

FM 30

Depart Austin by Van ~~to~~ ~ 8:30 AM

Arrive Galveston Dock ~ 2 PM

Setup Watch schedules &amp; began detailed instructions

10-11 PM SET UP DEMUXR

on 2nd TAPCHN rewind did not occur automatically.  
- ~~man~~ pushing REWIND did it but VERY slowly.ONCE DATA collection was started, DEMUXR displayed  
Sample rate: 3 ms. (set at 2) when set at 4 it displayed 5  
(off/on)

After several attempts, no tapes could be loaded on DEMUXR Drive C

Also Demuxr Drive A seems to be dead.

Tapes won't rewind on 11/34 drives, automatically retired ~ 3:4

First Crash ~ 5:30 AM Cycles fast from C → D

Dm# shots errors

B	185	166	3	} at 2ms sampling 10 sec rec., 15sec. rep rate
C	164	0		
D	152	3		

Settings changed to 8 sec data, 2ms sampling, 1/sec rep rate

CRASH Parameters 177777 - no change w/exam

① 115534 000752 105316

② 000000 115534 165212 165530

DYO, DEMUXR, WRK copied to Boot disk. Screen was as when  
crash except Drive C said Backspace before and off line after.

21 May arose 8AM Lab going relatively well

Demuxr Drive a started operating

11/34 drives started automatically rewinding. ONLY ACPIOT won't  
give shot gathers.

New Demuxr shot protocol 8sec rec- 2ms sampling; SHOTS/tape A B C D

203 202 198 184

4:55 PM - an increase in rpm suggests that we are underway. (4:57)

~8PM

Make believe line change to 14 sec records; 22 sec shot. Int.

A crash began (SOH, HDR, EOH lights remain on until crash). After a tape on drive D acquired  $\frac{112}{126}$  shots (14 sec, 2ms) Tape 4.

RESTART did not correct the problem.

STOP YES did " " " The screen went blank briefly, then reappeared w/ DEMUXR IN startup mode

DEMUXR PRINTER IS STARTING to backup & write over itself.

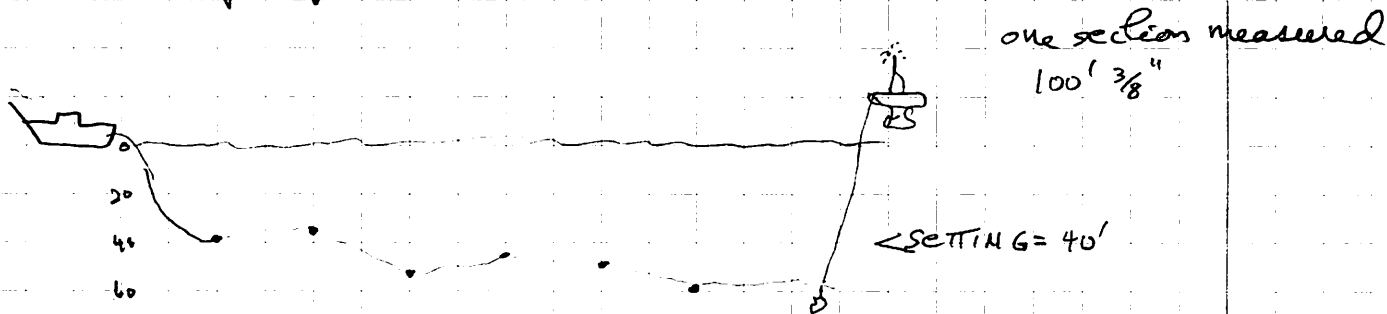
The hangup was: too much output on top of the paper supply  
napped 2-8

22 May switched ~~to~~ ship's power 9AM

I was advised by Capt Collins ~10:30AM that a generator part broke, & obtaining a replacement would take a couple of hours at least. Therefore there will be a departure delay.

4:55 increase in engine RPM suggests we are underway. Indeed, left dock ~4:37 PM. Emergency drills after supper went smoothly. Began full watches 7PM 0600Z 23 May 85Z.

23 May arose ~1AM to check wind & drift; adjusted course to ~15 mi up drift of starting point. Started streamer party ~4:30 AM added 56 lbs lead; no leaks; mounted 10 birds. There's a 20' diff in depths to different parts of the streamer



Deployed Maggie ~10:25AM

Shot about 60 shots & had to shut down for compressors (bleed off clogged)  
down about 1 hour

Resumed shooting after lunch but had to reduce pressure to 1800 psi because of compressor overload in about 20 min.

Got one tape of data & had to shut down for compressor overheat.

Slept ~ 3 hrs before supper.

Strong westerly current took steamer almost  $30^\circ$  to the port looked like it was hooked on an airgun, but we pulled the gun and it wasn't. Ship's speeds of under 4 kt caused steamer sections to sink (too heavy).

Eddie began processing first data logger tape. Lower drive indicated numerous errors at 1600 BPI so he switched it to 800. He suggested that data logger drives need alignment. 11/34 Drives may also be off. DEMUX Drive C won't load - seem not able to see load point retired 2-3 AM

24 May arose at 8 to the sound of silence. Main generator was down. "Repaired" generator (cause of 5 hour departure delay) broke almost immediately after being brought on line.

Up and running again at 9-10. Changed line name to 67B & record length to 12 sec.

Deployed 1<sup>st</sup> 2 sonobuoys ~ 9:40 (first one hung on steamer) Finished line 1 (SC67B) and re-rigged for SC68 after supper.

Re-rigging = 1 water gun + 1 airgun. SC68 they were fired watergun, 2 sec delay, airgun. SC69 = two guns together.

2 ms sampling for all watergun data. 12 sec records, 18 sec rep rate,

an auto tape change tried to crash (D→A); after 2-3 missed shots DEMUX was STOPPED, noted <sup>and when</sup> CANCELLED, the fool thing started right up again. Next tape had more tape errors than shots. retired 12:30 AM

arose 2 AM to supervise line change involving return to 2 airguns (4 ms sampling; 21 sec rep rate). DEMUX rebooted at this time due to corrupted screen. retired 4 AM

25 May arose ~~at~~ for lunch

Turned on to line 5 (SC71) at 1 pm (2 hrs ahead of schedule)

continuing with 2 airguns, 4 ms, 21 sec. 4.2 kt. 8 fold.

generator cycling on & off very frequently. I'm writing most of this by flash light. Weather: light northeasterly breeze - beautiful.

Sonobuoy deployed at 1008 PM napped 1240-230 retired 5 AM

26 May - long hard day lots of data Planned the last of the cruise before retiring ~ 2 AM -

27 May up at 4 AM to supervise OB's launch Drops were 0452:47 & 0455:00 local these were .05 & .13' lat late - ~ 148 m apart.

Resumed speed on to new course (352)

During large turn onto next course (line 77-78) DEMUXR DRIVE D=3 "spontaneously?" changed to Drive D=0. Many weird things ~~happened~~ happened then until a 3 was typed back into the Drive D slot. The line was changed during this interval.

DEMUXR recommendation. When DEMUXR is stopped, it's often desirable to change header & tape values - this cannot be done without cancelling other functions like STOP.

Data logger continued to perform very well. Tapes changed automatically. It would be nice if ~~the~~ <sup>the</sup> event were automatically logged when tapes changed.

11/34 Drive continue to give quite a bit of trouble. At one point none were operable. Eddie Noel got two up and running.

The compressor system was never up to par the whole trip. Max press under any circumstance was 1800 psi and this decreased through the cruise. The engineers at least once ~~date~~ decreased pressure without advising the scientific party. 27 May had no generator problems (as of 6:30 PM).

We passed a little south of rather than over the OBSs because the mate on duty did not understand the meaning of "Ship's heading" - the words tape-labeled on the gyro readout over the chart table.

Ceased shooting ~ 7:20 PM

Started Streamer party 8:00 PM ended 8:55 began OBS hunt. First one came up during Streamer party; the second's radio signal was heard 2105 (9:05 PM) right on schedule. Initially 10-11 mi from OBSs.