98012
RAVN
98

104994

USGS
science for a changing world

COASTAL AND MARINE GEOLOGY PROGRAM
WOODS HOLE FIELD CENTER (WHFC)

384 Woods Hole Road, Woods Hole, MA 02543-1598
Phone: (508) 548-8700

ISIS LOG

SHIP AND CRUISE: Rouge Wave RAVN98

AREA: Loch Raven Reservior, Baltimore County, MD

DATES: 4/6/98 – April 17 1998

CHIEF SCIENTIST: Foster

Cruise: RAV N98012 **Chief Scientist:** Foster **Area:** Loch Raven **Page:** 1

Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)
		4/7/98	11:15 local		underway Loch Raven Fishing Center
			11:30 local		3.5 in water 2½ foot draft
					Odom scale in meters w/
					no draft correction
			11:45 local		tuning 3.5
1	Jaz		15:58Z	line1.tra	SOL 1 axial line towards dam
			1615		EOL 1
2			1620	line2.tra	SOL 2 WP 1 - 2
			1625		EOL 2
3			1629	line3.tra	SOL3 WP 3-4
			1632		EOL3
4			1635	line4.tra	SOL4 WP 5-6
					nav locked up circle
					to restart line 4
			1639	line4a.tra	
			1642		nav locked near EOL circle
			1642		EOL 4
5			1654	line5.tra	SOL 5 7 to 8
			~~1655~~ ?		EOL 5
					heading back to dam to
					run axial line - Nav. is
					a problem -
6			1703	line6.tra	SOL 6 WP 190 - 189
			1708 ?		nav crashed

Cruise:			Chief Scientist:		Area:	Page:
Line #	**Tape #**	**JulDay & Date**	**Time GMT**	**Filename**	**Remarks (seismic, nav, problems, etc.)**	
6		97 4/7/98	1711	line6.tra	EOL 6	
7			1718	line7.tra	SOL run axial line north to open water – to see if	
					nav improves	
			1738?	EOL 7	Underbridge nav crashed	
				~~SOL 8~~	~ 1-2 before EOL	
				~~SOL 8~~		
8			~~1739~~	line8.tra	SOL 8 wp 88 – 87	
			1744		on line	
			1751		nav back on crashed ~1748?	
			1753		EOL 8	
9			1800	line10.tra	SOL 9 wp 86 – 85	
			1808		EOL 9	
10			1848	line 10.tra	SOL 10 wp 89 – 90	
			?		nav crashed	
			1854		nav on	
			~~1855~~?		nav crashed	
			1900		nav on	
			1905		EOL 10	
11			1909	line 11.tra	SOL 11 wp 91-92	
			1914		EOL 11	
12			1916	line 12.tra	SOL 12 wp 109-110	
			1918		nav crashed	
			1920		nav on	
			1926		EOL 12	
13			1932		SOL 13 wp 111 – 112	

FedEx 3324032003
Air Bill

Cruise:		Chief Scientist:		Area:	Page:
Line #	**Tape #**	**JulDay & Date**	**Time GMT**	**Filename**	**Remarks (seismic, nav, problems, etc.)**
13		097 4/7/98	1935		EOL 13
14			1946	line14.tra	SOL 14 w/ 113-114
					nav crashed
					nav crashed again.
					EOL 14 before eol
					nav is bad
		98 4/8/98			
~~15~~	~~3~~ HD	~~97~~			SOL 15

Cruise:			Chief Scientist:		Area:	Page:
Line #	**Tape #**	**JulDay & Date**	**Time GMT**	**Filename**	**Remarks (seismic, nav, problems, etc.)**	
15		098	1306	Line 15	SOL 1306	Pts. 9→10 W→E
					EOL 1308	
16		098		Line 16	SOL 1311	Pt 11→12 E→W
					EOL 1313	
17		098		Line 17	SOL 1316	Pt. 13→14 ~~E~~→W
					EOL 1319	Cut Short due to Load
18		098		Line 18	SOL 1321	Pt. 15→16 S→N
					EOL 1323	
19				Line 19	SOL 1326	Pt. 17→18 N→S
					EOL 1327	
20		098		Line 20	SOL 1331	Pt. 19→20 S→N
					EOL 1333	
21		098		Line 21	SOL 1338	Pt. 21→22 N→S
					EOL 1340	
22		098		Line 22	SOL 1343	Pt 23–24 S→N
					EOL 1348	
23		098		Line 23	SOL 1351	Pt 32→31 W→E
					EOL 1354	
24		098		Line 24	SOL 1356	30→29 E→W
					EOL 1358	
25		098		Line 25	SOL 1402	28→27 W→E
					EOL 1404	~~83→84 E→W~~
26		098		Line 26	SOL 1414	83→~~84~~ 82 E→W
					EOL 1427	

Cruise:			Chief Scientist:		Area:	Page:
Line #	**Tape #**	**JulDay & Date**	**Time GMT**	**Filename**	**Remarks (seismic, nav, problems, etc.)**	
27		098		Line 27	SOL 1432	Pt. 56 → 55 W→E
					EOL 1443	
28		098		Line 28	SOL 1445	Pt. 54 → 53 E→W
					EOL 1453	
29		098		Line 29	SOL 1456	Pt. 52 → 51 W→E
					EOL 1501	
30		098		Line 30	SOL 1505	Pt. 50 → 49 W→E
					EOL 1509	48 → 47
31		098		Line 31	SOL 1514	Pt. 48 → 47 W→E
					EOL 1517	End line early house foundation
32		098		Line 32	SOL 1526	Pt. 37 → 38 S→N
					EOL 1529	
33		098		Line 33	SOL 1532	Pt 39 → 40 S→N
					EOL 1537	
34		098		Line 34	SOL 1541	Pt 41 → 42 N→S
					EOL 1545	
35		098		Line 35	SOL 1549	Pt 43 → 44 S→N
					EOL 1552	
36		098		Line 36	SOL 1558	Pt 46 → 45 S→N
					EOL 1603	
37		098		Line 37	SOL 1606	59 → 60 S→N
					EOL 1613	
38		098		Line 38	SOL 1619	Pt. 62 → 61 S→N
					EOL 1622	

410-823-4410 X 302

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
39		098		Line 39	SOL 1627 Old line #9	pt. 86→85 W→E
					EOL 1635	
40		098		Line 40	SOL 1639 Old Line # 8	pt 88–87 E→W
					EOL 1652	
41		098		Line 41	SOL 1659 Old Line #11	pt. 92–91 E→W
					EOL 1704	
42		098		Line 42	SOL 1708 Old Line 10	pt. 90→89 W→E
					EOL 1722 NAV Drop outs	
43		098		Line 43	SOL	pt. ~~(illegible)~~ E→W
					EOL	pts 80→79
		100		Line 43	SOL 1519	pt. 79-8
					EOL 1522	
				Line 44	SOL 1529	~~(illegible)~~ 77-78
					EOL 1535	
				Line 45	SOL 1538	75-76
					EOL 1542	
				Line 46	SOL 1545	73-74
					EOL 1548	
				Line 47	SOL 1557	71-72
					EOL 1604	
				Line 48	SOL 1609	pts 69-70
					EOL 1617	
				Line 49	SOL 1623	66-65
					EOL 1627	

Cruise:			Chief Scientist:		Area:	Page:
Line #	**Tape #**	**JulDay & Date**	**Time GMT**	**Filename**	**Remarks (seismic, nav, problems, etc.)**	
		100		Line 50	SOL 1638	pt 79-82
					EOL 1649	
				Line 51	SOL 1652	89-90
					EOL 1700	(old line 10)
				Line 52	SOL 1714	116-115
					EOL 1725	
				Line 53	SOL 1727	99-100
					EOL 1730	
				Line 54	SOL 1732	97-98
					EOL 1736	
				Line 55	SOL 1740	93-94
					EOL 1758	
				Line 56	SOL 1812	95-96
					EOL 1816	
				Line 57	SOL 1823	101-102
					EOL 1834	
				line 58	SOL 1841	110-109
					EOL 1848	
				line 59	SOL 1853	112-111
					EOL 1900	
				line 60	SOL 1909	113-114
					EOL 1921	
				line 61	SOL 1940	119-120
					1945	

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
				line 62	1948 sol	118-117
					1955 eol	
				line 63	2009 sol	63-64
					2014 eol	
				line 64	2031 sol	108-128
					2042 eol	
		101		line 65	1236 sol	7-8
					1243 eol	
				line 66	1247 sol	5-6
					1251 eol	
				line 67	1254 sol	3-4
					1257 eol	
				line 68	1259 sol	1-2
					1301 eol	
				line 69	sol 1409	131 due N
					eol 1420	
				line 70	sol 1423	162-161
					eol 1435 power output 5kW	
				line 71	sol 1440	164-163
					EOL 1445	
				Line 72	sol 1456	155-156
					eol 1502	

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
				line 73	SOL 1507	157-158
					EOL 1519	
				line 74	SOL 1526	159-160
					EOL 1534	
				line 75	SOL 1549	183-184
					EOL 1550	
				Line 76	SOL 1554	181-182
					EOL 1556	
				Line 77	SOL 1559	179-180
					EOL 1601	
				Line 78	SOL 1604	177-178
					EOL 1606	
				Line 79	SOL 1615	185-186
					EOL 1617	
				Line 80	SOL 1619	175-176
					EOL 1623	
				Line 81	SOL	173-174
					EOL 1629	
				Line 82	SOL 1633	171-172
					EOL 1637	
				line 83	SOL 1641	169-170
					EOL 1645	
				line 84	SOL 1649	167-168
					EOL 1654	

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
				line 85	SOL 1658	165-166
					EOL 1701	
				line 86	SOL 1707	154-153
					EOL 1709	
				line 87	SOL 1711	152-151
					EOL 1715	
				line 88	SOL 1717	149-150
					EOL 1721	
				line 89	SOL 1725	147-148
					EOL 1730	
				line 90	SOL 1734	145-146
					EOL 1738	
				line 91	SOL 1744	143-144
					EOL 1751	
				line 92	SOL 1754	141-142
					EOL 1800	
				line 93	SOL 1804	139-140
					EOL 1809	
				line 94	SOL 1812	137-138
					EOL 1816	
				line 95	SOL 1819	135-136
					EOL 1823	
				line 96	SOL 1826	133-134
					EOL 1832	

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.) Boomer 100 joules .500 ms pulse	
				line 97	SOL 1836	131-132
					EOL 1840	
				line 98	SOL 1844	129-130
					EOL 1847	
				line 99	SOL 1851	106-105
					EOL 1855	
				line 100	SOL 1858	104-103
					EOL 1908	
Boomer		103		Line 101	SOL 1356	85-86
*DATA					EOL	
100 joules				Line 102	SOL102 1410	wp 87 88
					EOL 1421	
				Line 103	SOL103 1425	wp 89-90
					EOL 1444	
				Line 104	SOL 1451	wp 94-93
					EOL 1504	
				Line 105	SOL 1506	wp 96-95
					EOL 1522	
				Line 106	SOL 1524	wp 102-101
					EOL 1534	
				Line 107	SOL 1546	wp 115-116
					EOL 1550	
				Line 108	SOL 1555	113-114
					EOL 1605	

Cruise:		Chief Scientist:		Area:	Page:
Line #	**Tape #**	**JulDay & Date**	**Time GMT**	**Filename**	**Remarks (seismic, nav, problems, etc.)**
		103		Line 109	SOL 1911 wp 111-112
					EOL 1917
				Line 110	SOL 1922 wp 92-91
					EOL 1928
				Line 111	SOL 1934 wp 109-110
					EOL 1942
	Separate Line 112-BAL File Alternate 112A			Line 112A	SOL 1954 wp 104-103
					EOL 2002
				Line 113	SOL 2011 wp 127-128
					EOL 2024
				Line 114	SOL 2028 wp 131 due N°
					EOL 2037
		104	0900 edt		Tuning Elics filters and gain - Large 60Hz noise logging raw elics and processed SEGY BP 600-6000 Hz
		104	1339	line 115	SOL 115 wp 57-58 E→W
			1349		EOL 115
			13~~52~~ 52	line 116	SOL ~~1352~~ 116 wp 55-56 W→E
			1403		EOL 116
			1407		SOL 117 wp 53-54 E→W
			1414		EOL 117

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
		104	1416	Line 118	SOL 118	wp 54-51 SW→
			1422	Line 118	EOL 118	
			1426	Line 119	SOL 119	wp 51-45
			1430		EOL 119	
			1431	Line 120	SOL 120	wp 45-46 N-S
			1438		EOL 120	
			1440	Line 121	SOL 121	wp 46-44
			1445		EOL 121	
			1447	Line 122	SOL 122	wp 44-42
			1454		EOL 122	
			1456	Line 123	SOL 123	wp 42-40
			1502		EOL 123	
			1506	Line 124	SOL 124	wp 40-39
			1511		EOL 124	
			1514	Line 125	SOL 125	wp 39-38
			1516		EOL 125	
			1518	Line 126	SOL 126	wp 38-37
			1522		EOL 126	
			1524	Line 127	SOL 127	wp 37-35
			1528		EOL 127	
			1530	Line 128	SOL 128	wp 35-33
			1533		EOL 128	
			1539	Line 129	SOL 129	wp 33-34
			1543	Line 130	SOL 130	axial line up
			1556		EOL 130	arm

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
		104	1559	Line 131	SOL 131	wp 59-60 N⇒
			1605		EOL 131	
			1613	Line 132	SOL 132	wp 62-61 N⇒
			1617		EOL 132	
			1627	Line 133	SOL 133	
			1630		EOL 133	
			1632	Line 134	SOL 134	
			1635		EOL 134	
			1636	Line 135	SOL 135	
			1641		EOL 135	
			1643	Line 136	SOL 136	
			1648		EOL 136	
			1650		SOL 137	
			1651		EOL 137	
			1656	Line 138	SOL 138	
			1658		circle to restart 138	
			1700	Line 138a	SOL 138a	
			1703		EOL 138a	
			1704	Line 139	SOL 139	
			1707		EOL 139	
			1708	Line 140	SOL 140	
			1714		EOL 140	
			1716	Line 141	SOL 141	
			1719		EOL 141	

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
		104	1722	line142	SOL142	
			1724		wp 2	
			1725		turned north-running	
					axial line	
			1745		EOL142	under bridge
			1748	line 143	SOL 143	wp 63-64 N→
			1749		circle to restart line	
			1804	line143a	SOL 143	wp 68-64
			1809		EOL 143	
			1813		SOL 144	wp 66-65
			1817		EOL 144	
			1825	line 145	SOL 145	wp 82-81
			1833		EOL 145	
			1836	line 146	SOL 146	wp 80-78
			1839		EOL 146	
			1841	line 147	SOL 147	wp 78-76
			1843		EOL 147	
			1845	line 148	SOL 148	wp 76-74
			1848		EOL 148	
			1850	line 149	SOL 149	wp 74-72
			1853		EOL 149	
			1855	line 150	SOL 150	
			1900		EOL 150	
			1902	line 151	SOL 151	wp 70-69
			1907		EOL 151	

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
				LINE 152	SOL 1231	WP 106-132
					EOL 1235	
				LINE 153	SOL 1239	wp 132-135
					EOL 1244	
				LINE 154	SOL 1247	wp 135-140
					EOL 1251	
				LINE 155	SOL 1254	wp 140-143
					EOL 1258	
				LINE 156	SOL 1300	wp 143-162
					EOL 1306	
				LINE 157	SOL 1309	wp 162-161
					EOL 1321	
				LINE 158	SOL 1324	wp 161-152
					EOL 1328	
				LINE 159	SOL 1324	wp 152-148
					EOL 1334	
				LINE 160	SOL 1337	wp 148-146
					EOL 1340	
				LINE 161	SOL 1343	wp 146-163
					EOL 1346	
				LINE 162	SOL 1349	wp 163-164
					EOL 1354	
				LINE 163	SOL 1412	wp 155-156
					EOL 1417	
					ADE AGC for line 163	

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
				LINE 164	SOL 1431	wp 158-157
					EOL 1444	
				LINE 165	SOL 1449	wp 160-159
					EOL 1457	
				LINE 166	SOL 1508	wp 183-158
					EOL 1511	
				LINE 167	SOL 1513	wp [redacted]-178 158
					EOL 1517	
				LINE 168	SOL 1520	wp 178-173
					EOL 1525	
				LINE 169	SOL 1528	wp 173-185
					EOL 1534	
				LINE 170	SOL 1537	wp 185-174
					EOL 1540	
				LINE 171	SOL 1544	wp 174-172
					EOL 1549	
				LINE 172	SOL 1551	wp 172-167
					EOL 1558	
				LINE 173	SOL 1559	wp 167-165
					EOL 1605	