

EXPLANATION

● DRIFTER RELEASE POINT AND VECTOR—Direction and velocity in km/day for each station are the averages of all drops for all years of study. Drifters used were weighted bottles on the surface and drogues on the bottom, dropped at the station from an aircraft. Where the graph could not be centered on the drifter station, it is leaded into the actual station locality. Seasonal averages for all years are shown on figure 1.

----- (Surface)
----- (Bottom) Each division on the bar represents one km

RATE OF SEDIMENTATION IN MM/YR—Approximately located. Contour interval, 1 mm/yr
 - - - - - <2.00 mm/yr
 - - - - - 2.00-3.00 mm/yr
 - - - - - 3.00-4.00 mm/yr
 - - - - - >4.00 mm/yr

○ CORE LOCALITY USED FOR DETERMINING RATE OF SEDIMENTATION—Number indicates average rate of sedimentation in mm/yr during the past 100 to 150 years using the isotope ²¹⁰Pb as the dating agent

○ SAMPLE STATION—Locality of station where Smith-MacIntyre grab samples were taken for seasonal monitoring of changes in grain size of surficial bottom sediments (fig. 2). Roman numeral in transect designation; arabic number is station designation

○ SUPPORT INDUSTRY

△ PIPELINE LANDFALL

○ GAS PROCESSING PLANT

◇ PETROCHEMICAL PLANT

◇ REFINERY

○ PORT CAPABLE OF ACCOMMODATING CREWBOATS AND WORK BOATS

○ OIL AND GAS FIELDS

○ PIPELINE

△ PLATFORMS
 - Smaller than 2500 sq ft
 - Larger than 2500 sq ft

○ SURVEY COMPLETION BUOY

⊕ SHIPWRECK

⊕ ARTIFICIAL FISHING REEF

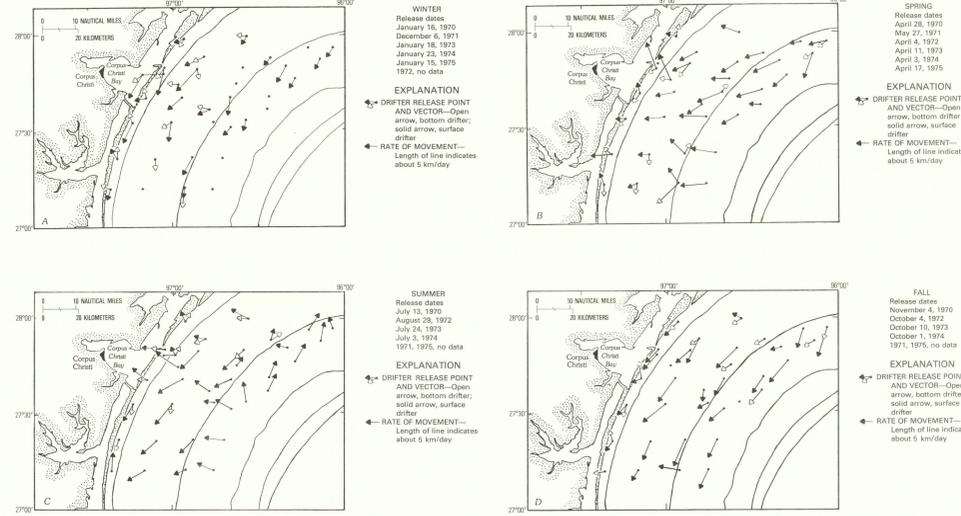


Figure 1.—Seasonal averages for 1970-75 of sea drifter movement in the Corpus Christi quadrangle, Texas. A, winter; B, spring; C, summer; and D, fall.

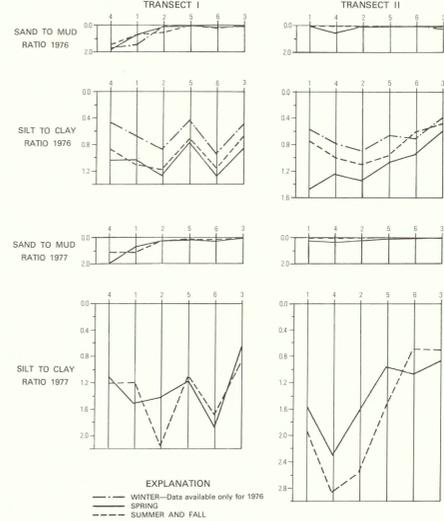


Figure 2.—Seasonal changes in size of sediment grains along Transect I and part of Transect II in the Corpus Christi quadrangle, Texas during 1976-1977. Transect I, stations 4 and 1 are shown on the Beville quadrangle, to the north (I-1288A).

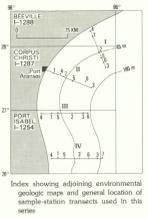
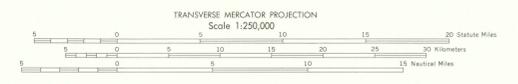
Base from U.S. National Ocean Survey.
Sea level information including bathymetry, compiled by the U.S. National Ocean Survey from NOS hydrographic surveys supplemented by hydrographic information from other sources. Bathymetric contour intervals: 10 meters to the 200-meter depth, supplemented by 5-meter intervals, then 10 meters to maximum depth. Chart M-10.
Universal Transverse Mercator Grid, Zone 14, 10,000-meter ticks (—) are shown on the map.

EVALUATION OF BATHYMETRIC SURVEY ACCURACY

SURVEY NUMBER	SURVEY DATE	SCALE	SURVEY LINE SPACING (NAUTICAL MILES)	HORIZONTAL POSITION (METERS)
H-5813	1939	1:10,000	0.2-1.3	15-30
H-5814	1939	1:10,000	0.2-1.3	15-30
H-5815	1939	1:10,000	0.2-1.3	15-30
H-5816	1939	1:10,000	0.2-1.3	15-30
H-5817	1939	1:10,000	0.2-1.3	15-30
H-5818	1939	1:10,000	0.2-1.3	15-30
H-5819	1939	1:10,000	0.2-1.3	15-30
H-5820	1939	1:10,000	0.2-1.3	15-30
H-5821	1939	1:10,000	0.2-1.3	15-30
H-5822	1939	1:10,000	0.2-1.3	15-30
H-5823	1939	1:10,000	0.2-1.3	15-30
H-5824	1939	1:10,000	0.2-1.3	15-30
H-5825	1939	1:10,000	0.2-1.3	15-30
H-5826	1939	1:10,000	0.2-1.3	15-30
H-5827	1939	1:10,000	0.2-1.3	15-30
H-5828	1939	1:10,000	0.2-1.3	15-30
H-5829	1939	1:10,000	0.2-1.3	15-30
H-5830	1939	1:10,000	0.2-1.3	15-30
H-5831	1939	1:10,000	0.2-1.3	15-30
H-5832	1939	1:10,000	0.2-1.3	15-30
H-5833	1939	1:10,000	0.2-1.3	15-30
H-5834	1939	1:10,000	0.2-1.3	15-30
H-5835	1939	1:10,000	0.2-1.3	15-30
H-5836	1939	1:10,000	0.2-1.3	15-30
H-5837	1939	1:10,000	0.2-1.3	15-30
H-5838	1939	1:10,000	0.2-1.3	15-30
H-5839	1939	1:10,000	0.2-1.3	15-30
H-5840	1939	1:10,000	0.2-1.3	15-30
H-5841	1939	1:10,000	0.2-1.3	15-30
H-5842	1939	1:10,000	0.2-1.3	15-30
H-5843	1939	1:10,000	0.2-1.3	15-30
H-5844	1939	1:10,000	0.2-1.3	15-30
H-5845	1939	1:10,000	0.2-1.3	15-30
H-5846	1939	1:10,000	0.2-1.3	15-30
H-5847	1939	1:10,000	0.2-1.3	15-30
H-5848	1939	1:10,000	0.2-1.3	15-30
H-5849	1939	1:10,000	0.2-1.3	15-30
H-5850	1939	1:10,000	0.2-1.3	15-30
H-5851	1939	1:10,000	0.2-1.3	15-30
H-5852	1939	1:10,000	0.2-1.3	15-30
H-5853	1939	1:10,000	0.2-1.3	15-30
H-5854	1939	1:10,000	0.2-1.3	15-30
H-5855	1939	1:10,000	0.2-1.3	15-30
H-5856	1939	1:10,000	0.2-1.3	15-30
H-5857	1939	1:10,000	0.2-1.3	15-30
H-5858	1939	1:10,000	0.2-1.3	15-30
H-5859	1939	1:10,000	0.2-1.3	15-30
H-5860	1939	1:10,000	0.2-1.3	15-30
H-5861	1939	1:10,000	0.2-1.3	15-30
H-5862	1939	1:10,000	0.2-1.3	15-30
H-5863	1939	1:10,000	0.2-1.3	15-30
H-5864	1939	1:10,000	0.2-1.3	15-30
H-5865	1939	1:10,000	0.2-1.3	15-30
H-5866	1939	1:10,000	0.2-1.3	15-30
H-5867	1939	1:10,000	0.2-1.3	15-30
H-5868	1939	1:10,000	0.2-1.3	15-30
H-5869	1939	1:10,000	0.2-1.3	15-30
H-5870	1939	1:10,000	0.2-1.3	15-30
H-5871	1939	1:10,000	0.2-1.3	15-30
H-5872	1939	1:10,000	0.2-1.3	15-30
H-5873	1939	1:10,000	0.2-1.3	15-30
H-5874	1939	1:10,000	0.2-1.3	15-30
H-5875	1939	1:10,000	0.2-1.3	15-30
H-5876	1939	1:10,000	0.2-1.3	15-30
H-5877	1939	1:10,000	0.2-1.3	15-30
H-5878	1939	1:10,000	0.2-1.3	15-30
H-5879	1939	1:10,000	0.2-1.3	15-30
H-5880	1939	1:10,000	0.2-1.3	15-30
H-5881	1939	1:10,000	0.2-1.3	15-30
H-5882	1939	1:10,000	0.2-1.3	15-30
H-5883	1939	1:10,000	0.2-1.3	15-30
H-5884	1939	1:10,000	0.2-1.3	15-30
H-5885	1939	1:10,000	0.2-1.3	15-30
H-5886	1939	1:10,000	0.2-1.3	15-30
H-5887	1939	1:10,000	0.2-1.3	15-30
H-5888	1939	1:10,000	0.2-1.3	15-30
H-5889	1939	1:10,000	0.2-1.3	15-30
H-5890	1939	1:10,000	0.2-1.3	15-30
H-5891	1939	1:10,000	0.2-1.3	15-30
H-5892	1939	1:10,000	0.2-1.3	15-30
H-5893	1939	1:10,000	0.2-1.3	15-30
H-5894	1939	1:10,000	0.2-1.3	15-30
H-5895	1939	1:10,000	0.2-1.3	15-30
H-5896	1939	1:10,000	0.2-1.3	15-30
H-5897	1939	1:10,000	0.2-1.3	15-30
H-5898	1939	1:10,000	0.2-1.3	15-30
H-5899	1939	1:10,000	0.2-1.3	15-30
H-5900	1939	1:10,000	0.2-1.3	15-30

VERTICAL DEPTH ACCURACY (METERS)

0-50	0.3
50-100	0.5
100-200	0.7
Over 200	1% of depth



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 Compiled by H. L. Berryhill, Jr. and Anita R. Trippet in 1978. Scientific contributions include E. W. Hill, L. E. Garrison, C. W. Holmes, E. A. Martin, and G. L. Shideler.

MAP SHOWING WATER CIRCULATION AND RATES OF SEDIMENTATION IN THE CORPUS CHRISTI 1° x 2° QUADRANGLE, TEXAS

Compiled by
Henry L. Berryhill, Jr. and Anita R. Trippet
1981