

WATCH LOG

1

R.V. FRED H. MOORE CRUISE 5 (FMOS)

LEG 1 GALVESTON →

CAPT - JOHN LESLIE

CHIEF SCIENTIST - JOSEPH D. PHILLIPS

SCIENTISTS:

R. LU

E. ROSENCRANTZ

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B. BUTTERFIELD

M. BUTTERFIELD

G. PEARCY

A. HORTADO

S. LAPIN

S. BOND

R. PHAIR

L. SANCHEZ

D. ANGSTADT

J. GILROY

B. STEVENSON

D. VASCO

MARINE SCIENCE INST.
STAFF

UNN OF TEXAS - AUSTIN
STUDENTS

18 JUNE 1980

TIME(Z)

LOCAL TIME
(-5)

1240 LEAVE MSI - GALVESTON DOCK

19 JUNE

1120 LEAVE GRASSO FUEL DOCK - PELICAN ISLAND
TOPPED OFF ALL TANKS

Time(Z) 19 JUNE 80 FM OS LEG 1 HDG SPD

1300 BEGIN 3.5 kHz Echo Sounding 145 10.0

8-12(L) WATCH LAPIN, SANCHEZ, GILROY

*1600Z - Change in speed - slow to 4 kts,
start to work aft - various speeds
*1601Z both engines ON STOP

1617Z LET OUT STREAMER 500 M. to test
winch

1632Z 490 M. of streamer out

1636Z 2 engines ON

1655Z DEAD SLOW

1656Z Back to 2 engines

1714Z DEAD SLOW on 2 engines

1724Z BEGIN STREAM DEPLOYMENT

1700Z STEVENSON
12-4 AUGUSTADT

1725 ROSENKRANTZ; STEVENSON, AUGUSTADT.

CONTINUE STREAMER / WINCH DEPLOYMENT TESTING

1735 C/O TO MANUEVER SHIP DOWNWIND TO RECOVER
STREAMER

~ 005 DEAD
~ 350 SLOW

1808 DEAD IN WATER TO RECOVER STREAMER
1836 Section 50 of streamer brought on board; BACKING DOWN.
1849 SECTION 40 ONBOARD
1857 SECTION 30 ONBOARD

~ 325 DLW
BD

STREAMER ABOARD RETURNING TO FULL AHEAD

COURSE CHANGE TO 145°

Dead slow on 2 engines, deploy magnetometer

CP 145 10 FA

Fm 05-1 19-20 JUNE 80

(1957)

HDG SPD

1957 Full spd ahead for mag. test

10

2100 4-8 WATCH COMING ON
WITH BATHYMETRY,
LORANC, SATNAV#1,
& MAG.A.

Ron Phair
St. B. 1
J.W. Vasco

0100Z 8-12 WATCH - BATHYMETRY, MAG.A, LORANC AND
SATNAV. #1
LAPIN, Gilroy + Sanchez-B.

11.9

0500Z 12-4 watch - ✓ in Angstadt, Stevenson, Rosencrantz 13.5 10.6
0900Z 4-8 " - ✓ in Bond, Phair, Vasco

0903Z irregular ping noticed in depth sounder
(every 3rd pulse missing)

0928Z 3.5 kHz shut down for repair

0935Z 3.5 kHz depth sounding resumed: problem = dirty EPC belt

1103Z 3.5 kHz shut down for paper change

1113Z Resume 3.5 kHz sounder

1114Z Speed change: reduced to check main engine oil

1300Z 8-12 watch - Sanchez, Gilroy, Lapin

134° 11.4

1500Z SLOW TO TEST GUNS

1503Z 1 GUN IN WATER - BEGIN TESTING
SPD 7.2 and slowing

(1505Z)
(1507Z)

137° 6.5
4.9

1505Z SPD 6.5

1507Z SPD 4.9

1522Z DOPPLER SONAR DOWN
SAT NAV #2 SYSTEM UP & RUNNING

1526Z 3 SHOTS OFF
testing gun - lost compressor

FM 05-1

TIME(Z)

20 JUNE 80

HDG SPD

137°

1532Z Compressor still down

1539Z Firing - 4 guns - adjusting air pressure

1554Z ~~STARL~~ FIRING4.0
3.41614Z RESUME ORIGINAL SPD + CSE - THROUGH TESTING
AIR GUNS

1617Z 141° 5.6

1623Z BACK ON COURSE 143° 11.0

1640 Magnetometer Digital On the Blink Chronic
Misprinting

1700 Shift Change - Angst, Stevenson, Rosencrantz

1903 Sonobuoy TEST #1 CHAN 5 - (MOBILE?)

1939 ESSENTIALLY USELESS ON ARR-S2 RECEIVER,
- MANY DROPOUTS
STILL OK ON SCANNER RECEIVER

2132 Streamer successfully assembled w/ Norwegian buoys

2150 Approaching Campeche escarpment, bathymetry
went up out of view.

2249 Swerving to avoid boat & slowing down.

0100Z 8-12 WATCH

LAPIN, Gilroy + Sanchez-Barraza.

0200Z INSTRUMENTS RUNNING OK.
SEAS ARE CALM WINDS PROBABLY 8-10 MPH.
INSTRUMENT TO MEAS. WIND SPEED IS BROKEN.

TIME FM 05-1
(Z) 21 JUNE 80

HOG SPD

0300Z INSTRUMENTS WORKING FINE. SEAS CONDITION IS CALM, WINDS HAVE SAME DIRECTION SE ABOUT 8 TO 10 M.P.H.

0400Z NO CHANGE AT ALL!

0500Z 12-4 Shift change. Stevenson, Angstadt, Rosenkrantz

0530Z Weather clear and seas calm. Wind light \approx 5 mph. Mag. trailing well. Sea State 2

0630Z Sea State 2. wind \approx 6-7 mph. Lab running smoothly

0730Z Sea St. 2 SE wind \approx 6-7 mph. Lab functioning properly

0830 Sea calm SE wind \approx 5 mph. Mag. trailing smoothly

0905Z SHIFT CHANGE - IN TRANSIT, GALVESTON TO CTZ - LEG 1 - YUCATAN BASIN.

ALL CONDITIONS AS BEFORE. ALL INSTRUMENTS WORKING SMOOTHLY.
POSITIONS FROM LORANC, SKNAU 1, SKNAU 2 ALL SHOW CLOSE CORRELATION.

0952 The night is dark,
the sea is calm.

Where porpoise LARK,
there is no palm.

1050 Sea Calm, magnetometer fine, All well in Lab, S.S. \approx 2

1206 Choppy, 3 foot swells and whitecaps, Sea State 3
All instruments functioning well.

1300Z Sanchez, Gilroy, Lapin ON WATCH

FM 05-1 21 JUNE 80

TIME(Z)

HDG SPD

1330Z DEAD SLOW TO DEPLOY AIR GUNS FOR TESTING

135° 4.4

1334Z SPD = 3.5 KTS

3.5

1347Z TESTING GUNS UNTIL 1403Z SPD = 4.65 KTS

4.65

LORAN C - OUT OF ORDER

1406Z

4.8 KTS 136°

1417Z SHUT DOWN 3.5 KHZ. TO CHANGE BELT

1421Z SPD = 6.0 KTS. - 3.5 KHZ. BACK ON

1429Z SONOBOY IN WATER - CHANNEL 30

1504 TEST GUNS - FIRING 4 GUNS

1505 *LORAN C - Remains out of order. Using Satellite # 1 System For Course, Heading and Navigation Fixes

1517Z SLOW TO DEAD SLOW ON 2 - FINISHED SHOOTING AIR GUNS

1521Z RESUME AIR GUN TESTS - 3 GUNS

137° 3.2

1523Z SPEED UP TO 6 KTS. CSE = 137° SPD = 3.2

1527Z STOP FIRING

1529Z NOTE SPEED →

138° 6.2

1530 Maggy digital on the blink again

1541 FIRING GUNS - NOTE SPD →

5.6

1543 STOP FIRING

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TIME(Z)

HDG SPD

1544Z	SLOW ENGINE #2 to test GUN #4		
1547Z	3.3 KTS,	136°	3.3
1550Z	BEGIN TESTING GUN #4	138°	2.8
1614Z	STOP GUN #4 TESTING		
1615Z	WILL TEST ALL 4 GUNS @ 20 SEC REP RATE		
1637Z	LOST PRESSURE - WILL TRY TO GET PRESSURE UP COMPRESSOR DOWN		
1640Z-	COMPRESSOR UP - FIRING AGAIN		
1642Z	COMPRESSOR DOWN		
1646	COMPRESSOR UP RESUME TEST		
1650	Maggy Digital appears to be Fully Functional again		
1700	12-4 watch checks in		
1742	SKY clear Wind 7-8mph. Seas a bit choppy. Still testing air guns. Gun 4 not functioning properly	136°	3.6
1807	SLOW TO BRING IN AIR GUNS -	c/s	D/S.
1831	Full ahead, air guns out of water	139	2.3
1930Z	Sea State 2 ⁺ , Mag'meter trailing nicely, clear sky		
1951Z	Mag digital display not matching tape		
2001Z	Mag display working OK		
2100	4.8 WATCH ON - PROCEEDING TO START OF CTZ-1 - MAGNETOMETER STREAMED -		
2130Z	Sea State 3 ⁻ , All instruments functioning.		
2212	Change course to 156	156	9.0

21-22 June FM 05-1

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TIME		HDG	SPD
2227	Increase pulse width to .9 on 3kHz echosounder		
2330	ENCOUNTERING VERY STRONG NORTHELY CURRENT 3-4 KNOTS 10-20 KT WINDS SHIP SLOWED TO 7.0 KTS @ 1250 RPM/2		7.4
0005 Z	Change course to 170°	170	8.0
0051 Z	Change course to 156°	156°	
0100 Z	SANCHEZ, LAPIN, GILROY ON WATCH (8-12)		
	LOST WATER BOTTOM ON 3.5 AT 0340 Z SWITCHED TO 8 SEC. SWEEP - NO GOOD BACK TO 1 SEC SWEEP AT 0455 Z		
0500 Z	Angstadt, Stevenson, Rosencrantz (12-8)		
0600 Z	BATHYMETRY STILL UNDEFINED TRIED VARIOUS SWEEP RATES TO NO AVAIL, RETURNED TO 1 sec SWEEP		
0630 Z	MAGNETOMETER A OK TYPE 5 SEAS		
0730 Z	EVERYTHING NORMAL STILL NO BATHYMETRY SEA STATE 5		
0830 Z	SAME AS BEFORE		
0900 Z	BOND, VASCO & PHAIR (4-8)		
0903 Z	DEAD ON TWO		
0911 Z	Streamer being deployed		
0928 Z	2.2 Kts on idle on 2		
1040 Z	3-4 Swells 4-5 seas		
1102 Z	MAGGIE OFF as we go to 1 engine		
1116 Z	" Onboard		
1132 Z	ON one engine		
1156 Z	Have weighted the outboard 10 sections & birding 15		

22 JUNE

FM 05-1

9

TIME

HDG SPD

~~51~~

1250 DEPTH INDICATOR #2 - OPEN (TIME 1250)

BIRD #6 ON SECTION 31

1300 8-12 WATCH - GILROY, SANCHEZ, LAPIN ON WATCH 216 1.3

~~1310~~1340 REPAIRED SHOT POINT COUNTER
7999 → 8000 TRANSITION OK
BUT 3999 → 4000 GOES TO 0000 INSTEAD1600 CALIBRATE DI #4 ZERO PRIOR TO CALIBRATION
WAS -1 ft

DI'S #1 & 2 NO READING

1700 New Watch Comes On - 12-4 Condition as
before; playing out streamer. Section #80 at 1700 Z. Repairing
and patching streamer as let out.
See skate 3, easterly swells of 3 to 5 feet. Winds light.

1705Z Tested and calibrated depth indicator #5

2045Z Tested and calibrated near depth indicator #6.

2055Z Streamer out - come to all stop to center streamer on winch.

2057Z Change speed to one engine - dead slow.

153 ~2145

2059Z 96 section streamer deployed. In process of hooking up cables -

2107Z Preliminary check of traces shows all working. Sea's deck.
OK.2118 Turning to STRAIGHTEN STREAMER, to 170°
PREPARING guns for test.

22 JUNE FM 05-1

10

SP. CSF

2121/2 RAIN IN AREA

2124 Guns 1, 3, 4 in water

2134 Magnetometer deployed

2204 " turned on

2206 guns 1 & 3 firing OK, 2 & 4 being looked at.

2212 Changing course from 186° to 175° to turn into line CT2-1
5°/3 min.

2234 COARSE 1440 speed 2.6 kts, turning on to track line to begin firing, magnetometer working.

2310 Heading onto 060° , Sea State 3

0015 Increasing speed to 5.5 kts.

0100 8-12 WATCH GILROY, SANCHES, LAPIN

0151 CHANGE CSE TO 075°

0300 START RECORDING LINE CT2-1

0415 DOWN TO 2 AIR GUNS AND THEN TO 3 INTERMITTENTLY.

0416 3 GUNS BACK TO NORMAL.

0500 12-4 watch on ROSENCRANTZ, ANGSTADT, STEVENSON

0630 Sea State $\approx 2\frac{1}{2}$.

0840 Adjusted air guns in Lab.

0922 Change course to 043

0951/3 lost SP's 976-1003 when transport B lost
2nd record.

1100 #32, 34 dead traces on monitor SP # 1163

1125 Cleared "B" heads

1150 " "A" heads lost 5 records on "B" (2215-2220)

1300 8-12 WATCH

1305 FINISHED LINE CT2-1A

5.3 53

5.3 43

5.3
~~4.8~~ 43

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TIME(Z)		SPD	CSE
1325	4 GUNS NOW FIRING		
1418Z	SONOBUOY #2 CHAN 29		
1431Z	SONOBUOY #3 CHAN 17 IN WATER		
1440	STILL SHOOTING LINE CT2-1-B		
	SONOBUOYS RECORDED ON DFS CH 51		
1453	CHANGE IN CSE TO 30°	5.0	30°
1605Z	CHANGE COURSE TO 250	5.0	25°
1700	NOON WATCH COMES ON <i>Rosenkrantz, Angstadt, Stevenson</i>		
1707	Dead slow / cause of nearby Freighter <i>Change course continuously too</i>	2.5	42
1720Z	Begin turning to right to avoid traffic		
1729Z	Beginning turning to left to regain track - Speed change to 5.5 KTS		
1745Z	CIC 020	5.5	20
1747Z	ON COURSE <i>FW</i>	5	
1830Z	C/S 5 KTS CIC 025	5.0	25
1834Z	<i>Course change</i>	5.0	26
1854Z	GUN Adjustments		
1912Z	Speed brought up to 24 FOLK - 5.5 KTS	5.5	
1930Z	CIC 028	5.5	28
1954Z	Monitor SP # 2438 indicates trace 34 come back alive	5.5	28
2110 -	1.8 MARCH -		
2200	Change course. line correction	5.5	032
2251	" " traffic turning right		
2253	" spd " " "	8.0	031
2343	coming back to contact speed successfully maneuvered to avoid tanker		

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TIME(Z)

SPD CSE

0100Z 8-12 WATCH : SANCHEZ, GILROY, LAPIN ON WATCH

5.3 230°

0200Z MAGGIE OK - CALM SEAS

0215 BEGIN TURN TO LINE 2 (5° per 3min)

NEW COURSE $\approx 160^\circ$ FOR LINE CT2-2

0251Z SLOW TO 4.1 KTS

0308Z START LINE CT2-2 RECORDING

0316Z COURSE = 160°

160°

NEW GEOMETRY FOR CT2-2 - using odd
numbered phones #47 is near trace

0342Z C/C TO 150° (MINOR ADJUSTMENT)

150°

0349Z Tour of Back Deck : Cable, Maggie ok
Byron Asleep

0425 C/C TO 145°

5.4 145°

0450 C/C TO 150°

150°

0500Z 12-4 Watch - All lab equip functioning normally.

0620 Tour of lab shows all equipment functioning properly.

0755 Adjusted course to 145° to compensate for westerly drift.
Course, speed made good over past 2 hrs - 165°, 5.4 Kts

5.4 145

0847 reduce speed to 5 kt. to ~~lower~~ ^{submerge} bird

5.0 145

0855 increase speed for bird adjustment

5.5

900 reduce speed for bird adjustment

5.0

0900 4-8 Watch enters the time light

0915 reduce speed for bird adjustment.

4.5

0934 COURSE CHANGE $\sim 30^\circ$ TO $\sim 120^\circ$

SPD CSE

0937	gun #1 is firing @ high (≈ 41 ms) delays		
1003	c/c 150	5.0	150
1020	c/s 5.5 kts	5.5	150
1110	c/c 155	5.5	155
1125	c/s 5.0 - lost SATNAV 2 attempting reload of papertape	5.0	155
1146	c/c 160	4.9	160
1154	c/s 5.5	5.5	160
1210	c/c Circling to reshoot CT2-2 to start @ position @ 0800		
	Course change of 5° every 3 min; begin 1210 Z		
1220	Course change of 5° every 2 min		
1255	Steady on CT2-2B	5.5 [#]	330 ^o
1308	c/s to 4.0 kts.	4.0 ^d	
1300	Watch change RP, SB, DV replaced by SL, TG, LS	4.0 [#]	330 ^o
1320Z	DEAD SLOW TO 2.5 kts at 1320 Z	2.5	344 ^o
1352	Increased Speed to 4 kts to get streamer to dive	4.0	
1355	Increasing Speed to 4.5 kts	4.5	
1406Z	Increasing to 5.0 kts - (STILL SHALLOW STREAMER)	5.0	
1415	Increasing to 5.5 kts	5.5	
1425	Increase to 6.0 kts	6.0	
1502	c/c to 180		
1600Z	LINE CT2-2 ABORTED - STOP RECORDING		
1509	C/C 1		
1510	Steady on 180 ^o		180 ^o
1535	CHANGE BELT ON 3.5 KHZ,		

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TIME		SPD	CSE
1542	BACK ON COURSE 330°	6.3	330°
1523	Air gun signal triggering event marked in the monitor record, Maggie + 3.5.		
1700	Noon shift comes on	6.1	324
1712	MAGGIE OFF PREPARING TO BRING IN STREAMER		
1722	START TURN DOWN WIND TO RECOVER STREAMER		
1725	MAGGIE ONBOARD		
1740	AIR GUNS ONBOARD		
1753z	Start recovering streamer	1.2	304
2023z	Bird in section 39 came on board		
2137	Streamer Recovered, increase speed to 8.0 kts and set cse to 037° to come on line. Only bathymetry being measured	8.0	037°
2240	Come to dead slow to re-deploy streamer	0.9	071°
2249	" " one engine.		
0004	Ahead on two		
0012	On 1 engine dead slow		
0410	STREAMER OUT - DEAD SLOW ON 2 SETS CHECK OK		
0414	C/C 200° 170		
0453	C/C 210		

FM 05-1

25 ~~24~~ JUNE 80

15

TIME Z

SP. CSE

0455 C/S 4.0 Kts
 0500Z - 12-4 watch reports
 0530Z Shooting of line CT2-2 **E** begins 6.0 205
 0600Z Sea State 2.
 0623Z 4th Gun back on line - 4 guns firing -
 0810Z CHARGE CSE -155
 0850 Sea St. 1.5 - quite calm. Maggy, Streamer trailing nicely 5.1 160
 0850 C/C 160
 0946 C/S slowdown for traffic (Cuban patrol vessel approaching from stern)
 1005 Adjusting Airguns ~~05~~ were malfunctioning
~~1005~~ due to pressure buildup.
 1009 back to normal firing times, speedup 6.7
 to avoid suspected Cuban vessel
 1015 back to normal Spd. 5.7 167°
 1025 Guns 1, 3 misfiring.
 1030 back to 3 guns (gun #3 misfiring) 4.8 155
 1035 4.8 155
 1055 Up on 4 guns.
 1122 C/C to 160°
 1200 C/C to 170°
 1300 New shift Tim Gilroy Luis Sanchez
 Sherri Lapin
 1420 C/C TO 165°
 1700 C/C TO 045 **TURN TO**
 LINE CT2-3 **BEGIN NEW LINE,**
 1755 TURN COMPLETE - BEGIN LINE CT2-3 POSITION 20°22.97'N
 83°19.91'W HDG 045. SPEED OVER LINE 5.5 KTS!
 - 24 KID DATA, 25 S FIRING INTERVAL.
 1825Z DIFFERENCE IN CLOCKS NOTED - SAT CLOCK AGREES WITH
 WWV. LAB CLOCKS - I.E. MAGNETOMETER, LOGM, RESET.
 TO WWV TIME
 1840 CHANGED SATNAV SILENT 700 PAPER
 1920 Sea State 2. Maggy & Streamer trailing well

FM 05-1 25 June, 80

Time Z

SPD CSE

2100Z 4-8 watch on duty; cast of characters includes Phain, Vasco and Bond

2131Z Gun #1 misfiring

2133Z Gun #1 out on generator change.
Radar & steering

2200Z Everything backup except one radar... 5.5 035°

2226Z Gun #1 misfiring again. (2 times)

2300Z DEPTH INDICATOR #1 - BAD

0010 C/C to 040° 5.5

0100Z LAPIN, GILROY, & SANCHEZ ON WATCH
STILL SHOOTING CT2-3 5.3 041°

0156Z GUN #1 OUT FOR ~ 6 SHOTS

Rosenkrantz, Augustadt, STEVENSON ON WATCH -

0520 GUN #1 NOTED OCCASIONALLY ERRATIC.

0530 PAPER CHANGE MAG. #1

0600 ~~END~~ END LINE CT2-3 BEGIN SLOW
TURN TO RIGHT TO LINE CT2-4 C/C 145
SPD 5.4

0616 TAKING GUNS #1 #2 OFF LINE FOR TESTS -

0620 ~~RESTARTING~~ GUNS #1 #2 ON LINE; 4 GUNS FIRING

0640 BEGIN LINE CT2-4

0645Z GUN #1 STILL ERRATIC; FLUCTUATING BETWEEN
25-40 MS DELAY

07⁴²~~41~~ ADJUST COURSE TO 150° C/C 150

0700 Heber's the 4-8 watch 5.0 152

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TIME Z

SPD CRS

0950	C/C 145		5.6	145
1000	Maggie & streamer cable riding well. Guns functioning normally.		4.2	142°
1100	And all is well		5.5	150°
1200	Take-up reel for tape drive B needs adjusting.		5.5	157°
1250	Bathymetry is 400 fathoms too shallow - has been sunk last night			
1300	Jim, Sherris, Luis take over snooze patrol		5.5	150°
1510	Change course to 140°		5.5	140°
1630	Begin turn starting at 5°/2min.	CTZ-5	C/C 035	5.5 035
1631	GUNS NOT FIRING			
1643	7 shots recorded			
1644	- Compressor down - still turning			
1655	- GUNS FIRING AGAIN			
1700Z	= Noon shift enters the fray (SO ALL IS WELL) STEVENSON, AUGSTADT & ROSENCRANTZ			
2040	C/C 033		5.4	033
2100	4-8 watch alive and well, reporting for duty Bond, Phair, Portugee			
2300	Streamer and Maggie riding well, sea state 2		5.3	032
0004	Eric R. says the sun has set but here in the hole we don't know. Take it on faith.			

FM05-1

25 JUNE 1980

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TIME(Z)

Fm 05-1

27 JUNE 80

0100Z 8-12 WATCH - SANCHEZ, GILROY, LAPIN
 0500Z 12-4 Front-line troops replacements -
 Angst, Stevenson, Rosencrantz
 0530Z begin turn for shooting line CT2-6

33° 5.5
 34° 5.6

124 4.7
~~124~~ ~~5.4~~
 150 5.4

0610
 0750Z
 0800Z

Course change
 Loss of Bathymetry

0900 4-8 shift stumbles onto watch, Ron the Phair, Bordo
 y Vascinho. 3.5 and single channel monitors tickled to
 death. Ken G awakes and presences enough to soothe
 the savage machines. Back on line at ~ 0910.

0942 Course change to 145°

145° 5.4
 150 5.5
 158° 5.3

1115 c/c 150

1200 Changed sat-nav. paper, struggled mightily but overcome
 the peru.

1300Z 8-12 WATCH GILROY, LAPIN, SANCHEZ
 1338Z

151 5.5
 151 5.5

1525 Sea Conditions: Sea is blue with small
 hills rising periodically and smaller
 random distortions

153 6

10 Begin turn starting CT2-7
 change course to 040 5° / 2 minutes
 12 Begin 12-4 watch. Stevenson, Rosencrantz and Angst

BEGIN LINE CT2-7 - (SHOT POINT 5867) STEADY AT 040° -

10 035°T

10° TO RIGHT TO AVOID SHIPPING -

042
 035

FM 05-1

27 JUN 80

19

SP: 1 CSE

2040Z

ADJUST COURSE TO 035°

~~2218Z~~

2100

~~etc~~ ~~030~~
 4-8 watch; Bond, Phair + Vasco: so happy to be here.
 3.5 KHz record not recording time events. If it's not one
 thing it's another if it's not another it's something else.
 S. BOND

2218

course change to 030°

5.5 038

2320

course change to 035

5.5 035

0100

8-12 watch coming on Lapin, Gilroy
 Sanchez

0101

8-12 and 4-8 shifts stand around 5.7 027
 and mock out 12-4 shift

0143Z

3.5 KHz - not printing - on the blink
 again

0150Z

3.5 KHz - Ken gave his magical
 touch - WORKING AGAIN

48

038

09

0300Z

CHANGE COURSE 090° FOR LINE CT2-7-B

0315Z

ON COURSE FOR LINE CT2-7B
 CHANGE LD-CUT FILTERS TO OUT

0342Z

Gilroy pledges to be a better human
 being for the N+1st time

0345Z

Streamer + Maggie OK SEA STATE 2

0500Z

12-4 watch Angst, Rosencrantz, Stenson

0710Z

TURNING TO CT2-8 @ 5°/min. To 189°

0750Z

STOP TURN BEGIN CT2-8 189°
 Sea State 2, Weather (outside) - warm, (inside) - ~~not~~ arctic!

4-8 shift Vasco, Bond, Phair: our bond is phair, we will
 not Vasco-late. Systems functioning per usual, Bathymetry out of key.

Time		SPD	CSE
0945	course change to 180	5.5	180
1041	ALL Along the forecastle grey the golden sun shone A golden day A day singular, unique As one A peaceful calm, A SEA STATE #1.		
1050	Monitor SP#8394 OUT 7260 TRACE 11 (SECTION 22) DEAD ONE MAGGIE RECORDER NEED TO BE FIXED!		
1115	Parity errors on tape 051160. No record of deg. attached to the reel. ∴ not de-goosed? Tapes not showing a deg. should be degaussed before data acquisition. Decreed this day June 28 in the year of our Lord 1980. Chief Gooser.		
1244	TRACE 47 on the monitor is in Reality trace 24.		
1300Z	SANCHEZ, GILROY, & LAPIN ENTER THE TWILIGHT ZONE		
1310Z	SEA STATE 2	5.4	187
1431Z	TRACE #13 IS BAD		
1700	Change shift → ER, BS, DA and begin turn on to CT2-9 (+ wow! man, it's really a trip!)		
1733	FINISH TURNING ON course 055	5.4	055
1741	Low cut filter applied		
1842	C/C	C	060
1900Z	SEA STATE 2 ALL IS WELL		
2029Z	Bad Tape. Parity errors lit up board like a Christmas tree. Had to abort & change Tapes. Repeat hook for degauss certification		
2100Z	Vaseo, Pkair and Bond reporting for duty. Amazingly, there are no major problems facing us. We are in a state of shock looking over our shoulders like paranoiacs at a Don Rickles show. Too good to be true.		

- 2210 change of course to 060 SPD 5.5 CSE 060
- 0100 8-12 WATCH - GILROY, LAPIN, SANCHEZ
- 0120 NEW COURSE TO 175° - 50/min. 175°
- 0130Z We are now using the Doppler Sonar (SDC) computer navigation system - Loran C not usable - Tx. station signal strength dropped to 004
- 0140 Lightning & heavy thunder storms - sea state 3
- 0145Z START LINE CT2-10
- 0343Z 5.69 171°
- 0500 Midnighters return to haunt the graveyard shift. Angstadt, Rosencrantz, Stevenson
- 0523 Thunderstorm slackening. Streamer & Maggie trailing fine with great resolution against overwhelming odds of sea state 3.
- 0750 Loran C not giving good fixes -
- 0815 TIME DELAY ON LORAN C (~35 min.) TIME CORRECT? CHECK IN THE MORNING
- 0900 Bond, Phair, Vasco back on watch ... again. Deja Vu?
- 1014 Section 1 depth transducer formerly at 0ft. has taken a dive to 55 ft. - The bird is alive again
- 1155 Making turn to CT2-11: to course 050
- 1221 Begin line CT2-11 Starting point bi lat 11° 55.267 ~~050°~~ Long -074° 18.655 5.5 050°

TIME(2)

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22

CSE SPD

050 5.5

1300Z SANCHEZ, GILROY, LAPIN DW WATCH

SHOOTING LINE CT2-11

050° 5.5

1700Z 12-4 watch, Angst, Rosencrantz, Stevenson

056 5.2

2100 Vasco, Bond, and Phair come.

2104 End of line CT2-11, Begin turn to course 168° in 5° increments
End coordinates: 20°26.32 Lat;
-18°36.18 Long.

2130 Begin line CT2-12, coordinates:
LAT 20°25.33, Long -18°34.28

2200 DI#1 indicator malfunctioning TURNED OFF METER

2209 Dropped Tex^(x) slave; picked up W¹/₂Y on LORANC

2347 Stop bathymetry Recorder to clean the belt.

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0005 3.5 BATM (EPC) RECORDER BACK ON

0050 Storm coming up..

0100 2 8-12 WATCH - LAPIN, Gilroy + SANCHEZ.

172° 5.5

0135 LORANC lost Using Doppler DR Computer
Winds 40-50 Kts steady - 10-15 waves,
cable crabbing upwind as the Moore's rear end
responds to the wind vector - maggie cable is crossed
with the cable but not wrapped. Very frequent
lightning bursts - just like last night except swells bigger.

0205 INCREASE RPM to 875

0435 CHANGE ENGINE'S RPM TO 850

- 0500Z 12-4 watch returns to another watch at the tranches, DA, ER, BS 5.6 159
- 0600Z - start down slope of Cayman rise, bathymetry becomes disjointed
- 0832 - Adjust course to 165°
- 0900 - Vasco Phair and Bond dauntlessly enter the confusion. The first major hurdle complete, placing the carbon paper after this page
- 1010 average speed for the past 4 hrs is ~ 6 kts lower engine rpm to 825 166
- 1040 Change course to 170°
- 1206 Change course to 165 5.5 165
- 1300 Gilroy, Lapin, Sanchez enter a calm well ordered environment where even the carbon paper is in place. 5.2 170
- 1550 Everything trailing along Fine Sea 6.1 166
- 1703 LAND - Ho JAMAICA (LUCKY HARBOR) Noon crew arrive to vegetable in the lab at this monumental occasion. Rosemary, Stromer, Cryptus
- 1811Z Withy spitting distance of food. Sea still 3. Waggly + Stromer trailing fine 2 mi off LUCKY HARBOR 0.30
- 1845Z c/s
- 1850 CHANGE LORAN c FROM X, Y Slave To W, Y
- 2100 The Phair, the Bond, and the Vasco, then Limp Lamely in, some a little later. Other RS.
- 2210 change course to 025 5.5 075
- 2250 change LORAN c FROM W, Y to X, Y slaves

csc, spd

0100Z 8-12 people show up for another exciting evening of babysitting with the DFS.

0100Z LORAN C WORKING FROM 0000Z to 0130Z

0338Z GUN # 1 MISFIRES

0356Z SEA STATE #1

0500Z 12-4 watch returns with an abundance of good cheer, vitality, life and...

030 5.4

0515Z Adjust course to 025°T.

0545Z Fourth air gun put back on line

0552 Four guns on line and delays eliminated -

0750 change course to 025

025 5.2

0850 start turn into CT2-14

0900 Bond, Phair and Vasco (tardy) take over the watch in the middle of a turn. Something about changing horses...
Gun three down just to make it interesting.

091340 On line CT2-14, csc 140 at spd 5.4, last link in the FM05-1 chain

140 5.4

0949 Gun 3 back on line. Mike does good work even in his sleep.

1120 change course to 135

135 5.4

1300Z LADIN, SANCHEZ, GILROY - SHOW UP

1340Z Sea Condition 2

137 5.8

1603Z

139 5.0

CSC SPD

1700Z STEVENSON, AUGSTADT & ROSENCRANTZ
TAKE CONTROL

1941Z Weather Report - Blueskies + Sunny, Sea State
2, Maggy, Streamer trolling along in good humor 140° 5.4
2100 Bond, Phair, Vasco slid on in like syrup over pancakes on a
2105 change course to 135° cold morning. 135° 5.3

0100 The Mantle of the Ages, The Crown of
Kings, The Throne of Jupiter alas 135° 5.3
The control of the DFS is passed
to Gilroy, Lapin and Sanchez

0809Z GUN #3 went kerplunk.

0351Z Maggy + streamer OK - Sea state 2

0500Z Graveyard shift punches in the time-clock

0635Z C/K 1450

0720Z End CT2-14 start turn, can hear 325°
that sweet Reggae music now.

0758Z End of Seismic Recording

0822Z - Maggy shut down - Makeovering to
gain best position relative to land and so, to recover streamer
and guns

0906 Change speed to slow - began recovering airguns -
heading - 290

0925 Begin Recovering Streamer

01045 Section 56 SHARK BITE !!

01050 " " BIRD # READER BIRD

1059 " 39 SHARK BITE

1103 " 37 " "

1107 " 34 " "

Fm 5-1 2 JULY 80

1023 Section 20 Needs Naroma (Leaks??)
1030 Section 11 Shark Bite

01045 TAIL BUOY ABOARD - SHARK BITE
ON NORWEGIAN FLOAT.

1100Z SECURE WATCH
1105 EN ROUTE TO MONTGO BAY, JAMAICA ETA 2000Z

END LEG 1 of Fm Cruise 05

J. Phillips