82040nav

NAVIGATION LOG
NEECHO 82-2

CHIEF SCIENTIST: RUSTY TIREY

U.S. GEOLOGICAL SURVEY
OFFICE OF MARINE GEOLOGY

Woods Hole, Massachusetts
02543

COPY OF ORIGI

82-2
NECH 101445
82040

SHIP/CRUISE NO./LEG NEECHO 82-2 — 1

CHIEF SCIENTIST Rusty TIREY May 12, 82

LINE START / END	SMT TIME	File ~~YYMMDD~~ No	CRS/HDG	SPD	NAVIGATION DR	SEISMIC SYSTEM
1	1951	3856			Red 54 - 150 ft	between R 54 & B53
1	2007	4044			Black 55 - 230' to left	
	2020	4209			abeam C-57 - 300 ft to [illegible]	
	2029	4312			abeam R-60 56' ft to starboard	
	2044	4490			Red 62 - 90'	
	2055	4619			Red 64 - 145'	between C 63 and R 64
	2105	4747			Red 66 - 115 ft	between C65 and R66
	2118	4890			Red 68 - 115 ft	between C 67 and R 68

End of Line. Off
Chickahominy River

AREA JAMES RIVER - Line from Newport News -

TIME ZONE EDT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
	?					0.4 mils
	Steering 285 magnetic					buoy 150 ft to sea
	C					
	310° M					off New Port News
						Under bridge
	313° M					
	298°					150' to port
						110' to starboard

SHIP/CRUISE NO./LEG James River

CHIEF SCIENTIST Rusty Tirey

LINE START / END	GMT TIME	File ~~YYMMDD~~	Mini'R CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
1 James River	1430 GMT	1			DR & M	File No 1 Multichannel System
2	1438	98				Abeam #12 red buoy off New Port
	1444				C/C	
	1457	329				Crane on beach 500' off
	1531	722			C/C	Under bridge RT 17
	1555	1022				abeam Red #2 above bridge
	1605	1136			340 ft from buoy	Red ~~#4~~
	1633	1470			250 ft from 6	Between Red #6 & Black
	1634				C/C	
	1639	1548				abeam #9 black buoy
	1641	1577				abeam #10 red buoy
	1649	1666			C/C	~~#10~~
	1651	1695				160' abeam of #12 red buoy
	1705	1862			130 ft to Red #16	Between No 15 and Red #16
	1711	1950			140 ft to Red #18	between No 17 & Red #18
	1722	2061			180 ft to Red #20	between No 19 & Red #20
	1732	2189			140 ft to Red #22	between Black 21 & Red #22
	1740	2281			180 ft to Flasher #	23 Quick Flash
	1805	2578			~~170 ft to Red 2~~	190' to black can # 25
	1815	2700			170 ft to Red 28	between N28 & Black B 27
	1823	2793			170 ft to Red 30	between Red 30 & B&W J 33'
	1831	2897			160 ft to Red 32	between Red 32 & Black C 31
	1838	2974			123 ft to Red 34	between Red 34 & a B&W
	1842	3022			80 ft to R34A	
	1846	3073			130 ft to R 36	
	1851	3135			180 ft to R38	between R38 & B 37
	1858	3210			140 ft to R40	~~[illegible]~~ BP
	1907	3327				↳ abeam OK FL BR
	1914	3412			240 ft to	black C "43"
	1923	3521			~~160 ft to R 46'~~	between R46 & B "45"
	1931	3614			72 ft to R	between R48 & B 47
	1939	3705			82 ft to R	between R50 & B44
	1943	3760			135 to R52	between R52 & Black

AREA JAMES RIVER, VIRGINIA

TIME ZONE EDT (and GMT)

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS

SHIP/CRUISE NO./LEG NEECHO 82-2 Leg 2

CHIEF SCIENTIST TIREY

LINE START / END	TIME GMT	File ~~YYMMDD~~ No	CRS/HDG	SPD	NAVIGATION DR	SEISMIC SYSTEM
I			May 13, 1982			Multi-channel 10 meter spec.
	1949				Red #6 at 300'	15" Water gun
	1952				Red #4 at ~300'	Small sparker - pressurized
	1956				Red #2 at ~210'	Tip
	2008				Black 3 ~600'	
	2028	429			#1 Tunnel - 300'	
	2043	603			#25' - 180'	
	[illegible]	763			#23 - 155	
	2107	892			#21 - 200'	
	2117	1020			#19 - 110'	
	2129	1160			#17 - 115'	
	2142	1315			#15 130'	
	2156	1477			#13 160'	

AREA HAMPTON ROADS Newport News - Little Creek

TIME ZONE EDT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS

T09

SHIP/CRUISE NO./LEG NEECHO 82-2 Little Creek York River

CHIEF SCIENTIST TIPE May 14, 1982

LINE START/END	12:43 TIME	YYMMDD	CRS/HDG	SPD	36°59' / 76°09' NAVIGATION LORAN C		SEISMIC SYSTEM
	12.43				36°59'	76°09'	
	12:51				59.61	9.42	File #96
	13:05				4.0	9.26	261
	13:15	TD	45		0.94	9.14	384
	13:18				~~1.71~~	~~8.85~~	increase speed
	13:30	27222.1	58509.6		1.71	8.85	File #561
	13:47	27220.8	58515.3		2.68	8.24	#763
	13.53				~~3.32~~	~~7.96~~	increase speed
	14:00	27220.4	58519.6		3.32	7.96	File # 892
	14:15	27220.2	58524.6		4.12	7.53	#1071
	14.37	27220.3	58531.4		5.29	6.98	1335
	1445	27220.4	58534.2		5.79	6.77	1444
	1500	27220.4	58539.2		6.61	6.38	1624
	1515	27220.2	58544.3		7.42	5.94	1694
	1530	27220.1	58550.2		8.44	5.45	1984
	1545	27220.2	58556.1		9.40	5.02	2166
	1600	27221.8	58561.6		10:23	4.48	2337
	1615	27220.0	58566.8		11.15	4.10	2512
	1630	27220.2	58572.4		12.13	3.71	2705
	1645	27220.9	58577.6		13.07	3.41	2884
	1700	27221.2	58582.9		14.02	3.01	3052 — Start Turn
							Course 225° Mag
	1715	27221.6	58576.0		13.84	4.41	3231 CC-280
	1730	27237.1	58:56.6.5		14:04	6.93	Maneuvering for crab pots
	1800	27242.2	58563.2		14.27	7.91	3770
	1805						Maneuvering for crab pots
	1815	27247.6	58557.5		14.23 ~~3.54~~	0937	3954
	1830	272530	58550.2		1391	1088	4131
	1845	272586	585423		1358	1234	4323
	1900	27264.3	585353		1343	1376	4509
	1915						going around fishtrap
	1930	27290	58527.8		1379	1597	4862
	1945	27278.1	58520.9		1346	1724	5050

AREA LOWER CHESAPEAKE BAY

TIME ZONE EDT & GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
						Fig 4

SHIP/CRUISE NO./LEG Neecho 82-2 Little Creek-York River

CHIEF SCIENTIST Tirey 5-14-82

LINE START / END	TIME 1950	YYMMDD	CRS/HDG	SPD	LORAN C NAVIGATION 37°13' - 76°17'	SEISMIC SYSTEM File #5
		TD's				
	2000	27283.6	58517.1		13.74 18.44	5213
	2030	27295.1	58509.9		14.57 20.83	5570
	2122				DR Fix York R	6206 abeam N24" York R
	2144				Dr.	6464 - 200ft N26
	2147		last shot point			6496

SHIP/CRUISE NO./LEG NEECHO - 82-2 - LINE 4

CHIEF SCIENTIST G. TIREY May 15, 82

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION DR	SEISMIC SYSTEM Multichannel
~	1326				CRS-280	File #1 - ~~buoy #R-26~~
	1328				290	#24 R-26
	1406				Under the Yorktown Bridge	477 file
	1416		200 ft off buoy			#593 R-H28
	1418		increased speed			
	1430				380' to buoy	#767 #R-H-30
	1449				390' to buoy	994 #R-H-32
	1513				400' to buoy	#1287 #R-H-34
	1526					1433 end of pier
	1537					1570 Pages Rock Tower
	1551					1741 B-C-35 buoy
	1601					1862 R#2-PA
	1603					1891
	1621					2107 B-#37
	1637				Day marker	2293 #39
	1646					2396 #41
	1702				Day Mark	2540 #42
	1728				Black & White Buoy	2901 #"Y11"
	1745				B&W "Y14"	3115
	1803				B&W N "Y15"	3325 - N"Y15"
	1831				45' Tower	3665 6M 48
	1844		End of Line			3820
			about		1/4 mi short of	Day Mark #51
			up		York River	

Going down river from West Point to Yorktown

SHIP/CRUISE NO./LEG NEECHO 82-2 YORK RIVER

CHIEF SCIENTIST TIREY 15 May 1982

LINE START / END	TIME GMT	YYMMDD	CRS/HDG	SPD	NAVIGATION DR	Small Sparker SEISMIC SYSTEM No pressure on tip
4	1905					Day Mark "51"
	1925				Day Mark	"48"
	1949				Black & White	— Y"15"
	2005				— "	Y"14"
	2020				"	Y "11"
	2034				Black car	C "43"
	2050				Black car	C "41"

2 4 min
2 4 min

SHIP/CRUISE NO./LEG NEECHO 82-2 Leg 5

CHIEF SCIENTIST TIREY 16 May 1982

LINE START / END	TIME GMT	YYMMDD File	CRS/HDG	SPD	T.D. NAVIGATION LORAN C		SEISMIC SYSTEM Lat	Long
5	1620	001			27284.4	58618.0	37°29', 90	76°10.25
	1625	181			27286.9	58621.9	37°30.8	76°10.3
	1645	300			27288.4	624.6	31.49	10.34
	1700	484			290.6	628.4	32.45	10.38
	1715	663			27292.6	58632.8	33.57	10.30
	1730	840			27294.7	58636.7	34.36	10.33
	1745	1020			27297.0	58640.3	35.27	10.40
	1800	1211			27299.5	44.4	36.28	10.43
	1815	1380			27301.6	58648.1	37.18	10.49
	1827	1528			27303.7	58651.5	37.97	10.52
					End of Line			

AREA Chesapeake Bay off Rappahannock River

TIME ZONE EDT using GMT

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
	C 000°T					

SHIP/CRUISE NO./LEG NEECHO 82-2 Leg 6

CHIEF SCIENTIST TIREY 17 May 1982

LINE START / END	TIME	YYMMDD File	CRS/HDG	SPD	LORAN & DR NAVIGATION TDS	SEISMIC SYSTEM LAT	LONG
6	1424	001			27345.6 58722.6	37° 54.77'	76° 11.08'
	1428	053			1/2 mi	abeam flag C "1"	
	1430	073			27348.5 / 58722.0	55.01	11.56
	1445	266			27355.2 / 58719.8	55.71	12.74
	1452	356			Radar 0.4 mi N	B&W N"43B"	
	1500	435			27361.1 / 58718.0	56.24	13.73
	1515	612			27366.9 / 58716.2	37° 56.82	76° 14.76
	1522	704			Radar 0.4 mi N	B&W N"44B"	
	1530	800			27373.1 / 58714.6	57.41"	15.81'
	1545	972			27378.7 / 58713.0	57.99'	16.79'
	1551	1051			Radar 0.45 mi	N B&W N"45B"	
	1600	1152			84.5 / 58711.5	37° 58.64'	76° 17.72'
	1615	1332			90.8 / 58709.8	37° 59.16	76° 18.68
	1621	1408	c/c		Radar 0.5 mi N	B&W N"46B"	
	1630	1512			95.6 / 08.0	59.65	19.67
	1645	1695			401.6 / 05.3	00.13	20.77
	1650	1759			0.9 mi S of BWA" Gong Entrance Potomac Bury		
	1653	1791			0.37 mi from B&W "N47B"		
	1655	c/c					
	1700	1872			407.5 / 703.0	38° 00.65'	76° 21.83
	1715	2052			27413.6 / 58701.4	01.29	22.86
	1721	2132			0.4 mi from	B&W "N48B"	
	1730	2232			19.8 / 58699.8	01.90	23.90
	1735	2296			22.0 / 99.0	02.12	24.28
					END of LINE		

12.2 nautical miles

NEECHO 82-2

YORK RIVER NAVIGATION
G. TIREY
82040nav

AREA Mouth of Potomac River C"1"
TIME ZONE EDT & GMT

SWP	~~PROGRAM~~ / SCALE Course	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
	C: 315					
	C/C 310					being set to NE
—	C/C 315					