

CRUISE REPORT

In ADMIN 5/1/77

1. Ship: R/V DECCA PROFILER
2. Cruise No/leg: Decca No. 2/Bravo
3. Area of Study: South Texas Continental Shelf
4. Dates: May 28-June 5, 1977
5. Personnel and affiliation

Captain: Jerome J. Ottmer

Chief Scientist: Charles W. Holmes

Scientific Party:

Ken Roberts	USGS
James Woods	"
Ron Miller	"
Cyndi Rice	"
Jack Kindinger	"
Mike Dorsey	"
Tim Martin	"
Neal Lillard	"
Charles Stelting	"
James Booth	"
Lorri Felepek	University of Michigan

6. Purpose: The objective of this cruise was to obtain cores to aid in the contracted study into the origin of the "27° geochemical anomaly." This anomaly is a region on the shelf where a increase in copper, nickel and manganese is apparent and this cruise was necessary to obtain fresh large-volume cores.
7. Seismic Equipment: Minnisarker and 7/3.5 subbottom profiler
8. Navigation: Loran A
9. Data acquired: 30 hydroplastic cores with an average lenth of 2 meters. 500 km of minisparker and 600 km 7/3.5 subbottom profiler records.
10. Comments: Although the prime mission of the cruise was to obtain cores for the geochemical study. The attainment of the high-resolution profiles was considered important for proper sedimentologic interpretation of the cores. The cores were taken over the entire shelf with these sites selected on the basis of previous work. In addition 20 cores were concentrated around the 27° latitude.

11. Tabulated information:

Days at Sea: 9

Working days at Sea: 9

Total Ships Track: 1540 km

Continuous data: 500 km minisparker; 600 km 3.5

Number of Stations: 50

Number and Type of Samples: 50 hydroplastic cores

