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U.S. Department of the Interior

Geological Survey

Reports - Open file series

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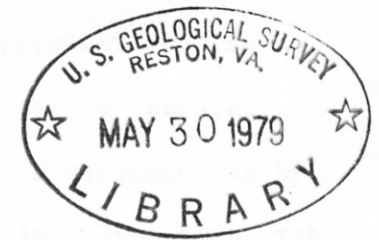
High-resolution seismic profiling data from the Upper Continental Slope  
of the northern Gulf of Mexico

by

VLC

Louis E. Garrison

1979



Open File 79-955

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High-resolution seismic profiling data from the Upper Continental Slope  
of the northern Gulf of Mexico

by

Louis E. Garrison

From July 28 through December 20, 1975, the U.S. Geological Survey conducted a high-resolution geophysical survey on the Upper Continental Slope in the Gulf of Mexico north of Latitude 26°N. The survey was limited to water depths between 100 m and 1000 m with seismic lines spaced from 7.5 to 18.5 km apart in a reconnaissance grid pattern. The data were collected by Western Geophysical Company of America under an exclusive contract with the Geological Survey.

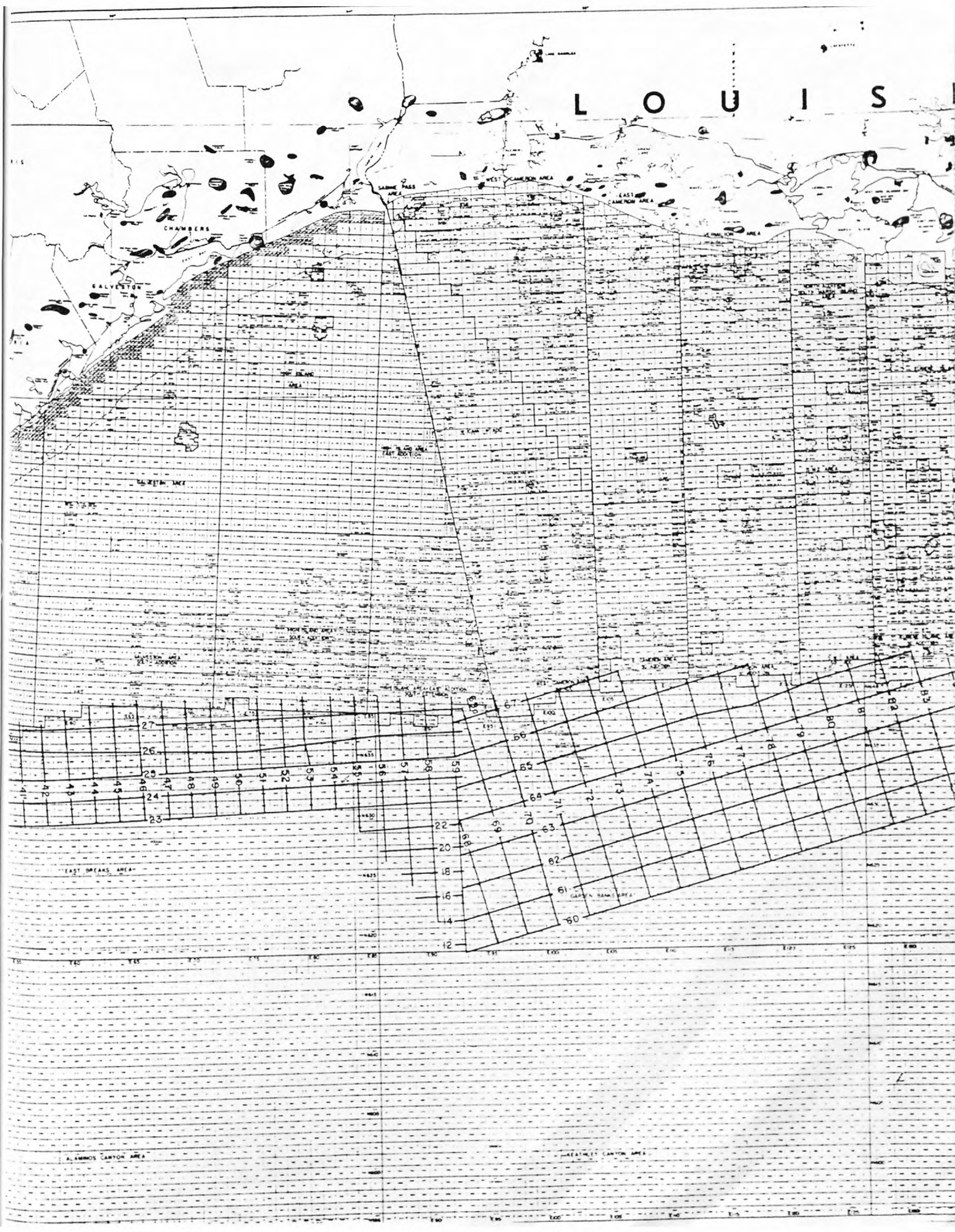
The released data consist of single-channel geophysical records from a 3.5-kHz subbottom profiler and a 1,000-joule sparker operated simultaneously throughout 18,074 km of ships track. Navigation was by Offshore Navigation, Inc., using Loran-C Range-Range in conjunction with a satellite receiver for a nominal positioning accuracy of approximately  $\pm 60$  m. All lines were pre-plotted with a fix point interval of 152 m.

Data quality for all records at all water depths was good to excellent. Recorder sweep rates were 0.5 seconds for the 3.5-kHz and 1.0 sec. for the sparker. Clearly marked shot points and good post-plot maps provide easy correlation of individual geologic features from one scale to the other.

Information about the data can be obtained from Dr. Louis E. Garrison, U.S. Geological Survey, P.O. Box 6732, Corpus Christi, Texas 78411. The original data can be seen at the U.S. Geological Survey offices in Corpus Christi, Texas. Microfilm copies can be obtained from the National Geophysical and Solar Terrestrial Data Center (NGSDC) in Boulder, Colorado 80302.

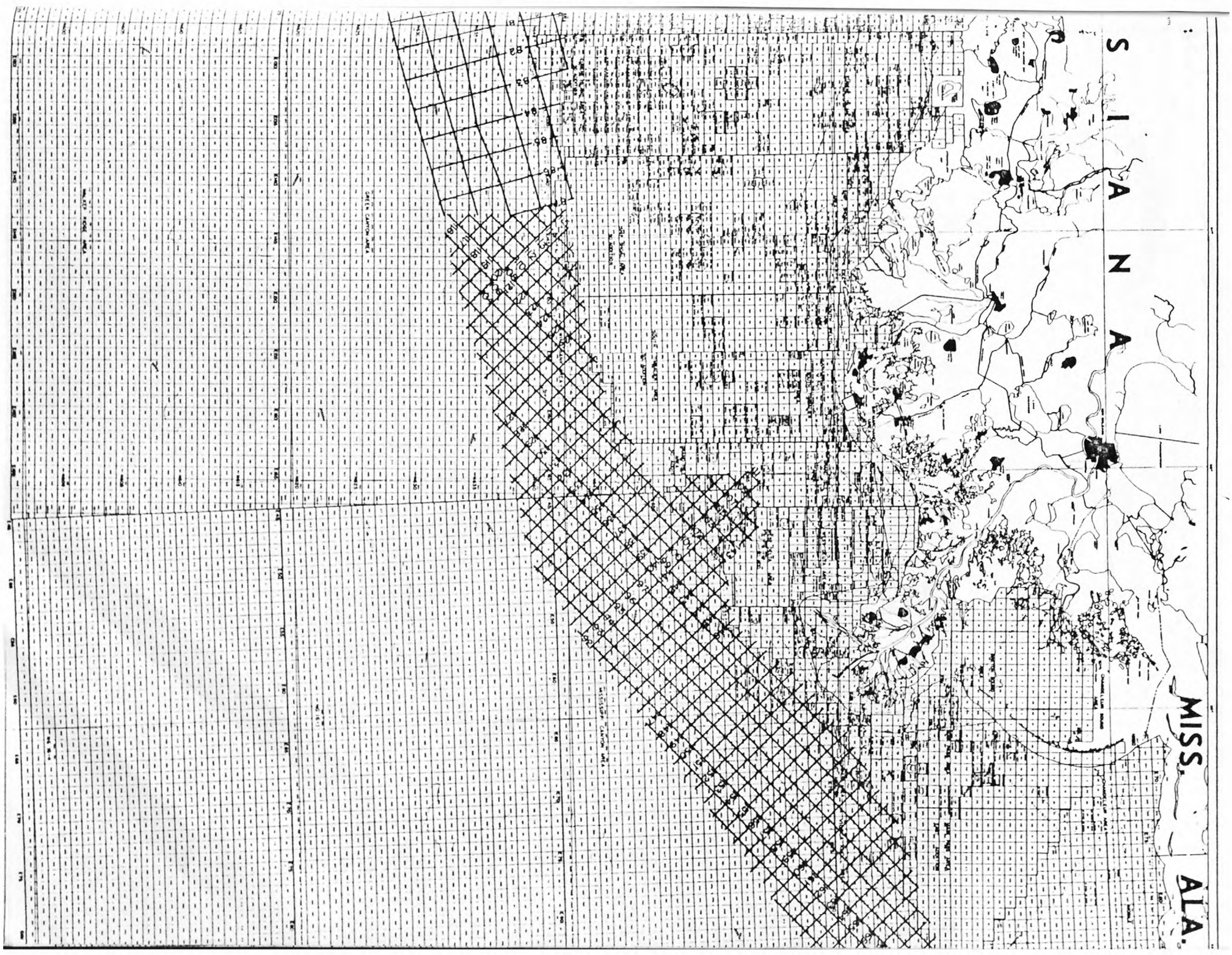


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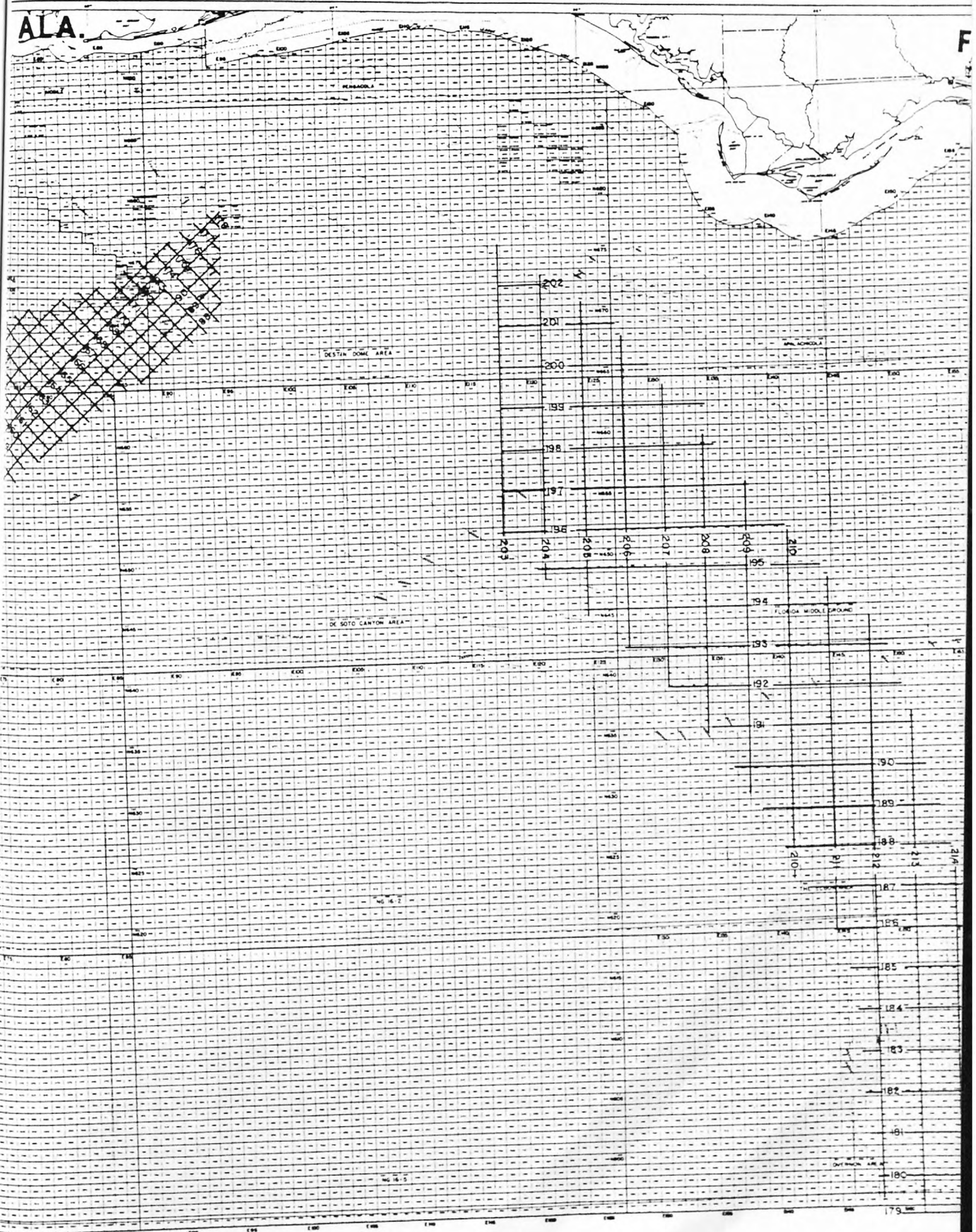
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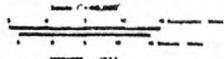


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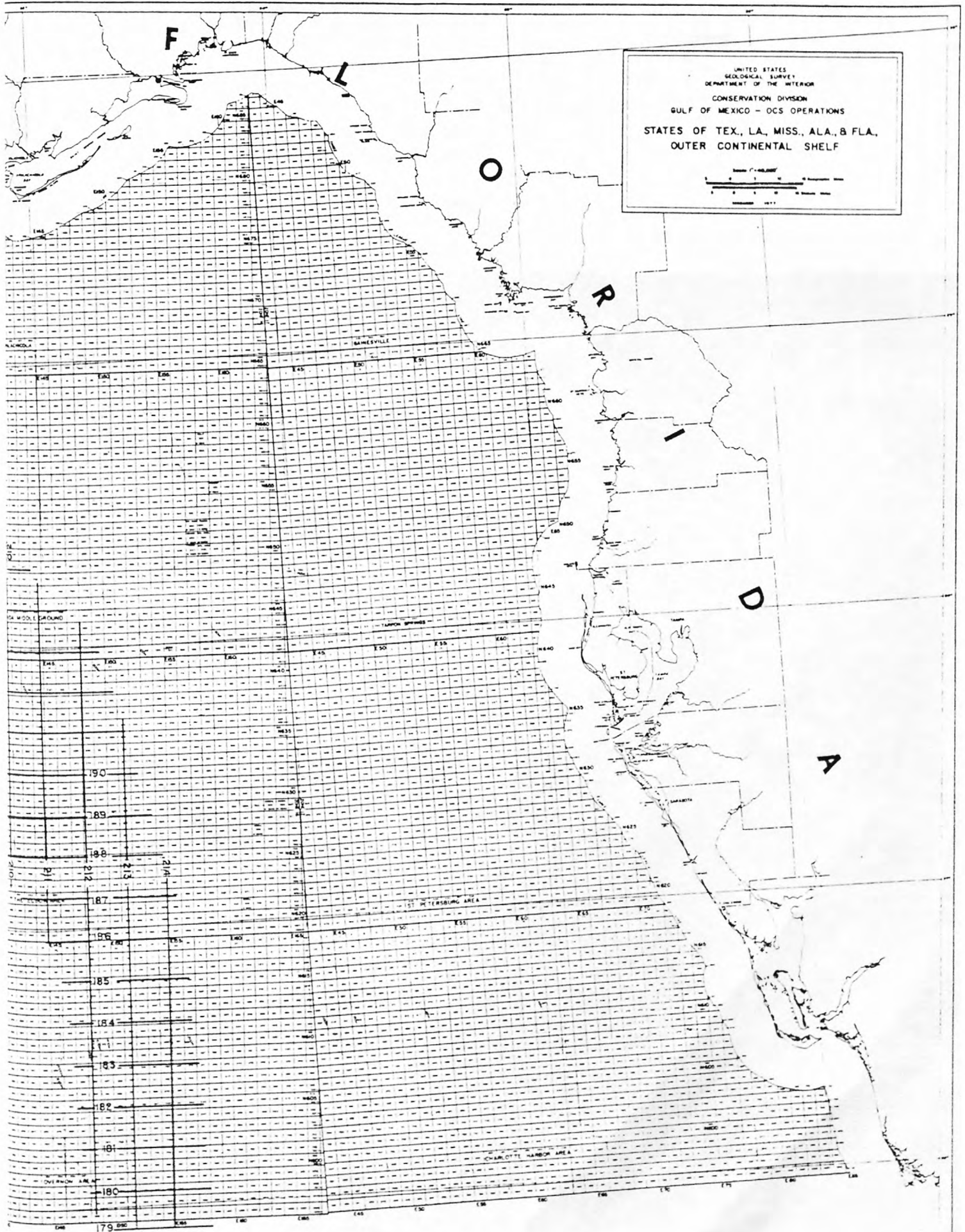
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UNITED STATES GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
2215 R STREET, N.W., WASHINGTON, D.C. 20037  
PHONE (202) 835-6800



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