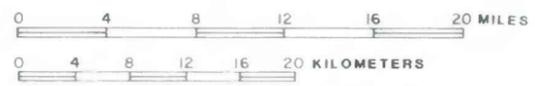


**EXPLANATION**

- 20— LINE OF EQUAL WATER-LEVEL RISE--  
Dashed where approximately located.  
Intervals 20 and 40 feet
- LINE OF EQUAL WATER-LEVEL DECLINE--  
Dashed where approximately located.  
Interval 20 feet
- AREA WHERE WATER LEVELS DECLINED



**INTRODUCTION**

This report, which was prepared in cooperation with the city of Houston and the Harris-Galveston Coastal Subsidence District, presents data on water-level changes in the Chicot and Evangeline aquifers during 1977-87 and 1986-87 (figs. 1-4) and data on measured compaction during 1973-87 (fig. 5).

Water levels in about 500 wells were used to construct the maps showing water-level changes. Compaction data were obtained from 12 wells equipped with compaction monitors (fig. 6).

**METRIC CONVERSIONS**

Factors for converting inch-pound units to metric (International System) units are given in the following table:

Multiply inch-pound unit	By	To obtain metric unit
foot	0.3048	meter
mile	1.609	kilometer

For additional information write to:

District Chief  
U.S. Geological Survey  
649 Federal Building  
300 E. Eighth Street  
Austin, TX 78701

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**FIGURE 1.--MAP SHOWING APPROXIMATE CHANGE IN WATER LEVELS IN WELLS IN THE CHICOT AQUIFER, SPRING 1977 TO SPRING 1987.**

**APPROXIMATE WATER-LEVEL CHANGES IN WELLS COMPLETED IN THE CHICOT AND EVANGELINE AQUIFERS, 1977-87 AND 1986-87, AND MEASURED COMPACTION, 1973-87, IN THE HOUSTON-GALVESTON REGION, TEXAS**

By

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1987

Base from USGS topographic quadrangles