

#15028

Cruise Report  
(South Texas OCS Project)

1. Ship: R/V FAY
2. Cruise Number/Leg: 006
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 11-15-75 to 11-21-75. Port stops consisted of Corpus Christi and Port Aransas, Texas.
5. Personnel & Affiliations:

Ship Captain:	Lawrence F. Buell	
Chief Scientist:	Gerald L. Shideler	(U.S.G.S.)
Scientific Crew:	Mike Dorsey	(U.S.G.S.)
	Mike Kirkman	"
	Cary Pyle	"
	Fran Firek	"
	Bob Vitaglione	"
	Jack Kindinger	"
	Dave Botts	(Lorac)
	Ron Miller	(U.S.G.S.)
	Felicity Ohrm	"
	Dee Haines	"
	Cyndi Rice	"
	Kenny Roberts	"
	David Solar	"
	Scotty Heald	"
	Skipper Hale	(Lorac)
	Jim McQuay	(Ocean Research Equip.)
	Ben Cameron	(Martek Inst.)

6. Purpose: The general scientific objective of the cruise was to investigate the suspended sediment transport system within the South Texas OCS. Specific objectives consisted of the following: A) Obtaining samples of the water column for textural analysis, water chemistry, total mass analysis, trace element analysis, X-ray analysis, and total organic; B) Obtaining vertical turbidity-temperature profiles; C) Obtaining seafloor photographs; D) Casting drift bottles to measure surface currents.

FAY 006  
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7. Scientific Equipment: Equipment utilized includes: transmissometer (25cm path) with temperature and depth sensors (Martek), precision depth recording system (ORE), underwater camera (Benthos), 30-liter water sample bottles, X-YY' and EPC recorders.
8. Navigation Techniques: All stations were positioned by LORAC precision navigation. On station, LORAN-A and radar fixes (nearshore stations) were also obtained. Time meridian is 90° W.
9. Data Acquired: 1. Vertical turbidity-temperature profiles of the water column at 26 stations; 2. Water column samples (surface, mid-depth, bottom) at 26 stations.
10. Comments: This cruise is the first of three cruises designed to evaluate the seasonal variability of suspended sediment transport within the South Texas OCS region. The remaining cruises are scheduled for March and May.
11. Tabulated Information:
  - a. Days at sea - 7
  - b. Working days at sea - 7
  - 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)
12. Track Chart: Attached

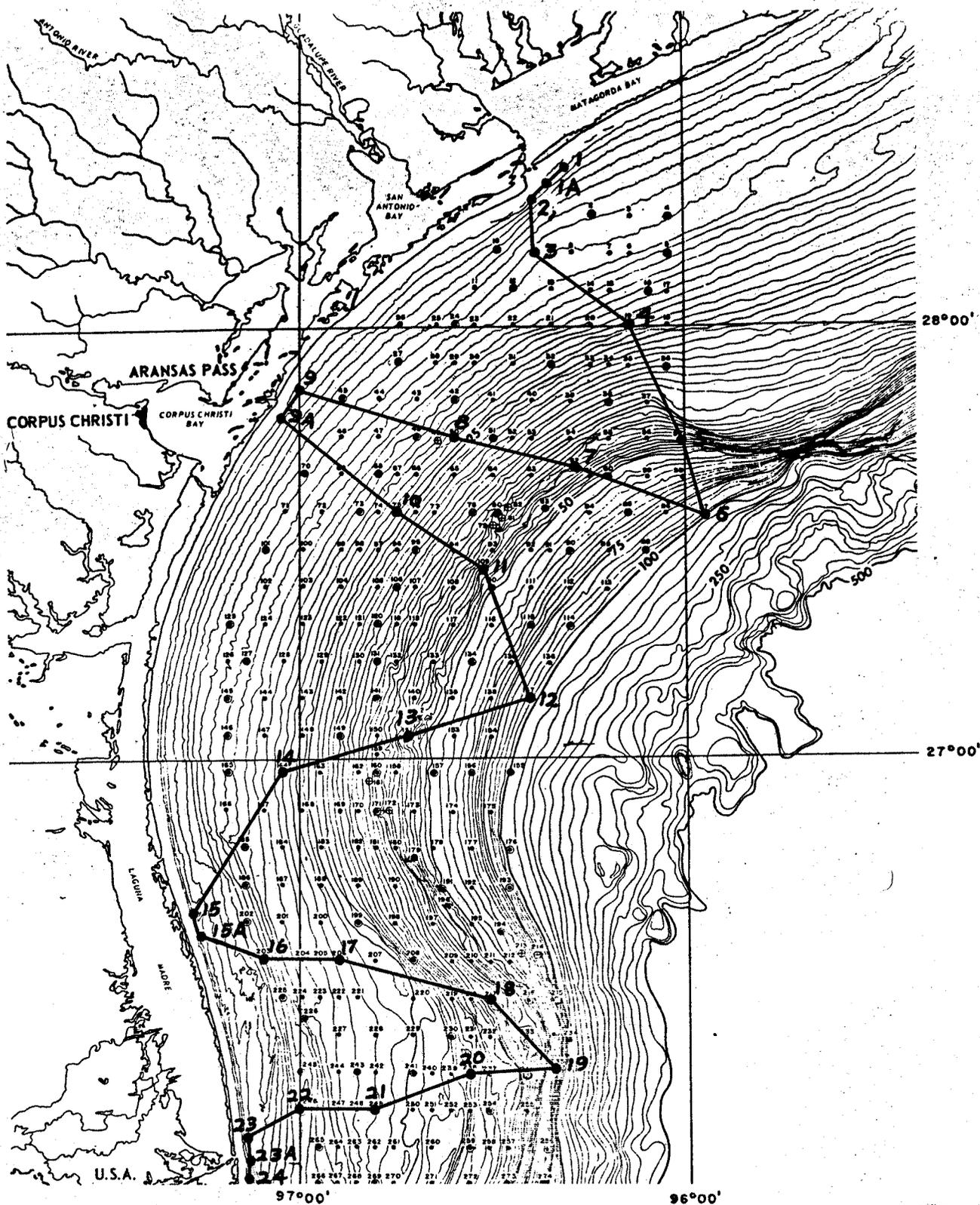


Figure 1 - Ship Track Chart