

O'Hara  
75011vni

# CRUISE LOG

## R/V ASTERIAS

### UNIBOOM SEISMIC

### SW BUZZARDS BAY

### NE RHODE ISLAND SOUND

### VINEYARD SOUND

JUNE 19<sup>TH</sup> - JULY 1, 1975 (#75011)

Oct 17-30, 1975 75OCT (#75024)

ASTR 75-JUN

ASTR 75OCT  
103509  
75024

PROPERTY OF:  
U. S. GEOLOGICAL SURVEY  
OFFICE OF MARINE GEOLOGY  
WOODS HOLE, MASS. 02543  
PHONE (617) 548-8700

U. S. GEOLOGICAL SURVEY  
OFFICE - MARINE GEOLOGY  
WOODS HOLE, MASS. 02543

LORAN - C

NAVIGATION  
CAPE RACE DANA

GMT				TIME ZONE	SHIPS			
DAY	MO	YR	TIME	±	COURSE	SPD		
							37	69
							---	---
20	06	75	1405				37962.0	69860.8
			1415				37962.6	69863.5
			-1430				37962.0	69866.7
			1445				37961.6	69871.2
			X1452				37962.4	69873.7
			1455				37964.1	69873.6
			1500				37969.1	69873.6
			1505				37972.9	69873.1
			X1507				37974.0	69873.1
			1515				37973.6	69870.4
			-1530				37973.9	69865.2
			X1544				37974.1	69860.1
			1550				37978.8	69860.8
			1555				37983.5	69862.1
			X1558				37984.3	69862.7
			1615				37985.8	69868.9
			-1630				37986.4	69873.8
			X1635				37986.2	69875.5
			1643				37993.6	69875.4
			1650				37996.6	69875.1
			X1658				37998.1	69875.2
			1700					
			1715					

9000 RPM

c/c 270 mag.

~~340 mag. 1000 RPM~~

L-C STILL DOWN - NO MASTER

OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO.  
STA

FRIDAY JUNE 20 1340 LEAVE WH DOCK  
R/V ASTERIAS - UNIT 300 M SURVEY  
VINEYARD SOUND - WILL START LINE # 1  
JUST OFF WOODS HOLE - O'HARA - FORRESTEL  
37,962 LOP - LINE # 1  
START LINE # 1

STILL hinc # 1

Also

37974

END LINE # 1  
START hinc # 2 LOP - 37974 Inc. speed to 1000 R.P.M.

End Line # 2, Start hinc # 3 LOP - 37986

Slow Down to Change Paper & Belt  
Recorder ON, speed Back up.

4c End hinc # 3 Start hinc # 4 LOP - 37,998  
Heading ~ 340° MAG LORAN-C Down - Master weak  
or off lock  
STILL MAINTAINING COURSE 340° MAG

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE-RACE	DANA
			1730				.	.
			1738				.	.
			1739 o/c				.	.
			V1749				37992.3	69861.8
			1750				993.5	861.9
			1755				996.0	861.8
			1800				998.9	861.7
			1805				38001.7	69861.7
			1810				005.0	861.8
			1815				008.2	861.8
			<del>1817</del>				010.7	862.5
			-1830				010.1	866.4
			1848				010.1	871.9
			-1900				38010.1	69875.4
			✓1909				010.6	877.8



START NEW DAY  
21 JUNE 1975

O'HARA-JENNINGS

LOUIAN C  
NAVIGATION

GMT				TIME ZONE	SHIPS					
DAY	MO	YR	TIME	±	COURSE	SPD				
21	06	75	0600							
			<del>0834</del>				38	142.1		
			0845		330 MAG			69	836.7	
			<del>0890</del>					142.1	832.5	
								142.0	827.4	
			<del>0912</del>		c/c			142.0	823.1	
			0915					149.1	823.0	
			<del>0926</del>		c/c			154.6	823.2	
			0930					154.9	825.3	
			0945					154.6	831.0	
			<del>x 1000</del>					153.9	837.1	
			1015					154.2	842.6	
			1019				38	154.5	69	844.5
			<del>x 1030</del>					153.9	848.8	
								154.6	853.1	
			1045					154.9	855.0	
			1047							
			<del>x 1100</del>					153.5	860.8	
			<del>x 1130</del>					153.7	872.9	
			1145					153.8	878.9	
			<del>x 1200</del>					154.1	884.8	
			1215					154.0	890.7	
			<del>x 1230</del>					154.0	896.4	
			1245					154.1	902.3	
			<del>x 1300</del>					154.9	908.1	
			1315					154.0	913.5	

OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO.  
STA.

ON BOARD ASTERIAS

L-C ON WH DOCK 37,952.9 -69,855.7

Commence line #6 COP 38,142.0

c/c still on line #6 COP 69,823

End line 6 - start line #7 COP 38,157

continue line 7 190° MAG

AISEAM TO PORT - DUOY "1" WHISTLE

TEXAS TOWER - AISEAM TO STARBOARD

BELT CHANGE

EPC BACK ON

continuing line #7

GMT				TIME ZONE	SHIPS	NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	
21	06	72	1317		o/c		38159.2 69914.1
			✓ 1330		e/c		166.5 914.0
			1345				166.0 908.5
			✗ 1400				165.9 902.9
			1416				165.7 876.4
			✗ 1430				165.9 891.1
			1445				165.8 885.4
			✗ 1500				165.0 879.9
			1515				166.4 874.0
			✗ 1530				166.0 867.1
			1545				165.7 859.7
			✗ 1600				165.8 853.2
			1615				165.9 846.6
			✗ 1630				165.7 840.2
			1645				165.9 834.0
			✗ 1700				166.2 828.0
			1715				166.2 822.7
			✗ 1716:30		d/c		165.9 821.7
			1732				177.7 822.3
			✗ 1733		d/c 165 MAG		178.6 822.0
			1745				178.3 826.8
			✗ 1800				178.4 832.1
			1815				178.1 837.3
			✗ 1830				178.1 842.2
			1845				178.0 847.5
			✗ 1900				178.0 852.7
			2000				
			2000				



2<sup>nd</sup> CUTTYHUNK DOCK  
38,104.8  
69,857.5

OPS					COMMENTS AND OBSERVATIONS		
12 KHZ	3.5 KHZ	CSP	MAG	GRAY		SONO.	STA.
							o/c LOP 69919 con't line 7 ~270° MTR
							End line 7 Commence line # 8 20° 38,166
							1434 Boat along side (beached lady)
							TIME MARKS NIS TURN OFF. - SEA STATE building - this time - Slo chart ADVANCE SLOWED chart rate TOGET 15 min To show full Age
							DLT CHANGE ?
							LOP 69,822 con't line 8
							End line 8 commence line 9 20° 38,178
							SHUT DOWN SYSTEMS - CALL IT A DAY WILL RESUME LINE 9 TOMORROW ON ROUTE TO CUTTYHUNK IS FOR THE NIGHT ARRIVE CUTTYHUNK - SECURE FOR THE NIGHT

START NEW DAY  
22 JUNE 1975

O'HARA - JENNINGS

LOTAN - (

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE MILE	DATA
22	06	75	0500				38104.8	69857.5
					L-C		DOCKSIDE CUTTYHUNK	↑
			0619				38178.1	69850.1
			X0621				178.0	852.7
			0635				178.1	855.7
			0645				178.2	859.4
			X0700				178.0	864.2
			0715				178.3	869.5
			X0730				178.4	875.2
			0746				178.5	881.0
			X0800				177.9	886.5
			0810				178.2	890.3
			0817				177.8	891.4
			X0830				177.8	896.5
			0845				177.7	901.9
			X0900				177.8	907.4
			X0909:15		c/c		177.5	909.2
			X0922:30		c/c		190.2	908.7
			X0930				189.7	906.1
			0945				190.3	900.9
			X1001				189.9	899.8
			1020				189.8	888.3
			X1030				190.2	885.1
			X1045:30		c/c		190.2	880.1
			X1100				200.3	879.6
			1115				211.9	880.0
			X1130				223.2	880.2
			1145				235.1	879.7
			X1200				247.2	879.9



# CAMP RAKE NAVIGATION DAM L-C

GMT				TIME ZONE	SHIPS			
DAY	MO	YR	TIME	±	COURSE	SPD		
22	06	75	1215				38258.5	69880.0
			✓ 1220				262.7	880.1
			✗ 1230				261.8	876.4
			1245				261.9	871.0
			✗ 1300				261.7	865.6
			✓ 1302				261.7	865.1
			1316				247.4	865.3
			✗ 1330				232.6	869.9
			1345				217.1	867.9
			✗ 1400				201.5	865.0
			1415				186.5	865.2
			✗ 1430				171.2	865.0
			1431					
			1433					
			1476				157.1	869.9
			✗ 1500				146.3	869.9
			✓ 1520				131.7	865.1
			1730					

OPS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

COMMENTS AND OBSERVATIONS

continue line 11 W/P 381262.0

come change - end line 11 (southeast end) start line  
12 - long run up Vineyard Sound toward Woods Hole

EPC off Belt change  
back on

Shut down for the day - records busy - weather  
will continue line 12 later  
ARRIVE DOCKSIDE - WOODS HOLE

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MONDAY + TUESDAY JUNE 27<sup>th</sup> + 28<sup>th</sup>  
Stayed ashore - waiting out the weather

NEW DAY  
 WEDNESDAY JUNE 25th, 1975

GMT				TIME ZONE	SHIPS		LORAN-C NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DANA
25	06	75	0600					
			✓0653				38011.8	69877.7
			0655				38013.2	69877.9
			0701				38017.9	69879.4
			0705				38020.5	69879.6
			✓070745		c/c		38022.5	69880.3
			0715				38022.2	69877.5
			✓0730				38022.0	69872.1
			0745				022.0	867.0
			✓0751:40		c/c		022.0	867.9
			0755				38023.9	864.8
			0800				028.0	865.1
			0805				032.0	865.6
			✓080725		c/c		38034.0	69865.9
			0815				34.2	276.7
			✓0830				38033.8	69874.2
			0845				33.8	880.2
			✓085245		c/c		034.3	882.7
			0855				35.5	883.0
			0900				39.4	883.2
			0906				043.7	883.8
			✓090930		c/c		046.4	884.0
			0915				45.4	882.0
			✓0930				46.4	876.7
			0945				46.1	872.0
			✓1000				046.1	867.4
			✓1009		c/c		046.3	864.7

037

OPS  
12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

COMMENTS AND OBSERVATIONS

DEPART WOODS HOLE TO CONTINUE SURVEY  
WILL FINISH LINES IN VINEYARD SOUND  
ABOARD OHARA, PURDIE, TAUSEY

START LINE 13 VINEYARD SOUND = ROLL # 4

c/c CONT LINE 13 LOP 38,022.0

cont line 13

c/c END LINE 13 COMMENCE LINE 14 <sup>LOP</sup> 38,034

c/c CONT LINE 14

~~END~~ END LINE 14 START LINE 15 LOP 38046

c/c Cont. line 15 LOP 69,869.0

GMT				TIME ZONE	SHIPS	LORAN-C NAVIGATION		
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DANA
<del>2506757015</del>							<del>78050.6</del>	<del>69869.8</del>
			✓ 102445		9C		057.8	864.0
			1030				058.0	866.2
			1045				058.1	872.5
			✓ 1100				058.3	878.9
			1115				058.3	884.8
			✓ 112230		C/C		058.0	887.1
			1125				060.0	887.6
			1131				65.1	888.8
			1135				68.8	889.4
			✓ 113615		C/C		70.0	889.8
			1145				70.1	886.5
			✓ 1200				70.2	880.8
			1215				69.1	875.6
			✓ 1230				70.1	871.2
			1245				70.2	866.4
			✓ 125307		9C		70.2	863.9
			1256				73.0	864.3
			1301				78.2	65.1
			✓ 130452		C/C		82.1	65.4
			1306				82.6	66.0
			1315				86.9	69.0
			1322					
			1326					
			1326				081.8	872.8

058



OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

C/L END LINE 15 START 16 LOP 38058.0

C/L LINE 16 CONT

C/L END LINE 16 START LINE 17 LOP 38070.0

C/L LINE 17 CONT LOP 69864.0

C/L END LINE 17 START LINE 18

EPC off - belt change

EPC ON

c/c 885

GMT				TIME ZONE	SHIPS		LOGAN-C NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DANA
25	06	75						
			✓ 1330				38082.0	69874.3
			1345				82.3	79.3
			✓ 1400		40	c/c	81.8	884.3
			1406				86.6	883.5
			1410				090.7	883.0
			✓ 1413		30		094.3	882.7
			1416				94.1	881.6
			✓ 1430				094.0	875.7
			1452				094.2	867.4
			1500				093.9	867.2
			✓ 1509			c/c	094.9	862.7
			1510				101.0	862.0
			✓ 1515			c/c	106.2	861.5
			✓ 1530				106.1	866.5
			1545				106.1	871.8
			✓ 1600				106.0	875.4
			1615				106.0	879.2
			1630				105.9	883.1
			✓ 1632			c/c	106.4	884.0
			1636				108.4	885.1
			1640				100.1	886.4
			1646				102.9	888.6
			1650				114.5	889.9
			1655				117.1	891.7
			✓ 1659				118.1	892.2
			<del>1704</del>				<del>118.0</del>	<del>893.2</del>
			✓ 1705				117.9	892.5
			1715				117.8	888.9

OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAV.  
SONO  
STA

c/c LINE 18 CONT

c/c END LINE 18 START LINE 19 LOP 38094.0

c/c cont line 19 off Nashawena

c/c end line 19 commence line 20 LOP 38,106

dc cont line 20

~~paper change~~ END LINE 20 END ROLE #4

~~START LINE 21 START ROLL #5~~

" " " " " "

GMT				TIME ZONE ±	SHIPS		LORAN-C NAVIGATION	
DAY	MO	YR	TIME		COURSE	SPD	CAPE RACE	DANA
25	06		<del>1730</del>				38117.7	69883.0
			<del>1737:30</del>		c/c		38118.0	69879.9
			1745				112.7	879.8
			<del>1800</del>				103.4	880.1
			1815				092.5	880.1
			<del>1830</del>				081.9	880.1
			1845				071.7	880.4
			<del>1900</del>				059.5	879.9
			1916				047.1	880.2
			<del>1930</del>				035.5	879.8
			<del>1945</del>				322.4	879.9

OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

End line 21 temporarily - Resume line # 11 LOP 69,880  
up Vineyard Sound - southeastern most line

END LINE 11 (TODAY) ↓

CALL IN A DAY - ALL SYSTEMS SHUT DOWN  
ON ROUTE TO WOODS HOLE - FULL STEAM

NEW DAY TOMORROW - ?

THURSDAY 26 JUNE 75 280  
 NEW DAY

GMT				TIME ZONE	SHIPS		LORAN-C NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE DATA	
26	06	75	0600					
							38	69
			✓0638				37 963.9	69 872.6
			0645				972.0	872.3
			✓0700				989.5	872.4
			0715				38 065.5	69 872.3
			✓0730				020.8	872.6
			0745				036.8	872.2
			✓0800				052.5	872.5
			0815				067.1	872.3
			✓0830				081.6	872.5
			0845				096.6	872.4
			✓0900				109.6	872.9
			0915				122.9	872.8
			✓0930				136.9	872.3
			0945				150.3	872.4
			✓1000				164.1	872.7
			1015				177.4	872.3
			✓1030				190.2	872.2
			1045				203.3	872.4
			✓1100				217.4	872.0
			1115				230.0	872.6
			✓1130				243.7	872.0
			1145				258.0	872.7
			✓1200				271.8	872.3
			✓1209 c/c				280.5	872.5

OPS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

COMMENTS AND OBSERVATIONS

Depart WH dock @ 0650 - on route to  
start line down Vineyard Sound to Rhode Island  
Sound. Aboard O'Hara, Forester, Forester  
Line # 22

69872.5 - LOP Start line # 22 down Vineyard  
Sound out to Rhode Island Sound

Speed ~ 4.8 knots 1000 RPM

can't line # 22

Weather & seas couldn't be more ideal

etc continue line # 22

GMT				TIME ZONE	SHIPS	LORAN - C NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE DATA
26	06	75	1216		SE		38280.9 69874.9
			✓ 1230				280.2 880.4
			1245				280.1 885.3
			✓ 1249:30		c/c		279.6 886.9
			✓ 1300				271.7 887.1
			1316				258.9 886.9
			✓ 1328		etc		299.4 887.5
			1345				250.2 880.2
			1355				249.7 875.7
			✓ 1400				249.7 873.7
			1415				250.1 867.4
			✓ 1430				249.7 861.3
			1445				249.8 854.8
			✓ 1500				250.0 848.6
			<del>1510</del>				<del>249.8</del> <del>843.9</del>
			✓ 1511		c/c		248.8 843.9
			1515				246.7 844.2
			✓ 1525		c/c		238.1 844.9
			✓ 1530				238.2 846.0
			1545				238.0 850.7
			✓ 1600				238.2 855.8
			1615				238.3 860.5
			✓ 1630				238.5 865.8
			1645				237.7 870.3
			✓ 1700				238.1 875.3
			1715				38 238.1 69 880.2
			✓ 1730				237.9 885.1
			1745				238.2 890.3
			✓ 1800				239.9 895.1
			✓ 1813:10		c/c		237.7 899.2



OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

course change end line # 22 thru line 23 LOP 69, 857

c/c End line 23 temporarily - start line 29 LOP 38, 250

% LOP - 69 844.0

% End line # 24 start line # 25 LOP - 38, 238

SEAS A LITTLE ROUGH

cont line # 29 LOP 69, 899.0

69897

GMT				TIME ZONE	SHIPS		CORAN-C NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DAM
26	06	75	1815				38236.4	69849.0
			1828:30		0/c		225.7	898.9
			1845				225.6	892.1
			1900				226.0	886.2
			1915				226.0	879.9
			1930				226.0	873.4
			1945				226.1	866.9
			1950				226.1	864.8
			2130					



DAWN OF A NEW DAY  
FRIDAY 27 JUNE, 1975

beautiful morning

LORAN - C

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD		
27	06	75	0500				70,	69,
			0700				78226.7	69865.1
			X 0700				78226.3	69865.1
			0701				226.5	867.7
			0715				226.0	859.0
			X 0730				226.0	852.9
			0745				225.9	846.8
			X 0758				226.1	842.2
			X 0826				225.7	840.7
			0830				225.8	839.0
			0845				225.9	832.8
			X 0852		9c		226.1	829.9
			0855				224.6	828.8
			X 0900				222.0	827.0
			0905				219.4	825.4
			0910				216.5	823.8
			X 0914				213.9	822.4
			X 0921				213.7	821.1
			0930				213.6	824.3
			0945				214.2	829.9
			X 1000				213.8	835.1
			1015				214.1	839.8
			X 1030				214.0	844.4
			1035				213.8	845.9
			1037				214.2	846.6
			1045				214.0	848.8

L-C DOCKSIDE - CUTTYHUNK

38,107.8 69,857.5

OPS						COMMENTS AND OBSERVATIONS
12 KHZ	3.5 KHZ	CSP	MAG	GRAV.	SONO.	
						Depart dockside - Cuttyhunk - Offham, Farnabe Forested - on route to RT sound west of Cuttyhunk to resume Unboon survey of line 25 - Weather just fine
						LOP 38,226.3 Resume line #25
						Red Awakening Taped up wires <sup>through</sup> red hot wire check Power source starting out due to exposed wire Resume line #25
						YC cont. Line #25
						End line #25, Change Paper & Belt Start line #26 End Roll #5 Begin Roll #6 LOP - 38,214
						Slow speed - make way to sail boat RESUME SPEED AND COURSE

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD		
27	06	75	1100	-			38	69
			1115				213.8	853.6
			X 1130				214.2	858.4
			1145				214.0	863.4
			X 1200				214.0	868.4
			1215				213.8	873.2
			X 1230				214.1	878.1
			1245				214.5	883.3
			X 1300				213.9	888.1
			1315				213.9	893.0
			1330				215.8	897.7
			X 1331 c/c				213.9	902.7
			X 1345 c/c				213.6	902.9
			X 1400				201.6	903.4
			1415				202.2	896.7
			X 1430				202.2	890.7
			1445				202.3	884.6
			X 1500				201.7	878.2
			1515				201.9	872.7
			X 1530				202.0	866.8
			1545				202.2	860.9
			X 1600				202.0	855.2
			1615				201.9	849.4
			1627				202.3	843.4
			1629				202.2	838.3
			X 1630				202.1	837.2
			1645				202.1	837.1
			X 1700				201.2	830.8
			X 1701 c/c				202.3	824.8
			1705				202.2	824.5
							198.4	824.4

OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

Cont. line #26

cont line 26 on route to start of line # 27  
End line 26 Start line 27 COP 38,202

Shut Down recorder to change Belt  
Back On

c/c cont. 27





OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

O/C End line 27 - Resume line 10 <sup>LOP</sup> 78,190.0

END LINE 10 CALL IT A DAY  
IN ROUTE TO CUTTYHUNK

SECURED DOCKSIDE - CUTTYHUNK COAST GUARD  
FACILITY

1

853.7  
207.3

GMT				TIME ZONE	SHIPS		LORAN - C NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DANA
28	06	75	0500				38	69
			0552				135.6	853.0
			0600				142.8	852.4
			0615				158.8	853.0
			0618				162.0	852.5
			0630				173.6	852.2
			0645				186.2	852.3
			0700				202.6	852.5
			0715				217.4	852.4
			0730				231.9	852.8
			0745				246.4	852.8
			0755				256.1	852.5
			0800				254.3	850.8
			0805				252.5	848.5
			0810				250.8	846.3
			0815				248.5	844.3
			0820				247.0	842.7
			0825				245.0	840.7
			0830				243.0	838.2
			0835				241.1	836.2
			0840				239.5	834.8
			0845				237.4	833.1
			0850				235.0	833.6
			0853				236.0	834.8
			0900				230.4	835.4
			0915				216.9	834.9
			0930				204.1	835.0
			0945				190.5	834.7
			1000				177.7	835.2
			1015				164.9	835.6

OPS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

COMMENTS AND OBSERVATIONS

DEPART CATTYHUNK - ON ROUTE TO START OF LINE 28  
TIE LINE - OFF CATTYHUNK (WEST) O'HARA, FORRESTEL  
FERRETTIE - BEAUTIFUL MORN - FLAT CALM

Due North TEXAS TOWER

C/c Cont. line #28

Shore - barge in tow - in fog bank

origins - ship traffic

End line #28 start line #29 COP 69,835.0

m

69, 894 c/c

GMT				TIME ZONE	SHIPS		LORAN - C NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DANA
28	06	75	1030				38,151.2	69,835.4
			1040				38,142.0	69,835.2
			1045				142.0	837.3
			1100				141.4	842.9
			1115				142.4	848.3
			1130				142.4	854.0
			1133				142.3	854.7
			1146				142.2	853.7
			1200				142.0	858.8
			1215				141.5	864.5
			1230				141.9	870.2
			1245				142.1	875.7
			1258 10				142.0	880.0
			1300				143.1	880.0
			1315				154.6	880.0
			1330				167.4	879.8
			1345				180.3	880.1
			1356				190.0	880.2
							<del>249.6</del>	<del>888.0</del>
			1438				249.6	888.0
			1445				250.8	890.5
			1454:30 c/c				250.2	897.0
			1500				245.1	894.4
			1515				231.0	893.9
			1525				221.6	894.2
			1529				219.4	894.3
			1530				218.0	894.0
			1545				202.5	894.1
			1600				167.7	894.0

78190 Pullman

RESUME SMALL SEGMENT OF LINE 29

START LINE 30

OPS						COMMENTS AND OBSERVATIONS
12 KHZ	3.5 KHZ	CSP	MAG	GRAY	SONO	
					STA	
						CONTINUE LINE 29
						CC RESUME LINE 6 LOP 38,142.0
						Slowing down making circle to change paper RESUME SPEED AND COURSE + Belt +
						Friday afternoon (10:45 am) ...
						CC RESUME TO LINE 11 LINE 6 TERMINATE <del>2</del> TEMP
						END LINE 11 TEMP. UNIBOOM ARMED AND SECURE UNDER WAY-FULL STEAM TO RESUME LINE 24 RESUME LINE 24
						End line 24 Start line 30 LOP 69,899.0
						SLOW TO CHANGE RECORDER BELT RESUME COURSE + SPEED



OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

CC TO LINE 31 LOP 38,130.0

SHUT DOWN SYSTEMS - ABOARD + SECURE  
ON ROUTE TO WOODS HOLE FOR THE NIGHT  
ETA ~ 2030

DOCKSIDE - WOODS HOLE

NEW DAY  
SUNDAY 29 JUNE, 1975

GMT				TIME ZONE	SHIPS		LORAN - C NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DANA
29	06	75	0800					
			0823				37 957.7	69865.0
			0830				966.9	864.9
			0845				987.2	865.0
			0900				38 006.4	865.1
			0915				024.4	865.0
			0930				040.3	865.4
			0945				052.7	864.9
			1000				38 068.1	864.6
			1015				081.8	865.0
			1030				38 096.7	864.9
			1045				38 113.7	865.1
			1100				126.5	865.2
			1115				141.8	865.3
			1122 4				148.7	864.6
			1142 30				129.3	865.4
			1145				129.1	864.5
			1157		c/c		129.9	860.0
			1200				127.2	860.1
			1205				122.2	860.8
			1209:30		c/c		118.0	860.9
			1215				118.3	863.0
			1220				117.9	867.9
			1230				118.9	868.9
			1245				117.5	874.5
			1300		c/c		117.8	879.3
			1315				128.8	879.7







OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

Cont line 11  
c/c End line 11 Resume line #6 LOP 38,192

CC CONTINUE LINE 6 LOP 69,909.0

c/c End line 6 Resume line #31 LOP 38,130

c/c End line 31 Resume line 30

End line 30 Call it a Day

END OF  
SURVEY

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DANA
17	10	75	1330				37,	69,
			1415				37,957.9	69,860.1
			1421				37,955.3	69,860.1
			1430				37,951.4	69,860.4
			9/c 1434.30				37,949.8	69,860.6
			1445				37,950.1	69,863.7
			1500				37,950.3	69,867.0
			1515				37,950.0	69,870.1
			9/c 1518.30				37,950.1	69,871.2
			1519					
			1525				37,946.3	69,870.9
			1530				37,943.5	69,870.8
			1535				37,941.0	69,871.2
			9/c 1540.5				37,937.9	69,871.0
			1545				37,938.3	69,868.9
			1600				37,937.9	69,863.5
			1615				37,938.1	69,858.0
			9/c 1619				37,937.7	69,856.7
			1625				37,933.1	69,856.9
			1630				37,928.7	69,856.9
			9/c 1633				37,925.8	69,857.2
			1700				37,926.0	69,866.7
			1706				37,921.1	69,869.3
			1709				37,925.9	69,870.2
			171 <del>8</del>				37,926.1	69,872.8
			1730				9262	878.0

OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

DEPART WOODS HOLE - UNIBOOM SEISMIC  
NANTUCKET SOUND (WOODS HOLE - MONOMOY IS.)  
O'HARA, FERKESBEE, FORRESTEL  
on route to start of line # 33

Start line # 33

1/2 Cont. Line # 33

1/2 End Line # 33, START Line # 34  
Change P.P.M.S From 900 to 1000

1/2 Cont. line # 34

End line # 34 start line # 35  
LANE 69,857

Cont. line # 35  
lane 37,925,  
CHANGE STYLUS BELT  
EPC ON



OPS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

35 - TEMPORARY

COMMENTS AND OBSERVATIONS

End line ~~35~~ for tonight  
going back to Woods Hole

DEPART WOODS HOLE - ON ROUTE TO RESUME  
LINE # 35 - WILL TRY A-DYNE HYDROPHONE  
IN PLACE OF EFTG @ HART, FECKEREE  
FORESTEL

CONT LINE 35

Recorder down last 5V  
START LINE 36





OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAV.  
SONO  
STA

Depart Woods Hole - Tuesday - beautiful morning  
~~START~~ Line #38 - Recorder not getting signal  
Start Line #38

End Line #38 Temp.

GMT				TIME ZONE ±	SHIPS		NAVIGATION	
DAY	MO	YR	TIME		COURSE	SPD	CAPE RACE	JANA
24	10	75	1400				37	69
			1420				37961.0	69860.2
			1430				37958.2	69860.0
			9/c 1442				37949.7	69860.1
			1500				37949.8	69866.1
			1515				37950.0	69870.8
			9/c 1521				37949.9	69872.8
			1525				37946.8	69872.3
			1530				37943.4	69872.1
			1535				37940.2	69871.3
			9/c 1540				37938.0	69870.9
			1545				37938.1	69868.5
			1600				37938.0	69863.3
			1615				37938.3	69857.6
			9/c 1618				37937.3	69856.6
			1625				37932.5	69856.1
			1631				37927.8	69856.1
			9/c 1633.5				37925.9	69854.3
			1645				37926.4	69859.9
			1700				37926.0	69863.4
			1715				37926.1	69867.4
			1730				37926.4	69870.2
			1745				37926.3	69872.8
			1800				37926.6	69875.4
			1803				37926.7	69875.6

Friday Aft. Oct. 24  
Gorgeous Day

OPS						COMMENTS AND OBSERVATIONS
12 KHZ	3.5 KHZ	CSP	MAG	GRAY	SONG	
						STA
						Depart Woods Hole Dock with new diaphragm in Transducer.
						↙ Start line #33 Lane # <del>39</del> 860
						1/2 Cont. Line #33 Lane #37,950
						1/2 End Line #33, Commence Line #34
						1/2 Cont. line #34 Lane # 37,938
						1/2 End line #34 Commence Line #35 Lane # 69,856
						1/2 Cont. line #35 Lane # 37,926
						Slaving down to avoid Motor Boat Haul Gear, going back to Woods Hole

GMT				TIME ZONE	SHIPS	NAVIGATION		
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DANA
25	10	75	0605				37	69
			0700				37926.2	69875.0
			0715				37926.2	69877.4
			0730				925.7	69880.8
			0745				926.9	885.1
			0800				37925.9	69888.9
			0815				37926.2	69893.3
			c/c 0830				37926.2	69897.7
			0835				37922.3	69897.2
			0840				37918.1	69896.7
			c/c 0845				37914.4	69896.2
			0900				37914.1	69890.0
			0915				37914.5	69884.7
			0930				37914.2	69878.8
			0945				37913.9	69873.6
			1000				37914.2	69868.6
			1015				37914.2	69864.0
			1030				37913.9	69859.2
			c/c 1031				37914.0	69859.0
			1035				37911.0	69859.3
			1040				37907.5	69859.9
			1045				37902.7	69860.7
			c/c 104830 c/c				902.3	860.9
			c/c 1100				37901.9	69864.8 ←
			1115				37909.7	865.0
			1120				37917.4	69864.9
			1145				37924.5	69864.8

OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

Depart WHOI Dock  
Continue line #35 Lane # 37,926

c/c End line #35 Commence line #36

c/c Cont. line #36 Lane # 37,914

c/c End Line #36 Commence Line #37

c/c can't line #37

~~c/c End Line #37 Temp. Begin Line #38~~  
Lane # 69,865 - change in survey plans due  
to increasingly rough sea - wind SE 2/5 knots + building;  
This line en route to Wovche Hole

GMT				TIME ZONE	SHIPS		NAVIGATION		
DAY	MO	YR	TIME	±	COURSE	SPD	CAPT	RACE	DANA
25	10	75	1200				37931.0		69865.0
			1215				37937.1		69865.3
			1219				37938.6		69865.2
<hr/>									
26	10	75	0915				37902.4		69868.9
			0930				37902.1		69874.5
			0945				37901.9		69879.7
			1000				37901.9		69886.2
			1015				37902.0		69892.1
			1030				37902.1		69897.8
			1045				37902.0		69903.6
			1100				902.0		69908.9
			1115				37901.9		69913.2
			1130				37901.8		69917.4
			1145				902.2		920.9
			1159				901.9		925.2
			1212				69925.2	←	37889.6
			1215				37888.8	→	69924.5
			1230				37888.8		69920.4
			1240				889.9		918.2
			1245				891.6		917.5
			1250				893.6		916.3

c/c

OPS

## COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

Cont. Line # 38

End Line # 38 <sup>TEMP</sup> Rough Seas, return to left

NEW DAY SUN 26 OCT 75  
 DEPART WH @ 0800 on route to resume line #  
 37 just south of St. Hommedieu shoal  
 sea conditions favorable

Resume line # 37 (37,902) SE

cont line # 37

c/c End line 37 Commence line # 39 (69,925)  
 c/c Continue line 37 37889.0

cla due to shoals; heading west to deeper H<sub>2</sub>O (Channel)

# DORAN - C

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME		COURSE	SPD	CAPE MAE	DUNA
26	10	75	1255				37895.6	69915.0
			1300				37898.1	69913.9
			1305				37900.7	69913.3
			<del>1310</del>				<del>37899.3</del>	<del>69911.8</del>
			1315				37897.0	69910.4
			1320				37894.0	69909.2
			1325				37891.7	69907.7
			1330				37889.6	69906.7
			1335				37890.0	69905.5
			1340				889.8	903.8
			1345				889.8	902.7
			1350				859.6	901.5
			1351				37889.6	69901.0
-----								
28	10	75	0800					
								DEPART WOODS HOLE
			0838				37967.3	69870.2
			0845				963.4	870.3
			0900				955.3	870.0
			0915				948.2	869.9
			0930				940.7	869.5
			0945				933.7	870.3
			1000				924.3	870.1



OPS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SOND  
STA

COMMENTS AND OBSERVATIONS

still heading for Mustang channel

can't line 39

Resume line 37, & 20 can't line 39

Discontinue line 39 temp.

---

TUE 28 OCT MEN DAY  
ON ROUTE TO START OF LINE #40  
SEA CONDITIONS FINE

OKAY, COMMEAU

Begin Uniboom Survey - start Line 40  
DANA LAKE 69, & 70.0

# LORAN-C

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	Cape Race	DANA
28	10	75	1015				37914.1	69870.2
			1030				902.7	869.9
			1045				890.4	870.2
			1100				877.3	870.0
			1115				863.7	870.1
			1117:30		F/A		861.0	870.0
			1120				862.5	869.9
			1125				865.4	869.2
			1130				867.7	868.2
			1135				862.7	868.0
			1140				857.6	868.0
			1145				854.9	869.1
			1146:30		F/A		854.6	869.7
			1200				840.8	870.0
			1215				826.0	870.1
			1230				811.1	870.1
			1245				796.3	870.0
			1300				781.7	870.3
			1315				766.4	870.3
			1330				751.1	870.3
			1336		F/C		746.2	870.4
			1345				745.7	873.6
			1356		F/A		745.7	877.8
			1400				744.1	879.0
			1405				742.3	881.0
			1410		F/A	200°T	742.1	882.5
			1415				745.3	884.3
			1416				746.0	884.9
			1430				745.8	889.6
			1431		F/C		745.8	890.0

OPS  
12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

COMMENTS AND OBSERVATIONS

Adj course due to shoals

L-C LANE  
Back on Line 40<sup>L-C</sup> 69,870

End Line 40 START Line 41 (L-C 37,746)

Adj course due to shoals

Adj course = Bell Buoy #1 A beam

Back on lane 37,746 con't Line 41

End Line 41 Temporarily - Start Line 42  
(L-C 69,890.0)

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE	DANA
28	10	75	1445				37755.5	69890.0
			1500				767.4	69890.0
			1515				779.6	890.2
			1530				792.0	890.2
			1545				804.4	890.1
			1600				816.8	890.1
			1615				829.1	889.9
			1630				841.3	890.1
			1645				853.2	889.8
			1700				864.7	889.9
			1715				877.4	889.9
			1730				890.3	889.7
			1745				903.1	890.0
			1800				915.8	889.6
<hr/>								
29	10	75	0655					
			0853				37888.9	69903.0
			0900				890.2	900.8
			0915				889.6	895.5
			0930				889.7	889.2
			0945				890.3	883.4
			1000				890.2	877.3
			o/a 1010				889.7	873.2
			1015				893.6	872.6

OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

Cont. Line 42 (4-669890.0)

End Line 42 Return to W.H.

Depart Woods Hole - on route to resume line #  
39 - O'Hara

Commence resumption of line #39 37,890.0

Line #39

come adj due to shoaling

# LORAN-C

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE MEX	HANA
29	10	75	1020				37 895.8	69 871.3
			1025				892.3	870.4
			1029 <sup>45</sup>				889.0	869.2
			c/c 1043 <sup>30</sup>				890.0	863.7
			1050				885.9	864.7
			1055				882.9	865.3
			1100				879.5	865.8
			c/c 1102 <sup>30</sup>				877.7	865.8
			1115				878.0	869.8
			1130				878.3	874.8
			1145				878.3	879.9
			1200				878.1	884.9
			1215				878.2	890.0
			1230				878.5	894.8
			1245				877.9	899.6
			1300				37 878.2	69 904.2
			1315				877.9	909.3
			c/c 1316 <sup>30</sup>				878.0	910.0
			1328				865.8	910.3
			1345				866.3	905.3
			1400				866.1	901.0
			1415				865.6	896.6
			1430				866.3	892.3
			1445				866.0	888.1
			1500				865.7	883.5
			1515				866.1	879.5
			1522				866.1	877.3
			1530 <sup>30</sup>				866.0	877.8
			1545				866.2	873.6
			1600				37 866.3	69 869.7

OPS

COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAY  
SONO  
STA

cont line # 39

cont C/A

back on L-C lane ~~698~~ 37,890

c/c End line # 39 Commence line # 43

c/c cont line # 43 Cape Hen 37,878.0

cont line # 43

c/c End line # 43 commence line # 47 (69,910.0)  
c/c cont line # 47 (37,866)

line # 47

Report Best change

Resume line # 47 START ROLL # 3

End line # 47 End survey for the Day  
on route to Woods Hole

GMT				TIME ZONE	SHIPS		NAVIGATION	
DAY	MO	YR	TIME	±	COURSE	SPD	CAPE RACE DANA	
30	10	75	0845					
			0852				37961.9	69859.2
			0900				962.2	861.7
			0915				961.9	865.2
			0930				962.3	867.9
			0945				962.0	872.2
			0946	°/c			962.0	872.4
			0957:30	°/c			974.0	872.5
			1015				974.5	868.6
			1030				973.9	865.6
			1045				974.0	862.1
			1054:30	°/c			974.6	859.8
			1100				980.4	860.5
			1105				986.5	861.2
			1115				986.2	864.0
			1130				986.1	868.9
			1145	°/c			986.0	874.0
			1150				989.3	874.4
			1155				993.8	874.7
			1200	°/c			998.0	875.0
			1215				998.0	872.4
			1230				998.2	869.0



OPS

## COMMENTS AND OBSERVATIONS

12 KHZ  
3.5 KHZ  
CSP  
MAG  
GRAV.  
SONO  
STA

THUR OCT 30 - 75

ON ROUTE TO NE PART OF VINEYARD  
SOUND TO RECON LINES 1-5

Depart w #

START-ON line 1A (37,962) NE Vineyard Sound

Cont. Line 1A (69,872.5)  
End Line 1A - Begin Line 2A (37,974)Cont. Line 2A  
End Line 2A - Begin Line 3A (37,986)

Cont. 3A

End Line 3A - Start Line 4A (37,998)

END SURVEY FOR DAY - ROUGH SEAS  
ASTORIA w/ ENGINE TROUBLE

# OVERTIME LOG

OPS	COMMENTS AND OBSERVATIONS		
12 KHZ 3.5 KHZ CSP MAG GRAY SONO STA			
6	0600 - 2000 HRS	THUR 19 JUNE	O'HARA - ROBB
9 1/4	0800 - 2015 HRS	FRI 20 JUNE	O'HARA - FORRESTEL
17	0600 - 2000 HRS	SAT 21 JUNE	O'HARA - JENNINGS
12 1/2	0500 - 1730 HRS	SUN 22 JUNE	O'HARA - JENNINGS
	MON 23 JUNE NO GO - WEATHER		
	TUE 24 JUNE NO GO - WEATHER		
6 3/4	0600 - 2045	WED 25 JUNE	O'HARA, PURDY, TAUSEY
7 1/2	0600 - 2130	THUR 26 JUNE	O'HARA, FARRABEE, FORRESTEL
8 1/4	0500 - 2125	FRI 27 JUNE	O'HARA, FARRABEE, FORRESTEL
15 1/2	0500 - 2030	SAT 28 JUNE	O'HARA, FARRABEE, FORRESTEL
10	0800 - 1800	SUN 29 JUNE	O'HARA, FARRABEE, WINGET
~			
O'HARA FORRESTEL JENNINGS PURDY TAUSEY FARRABEE WINGET		} R/V ASTERIAS  JUNE 19 THUR THRU JUNE 29 SUN	