

GEOPHYSICS LOG

R/V R. J. RUSSELL

LACROSS III CRUISE

Jun 30 1983 - July 5, 1983

RUSS
98016 104324
LACROSS III

L A COSS June 1983

SHIP/CRUISE NO./LEG RV R3 Russel -
CHIEF SCIENTIST

LINE	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
START						
END						
		83-6-30			Northstar 6000 Morrow Plot T. Form	ORE Boomer / EGG 234 @ 100 J
		83-6-30			" "	Data Sonics
	0845	" " "			" "	EGGF 200 J
SS-1	0853	" " "	180°		" "	ORE Boomer / EGG 200 J
"	"	" "	" "	" "	" "	Data Sonics
"	0903	" "	" "	" "	" "	ORE
"	0917	" "	" "	950	" "	"
SS-1	1136	" "				3.5 DATA Sonics
EOL SS-1	1142					
SOL SS-2	1144					2005 ORE Boomer EGG-234
SS-2	1144					DATA SONICS
1220 EOL2	1220					
SOL3	1222					ORE Boomer - EGG-234
	1222					DATA SONICS SBT 220
	1258					
	1315	83-6-30			" "	" "
SS-4 SS-3	1323	" "			" "	" "
	1334	" "			" "	" "
SS-5 SS-4	1422	" "			" "	" "
SS-6 SS-5	1446	" "			" "	" "
SS-5	1528	" "	CC		" "	" "
	1540	" "	CC		" "	" "
SS-5	1556	" "	CC		" "	" "
	1608		C/C	TO	180°	
	1632					
	1641					
	1649					
	1708					
	1710					
EOL SS-5	1744					

AREA La. Coastal
 TIME ZONE _____

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO.		DATA ROLL #		MAGNETICS	COMMENTS
			START	END	START	END		
1/8 sec	.5 sec. Five	500-2 K	1	/	1	/		Boomer 300-5K on Tape
1/8 sec.	1/8 sec Five	2K Band	1	/	1	/		
1/8	ORE 1/4 sec							ORE-45 FG36 to 200 J
1/8	ORE 1/4 sec	500-2 K	1	/	1	/		SOL SS-1
1/8	1/8	2K Band	1	/	1	/		" "
1/8	1/4	700-2K	1	/	1	/		change filter settings
"	"	"	1	/	1	/		CC SPD 950 RPM
1/8								GAIN DOWN ON 3.5K IF 2
								1400' ON TAPE EOL SS-1
1/8	.25 FIRE	700-2K	300-5000 ON TAPE ON PAPER					SOL SS-2
1/8	1/8 FIRE	2K Band	1	/	1	/		TAPE #1
								EOL SS-2
1/8 SWP	.5 FIRE	300-5000 700-2000	TAPE PAPER -					SOL SS-3 TAPE #1
1/8 SWP	1/8 FIRE	2K BAND	2	/	2	/		START ON Roll # 2 PAPER
			2	/	1	/		END OF TAPE #1 TAPE #2 ON 1228
1/8	.25 Five	700-2K	2	/	2	/		Boomer off 1315 -
"	"	"	2	/	2	/		EOL SS-3 SOL SS-4
"	"	"	"	/	"	/		Boomer off momentarily
"	"	"	"	/	"	/		EOL SS-4 SOL SS-5
"	"	"	"	/	"	/		EOL SS-5 SOL SS-6
"	"	"	"	/	"	/		CC to miss TNT
"	"	"	"	/	"	/		Turn to pick up line ^{after} TNT
"	"	"	"	/	"	/		On line again
"	"	"	"	/	"	/		C/C only to 180
								Boomer off to lens
								Boomer ON.
								Reduce Speed to 850 RPM
								END of TAPE #2 EOL 3200
			3	/	2	/		START of TAPE #3

SHIP/CRUISE NO. /LEG LACROSS JUNE 83
 CHIEF SCIENTIST

LINE	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
SOL 556	1746		270°		LORAN C PORTHSTAR	ORE BOOMER - EGG-234 200J DATA SOWICS SST 280 3.5 KHZ
SS-6	1815		280°			
	1818					
EOL 556	1821					
SOL 557	1824		350°			
	1910					
	1925					
	1930					
	1956					
SS-7	2011					
EOL 557	2044					
SOL 558	2045		260°			
	2059					
SS8	2118					
	2119					
EOL 558	2145					
SOL 559	2146		180°			
	0000	83-7-1			" "	" "
	0010	"			" "	" "
EOL 559	0113	"			" "	" "
SOL 5510	0114	"			" "	" "
	0126	"			" "	" "
EOL 10	0159	"			" "	" "
SOL 5511	0159	"	350		" "	" "
	0216		350		" "	" "
	0237				" "	" "
SS-11	0400				" "	" "
EOL	0409					
SS-11						

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SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO.		DATA ROLL #		MAGNETICS	COMMENTS
			START	END	START	END		
1/8	.5 sec fine	2000-700 5000-300	PAPER					Tape 3 CONT. Paper Roll 2
1/8	1/8 fine	2K BAND	TAPE					" " CONT.
	SAME AS ABOVE							ON LINE
					3			START of Roll # 3
								ON LINE SS-7
								ON LINE SS-7
								TAPE off for 30 sec.
1/8	1/8	2K BAND						GAIN change on 3.5 KHZ
								GAIN change on 3.5 KHZ
								EOL SS-7
								SOL SS-8 ^{INCREASE} speed by 50 RPM
					3			GAIN change on 3.5 KHZ
					4			END of TAPE # 3
								START of TAPE # 4
1/8	same	same	4		3			ON Line SS-9
"	"	"	"		4			change toll START Roll 4
"	"	"	1		"			EOL SS-9
"	"	"	4		4			SOL SS-10
"	"	"	5		"			change Tape
"	"	"	"		"			EOL SS-10
"	"	"	"		"			SOL SS-11
"	"	"	"		"			Reduce SPD TO 850 RPM
"	"	"	"		"			INCREASE GAIN 3.5 KHZ
"	"	"	"		"			CHANGED TO NAV. TAPE # 2

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SHIP/CRUISE NO. /LEG
CHIEF SCIENTIST

LINE	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
START	END					
SOL 55-12	0412	830701	300		NONASTAR LORAN	ORE Boomer - EGG 23Y 200J
	0510				" "	DATASONICS 3.5 KHZ
EOL 55-12	0534					
SOL 55-13	0536	830701	210			
	0539					
	0540					JD-182
SS 13	0556					
	0600	"	270		"	"
EOL 13	0656	"			"	"
SOL 14	0657	"			"	"
EOL 14	0858	"			"	"
SOL 15	0859				"	"
	0947	"			"	"
EOL 15	0947					
	0950					
SOL 16	0950		203			
	0958					ORE Boomer .25 Sec Key
	1020					
SS-16	1030					
EOL 55-16	1121					
SOL 55-17	1122	830701	280	3.8	LORAN-	ORE Boomer - EGG 23Y 200J
	1127		265			DATA SONICS 2.5 KHZ
EOL 55-17	1159					
SOL 55-18	1203		014			
EOL 55-18	1343				"	" "
SOL 55-19	1344		290		"	" "
	1353				"	" "
	1413					
	1534					

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TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO.		DATA ROLL #		MAGNETICS	COMMENTS
			START	END	START	END		
1/8	.5 Sec.	2000-700 5000-300	PAPER TAPE 5		4			SOL 5512
1/8	1/8							ON LINE 5512 EOL 55-12
			5		4			SOL 55 13 END OF TAPE 5
			6		4			START TAPE 6
			6		5			PAPER CHANGE ROLL # 5
"	"	"	"		"			C/C TO 270
"	"	"	"		"			EOL 55-13
"	"	"	"		"			SOL 55-14
"	"	"	"		"			EOL 55-14
"	"	"	"		"			SOL 55-15
"	"	"	7		"			Change Tape EOL 55-15
								BELT CHANGE IN 3200 SOL 55-16
1/8	.25 Sec.							CHANGED KEY RATE ON 3.5KHZ TO CHANGED BELT. EOL 55-16
								SYNCH. BOOMER TO 3.5KHZ ON LINE 55-16 EOL 55 16
1/8	.5 FIRE	2000-700 5000-300	PAPER -TAPE					SOL 55-16
1/8	.25 FIRE.	2 K BAND						CC TO 265° END OF PAPER ROLL # 5
					5 END START 6			SOL 55 18 ROLL # 6 EOL 55 18
"	"	"			"			SOL 55 19
"	"	"	8		6			END OF TAPE # 7 RPM TO 950 EOL 55-19 954' ON TAPE # 7

SHIP/CRUISE NO. /LEG
CHIEF SCIENTIST

LINE	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
START END						
		83-7-2			LORAN/MORROW Plot	ORE Boomer @ 200 J Data Series 3.5 @ 10KHz
SOL SR-1	0907	"	335		"	"
EOL SR-1	0941					
SOL SR-2	0942		275°			
EOL SR-2	1027	"			"	"
SOL SR-3	1028	"			"	"
SR-3	1032	"			"	Boomer 300 J
SR-3	1041					
EOL SR-3	1106					
SOL SR-4	1108		295°			
SR-4	1130		295°			
EOL SR-4	1142					
	1143					
SOL SR-5	1145		25°		"	"
EOL SR-5	1226				"	"
SOL SR-6	1229		285		"	"
SR-6	1252	4.2	285			
EOL SR-6	1304		285			
SOL SR-7	1306					
SR-7	1335		205	5.1		
SR-7	1343					
SR-8	1345		335	5.0		
SR-8	1356		345	5.0		
EOL SR-8	1407				"	"
SOL SR-9	1410		105		"	"
SR-9	1537				"	"
EOL SR-9	1557				"	"
SOL SR-10	1559				"	"

AREA
TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO.		DATA ROLL #		MAGNETICS	COMMENTS
			START	END	START	END		
1/8 s	1/4 sec fire	700-2K 2K Board	8		6		None	start of Day
"	"	"	"		"		—	954' on tape #8 SOL SR-1 EOL SR-1
								SOL SR-2
"	"	"	"		"			EOL SR-2
"	"	"	"		"			SOL SR-3
"	Boomer 1/2 sec	"	"		"			300 J 1/2 sec Fire Boomer off 1 MIN. EOL SR-3
								SOL SR-4
			9		6			START TAPE #9 EOL SR-4
			9		7			change paper SOL SR-5
"	"	"	"		"			EOL SR-5
"	"	"	"		"			SOL - SR-6 adj power cable ADJUST Boomer TOW EOL SR-6
			9		7			SOL SR-7 ON Line SR-7 EOL SR-7
								SOL SR-8 c/c TO 345
"	"	"	"		"			EOL SR-8
"	"	"	"		"			SOL SR-9
"	"	"	10		7			Change Tape
"	"	"	"		"			EOL SR-9
"	"	"	"		"			SOL SR-10
			2605					END of SR-10 + DAY

SHIP/CRUISE NO. /LEG
CHIEF SCIENTIST

LINE	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
SR-11	1857					Data Sources - Tow depth 1m
SOL SR-11	1858	88-8-2	276		Loran / Morrow Plot	ORE Bomber @ 300J
SR-11	1909					
EOL SR-11	2011					
			198			
SOL SR-12	2012	8307-03	276		LORAN-Plotted-TRM	3.5 + Geopulse
SR-12	2045		198			
SR-12	2115					
SR-12	2130					
SR-12	2230					
SR-12	2300					
EOL SR-12	2303					
SOL 13	2305	860703	285	3.6		
SR 13	2330					
EOL 13	2336		285	3.1		
SOL SR-14	2339		000	4.6		
SR-14	0006	83-7-4	025		"	"
SOL SR-15	0009		025	4.8	"	"
	0142				"	"
EOL SR-15	0147					
SOL SR-16	0148		290		"	"
SOL SR-16	0222					
SOL SR-17	0223		200		"	"
SR-17	0413					
SOL SR-18	0415				"	"
SR-18	0447				"	"
EOL SR-18	0509				"	"
SOL SR-19	0509		15		"	"
SR-19	0552		"		"	"
SR-19	0630		019		"	"
EOL SR-19	0632					

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TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO.		DATA ROLL #		MAGNETICS	COMMENTS
			START	END	START	END		
1/8	.25 sec five	2K Band						1957 Tape CH3 now 10KHz Data Source CH5 now combined sig
1/8	.50 sec five	300-5K 700-2K	Tape Paper	10		7		SOL SR-11
1/8								SPD INCREASE TO 950 RPM
								EOL SR 11
								0 00
1/8	.25 3.5K 4 .50 Geopulse	2K BAND - 700-2K	PAPER	300-5000		TAPE		950 RPM SOL SR 12
				10		7		SR-12
				10		7		ON LINE SR-12
				11		7		END OF TAPE #10 TAPE 11 ON
				11		7		SR-12
								ON LINE SR 12
								EOL SR 12
				11		8		PAPER ROLL # 8 SOL SR 13
								GAIN CHANGE DOWN TO 115 DATA SONICS
								EOL SR 13
				11		8		SOL SR 14
"	"			"		"		EOL SR 14
"	"			"		"		SOL SR-15
"	"			12		8		change Tape
								EOL SR-15
"	"			"		"		SOL SR-16
								EOL SR-16
"	"			"		"		SOL SR-17
								EOL SR-17
"	"			"		"		SOL SR-18
1/8	1/4			11		11		Belt Change
"	"			"		"		EOL SR-18
"	"			"		"		SOL - SR-19
"	"			13		11		change Tape
				13		8		ON LINE SR 19
				13		8		EOL SR-19

SHIP/CRUISE NO./LEG

CHIEF SCIENTIST

LINE	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
START END						
SR-20	0					DATASONICS 3.5 KHZ
SOL SR-20	0633		292	4.1		ORC BOOMER EGG 234 300J
SR-20	0640		295	4.1		
EOL SR-20	0645					
SOL SR-21	0646	830704	283	4.1		
SR-21	0655		213	4.0		
SR-21	0730					
EOL SR-21	0731	830704	213	4.1		
SOL SR-22	0732		330	4.4		
SR-22	0800		334	4.9		
EOL SR-22	0820		335	4.9		
SOL SR-23	0822		245	4.2		
EOL SR-23	0835		245	4.2		
SOL SR-24	0837		156	3.7		
SR-24	0900					
EOL SR-24	0913					
SOL SR-25	0915		315			DATASONICS 3.5 KHZ
	0918		249			ORC BOOMER EGG 234 300J
SR-25	0925		249			
	0950		240	4.7		
	1000					
	1001		243	4.6		
EOL SR-25	1007					
SOL SR-26	1017		308			
	1012		308	4.9		
EOL SR-26						

AREA

TIME ZONE

SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO.		DATA ROLL #		MAGNETICS	COMMENTS
			START	END	START	END		
Y/B	.25 fine	2K BAND						
Y/B	.50 fine	300-5K TAPE 700-2000 PPM	13		8			SOL SR-20
			13		8			ON LINE SR-20
								EOL SR-20
			13		8			SOL SR-21
			13		8			ON LINE SR-21
								ON LINE SR-21
			13		8			EOL SR 21
			13		8			SOL SR 22
			13		8			ON LINE SR-22
								EOL SR 22
								SOL SR-23
								EOL SR-23
			13		8			SOL SR-24
			13		8			ON LINE SR-24
			13		8			EOL SR-24
Y/B	.25 FINE							
Y/B	.50 FINE		13		8			SOL SR-25
								C/O TO 249
								ON LINE SR-25
								ON LINE SR-25
			13		8			TAPE change 13 TO 14
			14		8			Tape # 14
			14		9			CHANGED BIT & PAPER
			14		9			SOL SR-26
								EOL SR-26

NO GAIN
ADJUST
0800

SHIP/CRUISE NO. /LEG
CHIEF SCIENTIST

LINE	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
START END						
SOL SR-27	1027	83/07/64	072	4.6	LOANU "C" MARRAW PLOT	"
SR-27	1055	"			"	
EOL SR-27	1155	"			"	"
SOV SR-28	1156	"	188		"	"
EOL SR-28	1317	"			"	"
SOV SR-29	1320	"	110		"	"
SR-29	1410	"	"		"	"
SR-29	1441	"	"		"	"
SR-29	1500	83 07 04	109	3.9		
SR-29	1530		110	4.0		
SR-29	1640			4.1	"	"
EOL SR-29	1730					
SOL SR-30	1734	830704			"	"
SR-30	1810		045°			
	1826		035	4.6		
EOL SR-30	1843		029	4.4		
SOL SR-31	1845		125°	3.9		
EOL SR-31	1921	"			"	"
SOV SR-32	1923	"	225		"	"
EOL SR-32	2037	"			"	"
SOV SR-33	2038	"			"	"
SR-33	2111	"			"	"
EOL SR-33	2120	"			"	"
SOV SR-34	2123	"	35		"	"
SR-34	2137	"			"	"
EOL SR-34	2222	"			"	"
SR-35	2224	"			"	"
SR-35	2310		35	4.1		
EOL SR-35	2311					
SOV SR-36	2312		215		"	"
SR-36	0000	830705				

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SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO.		DATA ROLL #		MAGNETICS	COMMENTS
			START	END	START	END		
1/8	"	"	14		9			SOL SR-27
"	"	"	"		"			ON LINE SR-27
"	"	"	"		"			EOL SR-27
"	"	"	"		"			SOL SR-28
"	"	"	"		"			EOL SR-28
"	"	"	"		"			SOL SR-29
"	"	"	15		9			Change Tape
"	"	"	"		"			Belt Change
								INCREASE GAIN TAPE #4
								ON LINE SR-29
"	"	"	15		9			ON LINE SR-29
								EOL SR-29
1/8			15		9			SOL SR-30
								ON LINE SR-30
			16		9			CHANGED TO #16 TAPE
								EOL SR 30
								SOL SR-31
"	"	"	"		"			EOL SR-31
"	"	"	"		"			SOL SR-32
"	"	"	"		"			EOL SR-32
"	"	"	"		"			SOL SR-33
"	"	"	"		10			Change Paper
"	"	"	"		"			EOL SR-33
"	"	"	"		"			SOL SR-34
"	"	"	"		"			Belt change
"	"	"	"		"			EOL SR-34 SOL SR-35
"	"	"	17		"			Change to Tape 17
								ON LINE 25
								EOL SR-35
"	"	"	17		"			SOL SR-36
			17		"			ON LINE SR 36

SHIP/CRUISE NO. /LEG

CHIEF SCIENTIST

LINE	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM
START END						
SR-36	0020	830705				3.5, Boomer
^{EOL} SR-36	0022					
	0030					
SS-76	0203					
^{SOL} SS-70	0210	830705	152	4.2		3.5, Boomer
SS-70	0210					Boomer
SS-20	0217					
SS-70	0229					3.5KHZ WAS. 1.5 meters below WATER - AOT TO 1 meter
SS-20	0321	83-7-5	11		chg nav. tape	
SS-20	0425	"			"	
^{EOL} SS-20	0428	"			"	"
^{SOL} SS-21	0429	"	350		"	"
^{EOL} SS-21	0618					
^{SOL} SS-22	0619	"			"	"
SS-22	0623	"			"	"
^{EOL} SS-22	0648	"			"	"
^{SOL} SS-23	0650	"	169	4.1	"	"
SS-23	0800		167	4.1		
SS-23	0832					
SS-23	0833		167			
SS-23	0855					
	0900					
^{SOL} SS-24	0900		080	4.0		
^{EOL} SS-24	0915					
^{SOL} SS-25	0916					
SS-25	0935					
SS-25	1010					
SS-25	1030		350	3.9		
	1031					

AREA
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SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO.		DATA ROLL #		MAGNETICS	COMMENTS
			START	END	START	END		
			17		10		—	ON LINE SR-36
			17		10			EOL SR-36 1000'
			17		10			Picked up bear HAULING to SHIP SHOWL
			17		10			EQUIP IN WATER
YB	Y4sec fine	2K	17		10			SOL SS-1 (207) ^{TAPE} 1025'
YB	.55sec fine	700-2000 300-5000	PAPER TAPE					MOVED BATH DATA DOWN ON RECORD ADJ DEPTH TO 1 METER
"	"	"	17		10			change Nav Tape
"	"	"	18		10			change tape #18
"	"	"	"		10			EOL SS-20
"	"	"	18		10			SOL SS-21
								EOL SS-21
"	"	"	"		10			SOL SS-22
"	"	"	"		10			change belt
"	"	"	"		10			EOL SS-22
"	"	"	"		10			SOL SS-23
								ON LINE SS-23
			18		10			END OF TAPE # 18
			19		10			START OF TAPE # 19
			19		10			EOL - SS-23
			19		11			SOL SS-24 CHANGED ^{PAPER} BELT
			19		11			EOL SS-24
			19		11			SOL SS-25
			19		11			ON LINE SS-25
								ON LINE SS-25
								ON LINE SS-25
								SHUT DOWN STD ENGINE STARTED UP PORT ENGINE

