



COASTAL AND MARINE SCIENCE AT THE
WOODS HOLE FIELD CENTER (WHFC)

384 Woods Hole Rd., Quissett Campus, Woods Hole, MA 02543-1598

01007105093
HSBT



01007isi.pdf

ISIS LOG

SHIP AND CRUISE: Houseboat 200

HSBT 01007

AREA: Lake Mead

DATES: 1 April - 26 April 2001

CHIEF SCIENTIST: D. Twichell + M. Rudin (UNLV)

Cruise: 2		Chief Scientist:		Area:		Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
1		91	2108	L1F1	Start logging	
				range 750.1	-12 db output on subbottom	
					Gain: port 15db sub 15 db	
					Gain: subbot 18db	
					Recording: QMIB-16 bit-	
					2048 samples	
					Antenna offsets not done yet.	
					Antenna offset = 8.6 m	
					Layback ~17.5 m, slant ~18.0 m	
			2146		Abrupt C/L to avoid Cormorant Rk	
			2245	L1F1	EOL	
* see note in navigation log regarding offsets.						
2		94	1624	L2F1	SOL 2 sidescan gain 12	
				L2F2	subbot gain 15	
2			1625	L2F2	ISIS locked up.	
					manual slant = 18.1 m	
					layback = 17.85	
					range = 750 m	
					Fish depth = 10 ft ± 3 m.	
			1632		ISIS locked - reboot	
2			1842	L2F3	SOL 2 - at beginning of line	
			1858		PORT (MANKL) NOISEY from	
					SEA SEVERE @ LINK UNTIL NOW	
2			2028	L2F3	EOL	

Cruise:		Chief Scientist:		Area:		Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
3		94	2029	L3F1	SOL LINE 3 750m range	
			2130	L3F1	EOL 3 - Muddy River Δ	
4			2134	L4F1	SOL LINE 4	
			2236		EOL Line 4	
5			2236	L5F1	SOL LINE 5 750m range	
5		95	0045		EOL 5	
		95			Gains changed on ISIS to 9db on sidescan & subbottom 12db	
6		95	1516	L6F1	SOL 6	
			1607		STBD channel dropped out	
			1612	end L6F1	bringing fish aboard to check STBD channel as it is not firing	
6	6 April	96			subbottom power = 12 gain = 12db sidescan gain = 9 + 9db	
6		96	1751	start L6F2	start logging - 1 sec fire rate STBD side appears very weak.	
			1920		EOL 6	
7			1921	start L7F1	SOL 7 750 m range	
			1957		EOL 7	
8			1958	L8F1	SOL 8 changed to 397m range 0.530s fire	
			2037		EOL 8	
					change STBD gain to 12db 15db	
9			2043	L9F1	SOL 9 397 m range	
			2129	L9F1	EOL 9	

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
10		96	2136	L10F1	SOL 10	397 m range
			2211	L10F1	EOL 10	
11			2212	L11F1	SOL 11	397 m range
			2256	—	EOL 11	END NAV LOG
12	Apul 12001	98	1411	L12F1	SOL 12	0.530 fire rate 397 m range GAINS port 9 stbd 15
			1504		EOL 12	
13			1510	L13F1.DAT	SOL 13	397 m range
			1612		EOL 13	
14			1620	L14F1.DAT	SOL 14	397 m range
			1751		EOL 14	
15			1756	L15F1.DAT	SOL 15	ca L15F2 ^{397m range} reached a max. file size
			2031		EOL 15	
16			2039	L16F1.DAT	SOL 16	397 m range
			2307		EOL 16 (L16F1) MGMT OSE (L16F2.)	
Lines 15 & 16 each have an					F2 - the file size limit	
of 200 MB was on & it					had an automatic switch.	
17			2312	L17F1	SOL 17	397 m range
17	00118		0113	L17F1	EOL 17	
18		99	1407	L18F1	SOL 18	stbd gain 15 dB port gain 9 dB
			1457		EOL 18	397 m range
19			1502	L19F1	SOL 19	397 m range
			1550		EOL 19	

Cruise:		Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)
20		99	1555	L20F1	SOL 20 397 m range
			1720		EOL 20
21			1725	L21F1	SOL 21 397 m range
			1859		EOL 21
22			1903	L22F1	SOL 22 397 m range
			1916		NAV (CRASH) OKSPOT LMS
			1934	L22F2	SOL 22F2 after crash
			2105	L22F2	SOL 22 / SOL
23			2109	L23F1.DAT	SOL 23 / SOL 397 m range
			2116		slow down to check to see if something is snagged on fish
					Back up to speed
24			2203	L24F1	SOL 24 397 m range
			2324		EOL 24
25		100	1738	L25F1.DAT	SOL 25 397 m range
			1904	L25F1.DAT	SOL 25
26			1908	L26F1.DAT	SOL 26 397 m range
			2052		SOL 26 SOL
27			2057	L27F1.DAT	SOL 27 / SOL 397 m range
27			2215	"	SOL 27 / SOL
28			2220	L28F1.DAT	SOL 28 / SOL 397 m range
			2342		SOL 28 / SOL
					EODay

Cruise:		Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)
29		101	1511	L29F1	SOL L29 stbd 15db port 9db
			1554		EOL 29 397 m range
					pulled gear - too rough
30	April 12	102	1602	L30F1	SOL L30 - FALSE START
					these gains are changed from the previous days
			1609	L30F2	DON'T PROCESS SOL 30 port gain 9 stbd gain 9
			1627		SOL 30 397 m range
			1628	L31F1	1.745K 5000
31			1629	L31F2	SOL 31 DOORSS - 12 STBD = Q
32			1632	L32F1	SOL 31 SOL 32 397 m range
					SS PORT SIDE "JITTERY" AND 2
					Silence FORTY BOTTOM TENCH. (PWR)
			1649		CHANGE SS GAINS 6 db
			1718	L32F1	SOL 32 MARKS & (NO) TO (NO) TO
33			1724	L33F1.DAT	SOL 33 change effects line 33 NO 32
			1812		lost stbd channel - still there
					but getting down here 56.3
			1916	L34F1.DAT	SOL 34 397 m range
34			1918	L34F1.DAT	SOL 34 SOL 397 m range
			1943	LOST	GENERATOR
			2002	L34F2	SOL L34F2 397 m range
			2151		EOL 34
					change stbd gain to 9db
35			2155	L35F1	SOL 35 397 m range
			2245	L35F1	SOL 35

JD 103

Cruise:		Chief Scientist:		Area:		Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
36		21 Oct 13 103	1622	L36FI.ONT	SOL 36 / SOL	port gain 6db stbd gain 9db
			1710		c/c pily 5479	
			1724		KOL 36 / SOL	
37			1726	L37FI.DAT	SOL 37	397 m range
1			1815	L37FI.ONT	SOL 37	
38			1819	L38FI.ONT	SOL 38	397 m range
1			1904	1	SOL 38	
39			1904	L39FI.ONT	SOL 39	397 m range
1			1935	1	SOL 39	
40			1940	L40FI.ONT	SOL 40	397 m range
1			2005	1	SOL 40	
41			2010	L41FI.ONT	SOL 41	397 m range
1			2031	1	SOL 41	
42			2037	L42FI.ONT	SOL 42	397 m range
1			2055	1	SOL 42	
43			2100	L43FI.ONT	SOL 43	397 m range
1			2115	L43FI.ONT	c/c	
			2147	1	SOL 43	
44			2152	L44FI.ONT	SOL 44	397 m range
1			2248		SOL 44	
45			2253	L45FI.DAT	SOL 45	397 m range
			0013	1	SOL 45	
						397 m range
46	2001	104	1535	L46FI	SOL 46	port gain 6 stbd gain 9
			1633		1515 / NAV	clock 6 off

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
46		01/04/14	1644	L46FI.DAT	SOL 46	
1			running	TKS		
TKS					CHANGES SKIPPING: 1637/1024	
					200m range 0.25 SIC	
			1647	TKS2.DAT	SOL	
			1649	"	SOL	
			1650	TKS2.DAT	750m range (15ke) Sol	
			1654		2048 PPMs	
			1654		RETURN TO ORIGINAL SKIPPING TEST OVER	
47			1658	L47FI.DAT	SOL 47 397m range	
1			1701		SS/NAV Times OK	
1			1814		SOL 47 / 150P	
48			1819	L48FI.DAT	SOL 48 / SOL 397m range	
1			1953	1	SOL 48	
49			1958	L49FI.DAT	SOL 49 397m range	
1			2115	1	SOL 49 Times	
50			2120	L50FI.DAT	SOL 50 (ISIS/NAV TKS NAVS)	
1			2216	1	SOL 50 397m range	
51			2221	L51FI.DAT	SOL 51 397m range	
1			2309	1	SOL 51	
52			2313	L52FI	SOL 52 (ISIS/NAV) (Checks OK)	
1			2350	1	SOL 52 397m range	

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53		105	1350	L53FI	SOL	port gain 6db stbd gain 9db
1			1521	1	EOL 53	397 m range
54			1521	L54FI.DAT	SOL 54	397 m range
1		+6	1650	1	EOL 54	
55			1650	L55FI.DAT	SOL 55	397 m range
1			1823	1	EOL 55	
56			1828	L56FI.DAT	SOL 56	397 m range
1			1936	1	EOL 56	
57			1937	L57FI.DAT	SOL 57	397 m range
1			2022	1	EOL 57	
58			2027	L58FI.DAT	SOL 58	(nm) 1815 OK
1			2153	1	EOL 58	397 m range
59		106	2106	L59FI.DAT	SOL 59	port gain 6 stbd gain 9
			2240		EOL 59	397 m range
					looping to start next line	
60			2243		SOL 60	397 m range
			0003		EOL 60	
61			0005		SOL 61	397 m range
			0101			
			0116		EOL 61	
62		107	1526	L62FI	SOL 62	port gain 6db stbd gain 9db
1			1620	L62FI.DAT	EOL 62	397 m range
63			1624	L63FI.DAT	SOL 63	397 m range

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63		10417 107	1649	L63FI.DAT	EOL 63
64			1655	L64FI.DAT	SOL 64 397 m range
1			1723	1	EOL 64
65			1725	L65FI.DAT	SOL 65 397 m range
1			1750	1	EOL 65
66			1754	L66FI.DAT	SOL 66 397 m range
1			1937	probably recording wrong by file	Just noticed that ISIS has date as 16 April + it should be 17 April
			1949	L66FI.DAT	EOL 66
			2005	L67FI.DAT	SOL 67 397 m RANGE
			2110		EOL 67
			2113	L68FI.DAT	SOL 68 397 m range
			2321		EOL 68
TVG1		108	1940	TVG1.DAT	SOL TVG port gain 3 std gain 3
			194354		made sure all TVG set to STD
			194430		go to auto tvg
			1946		STANDARD TVG
			1951		switched to half sec
			2008		EOL TVG1
					all setting put back - TVG standard
69	1500m swath		2010	L69FI	SOL 69
			2034		EOL 69
70			2043	L70FI	SOL 70 1500 m swath

* appears that JD109 had port & stbd gains @ 3db

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		108	2109		EOL 70
71		108	2111		SOL 71
1			2144		EOL 71
72		109	1559		SOL 72
1			1607	L7219109	System seems to Bk missing PINGS every 40-50 PINGS
			1616	L72F1	SOL 72 REBOOT 1515
73			1621	L73F1	SOL 73
			1623		Reboot LINK
			1628	L73F2	RESTART LINK 73
			1644		PTA ROLL MAKING WORKING
			1648		SOL 73
74			1701	L74F1	SOL 74
1			1741	P 2393	c/c, but still line 74
			1827	L74F1	EOL 74
75			1833	L75F1	SOL 75
			1923	P 2947	c/c - dogleg
			2001	P 5221	c/c - dogleg
			2010		SOL 75
76		112	1412	L76F1	SOL 76 1500m swath
			1418	L 3db stbd	BACKLINE NOW GAINS
					GAINS UP FROM 3db TO 6db
			1927	L76F2	SOL 76 / END FILLS (OK 1420 PINGS)
76			1928	L76F3	SOL 76

SS SKETCHES 112 70m sup/FRES 16 BIT / 2048

SS GAINS - 6db ANT
6db STBD

Cruise:		Chief Scientist:		Area:		Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
76		01/01/22	1529	L76F1	EOL 76 / 80F	
77			1534	L77F1.DAT	SOL 77 / 80F 750m range	
			1549	1	XOVERS Hooked WONG (?)	
					PORT & STBD Channels	
					DUNNISON LINKS 76F1	
			1632		KOL 77 PULL FISH REVERSE CHANNELS	
					SWAP PORT & STBD cable	
					going into the bottle	
			1702		XOVERS SWITCHING CHANNELS	
					DUGHT (PORT IS PORT)	
78			1708	L78F1.DAT	SOL 78 750m range	
			1804	1	EOL 78	
79			1812	L79F1.DAT	SOL 79 80F 750m range	
			1812		DIGITIZER LONG LOCK ON	
					STARTUP 1916. WND TOWARD	
			1908		KOL 79	
80			1915	L80F1.DAT	SOL 80 750m range	
			1952	Ping 2259	slight c/c in line 80	
			2002	Ping 2823	slight c/c	
			2006	L80F1.DAT	KOL 80	
			2021	L81F1.DAT	SOL 81 / STOP RND DIGITIZER	
			2022	L81F2.DAT	SOL 82 750m range	
			2107		KOL 81	
82			2113	L82F1.DAT	SOL 82 750m range	
			2130	1	KOL 82	

Cruise:			Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
83		113 01/09/88		L83F1.DAT	SOL83	
1		2139	→	118-2139	SOL83	750m range
1		2241	→	118-2139 AM	BOL83	
84		2254	→	L84F1.DAT	SOL84	397m range ^{that was line}
1		113	0035	1	BOL84	
			23	APRIL 2001		
85		113	1441	L85F1.DAT	SOL85	750m range
1			1551	1	BOL85	
86			1555	L86F1.DAT	SOL86	750m range
1			1611	Ping 1001	gentle c/c	
1			1654	1	BOL86	
87			1710	L87F1	SOL87	750m range
1			1731	1	BOL87	
88			1739	L88F1.DAT	SOL88	750m range
1		1801	1801	1	SOE BOE (6015)	
1		1	1851	L88F2	SOE/BOE (ORIGINAL LINE)	
1			1851	L88F3	SOE/CONTINUED LINE 88	
1			1855	1	BOL/BOE	
89			1907	L89F1.DAT	SOL89	75m range
1			1953	1	BOE/BOE	
90			2001	L90F1.DAT	SOL90	SOE 750m range
			2029	1	AMISIS - HYPACK times good	
			2054	1	BOL90	

JO 113 SS-CMS SUB POSIT - 9dB FILES
 POST GdB 750 RANGE Amps 16 BIT/2048 samples
 STOPS GdB
 SW 12cm chirp L=24ms

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Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)	
91		01/04/23 113	2103	L91F1.DAT	SOL 91 750m range	
		113	2201		EOL 91	
92			2205	L92F1.DAT	SOL 92 750m range	
1				1	Bonnelli Bay	
			2251		SOL 92	
93			2250	L93F1.DAT	SOL 93	
1			2329	P1972	Start day leg	
			2333	P2215	End day leg	
			2345	L93F1.DAT	SOL 93	
94	01/04/24	114	1733	L94F1.DAT	SOL 94 750m range	port gain 6db stbd gain 6db
1			1919	1	SOL 94	
95			1925	L95F1	SOL 95 750m range	
			1929	L95F2	restoring line - funny noise in far field	
			1929		EOL 95F1	
			1935	L95F2	SOL 95	
					on line ping 85	
			2045		EOL 95	
96			2046	L96F1	SOL 96 - transit to next line	- DO PROCESS
					750m range	
			2101		EOL 96	
97			2106	L97F1	SOL 97 750m range	
			2122	P938	c/c - day leg	
			2200		EOL 97	
98			2205	L98F1	SOL 98 750m range	

JP 114

SUB

GAIN 12

POWER - 9

SS GAINS

PORT 6 STBD 6

16311/2018 SN-PLS 750m RANGE

Cruise:		Chief Scientist:		Area:	Page:
Line #	Tape #	JulDay & Date	Time GMT	Filename	Remarks (seismic, nav, problems, etc.)
98		114	2248	L98F1.ONT	SOL 98
99		1	2259	L99F1.ONT	SOL 99
1		115	0020	1	SOL 99
100			0026	L100F1.ONT	SOL 100
1			0041	1	SOL 100
101			0047	L101F1.ONT	SOL 101
1			0112	1	SOL 101
1			0112	1	RWD NMN LOGGING
102		115	1552	L102F1.ONT	SOL 102 750m range
			1605		ENGINE DIED - STOPPED LOGGING
102			1757	L102F2	SOL 102 750 m range
1			1835	1	SOL 102
103			1841	L103F1	SOL 103 750 m range
1			1920	ping 2306	CC
1				P 300	
1			1932	P302D	C/C
1			2008	L103F1	SOL
104			2019	L104F1.ONT	SOL 104 750 m range
			2048		SOL 104
105			2054	L105F1	SOL 105 Funky lines
1			2054		SOL 105F1 restart
1			2054	L105F2	SOL 105
1			2126	1	SOL 105

TD 115

SS GAINS 6
 DOW 6
 STRO 6

SUB CHIN 12
 SUB POWER - 9PB
 750m range

16317/2048

[illegible]

A\$JHISNEVG? 10 h J