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IN ADMIN

Cruise Report
(South Texas OCS Project)

1. Ship: R/V DECCA PROFILER
2. Cruise Number/Leg: Decca Profiler No. 2, Leg Alpha
3. Area of Operations: South Texas OCS between Matagorda Bay and the U.S./Mexico international border. Work extended from the 30 ft. isobath to the shelf break at 600 ft. Area encompassed within 26°0'-28°25' N. latitude, and 95°57'-97°15'W. longitude.
4. Dates of Operations & Port Stops: Cruise period was from 5-24-77 to 5-27-77. The ship departed from, and returned to, the port of Corpus Christi, Texas.

5. Personnel & Affiliations:

Ship Captain: Gerald F. Ottmer (Decca Survey Systems, Inc.)

Chief Scientist: Gerald L. Shideler (U.S.G.S.)

Scientific Crew:

Ron Circe	(U.S.G.S.)
Neal Lillard	"
Fran Firek	"
Chuck Stelting	"
Cyndi Rice	"
Bill Allshouse	"
Stan Linqvist	"
Tim Martin	"
Quenton Dokken	"
George Wiley	"
Dee Haines	"

6. Purpose: The general scientific objective of the cruise was to obtain quasi-synoptic information on the suspended-sediment transport system within the South Texas OCS. Specific objectives consisted of the following: A) Obtaining samples of the water column for analyses of sediment texture and concentration, sediment mineralogy and trace metals, water chemistry, and coccoliths, in order to establish temporal variability patterns, B) Obtaining vertical transmittance-temperature profiles, in order to establish regional turbidity patterns, C) Casting drift bottles to measure surface currents during the cruise period.
7. Scientific Equipment: Equipment utilized includes: transmissometer system with temperature and depth sensors (Martek), precision depth recording system, 30-liter Niskin water-sample bottles, X-YY' plotter, EPC recorder, and portable chemistry laboratory for filtration work

8. Navigation Techniques: The coastal inlet stations were positioned by radar navigation; these stations are: #1, 1A, 2, 9, 9A, 23, 23A, and 24. Other deeper water stations were positioned with LORAN-A.
9. Data Acquired: 1. Vertical transmittance-temperature profiles of the water column at 26 stations; 2. Three water-column samples (surface, mid-depth, bottom) at each of 26 stations. 3. A total of 335 drift bottles were cast.
10. Comments: This cruise was the last of six scheduled monitoring cruises designed to evaluate the temporal and spatial variability of turbidity patterns within the South Texas OCS region. The six cruises encompassed a time period extending from November, 1975 to May, 1977.
11. Tabulated Information:
 - a. Days at sea - 4
 - b. Working days at sea - 4
 - c. Total ship's track (km) - 900
 - d. Continuous data (km) - not applicable
 - e. Total number of stations - 26
 - f. Number of sample types: 78 water samples (3 samples at each of 26 stations); 26 vertical transmittance-temperature profiles.
12. Track Chart: Attached

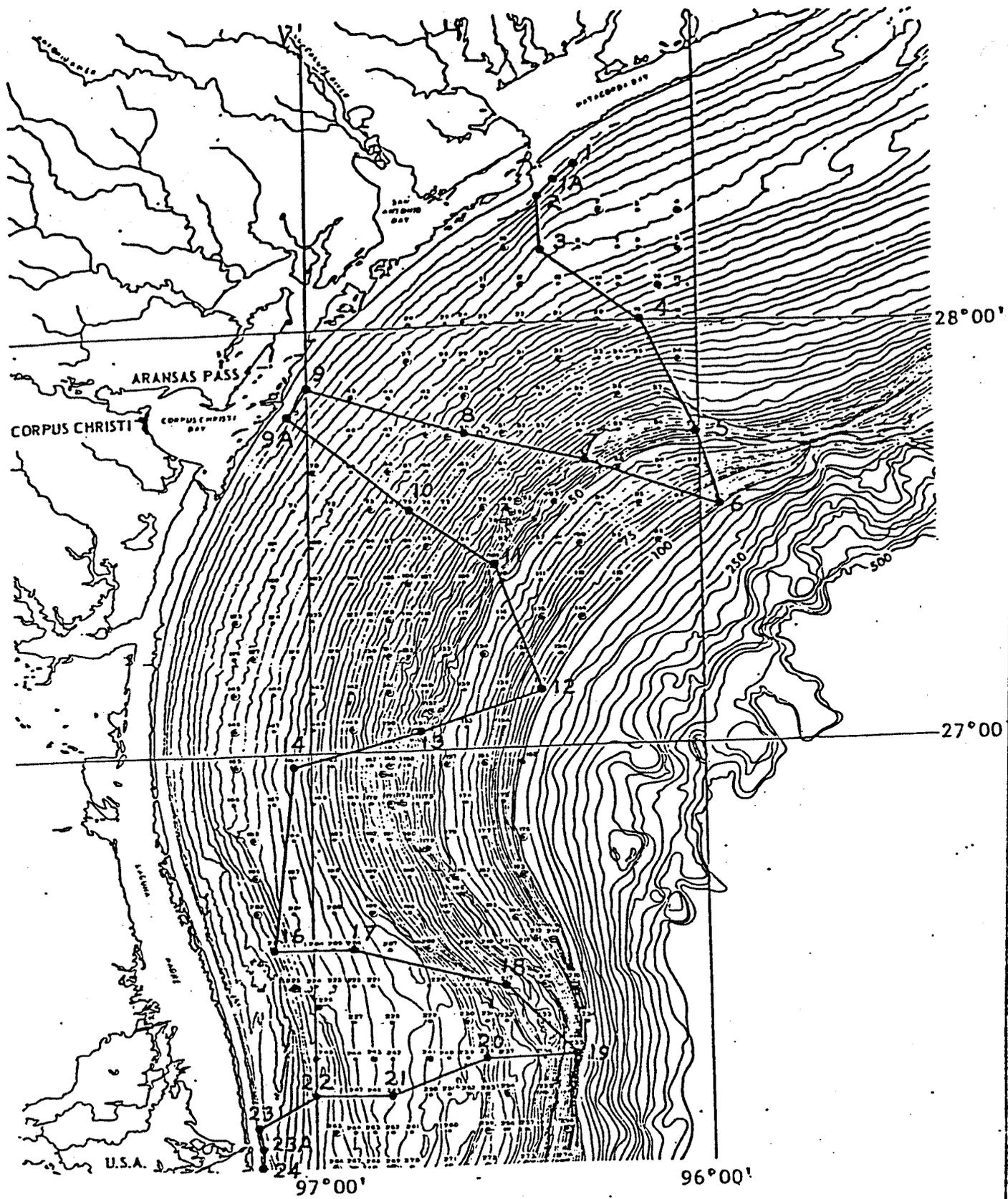


Figure 1 - Ship Track Chart

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