

The scientific staff also performed admirably. Patty Ganey was great as cruise manager and kept us all organized and in line. She handled the data logger and kept track of all the data and records. Ken and Stixling were always there when we needed them to handle the electronics problems, as was Ty and George to take care of the guns, cable, birds and other deck equipment. Special mention and kept the ship crew performed well and we were all impressed. It looks like we have

The ship's crew performed well and we were all impressed. It looks like we have assembled a real dedicated and professional group and I hope we can keep them together. They all worked well together and were very cooperative with the

scienitific staff and students.

We collected approximately 270 n.m. of 12-fold seismic data using a 24-channel streamer with a 70 m group spacing. We ran one and two guns at both 30 ft. and 10 ft. The data length was 10 sec. and was collected at 4 ms. We collected magnetics along much of the track. The field area was the outer continental shelf-upper slope off Louisiana. Hopefully, we can get some of the data processed as student projects next semester.

Mabel Baumruck	Tito Beveridge	Greg Breerton	Ben Brigham	Joachim Gennrich	Teresa Harradar
Peter Krynine	Don Leseau	Kitty Milliken	Jürgen Obser	Jay Flynn	
				Bill Cross	

The student cruise (FM-16) sailed from Galveston at 2200 hrs., 17 May 1983 and returned to Galveston at about 1830, 22 May, 1983. Everything went well and the cruise was a success. I feel the students learned a great deal and gained a valuable experience. They were a wonderful group and were all eager to learn and participate. They stood there watching intently, and were very cooperative. Participating in the cruise were,

RE: Cruise Report - Student Cruise (FM-16)

FROM: Dr. Buffeller
(Signature)
TO: Dr. Maxwell

May 27, 1983

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MEMORANDUM

AUSTIN, TEXAS 78751

INSTITUTE FOR GEOPHYSICS

THE UNIVERSITY OF TEXAS AT AUSTIN



John A. Beaman

- 1) The data logger system worked but there still are some problems and bugs with it. Patty Ganey will review and report to us on this. It is critical that these bugs be worked out. Perhaps Mark could help us with this?
- 2) The Demux system seemed to work quite well. Layout of some data shows that all the data is there. I think there still may be a few bugs but nothing serious. Mark will give us a full report.
- 3) There is a serious problem with the depth transducers that has to be solved. It is not clear if it is in the transducers themselves or in the wiring at the reel bumper. We have to know how deep the cable is running. A first look at the data indicates that much of the middle part of the streamer is noisy and thus was shallow. Stripping is supposed to check the streamer for bubbles too expensive to buy new transducers with built-in wires for calibration.
- 4) We also need a way to calibrate the depth transducers. The "bladder" device wasn't working properly and needs to be checked out. It is probably a way to calibrate the depth transducers with Western.
- 5) The in-board stretch section had a bad rip in it and we took it off when bargaining in the streamer. It needs to be sent out right away for repair.
- 6) There apparently is a problem with the air hose coming apart inside, possibly due to the sympathetic oscillation used in the compressors. Do we need to get different hoses? We also need the spare gun rigged with harness plus extra hardware made up ahead of time and on-board for quick change-out. Archite and Ty are taking care of this.
- 7) There are still problems with the solenoids on the signal adjustment and repaire?
- 8) Tape drive B seemed to be getting weak. It probably needs attention, seems to be bad and get noisy with time giving us an unreliable time break that may cause erratic firing. We need spare solenoids and a back-up system. Ken suggested making up blast-phones (cavestats) mounted in epoxy. I would like these also to record the new field signal.
- 9) The magnetics chart recorder needs adjustment. It would not calibrate down the cause?
- 10) The Loran C worked fine, but we might take the spare set as a back-up.

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Most of these items are minor things, but I hope they will be solved and completed by the time of the Mississippit Canyon cruise.

- 18) Are there still some Kennedy tape drives not working? Hopefully, stirring ready?
- 17) We were getting lots of blank spaces (triggers) on EPC. Causes? Premature triggering by noisy solenoid. This problem should be tracked down.
- 16) Stirring release on magnetometer head was loose. Screws would not tighten.
- 15) We need to get some hour-marks on the EPC recorders and some kind of time mark on magnetometer chart-recorder.
- 14) The rest of the stirrermag needs to be put on the ship. Twenty-five sections are on now.
- 13) If possible, we might consider getting a better exhaust fan in the gallery. When cooking with grease, the grease gets into the A/C and the lab. We can wipe grease off the tape drive glass covers.
- 12) We need to finish developing an on-board Quality Control System. Mark begin working on this during the cruise. We need to know if data is being written onto tape.
- 11) There were plans to rewrite the magnetometer from the back deck to the lab. Will this be done? We also need to check out our spare magnetometers (Texasco) and see if they are okay. If so, put on board.