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SINGLE-CHANNEL, HIGH-RESOLUTION SEISMIC DATA FROM SIX AREAS OF THE NORTHERN GULF OF MEXICO CONTINENTAL SLOPE

by

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During the R/V GYRE cruise 80-G-4 in May-June 1980, the U.S. Geological Survey conducted high-resolution seismic studies over five intraslope basins and over one selected area of special interest in the northern Gulf of Mexico (fig. 1). Data from each area suggest that the intraslope basins are directly related to past and present salt-diapir activities and sea-level changes. The study areas had been selected on the basis of results of previous high-resolution seismic studies in the northern Gulf of Mexico.

Each of the areas was covered by a tightly gridded high-resolution seismic survey. The seismic survey tracklines totaled 1,458 km (table 1). Along the tracklines, 2,300 km of 3.5 kHz subbottom profile records (including mileage between study areas), 1,438 km of 800-Joule minisparker records, and 1,005 km of 40-in<sup>3</sup> and 5-in<sup>3</sup> airgun records were collected.

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The original data may be seen at the U.S. Geological Survey offices at 6300 Ocean Drive, Corpus Christi, Texas. Copies of the data on 35-mm microfilm may be purchased only from the National Geophysical and Solar-Terrestrial Data Center, NOAA/EDIS/NGSDC, Code D621, 325 Broadway, Boulder, Colorado, 80303, (303-497-6338).

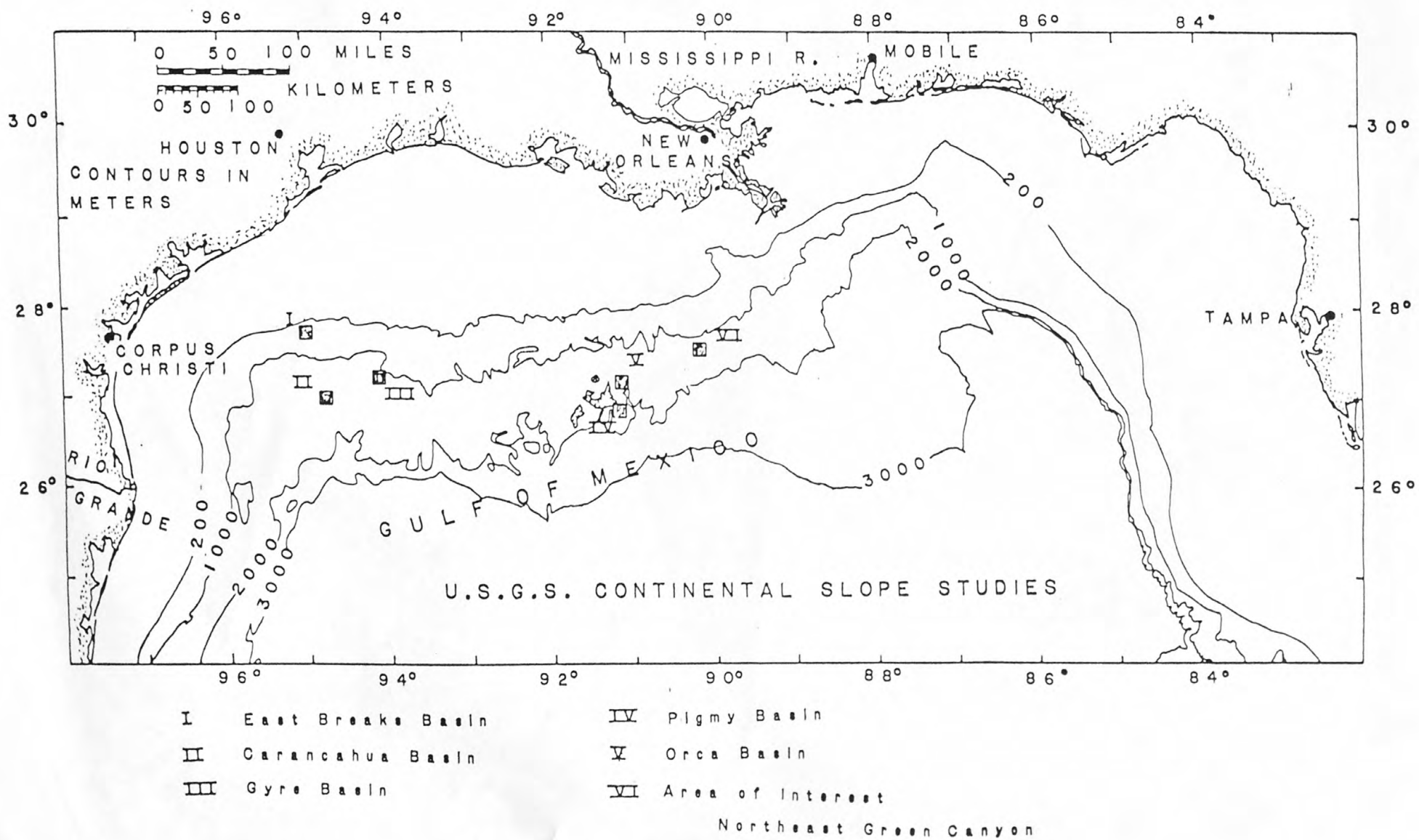
<u>Table 1:</u>	<u>Seismic lines</u>	<u>Area</u>	<u>Kilometers</u>
	1-26	East Breaks Basin	258
	27-48	Carancahua Basin	238
	49-68	Gyre Basin	200
	69-94	Orca Basin	380
	95-106	Area of interest	175
	107-125	Pigmy Basin	207
			<u>1,458</u>

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards.

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Figure 1. Study areas covered by R/V GYRE cruise 80-G-4



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