

LEG 2 - MONTEGO BAY, JAMAICA → SAN JUAN, P.R.

CAPT. JOHN LESLIE

CHIEF SCIENTIST - RICHARD WJ

SCIENTISTS: JAMES AUSTIN
ERIC ROSENCRANTZ

STUDENTS:

JIM GILROY

LUIS SANCHEZ-BARRERA

STEVE BOND

DAVE ANGSTADT

BRAD STEVENSON

RON PHAIR

EMPLOYEES:

A.J. HURTADO

BYRON BUTTERFIELD

MIKE BUTTERFIELD

GEORGE PEARCY

SHERI LAPIN

6 JULY, 1980.

1430Z. (APPROX.) DEPART MONTEGO BAY - COURSE 209P, SPD 10 KTS -
BRING UP SATELLITE NAVIGATION SYSTEMS.

1600Z CHANGE SPEED 5 KNOTS - DEPLOY AND TEST GUNS, FIRING CIRCUITS -

1750Z - MANEUVERING DOWNWIND, DEAD SLOW - COMMENCE DEPLOYMENT, HDG 250 - SPD 4
REPAIR OF STREAMER CABLE. GUNS RECOVERED. GUN #4
FIRED O.K. GUN #3 FIRED BUT IS LEAKING. GUN #2
DID NOT FIRE. GUN #1 WAS NEVER DEPLOYED
DUE TO LEAKING HYDRAULIC HOSE (SINCE REPLACED)

1930Z D.I. #1 REPLACED BUT NEW D.I. NON-FUNCTIONAL.

CSE | SPD

Time Z

FM 05-02

CONTINUING TO DEPLOY + REPAIR STREAMER. MIKE BUTTERFIELD IS WORKING ON THE AIR GUNS.

2035Z SLIGHT COURSE ADJUSTMENT IN ORDER TO GET CLOSER TO BEGINNING OF LINE #15.

HOG 274°
SPD. 3.8 Kts.

2210Z C/C 305° WAVES MORE ON THE BEAM — STILL DEPLOYING STREAMER.

07 JULY

0936Z STILL DEPLOYING STREAMER. ALL BAD SECTIONS REPLACED. LATEST SAT. FIX PUTS SHIP APPROX. 15 MILES N. OF START OF LINE #15. C/C 180° AT 50/2 MIN. TO BEGIN TO APPROACH STARTING POINT.

HOG. 041°
SPD. 3.0 Kts.

1040 - ADJUST COURSE TO 160°T - SPEED SAME N2 KTS -

2215 STREAMER FULLY DEPLOYED - CHANGING COURSE TO RIGHT TO 017 TO MANEUVER BACK TO STARTING POINT - CHECKING CABLES - CHECKING SYSTEMS -

2232Z COURSE 017 DEPLOYING GUNS -

2250 GUNS IN WATER - CHECKING - GUN #4 BUCKLED

2300 TWISTED RGL JUMPER LAST NIGHT TRACES 40, 42, + 47 ARE OPEN, PROBABLY IN PLUG COMING FROM STREAMER REPAIRED 40 + 47. 42 APPEARS BAD IN STREAMER

2305Z GUN #4 IN WATER

8 July 1980

0000 Bond, Phair & Vasco watch reporting for duty: first string always starts the game

0151Z Ready to begin turn onto line CT2-15

0200Z Beginning turn onto line in 5/2 min increments. ^{28°} ~~10°~~ 3.4
ALT systems appear functional.

Time Z		CSE	SPL
0300	On course 176°	176°	
0400Z	12-4 WATCH - SANCHEZ, GILROY, LADIN, AUSTIN		
0409	Begin CT2-15		
0450Z	CHANGE SPEED - TRYING TO SPEED UP TO 5.5 KTS.		
0533Z			4.1
0600	Course Change	172°	
0630Z	COURSE CHANGE	168°	
0650Z	STREAMER + MAGGIE OK		
0800Z	4-8 watch, Stevenson, Augstadt, Rosenkrantz grandly stop forth. ↖ you've got to be kidding		
0902Z	slow to avoid ship	180°	3.0
0930Z	Resume normal spk + hdng - ship past bow	170°	5.5
1107Z	yc	1750	
1124Z	Ship passes stern (≈ 4 mi. behind)		
1200	Vasco, Phair and Bond lurking about the lab.		
1510Z	c/c 170	170	
1600	Gilroy and the others begin watch	170	
1630Z	CONTINUING LINE CT2-15. 4 GUNS OPERATIONAL SLOW TO 825 RPMs C/S		
1700Z	c/c 167° COMPENSATING FOR WESTWARD DRIFT		
1900Z	START TURN TO LINE CT2-16 (NEW COURSE 063°)		
1929Z	STEADY ON COURSE	063°	

15/5 RECONFIGURED DRS FOR 24 TRACES WITH ~~ED~~ THE FOLLOWING GEOMETRY

DRSCHAN STREAMER TRACE

1	7
2	9
3	10
4	11
5	13
6	15
7	17
8	19
9	21
10	23
11	25
12	26
13	27
14	29
15	31
16	33
17	35
18	37
19	39
20	41
21	43
22	45
23	46
24	47

THE CIRCLED TRACES WERE ADDED DUE TO SEVERE LEAKAGE ON TRACES 1-5. THE LEAKAGE APPEARS TO BE IN THE STREAMER. 25 ALSO HAS LEAKAGE OF AROUND 6KΩ.

2000Z STEVENSON, ANGSTADT & ROSENCRANTZ AIDED BY THE EVER PRESENT VISITING JAMAICAN SCIENTIST.

2117 ADJUST COURSE TO 070 -
2200 ADJUST COURSE TO 075°

0700T -
0750T -

2320 ADJUST COURSE - SHIP GETTING SET TO NORTHWEST BY
CURRENT AND WIND. STEERING 075°, MAKING ABOUT 0609°
OVER THE GROUND. CHANGE COURSE TO 078°T C/C 078°T

0000 Bond, Phair... and Vasco on duty

0300 Course change to 075°

0400 SANCHEZ, LAPIN, AUSTIN ON WATCH. GILROY 075°
IS ON THE TEKTRONIX. LINE CTZ-16, 5.3 KTS.
APPROACHING THE EDGE OF THE JAMAICAN
CONTINENTAL SHELF (GULF...)

0545 C/C to 123° 123°

0550 GUNS READ 80'S FOR FIRE TIMES
COMPRESSOR DOWN (TEMPORARILY?) →
CHANGING BELT ON SMALL (60PSI) COMPRESSOR

0553Z COMPRESSOR OK - GUNS FIRING

0557Z ON LINE CTZ-17 123°

0700Z CHECKED ALL TOWS - O.K. ALL 123°
FOUR GUNS FIRING AT DECK GAUGE PRESSURES 5.5 KTS.
OF 440-450 P.S.I.

0715Z C/C TO 117°. COMPENSATING FOR 117°
WESTWARD DRIFT, CTZ-17.

0750Z - Gun #1 crapped out - firing 80's, gun to
be replaced

0800Z - ANGSTADT, STEVENSON, ROSENCRANTZ ON WATCH

0810Z - PULLED #1 GUN FOR REPAIR.
IT WILL BE REPLACED WITH A SPARE.

0853- 4 guns again firing

0859 C/C LEFT 5° - MANEUVERING TO AVOID TRAFFIC

course spd

0922Z Return to original course - adjust course to 120°

c/c 117 c/c 120°

1000Z sea state 2, Maggy + Streamer doing just fine, thank you.

1112Z Gun #1 losing pressure - INCREASED DELAY - ADJUSTED PRESSURE

UPWARD

1200Z Bond, Phair, and Vasco face a new day.

1400Z

c/c to 120°

c/c 120

1540Z c/c to 115°

115

1535

c/c 110

110

1600 Lapin Sanchez Gilroy - Return to Normalecy

1835 c/c ~~115~~ 115

115

2000 STEVENSON, ROSENCRANTZ & ANDSTADT

2030 Turn to begin CT2-18

2032 Patch panel changed to test all 48 traces
result: 1-5 dead (that's still dead)

Result: 1-5 traces still carry 60 cycle noise.

20³⁹~~40~~ Change Rep Rate to 22 sec.

2053 finish turn, course 355

355

2100 Sea State 2+, Maggy + Streamer trailing fine, all is well

2300Z DFS-monitor stopped running

0000

10 July 1980

Phair, Bond, and Vasco begin to turn the screws. All wearing illegal smiles

0100Z c/c 003

003

0155Z c/s 800 (rpm) lower 0.5 kts to ~ 5.5 kts.

003 5.5

0320Z c/c 000°

000°

0400Z LAPIN SANCHEZ AUSTIN ON WATCH. LINE CT2-18

5.6 kts.

FM05-02

TIME(Z) CARIBBEAN TECTONICS PHASE II COURSE/SPEED

0630Z BEGIN TURN TO LINE CT2-19 $\frac{0}{117^\circ}$

0700Z STEADY ON COURSE 117°

0722Z JAMIE CHECKED THE TDES - THEY'RE ALL THERE, WIGGLING BUT O.K.

0750Z Change course to 120°

0800Z Angstatz, Rosencrantz, Stevenson ZOMBIE IN

(0)1000Z Sea State 2, Maggy + Streamer are all there, wiggling but O.K.

1200Z Bond, Phair, Vasco report. Bright eyed and bushy tailed. Dreaming of Babylon. Like cold SYRUP OVER PANCAKES

1215 Record counter on DFS skipping 0 digit on change-over regularly. Should be repaired when line changes

1345 END OF CT2-19 START TO TURN AT $5^\circ/\text{min}$ to COURSE 012° . START ~~OF~~ SHOOTING CT2-20

1405 on course 012° CT2-20. 012° 5.5 KTS.

1500Z SANCHEZ, GILROY, LAPIN ON WATCH

1530Z SAT. NAV. #1 DOWN.

1600Z AUSTIN ON WATCH. SAT. NAV. #1 STILL DOWN. NAVIGATING ON SAT. NAV. #2 AND LORAN C.

1730 Change course to 020°
Change speed to 8.75 on 2 engines - trying to maintain 5.5 KTS.

FM 05-2

10 JULY 80

TIME (Z)	LINE CT2-20	CSE	SPD
1730 Z	STEADY ON 030° SPEED 8 1/2.	030°	5.5
1930 Z	C/C TO 040 030° COMPENSATING FOR WESTWARD DRIFT.	030°	
2005 Z	LORAN C SHUT DOWN.		
2000 Z	Rosenbury, Stevenson, Angstadt Underin		
2100 Z	Sea State 2, Maggy, Steamer, Frig. much		
2335	start CT 20 B		
0000	Vasco, Bond, and Phair. here to explore the depths of their souls and question if God is just. (Are we all figments of the DFS's imagination?)		
0052	Gun 1 out of order. come up 80		
0201	Gun #1 CHANGED OUT FOR SPARE/BROKEN SHUTTLE. C/C to 140° - avoiding traffic		
0213	C/C to 150° "		
0222	Course 170° "		
0255	Back on course 124° after avoiding traffic		
0306	C/C to 118°		
0400 Z	AUSTIN, GILROY (LATE), LAPIN, SANCHEZ (LATE) ON WATCH. LINE CT2-20 B. SAT. NAV. #1 IS NOW BACK IN OPERATION.	118°	5.3 KTS
0615 Z	ALL TOWS O.K. - 4 GUN IN OPERATION	118°	5.3 KTS
0630 Z	C/C TO 010° END OF CT2-20 B BEGIN CT2-21.		
0651 Z	COMPLETED TURN ONTO CT2-21.		

FM05-02

CT2-21

spd cr

0718Z c/c OUT TO TRAFFIC TO 355°

5.3 KTS.

0727Z c/c TO 010° AGAIN.

0800Z The 4-8 watch greets a fine new morning, Rain, Angst, Storm.

0830Z c/c

5.5 013°

1030Z Guns 1, 3, + 4 firing 80's, ~~comparisons~~ - low pressures due to condensation, gun #1 bleeding -

1040Z Gun 2 off for ~ 3 shots

1048Z 2 Guns firing

1100 Three guns firing - Gun #1 off line -

1115 4 GUNS FIRING - PROBLEM W/ GUN #1 - HOSE TO GUN DISCONNECTED
AT GUN AS A RESULT OF VIBRATION.

5.5 003

1220 C/C 003

1200 Actually Vasco Phair and Pond are on watch but were so occupied with their duties that they failed to log in. Sorry. Did you miss us?

1228 Porpoise off the bow. Dr. Austin selecting contingency options.

1346 Increase speed ~~to 6.5~~ ^{if necessary} - traffic crossing our stern: app. 4 miles astern

1354 Increase RPM to 800 (re. the above entry?) to avoid traffic

1450 c/c to 003°

1600Z AUSTIN, SANCHEZ, LAPIN ON WATCH.
STILL CT2-21.003°
5.5 KTS.

11 JUL 80

TIME(Z)	Fm 05-2 CT2-21	SE	SPD
1835Z	Change course to	001	
2000Z	STEVENSON, ROSENCRANTZ & ANGSTADT REPORT FOR ANOTHER 4 HOURS OF FUN TIME		
2120Z	COURSE CHANGE TO:	358°	
0000Z	12 JULY 1980 Bondy, Phair, and Vasco begin their song and dance.		
0034	End line CT2-21		
0103	Begin line CT2-22: line change made with our usual calm and efficiency.		
0255	Increase speed to avoid traffic astern 800 RPM	125°	~5.8
0327	Decrease speed: 750 RPM	125°	5.5
0400	LAPIW, Gilroy + SANCHEZ B. 12-4 WATCH. AUSTIN (LARG).		
0522Z	GUN #3 - FUNKY GUN PRESSURES ADJUSTED - O.K.		
0530Z	C/C TO 122° DRIFT CORRECTION	122°	
0715Z	C/C TO 115° COMPENSATING FOR DRIFT.	115°	
0720Z	C/S TO 850/2. SPEEDING UP TO MAINTAIN 5.5 kts. IN WHAT APPEARS TO BE A VERY STRONG CURRENT SETTING THE SHIP TO THE SW (UNDOUBTEDLY FROM THE WINDWARD PASSAGE TO THE NE).		
0800Z	Rosenkrantz, Stevenson, Angstadt infect the laboratory		
1100Z	Blue Shies are coming our way, Sea State negligible Maggie + Cecil the Streamer eating up the road.		

FM 05-02

Time Z

CT2-22/23

Cse spd

1200 Bond, Phair, Vasco spell relief for the 12-4L watch

1318 c/c to 120°

1502 c/c to 125°

1600Z SANCHEZ, GILROY, AUSTIN ON WATCH. 125° 5.5 kts
LAPIN TAKING A BLESSED BREAK.

1700Z CHANGE LORAN C SLAVES TO W + Y (14 + 30)

18710Z CHECKED ALL TOWS — O.K. 125° 5.5 kts

1845Z c/c TO 122° 122° 5.3 kts

2115Z END CT2-22 BEGIN TURN TO COURSE 027° 027°

2356Z c/c 025 to be clear from the island GONAVE 025°

— 13 JULY 1980 —

0000 Bond, Lu, Phair & Vasco on duty confronted with a 022°
course change to 022°, right off the bat0056Z c/c 027 passed GONAVE ISLAND back to original 027
course0106 c/c 022, 0108 c/c 020, 0115 c/c 015, 0122 c/c 010, 0140 c/c 020
because shallow water depth.0115Z Passed Gonave with 50m water depths at
its shallowest. Max streamer depth ~ 20m.
Gutsy crew!

0207Z c/c 025 025

0205Z Gun 4 misfiring, shows 80.

0218Z Gun back in service

0252Z c/s - 0.5 kts due in past 4 hr average spd = 6.2 kts

0315Z c/c 030 030 5.6

0325Z c/c 035 035 5.6

0400Z SANCHEZ, LAPIN, AUSTIN ON WATCH. THANK GOD!

0405Z CHECKED AND ADJUSTED GUN PRESSURES —
ALL O.K.0500Z c/s 825/2 (FROM 850/2). GOING A LITTLE
TOO FAST.

0550Z ALL TOWS O.K.

FM05-02

CT2-23

Course

Speed

TIME, Z

0610Z

C/C 032°

0615Z

C/S 850/2

0800Z

Rosenbrantz, Sturman, & Angstadt enter that carnival fun-house of flashing lights and dingy bells & buzzers

0810Z

Start turn onto CT2-24

CT2-24

0838Z

Come on line CT2-24, end turn

170°

2450

1040Z

C/C

1115

- TAPE DRIVE A INOPERATIVE. - PULLED OFF TAPES 052213, 052214 UNREWOUND. NEW TAPE ABAD TAPE MOUNTED TAPE ON DRIVE B. TAPE # 052215, WHICH CONTAINS NUMEROUS DISCONTINUITIES DUE TO SYSTEM SHORT CIRCUITING, DURING REPAIRS ON DRIVE A.

1200

Bond, Lu, Phair Vasco - in usual untenable situation.

1210

TAPE DRIVE A REMAINS INOPERATIVE. USING TAPE DRIVE B, FAST FORWARDING FULL REELS - I.E. REMOVING UNREWOUND. TAPE 052215 NOT REWOUND, PLUS SUBSEQUENT TAPES SEE DFS LOG.

1600Z

1254 watch - LARIND GILROY test dexterity with the DFS - what a RUDE awakening!

1720Z

AUSTIN FINALLY SHOWS UP. RELIEF!
Lu FINALLY ABLE to leave!!

1930Z

C/S 850/2

2000Z

ANGSTADT, ROSENBRANTZ & STEVENSON TAKE CONTROL OF OUR ONE-WINGED RECORDING SYSTEM.

0040Z

End of CT2-24. Begin turn. Starting transport swap.

0145Z

On line CT2-25

027° 5.5 Kts

FM05-02

CT2-25

cse spd

0225Z Tape drive A (replacement) unable to record. Heads need to be replaced.

0343Z C/c 020° COMPENSATING FOR DRIFT.

0350Z TAPE DRIVE A HEAD REPLACED WORKING GOOD

0400Z SANCHEZ, GILROY, AUSTIN ON WATCH.
TWO TAPE DRIVES OPERATIONAL.

020°

0405Z GUN PRESSURES ADJUSTED. ALL FOUR FIRING O.K.

0650Z C/s 900/2. SLOWING TO MAINTAIN 5.5 KTS.

0700Z C/c to 022°

022°

0800Z ~~Drifted~~ Rosner, Stinson are summoned to the infirmary

0838Z c/c

030°

1200Z Bond, Lu, Phair + Vasco. We like to watch.

1250Z Adjusting course and speed to avoid traffic.

045°

1303Z C/c 038°

1608Z AUSTIN, GILROY, LAPIN ON WATCH. TAPE DRIVE B DOWN(SPACE)WORKING ON ONE DRIVE ONLY.

038°

55KTS.

1715Z C/c 041° C/s 850/2.

1827Z DFS off and on continues until 1850Z while Byron + A.J. were working on the spare tape drive. Left ~ 30 records plus shots.

1932Z ARMS ON DRIVE A need ADJUSTING

LSE SPD

2000Z Stevenson Amphlett, Rosecrancy report
to that little Shangri-La,

2010Z A BEAUTIFUL DAY WITH SEA STATE 3, WIND
FORCE 5 TO 6 FROM NE.

~~C/C~~

2245 - END LINE CT2-25, C/C TO Ø85. SHOT DOWN ^{TAPE} TRANSPORTS
FOR REPAIR, PULLING GUN #1 TO REPAIR CHARGING GEAR. 3.5 KHz,
MAGNETICS, MONITOR RECORDING MAINTAINED.

2335 - GUN REPAIRS (MINOR) COMPLETED; 4 GUNS TUNED AND FIRING.

0033 C/S ⁶⁵⁰ ~~270~~ (~3 kt)

0134 C/C ²⁷⁰ ~~270~~ @ 5°/min. to return to End position of CT2-25.
transport module still not fixed. spare unit appears
parity error while recording.

3 Kts
(650
rpm)

0213Z On Course @ 270°

0223Z Idle on two engines

0315Z C/C to 290° → HEADING BACK 290°
TOWARD THE START OF CT2-25. 5.0 KTS.

0400Z AUSTIN, SANCHEZ, LAPIN ON WATCH.
STILL MANEUVERING TO GET BACK ON
TO THE START OF CT2-26. COURSE = 290°
SPEED = 5.0 KTS.

0500Z C/C 295°, C/S 600/2 GETTING READY
TO BEGIN TO SHOOT CT2-26 WITH
ONE TAPE DRIVE.

0516Z FIRST SHOT, CT2-26. ONE DRIVE,
FOUR GUNS OPERATIONAL.

0525Z PROBLEM W/ REMAINING TAPE DRIVE.
C/S 500/2 DEAD SLOW. PROBLEM W/ GUN #4
BEING PULLED RUNNING ON THREE GUNS.

FM05-02

CT2-27

cse spd

1830Z Towing ok Sea State #2
 Funnny Ship off port ~~aft~~ ~~quarter~~
 quarter

1910Z c/c 210° COMPENSATING FOR DRIFT.

210°
 5.5 KTS.

1945Z c/c BACK TO 200° DRIFT WAS
 IMAGINARY — BAD SATELLITE FIX.

2000Z STEVENSON, ROSENCRANTZ & THE BIG "D"
 TAKE THE DRIVER'S SEAT IN THIS MARGINALLY
 FUNCTIONAL LAB.

2140 GUN #3 DOWN, GUN #4 SHOWS LARGE DELAY -

2201 GUN #3 OFF LINE

2220Z " " back on line

2330Z U.S. carrier #62 ^{Independence} backed down by the R/V
 Fred Moore. Streamer saved for god & MSI.

2400Z Bond, Lu, Phair & Vasco breathless from the excitement
 of confrontation on watch with a glow.

0028Z c/c 205

16 JULY 1980

205 5.5

015202 The team has made it's first 2 shot tape change!

0200 c/c 230 @ 5°/min.

0209Z On course 230°

0351Z C/S 750 rpm

0400Z AUSTIN, SHERI LUIS ON WATCH. EVERYONE
 ELSE IS JUST SECOND-BEST.

0415Z c/c 230°

TIME

FM 05-02

CT2-27

45
COURSE/SPEED

0525Z CHECKED ALL TOWS - O.K.

0800Z ~~Angstadt~~ Rosencrantz, Stevenson enter the Night Gallery of weird shapes and noises, and things that go bump in the night.

1200 all tows that ends well.

1200 Bond, Lu, Phair + Vasco

1340Z end line CT2-27, begin turn

1340Z c/c 180 @ 5°/2min.

1354Z On course 180°

1528Z c/c 000° c/s 750/2 BACK TO START OF CT2-28.

1600Z GILROY, LAPIN, AUSTIN ON WATCH.

1615Z c/s 850/2. HEADING BACK TO THE START OF LINE CT2-28.

1707Z c/c ⁷⁸178° at 5°/2min. TAPE DRIVE (SPARE) APPEARS TO BE FIXED. TURNING ONTO CT2-28.

1800Z s/c 178° BEGIN SHOOTING CT2-28. TWO TAPE DRIVES ARE OPERATIONAL.

178°
5.1 KTS.

1900Z c/c 168° COMPENSATING FOR WESTERLY DRIFT

168°
6.2 KTS.

1905Z c/s 800/2. TRYING TO MAINTAIN 5.5 KTS.

2000Z Angstadt, Rosencrantz, + Stevenson enter to their most thankful judgement, a resplendently full functioning laboratory !!!

0

TIME(Z)

FM05-02

CT2-29

17 July 1980

COURSE/SPEED

46

0012 Z End CT2-28 begin turn to 135°

0018 Z Begin line CT2-29

0255 Z c/c 138°

0400 Z GILROY, SANCHEZ, AUSTIN ON WATCH.
TWO DRIVES, FOUR GUNS OPERATIONAL.

0522 Z — OUTBOARD D.I. D.I. #1,
REGISTERING 100+! MAY BE EITHER
LOSS OF TAIL FLOAT OR PROBLEMS
WITH TWO OUTBOARDS BIRDS. AFTER PLAYING
WITH THE ONBOARD INDICATOR → RETURN
TO 37! MAY BE PROBLEM WITH ONBOARD
UNIT.

0605 Z — CHECKED WITH FANTAIL — ALL TOWS
O.K.

138°
5.3 KTS.

0800 Z — Angstadt, Stevenson, Rosencransky
make a grand appearance

0842 SPEED CUT BY 150 RPM TO AVOID TRAFFIC

0910 SLOW TO 800 RPM ON TWO

0816 COMMENCE MANEUVERING TO AVOID SHIP APPROACHING FROM
PORT; CHANGING COURSE TO LEFT TO PASS UNDER APPROACHING
SHIP'S STERN.

0825 CHANGE CSE

0835 CHANGE CSE

0845 CHANGE SPD - SLOWING

0850 CHANGE CSE.

0910 APPROACHING SHIP TURNS TO STARBOARD TO PASS DOWN OUR PORT SIDE
THEN TURNS TO ITS LEFT ACROSS OUR STERN AT A DISTANCE OF ABOUT
1/2 MILES, SHIP APPARENTLY PASSED OVER THE STREAMER AS NO LOSS OF
SIGNAL FROM ANY OF THE 24 ~~STATIONS~~ TRACES.

c/c 120
c/c 115
c/c 100
c/s 4.5 KTS.
c/c 065

0920 CHANGE COURSE TO RIGHT TO REGAIN TRACK

0928 ON COURSE 136° T

c/c -
c/c 136°

FMOS-2 CT2-29

16 JUL 80.

TIMEZ

0940Z CONTINUITY CHECK OF STREAMER CABLE SHOWS NO APPARENT DAMAGE TO CABLE. GALVO RECORDS SHOW NO DRASTIC CHANGE IN RECEIVED SIGNALS.

1005Z EXAMINATION OF GALVO RECORDS REVEALS PROGRESSIVE SLIGHT LEAKAGE IN MANY SECTIONS. DECISION IS MADE TO RECOVER STREAMER AND EXAMINE, REPAIRING AS NECESSARY.

1029 COMMENCE TURNING TO RIGHT TO FIND SATISFACTORY COURSE FOR RECOVERY. END LINE CT2-29 (SHOT # 5596)

1035 STEADY ON CSE 180° - HOLDING TO DETERMINE CSE / SPD OF APPROACHING TRAFFIC.

1040 CONTINUE CHANGING COURSE TO RIGHT

1050 STEADY ON 245°T - SLOW TO ABOUT 4 KTS -

1215 CHANGING CSE TO NORTH

1230 COMMENCE RECOVERY OF STREAMER. MAGNETOMETER IS TURNED OFF. STEADY ON CSE 300°T. COMMENCING MAGNETOMETER RECOVERY.

1241 MAGNETOMETER RECOVERED.

1304 Engines dead slow, Streamer recovery begins. GUN ON DECK -

1417 REPLACE STRETCHER, STREAMER NOT DAMAGED, LEAKAGE PROBLEM SOLVED.

1841 Steady now on 045° Streamer deployed 045° 5.5
Guns being deployed

1920 Return of the Maggie

2000Z - Angstadt and Rosencrantz enter the lab, ready to fire up that lab machinery again - to watch it rise up alive out of the ashes of streamer repairs like the legendary Phoenix.

2037Z TAFE DRIVES (INCL SPARE) UP, RECORDED UP READY TO START SHOOTING - AT PRESENT MANEUVERING TO AVOID SHIPPING - CHANGING COURSE TO 136°T - INTEND TO RESHOOT LAST 20 MILES OF CT2-29, THEN CONTINUE ONTO CT2-30. STREAMER GEOMETRY IS SAME, SAME REP RATE, ETC. 3 GUNS FIRING, FOURTH GUN UNDER REPAIR

2051 STEADY ON CSE 136°T - COMMENCE RESHOOTING LATER PORTION OF CT2-29, ~~0606~~ (0606 record), (7292 - # of shot), - 3 guns

2132Z Gun 4 placed into the water. experiencing problems in gun shack (gun box). 2

2137Z - gun box being transferred, shots not going off for 15 min. 7425 - 7430 with necessarily all guns firing.

2142Z - 3 guns up + firing, box replaced.

2237 - 4th gun put into the water + onto the line

18 July 1980 -

0000Z Bond, Lu, Phair + Vasco on duty. If you are reading the carbon copy of this log you will note that the previous watch report is missing, so is the previous watch. Summarize: Streamer party completed, back on line to shoot 2nd half of CT 2-29. Diddling with guns, all fine after much a do in.

0002Z On line CT 2-30.

0520 5.5KTS

0400Z AUSTIN, LAPIN, SANCHEZ ON WATCH.

0600 5.5KTS

THIS HAS BEEN OFFICIALLY DECLARED THE "NO PROBLEM" WATCH BY RONALD REAGAN AT THE REPUBLICAN NATIONAL CONVENTION.

FM05-02

CT2-30

SPD CSE

0420Z c/c to 055°

055°

0550Z c/s 775/2 from 800/2. Trying to
MAINTAIN 5.5 KTS.055°
6.0 KTS.

0600Z c/c 052°

0645Z CHECKED ALL TOWS - O.K.

0730Z c/s 750/2.

0800Z STEVENSON, AUGSTADT & ROSENCRANTZ TAKE
CONTROL OF "THE WORLD'S GREATEST" GEOPHYSICAL
RESEARCH VESSEL. (excluding industry)0900Z Sea State ⁵⁻⁶ ~~4~~, Maggy + Streamer towing
well ~~underway~~ ^{although} streamer angle
IS APPROXIMATELY 10 TO STARBOARD, DUE TO SHIP CRABING
TO HOLD CSE IN SEA AND WIND.1200Z Bond, ^{ha} Phair & Vasco in total control... sort of

1345Z c/c to 055°

1515Z End line CT2-30, begin turn to 178°
Sea State 6

055°

1537 c/s 178°

1538

A blue, depth of ~~boundless~~ Soul
tis not for the mind to fathom its whole
A ~~strong~~ wind the SEA (dough) mix, ^{sp DOTH}
Strong
the master of this Sea State 6.
Beaufort Force 6
magnetometer happy under tow,

SPD

SE

18 July (cont.)

1607Z GILROY + LAPIN RETURN TO THE TORTURE
CHAMBER - AUSTIN REPAIRING SECTIONS
ON REAR DECK

1730Z c/c 1650 - STILL CTD-31

1800Z c/c 1550 SANCHEZ STANDS IN
FOR LAPIN, WHO IS ILL WITH ~~HT~~
A BAD CASE OF FEMININITY.

1907Z c/s 800/2 (FROM 750/2).

2000Z Angst, Stevenson, + Rosenblatt
Scientist's descent upon the laboratory; Stevenson
late after trying to bounce a bottle of hand
lotion off the floor of the bathroom like a basketball.

2135Z c/c 1700
0000Z BOND, PHAIR, VASCO on watch.

0130Z End line CT 2-31 changing course to
0400. ONE BAD THUNDERSTORM

0147Z DFS Down for repairs

0208Z DFS back on line

0224Z On Course for line CT 2-32

0255Z Gun #3 down, Mike working on it.

0338Z c/c 050 thunderstorm, worry about magic +
streamer towing situation. 10' sea
westward drift of ship

1650

1550

1700

5.5 040

5.5 050

FM05-02

CT2-32

0400Z AUSTIN, LAAN, S.B. ON WATCH.
GUN #3 STILL OUT FOR REPAIRS.

0500
~5.0 KTS.

0425Z GUN #3 BACK IN THE WATER, BUT
FIRING ERRATICALLY.

0500Z STILL WORKING ON GUN #3, BUT IT IS
IN THE WATER AND FIRING.

0508Z GUN #3 COMING OUT OF THE WATER
AGAIN.

0530Z GUN #3 BACK IN THE WATER.

0545Z GUN #3 COMING OUT OF THE WATER
FOR REPAIRS — AGAIN!

0625Z C/L 040°.

0630Z C/S 875/2.

0650Z GUN #3 BACK IN THE WATER.

0707Z GUN #3 STILL NOT FIRING PROPERLY
PULLING IT FOR OVERHAUL. OTHER THREE GUNS
O.K.

0800Z ROSENCRAFT, AUGSTADT & STEVENSON
RETURN FOR MORE GOOD TIMES.

0930Z ALL INSTRUMENTS FUNCTIONING AS WELL AS
CAN BE EXPECTED. SAT NAV I PRINTS CONTINUOUS
ERROR MESSAGES BECAUSE IT DOESN'T LIKE
THE SEA STATE FOR DOPPLER SONAR VELOCITY
CALCULATIONS. (WAVES CAUSE PERPETUAL VELOCITY ERROR)

FM05-2

CT2-32,33

- 1021Z - All 4 guns now firing
- 1045Z - Air Hose LEAK ON GUN #3 / TAKEN OFF LINE
- 1100Z - All Four Guns Firing Smoothly
- 1110Z - Time marks being randomly generated
- 1200Z ~~Bond, Lu, Vasco, Phair~~ take the stand (YAWN!)
 1250 4 Guns on Log
 1255 end of Line CT2-32
 1304Z ALL Guns off, D.F.S. on standby
- 1255 c/c 185 @ 50/min.
- 1325 Repaired Timing Mark problem in Data Interchange
 Replaced 2N16 (7404 chip) ~~to~~
- 1325 Online CT2-33 185°
- 1435 change ANT height from +25.6 to -25.6
 for SATNAV #2 (small system)
- 1505 c/s 850/2 from 825/2
- 1600Z Hooray! THE 12-4 WATCH IS HERE -
 LAPIN, SANCHEZ, Austin ... AND FINALLY A GREEN GILROY
- 1650Z c/c to 180° 180°
- 1800Z c/c to 175° 175°
- 1930Z All Tows CHECKED O.K. WINDS EASTERLY
 20-25 MPH, WAVES 8'
- 0000Z Bond, Lu, Phair, Vasco ... at your service
- 0159Z ON LINE CTR-3BA 90°
- 0217 SONOBUOY TEST using trace 23, sonobuoy chan. A
- 0249 Sonobuoy test using trace 23, sonobuoy ch. 2

FM05-2

CT2-34

53

0400Z c/c to 012° START CT2-34
Gilroy the Green, Lucky Luis
Austin the Astute begin the
"no problem" watch

0430Z s/c 012° 875/2.

0455Z c/s 825/2 SLOWING To
TRY To GET THE STREAMER
TO DIVE.

0500Z c/s 925/2. "

0507Z c/s DEAD SLOW (500/2) STREAMER TOWING
VERY SHALLOW.

0538Z c/s 600/2. THE STREAMER DROVE
TO DEPTHS OF 50'-70' AT DEAD
SLOW, AND WE ARE INCREASING SPEED
SLOWLY IN HOPE THAT IT WILL NOT
COME BACK TO THE SURFACE AGAIN.

0546Z c/s 700/2. STREAMER STILL TOWING
PROPERLY.

0554Z c/s 800/2 O.K! HOORAY!

0619Z TRACE 24 IN MONITOR RECORD
CHANGED TO 23!

0701Z Change course to 040° FIGHTING
WESTERLY DRIFT.

0800Z Rosemary, Amy ~~and~~ Steven on the scene -
Have no fear, the professionals are here.

FM05-02

20 July 1980

CT2-34/35

1010Z Sea State 5, Maggy + Streamer towing fine but
 Streamer trailing about 15°-20° towards starboard.
 Streamer trailing with proper depth still holding - keep your
 fingers crossed.

1200Z Bond, Lu Phair + Vasco were here

1600Z AUSTIN, LAPIN, GILROY ON WATCH.
 THE MERE MENTION OF OUR NAMES
 STRIKES FEAR & ENMITY INTO THE HEARTS
 OF THE OTHER WATCHES. (guffaw, guffaw)
 END CT2-34

0200
 5.2 kts.

1850Z C/C to 148° } → to line CT2-35
 C/S 1775 on 2 }

~~148°~~

1910Z ~~C/S~~ 825/ ON THE WATERFRONT
 STARRING JAMIE "MARLON" AUSTIN

1915Z Steady on course 148° C/S 825/2. 148°
 At the middle of the turn, only 33m
 of water!!! Jesus!!!

1940Z Mad ^(leaking) in Gun 3 sends it
 crashing into the 80's
 trip. Mike will pull it out of
 the water to clean it.

2000Z Rosencrantz, Angstadt, Stevenson grace
 the lab with their very presence and transform it
 into a wondrous Shangri-la of Scientific Endeavor.
 2009Z - Pulling gun # 3 from water

2315Z - Gun # 3 back on line

2323Z - Gun # 1 taken off line

FM05-02

CT2-35

Spd cse

21 JULY 1980

0000

~~1200~~ Bond, Lu, Rasta-man + Vasco on a kinky watch

5.6 150

0131Z

c/c

150

0200Z

c/c

~~150~~ 145

0355Z

No. 1

Gun

Back ON LINE

0400Z

AUSTIN, LAPIN, SANCHEZ ON WATCH.

145°

FOUR GUNS OPERATIONAL.

5.5 KTS.

0725Z

ALL TOWS CHECKED - O.K.

0740Z $\frac{1}{2}$ from 825/2 TO 850/2

145°

0745Z

c/c 141°

0800

Bradley, Dave, and de Eric hangin' out

850/2
(~ 5.5 KTS.)

0935 -

OUTBOARD (#1) DEPTH INDICATOR GIVING ERATIC READINGS - SHORTING OUT? - METER PLACED ON BATTERY SETTING. SWITCHED OFF @ 0940Z

1000Z

Sea state 4, Streamer + Magory just fine
Watch crew, however, sleeping, bored, hungry

1200Z

Bond, Lu, Phair, And Vasco on watch

1258Z

2 GUNS out due to turn.

1303Z

ON CT2-36 AT 108°

1310Z

ALL GUNS 80, COMPRESSOR DOWN

1325Z

Guns back up

1422

c/c 115

5.0 115

1443

c/c 120

5.0 120

1446Z

c/s 800/2.

1600Z

AUSTIN, GILROY, SANCHEZ ON WATCH. FOUR

120°

GUNS

OPERATIONAL.

CT2-36.

~ 5.1 KTS.

1705Z

c/s TO 825/2

1722.51Z

DROP SONOBUOY (channel 28) record on trace 23

1730Z

S.B. KAPUT. PHONES PROBABLY CUT OFF

FM05-02

CT2-36

COURSE/SPEED

TIME(Z) 21 JULY 1980

BY STREAMER WILL DROP ANOTHER.

17:41:10 Sonobuoy in water ~~on~~
channel # 8 on trace 2318:06 Gun 3 going into the 80's
air leak18:13 Sonobuoy in water ~~on~~
channel # 2 on trace 23

18:14 Pulling gun # 3 off line

18:34 Z dead slow on 2 TO pull GUN # 3
OUT OF THE WATER.18:38 Z $\frac{1}{2}$ BACK TO 825/21920 Z Gun # 3 — BROKEN PRESSURE VESSEL
SEAL — PERMANENTLY OUT OF ACTION UNTIL
SAN JUAN2000 Z The wild bunch returns to star in
Sam Peckinpah's new action epic "The 4-8 Watch" —
produced by Eric Rosmerantz with Dave Augstadt
as "Slim" and Brad Stevenson as "Billy the Kid on Wheels".2043 Z Start onto turn \rightarrow CT2-36 to CT2-37 $\frac{1}{4}$ to 070°
2053 Z On course 070°

2113 # 1 GUN SHOWING 80

2117 # 1 gun on line again — pressure had been too high.

2150 Z # 1 pre-firing, showed several 80's. manifold pressure too high

2245 Z c/c 068

0000 Z As usual, the 8-12 watch comes in to clean up the debris
and devastation of the previous Wild Bunch. Bond, Lee, Phair, Vasco
ohm it out...

FM05-02

Time Z	22 July 1980	CT2-37	Cse	SPd
0320	Change to 775 rpm			
0400	AUSTIN, SANCHEZ, LAPIN	ON WATCH.	065°	5.5
	LINE CT2-37.			
0740Z	c/c 068°, c/s 800/2.			
0800Z	STEVENSON, AUGSTADT & ROSENCRANTZ MUST FIGHT BANAL BOREDOM FOR THE NEXT FEW HOURS.			
1015Z	Tows fine as is the sunset (or is it the sunrise?)			
1200Z	Bond, Lu, Phair & Vasco... all present and/or accounted for.			
1401	c/c 060		060	
1422	c/c 065		065	
1600Z	AUSTIN, GILROY, LAPIN	ON WATCH	065°	5.5 kts
1812Z	c/c 875/2.			
1852	c/c 069°			
2000	Stevenson, Augstadt, Rosenkrantz on drag watch			
2230Z	Tows just dandy, Sea State 2-3			
0000	Bond, Lu, Phair & Vasco on watch			
0217	c/c 070	WIND FORCE 2	070	5.7
0252	c/s 900/2			
			070	5.7
0340	c/s 875/2			
			070	5.9
0400Z	SANCHEZ, AUSTIN, GILROY GET THE NOD			
0401Z	c/s 850/2			
			070°	~6.0-6.5.

FM05-02

TIME(Z)

CT2-37

CRSE SPEED

4:05 Z It comes to our attention that the 4-8 shift has changed the name of the boat to the Robert H. Moore. We are unsure of the effects on course and speed.

0521Z C/C 075°

0530Z C/S 875/2

0715Z CHECKED ALL TOWS, O.K.

075° 5.45

0800Z STEVENSON, AUGSTADT & ROSENCANTZ RETURN

0930Z Tows just dandy, Sea Condition 2-3

1000Z. END LINE CT2-37. CHANGE COURSE TO 150°T @ 5°/MIN.
BEGIN LINE CT2-38. DURING CSE CHANGE SHIFTED UP AIR COMPRESSORS, READJUSTED AIR GUN PRESSURES AND DELAY TIMES.

1020Z STEADY ON 150°T -

1200 Lu, Vasco, Bond, Phair on watch

1258 C/C 145°

145° 5.

1351 C/C 152°

152

1424 C/S 825/2 RPM

1458 C/C 140°

140° ~5.6

1600 Gilroy, Lapin, Austin and various Orcs Goblins and other creatures of the sea now on watch.

1704Z C/S 850/2, C/C 137°

1837Z C/S 875/2

1846Z C/C 140°

FM05-02

CT2-38/39

CSE SPD

TIME(Z)

2000Z - 4-Swatch of ~~Mr.~~ Mr. Angstadt, Mrs. Rosenzweig, and Mr. Stevenson arrive. The official re-christening of the (Robert) Fred H. Moore will be at 2400Z and will consist of breaking a box of Craft Macaroni & Cheese across the bow

2030Z - C/C

135°

2125Z - outboard Depth Indicator has taken a dive from 32' - 55' in the past 1/2 hour. Will keep an eagle eye on it

2138Z - D.I. #1 now sunk to 85'

2153Z - D.I. #1 now 35', suspect funky D.I.

0000 Lu, Vasco, Bond, Phain on watch

0101 C/C 140

140°

0228 Streamer Surfacing

0230 End line CT2-38 begining CT2-39, streamer beginning to dive again C/c 055°

0240 DFS stopped

0259 On course for CT2-39. Streamer towing O.K.

055°

0306 DFS started and recording rec# 253 sp# 1872 speed 600 RPM - using mounted tape drives A & B

0310 Increase speed to 700 RPM

0316 " " " 800 RPM

0325 " " 850 RPM begin. recording for line CT2-39 rec# 0386, sp# 1923

~5.5 KTS.

0347Z Sonobuoy test using trace 24, channel 30
rec# 433 sp 1984 SONOBUOY IN WATER

0400Z LAPIN, SANCHEZ, + AUSTIN ON WATCH

055°

~5.4 KTS.

0600Z C/C TO 058°

058°

0632:28Z END of SONOBUOY - TRACE 24 Record section 94a.

FM-05-02

CT 2-39

CSE SPD

0652 Z

D. I. 1 ACTING WEIRD AGAIN! LIKE
if it was PASSING OUT. PROBABLY DOESN'T
LIKE JOE COCKER FOR SOME REASON.

058° 5.4HS.

0750 Z

C/C 057°

0800 Z

STEVENSON, ROSECRANTZ + AUGSTADT TOGETHER
FOR THE SECOND TO LAST TIME. (AND COUNTING)

0830 Z

#1 OUTBOARD DEPTH INDICATOR REGISTERS
OFF SCALE (+100 FT) SO WE PULLED THE PLUG.

1100 Z

~~Washed~~ Misty golden sunrise
O'er the glistening fantail
As Fred the R.V. Clipper ship,
To San Juan port doth sail

Streamers and faithful maggy
Tow well through frothy blue
With three foot scaled crestlets
And a modest Sea-Gate of two

1200

Bond, Lu, Phair and Vasco; what more can we say?

1403

C/C 061

061

5.0

~~Washed~~

1600 Z

Austin Gilroy Sanchez on watch
as Lapin Frothies in the sun

1616 Z

Going to 900 on 2
Only 900 on 1 For the moment

1620 Z

070° new course to avoid
naval vessels

TIME, Z

FM05-02

CT2-39

CSE SPD

1735Z C/S 925/2. FIGHTING A HEAD WIND 070° 4.8

1920Z C/C 068°

2000Z Angstadt, Rosenkrantz, & the Karate Kid
head on into the menagerie of sights & sounds2055 - DEPTH INDICATORS SHOW STREAMER ON THE SURFACE -
SLOWED TO 700 RPM ON BOTH ENGINES TO SEE WHETHER
BRING TO DEPTH AGAIN.2105 C/S 600^{RPM}/2 STREAMER SINKING2110 C/S 700^{RPM}/2 BEGIN INCREASING SPEED2115 C/S 650^{RPM}/2 ENGINES

2119Z C/S 750/2

2124Z C/S 850/2 STREAMER AT APPROPRIATE DEPTHS -

2132Z C/S 875 RPM/2 ENGINES

0000 Bond, Lu, Phair and Vasco stand the last watch

0207 C/C 060

0300 C/S 900

060 5.0

060

0400 END CT2-39 & FM05-2

0414 MAGGIE ABOARD AND SECURE

0439 Starting streamer party @ dead slow

0445Z

leader of streamer aboard

switch off 3 section (section 85, 84, 82)

patch leaks

fix weights

add murema

continuity check for leakage of trace 1-5

deployment/recovery

see streamer log
for details

1635Z

section #1 aboard

streamer recovery finished

c/s full speed enroute SAN JUAN P.R.

END FM 05-2

