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POST CRUISE REPORT

SHIP: M/T FARNELLA

CRUISE NO: 82FARN-7

AREA OF OPERATION: Continental Slope, northern Gulf of Mexico

DATES: 2300 February 2 - 1300 February 24, 1982

PERSONNEL:

USGS

Mahlon Ball	(nav. watch)
Dann Blackwell	(photo. tech)
Sarah Eisner	(nav. watch, photo. tech)
Ed Escowitz	(nav. watch, XBTs)
Lou Garrison	(nav. watch, Ch. Sci.)
Kathy Scanlon	(nav. watch, bathy.)
Dick Sylwester	(elec. tech., data mgr.)
Dave Twichell	(GLORIA watch)
John West	(elec. tech., air gun)
Steve Wolf	(nav. watch)

IOS

Robin Bonner	(air gunner)
John Campbell	(GLORIA tech.)
Neil Kenyon	(Ch. Sci.)
Gareth Knight	(computer op.)
Adrian Lewis	(computer op.)
Mike Somers	(Ch. Engineer GLORIA)

OBJECTIVE: Survey of the Continental Slope in the northern Gulf of Mexico with the GLORIA long-range side scan sonar, a cooperative study with the Institute of Oceanographic Sciences, Godalming, England.

EQUIPMENT:
1) GLORIA 6 kHz, 6.0 kW
2) Bolt 1900 airgun, 40 in^3 and 80 in^3
3) Echo sounder, 10 kHz, 800 W
4) XBT

NAVIGATION:
1) Northstar 6000 Loran C
2) Magnavox MX 1107 satellite navigator

DATA ACQUIRED:

4,126 n. miles of trackline with the above. Data consist of:

1) GLORIA:

USGS { 6910 Km SSS
6910 Km Lg Airgun
6910 Km 10 kHz E.S.

a) 12 reels of 9-track digital magnetic tapes
b) 12 reels of analog magnetic tapes
c) 464 photo negatives, speed rectified side scan data
d) shipboard monitor records, photo prints

2) Air Gun:

IPOD { 732 Km SSS
732 Km Lg Air
732 Km 10 KHz

a) 59 reels of analog magnetic tape
b) shipboard monitor records

3) 10 kHz Echo Sounder

a) 2 sec sweep shipboard records
b) 0.5 sec sweep shipboard records

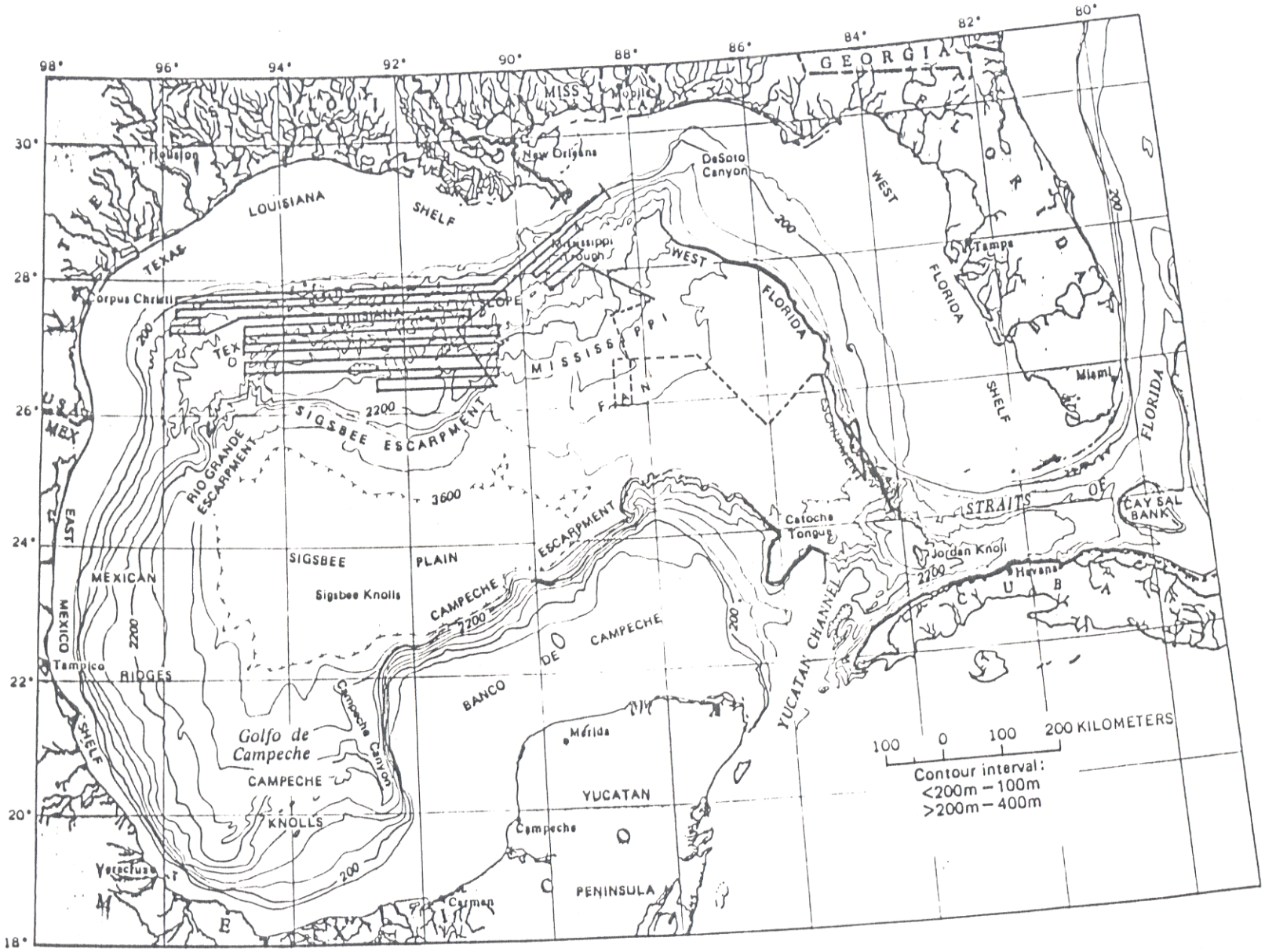
4) Navigation

a) 50 Northstar cassette recordings from bridge
b) 19 magnetic tapes from seismic lab
c) 8 rolls printout from bridge
d) 4 rolls printout from seis lab
e) 1 reel digital 9-track tape of Loran C plus Satellite fixes with water depths

5) XBT

69 XBT records

The cruise collected 3,731 nautical miles of data on the Continental Slope in 17 days for the USGS, and in 2 additional days, collected 395 nautical miles for an IPOD site survey on the Mississippi Fan. The IPOD data will be deposited in the IPOD data bank when processing is completed.



TRACKLINES OF 82FARN-7

IPOD SITE SURVEY ON MISSISSIPPI FAN WHERE DASHED