DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

APPROXIMATE WATER-LEVEL CHANGES IN WELLS
COMPLETED IN THE CHICOT AND EVANGELINE
AQUIFERS, 1977-89 AND 1988-89, AND MEASURED
COMPACTION, 1973-89, IN THE
HOUSTON-GALVESTON REGION, TEXAS

DANA L. BARBIE, L.S. COPLIN, AND C.W. BONNET

U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 89-057



Prepared in cooperation with the CITY OF HOUSTON and the HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT

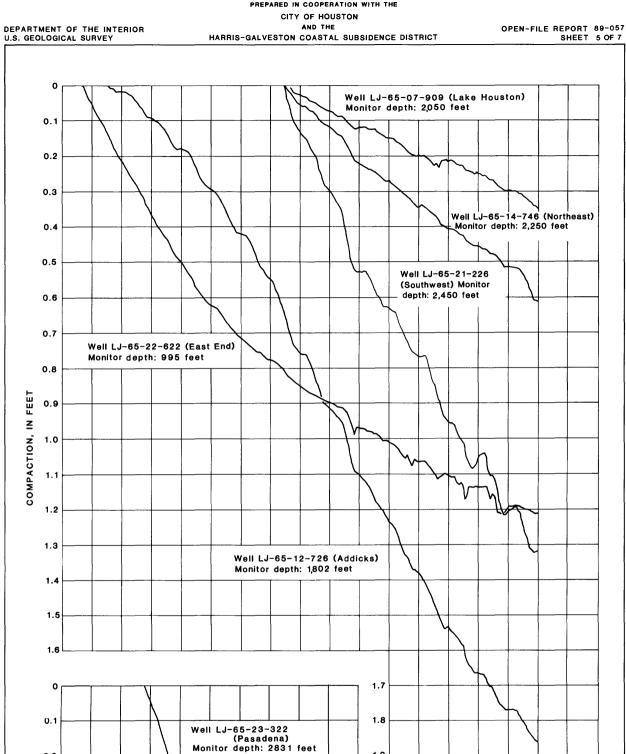


FIGURE 5A.--MEASURED COMPACTION, 1973-89 APPROXIMATE WATER-LEVEL CHANGES IN WELLS COMPLETED IN THE CHICOT AND EVANGELINE AQUIFERS, 1977-89 AND 1988-89, AND MEASURED COMPACTION, 1973-89, IN THE HOUSTON-GALVESTON REGION, TEXAS

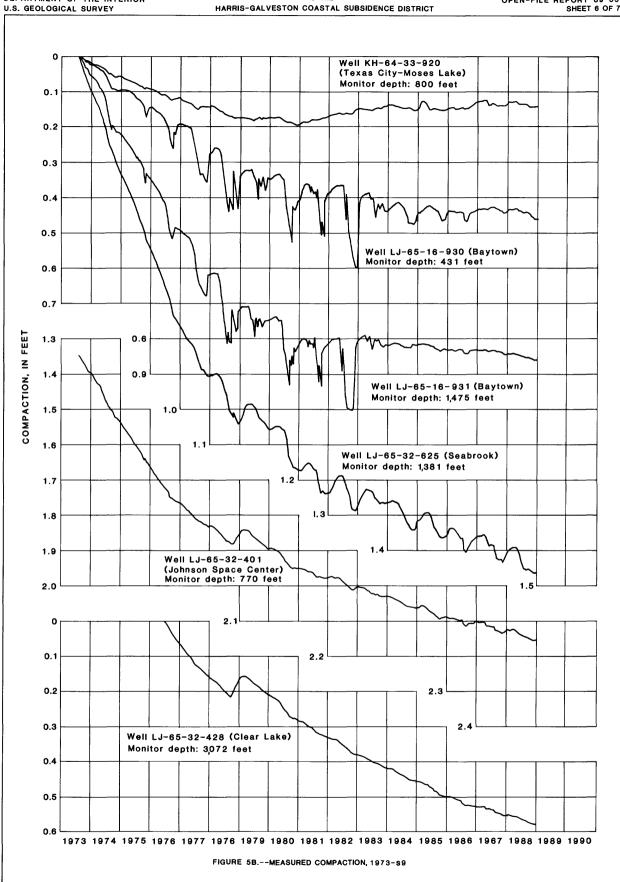
1973 1974 1975 1976 1977 1976 1979 1980 1961 1982 1983 1984 1965 1966 1987 1988 1989 1990

1.9

0.2

0.3

0.5



APPROXIMATE WATER-LEVEL CHANGES IN WELLS COMPLETED IN THE CHICOT AND EVANGELINE AQUIFERS, 1977-89 AND 1988-69, AND MEASURED COMPACTION, 1973-89, IN THE HOUSTON-GALVESTON REGION, TEXAS

PREPARED IN COOPERATION WITH THE CITY OF HOUSTON

HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT

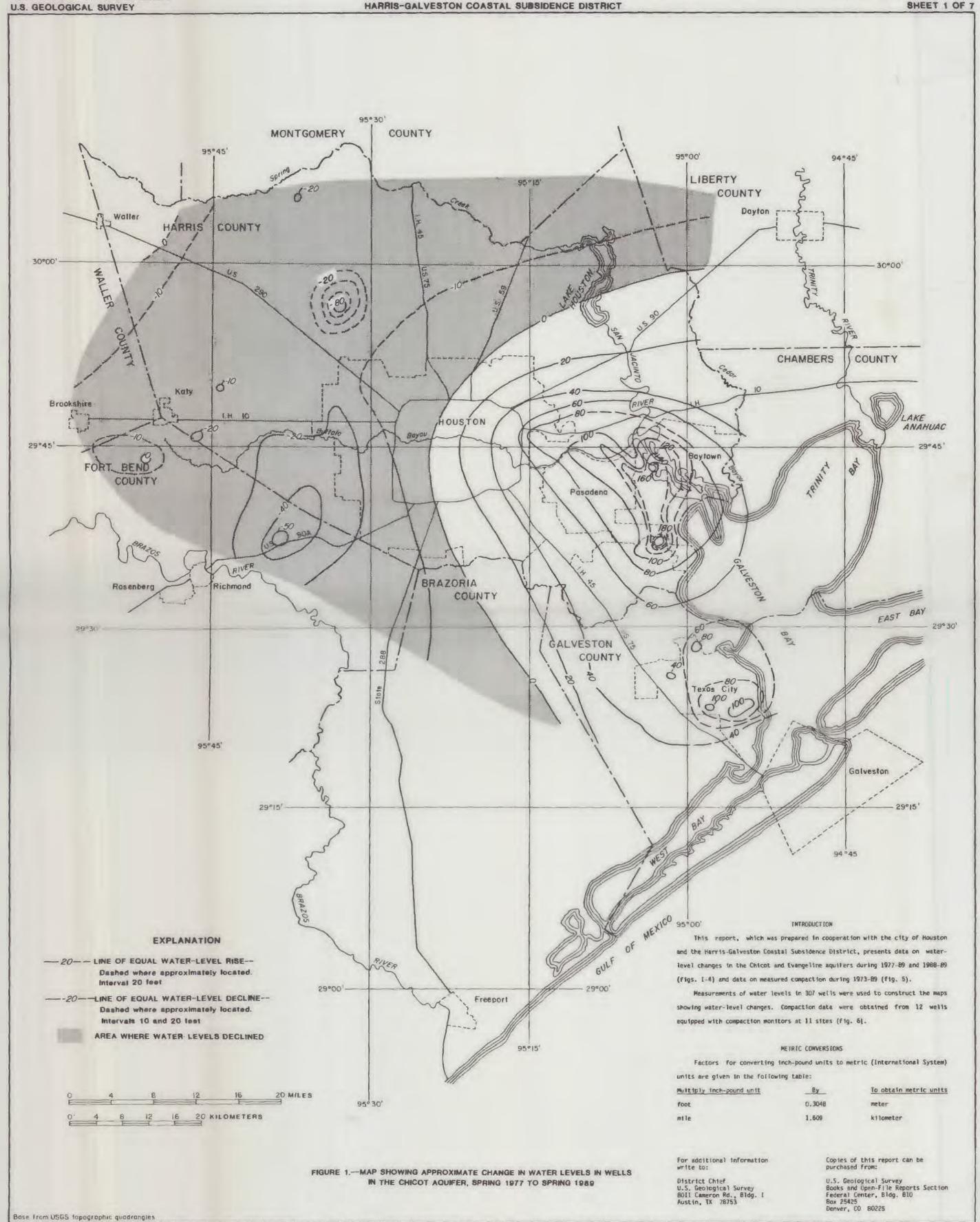
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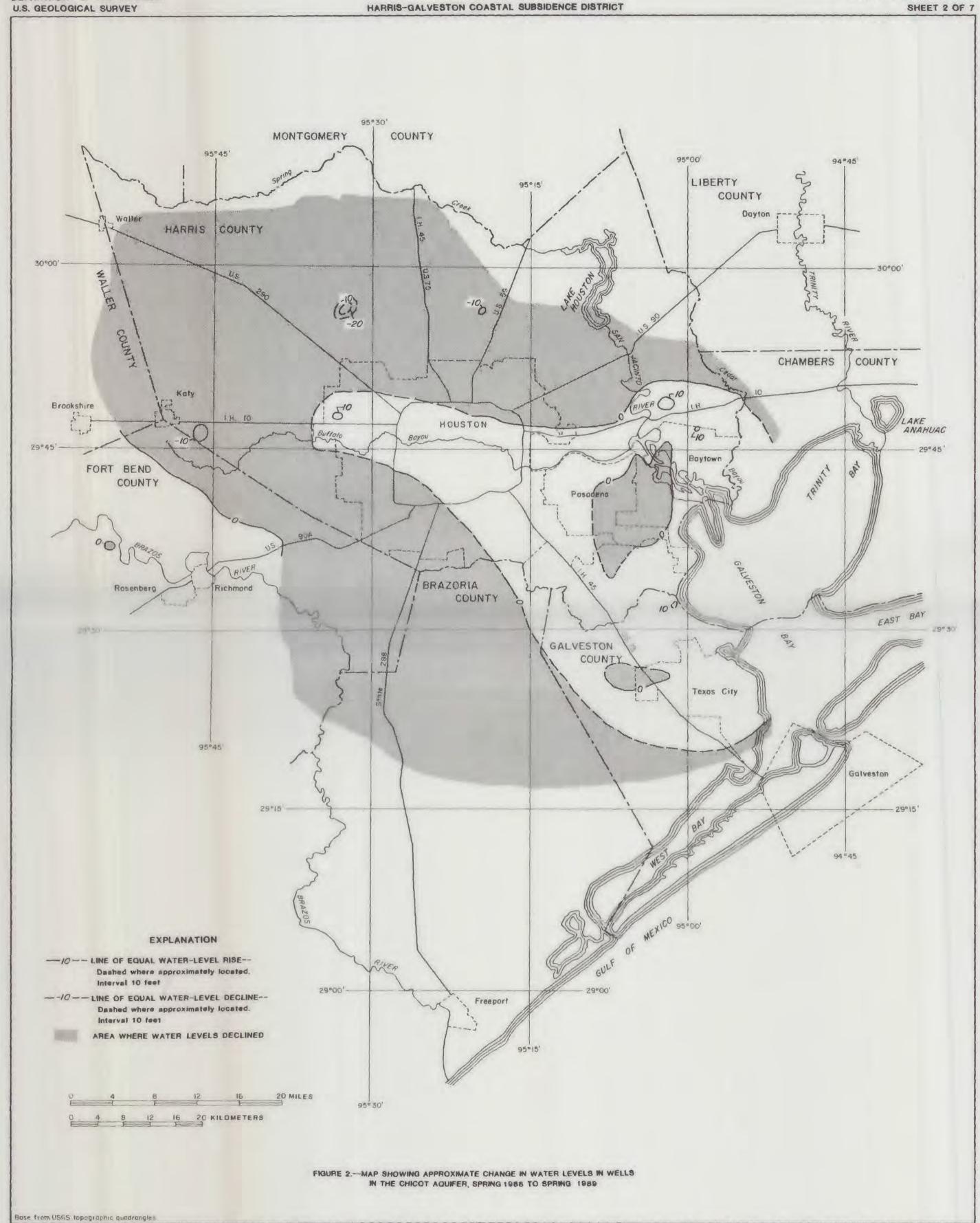
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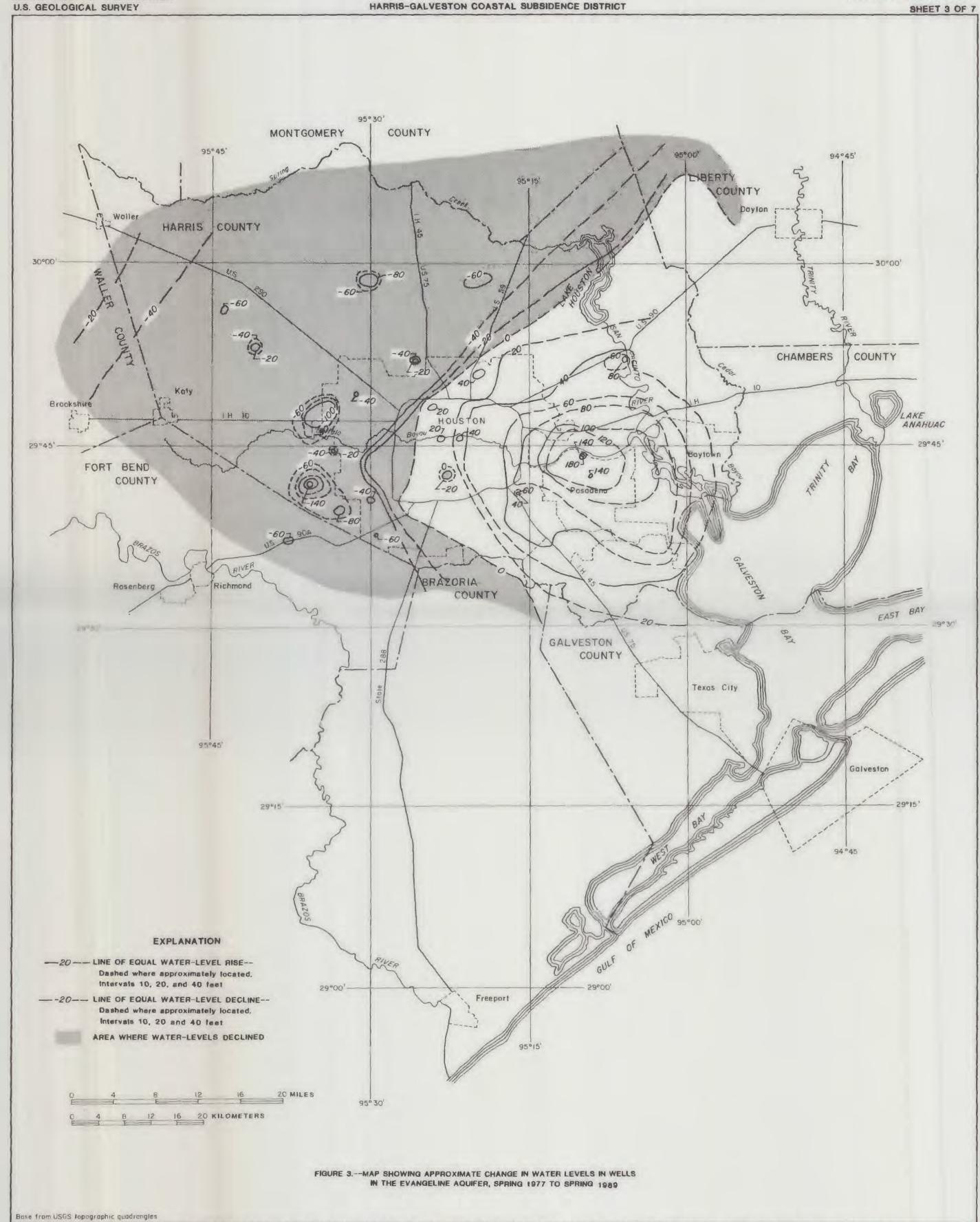
OPEN-FILE REPORT 89-057

U.S. GEOLOGICAL SURVEY FORT BENC FIGURE 6 .-- LOCATIONS OF BOREHOLE EXTENSOMETERS Lake Houston East End O Clear Lake OPasadena A Property of the Contract of SHEET 7 OF 7

APPROXIMATE WATER-LEVEL CHANGES IN WELLS COMPLETED IN THE CHICOT AND EVANGELINE AQUIFERS, 1977-89 AND 1988-89, AND MEASURED COMPACTION, 1973-89, IN THE HOUSTON-GALVESTON REGION, TEXAS







OPEN-FILE REPORT 89-057 DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT SHEET 4 OF 7 MONTGOMERY COUNTY 95°45 95°00' 94°45 LIBERTY 95°15 COUNTY Dayton Waller -OHARRIS COUNTY 30°00'--30°00' COUNTY CHAMBERS COUNTY Brookshire Boyou HOUSTON ANAHUAC 29°45 -29°45 FORT BEND COUNTY 0-0-10 Posadena 0-0 20 0 BRAZORIA Richmond Rosenberg COUNTY EAST BAY 29°30' 29"50" GALVESTON COUNTY Texas City Galveston 29015 EXPLANATION Dashed where approximately located. Intervals tO and 20 feet 29°00'--20--- LINE OF EQUAL WATER-LEVEL DECLINE--Freeport Dashed where approximately located. Intervals 10 and 20 feet AREAS WHERE WATER LEVELS DECLINED 95° 30' 20 KILOMETERS

Base from USSE Inpographic quadrangles APPROXIMATE WATER-LEVEL CHANGES IN WELLS COMPLETED IN THE CHICOT AND EVANGELINE AQUIFERS, 1977-89 AND 1988-89, AND MEASURED COMPACTION, 1973-89, IN THE HOUSTON-GALVESTON REGION, TEXAS

FIGURE 4.--MAP SHOWING APPROXIMATE CHANGE IN WATER LEVELS IN WELLS IN THE EVANGELINE AQUIFER, SPRING 1988 TO SPRING 1989.