GYRE 82-G-11 #82034sei
GEOPHYSICS
LOGBOOK

Chief Sci. - Frank Mannheim

101504

U.S.G.S.
GEOPHYSICS
LOG

SHIP R/V GYRE

CRUISE NO. 82-G-11

DATE 18 SEP - 28 SEP 1982

CHIEF SCIENTIST F.T. MANHEIM

SHIP/CRUISE NO./LEG GYRE 82-G-11

CHIEF SCIENTIST F.T. MANHEIM

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD Kts.	NAVIGATION	SEISMIC SYSTEM	
TRANSIT	2030Z	820918		9.7	—	3.5 KHZ	1
Sta 1	2331Z	820918	86.29		33°19.64N 77°17.58W	3.5 KHZ	2
Sta 16	0057Z	820919			33°19.7 N 77°17.6 W	3.5 kHz	3
Line 1	0157Z	820919			33°20.1N 77°17.5 W	3.5kHz turned off - Data sonics fish	4
	0320Z	820919		0.0	33°15.4N 77°18.4W	3.5 kHz	5
	0340Z	820919		10.3	33°14.4N 77°18.5W	3.5 kHz	6
L1	0700	"	100.8	7.4	32°44.6 x 77°28.2	3.5KHZ	7
	0710	"	—	—		"	8
	0725	"	—		—	"	9
L1	0750	"			32°40.0x 77°31.0	"	10
L1	0810	820919	225.8	7.0		3.5 KHZ	11
L1	0814					3.5KHZ	12
L1	0945	820919	205.2	7.1	32°27.9 77°37.2	3.5KHZ	13
L1	1032	820919	201.3			NAV	14
L1	1043	820919	200.7	7.4	32°22.5 77°38.8	NAV	15
L1	1100			1.7			16
	1112					Datasonics Fish	17
L1	1135	820919	Spd. 3.4 W/Spd. 3.1		32°21.5 77°38.7	" "	18
L1	1144					Spd. through Water	19
L1	1146					" "	20
	1200					GOOD REFNS SIGNAL	21
to S2	1315	820919	271 Spd 2.0 W/Spd 3.0		32°15.0N 77°42.0W	Hi-res/Mx calibration	22
	1336		116.230 kHz/MX		32°15.92N 77°41.69W		23
	1437				32°16.0 N 77°42.6W		24
	1607	820919			32°17.71N 77°41.85W		25
↓	1637	820919	"		32° 19.28 N 77°41.33W	Datasonics Fish	26
S2	1657	820919	"		—	"	27
L1	1720	"				"	28
L1	1733	"	311	7.0	32°21.6x 77°44.0	Fish	29
	1748	"			32°20.7 77°41.2	"	30
	1758	"				"	31
	1802	"			32°19.3 77°41.6'	Fish out of water	32
↓	1805	"		6.7	32°19.2 77°41.6'	3.5 KHZ	33

AREA Outer Shelf / to Blake Plateau N.E. Phosphorile Area

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS	COMMENTS
1	0.5s	0-375 m.	—				
2	0.5	0 - 375 m	—	—	—	—	CORE STATION #1 Depth 40 m.
3	0.5	0 - 375 m					Core (C1) Station # 1b Depth 37 m.
4	0.25 sec	0 - 187.5 m					data sonics fish in water Depth 35 m
5	~~0.25~~	~~0 - 187.5 m~~					(speed changes) fish out - safety line broke
6	0.5	0 - 375 m					return to cruising Depth 70 m
7	0.5	375 - 750 m ~~0 - 375 m~~			/		chart crossing → 0.5 - 1.0 sec.
8	—	—					lost bottom in key signal
9	—	—					found bottom
10	—	—					double reflector → rise in bottom
11	0.5	375-750 m					Lost bottom in key signal
12	1.0	0 - 750 m					c/scale
13	0.5	375-750 m					c/scale
14	—	—					reduce spd to 3 kts.
15	—	—					ON STA. #2 to deploy datasonics equip.
16	—	—					SYSTEM 1+2 ON
17							PUT SAFETY LINE ON FISH
18	—	—					Experimenting w/ 3.5 + 15 KHZ
19	—	—					Increase to 8 kts.
20							Increase to 10 kts noisy record!
21							Slow to 7 knots
22							Stop, heed to swell in dredge, fish out
23							(D1) Dredge in / fish in [illegible] Depth [illegible]
24							[illegible] Depth [illegible]
25							(C2) Station 2 to core, fish at 5 m Depth 520 m
26	—	—	—	—	—	—	Station 2, corer on bottom
27	—	—	—	—	—	—	Station 2, core on board
28	3 source		—	—			Started back to line 1 at 3 knots
29		—	—	—	—	—	ON Line 1, START seismic line 6 kts
30		—	—	—	—	—	Increase to full speed for 30 min.
31		—	—	—	—	—	Decrease to 2 knots to raise fish
32		—	—	—	—	—	Increase to full speed
33	0.5	375 - 750 m	—	—	—	—	Start 3.5 KHz

SHIP/CRUISE NO./LEG GYRE-G-11

CHIEF SCIENTIST Frank T. Manheim

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM	
L1	1855	820919				3.5 KHz	1
L1	1857	820919	/195.5	7.0	32°13.3' 77°43.3'	"	2
L1	1962	820919	/193.1	3.5	32°12.9' 77°43.5'	"	3
L1	1904	820919	/196.2	3.7	" "	Datasonics Fish	4
L1	1951	820919	/188.4	3.6	32°10.2' 77°44.4'	"	5
L1	1953	820919	/187.3	1.5	32°10.2' 77°44.4'	3.5 KHz	6
L1	1957	820919	/187.7	4.4	32°9.9 77°44.5'	"	7
L1	2032	820919		2.0	32°6.7N 77°45.13W	Datasonics Fish	8
L1	2035	820919	/	1.0		" "	9
L1	2054	820919	/183.9	3.08	32°5.7N 77°45.71W	" "	10
L1	2106	820919	/183.2	3.21	32°5.2N 77°45.83W	" "	11
L1	2133	820919	/177.3	3.00	32°3.9N 77°46.00W	" "	12
L1	2157	820919	177.0	0.7	32°2.6 77°46.30	Datasonics Fish	13
L1	2157				" "	3.5 KHz	14
L1	2313	820919	/27.7		32°23.13N 77°45.21W	3.5 KHz.	15
L1	2320	820919				Datasonics Fish	16
L1	2320	820919			32°07.7 77°45.2	ANGUS 1	17
L1	2330	820919	69.1	~1.0	32°8.37N 77°45.04	" "	18
L1	2345	820919	59.0	~1.0	32°9.21 77°44.8	ANGUS 1	19
L1	2349	820918			32°9.5 77°44.8	ANGUS 1	20
L1	0002	820920	109.4	2.4	32°10.3 77°44.85		21
L1	0017	820920	101.4		32°10.9 77°44.5		22
L1	0030	820920	85.5		32°11.6 77°44.2		23
L1	0045	820920	343.2		32°12.5 77°44.3		24
L1	0100	820920	309.2		32°13.5 77°44.5		25
L1	0115	820920	320	2.6	32°14.5 77°44.8		26
L1	0130	820920	333		32°15.6 77°45.1		27
L1	0137	820920					28
L1	0145	820920	317		32°16.4 77°45.2		29
L1	0200	820920	314	2.5	32°17.4 77°45.5		30
L1	0215	820920	337		32°18.4 77°45.7		31
L1	0217	820920					32
L1	0220	820920			32°18.9 77.46.7		33

ANGUS ROLL #191 was dated incorrectly. The films are dated the 19th Sept. Should be the 20th.

AREA Blake Plateau N.E. Phosphorite Area

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
1	0.5	375-750m	—	—	—	—	Decrease to 6 knots to put Fish in
2	"	"	—	—	—	—	Further decrease to 2knots to put fish on
3	"	"	—	—	—	—	Fish in water (for 15 min run ?)
4	3	sources	—	—	—	—	Switch from 3.5 KHz to Fish
5	"	"	—	—	—	—	Decrease to 2knots to remove fish
6	0.5	375-750m	—	—	—	—	Fish out 3.5 kHz on, return to full speed
7	"	"	—	—	—	—	Maintaining full speed for 30 min
8	3	sources	—	—	—	—	decreased to 2 knots to deploy Fish
9	"	"	—	—	—	—	3.5 KHZ, 15 KHZ UP
10	"	"	—	—	—	—	Water Depth ~650m
11	"	"	—	—	—	—	water Depth ~665m
12	"	"	—	—	—	—	Water Depth ~650m
13	"	"	—	—	—	—	System out of Water ~672m
14	0.5	3	—	—	—		3.5 KHZ ON Standing still for Seismic interpretation
15	0.5	375-750m	—	—	—	—	3.5 KHZ. -END LINE 2. ON STATION FOR ANGUS
16	—	—					Data source system up
17	—						Angus over
18	—						ANGUS STILL GOING DOWN
19	—						" "
20							ON BOTTOM TAKING PIX
21							
22							
23							Heading change to 351 Depth 545m
24							Heading change Depth 525m
25							Depth 535m
26							Heading correction (050 mag) Depth 585
27							Trace fish, wall 0131z Depth 550m
28							gains 200 db Pulse Rate 1 in / 1440z
29							
30							
31							
32							Going over Hummocks
33							going over sharp peak

SHIP/CRUISE NO./LEG Gyre - G-11

CHIEF SCIENTIST Frank T. Manheim

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD (ship relative to water)	NAVIGATION	SEISMIC SYSTEM
L1	0230	82 09 20	351	2.2	32° [illegible] 77° 45.2 W	Focus 1 & Fish
L1	0245	82 09 20	353		32° 20.6N 77° 45.7 W	
L1	0300	82 09 20	1.0		32° 21.8 77° 45.8	
L1	0315	82 09 20	3.0	2	32° 23.9 77° 45.7	
L1	0330	82 09 20	5.6	2.3	32° 24.0 77° 45.6	
L1	0345	82 09 20	6.3	2.4	32° 25.1 77° 45.4	
L1	0400	82 09 20	2.0	2.3	32° 26.1 77° 45.2	
L1	0415	82 09 20	358.5	SPD 4.1	32° 27.2 77° 45.1	
L1	0430	82 09 20	348.3	1.7	32° 28.1 77° 44.9	
L1	0445	82 09 20	331.7	2.1	32° 29.2' 77° 44.7'	
L1	0500	82 09 20	333.4	2.1	32° 30.2' 77° 44.5'	
L1	0515	82 09 20	329.6	2.2	32° 31.2' 77° 44.3'	
L1	0530	82 09 20	334.2	2.3	32° 32.1' 77° 44.1'	
L1	0532	82 09 20	334.9		32° 32.3' 77° 44.0'	
L1	0536	82 09 20	335.2		32° 32.6' 77° 44.0'	3.5 kHz
L1	0556	82 09 20	314.1		32° 33.9' 77° 43.9'	"
L1	0559	82 09 20	313.2		32° 34.1' 77° 43.9'	"
L1	0609	82 09 20	314.6		32° 34.9' 77° 43.9'	"
L1	0620	82 09 20	187.2		32° 34.6' 77° 43.8'	"
L1	0953	82 09 20	~169.0		32° 14.89 77 45.9'	"
L1	0957	82 09 20				"
L1	1006	82 09 20	170.3			"
L1	1130	82 09 20	168.2	5.2	32° 6.05 N 77° 45.04 W	"
L1	1149	82 09 20	184.3		32° 4.46 N 77° 44.95 W	"
L1	1160	82 09 20	116.0		32° 6.02 N 77° 45.28'	"
L1	1310	82 09 20	108.8		32° 10.33 N 77° 17.15 W	"
L1	1320	82 09 20	113		32° 11.12 N 77° 47.53 W	
L1	1420	82 09 20	171	0	32° 11.35 N 77° 45.3	Fish
L1	1430	82 09 20	160			"
L1-S3	1432	82 09 20	157	1.5	32° 11.64 N 77° 45.43 W	"
L1	1445	82 09 20	156.		32° 12.28 77° 45.68	"
L1	1500	82 09 20	157.		32° 12.93 77° 45.95	3.5 kHz
L1	1530	82 09 20	173		32 10.61 77 44.9	"

AREA Blake Plateau N.E. Phosphorite Area

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS	COMMENTS
1	3	sources	—	—	—	—	Depth 460m
2							Depth 460m
3							course correction Depth 465m
4							Depth 450m
5							Depth 435m
6							Depth 435m
7							Depth 425m
8							SPD from screen Depth 405m
9							SPD from cos. calculation Depth 400m
10							" Depth 380m
11							" Depth 380m
12							" Depth 370m
13							" Depth 370m
14							Angus coming up
15	0.5	Ø-375m	—	—	—	—	turn off fish, turn on 3.5 KHz
16	"	"	—	—	—	—	Angus being brought on board
17	"	"	—	—	—	—	wait until Ø61ØZ for commo (satellite)
18	"	"	—	—	—	—	Angus secure. Turning ship to steam at 6 knots for 32°5' 77°45'
19	1.0	Ø-750m	—	—	—	—	sweep chg on 3.5 kHz Steaming towards 32°5' 77°45'
20	"		—	—	—	—	Encountered Canyon
21	"	"	—	—	—	—	"
22	"	"	—	—	—	—	"
23	.5		—	—	—	—	Changed Sweep To .5
24	"	"	—	—	—	—	End of return line
25	"	"	—	—	—	—	"
26	"	"					Proceeding to target location 32°11.0N 77°45.0W
27							" " " " " "
28	1.		—	—	—	—	Cove over, fish in.
29	1.						
30	1	—				—	(C3) on the bottom
31	1.	—					Coming up
32	.5	—	—			—	Fish up
33	.5	—					Coming on way home

SHIP/CRUISE NO./LEG GYRE - G-11

CHIEF SCIENTIST Frank Manheim

LINE START / END	TIME	YYMMDD	~~GRS/HDG~~ TRK	SPD	NAVIGATION	SEISMIC SYSTEM
LI	1538	820920		dr. LT (WSTN) 4.0	32°10.8N, 77°44.95W	3.5 KHZ
LI	1543	820920		3.0	32°11.14 N, 77°45.05	"
LI	1545	820920		2.8	32.11.28N, 77°45.14	"
LI	1600	820920		3.7	32°11.9' 77°45.5'	"
L1	1640	820920		4.2	32° 11.0' 77°44.8'	"
L1/S3	1650	820920		2.8	32° 11.5' 77°45.0'	"
L1	1756	820920		2.43	32° 10.8' 77° 45.2'	"
L1/S3	1802	820920		3.14	32° 11.0' 77°45.3'	"
L1	1817	820920		2.8	32° 11.7' 77°45.7'	"
L1	1826	820920	141.3	SPD 6.8	32° 11.4' 77° 45.2'	"
L1	1832	820920				—
L1	1840	820920	143.8	6.8	32° 10.2' 77°43.8'	3.5 KHZ
L1	1900	820920	TRK 338.8	2.1	32°9.67' 77°42.50'	"
L1	1906	820920	338.1	3.0	32° 9.4' 77°42.7'	DATASONICS PAVEMENT
L1	1927	820920	333.7	3.2	32° 10.4' 77° 43.1'	"
L1	1929	820920	335.6	3.2	32° 10.5' 77° 43.2'	3.5 KHZ
L1/S3	1956	820920	336.5	3.4	32° 11.9' 77°43.9'	"
L1	2019	820920	61.5		32°12.90' 77°44.6'	"
L1	2020	820920	49.4	3.4		27KHZ. PAVEMENT PINGER
L1	2100	820920				3.5 KHZ
L2	2108	820920			32°15.5' 77 46.3	Deep Tow
	2190	820920	163.7	6.6		STEAMING
	2200	[illegible]	152.1	6.5	38°10.6 N 77°44.6 W	"
	2215	[illegible]	147.3	6.1		" 3.5 KHZ
	2300	820920	150.7	6.6	32°9.9 77°90.9	" 3.5 KHZ
	[illegible]	820920				" [illegible]
	23317	820920				" [illegible]
	23317	820920	154.5	7.1		" [illegible]
	23417	820920	153.7	7.4		" 3.5 KHZ
	2344	820920	156.0	7.1	32°0.35 77°8.4	" 3.5 KHZ
L2	0011	820921	152.2	7.5	31°57.4 N 77°36.7W	" "
L2	0125	820921	157.2	7.8	31°48.4N 77°31.6W	" "
L2	0228	820921	159.8	9.0	31°40.[illegible] 77°27.9W	"

AREA Blake Plateau N.E. Phosphorite pavement

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	WAVE SPEED MAGNETICS	DIR	COMMENTS
1	0.5	375-750m	—	—	—	—		Corer going to bottom at 557 meters
2	0.5	"	—	—		—		Corer hit bottom but not trigger
3	0.5	"	—	—				Corer hit again but not trigger
4	"	"	—	—	—	—		corer on deck, trying for another core
5	"	"	—	—	—	—		corer going down Depth 555m
6	"	"	—	—	—	—		C4 on bottom, tripped Depth 545m
7	"	"	—	—	—	—		Corer going down Depth 555m
8	"	"	—	—	—	—		C5 on bottom, tripped Depth 551m
9	"	"	—	—	—	—		corer on board, returning to Station
10	"	"	—	—	—	—		maintaining HDG/SPD until 1900Z
	—	—	—	—	—	—		change roll in recorder - 3.5 KHz
	0.5	375-750m	—	—	—	—		restart 3.5 KHz recorder
	"	"	—	—	—	—		Pavement penetrator being lowered
	PENETRATOR		—	—	—	—		3.5 KHz off
	"	"	—	—	—	—		Pavement test, no bottom return, will try weight test
	0.5	375-750m	—	—	—	—		3.5 KHz on
	"	"	—	—	—	—		C6 Cover on bottom, tripped Depth 549m
	0.5	"	—	—	—	—		DEEP TOW HYDROPHONE DEPLOYED 3.5 OFF
	0.5	"	—	—	—	—		PAVEMENT PINGER
20	0.5	375-750M						SYSTEM ON; DeepTow coming up
								DeepTow onboard - steaming Loc 5
						3.1 (336.8)		Steaming
						3.2 (331.3)		
	0.5	375-750m				3.5 (339.0)		
5	0.5	375-750m				2.9 (343.6)		
	1.0							LOST BOTTOM ON 3.5 KHZ
27								
	1.0	750-1500				2.5 (349.0)		1.0 Sec SW A delayed by B
	1.0	0-750m				2.5 (350.9)		C/Scale
	1.0	375-1125m				2.4 (345.2)		C/Scale w/0.5 Sec delay
	1.0	375-1125m				2.3 (354.[illegible])		" " "
		"				2.6 (30[illegible])		
		"				2.2 (66.4)		

(5)

SHIP/CRUISE NO./LEG GYRE 82G-11

CHIEF SCIENTIST Frank Millero

LINE START / END	TIME	YYMMDD	CRS/~~HDG~~ TRK	SPD	NAVIGATION	SEISMIC SYSTEM	
L2	0304	820921	161.8	8.8	31°35.6N, 77°26.0W	3.5 KHz	1
L2	0400	820921	150.3	9.3	31°28.1N 77°21.9W	3.5 KHz	2
L2	0430	820921	151.7	9.3	31°24.1'N 77°19.4°W	"	3
L3/54	0458	820921	5.4	4.1	31°22.0 77 18.6	Datasonics Fish	4
—	0533	820921	—	—	31°24.4' 77°19.3'	3.5 KHz	5
—	0649	820921	82.4	3.7	31°27.2' 77°28.1'	Datasonics Fish	6
—	0645	820921	—	-	~ "	"	7
—	0702	820921	81.1	4.1	31°27.3' 77°26.9'	"	8
L4	0744	820921	98.4	2.3	31°27.9' 77°24.4'	"	9
L4	0802	820921	91.9	2.1	31° 27.9' 77°23.7'	"	10
L4	0815	820921	76.6	3.0	31° 28.4' 77° 22.2'	"	11
L4	0830	820921	111.8	2.0	31° 28.4' 77°22.1	"	12
L4	0850	820921	76.52	3.2	31°28.7 77° 20.0	Angus, Datasonics	13
L4	0900	820921	78.53	3.0	31°28.8 77°19.4		14
L4	0901	820921	78.49	3.0	31°28.8 77°19.1	Angus	15
L4	0931	820921	89.92	2.7	31°29.2 77° 17.7	Angus	16
L4	0944	820921	94.04	3.3	31°29.1 77°16.9	Angus	17
L5/L4	0953	820921	59.15	4.0	31°29.2 77°16.4	Datasonics Fish	18
L5	0955	820921	341.3	9.0	31°29.4 77°16.5	"	19
L5	1024	820921	312.3	5.2	31°31.6 77 18.7	"	20
L5	1045	820921	316.8	4.3	31°32.5 77°19.7	"	21
L5	1055	820921	319.0	4.1	31°33.0 77 20.	"	22
L5	1131	820921	314.8	4.7	31°39.4 77 21.5	"	23
L5	1145	820921	316.0	4.5	31°35.7 77° 23.3	"	24
L5	1200	820921	321	4.6	31°36.7 77 24.3	"	25
L5	1216	820921	325.	3.8	31°37.6 77°24.9	"	26
L5	1230	820921	330	4.5	31°38.4 77 25.6	"	27
L5	1247	820921	330	4.9	31°39.5 77°26.4	"	28
L5	1313	820921	336	4.4	31°41.4 77°27.6	"	29
L5	1344	820921	292.	2.5	31°43.3 77°28.9	"	30
L5	1400	820921	245	2.2	31°42.85 77°29.2	"	31
L5	1415	820921	219.	1.2	31°42.33N 77°30.1W	"	32
L5	1440	820921	64.6	3.8	31°42.3N 77°29.9W	"	33

AREA Blake plateau East nodule area

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	MAGNETICS wire speed (kts)	COMMENTS
1	1.0	375-1125m	—	—	—	1.3 (48.5)	C/scale w 0.5 sec delay
2	1.0	375-1125m	—	—	—	2.3 (71.0)	C/scale w/ 0.5 sec delay Depth 999m
3	"	"	—	—	—	2.2 (67.5)	c/scale w/0.5 sec delay Depth 1024m
4	3	sources	—	—	—	2.1 (116.9)	Fish in water
5	1.0	375-1125m	—	—	—	—	Fish out, relocating to deploy Angus
6	3	Sources	—	—	—	1.6 (24.4)	Fish in water, 3.5 KHz off
7		"	—	—	—	"	ANGUS OVER
8		"	—	—	—	4.0 (81.7)	ANGUS SKII going down
9		"	—	—	—	0.0 (0.0)	ANGUS on bottom smce 0719Z
10		"	—	—	—	0.0 (0.0)	ANGUS 1 + Fish
11		"	—	—	—	1.7 (45.9)	"
12		"	—	—	—	0.01 (206.5)	ANGUS 1 + FISH
13		"				1.8 (36.9)	RNG OVER E.O.L ~ 1 mile
14		"				1.6 (21.03)	Approaching E.O.2.
15		"	—	—	—	2.9 (21.48)	Angus coming up
16		"				1.7 (20.96)	Angus @ 30 meters
17		"				1.9 (35.27)	Angus ON BOARD
18	3	sources	—	—	—	4.0 (77.7)	Turning to L5 - maintain 6kts.
19		"				2.5 (92.9)	S.O.L 5 to STATION 6
20		"	—	—	—	2.5 (55.6)	Reduce spd to 5.5 Kts
21		"				1.7 (55.72)	Datasonics systems
22		"				2.5 (66.9)	"
23		"	—	—	—	1.5 (64.2)	"
24		"	—	—	—	1.4 (71.8)	"
25		"				1.9 (70.1)	"
26	"	"				2.3 (87.6)	"
27	"	"				3.4 (72.1)	"
28	"	"	—	—	—	2.7 (68.1)	"
29	"	"	—	—	—	2.3 (63.7)	"
30	"	"	—	—	—	3.3 (59.6)	"
31	"	"				3.0 (68)	"
32	1.0	375-1125	—	—	—	3.4 (60)	Fish out
33	"	"	—	—	—	2.3 (43)	C/scale w 0.5 sec Delay

SHIP/CRUISE NO./LEG Gyre 82-11

CHIEF SCIENTIST Frank Millero

LINE START / END	TIME	YYMMDD	TRK CRS/~~HDG~~	SPD	NAVIGATION	SEISMIC SYSTEM	
L5	1459	820921	55.9	3.4	31°40.6 77°29.6	3.5 KHZ	1
L5/56	1501	820921	55.6	3.4	31 42.7 77°29.4	"	2
L5	1506	820921	55.3	3.4	31°42.8' N 77°29.1	"	3
L5	1526	820921	57.3	3.0	31°43.2' 77°28.3'	"	4
L5	1542	820921	155.2	8.6	31° 41.9 77°26.9	"	5
L5	1602	820921	173.6	8.3	31° 39.2' 77° 26.1'	"	6
L5/57	1637	820921	53.6	2.6	31° 38.9' 77° 25.6'	"	7
L5/57	1643	820921	41.5	2.2	31° 39.1' 77° 25.4'	"	8
L5/57	1652	820921	44.5	2.4	31° 39.3' 77° 25.2'	"	9
L5/57	1721	820921	42.9	2.6	31° 40.3' 77° 24.2'	"	10
L5/57	1731	820921	38.1	2.3	31° 40.6' 77° 23.8'	"	11
L5/57	1748	820921	43.1	3.8	31° 41.1' 77° 23.2'	"	12
L5/57	1802	820921	47.6	3.5	31° 41.8' 77° 22.5'	"	13
—	1823	820921	44.0	3.5	31° 42.6' 77° 21.4'	"	14
L5/58	1944	820921	134.0	7.0	31° 32.9' 77° 22.8'	"	15
L5/58	2008	820921	93.3	1.9	31° 33.9 77° 22.2'	"	16
L5/58	2015	820921	—	—	———	"	17
L5/58	2016	820921	56.44	1.9	31° 33.6 77° 21.9	"	18
L5/58	2018	820921	55.31	1.8	3133.6 77° 21.8	"	19
L5/58	2026	820921	60.51	1.1	31° 33.8 77° 21.7	"	20
L5/58	2031	820921	56.65	1.0	31° 33.8 77° 21.6	3.5 KHZ	21
L5/58	2045	820921	59.26	1.6	3134.1 77° 21.4	3.5 KHZ	22
L5/58	2100	820921	56.09	1.9	31° 34.4 77° 20.7	"	23
TRANSIT	2335	820921	233.6	2.3	31° 27.3 77° 38.6	"	24
							25
TRANSIT	0017	820922	246.	6.7	31° 25.9 77° 42.9	3.5 KHZ	26
Sta 9	0026	820922	14	1.6	31° 25.9 77° 43.4	3.5 KHZ	27
L6	0030	820922	27	1.7	31° 26.1 77° 43.3	Argus Argus — 3.5 KHZ	28
L6	0036	820922	29	2.0	31° 26.3 77° 43.2	Argus Argus - Datasonics fish	29
L6	0055	820922	17	1.6	31° 26.8 77° 43.0	"	30
L6	0100	820922	23	1.7	31° 26.9 77° 42.9	"	31
L6	0115	820922	13	.9	31° 27.3 77° 42.8	"	32
L6	0130	820922	346	.8	31° 27.5 77° 42.8	"	33

AREA Blake plateau N.E. Nodule Area

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	wspd (WTR) MAGNETICS	COMMENTS
1	1.0	375-1125	—	—	—	2.1 (38)	Dredge going down
2	"	"	—	—	—	1.8 (49)	(D2) Dredge on bottom 825 meters
3	"	"	—	—	—	1.8 (51)	Dredge on way up
4	"	"	—	—	—	1.4 (60)	Dredge up
5	"	"			—	2.7 (89)	Steam to station #7
6	"	"	—	—	—	1.9 (98)	continue steaming
7	"	"	—	—	—	2.6 (53.2)	(D3) dredge on bottom
8	"	"	—	—	—	2.1 (40.9)	dredge full, coming up
9	"	"	—	—	—	1.0 (56.8)	dredge off bottom
10	"	"	—	—	—	0.8 (50.0)	(D4) dredge on bottom 891 m
11	"	"	—	—	—	2.0 (46.7)	dredge being hauled in 1300 m wire
12	"	"	—	—	—	3.7 (43.9)	dredge off bottom (heavy rain) 900 m
13	"	"	—	—	—	3.1 (38.3)	dredge near surface
14	"	"	—	—	—	3.6 (44.8)	Fish secure, steaming to S8
15	"	"	—	—	—	1.1 (228.6)	slowing down to dredge
16	"	"	—	—	—	—	(D5) dredge on bottom
17		"	—	—	—	—	TUG ON BOTTOM OF 3500 lbs.
18		"	—	—	—	—	" 3500 lbs.
19		"	—	—	—	1.3 (352.3)	Several sustained tugs → 4000 lbs.
20	"	"	—	—	—	1.3 (247.7)	last 2 min 955 m → 4000 lbs tugs
21	1.0	375-1125	—	—	—	0.8 (50.23)	dredge coming in - 1420 m wire
22	1.0	375-1125	—	—	—	0.6 (55.4)	D-5 OFF BOTTOM - HAULING IN
23	1.0	"	—	—	—	2.3 (102)	D-5 on board
24	1.0	375-1125	—	—	—	1.6 (80.1)	ON ROUTE TO STA 9 FOR ANGUS
25							
26						.7 (75)	
27						1.6 (91)	at station 9
28						1.7 (90)	Angus in Depth 775 m
29						2.0 (96)	fish in
30						1.4 (82)	Angus on bottom
31						1.9 (75)	Depth 770 m
32						1.7 (68)	
33						1.6 (66)	Depth 770 m

SHIP/CRUISE NO./LEG GYRE 82-6-11

CHIEF SCIENTIST F. T. MANHEIM

LINE START / END	TIME	YYMMDD	CRS/~~HDG~~ TRK	SPD	NAVIGATION	SEISMIC SYSTEM	
L6	0150	82 09 22	350	1.4	31°27.9 77° 43.0	Angus Argus II 3A - Datasonics fish	1
L6	[illegible]	82 09 22	4	1.3	31° 28.1 77° 43.0		2
L6	0215	82 09 22	350	.8	31° 28.4 77° 43.1		3
L6	0230	82 09 22	1.4	.8	31° 28.6 77° 43.0		4
L6	0247	82 09 22	338	.8	31° 28.8 77° 43.1		5
L6	0300	82 09 22	340	.5	31° 28.9 77° 43.1		6
L6	0322	82 09 22	45	.4	31° 29.1 77° 43.1		7
L6	0330	82 09 22	192	.4	31° 29.2 77° 43.1		8
L6	0354	82 09 22	140	1.5	31° 28.8 77° 42.6		9
L6	0400	82 09 22	—	—	31° 28.6 77° 42.4		10
L6	0421	820922	?	?	31°27.4' 77° 41.5'	Fish	11
L6	0425	820922	316	4.2	31°28.9' 77° 43.4'	"	12
L6	0600	820922	356.5	4.6	31°37.9' 77° 44.3'	" - change in acoustic reflectivity	13
L6	0800	820922	344.9	3.3	31°45.2' 77°45.8'	"	14
L6/S10	0825	820922	3.918	2.9	31.46.7 77°45.9	3.5KHZ, datasonics gear	15
L6	0831	820922	—	—	———	Bird Sighting by F. M.	16
L6	0940	820922	192.7	5.1	31°41.7 42.3	3.5 KHZ	17
L6	1029	820922	203.9	6.8	31°31.3 77°44.2	3.5KHZ	18
L6	1038	820922	43.25	1.3	3136.6 7744.43	ANGUS #3b	19
L6	1052	820922	51.94	1.2	36.8 44.2	3.5KHZ, Datasonics	20
L6	1119	820922	47.06	1.3	31°37.18 77°43.83	Angus 3b	21
L6	1131	820922	42.17	1.5	31° 37.4 77°43.6	"	22
L6	1145	820922	46.6	1.2	31° 37.6 77°43.3	ANGUS 3B	23
L6	1203	820922	18.25	1.8	37.8 43.2	ANGUS 3B	24
L6	1215	820922	35	4.2	31° 38.5 77° 42.7		25
L6	1224	820922	—	—	———		26
L6	1230	82 09 22	38	3.3	31° 39.3 77° 42.0		27
L6	1244	820922	41	4.1	31°39.92N 77°41.39W	Angus 3B	28
L6	1301	820922	41	3.5	31°40.8N 77°40.7W	"	29
L6	1322	820922	23	2.0	31°41.6N 77°40.0W	"	30
L6	1332	820922	35	3.1	31°42.0N 77°39.7W	"	31
L6	1355	820922	23	3.1	31°42.9N 77°39.1W	"	32
L6	1402	820922	24	2.9	31°43.2N 77°38.9W	"	33

AREA Blake Plateau N.E. nodule area

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	~~MAGNETICS~~ WSPD (WTRK)	COMMENTS
1						1.7 (56)	
2						2.3 (76)	
3						2.5 (85)	
4						3.2 (83)	Depth
5						28 (70)	
6						2.4 (80)	
7						2.6 (73)	Bringing Angus up (1.9 miles out)
8						2.9 (58)	changing course to reduce roll (HDG 204)
9						1.6 (62)	Angus up
10						2.0 (67)	
11	3	sources	—	—	—	? ?	going towards S1Ø w/ Fish @ 6 knots (rel to water) & for about 3 hours
12		"	—	—	—	1.0 (110)	LORAN back up
13		"	—	—	—	3.4 (89)	acoustics line towards S1Ø
14		"	—	—	—	4.2 (71)	acoustics line toward S1Ø (range 1.5)
15	1.0	375-1125 m	—	—	—	4.9 (68.8)	Datasonics gear off - 3.5 KHZ on
16	—	—	—	—	—	—	Flock of little song birds N.E
17	1.0	375-1125 m	—	—	—	3.2 (192.0)	IN TRANSIT
18	1.0	375-1125 m				2.6 (89.4)	"
19	1.0	375-1125 m				—	ANGUS GOING IN 735 m
20	3	sources				3.6 (27.2)	3.5 KHZ OFF, DATASONICS ON
21	3	sources				3.9 (81.1)	ANGUS ON BOTTOM
22	—	—				4.2 (76.6)	ANGUS Run 36.
23	Datasonics (3 sources)					4.5 (98.0)	Increase spd to tighten course
24	3	sources				2.7 (110.2)	C/course 330°
25						3.8 (81)	depth 730 m
26							3.5 KHz recorder not advancing
27						4.0 (90)	
28		"	—	—	—	4.4 (103)	Fish raised + lowered
29		"	—	—	—	5.0 (99)	Fish raised & lowered
30		"	—	—	—	3.0 (90)	
31		"	—	—	—	4.8 (80)	small bump in Tenair
32		"	—	—	—	4.3 (82)	MFES given [illegible]
33						4.1 (79)	

SHIP/CRUISE NO./LEG Gyre 82-G-11

CHIEF SCIENTIST T. Manheim

LINE START / END	TIME	YYMMDD	TRK CRS/~~HDG~~	SPD	NAVIGATION	SEISMIC SYSTEM	
L6	1417	82 09 22	28.5	2.8	31°43.9 77°38.4	Argus Argus 38, Datasonics fish	1
L6	1430	82 09 22	36.5	2.9	31°41.4 77°38.1		2
L6	1447		17.8	2.7	31°45.2 77°37.6		3
[illegible]	1497	82 09 22	38.4	2.0	31°46.[illegible] 77°37.6		4
transit	1520	82 09 22			31°46.3 77° 37.8	3.5 kHz ranger	5
transit	1546	82 09 22	274	5.1	31°46.5 77°40.4	"	6
S11	1650	820922	212	1.0	31°46.4' 77°46.3'	"	7
S11	1749	820922	—	4.8	31°46.2' 77°46.7'	"	8
S11	~1756	820922	71.4	5.2	31°46.5 77°45.0'	"	9
S11	1820	820922	77	5.1	31°47.0 77°44.6'	"	10
S11	1833	820922	87	3.9	31°47.1' 77°43.6'	"	11
transit	1923	820922	210	5.6	31°46.6' 77°40.5'	"	12
transit	1968	820922	—	—	—	"	13
transit	1925	820922	—	—	—	"	14
L6 S12	2003	820922	115.7	1.1	3143.07 77°42.9	"	15
L6 S12	2020	820922	73.8	3.2	31°43.4 77°41.7	"	16
L6 S12	2027	820922	78.7	2.8	31°43.5 77 41.4	"	17
L6 S12	2036	820922	89.8	3.3	31°43.5 77°40.8	"	18
L6 S12	2055	820922	66.9	3.2	31°43.8 77°39.6	"	19
							20
L6 S12		820922	248.4	5.2	31°42.5 77°42.5	"	21
L6 S12	2145	820922	75.1	2.8	31°42.8 77° 41.5'	"	22
transit							23
L7/S13	0043	82 09 23	81.7	3.8	31° 53.8 77° 41.0	Argus Argus 5, Datasonics fish	24
L7	0100	82 09 23	83.3	5.4	31° 54.0 77° 47.5	"	25
L7	0126	820923	62.3	4.8	31° 54.6 77° 45.0		26
	0130	820923	94.7	3.6	31° 54.6 77° 44.6S		27
	0145	820923	81.8	3.1	31° 54.7 77° 43.5		28
	0200	820923	84.0	4.0	31° 54.8 77° 42.5		29
	0212	820923	82.8	4.0	31°54.9N 77 41.6W		30
	0231	820923	87.7	3.5	31° 54.4N 77 40.3W		31
L7	0255	820923	78.0	3.9	31°55.1 N 77°39.3W		32
	0302	820923	81.5	3.6	31°55.2N 77 38.0 W		33

AREA Blake Plateau N.E. Nodule area

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	MAGNETICS WRPD (WTRFL)	COMMENTS
1	2Sec	4Sec Free				4.1 (79.7)	
2						4.7 (89.2)	Angus Argus coming up
3						7.7 (19.6)	
4						4.4 (82)	Fish up Angus up
5	1.0	375 – 1125 m	—	—	—		underway to site (11)
6	"	"	—	—	—	4.7 (77)	"
7	"	"	—	—	—	2.5 (93)	at dredge site (11)
8	"	"	—	—	—	1.5 (345)	reposition at dredge site (11)
9	"	"	—	—	—	3.2 (89)	dredge on bottom at canyon lip.
10	"	"	—	—	—	4.2 (82)	back on bottom
11	"	"	—	—	—	3.5 (90)	dredge coming up (fouled up)
12	"	"	—	—	—	2.4 (122)	going to dredge site 31°42.5', 77°43.2'
13	"	"	—	—	—	—	start lumpy section on 3.5 KHz
14	"	"	—	—	—	—	return to smooth bottom on 3.5 KHz
15	1.0	375 - 1125m	—	—	—	3.7 (67.7)	ON DREDGE STA.
16	1.0	375 - 1125 m	—	—	—	—	ON BOTTOM (D-7) STA. 12
17	"	"	—	—	—	2.6 (83.8)	2 Jugs of 8000 lbs
18	"	"	—	—	—	—	Possibly lost dredge!
19	"	"				2.9 (64)	LOST DREDGE - Return
20						—	to Sta 12 and CORE
21	"	"	—	—	—	3.9 (250.2)	Approaching Sta 12 For C-7
22	"	"	—	—	—	2.6 (79)	corer on bottom (depth 724m)
23							
24	2Sec	4Sec Five				5.8 (93)	Angus in, Fish in
25	"	"				4.4 (97.5)	
26						3.5 (73)	trouble with wire 900m out
27						3.5 (96)	flying OK. 715m out
28						2.8 (87)	
29						3.7 (86)	Depth 735 m
30						3.6 (89)	Loran stopped @ 0212
31		"					Loran O.K.
32						3.6 (80)	
33						3.7 (82)	

(9)

SHIP/CRUISE NO./LEG Gyre 82-G-11
CHIEF SCIENTIST F.T. Manheim

LINE START / END	TIME	YYMMDD	CRS/HDG TRK	SPD	NAVIGATION	SEISMIC SYSTEM	
L7	0315	820923	47.6	3.7	31°55.4 77°37.1	Angus + Fish	1
L7	0330	820923	79.4	3.7	31°55.6 77°36.0	"	2
L7	0345	820923	74.6	3.9	31°55.8 77°35.1	"	3
L7	0358	820923	70.7	3.5	31°56.0 77°34.1	"	4
L7	0407	820923	72.8	3.1	31°56.2' 77°33.6'	"	5
L7	0425	820923	[illegible]	3.0	31° [illegible] 77°31.95	"	6
L7	0445	820923	72.7	3.2	31°57.0 77°31.4	"	7
L7	0500	820923	68.8	3.4	31°57.3' 77°30.4	"	8
L7	0516	820923	74.3	2.85	31°57.6 77°29.5	"	9
L7	0525	820923	73.5	4.0	31°57.7' 77°28.9'	Datasonics Fish off, 3.5 KHz on	10
transit	0602	820923	126.1	5.2	31°59.5' 77°25.4'	3.5 KHz	11
"	0628	820923	242.3	6.1	31°58.6' 77°27.3'	"	12
"	0735	820923	—	—	31°56.3 77°34.0	"	13
S14	0846	820923	85.7	4.5	31°55.4 77°37.7	"	14
L7S14	0856	820923	77.6		31°55.4 77°36.7	3.5 KHZ	15
L7S14	0901	820923	52.47	3.6	31°55.5 77°36.4	"	16
L7S14	0919	820923	79.8	4.9			17
L7S14	0933	820923			31° [illegible] 77°38.8	3.5 KHZ	18
L7S14	1023	820923	66.1	2.9	31 55.3 77°38.0	"	19
L7S14	1041	820923	115.5	1.9	31°55.5N 77°36.7W	"	20
L7	1200	820923	246.	5.5	31°53.3N 77°39.3W	"	21
L7	1305	820923	246.	5.8	31°50.8N 77°46.2W	"	22
transit	1400	820923	245	6.0	31° 48.48N 77°52.2W	"	23
transit	1600	820923	235.7	7.3	31°40.7' 78°5.3'	"	24
transit	1615	820923	—	—	31° 39.6' 78°7.0'	"	25
transit	1822	820923	230	8.3	31° 29.9' 78°22.8'	"	26
transit	1902	820923	228	8.8	31° 26.3' 78°27.9'	"	27
S15	1926	820923	251	4.2	31°24.7' 78°30.5'	"	28
S15	1927	820923	249	3.6	31°24.7' 78°30.6'	"	29
S15	1947	820923	144	0.5	31°24.6' 78°30.6'	"	30
S15	2013	820923	272	0.1	31°24.3' 78°30.0'	"	31
transit	2107	820923	163.7	8.8	31°19.5' 78°28.4	"	32
"	2200	820923	170.3	8.3	31° 12.4' 78°26.2	"	33

LINE 8 (IS THIS INDICATED ELSEWHERE?)

(9)

JB

AREA Blake plateau N.E. Nodule Area

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	~~MAGNETICS~~ WSPD (WTRK)	COMMENTS
1	2 sec.	4 sec Line	—	—	—	3.4 (78)	
2	"	"	—	—	—	3.3 (81)	
3	"	"	—	—	—	3.3 (78)	
4	"	"	—	—	—	3.4 (76)	Bottom dropped out ~ 160m
5	"	"	—	—	—	2.5 (76)	
6	"	"	—	—	—	[illegible] (69)	depth [illegible]
7	"	"	—	—	—	3.1 (72)	depth 835m
8	"	"	—	—	—	3.2 (72)	depth
9	"	"	—	—	—	2.1 (99.6	Angus Angus coming up
10	1 sec	375 - 1125 m	—	—	—	3.7 (78)	Fish out of water
11	"	"	—	—	—	—	Steaming towards S14
12	"	"	—	—	—	3.6 (76)	"
13	"	"	—	—	—	—	180 m of relief in 1400m
14	"	"	—	—	—	4.2 (79)	Gravity core over (700 m)
15	"	"	—	—	—		C-8 did not trip!
	"	"		—	—	3.6 (74.8)	C-8 tripped wire depth 810 m
17	"	"	—	—	—	5.6 (74.3)	C-8 NOT successful
18	1.0	375 - 1125 m					ON ROUTE BACK TO STA 14
19	"	"	—	—	—	3.0 (48.6)	ON STA. 14 FOR CORE 9
20	"	"	—	—	—	—	CORE 9 TRIPPED
21	"	"	—	—	—	3.5 (80)	Steaming to station # 15
22	"	"	—	—	—	3.5 (79)	
23	"	"	—	—	—	3.4 (86)	depth
24	"	"	—	—	—	1.9 (83)	depth 615m
25	"	"	—	—	—	—	Increase in bottom topo - depth 535m
26	"	"	—	—	—	1.4 (69)	
27	"	"	—	—	—	0.6 (64)	RNG to S15 1.75 mi
28	"	"	—	—	—	1.8 (57)	0.8 mi pas S15
29	"	"	—	—	—	0.8 (71)	ready to dredge bridge to drift
30	"	"	—	—	—	2.9 (97)	(D8) dredge on bottom depth 635m
31	"	"	—	—	—	1.9 (338)	dredge off bottom depth 632 m
32	1.0	375-1125	—	—	—	0.8 (42.6)	ON ROUTE TO STA. 16
33	"	"				0.6 (351.5)	" "

SHIP/CRUISE NO./LEG GYRE 82-11
CHIEF SCIENTIST F. T. MANHEIM

LINE START / END	TIME	YYMMDD	CRS/HDG	SPD	NAVIGATION	SEISMIC SYSTEM	
TRANSIT	2315	820923	162.0	5.2	31° 2.05 78° 24.26	3.5 KHZ	1
16	2329Z	820923	—	—	31° 1.39 78° 23.19	fish in	2
1st block	0028Z	820924	178	3.1	31° 1.8' 78° 23.6'		3
1st block	0042Z	820924	135	3.3	31° 1.2 78° 23.0		4
	0054	820924	314	6.0	31° 1.0 78° 22.0	3.5 kHz	5
2nd block run	0119	820924	139	3.7	31° 1.2 78° 23.4	"	6
	0129	820924	136	3.4	31° 0.76 78° 22.87	"	7
3rd block run	0153	820924	125	3.8	31° 1.13 78° 23.59		8
	0206	820924	140	3.3	31° 0.6 78° 23.0		9
—	—	—	—	—	—	—	10
Dry run	0224	820924	132.	1.9	31° 1.1 78° 23.5	3.5 KHZ	11
STA. 16	0330	820924	99.5	1.08	31° 1.03 78° 23.65	Datasonics fish	12
STA. 16	0411	820924	345	[illegible]	31° 6.68 78° 23.20	"	13
STA. 16	1012	820924	108.8	.86	31° 0.97' 78° 22.84'	"	14
STA 16	1220	820924	102.9	1.1	31° 1.00' 78° 23.39'	"	15
STA 16	1405	820924	276.0	1.1	31° 0.905' 78° 22.947'	"	16
STA 16	1500	820924	120.8	.33	31° 0.907 78° 22.880	"	17
STA 16	1600	820924	93	1.28	31° 0.897 78° 23.00	"	18
STA16	1951	820924	284	.8	31° 0.89 78° 23.4	Datasonics Fish	19
STA 16	1952	820924	[illegible]	1.1	31° 0.91 78° 23.4	"	20
STA 16	2046	820924	114.5	1.8	31° 0.83 78° 23.2	"	21
STA 16	2102	820924	295	.96	31° 0.733 78° 22.996	"	22
STA16	2104	820924	172.5	.84	31 0.713 78° 23.0	Datasonics Fish	23
STA16	2104	[illegible]	—	—	31 0.713 78° 23.0	3.5KHZ	24
STA 17	2224	820924			31° 0.9' 78° 22.4'	3.5 KHZ	25
STA 17	2234	820924	294.6	2.8	31° 1.19 78° 23.00	"	26
STA 17	2245	820924	289	.73	31° 1.27 78° 23.21	"	27
STA17	2253	820924			31° .3' 78° 23.[illegible]	"	28
STA17	2300	820924	281.4	.78	31° 1.33 78° 23.40	"	29
STA18	2342	820924	282.6	.88	31° 0.957 78° 22.62	"	30
STA 18	2352	820924	275.1	0.9	31° 0.99N 78° 22.5W	"	31
STA 18	00120	820925	274.7	0.8	31° 1.024 78° 23.17W	"	32
	0028	820925	272	.8	31 1.02 78° 23.4	"	33

AREA BIAKE PLATEAU

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL# START / END	WSPD (WTEK) ~~MAGNETICS~~	COMMENTS
1	1.0	375 - 1125	—	—	—,	1.8 (235.0)	TO STN. 16
2			—	—	—	—	1ST Ten Blocks OVER
3						2.0 (324)	starting 1st block deployment num
4						1.7 (344)	deploying 11 - 42 (12?-12)
5	1.0	375 - 1125				.9 (340)	return down screen for another run
6						1.6 (344)	start 2nd deployment
7						1.5 (343)	43-73 end 2nd deployment - returns
8						1.6 (352)	start 3rd deployment
9						4.5 80	two at a time starting with 93794
10	—	—	—	—	—	—	← 113-119 at last point
11						2.0 (330)	START Dry run for camera
12						2.8 (311)	Angus Argus in, depth 800m, fish in
13						2.6 (291)	
14	1.0					1.6	Declutched
15						1.6 (281)	depth 790 m
16						2.2 (327)	
17						.8 (300)	depth 795 m
18						.8 (263)	
19	3 sources			1		1.7 (322)	TAPE #1 OFF
20		"	—	2	—	1.7 (320)	TAPE #2 STARTED
21		"	—	2	—	1.6 (306)	TAPE #2 OFF
22						2.2 (327)	Argus Argus coming up
23	3 sources					—	Datasonics OFF
24	1	375-1125	—	—	—	2.1 (314)	3.5 KHZ ON
25	"	"					130 - 221 L - Strong relief
26	"	"	—	—	—	0.5 (57)	Stopped Engines Recovering Dredge
27		"				1.3 (155)	796m D-9 on bottom
28		"	—	—	—	—	TINY NIBBLE + 3,000 lbs bite
29		"	—	—	—	—	D-9 off bottom
30		"	—	—	—	1.1 (174)	Dredge 10 over side
31		"	—	—	—	1.4 (165)	D-10 on bottom
32		"				1.3 (149)	Bite on Dredge 10
33		"				1.8 (190)	off Bottom

SHIP/CRUISE NO./LEG GYRE 82-11

CHIEF SCIENTIST T. T. Manheim

LINE START / END	TIME	YYMMDD	CRS/~~HDG~~ TRK	SPD	NAVIGATION	SEISMIC SYSTEM	
STA 18	0040	820925	276	1.0	31° 1.037 78°23.62	3.5 KHZ	1
STA 19	0135	820925	120	5.3	30°59.55 78°20.57	"	2
STA 19	0200	820925	318	1.9	30°59.80 78°20.91	"	3
STA 19	0218	820925	270	1.1	30°59.8 78°21.28	"	4
STA 19	0239	820925	253	1.0	30°59.8 78°21.7	"	5
STA 19	0241	820925	259	1.0	30°59.8 78°21.8	"	6
STA 19	0300	820925	271	1.1	30°59.8 78°22.1	"	7
STA 20	0335	820925	59.5	1.5	31° 1.05' 78°23.0'	"	8
STA 20	0359	820925	266.4	.84	31° 1.029S 78°23.21S	"	9
S20	0430	820925	—	—	—	"	10
S20	0454	820925	328	2.4	31° 1.13' 78° 23.20'	" & 27 kHz pinger	11
S20	0605	820925	251	.82	31° 0.939 78° 24.30	" & 27 kHz pinger	12
S20	0616	820925	—	—	31° 0.97 78°24.24	—	13
S20	0616	820925	—	—	31° 0.90 24 78° 24.438	3.5 kHz	14
S20	—	820925	—	—	—	" & 15 kHz pinger	15
S20	0736	820925	269	1.0	31° 0.965 78° 23.353	" "	16
	0759	820925	—	—	—	27 kHz pinger	17
		820925			31° 0.89' 78°24.0'	3.5 kHz	18
S20	0854	820925	267	.96	31° 0.978' 78° 23.18'	3.5 kHz pinger	19
	0901						20
S20	1000	820925	251	.93	31° 0.757' 78° 24.26		21
S20	1036	820925				27 kHz Pinger	22
S20	1114	820925	258	1.0	31 0.919 78°24.00'	3.5 kHz	23
S20	1217	820925	83	1.0	31° 1.09 78° 23.9	3.5 kHz	24
S20	1228	820925	261	1.1	31° 1.041 78° 23.185	3.5 kHz	25
transit	1308	820925	289	5.8	31° 1.0' 78° 24.7'	"	26
S21	1620	820925	—	—	31° 7.8' 78° 56.5'	"	27
S21	1622	820925	257	0.6	31° 7.8' 78°56.5'	"	28
"	1643	"	185	0.6	31°07.8 x 78°56.8	TAPE 3.5 + P.P.	29
"	"					P.P.	30
"	1705	820925	258	0.6		NAV	31
							32
"	1705	820925	—	—	31° 7.7 78° 57	TAPE	33

AREA Blake Plateau

TIME ZONE Gmt

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	WSPD (WTRK) ~~MAGNETICS~~	COMMENTS
1		375 – 1125	–	–	1.4 (185)		Dredge up #10
2		"	–	–	.7 (114)		Rough Terrain area
3		"	–	–	1.2 (220)		Dredge #11 over
4		"	–	–	1.2 (167)		Dredge #11 on bottom
5		"			1.3 (149)		4000 lb bite, on
6		"	–		1.2 (150)		10000 lb bite, on way up
7		"	–	–	1.6 (198)		Dredge #11 on board
8					1.8 (336)		on station 20, holding while core tip welded
9					1.7 (187)		Core 10 in water depth 800m
10	"	"	–	–	–	–	lost core cutter (tip) on bottom
11	"	"	–	3 3/8	–	1.6 (285)	pavement pinger 2 lowered
12						1.7 (190)	pavement pinger [illegible] up
13							3.5 kHz off to change paper
14							3.5 kH back on
15							pavement pinger 3a lowered, no signal
16						1.4 (200)	pavement pinger 3b lowered
17						[illegible]	3.5 KHz off
18							3.5 kHz on
19						1.3 (205)	pavement pinger 4 lowered, 3.5 KHz off
20							cable jumped pulley at 0906z
21							pavement pinger 4 coming up, return
22						[illegible] (188)	pavement pinger 5 lowered
23		375 - 1125				1.7 (188)	pavement pinger coming up
24		375 - 1125				1.5 (89)	Core 11 in water
25	"	"	–	–	–	1.9 (170)	Core 11 on bottom, coming up
26	"	"	–	–	–	.5 (263)	proceeding to next station
27	"	"	–	–	–	–	arrive station 21 – start to drift
28	"	"	–	–	–	1.5 (155)	pavement pinger in water (drifting)
29	–	–		4			START TAPE
30	–	–					Near bottom
31							.6 256° Current
32							Σ current meas.
33	–	–	–	4	–		TAPE #4 OFF

SHIP/CRUISE NO./LEG GYRE 82-G-11

CHIEF SCIENTIST Frank T. Manheim

LINE START / END	TIME	YYMMDD	CRS/~~HDG~~ TRK	SPD	NAVIGATION	SEISMIC SYSTEM	
[Earlier data for beginning of						Canyon — smooth	1
L		interface			1620		2
		1536					3
							4
							5
	1536				31°06.16	ROUGH	6
					78°50.53	SMOOTH PAVEMENT	7
	1620				31°07.82		8
					78°56.47		9
S21	1756	820925	267	0.7	31°7.8' 78°56.5'	3.5 KHz	10
S21	1807	820925	262	0.7	31°7.8' 78°56.6'	pavement pinger	11
S21	1901	820925	278	0.5	31°7.8' 78°57.2'	"	12
S21	1948	820925	275	0.6	31°7.9' 78°57.6'	—	13
trans.←	1942	820925	93	5.6	31°7.9' 78°57.3'	3.5 KHz	14
S22	2044	820925	291	9.2	316.1 7850.7	3.5KZ	15
S22	2100	820925	95.5		31°5.9' 78°49.6'		16
S22	2108	820925	324	2.6	31°5.9' 78°49.4'	27, 15, 3.5KHz - Datasonics Fish	17
L8	2128	820925	285	1.7	31°6.1' 78°50.16'	"	18
L8	2140	820925	280	1.5	31°6.14 78°50.51'	"	19
L8	2209	820925	291	1.5	31°6.36 78°51.40'	"	20
L8	2232	820925	295	1.6	31°6.6 78°52.05	"	21
L8	2332	820925	283	2.2	31°7.4 78°54.6	"	22
L8	0049	820926	277	2.7	31°7.8 78°57.8	3.5 KHz	23
"	"	"	"	"		"	24
L8	0119	820926	101	1.4	31°7.5 78°57.3	"	25
Transit	0209	820926	199	7.5	31°7.4 78°56.5	"	26
S23	0211	820926	173	1.4	31°7.18 78°56.47	"	27
S23	0226	820926	329	1.0	31°7.4 78°56.6	"	28
S23	0241	820926	3.9	2.2	31°7.8 78°56.7	"	29
S23	0252	820926	57	2.5	31°8.2 78°56.4	"	30
S23	0305	820926	65	2.7	31°8.5 78°55.8	"	31
Transit	0329	820926	111	8.4	31°7.8 78°53.4	"	32
S24	0355	820926	312	1.1	31°6.0' 78°58.2'	"	33

AREA Blake Plateau

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	WSPD (WTRK) MAGNETICS	COMMENTS
1							
2							
3							
4							
5							
6							
7							
8							
9							
10	1.0	375 -1125 m	—	—	—	1.4 (160)	pavement prizer in water
11	—	—	—	—	—	0.9 (180)	3.5 KHz turned off
12	—	—	—	—	—	0.8 (156)	contact with bottom
13	—	—	—	—	—	3.5 (228)	start to steam to next station
14	1.6	375 - 1125 m	—	—	—	3.5 (300)	3.5 KHz on
15		"	—	—	—	.9 (199)	coming upon Sta 22
16		"	—	—	—		Angus going over side
17	2.0						3.5KHZ. shut down - Datasonics fish on
18	2.0						ANGUS TAKING PICTURES GOING TO BOTTOM
19	2.0	3 SOURCES	—	—	—	1.4 (125)	" " ON BOTTOM
20	2.0	"	—	—	—	2.2	2128Z-2200Z ~40m of sediment
21	2.0	"	—	—	—	0.5 (107)	Sped up Angus ~ 1 Kt.
22	2.0	"	—	—	—	.9 (99)	OFF COURSE 2 mi from Canyon "FALSE ALARM"
23	1.0	375-1125	—	—	—	3.1 (346)	Fish coming up
24	"	"	—	—	—		Angus coming up
25	"	"				.4 (346)	Angus up
26	"	"	—	—	—	1.8 (273)	Steam to STA 23
27	"	"	—	—	—	1.9 (198)	Dredge 12 going over
28	"	"	—	—	—	1.0 (219)	Dredge 12 on bottom
29	"	"	—	—	—	1.0 (320)	Dredge comes up
30	"	"	—	—	—	1.5 (345)	
31	"	"		—		2.3 (332)	Dredge on board
32	"	"	—	—	—	2.5 (39)	Steam To Station 24
33	"	"	—	—	—	1.7 (346)	on the station, dredge in

SHIP/CRUISE NO./LEG GYRE 82-G-11

CHIEF SCIENTIST Frank T. Manheim

LINE START / END	TIME	YYMMDD	TRK CRS/~~HDG~~	SPD	NAVIGATION	SEISMIC SYSTEM	
S24	Ø415	82Ø926	300	2.1	31° 6.3' 78°5Ø.6'	3.5 KHz	1
S24	Ø433	82Ø926	351	1.1	31° 6.6' 78° 51.Ø'	"	2
S24	Ø443	82Ø926	303	1.Ø	31° 6.7' 78° 51.1'	"	3
S24	Ø456	82Ø926	293	2.1	31° 6.8' 78° 51.5'	"	4
S24	Ø617	82Ø926	41	1.9	31° 6.Ø' 78° 5Ø.9'	"	5
S24	Ø631	82Ø926	352	1.Ø	31° 6.3' 78° 5Ø.5'	"	6
S24	Ø647	82Ø926	346	Ø.7	31° 6.5' 78° 5Ø.5'	"	7
S24	Ø656	82Ø926	154	1.8	31° 6.5' 78° 5Ø.5'	"	8
S24	Ø701	82Ø926	147	1.8	31° 6.4' 78° 5Ø.4'	"	9
S24	0702	82Ø926	—	—	31° 6.4 78 50.4	"	10
transit	Ø726	82Ø926	236	9.2	31° 6.5' 78° 5Ø.9'	"	11
Sta. 25	Ø845	82Ø926	29	1.6	31° 0.Ø 78° 59.86	"	12
Sta 25	Ø859	82Ø926	28	1.6	31 0.5 78° 59.6	"	13
S 25	0914	82Ø926	71	0.6	31 0.8 78° 59.4	"	14
S25	0924	82Ø926	48	1.9	31Ø.85 78° 59.2	"	15
transit	[illegible]	82Ø926	144	9.6	30° 54.6 78° 52.3	"	16
S26	1100	82Ø926			30° 52.0 78° 49.7	"	17
S26	1112	82 Ø926	62	1.2	30° 52.15 78° 49.47	"	18
"	1137	"	—	—	30° 52.4 78° 48.8	"	19
Transit	1237	820926	136	10.1	30° 47.0 78° 41.9	"	20
transit	1306	82 09 26	137	10.4	30° 44.3' 78° 39.1'	"	21
S 27	1312	820926	139	1.6	30° 42.9 78° 38.0'	"	22
S 27	1324	820926	105	1.1	30° 42.84 78° 37.83	"	23
S 27	1334	820926	113	1.2	30° 42.80 78° 37.63	"	24
S 27	1352	820926	127	1.1	30° 42.6 78° 37.4'	"	25
Transit	1400	820926	189	10.1	30° 40.8 78° 37.3	"	26
S 28	1450	820926	55	1.7	30° 35.0 78° 39.3	"	27
S 28	1501	820926	89	1.1	30° 34.99 78° 39.11	"	28
S 28	1556	820926	99	.8	30° 34.8 78° 38.3	"	29
S 28	1609	820926	135	.5	30° 34.7 78° 38.1	"	30
S 28	1615	820926	116	1.0	30° 34.6' 78° 37.8'	"	
transit	2000	820926	278.6	11.8	30° 18.5' 78° 51.9'	"	

AREA Blake Plateau

TIME ZONE GMT

	SWP	PROGRAM / SCALE	FILTER HI/LO	TAPE NO. START / END	DATA ROLL # START / END	WSPD (WTRK) ~~MAGNETICS~~	COMMENTS
1	1.0	375 - 1125 m	—	—	—	2.0 (37)	dredge on bottom (D13)
2	"	"	—	—	—	1.5 (24)	weak link snapped - 14,000 lb.
3	"	"	—	—	—	1.8 (31)	dredge coming up from bottom
4	"	"	—	—	—	7.4 (7)	wire on board - dredge gone
5	"	"	—	—	—	1.4 (334)	dredge in water (D14)
6	"	"	—	—	—	1.6 (224)	dredge on bottom
7	"	"	—	—	—	1.1 (223)	bringing in dredge, missed canyon
8	"	"	—	—	—	3.3 (156)	dredge anchored - backing off
9	"	"	—	—	—	3.8 (156)	dredge released from bottom
10	"	"	—	—	—	—	clear of bottom
11	"	"	—	—	—	0.4 (262)	steaming to next station (31°, 79°)
12	"	"	—	—	—	0.8 (188)	Stopped [illegible] Sta. 25
13	"	"	—	—	—	1.5 (216)	Dredge on bottom (D 15)
14	"	"	—	—	—	.7 (163)	Dredge anchored on bottom
15	"	"	—	—	—	1.7 (131)	Dredge off bottom 0-15
16	"	"	—	—	—	2.3 (102)	ON ROUTE TO STA. 26
17	"	"	—	—	—	—	ON STATION 26 770 m
18	"	"	—	—	—	1.6 (295)	S26 (D-16) on bottom 825 m
19	—	—	—	—	—	—	Dredge off bottom 740 m
20	"	"	—	—	—	2.0 (110)	Steam to Sta. - 27
21	"	"	—	—	—	4.9 (131)	"
22	"	"	—	—	—	1.0 (136)	Dredge 17 over
23	"	"	—	—	—	1.3 (105)	Dredge 17 on bottom
24	"	"	—	—	—	1.0 (114)	Dredge 17 on way up
25	"	"	—	—	—	1.1 (214)	Dredge on board
26	"	"	—	—	—	2.9 (152)	Steam to Station # 28
27	"	"	—	—	—	.7 (30)	Dredge 18 over
28	"	"	—	—	—	.4 (147)	Dredge 18 on bottom
29	"	"	—	—	—	.7 (102)	Dredge 18 off bottom on way up
30	"	"	—	—	—	.8 (197)	Dredge 18 on board
			—	—	—	—	Sampling complete, course for port.
						.5 (160)	rough, windy, head seas