.164' WSONOBUOY CHAN 12 (170.50 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL S3Q57A (BAG)TIME ON 1502OFF 1749PIT LOG 1851.35OFF 1864.05DISTANCE TRAVELED 12.7DEPTH 4515 mSHIPS SPEED 4.5 kt.SEA STATE 4SEA SURFACE TEMP. 81°

LAUNCH TO STBD., WIND 10 KTS FROM 30° OFF PORT BOW

ON	GAIN	FILTER
A1 C	_____	5-70 Hz start
A2	_____	5-30 Hz @ 1623
B1	_____	5-20 Hz @ 1630
B2	_____	_____

OFF	GAIN	FILTER
A1 C	FULL GAIN ON PDR + 12 dB Amp.	
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec. @ start; 5 sec. @ 1557Z; 7 sec. @ 1736Z.REMARKS: 10 SEC. SWEEP, 4 x 466 in³ AIRGUNS

DATA LOGGER		MCS		START	END
TAPE #	TIME	TAPE #	FILE		
F/S 219	1502	F/S 496	498	4.5	4.7 SPEED
				1.0	0.7 DRIFT
				010	010 HDG
4/S 219	1749	4/S 501	999	082	074 SET

1625Z - SHIP PASSING ABOUT
10 MI. TO STERN. NOISE
ON SONO. 1645Z
MOST NOISE GONE,

SONOBUOY LOG SHEET

CRUISE NO. RC25-10 (LINE NB-15)SONOBUOY NO. 40PROFILER ~~SHEET~~ NO. CDATE ²⁴23-Aug-1984POSITION: LAT. 41° 46.049' N LONG. 46° 11.719' WSONOBUOY CHAN 8 (167.50 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 2028 ZOFF 0019 Z 24 Aug,PIT LOG 1875.5OFF 1891.95DISTANCE TRAVELED 16.45DEPTH 4618SHIPS SPEED 4.2SEA STATE 4SEA SURFACE TEMP. 80°

LAUNCH TO STBD., WIND 8 KTS 70°-80° OFF PORT Bow.

ON	GAIN	FILTER
A+C	_____	S-70 H ₃ Start
A+Z	_____	S-30 H ₃ @ 2200 Z
B+C	_____	_____
B+Z	_____	_____

OFF	GAIN	FILTER
A+C	_____	_____
A+Z	_____	_____
B+C	_____	_____
B+Z	_____	_____

DELAY USED? 0 SEC. AT START; 3 SEC. @ 2106 Z; 7 SEC @ 2208 ZREMARKS: 4 x 466 in³ AIRGUNS; 10 SEC. SWEEP- CONSTANT GAIN ON SONOB.
RECEIVER

DATA LOGGER		MCS		START	END	
TAPE#	TIME	TAPE#	FILE			
F/S	220 2028	506	475	4.0	4.0	SPEED
				1.1	1.1	DRIFT
				032.5	032	HDG.
L/S	220 0019 Z	513	158	043.9	043.9	SET

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 41PROFILER ~~SHEET~~ NO. CDATE 24 AUG 84POSITION: LAT. 42° 17.75' N LONG. 45° 54.30' WSONOBUOY CHAN 17HYDROPHONE DEPTH 60'SONOBUOY MODEL SSA57A (bag antenna)TIME ON 0330 ZOFF 0630 ZPIT LOG 1907.2OFF 1921.1DISTANCE TRAVELED 13.9 nmDEPTH 4671 MSHIPS SPEED 4.4 ktsSEA STATE 4SEA SURFACE TEMP. 78°F

OI	GAIN	FILTER
A1 C		05-70 Hz @ launch
A2		05-30 Hz @ 0436 Z
B1		
B2		

OFF	GAIN	FILTER
AT		
A2		
B1		
B2		

DELAY USED? 0 SEC. AT START
5 s delay @ 0436

Thrown ~~starboard~~ starboard side, forward. Good signal.

REMARKS:

DATA LOGGER MCS

TAPE # TIME TAPE # FILE

F/S ~~221~~ 0330 Z F/S 518 700
 4/S 221 0630 Z 4/S 525 227

START END

SPEED 4.4 kts. 4.7 kts.
 DRIFT 0.5 kt. 0.5 kts.
 HDG, 014.8° 013.3°
 SET. 017.0° 000.8°

2

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 42PROFILER ~~SHEET~~ NO. CDATE August 24, 1984POSITION: LAT. 42°46.48'N LONG. 45°46.86'WSONOBUOY CHAN 11HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57A (BAG)TIME ON 0910ZOFF 1230ZPIT LOG 1933.0OFF 1947.1DISTANCE TRAVELED 14.1 nmiDEPTH 4706m.SHIPS SPEED 4.3 kts.SEA STATE 3SEA SURFACE TEMP. 80°F

ON	GAIN	FILTER
A1	_____	<u>05-70Hz @ launch</u> <u>05-10Hz - 1010Z</u>
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec. @ launch - starboard side, forward. Profiler gain 12db. Rear gain @ slightly less than 50%
5 SEC DELAY 1010Z, 8 sec delay @ 1053Z

REMARKS:

Data Logger # _____
F/s : 221 MCS
U/s : 222 Tape Shot
529 7%
535 30%

Set / Drift
Start: 359.5°/0.7Kts.
End: Same

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 43PROFILER ~~SHEET~~ NO. CDATE 24 Aug '84POSITION: LAT. 43°19.34'N LONG. 45°41.53'WSONOBUOY CHAN 24 (167.875 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 37ATIME ON 2118OFF 2400PIT LOG 1989.6OFF 2003.55DISTANCE TRAVELED 13.95DEPTH 4688SHIPS SPEED 5.1SEA STATE 2SEA SURFACE TEMP. 76°LAUNCH TO PORT; WIND 20° OFF STB. BOW
AT 17-18 KTS (RELATIVE).

ON	GAIN	FILTER
A. C		S-70 Hz @ START
A2 C		S-30 Hz @ 2228 Z
B1		S-40 Hz @ 2312 Z
B2		S-20 Hz @ 2340 Z

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0 SEC @ START; 5 sec. delay @ 2207 Z; 7 sec delay @ 2316 Z,

REMARKS:

DATA LOGGER		MCS	
TAPE #	TIME	TAPE #	FILE
F/S 222	2118	F/S 551	892
L/S 223	2400	L/S 556	379

START	END	
4.9	5.0	SPEED
0.1	0.1	DRIFT
272.4	273.1	H.D.G.
215.9	215.9	SET

* CONSTANT GAIN ON SONO,
RECEIVER THROUGHOUT.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SC JOBUOY NO. 44PROFILER ~~SSQ 57A~~ NO. CDATE 25 AUG 84POSITION: LAT. 43°25.80'N LONG. 46°15.49'WSONOBUOY CHAN 19HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 0245ZOFF 0500ZPIT LOG 2018.0OFF 2030.1DISTANCE TRAVELED 12.1 nmiDEPTH 4599m.SHIPS SPEED 5.4 ktsSEA STATE 2SEA SURFACE TEMP. 78°F

ON	GAIN	FILTER
A1 C		05-70 HZ - START 05-30 HZ - 0351Z
A2 C		
B1 C		
B2 C		

OFF	GAIN	FILTER
A1 C		
A2		
B1		
B2		

DELAY USED? 0 SEC. AT START
5 SEC AT 0330Z

Thrown starboard side - amidships.

REMARKS: 0 SEC AT 0441Z (ERROR)

DATA LOGGER		MCS	
TAPE #	TIME	TAPE #	FILE
F/S 223	0245Z	F/S 561	870
L/S 223	0500Z	L/S 565	261

START	END
5.4 kts	
1.1 kts.	
268°	
026.8°	

SPEED 5.3 KTS
DRIFT 1.3
HDG. 268°
SET 42.5

⇒ CONSTANT GAIN ON SONO. RCVR,
UNLESS OTHERWISE NOTED.⇒ 12db initial gain to
profiler

Note: Buoy probably stopped recording around 0450-0455Z

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. SB #45PROFILER ~~SHEET~~ NO. C/DATE 25 AUG 84POSITION: LAT. 43°28.37'N LONG. 46°38.85'WSONOBUOY CHAN 31HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ-57A (PAG)TIME ON 0635ZOFF 0915ZPIT LOG 2039.1OFF 2055.1DISTANCE TRAVELED 16.0 nmiDEPTH 423/mSHIPS SPEED 5.5 ktsSEA STATE 2SEA SURFACE TEMP. 78°F

ON	GAIN	FILTER
A1	_____	05-70 HZ AT START 05-30 HZ AT 0744Z
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

 DELAY USED? 0.0 AT START
6.0 AT 0722Z

Thrown starboard side - amidships.

REMARKS:

DATA LOGGER
TAPEON: 223
OFF: 224

MCS	
TAPE	SHOT
ON: 568	548
OFF: 573	027

SetDrift
 Start: 060.4° 1.0 kt
 End: 0115.5° 0.5 kt

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 46PROFILER SHEET NO. C/DATE 25 AugustPOSITION: LAT. 43° 37.729 LONG. 47° 26.737SONOBUOY CHAN 24HYDROPHONE DEPTH 610'SONOBUOY MODEL ANSSQ-57A (bag)TIME ON ¹⁰13~~00~~zOFF 1615zPIT LOG 2074.5OFF 2088.7DISTANCE TRAVELED 14.2DEPTH 3952m.SHIPS SPEED 4.7SEA STATE 2SEA SURFACE TEMP. 72°F

ON	GAIN	FILTER
A1	_____	<u>05-70 Hz @ launch</u>
A2	_____	<u>05-30 Hz @ 1418</u>
B1	_____	<u>05-20 Hz @ 1547</u>
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec. @ launch, 1403z = 5 sec. delay; 1544 = 7 sec. delay.

REMARKS:

Data LoggerMCS
Tape/s.P.SetDriftStart: 224580 734330.8°
@ 14300.5 kts
1.1 ktsEnd: 224585 2901506z - AIRGUNS 1+4
OFF - HIGH PRESS,
AIR LEAK.1532z - 4 GUNS AGAIN.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 47PROFILER ~~SHEET~~ NO. CDATE ⁻²⁶ 25 AUG 84POSITION: LAT. 43°46.576'N LONG. 48°23.708'WSONOBUOY CHAN 30 (172.375MH₃)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 2204OFF 0029Z 26 AUG.PIT LOG 2121.2OFF 2134.5DISTANCE TRAVELED 13.3DEPTH 3273SHIPS SPEED 5.7-5.3SEA STATE 3SEA SURFACE TEMP. 72°(RELATIVE TO SHIP)
LAUNCH TO STBD, WIND 15-20 KNOTS DIRECTLY
OFF PORT BEAM

ON	GAIN	FILTER
A1C		S-70 Hz START
A2	INCREASED @ →	S-30 Hz AT 2311Z
B1	INCREASED @ →	S-20 Hz AT 2334Z
B2		

OFF	GAIN	FILTER
A1	12+dB increase at two filter changes	
A2		
B1		
B2		

DELAY USED? 0 SEC. AT START; 7 SEC. DELAY @ 2306Z;

REMARKS:

DATA LOGGER		MCS		START	END
TAPE #	TIME	TAPE #	FILE		
F/S	225	2204	F/S 545	338	5.7 5.3-SPEED
					0.6 0.2-DRIFT
					283 282-HDG,
					047 283-SET
U/S	225	0029Z	U/S 600	771	

- LML DATA ON DATA LOGGER - 17 SEC
RECORDING,- 3 AIRGUNS UNTIL 2338 WHEN
4TH 466 in³ AIRGUN CAME ON
LINE

- CONSTANT GAIN ON SONO. REVR.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 48PROFILER ~~SHEET~~ NO. CDATE 26 AUG 84POSITION: LAT. 43° 24.866' N LONG. 48° 39.765' WSONOBUOY CHAN 27HYDROPHONE DEPTH 60'SONOBUOY MODEL SJR 57A - (BAG)TIME ON 1030ZOFF 1330ZPIT LOG 2185.7OFF 2200.5DISTANCE TRAVELED 14.8 nmiDEPTH 2315MSHIPS SPEED 4.7 KTSSEA STATE 3SEA SURFACE TEMP. 70°F

ON	GAIN	FILTER
A1	_____	05-70 Hz AT START
A2	_____	05-30 Hz @ 1130Z
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 SEC. AT START, 6.0 SEC. @ 1130Z

3 Guns (#1-#3) from 1200-1240 Z

REMARKS:

DATA LOGGER		MCS		START	END	
TAPE #	TIME	TAPE #	FILE			
F/S 225	1030Z	F/S 618	573	4.7 Kts.		SPEED
				0.4 Kts		DRIFT
L/S 226		L/S 624	109	126°		HOG
				96°		SET

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 49PROFILER ~~SHEET~~ NO. CDATE 26 AUGUST '84POSITION: LAT. 43° 07.6' N LONG. 47° 57.4' WSONOBUOY CHAN 10 (169.00 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 1711 ZOFF 1938 ZPIT LOG 2219.45OFF 2231.8DISTANCE TRAVELED 12.35DEPTH 3322 mSHIPS SPEED 5.1SEA STATE 3SEA SURFACE TEMP. 74°Launch → Stbd., wind 8 kts 5-10° off port stern
(relative to ship)

ON	GAIN	FILTER
A1 C		S-70 Start
A2	Gain increase-	S-30 @ 1819
B1	Gain increase-	S-20 @ 1917
B2		

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0 SEC. @ START; 6 SEC @ 1815Z;

REMARKS:

DATA LOGGER			MCS			START	END	
	TAPE#	TIME		TAPE#	TIME			
F/S	226	1711 Z	F/S	631	1706h 1711Z	5.1	5.0	SPEED
U/S	226	1938	U/S	636	208	0.3	0.2	DRIFT
						124°	122°	H.DG.
						042.6°	340°	SET

- 4x 466 in³ AIRGUNS.
 - CONSTANT GAIN ON SONO.
 REVR. THROUGHOUT.
 - 1840 Z - MUCH NOISE OF UNKNOWN
 ORIGIN APPEARING.
 - 1853 Z - CK T BRIDGE - SHIP
 3 MI OFF PORT 1/4
 SST, 73° @ END (1938Z)

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 50PROFILER ~~SHEET~~ NO. CDATE 27 ~~25~~ AUGUST '84POSITION: LAT. 42°46.02'N LONG. 47°13.56'WSONOBUOY CHAN B1 (173.125 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 0122ZOFF 0430ZPIT LOG 2259.35OFF 2274.6DISTANCE TRAVELED 15.25 nmiDEPTH 3868 m (SEABEAM)SHIPS SPEED 4.8 kts.SEA STATE 4SEA SURFACE TEMP. 77°F

ON	GAIN	FILTER
A1C	_____	S-70 @ START
A2	_____	5-30 HZ @ 0230 Z
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

 DELAY USED? 0 SEC. AT START;
6 SEC DELAY 0228Z

REMARKS:

DATA LOGGER		MCS	
TAPE #	TIME	TAPE #	FILE
F/S 227	0122Z	F/S 646	243
4/S		4/S 653	804

START END

4.8

SPEED

0.8

DRIFT

106

HDG

225

SET

 - 4 AIRGUNS (466 IN³); GAIN ON SONO. RCVR. CONSTANT
 THROUGHOUT

 NOTE: HYDROPHONE APPEARS TO HAVE DROPPED
 A FEW FEET BETWEEN SHOTS 16 & 17.

 NOTE: Possible submarine passage
 @ 0318Z

EXCELLENT Buoy

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 51PROFILER SHEET NO. C/DATE 27 August 1984POSITION: LAT. 42° 36.597' N LONG. 46° 41.559' WSONOBUOY CHAN 26HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57ATIME ON 0700zOFF 0850zPIT LOG 2288.3OFF 2298.4DISTANCE TRAVELED 10.1DEPTH 4325 m.SHIPS SPEED 5.5 KTSSEA STATE 4SEA SURFACE TEMP. 78°F

ON	GAIN	FILTER
A1	_____	<u>05-70Hz @ start</u>
A2	_____	<u>05-30Hz @ 0815z</u>
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec @ launch, 5 sec. @ 0745

REMARKS:

Data logger MCS
F/s: 227 Top S.P.
4/s: 228 657 253
661 583
Off @ 0850z because of traffic

Set Drift
Start: 282.7° 0.5 Kts.
289.1° 0.5 Kts.

3' SONOBUOY REC.

N.B.: 3 Guns from 1127-1140Z

SONOBUOY LOG SHEET

CRUISE NO. RC25-10

SONOBUOY NO. 52

PROFILER ~~XXXX~~ NO. C/

DATE 27 Aug 84

POSITION: LAT. 42° 26.94' N LONG. 46° 30.322' W

SONOBUOY CHAN 22

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SS457A (bag)

TIME ON 1045Z

OFF 1345Z

PIT LOG 2308.8

OFF 2324.7

DISTANCE TRAVELED 15.9 nmi.

DEPTH 4642 Meters.

SHIPS SPEED 5.4 kts.

SEA STATE 4

SEA SURFACE TEMP. 76° F

ON	GAIN	FILTER
A1	_____	<u>05-70 Hz @ launch</u>
A2	_____	<u>05-30 Hz 1158Z</u>
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec. @ start
5.0 SEC AT 1135Z

REMARKS:

Data Logger
F/s = 228-1045Z

MCS
Tape File
664 929
669 469

H/s = 228-1345Z

Start: Set Drift
289.1° 0.5 kts.
End: 327.5° 1.1 kts.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10, line NB-21SONOBUOY NO. 53PROFILER SHEET NO. C/DATE 28 August, 1984POSITION: LAT. 41° 50.372' N LONG. 46° 14.350' WSONOBUOY CHAN 28HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57A

0405Z

TIME ON OFF 0700ZPIT LOG 2402.8OFF 2417.0DISTANCE TRAVELED 14.2 nm.DEPTH 4613 MSHIPS SPEED 4.9 KTS.SEA STATE 3SEA SURFACE TEMP. 80°F

ON	GAIN	FILTER
A1	_____	<u>05-70 Hz @ launch</u>
A:	_____	<u>05-30 Hz @ 0518Z</u>
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DI LAY USED? 0 sec. @ launch
5 SEC DELAY → 0500ZREMARKS: Thrown port-side.Good signal.Intermittent noise either biological or in the buoy.

Data Logger MCS

F/S	Tape	S.P.
<u>0405Z-229</u>	<u>ON 696</u>	<u>042</u>
<u>0700Z-229</u>	<u>OFF 701</u>	<u>566</u>

Set
009.3°Drift
0.9 kts.015.0°1.3 kts.

35°
290°

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10, line NB-21

SONOBUOY NO. 54

PROFILER SHEET NO. C/

DATE 28 August, 1984

POSITION: LAT. 42° 03.984' N LONG. 46° 41.510' W

SONOBUOY CHAN 25

HYDROPHONE DEPTH 60'

SONOBUOY MODEL ANSSQ-57A

TIME ON 0845Z

OFF 1130Z

PIT LOG 2425.9

OFF 2440.1

DISTANCE TRAVELED 15.2 nmi

DEPTH 4543 M

SHIPS SPEED 5.1 Kts.

SEA STATE 2

SEA SURFACE TEMP. 74°F

ON	GAIN	FILTER
A1	_____	<u>05-70Hz @ launch</u>
A2	_____	<u>05-30 Hz - 1003 Z</u>
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec. @ launch, 5.0 sec. @ 0938Z

REMARKS: PROFILER REC. "B." Thrown port side forward.
Good signal.

≈ 50% @ launch
≈ 60% @ ≈ 1040Z

Logger
F/S: 229

H/S: 230

MCS
Tape/File#
704/886

709/377

set 015.4 Drift 1.3 Kts

7490 0.8 Kts

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 55PROFILER SHEET NO. C/DATE 28 August, 1984POSITION: LAT. 42°29.88'N LONG. 47°41.80'WSONOBUOY CHAN 3 (163.75)HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57ATIME ON 1834OFF 2157PIT LOG 2472.15OFF 2485.05DISTANCE TRAVELED 12.9DEPTH 3810SHIPS SPEED 3.8-3.9 Thru waterSEA STATE 1SEA SURFACE TEMP. 78°F

ON	GAIN	FILTER
ATC	_____	<u>05-70 Hz @ launch</u>
A2	<u>Increase →</u>	<u>05-30 Hz @ 2002 Z</u>
BT	<u>Increase →</u>	<u>05-20 Hz @ 2101 Z</u>
B-	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 sec. @ launch; 6 sec. @ 1957Z

GAIN ON SONO. RCVR. CONSTANT THROUGHOUT.

REMARKS:

DATA LOGGER		MCS	
TAPE #	TIME	TAPE #	FILE
F/S 230	1834	F/S 721	652
H/S 231	2157	H/S 727	257

	START	END
SPEED	3.9	3.9
DRIFT	1.0	0.9
HOG	304.4	305.3
SET	285.7	310.0

1836- Bridge informs us that a ship will pass 2 mi off our bow ~~200~~!

2145- Data logger tape changed late - unknown # of shots missed.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 56PROFILER ~~MODEL~~ NO. CDATE 29 Aug. 1984POSITION: LAT. 42°47.98'N LONG. 48°19.58'WSONOBUOY CHAN 15 (172.75 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57A (BAG ANTENNA)TIME ON 0128ZOFF 0430ZPIT LOG 2500.5OFF 2516.4DISTANCE TRAVELED ~~15.9~~ 15.9 nmiDEPTH 3207mSHIPS SPEED 5.1SEA STATE CALM (0)SEA SURFACE TEMP. 72°F

ON	GAIN	FILTER
ATC	_____	<u>5-70 Hz @ START</u>
AZ	_____	<u>5-30 Hz @ 0240Z</u>
BT	_____	_____
BZ	_____	_____

OFF	GAIN	FILTER
AT	_____	_____
AZ	_____	_____
BT	_____	_____
BZ	_____	_____

DELAY USED? 0 SEC. AT START; 6.0 sec. @ 0230Z

REMARKS:

DATA LOGGER		MCS	
TAPE#	TIME	TAPE#	FILE
F/S 231	0128Z	F/S 733	893
4/S 231	0430Z	4/S 739	438

	START	END
SPEED	5.1	5.1 5.1 Kts.
DRIPT	0.8	0.7 Kts.
H DEI.	289.9	289.9 290°
SET	334.0	351.5°

NOTES: - GAIN ON SONO. ROVR. CONSTANT.

SONOBUOY LOG SHEET

CR JISE NO. RC 25-10SONOBUOY NO. 57PROFILER ~~SHEET~~ NO. CDATE 29 Aug 84POSITION: LAT. 42°41.298'N LONG. 49°15.849'WSONOBUOY CHAN 30 (172.375 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57A (Bay)TIME ON 2034OFF 2257PIT LOG 2593.5OFF 2604.4DISTANCE TRAVELED 10.9 mi.DEPTH 2218 mSHIPS SPEED 4.7SEA STATE 3SEA SURFACE TEMP. 68°F

LAUNCH TO PORT; WIND 20 KTS, 30°-35° OFF STBD. BOW (RELATIVE)

ON	GAIN	FILTER
AT C	<u>Gain</u>	<u>5-70 Hz AT START</u>
AZ	<u>increase @</u> →	<u>5-30 Hz AT 2148Z</u>
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
AT	_____	_____
AZ	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 SEC. AT START; 6 SEC. @ 2140Z;

REMARKS:

DATA LOGGER		MCS		FILE
TAPE #	TIME	TAPE #	TAPE	
F/S 232	2034	F/S 767		318
H/S 232	2257	H/S 772		749

START	END	
4.6	4.5	SPEED
0.1	0.1	DRIFT
176	174	HEADING
154	154	SET

- GAIN ON SONG RCVR. CONSTANT.
- 2250 Z - MUCH NOISE APPEARS ON SONOBUOY
- 2257 Z SONO B. ENDED - PURE NOISE.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10, line NB-23SONOBUOY NO. 58PROFILER ~~XXXX~~ NO. CDATE 30 August, 1984POSITION: LAT. 42°19.839'N LONG. 49°00.485'WSONOBUOY CHAN 21HYDROPHONE DEPTH 60'SONOBUOY MODEL SSR 57A (bag)TIME ON 0215ZOFF 0515ZPIT LOG 2627.0OFF 2636.2DISTANCE TRAVELED 150.2 nmiDEPTH 3,052 m.SHIPS SPEED 5.2 Kts.SEA STATE WET 2SEA SURFACE TEMP. 69°5

ON	GAIN	FILTER	OFF	GAIN	FILTER
ATC	_____	<u>5-70 Hz AT START</u>	AT	_____	_____
A2C	_____	<u>5-30 Hz @ 0330Z</u>	A2	_____	_____
B1C	_____	_____	B1	_____	_____
B2C	_____	_____	B2	_____	_____

DELAY USED? 0 SEC. @ START, 6 sec @ 0311Z.REMARKS: Thrown starboard side. Good signal—excellent throughout.

DATA LOGGER		MCS		START END	
TAPE #	TIME	TAPE #	FILE	SPEED	
F/S 0215Z	232	F/S 777	- 343	5.0 Kts.	5.1 Kts.
4/S 0515Z	233	4/S 783	- 881	DRIFT 0.1 Kts.	0.2 Kts.
				Hdg. 123.3°	same
				SET. 314.9°	218.8°

SONOBUOY LOG SHEET

CRUISE NO. Rc 25-10, Line NB-23SONOBUOY NO. 59PROFILER ~~SECT~~ NO. c/DATE 30 August, 1984POSITION: LAT. 42° 03.044' N LONG. 48° 23.354' WSONOBUOY CHAN 24HYDROPHONE DEPTH 60'SC NOBUOY MODEL ANSSQ-57A (bag)TIME ON 08¹⁵00ZOFF 1115ZPIT LOG 2650.4OFF 2663.3DISTANCE TRAVELED 12.9 nmiDEPTH 3515 M start
3774 M endSHIPS SPEED 4.3 KTSSEA STATE 2SEA SURFACE TEMP. 70°F

ON	GAIN	FILTER	OFF	GAIN	FILTER
A1		05-70 Hz	X1		
A2		05-30 Hz	X2		
B1			X1		
B2			X2		

DELAY USED? 0.0 sec @ launch
6.0 sec @ 0920ZREMARKS: Thrown starboard side.

	Data Logger	MCS	S.P.
F/S:	0815Z #233	Tape	
		788	410
4/S:	1115Z #233	794	950

Set	Drift
89.3°	1.0 Kts.
137.0°	1.2 Kts.

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10SONOBUOY NO. 60PROFILER ~~SUPERT~~ NO. CDATE 30 Aug. 1984POSITION: LAT. 41°37.4' N LONG. 47°31.4' WSONOBUOY CHAN 5 (165.25 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57A - (Bag)TIME ON 1629OFF 1954PIT LOG 2685.6OFF 2701.1DISTANCE TRAVELED 15.5 MI.DEPTH 4120 MSHIPS SPEED 4.6SEA STATE 3SEA SURFACE TEMP. 76°FLAUNCH TO STBD; WIND SKTS, 45° OFF PORT STERN
RELATIVE TO SHIP.

ON	GAIN	FILTER
<u>A1 C</u>	_____	<u>5-70 Hz START</u>
<u>A2</u>	_____	<u>5-30 Hz @ 1744 Z</u>
<u>B1</u>	_____	_____
<u>B2</u>	_____	_____

OFF	GAIN	FILTER
<u>A1</u>	_____	_____
<u>A2</u>	_____	_____
<u>B1</u>	_____	_____
<u>B2</u>	_____	_____

DELAY USED? 0 delay @ START; 5 SEC DELAY @ 1727, 7 SEC DELAY @ 1910 Z.

REMARKS:

- GAIN ON SONO. RCVR,
CONSTANT THROUGHOUT.

DATA LOG

TAPE	TIME
<u>234</u>	<u>1629</u>
<u>234</u>	<u>1954</u>

MC S	TAPE	SHOT
ON	<u>803</u>	<u>895</u>
OFF	<u>809</u>	<u>504</u>

START	END
<u>SPEED - 4.6</u>	<u>4.3</u>
<u>DRIFT - 1.3</u>	<u>1.3</u>
<u>HOG - 128</u>	<u>128</u>
<u>SET - 122</u>	<u>080</u>

SONOBUOY LOG SHEET

CRUISE NO. 25-10SONOBUOY NO. 61APROFILER ~~SHEET~~ NO. CDATE Aug 31 1954POSITION: LAT. 41° 53.293 LONG. 46° 58.984WSONOBUOY CHAN 28HYDROPHONE DEPTH 60'SONOBUOY MODEL SSR 57ATIME ON 0224ZOFF 0229ZPIT LOG 2OFF 2732.7

DISTANCE TRAVELED _____

DEPTH 4374SHIPS SPEED 5.9 KTSSEA STATE 3SEA SURFACE TEMP. 75°

ON	GAIN	FILTER
<u>A1</u>	_____	<u>5-70 HZ AT START</u>
<u>A2</u>	_____	_____
<u>B1</u>	_____	_____
<u>B2</u>	_____	_____

OFF	GAIN	FILTER
<u>A1</u>	_____	_____
<u>A2</u>	_____	_____
<u>B1</u>	_____	_____
<u>B2</u>	_____	_____

DELAY USED? 0 SEC. @ STARTREMARKS: R Caught in streamer

DATA LOGGERS MCS	
TAPE#	TIME
<u>F/S 235</u>	<u>F/S 821</u>
<u>4/S</u>	<u>4/S 821</u>

START	END
<u>5.7</u>	<u>SPEED</u>
<u>1.6</u>	<u>DRIFT</u>
<u>289.1</u>	<u>HOG.</u>
<u>61.3</u>	<u>SET.</u>

SONOBUOY LOG SHEET

CRUISE NO. 25-10

SONOBUOY NO. 61

PROFILER SHEET NO. 2

DATE Aug 31 1954 JD 244

POSITION: LAT. 41° 54' 17" N LONG. 47° 00.2' W

SONOBUOY CHAN 4

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SSQ57A

TIME ON 0245Z

OFF 0530
0430Z

PIT LOG 2733.9

OFF 1749.5

DISTANCE TRAVELED _____

DEPTH 4370 fms

SHIPS SPEED 5.6 KTS

SEA STATE 3

SEA SURFACE TEMP. 75°

ON	GAIN	FILTER
		5-70 Hz AT START
A1	<u>0</u>	5-40 Hz @ 0348
A2		5-20 Hz @ 0445
B1	<u>0-12</u>	@ 1355
B2	<u>0-14</u>	@ 1407Z

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0.5 @ Start

0.5 @ 0336Z

REMARKS: Thrown on starboard side - Moko? at 1355

MCS		Data Logger		Start	End	Speed
Tape#	Time	Tape#	Time			
Start 821	738	235	0245Z	5.8 KTS	5.6	
End 826	233	235	0530	1.6	.8	drift
				287.4°	289	Heading
				61.3	67.4	set

SONOBUOY LOG SHEET

CRUISE NO. R025-10

SONOBUOY NO. 62A

PROFILER ~~SUBJECT~~ NO. C

DATE 31 AUG '84 SD 244

POSITION: LAT. 42 06.313 LONG. 47 29.320

SONOBUOY CHAN 19

HYDROPHONE DEPTH 60 ft.

SONOBUOY MODEL SSQ 57A

TIME ON 06730

OFF 0736

PIT LOG 2760.6

OFF 2761.2

DISTANCE TRAVELED _____

DEPTH 4013

SHIPS SPEED 5.3

SEA STATE 2

SEA SURFACE TEMP. 73°

ON	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0.0 AT START

REMARKS:

DATA	LOG	TIME
F/S	830	570
L/S	830	586

MCS
TAPE SHORT
ON
OFF

Off @ 0736z - probably caught on streamer

START END

SPEED -
DRIFT -
HOG -
SET -

SONOBUOY LOG SHEET

CRUISE NO. RC25-10

SONOBUOY NO. 62

PROFILER ~~SHEET~~ NO. C

DATE 31 AUG 84

POSITION: LAT. 42 06.964'N LONG. 47 30.152'W

SONOBUOY CHAN 30

HYDROPHONE DEPTH 60'

SONOBUOY MODEL 57A

TIME ON 0740Z

OFF 1010Z

PIT LOG 2761.6

OFF 2774.5

DISTANCE TRAVELED 12.9 nmi

DEPTH 3986 M

SHIPS SPEED 5.3 KTS

SEA STATE 2

SEA SURFACE TEMP. 73°F

ON	GAIN	FILTER
A1	0-14 @ 0950	05-70 Hz AT START
A2	0-16 20956	05-40 Hz AT 0942
B1	0-18 20958	05-30 Hz @ 0953Z
B2	AUX 4 IS INVERTED WITH AUX 1 ON DFS 4	
amplified @ 10db		

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0 SEC AT START
6.5 SEC AT 0840Z

REMARKS: Now recording SB on Aux Channel 4 DFS with 10db gain improvement
NB - first arrivals are clipped purposely at short ranges - 0824

MCS
TAPE
ON: 830 601
OFF: 834 049

DATA LOGGER
TAPE
ON 236
OFF 236

	START	END
SPEED	5.4 Kts	5.2 Kts.
DRIFT	0.3 Kt.	0.5 Kt.
HQ	313°	315°
SET	082.0°	183°

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 63PROFILER SHEET NO. C/DATE 31 August, 1984POSITION: LAT. 42° 27.6' N LONG. 47° 54, 43' WSONOBUOY CHAN 26HYDROPHONE DEPTH 60'SONOBUOY MODEL ANSSQ-57ATIME ON 1315ZOFF 1630ZPIT LOG 2790.7OFF 2808.7DISTANCE TRAVELED 98.0 kmDEPTH 3204 MSHIPS SPEED 5.2 kts.SEA STATE 2SEA SURFACE TEMP. 76°F

ON	GAIN	FILTER
A1	<u>12 @ launch</u>	<u>05-70 Hz @ launch</u>
A	<u>16 @ 1510</u>	<u>05-40 Hz @ 1500Z</u>
	<u>20 @ 1530</u>	<u>05-30 Hz @ 1515Z</u>
B1	<u>25 @ 1538</u>	<u>05-20 Hz @ 1530Z</u>
B2		

DELAY USED? 0 sec. @ launch 6.5 sec delay @ 1415REMARKS: Port side-forward

	Logger	MCS	Set
F/s :	<u>236</u>	<u>Tape</u>	<u>Start 2650</u>
		<u>File</u>	<u>End 285</u>
		<u>840 546</u>	
		<u>845 183</u>	
4s =	<u>237</u>		

OFF

GAIN	FILTER
<u>10db to aux channel 4 on DF5</u>	
<u>no gain to aux channel 1</u>	

both channels filtered at same settings
as recorded on data logger (1435 Both aux 1 & 2 through 0-63 Hz
anti-alias filterChannel 4 through 10db gain
setting ampDrift1.0kt.
.9ktSpeed5.1

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SC NOBUOY NO. 64PROFILE SHEET NO. C/ 10 Sec. SweepDATE 31 Aug '84 244POSITION: LAT. 42°47.770 N LONG. 47 47.741 WSONOBUOY CHAN 31HYDROPHONE DEPTH 60 ftSONOBUOY MODEL AN 55Q 57ATIME ON ~~1655~~ 1703 OFF 1932PIT LOG 2811.45 OFF 2824.0DISTANCE TRAVELED 12.35DEPTH ~~3630~~ 3654SHIPS SPEED 5.1SEA STATE 2SEA SURFACE TEMP. 76°Wind speed
350° 3 kts (both relative to ship)

ON	GAIN	FILTER
A1C	<u>12</u>	<u>0-70 Hz @ launch</u>
A2		<u>5-50 Hz @ 1810Z</u>
B1		<u>5-30 Hz @ 1819Z</u>
B2		

OFF	GAIN	FILTER
A1	<u>12db + 75%</u>	<u>on Edo recorder</u>
A2		
B1		
B2		

DELAY USED? 6.5 Sec. first 9 shots (mistake), then 0 delay;REMARKS: 6.0 s delay → @ 1805Z
Change data logger to 0-250 Hz A/A Filter
Thrown Port side

MCS	Tape	File #	Data Logger
Start			
End	<u>846</u>	<u>260</u>	<u>237</u>
	<u>851</u>	<u>728</u>	<u>237</u>

NOTES: 1857 - SHIP NOISE FROM PASSING
FREIGHTER BECOMING
APPARENT

	Set	Drift	Speed	Hdg.
Start	<u>285.3</u>	<u>.9</u>	<u>5.1</u>	<u>020°</u>
End	<u>335</u>	<u>0.7</u>	<u>4.7</u>	<u>020</u>

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 65PROFILER ~~SHEET~~ NO. CDATE 31 AUG 1984POSITION: LAT. 43°15.3'N LONG. 47°38.8'WSONOBUOY CHAN 29 (171.625 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57A (BAG)TIME ON 2221OFF 0115PIT LOG 2837.6OFF 2852.2

DISTANCE TRAVELED _____

DEPTH 3571SHIPS SPEED 5.0SEA STATE 1SEA SURFACE TEMP. 74°FLAUNCH TO PORT; WIND 45° OFF STBD. Bow @
4-5 KTS RELATIVE TO SHIP,

ON	GAIN	FILTER
<u>A1C</u>	<u>AMP 12</u> <u>EP0 15%</u>	<u>5-70 @ START</u>
<u>A2</u>	<u>12</u> <u>50%</u>	<u>5-30 @ 2337Z</u>
<u>B1</u>	<u>12</u> <u>90%</u>	<u>0055Z</u>
<u>B2</u>		

OFF	GAIN	FILTER
<u>A1</u>		
<u>A2</u>		
<u>B1</u>		
<u>B2</u>		

DELAY USED? 0 SEC. @ START; 6 SEC. @ 2323Z

REMARKS:

ITA LOGGER TAPE #: 238MCS TAPE #: 856, FILE 238 - F/SMCS TAPE #: 861, FILE 759 - L/S

	START	END
SPEED	<u>4.9</u>	<u>5.1</u>
DRIFT	<u>0.7</u>	<u>0.3</u>
HDR.	<u>002°</u>	<u>002°</u>
SET	<u>335°</u>	<u>037°</u>

SONO. RCVR. GAIN CONSTANT
THROUGHOUT,

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 66PROFILER ~~NO.~~ NO. C/DATE 1 SEPT. 84POSITION: LAT. 44° 03.34'N LONG. 47° 26.24'WSONOBUOY CHAN 8HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 41BTIME ON 0815ZOFF 1115ZPIT LOG 2886.1OFF 2901.6

DISTANCE TRAVELED _____

DEPTH 4021MSHIPS SPEED 5.0 KTSSEA STATE 1SEA SURFACE TEMP. 68°

ON	GAIN	FILTER
<u>A1C</u>	<u>AMP EDO</u>	<u>5-70 HZ. AT START</u>
		<u>5-40 HZ 0941Z</u>
		<u>5-30 HZ 1015Z</u>
<u>A2</u>		
<u>B1</u>		
<u>B2</u>		

OFF	GAIN	FILTER
<u>X1</u>		
<u>X2</u>		
<u>X1</u>		
<u>X2</u>		

DELAY USED? 0 SEC. @ STARTREMARKS: Thrown port side.DATA LOGGER TAPE #: 238/239MCS TAPE #: 873, FILE 020 - F/SMCS TAPE #: 878, FILE 560 - LS

START	END	
<u>5.0</u>	<u>5.4</u>	<u>SPEED</u>
<u>0.1kt</u>	<u>1.0</u>	<u>DRIFT</u>
<u>015</u>	<u>021°</u>	<u>HOG.</u>
<u>043.2°</u>	<u>289</u>	<u>SET,</u>

Profiler gain = 12db (initially)
 DFS aux 4 gain = 10db

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 67PROFILER ~~MODEL~~ NO. CDATE 1 SEPT. '84POSITION: LAT. 44° 21.531' N LONG. 47° 22.050' WSONOBUOY CHAN 25HYDROPHONE DEPTH 60'SONOBUOY MODEL ^{SSQ} 57ATIME ON 1145zOFF 1430zPIT LOG 2904.2OFF 2918.8DISTANCE TRAVELED 14.6DEPTH 3897 MSHIPS SPEED 5 ktsSEA STATE 1SEA SURFACE TEMP. 68°F

ON	GAIN	FILTER
A1	_____	05-70 AT START
A2	_____	05-30 Hz @ 1300z
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 SEC AT STARTREMARKS: 5 sec. @ 1230z

Port side launch.

DATA LOG

TAPE

239

F/S MCS TAPE: # 874 FILE: 649

L/S MCS TAPE # FILE

884

150

START END

5.0 5.4 SPEED

1.0 1.0 DRIFT

25.6 26.0 HDG

289.0 247° SET

PROFILER GAIN - 12 DB

DFS AUX4 GAIN - 10 DB

SONOBUOY LOG SHEET

CRUISE NO. RC25-10, LINE NB-28SONOBUOY NO. 68APROFILER ~~ANALOG~~ NO. C/DATE 2 SEP 84POSITION: LAT. 44°53.447'N LONG. 48°04.782'WSONOBUOY CHAN 23HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 1200ZOFF 1205ZPIT LOG 3026.3OFF DISTANCE TRAVELED DEPTH 3047 MSHIPS SPEED 5.3 Kts.SEA STATE 4SEA SURFACE TEMP. 66°F

ON	GAIN	FILTER
AT C	<u>AMP EDO</u> <u>12db</u>	<u>S-70 AT START</u> <u>Hz</u>
AZ	<u> </u>	<u> </u>
BT	<u> </u>	<u> </u>
BZ	<u> </u>	<u> </u>

OFF	GAIN	FILTER
AT	<u>Aux 4 →</u>	<u>10db</u>
AZ	<u> </u>	<u> </u>
BT	<u> </u>	<u> </u>
BZ	<u> </u>	<u> </u>

DELAY USED? 0 SEC. @ START, STARBOARD SIDE LAUNCH

REMARKS: WEATHER: WINDS INCREASING FROM SW (~20 Kts). INTERMITTENT RAIN (T.S. "CAESAR")

DATA LOGGER TAPE # 240MCS TAPE # 923, FILE 013 - F/SMCS TAPE # 923, FILE 028 - L/S

	START	END
SPEED	<u>5.3</u>	<u>S</u>
DRIFT	<u>0.9 Kts.</u>	<u>A</u>
HDG	<u>236.6</u>	<u>M</u>
SET	<u>012°</u>	<u>E</u>

CAUGHT IN STREAMER

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10, Line NB-28SONOBUOY NO. 68PROFILER SHEET NO. C/DATE 2 Sept. 1984POSITION: LAT. 44° 53.124' N LONG. 48° 05.788' W (DR) SHIPS SPEED 5.3 ktsSONOBUOY CHAN 25HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ-57A

ON	GAIN	FILTER
A1	<u>ED0</u> <u>12 db</u>	<u>05-70 Hz @ launch</u> <u>05-70 Hz 13142</u>
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0.0 sec. @ launch - 6.0 sec - 13052REMARKS: Port side. Good signal. ~ 1.5s noise on records, could be seabeam spike - or bad buoyF/s : Data Logger
#240Targ MCS File
#923 #044L/s : #240

#928 #553

TIME ON 1210Z+ PIT LOG 3027.2DISTANCE TRAVELED 14.2DEPTH 3035 mSEA STATE 4SEA SURFACE TEMP. 66°F

Detuned

OFF 1500ZOFF 3041.4DATA LOGGER
SAMPLING OFF@
1507Z

OFF	GAIN	FILTER
A1	<u>Aux 4 = 10db.</u>	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

every 11 sec.;

Set

012°

Drift

0.9 Kts.

NOTE: Sonobuoy detuned @ 1500Z but data logger recording continued to check source of 11s noise - noise gone, ∴ coming from sonobuoy. Data logger 17K recording off @

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 69PROFILER ~~SHEET~~ NO. CDATE 2-Sept 1984POSITION: LAT. 44° 15.7' N LONG. 48° 28.1' WSONOBUOY CHAN 26 (169.375 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSR 57A (BAG)TIME ON 2147OFF 2353PIT LOG 3076.3OFF 3087.3DISTANCE TRAVELED 11.0DEPTH 3135SHIPS SPEED 5.3'SEA STATE 4SEA SURFACE TEMP. 69°LAUNCH TO PORT; WIND 50 KTS STBD. BOW @ 20 KTS,
RELATIVE TO SHIP.

ON	GAIN	FILTER
A1 <u>C</u>	<u>AMP</u> <u>EQ</u> <u>12db</u> <u>15%</u>	<u>5-70 Hz @ START</u>
<u>A2</u>	<u>12db</u> <u>50%</u>	<u>5-30 Hz @ 2249</u>
<u>B1</u>	<u>65%</u> <u>95%</u>	<u>@ 2319</u> <u>@ 2330</u>
<u>B2</u>		

OFF	GAIN	FILTER
<u>A1</u>		
<u>A2</u>		
<u>B1</u>		
<u>B2</u>		

DELAY USED? 0 SEC. @ START; 6 sec. @ 2247Z;

REMARKS:

DATA LOGGER TAPE #: 241MCS TAPE # 940, FILE 778 - F/SMCS TAPE # 944, FILE 156 - F/S

START	END	
<u>5.3</u>	<u>5.4</u>	<u>SPEED</u>
<u>0.1</u>	<u>0.1</u>	<u>DRIFT</u>
<u>173</u>	<u>172</u>	<u>HDR.</u>
<u>275.7</u>	<u>276</u>	<u>SET</u>

- CONSTANT GAIN ON
SONOBUOY RCVR.

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 70PROFILER ~~SHEET~~ NO. CDATE 3 SEPT. 1984POSITION: LAT. 44°00.724' LONG. 48°23.712'SONOBUOY CHAN 1 (162.25 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SS0 41BTIME ON 0037 ZOFF 0345ZPIT LOG 3091.5OFF 3108.7

DISTANCE TRAVELED _____

DEPTH 3296SHIPS SPEED 5.1 KtsSEA STATE 4SEA SURFACE TEMP. 68°LAUNCH TO PORT; WIND 15-17 Kts 70°-80° OFF
STBD. BOU. RELATIVE TO SHIP

ON	GAIN	FILTER
A1C	AMP <u>12db</u> EDO <u>20%</u>	<u>5-70 Hz @ START</u>
A2	<u>12db</u> <u>40%</u>	<u>5-30 Hz D 0149 Z</u>
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 SEC. AT START; 6 SEC. DELAY @ 0135 Z;

REMARKS:

DATA LOGGERTAPE # 241 - 242 (changed @ 0236 Z)MCS TAPE # 945, FILE 288 F/SMCS TAPE # 951, FILE 848 4/S

START	END	
<u>5.0</u>	<u>5.8</u>	SPEED
<u>0.3</u>	<u>.8</u>	DRIFT
<u>180°</u>	<u>170°</u>	HDG.
<u>000°</u>	<u>000°</u>	

SONOBUOY LOG SHEET

CRUISE NO. RC 25-10

SONOBUOY NO. 71

PROFILER ~~SHEET~~ NO. C/

DATE 3 SEPTEMBER '84

POSITION: LAT. 42° 59.652N LONG. 48° 30.547W

SONOBUOY CHAN 31 = 173.125

HYDROPHONE DEPTH 60 ft.

SONOBUOY MODEL SSQ 57A

TIME ON 1520

OFF 1750

PIT LOG 3170.6

OFF 3185.1

DISTANCE TRAVELED 14.5

DEPTH 2761

SHIPS SPEED 5.7

SEA STATE 3

SEA SURFACE TEMP. 70° F

WIND 15 KTS 45° OFF STBD. BOW, RELATIVE TO SHIP,

ON	GAIN	FILTER
ATC	<u>AMP</u> <u>EDC</u> <u>12</u> <u>15%</u>	<u>05-70 @ start</u>
AZ	<u>12</u> <u>60%</u>	<u>05-30 @ 1614Z</u>
B1	<u>14</u> <u>95%</u>	<u>@ 1710Z</u>
B2		

OFF	GAIN	FILTER
A1		
A2		
B1		
B2		

DELAY USED? 0 SEC. @ START; 6 SEC @ 1609Z

REMARKS: Thrown off port side; constant gain on Sono. rcvr.

MCS	TAPE	FILE #
FSHOT	972	920 @ 1520Z
LS	976	372

DATA LOGGER
TAPE # 242

Start	Set	Drift	Wind Speed	Dir
	1.1	33°	18	55°
End	0.4	0.4 KTS	5.0	199° HDG,
	042°		KTS	

SONOBUOY LOG SHEET

CRUISE NO. RC25-10

SONOBUOY NO. 72

PROFILER ~~SHEET~~ NO. C

DATE 3 SEPT. 1984

POSITION: LAT. 42°34.7' N LONG. 48°38.4' W

SONOBUOY CHAN 24 (167.875 MHz)

HYDROPHONE DEPTH 60'

SONOBUOY MODEL SSQ 57A

TIME ON 2013 OFF 2336

PIT LOG 3198.25 OFF 3211.4

DISTANCE TRAVELED 13.15

DEPTH 3121 M (uncorrected)

SHIPS SPEED 5.7

SEA STATE 4

SEA SURFACE TEMP. 70°F

LAUNCH TO PORT

<u>ON.</u>	<u>GAIN</u>	<u>FILTER</u>
A1 C	$\frac{AMP}{12} \frac{F20}{15\%}$	$5-70 H_z @ START$
A2	$12 \quad 60\%$	$5-30 H_z @ 2132 z$
B1	$12 \quad 100\%$	$@ 2225 z$
B2		

<u>OFF</u>	<u>GAIN</u>	<u>FILTER</u>
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 SEC. @ START; 6 SEC. @ 21112; 7 SEC. @ 2228

REMARKS:

DATA LOGGER TAPE # 243
F/S MCS TAPE # 980, FILE 797
L/S MCS TAPE # 984, FILE 228

	<u>START</u>	<u>END</u>
SPEED	5.7	5.1
DRAFT	0.6	0.6
HDBG.	194°	195°
SET	059°	059°

WIND DIR., SPD. (RELATIVE TO SHIP)
START 70° OFF 18 KTS.
STBD. Bow
END 80° OFF 14-15 KTS.
STBD. Bow

2157, 2206 - NOISE OF UNKNOWN ORIGIN
2227 - 2229 - " " "

SONO. RCVR. GAIN CONSTANT THROUGHOUT RECORD.
2158 - SONO. RCVR. 215800 & 215800 - RETAINED 2 MILLS MISSING

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 73PROFILER ~~SHEET~~ NO. CDATE 247 - 3 SEPT 84POSITION: LAT. 42° 18.536' LONG. 48° 42.725'SONOBUOY CHAN 27 (170.125 MHz)HYDROPHONE DEPTH 60'SONOBUOY MODEL SSQ 57ATIME ON 2327
3215.9OFF 0201Z 4 SEPT '84PIT LOG 3215.9OFF 3230.9DISTANCE TRAVELED 15.0DEPTH 3227SHIPS SPEED 5.5SEA STATE 3SEA SURFACE TEMP. 70°LAUNCH TO PORT - WIND 12 KTS 85° OFF STBD. STERN @ START.
WIND 8 KTS 5° OFF " " @ END.

ON	GAIN AMP \overline{E} DO	FILTER
A1 C	<u>12db 12%</u>	<u>5-70 Hz @ START</u>
A2	<u>12db 20%</u>	<u>@ 2348Z</u>
B1	<u>12db 40%</u>	<u>5-30 Hz @ 0034Z</u>
B2	<u>100%</u>	<u>0115Z</u>

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 SEC. @ START; 6 SEC. DELAY @ 0022Z;

REMARKS:

DATA LOGGER TAPE #
F/S MCS TAPE # 986, FILE 379
L/S MCS TAPE # 990, FILE 842

	START	END
SPEED	5.5	6.0
DRIFT	0.6	1.1
HQ. SET	194	193
	059	005

- CONSTANT GAIN ON SONO. REVR. THROUGHOUT.

- 2350- Gun #2 out for repair (air hose broken)

- APPARENT PULL-UP @ 2340-2350 DUE TO LOW AIR PRESSURE.

- 0040 BAD INTERMITTENT NOISE

SONOBUOY LOG SHEET

CRUISE NO. RL 25-10

SONOBUOY NO. 174

PROFILER SHEET NO. C.

DATE 4 SEPT. '84 ID=24

POSITION: LAT. 41 41.532 LONG. 48 56.655

SONOBUOY CHAN 25 168.625

HYDROPHONE DEPTH 60'

SONOBUOY MODEL 57A

TIME ON 0657 Z

OFF 0900 Z

PIT LOG 3259.1

OFF 3271.0

DISTANCE TRAVELED _____

DEPTH 3326 M

SHIPS SPEED 5.7

SEA STATE 4

SEA SURFACE TEMP. 74°f

ON	GAIN	FILTER
A1	_____	<u>5-70 Hz @ START</u>
A2	_____	<u>5-40 Hz @ 0748 Z</u>
B1	_____	<u>5-30 Hz @ 0821 Z</u>
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 delay @ start
6.5 @ 0748

REMARKS:

MCS
start TAPE SHOT
1000 730
END 1004 100

DATA LOGGER
SP TAPE
704 1000

JET DRIFT WIND SPEED Dr.
START 042 0.9 5.0 kts.
END 063 1.0 5.0 kts

SONOBUOY LOG SHEET

CRUISE NO. RC25-10SONOBUOY NO. 74 APROFILER SHEET NO. 2DATE 9 SEPTEMBER 84 JD = 24POSITION: LAT. 41° 42.54' N LONG. 48° 55.54' WSONOBUOY CHAN 23 = 167125HYDROPHONE DEPTH 60 ftSONOBUOY MODEL SSC-57ATIME ON 0640 Z OFF 0648PIT LOG 3257.5 OFF 3258.5

DISTANCE TRAVELED _____

DEPTH 3327 MSHIPS SPEED 5.5SEA STATE 4SEA SURFACE TEMP. 74°F

ON	GAIN	FILTER
A1	_____	<u>5-70 Hz @ Start</u>
A2	_____	_____
B1	_____	_____
B2	_____	_____

OFF	GAIN	FILTER
A1	_____	_____
A2	_____	_____
B1	_____	_____
B2	_____	_____

DELAY USED? 0 delay @ Start

REMARKS:

MCS
 Start 999 File 679
 End 1000 704

Data Logger
 S.P. 679 TAPE # 244

	Set	Drift	Wind speed	Dir
Start	<u>052</u>	<u>.9</u>	<u>5 knots</u>	<u>180</u>
End				

SB	DATE / LINE	RANGE	QUALITY	MOHO	BSMT TOP	MCS #s	NOTES
1	12 AUG 25 NB-1	11.4	noisy		2.45 @ 0130Z		
2	225 NB-1	11.5	noisy	no	mount @ 0130		some sed refractions, low-A bsmt
3	225 NB-1	12.2	OK	no	21s @ 0630		good sed refractions
4	225 NB-1	12.9	noisy	no	flat	23-?	
* 5	225 NB-1	14.0	Good	maybe	small trough @ 1300		good sed
* 6	225 NB-3	14.9	Good - excell	maybe	nothing signif	34-39	basement refractions strong
7	226 NB-2	6.9	good - some ship noise	no	?	-	short - shelf ~ 100m
8	226 NB-2	7.7	good	no	?		" : "
↓ 9	226- 227 NB-3	19.5	Good	no	MESS dips seaward	88-92	Irreg. bsmt } diapir @ irreg bottom } rise + slope 2300
10	227 NB-3	16.6	Good	?		94-?	lower rise - thick sed
11	227 NB-4	12.9	Good - excell.	maybe	nothing signif	109-113	basement refractions
12	227 NB-4	14.2	OK - good	no	bottom irreg.	121-126	Short - no returns beyond ~ 1130
↓ 13	227-8 NB-4	12.8	OK - good	no	Mess -	133-138	fault ~ 0100Z
14	228 NB-4	4.1	some OK	no	not too bad	140-?	only sed reflections
↓ 15	228 NB-6	12.1	Weak - OK	no	Mess	150-153	basement block - 9-10:30
16	228 NB-6	13.2	noisy - OK	no	irreg. 2.7s	155-159	basement rough } variable sed thickness
17	228 NB-7	12.8	weak - OK	no	fairly flat	174-178	sed. fairly flat
* 18	229 NB-8	14.2	Excellent	maybe	flat	194-199	basmt masking horizon
19	229 NB-8	16.4	Good	maybe	OK bump @ 0300	205-210	bump @ 1730
20	230 NB-8	13.0	Weak	no	rough	221-226	channel 0030-0040
↓ 21	230 NB-8	8.2	Good	no	MESS	229-?	Seamount @ end
22	230 NB-9	13.5	noisy	no	rising	242-246	mount @ 1710
23	230 NB-9	10.95	noisy	no	rising	251-255	fault @ 2100Z
24	231 NB-10	14.0	Good - excell	no	fairly flat	263-268	thin sed.

SB	DATE / LINE	RANGE	QUALITY	MOHO	BSMT TOP	MCS #s	NOTES
↓ 25	231 NB-10	12.9	Weak @ end Good signal but prop noise	no	MESSY	272-276	Scant on basement ridge
26	231 NB-10	11.8		no	flat to ground	281-285	no sed refr. / little refl.
↓ 27	232 NB-10	11.7	Good	no	bottom rising gently rising	307-311	Strong basement / no sed
28	232 NB-11	11.3	Weak - OK	no	in middle	321-325	11:15 some topography
29	232 NB-11	11.6	Good - excellent	no	thin sed	328-331	gently rising basement
30	233 NB-12	11.7	Good	no	messy bsmt	339-344	bsmt high @ 0410Z
★ 31	233 NB-12	9.6	Excellent	no	bsmt	373-377	basement rising strong sed refractors
★ flat bsmt 32	234 NB-12	12.7	Good noisy	no	OB. slightly wavy V. flat	390-400	Weak basement. returns
33	234 NB-13	10.2	Noisy	no	Seamt. @ 1600	405-409	structure @ 1600Z
★ 34	235 NB-14	10.4	Excellent	?	flat	427-432	high velocity layer over bsmt
35	235 NB-14	11.6	Weak Good S/N	maybe	flat	442-448	no sed refrs - thin sed buried waves
↓ 36	235 NB-14	11.25	Good - exell.	no	1945 mess beyond	459-463	
37	235-236 NB-15	12.9	Good - exell.	no	~.6s	466-472	Mound @ 2345 - 0045
↓ 38	236 NB-15	11.8	Good	no	1.25.	488-493	Seamount @ 1200Z w/ <u>moat</u> high velocity sed.
↓ 39	236 NB-15	12.7	ship passed noisy	no	1.0s	496-501	horst 1615-1715
★ 40	236-237 NB-15	16.45	excellent V. strong	no ?		506-513	Good sed
★ 41	237 NB-15	13.9	Good	no	Gentle 	518-525	" multiples
↓ 42	237 NB-15	14.1	noisy - sed good	no		529-535	Messy <u>sed good</u>
43	237 NB-16	13.95	Good - OK Weak - prop noise	no		551-556	Messy
★ 44	238 NB-16	12.1	Good Weak	no	~ flat	561-565	low-vel. sed.
45	238 NB-17	16.0	Good high S/N	maybe no		568-573	Rough ~ .6s numerous mounds
★ 46	238 NB-17	14.2	Excellent!	yes	V. flat	580-585	high velocity sed @ unconf.
47	238-239 NB-17	13.3	OK - Good Weak	no		595-600	up to rise bottom v. rough
★ 48	239 NB-19	14.8	Good some noise	yes ?	gentle 	618-624	high vel. sed

SB	DATE / LINE	RANGE	QUALITY	MOHO	BSMT TOP	MCS #s	NOTES
49	239 NB-19	12.35	noisy	no	flat	631-636	weak basement arrivals
* 50	240 NB-19	15.25	excellent	no yes?		646-653	trough @ 0300 2.5s + after 0400z excellent sed's!
51	240 NB-19	10.1	Excellent			657-661	-messy -
52	240 NB-19?	15.9	good-excell	no		664-669	Messy - blocky bsmt 3 guns in foot
53	241 NB-21	14.2	noisy strong good	no		696-701	0400-0530 - moved
54	241 NB-21	15.2	weak Good	no		704-709	high ✓ sed's over bsmt.
* 55	241 NB-19	12.9	Excellent	no		721-727	Good sed's
56	242 NB-21	15.9	weak	no		733-739	sed thickness increasing into rise high - V. sed's
* 57	242 NB-21?	10.9	Good - ex.	no		767-772	rise
* 58	243 NB-23	15.2	excellent	no	flat	777-783	EXCELLENT
* 59	243 NB-23	12.9	excellent	no		788-794	
* 60	243 NB-23	15.5	excellent	maybe	flat	803-809	EXCELLENT
- mine - 61	244 NB-25	15.6	Good-excell.	maybe		821-826	
changed record 62	244 NB-25	12.9	good sed's weak bsmt	no		830-834	
* 63	244 NB-26	18.0	Good	?	very flat	840-845	diffractions from channel at start high vel. sed's
* 64	244 NB-26	12.35	Excellent	no	v. flat	846-851	ch. in bsmt char @ 1800
* 65	244 NB-26	14.6	excellent	no	v. flat	856-861	weak basement low vel. basement masking
* 66	245 NB-26	15.5	Good weak	no	flat	873-878	
* 67	245 NB-26	14.6	dies out Excellent	no	flat	879-884	
68	246 NB-28	14.2	Noisy Good - OK	no	flat	923-928	intermitt noise
69	246 NB-28	11.0	weak	no	irreg. 2 surface channels	940-944	thick sed's ~ 3.5 s
70	247 NB-28	17.2	Weak	no	flat	945-951	possible high vel. intra bsmt
↓ 71	247 NB-28	14.5	Good - excellent	no	MESS 2205	972-976	- MESS -
72	247 NB-28	13.15	Good - excell.	no		980-984	trough @ 2205
73	247 NB-32	15.0	Excellent Noisy	yes		986-990	rough ~ .5 s
74	248 NB-32	11.9	OK - Good	no		1000-1004	used MCS to jumps interpret noisy

Directory MSA0:[]

GOODFIX.DAT#3	25
BADFIX.DAT#2	9
T193MAG.DAT#2	93
T194MAG.DAT#1	16
T195MAG.DAT#1	30
T196MAG.DAT#1	27
T197MAG.DAT#1	29
T198MAG.DAT#1	29
T199MAG.DAT#2	30
T200MAG.DAT#2	22
T201MAG.DAT#1	23
T202MAG.DAT#1	45
T203MAG.DAT#1	18
T204MAG.DAT#1	27
T206MAG.DAT#1	18
T207MAG.DAT#1	20
T208MAG.DAT#2	22
T209MAG.DAT#1	43
T210MAG.DAT#1	16
T211MAG.DAT#1	18
T212MAG.DAT#1	8
T213MAG.DAT#1	10
T214MAG.DAT#1	45
T215MAG.DAT#1	36
T216MAG.DAT#1	23
T217MAG.DAT#1	22
T218MAG.DAT#1	29
T219MAG.DAT#1	14
T220MAG.DAT#3	1
T221MAG.DAT#1	21
T222MAG.DAT#2	29
T223MAG.DAT#2	20
T224MAG.DAT#2	31
T225MAG.DAT#1	31
T226MAG.DAT#1	25
T227MAG.DAT#1	22
T228MAG.DAT#2	38
T229MAG.DAT#1	21
T230MAG.DAT#1	26
T231MAG.DAT#1	34
T232MAG.DAT#2	34
T233MAG.DAT#2	17
T234MAG.DAT#2	34
T235MAG.DAT#2	8
T236MAG.DAT#2	22
T237MAG.DAT#1	16
T238MAG.DAT#2	26
T239MAG.DAT#1	21
T240MAG.DAT#8	46
T241MAG.DAT#1	26
T242MAG.DAT#3	34
T243MAG.DAT#1	18
T244MAG.DAT#2	53
T245MAG.DAT#1	40

Total of 54 files, 1441 blocks.

245-18:40:40 50754.3
245-18:41:00 50754.0
245-18:41:20 50753.4
245-18:41:40 50753.2
245-18:42:00 50754.4
245-18:42:20 50754.3
245-18:42:40 50754.6
245-18:43:00 50754.9
245-18:43:20 50754.3
245-18:43:40 50755.0
245-18:44:00 50754.8
245-18:44:20 50755.6
245-18:44:40 50755.6
245-18:45:00 50755.1
245-18:45:20 50754.8
245-18:45:40 50756.1
245-18:46:00 50755.7
245-18:46:20 50756.4
245-18:46:40 50756.7
245-18:47:00 50756.3
245-18:47:20 50755.6
245-18:47:40 50756.5
245-18:48:00 50756.2
245-18:48:20 50757.4
245-18:48:40 50756.7
245-18:49:00 50756.7
245-18:49:20 50756.5
245-18:49:40 50756.6
245-18:50:00 50756.6
245-18:50:20 50756.7
245-18:50:40 50755.6
245-18:51:00 50755.6
245-18:51:20 50755.3
245-18:51:40 50755.9
245-18:52:00 50755.9
245-18:52:20 50755.6
245-18:52:40 50754.8
245-18:53:00 50755.2
245-18:53:20 50755.9
245-18:53:40 50755.7
245-18:54:00 50755.5
245-18:54:20 50755.4
245-18:54:40 50755.5
245-18:55:00 50755.3
245-18:55:20 50755.7
245-18:55:40 50754.6
245-18:56:00 50755.2
245-18:56:20 50755.1
245-18:56:40 50755.6
245-18:57:00 50754.7
245-18:57:20 50753.9
245-18:57:40 50754.4
245-18:58:00 50754.0
245-18:58:20 50754.0
245-18:58:40 50754.4
245-18:59:00 50754.0
245-18:59:20 50754.1
245-18:59:40 50754.0
245-19:00:00 50754.4
245-19:00:20 50754.6

221-16:44:00	47	34.123N	52	42.018W	FIX	2D	SLT	21	SLN	34	57	2	29	0.01	320	200	GEOM	NW
221-17:33:36	47	34.130N	52	41.998W	FIX	2D	SLT	30	SLN	22	22	3	27	0.01	061	110	GEOM	NW
221-18:22:00	47	34.130N	52	42.042W	FIX	2D	SLT	21	SLN	21	28	3	27	0.02	270	130	GEOM	NE
221-18:38:48	47	34.103N	52	42.019W	FIX	2D	SLT	21	SLN	20	32	2	34	0.03	150	480	GEOM	SE
221-20:08:24	47	34.119N	52	42.025W	FIX	2D	SLT	20	SLN	46	60	3	33	0.01	347	130	GEOM	NW
221-20:28:00	47	34.105N	52	42.010W	FIX	2D	SLT	14	SLN	29	56	2	37	0.01	145	480	GEOM	SW
221-21:56:24	47	34.130N	52	41.986W	FIX	2D	SLT	79	SLN	67	11	3	16	0.03	032	130	GEOM	NW
221-22:14:48	47	34.149N	52	41.997W	FIX	2D	SLT	60	SLN	40	11	3	23	0.01	338	480	GEOM	SW
222-02:53:12	47	34.116N	52	42.009W	FIX	2D	SLT	10	SLN	11	34	3	32	0.03	193	110	GEOM	SE
222-03:42:00	47	34.124N	52	42.033W	FIX	2D	SLT	10	SLN	18	54	2	27	0.01	295	200	GEOM	SE
222-04:40:00	47	34.113N	52	42.016W	FIX	2D	SLT	10	SLN	16	48	2	34	0.01	135	110	GEOM	SW
222-05:26:24	47	34.109N	52	41.999W	FIX	2D	SLT	21	SLN	16	25	2	20	0.01	106	200	GEOM	SW
222-06:56:48	47	34.121N	52	42.026W	FIX	2D	SLT	16	SLN	22	42	3	34	0.02	303	480	GEOM	NE
222-07:15:12	47	34.118N	52	42.024W	FIX	2D	SLT	14	SLN	40	67	1	37	0.00	153	130	GEOM	SE
222-08:45:12	47	34.119N	52	42.019W	FIX	2D	SLT	15	SLN	20	42	3	36	0.00	083	480	GEOM	NW
222-09:01:12	47	34.126N	52	42.007W	FIX	2D	SLT	18	SLN	15	24	3	27	0.02	051	130	GEOM	SW
222-13:51:36	47	34.927N	52	40.255W	FIX	2D	SLT	85	SLN	56	10	3	23	1.42	056	200	GEOM	NE
222-14:57:36	47	29.892N	52	26.408W	FIX	2D	SLT	31	SLN	36	37	3	28	1.79	154	110	GEOM	NE
222-15:35:36	47	26.488N	52	18.336W	FIX	2D	SLT	20	SLN	42	56	2	34	0.81	263	200	GEOM	NE
222-16:44:00	47	20.177N	52	03.128W	FIX	2D	SLT	22	SLN	30	43	3	34	0.50	261	110	GEOM	NW
222-17:20:48	47	16.912N	51	54.728W	FIX	2D	SLT	32	SLN	30	29	2	31	0.07	316	200	GEOM	NW
222-17:32:48	47	15.805N	51	52.037W	FIX	2D	SLT	86	SLN	102	14	3	18	0.05	212	130	GEOM	NE
222-18:15:36	47	11.852N	51	42.741W	FIX	2D	SLT	35	SLN	30	25	3	32	0.30	233	480	GEOM	SE
222-20:05:12	47	03.027N	51	20.507W	FIX	2D	SLT	25	SLN	79	68	3	38	0.83	358	480	GEOM	SW
222-21:05:36	46	58.380N	51	07.506W	FIX	2D	SLT	60	SLN	52	21	3	24	0.54	088	130	GEOM	NW
223-02:03:36	47	00.717N	50	22.466W	FIX	2D	SLT	54	SLN	36	19	3	26	1.38	013	110	GEOM	SE
223-02:32:48	47	01.137N	50	16.753W	FIX	2D	SLT	40	SLN	31	21	3	25	0.29	356	200	GEOM	SE
223-04:18:24	46	53.410N	49	57.922W	FIX	2D	SLT	20	SLN	47	62	3	29	0.16	322	200	GEOM	SW
223-05:36:48	46	46.480N	49	44.696W	FIX	2D	SLT	89	SLN	65	15	5	24	0.24	060	110	GEOM	SW
223-06:25:12	46	42.562N	49	36.874W	FIX	2D	SLT	28	SLN	34	39	2	24	0.23	071	130	GEOM	SE
223-08:12:00	46	33.547N	49	18.404W	FIX	2D	SLT	31	SLN	43	39	3	29	0.53	023	130	GEOM	SW
223-14:08:00	46	03.451N	48	14.783W	FIX	2D	SLT	53	SLN	44	23	4	26	1.26	062	110	GEOM	NE
223-14:26:48	46	02.101N	48	12.324W	FIX	2D	SLT	38	SLN	35	26	2	29	0.19	202	200	GEOM	NE
223-15:54:24	45	55.251N	48	02.336W	FIX	2D	SLT	19	SLN	55	67	3	35	1.38	234	110	GEOM	NW
223-16:11:36	45	53.833N	48	00.043W	FIX	2D	SLT	17	SLN	39	61	3	30	0.16	121	200	GEOM	NW
223-17:42:00	45	46.725N	47	48.981W	FIX	2D	SLT	221	SLN	146	11	3	23	0.66	231	110	GEOM	NW
223-18:28:00	45	43.627N	47	42.018W	FIX	2D	SLT	27	SLN	43	45	2	28	0.53	085	130	GEOM	NE
223-20:14:48	45	36.700N	47	28.382W	FIX	2D	SLT	25	SLN	27	33	3	32	0.47	177	130	GEOM	NW
223-21:30:00	45	30.319N	47	13.785W	FIX	2D	SLT	92	SLN	65	13	3	25	0.56	027	480	GEOM	SW
224-01:14:24	45	12.112N	46	31.618W	FIX	2D	SLT	85	SLN	50	10	4	24	1.14	352	110	GEOM	SE
224-03:02:48	45	02.519N	46	12.268W	FIX	2D	SLT	9	SLN	25	64	3	35	0.07	188	110	GEOM	SE
224-04:48:48	44	50.282N	45	53.968W	FIX	2D	SLT	64	SLN	58	23	2	23	0.31	152	110	GEOM	SW
224-05:35:12	44	44.576N	45	45.932W	FIX	2D	SLT	37	SLN	29	23	3	28	0.24	341	130	GEOM	SE
224-06:10:24	44	40.182N	45	40.096W	FIX	2D	SLT	26	SLN	29	34	3	33	0.27	280	480	GEOM	NE
224-16:48:00	44	25.130N	44	39.249W	FIX	2D	SLT	31	SLN	24	25	3	27	3.96	127	200	GEOM	NW
224-17:36:48	44	26.624N	44	37.119W	FIX	2D	SLT	55	SLN	40	21	3	28	0.66	319	480	GEOM	SE
225-02:01:12	44	34.040N	45	28.898W	FIX	2D	SLT	52	SLN	36	18	4	23	1.64	179	200	GEOM	SE
225-02:13:12	44	34.439N	45	29.908W	FIX	2D	SLT	34	SLN	33	32	2	23	0.19	084	110	GEOM	SE
225-03:47:12	44	37.835N	45	39.071W	FIX	2D	SLT	20	SLN	65	67	3	30	0.54	034	200	GEOM	SW
225-04:00:00	44	38.323N	45	40.163W	FIX	2D	SLT	31	SLN	50	46	2	21	0.16	086	110	GEOM	SW
225-05:30:48	44	41.396N	45	49.116W	FIX	2D	SLT	118	SLN	83	10	3	20	0.47	132	200	GEOM	SW
225-05:47:36	44	41.971N	45	50.851W	FIX	2D	SLT	41	SLN	40	26	3	29	0.08	279	480	GEOM	NE
225-06:32:48	44	43.161N	45	55.296W	FIX	2D	SLT	21	SLN	49	62	3	34	0.16	138	130	GEOM	SE
225-07:36:00	44	44.536N	46	01.445W	FIX	2D	SLT	20	SLN	53	65	3	38	0.31	182	480	GEOM	NE
225-08:18:48	44	45.273N	46	05.022W	FIX	2D	SLT	45	SLN	41	24	3	25	0.37	137	130	GEOM	SW
225-14:16:00	44	57.823N	46	44.792W	FIX	2D	SLT	33	SLN	35	32	3	30	0.17	029	110	GEOM	NE
225-16:02:24	45	01.777N	46	56.084W	FIX	2D	SLT	20	SLN	30	48	3	33	0.36	031	110	GEOM	NW
225-16:49:12	45	03.141N	47	00.782W	FIX	2D	SLT	108	SLN	75	10	5	22	0.22	205	130	GEOM	NE
225-17:07:12	45	03.712N	47	02.743W	FIX	2D	SLT	88	SLN	53	13	5	26	0.11	267	480	GEOM	SE
225-17:25:12	45	04.257N	47	04.570W	FIX	2D	SLT	99	SLN	58	15	3	25	0.03	236	200	GEOM	NW

222-01:54:48	47	34.144N	52	42.028W	FIX	2D	SLT	58	SLN	37	8	3	20	0.02	257	200	1	GEOM	SE
222-05:08:00	47	34.028N	52	41.998W	FIX	2D	SLT	88	SLN	102	14	3	18	0.05	212	130	1	GEOM	NE

222-01:54:48	47 34.144N	52 42.028W	FIX 2D	N1 SLT 58 SLN 37 8	3 20 0.02 257 200 1	GEOM SE
222-05:08:00	47 34.028N	52 41.896W	FIX 2D	N1 SLT 98 SLN 101 6	3 20 0.11 136 480 1	GEOM NE
222-18:32:24	47 09.980N	51 39.622W	FIX 2D	N1 SLT 191 SLN 125 6	6 20 0.10 217 110 1	GEOM NW
222-19:18:24	47 06.506N	51 30.035W	FIX 2D	N2 SLT 16 SLN 104 74	3 23 0.36 351 130 1	GEOM NE
223-03:51:12	46 55.875N	50 02.756W	FIX 2D	N1 SLT 19 SLN 145 81	4 35 0.26 286 110 1	GEOM SW
223-06:02:24	46 44.459N	49 40.922W	FIX 2D	N1 SLT 95 SLN 69 9	3 19 0.01 150 200 1	GEOM SW
223-16:42:48	45 51.394N	47 56.231W	FIX 2D	N1 SLT 130 SLN 87 7	3 19 0.03 146 130 1	GEOM NE
223-19:42:48	45 38.999N	47 32.754W	FIX 2D	N1 SLT 17 SLN 61 71	3 38 0.36 155 480 1	GEOM SW
225-15:39:12	45 01.008N	46 53.589W	FIX 2D	N1 SLT 17 SLN 129 82	3 32 0.39 046 200 1	GEOM NW
225-17:50:48	45 05.070N	47 07.021W	FIX 2D	N1 SLT 186 SLN 111 7	4 20 0.04 043 110 1	GEOM NW
226-03:11:12	45 23.675N	48 11.714W	FIX 2D	N1 SLT 8 SLN 34 74	3 35 0.46 259 110 1	GEOM SE
226-15:13:36	45 06.559N	49 03.315W	FIX 2D	N1 SLT 19 SLN 87 73	3 35 0.22 257 110 1	GEOM NE
226-21:19:12	44 56.175N	48 28.136W	FIX 2D	N1 SLT 150 SLN 83 9	4 22 0.37 101 130 1	GEOM NW
227-01:28:24	44 45.941N	48 00.025W	FIX 2D	N2 SLT 108 SLN 67 9	3 20 3.85 032 200 1	GEOM SE
228-09:20:24	44 11.039N	44 39.195W	FIX 2D	N1 SLT 273 SLN 165 3	3 14 0.57 254 130 1	GEOM SW
228-17:30:00	44 23.309N	45 38.577W	FIX 2D	N1 SLT 146 SLN 76 9	3 23 0.12 230 200 1	GEOM NW
229-06:46:24	44 12.749N	46 50.517W	FIX 2D	N1 SLT 45 SLN 786 84	5 33 1.45 102 130 1	GEOM SW
229-18:47:12	43 14.847N	47 11.774W	FIX 2D	N1 SLT 23 SLN 332 88	3 35 1.50 068 130 1	GEOM NW
229-19:15:36	43 12.601N	47 14.948W	FIX 2D	N2 SLT 20 SLN 82 72	3 38 0.87 336 480 1	GEOM SW
230-17:17:12	41 52.564N	47 35.262W	FIX 2D	N1 SLT 94 SLN 53 8	3 22 0.04 289 110 1	GEOM NW
230-18:53:12	41 45.242N	47 37.387W	FIX 2D	N1 SLT 23 SLN 211 84	3 38 0.13 237 480 1	GEOM SE
231-00:51:36	41 14.648N	47 50.045W	FIX 2D	N1 SLT 136 SLN 69 8	3 20 3.10 195 110 1	GEOM SE
231-06:54:00	40 55.912N	48 23.011W	FIX 2D	N2 SLT 24 SLN 114 75	3 35 2.57 298 130 1	GEOM SW
231-17:33:12	40 12.356N	49 05.684W	FIX 2D	N1 SLT 130 SLN 59 6	5 20 0.15 120 200 1	GEOM NW
231-18:53:12	40 07.461N	49 10.944W	FIX 2D	N1 SLT 15 SLN 91 79	3 34 0.10 072 130 1	GEOM NW
232-01:01:36	40 05.077N	49 04.818W	FIX 2D	N1 SLT 461 SLN 223 4	5 14 1.41 101 200 1	GEOM SE
232-06:44:00	40 11.486N	48 30.567W	FIX 2D	N1 SLT 15 SLN 76 75	3 38 0.69 295 480 1	GEOM NE
233-02:48:48	40 21.351N	47 34.724W	FIX 2D	N1 SLT 11 SLN 95 84	3 35 0.17 076 110 1	GEOM SE
233-08:46:00	40 38.624N	48 03.872W	FIX 2D	N1 SLT 183 SLN 111 7	3 19 0.16 063 130 1	GEOM SW
233-14:48:24	40 54.818N	48 36.062W	FIX 2D	N1 SLT 25 SLN 166 79	3 35 0.39 191 110 1	GEOM NE
233-15:14:48	40 56.164N	48 38.912W	FIX 2D	N2 SLT 22 SLN 169 83	3 35 0.70 230 200 1	GEOM NW
233-21:20:24	41 17.910N	49 13.374W	FIX 2D	N2 SLT 246 SLN 169 6	3 20 1.27 001 480 1	GEOM SW
234-04:22:24	41 34.785N	49 46.813W	FIX 2D	N1 SLT 137 SLN 77 8	5 19 0.43 254 130 1	GEOM SE
234-16:25:12	41 59.793N	50 05.932W	FIX 2D	N1 SLT 144 SLN 88 8	6 20 0.08 291 130 1	GEOM NE
235-01:06:00	42 00.099N	48 59.532W	FIX 2D	N1 SLT 149 SLN 80 8	5 19 3.37 236 200 1	GEOM SE
235-02:52:24	41 57.621N	48 50.431W	FIX 2D	N2 SLT 31 SLN 98 72	3 13 5.40 248 200 1	GEOM SE
235-08:52:00	41 36.301N	48 22.001W	FIX 2D	N1 SLT 276 SLN 170 5	3 18 0.36 011 130 1	GEOM SW
235-14:57:12	41 12.734N	47 55.440W	FIX 2D	N1 SLT 21 SLN 89 75	4 28 0.24 251 110 1	GEOM NW
236-08:52:00	40 52.530N	46 50.342W	FIX 2D	N1 SLT 123 SLN 62 8	5 23 0.12 056 480 1	GEOM NW
236-12:22:24	41 08.328N	46 34.401W	FIX 2D	N1 SLT 148 SLN 99 7	5 20 2.99 069 110 1	GEOM NE
236-17:06:00	41 29.758N	46 22.475W	FIX 2D	N1 SLT 116 SLN 47 6	5 19 0.24 065 200 1	GEOM NW
237-06:39:12	42 33.615N	45 49.543W	FIX 2D	N1 SLT 16 SLN 64 73	3 38 0.15 023 480 1	GEOM NW
238-02:15:36	43 25.623N	44 11.761W	FIX 2D	N1 SLT 9 SLN 39 75	3 36 0.36 075 110 1	GEOM SE
238-14:17:12	43 40.438N	47 33.941W	FIX 2D	N1 SLT 23 SLN 88 71	3 35 0.94 010 110 1	GEOM NE
238-14:48:00	43 41.608N	47 35.262W	FIX 2D	N1 SLT 20 SLN 224 86	3 26 1.53 080 200 1	GEOM NW
239-18:24:24	43 44.607N	47 58.676W	FIX 2D	N1 SLT 24 SLN 98 75	3 33 0.62 213 130 1	GEOM NW
239-04:07:12	43 53.938N	49 01.788W	FIX 2D	N1 SLT 152 SLN 99 9	4 22 0.35 301 480 1	GEOM NE
239-11:43:36	43 22.106N	48 30.613W	FIX 2D	N1 SLT 910 SLN 613 2	3 10 1.56 068 110 1	GEOM NE
239-20:50:00	42 57.690N	47 36.802W	FIX 2D	N1 SLT 203 SLN 126 6	3 21 1.01 160 480 1	GEOM SW
241-04:44:48	41 52.314N	46 18.184W	FIX 2D	N1 SLT 331 SLN 162 5	4 15 0.14 343 200 1	GEOM SW
241-05:40:48	41 55.356N	46 23.134W	FIX 2D	N1 SLT 13 SLN 52 73	2 34 0.36 061 130 1	GEOM SE
242-02:32:48	42 50.199N	48 27.621W	FIX 2D	N1 SLT 14 SLN 69 75	3 35 0.39 138 110 1	GEOM SW
242-06:34:24	43 00.273N	48 52.320W	FIX 2D	N1 SLT 19 SLN 60 71	2 37 1.02 180 480 1	GEOM NW
242-14:34:00	43 09.895N	49 21.526W	FIX 2D	N1 SLT 16 SLN 82 77	3 35 0.24 243 110 1	GEOM NW
242-20:26:00	42 42.245N	49 15.442W	FIX 2D	N1 SLT 211 SLN 106 6	5 19 0.49 048 130 1	GEOM NW
243-02:28:48	42 19.053N	48 59.648W	FIX 2D	N1 SLT 12 SLN 101 83	3 31 0.36 239 200 1	GEOM SE
243-05:47:12	42 09.955N	48 38.972W	FIX 2D	N1 SLT 14 SLN 86 81	3 35 1.57 075 130 1	GEOM SE
243-14:20:00	41 42.714N	47 46.239W	FIX 2D	N1 SLT 19 SLN 137 79	3 32 0.18 040 200 1	GEOM NE
244-04:24:24	41 58.088N	47 10.468W	FIX 2D	N1 SLT 208 SLN 128 7	6 19 0.33 184 110 1	GEOM SW
244-05:48:12	42 00.055N	47 10.468W	FIX 2D	N1 SLT 21 SLN 84 73	3 38 0.40 192 480 1	GEOM NE ERR R