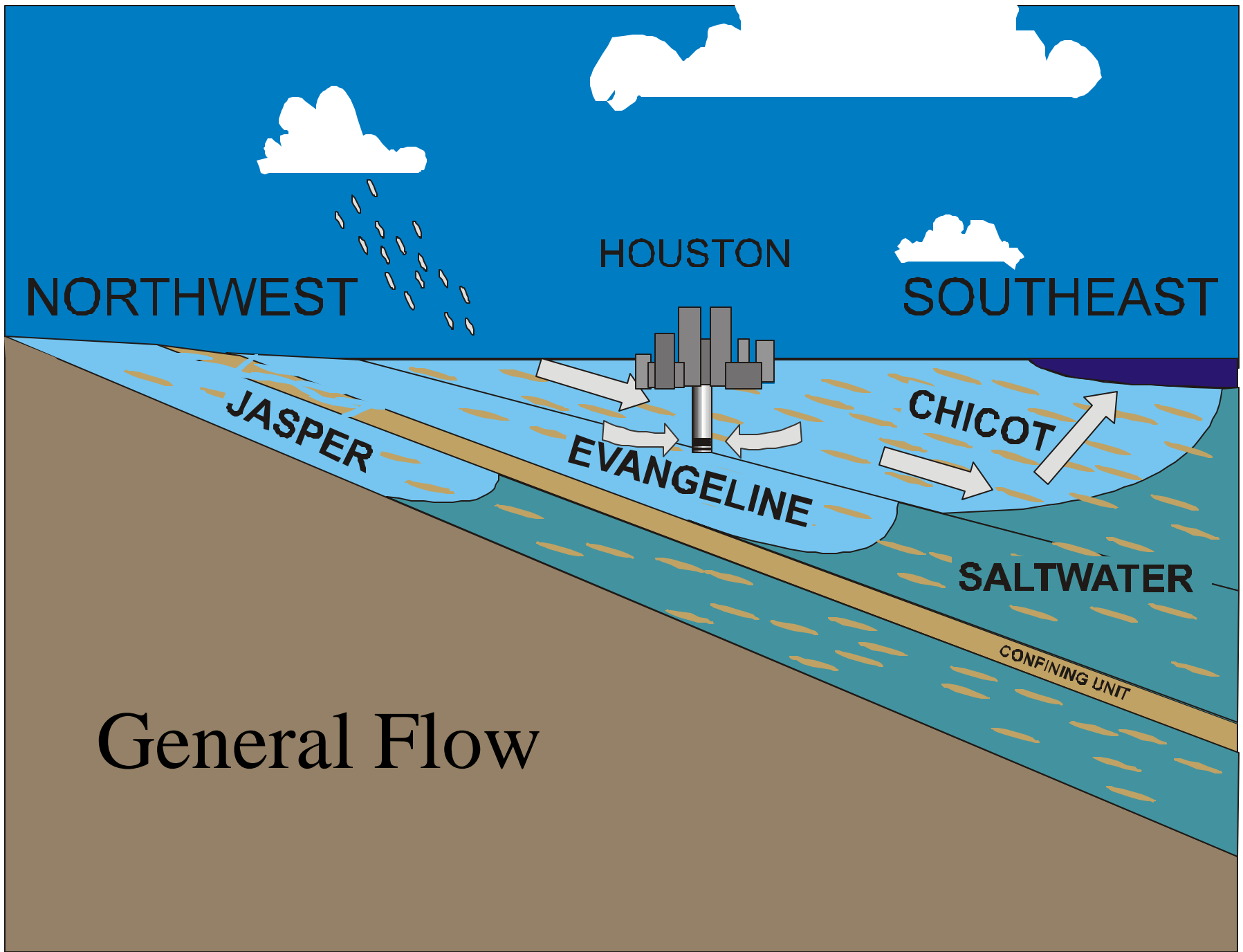


SIMULATION OF GROUND-  
WATER FLOW AND LAND-  
SURFACE SUBSIDENCE  
GULF COAST

Mark C. Kasmarek & Eric W. Strom

In Cooperation with the  
City of Houston



NORTHWEST

HOUSTON

SOUTHEAST

JASPER

EVANGELINE

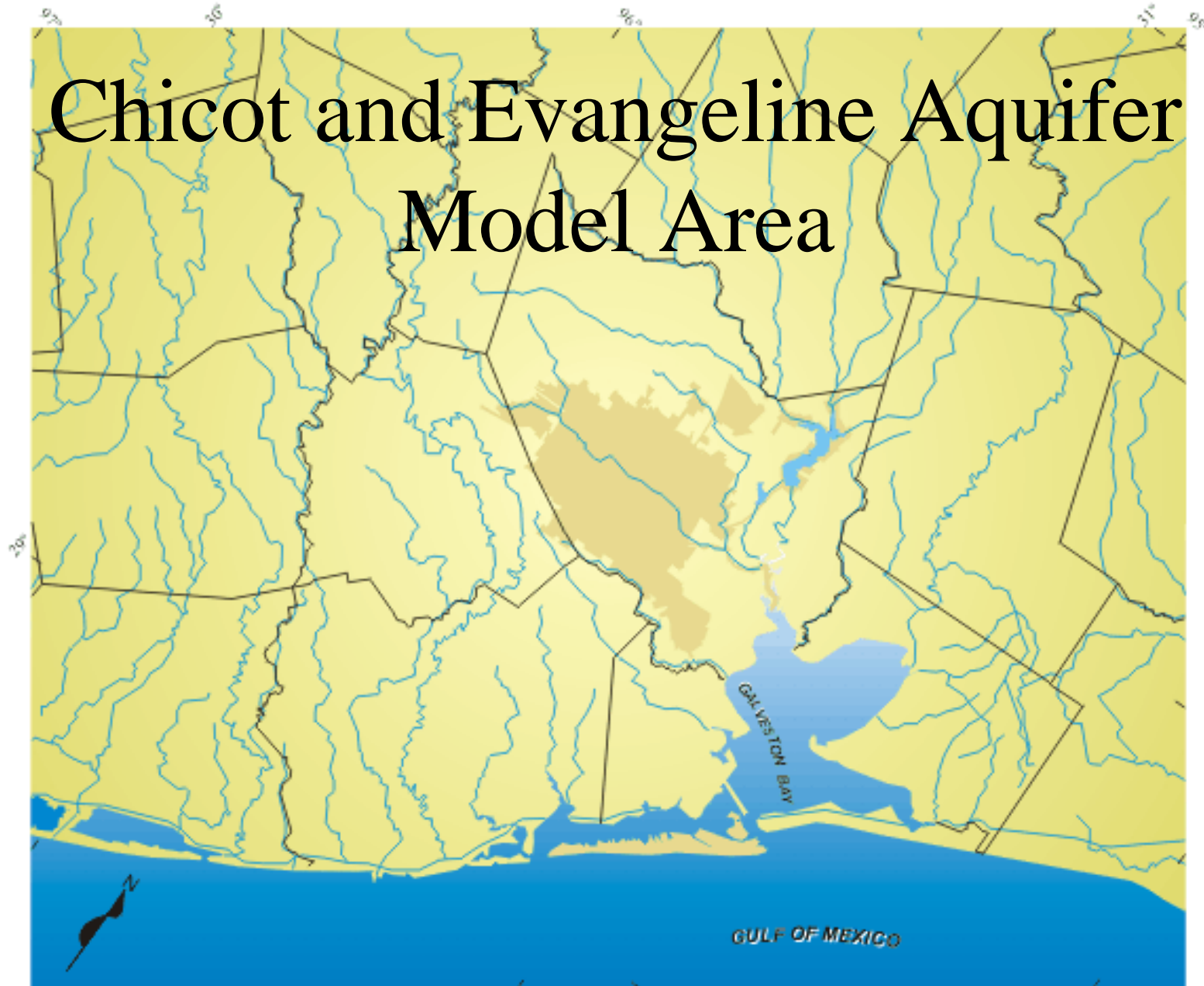
CHICOT

SALTWATER

CONFINING UNIT

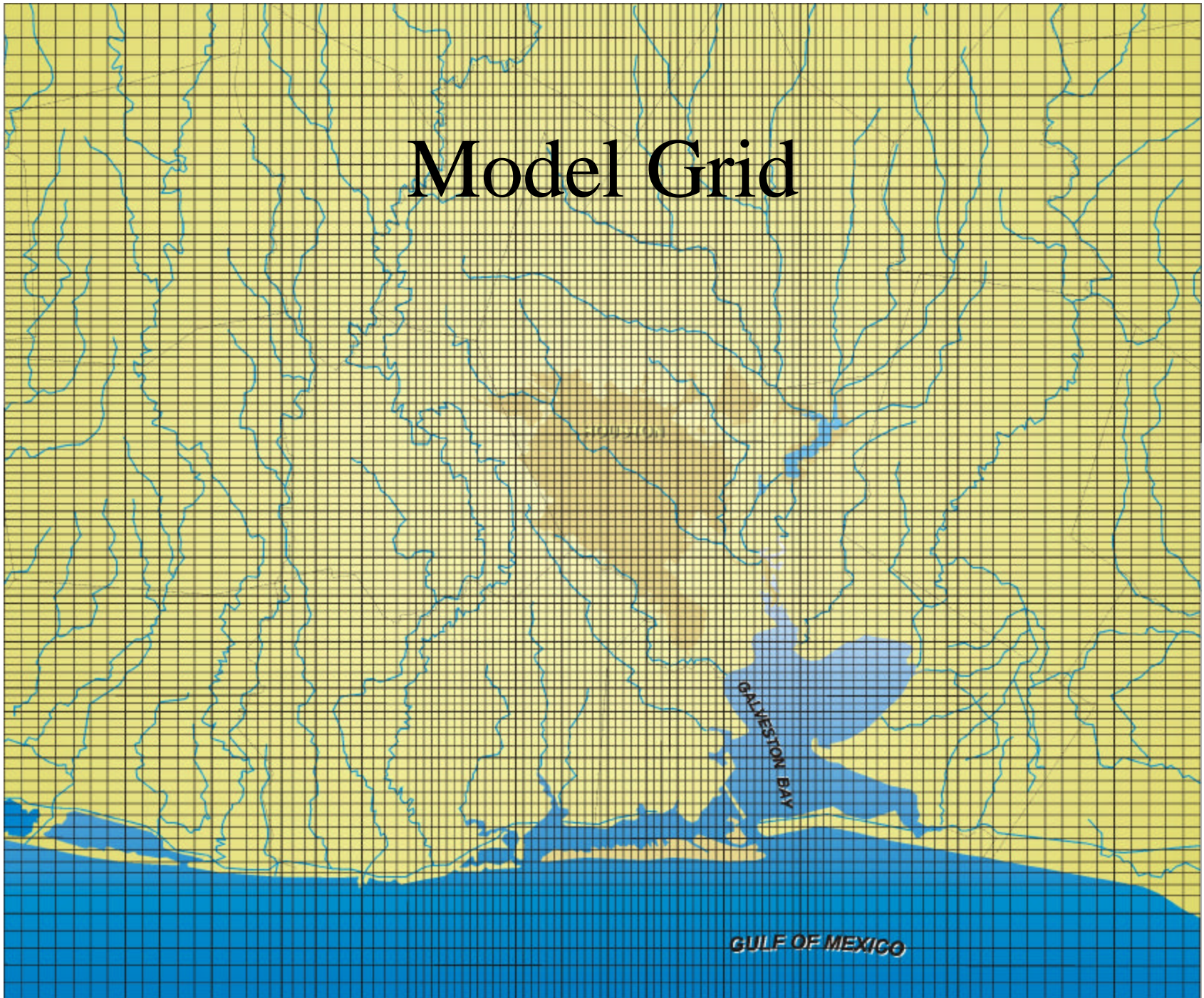
General Flow

# Chicot and Evangeline Aquifer Model Area

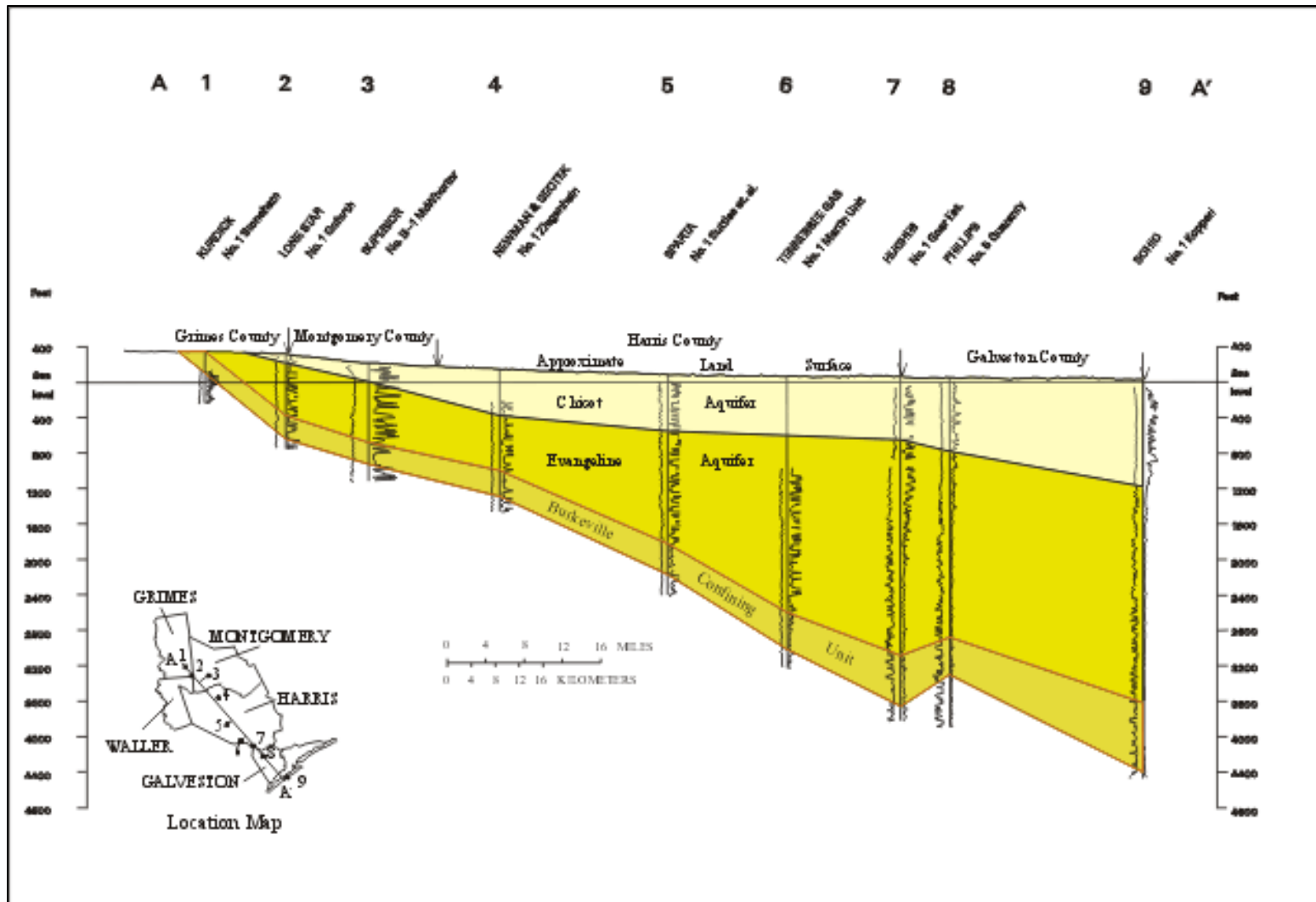




# Model Grid

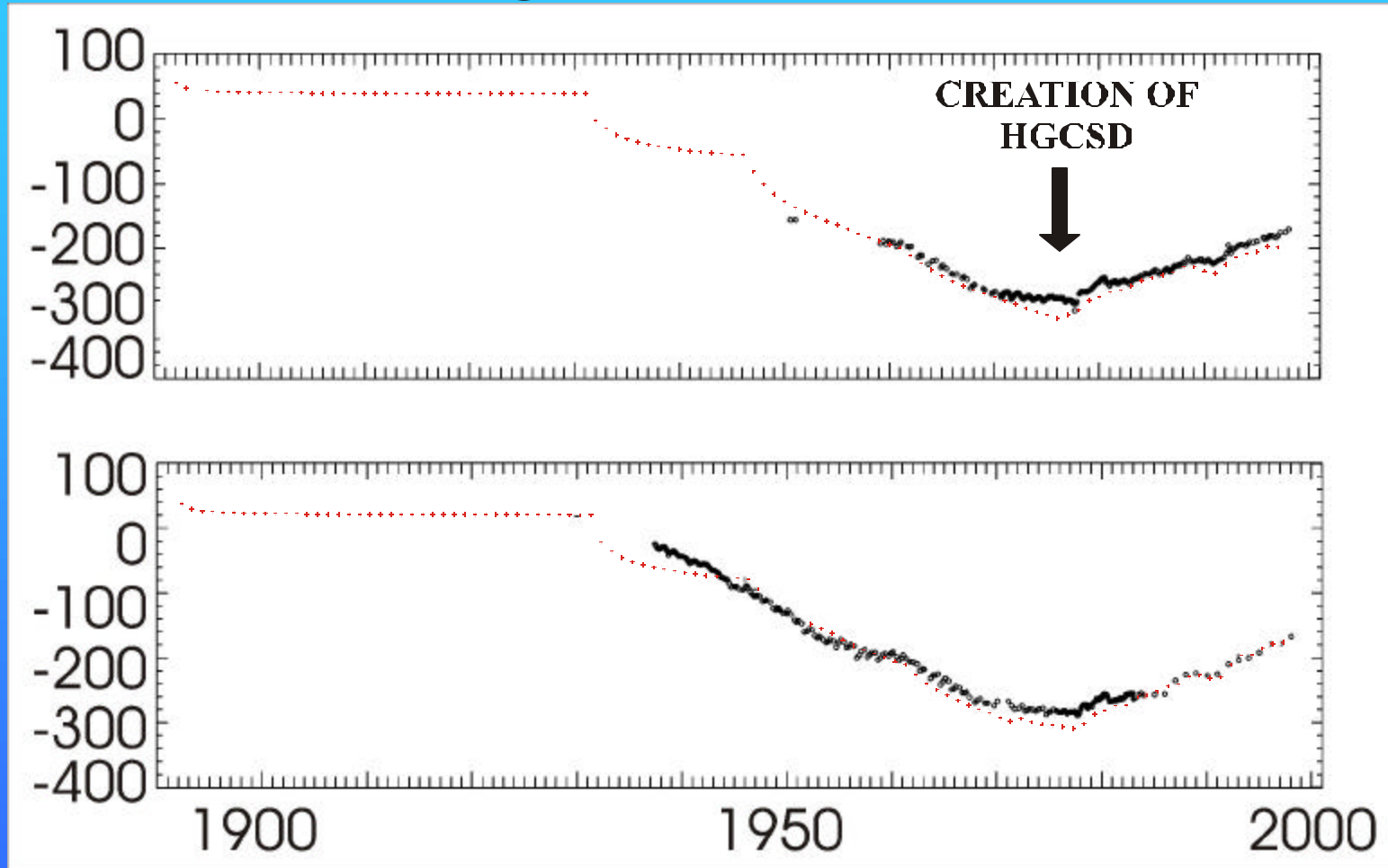


# Geologic Cross Section

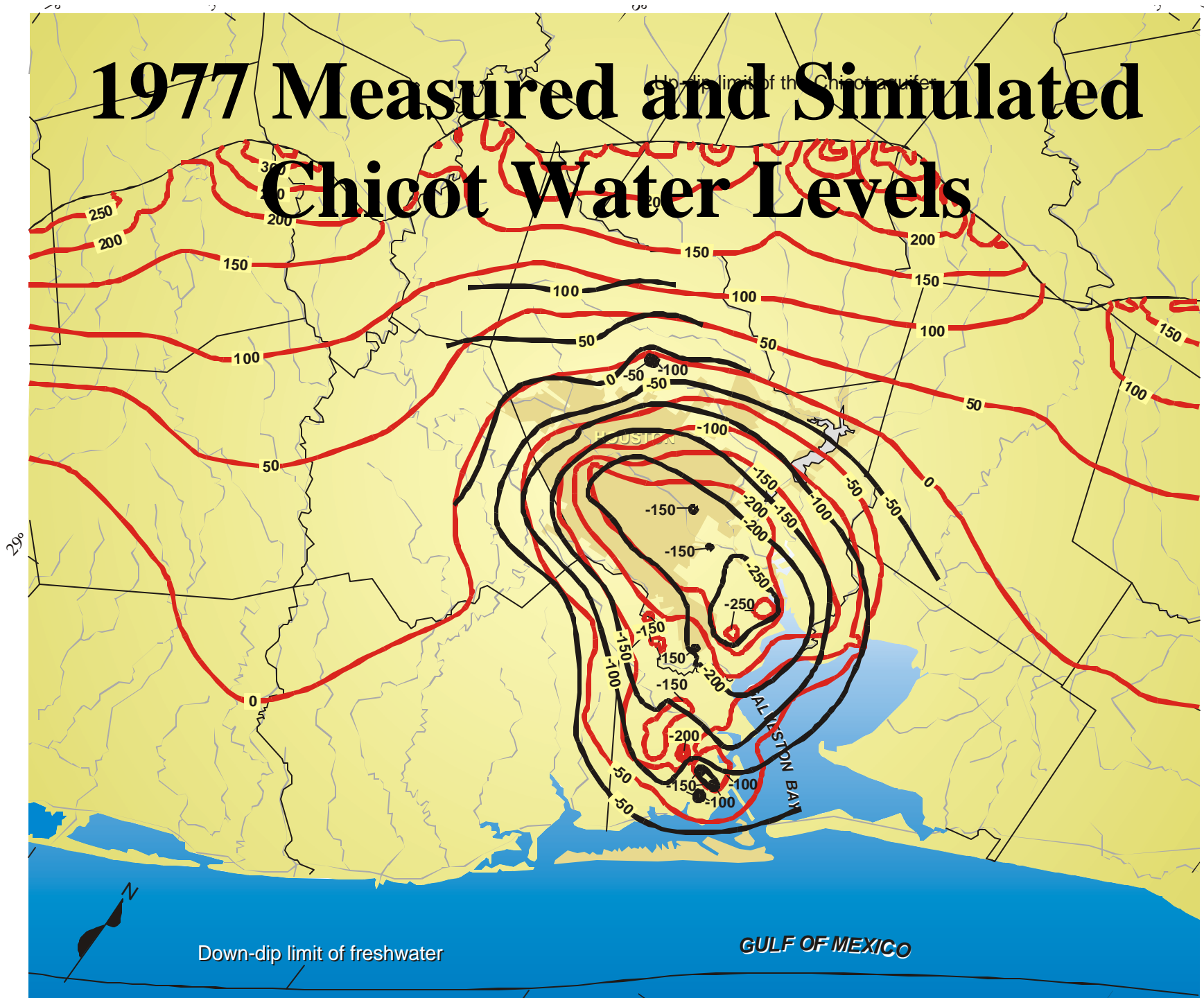




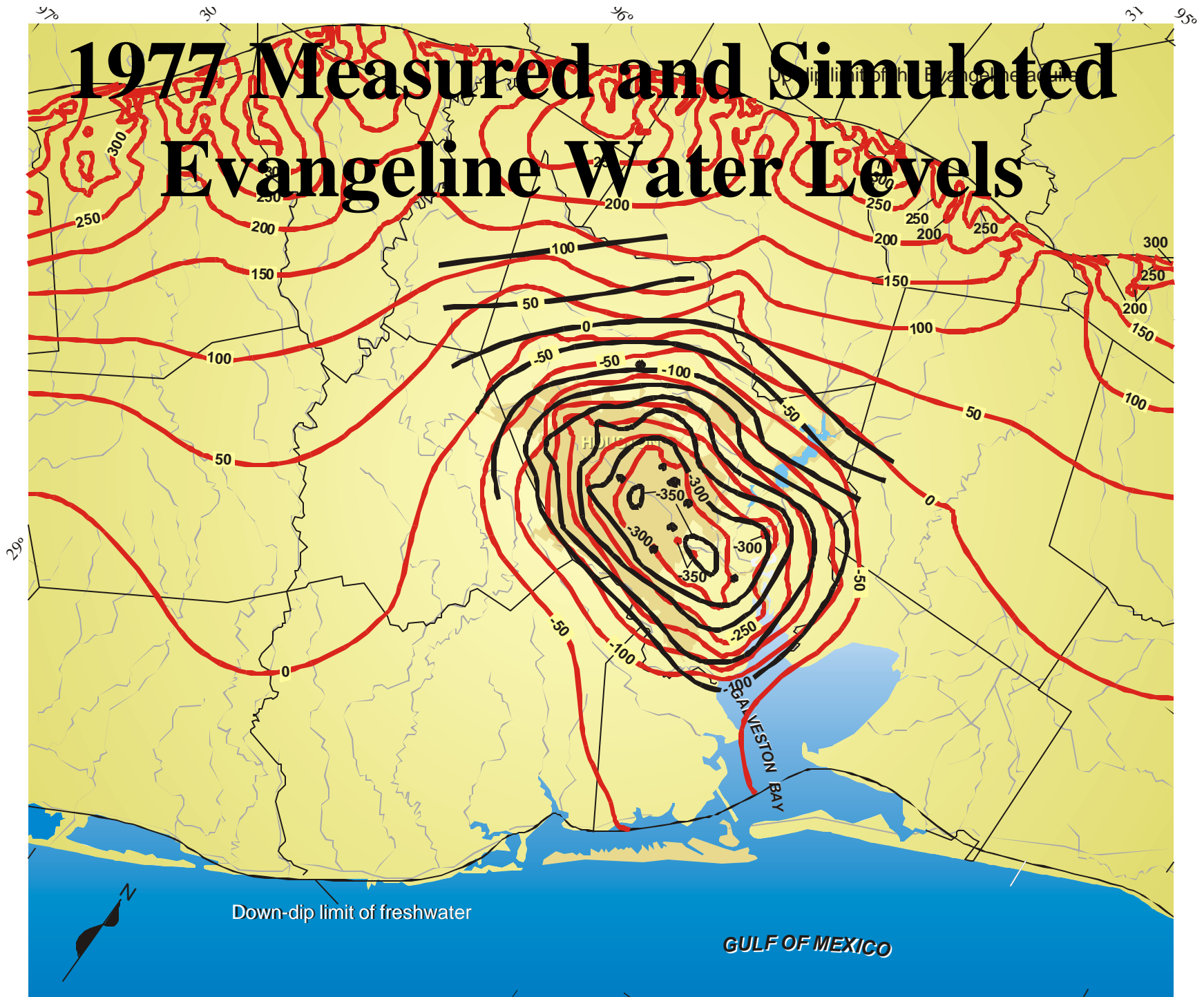
# Long-Term Trends



# 1977 Measured and Simulated Chicot Water Levels

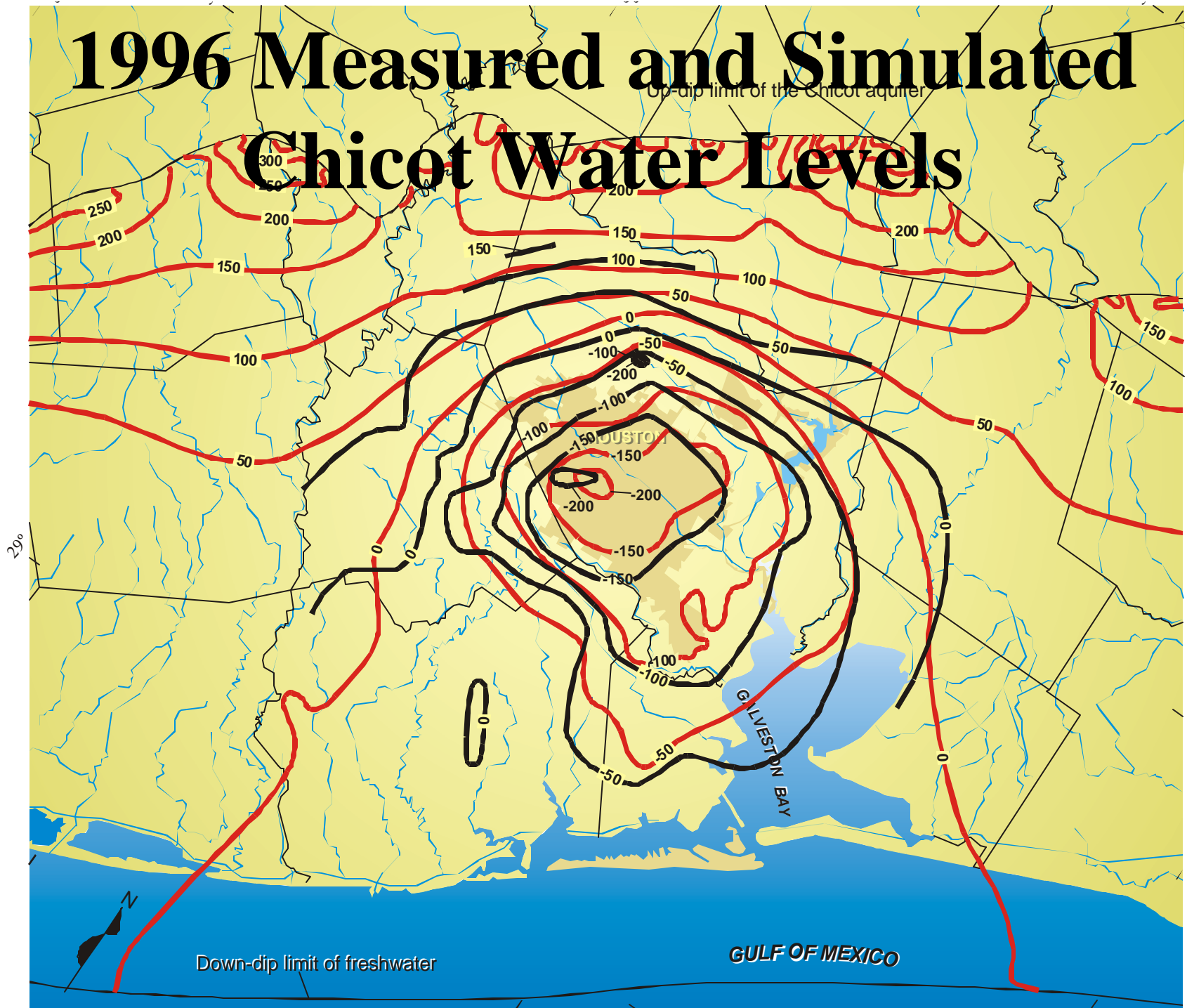


# 1977 Measured and Simulated Evangelina Water Levels

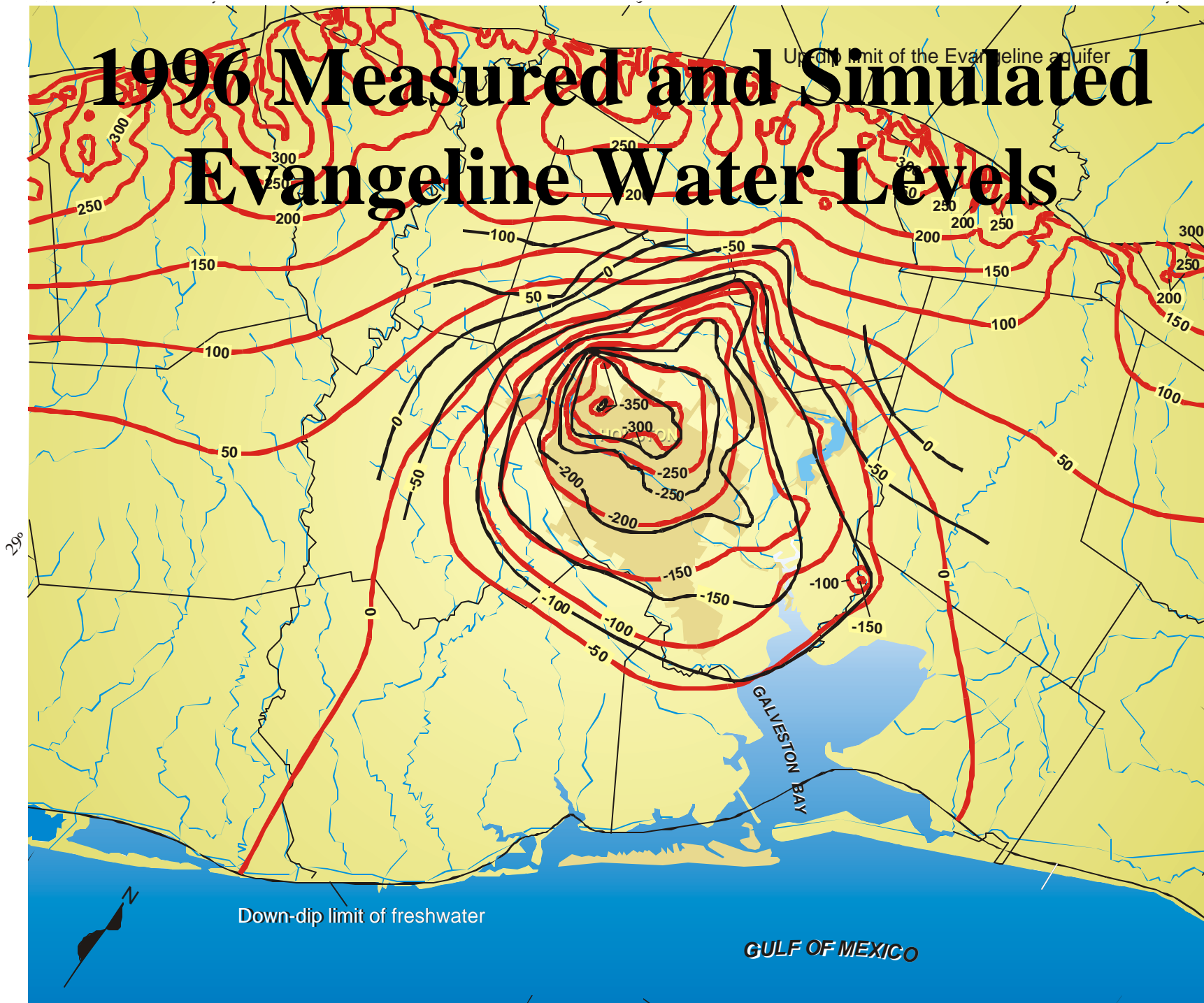


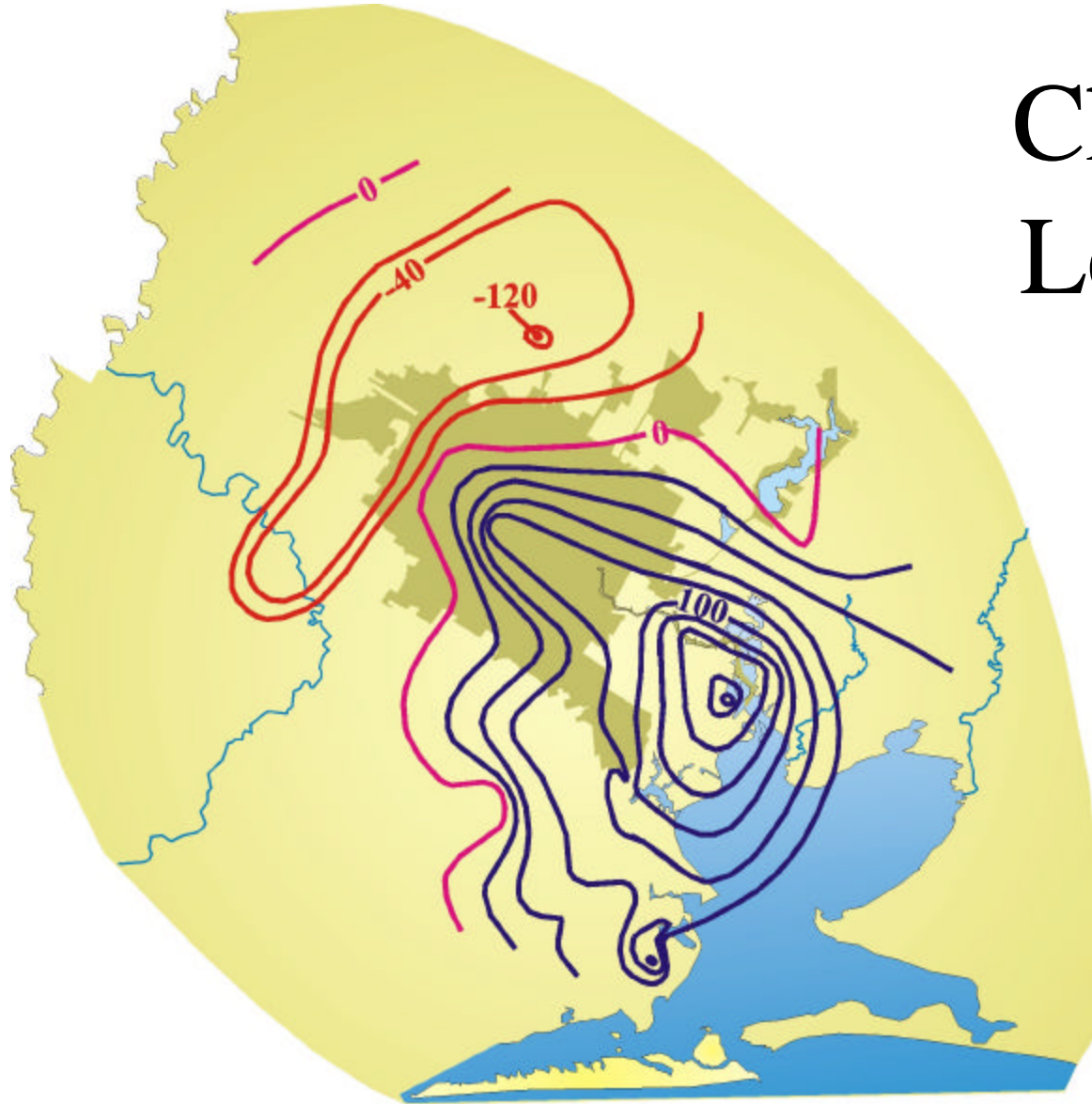


# 1996 Measured and Simulated Chicot Water Levels



# 1996 Measured and Simulated Evangeline Water Levels

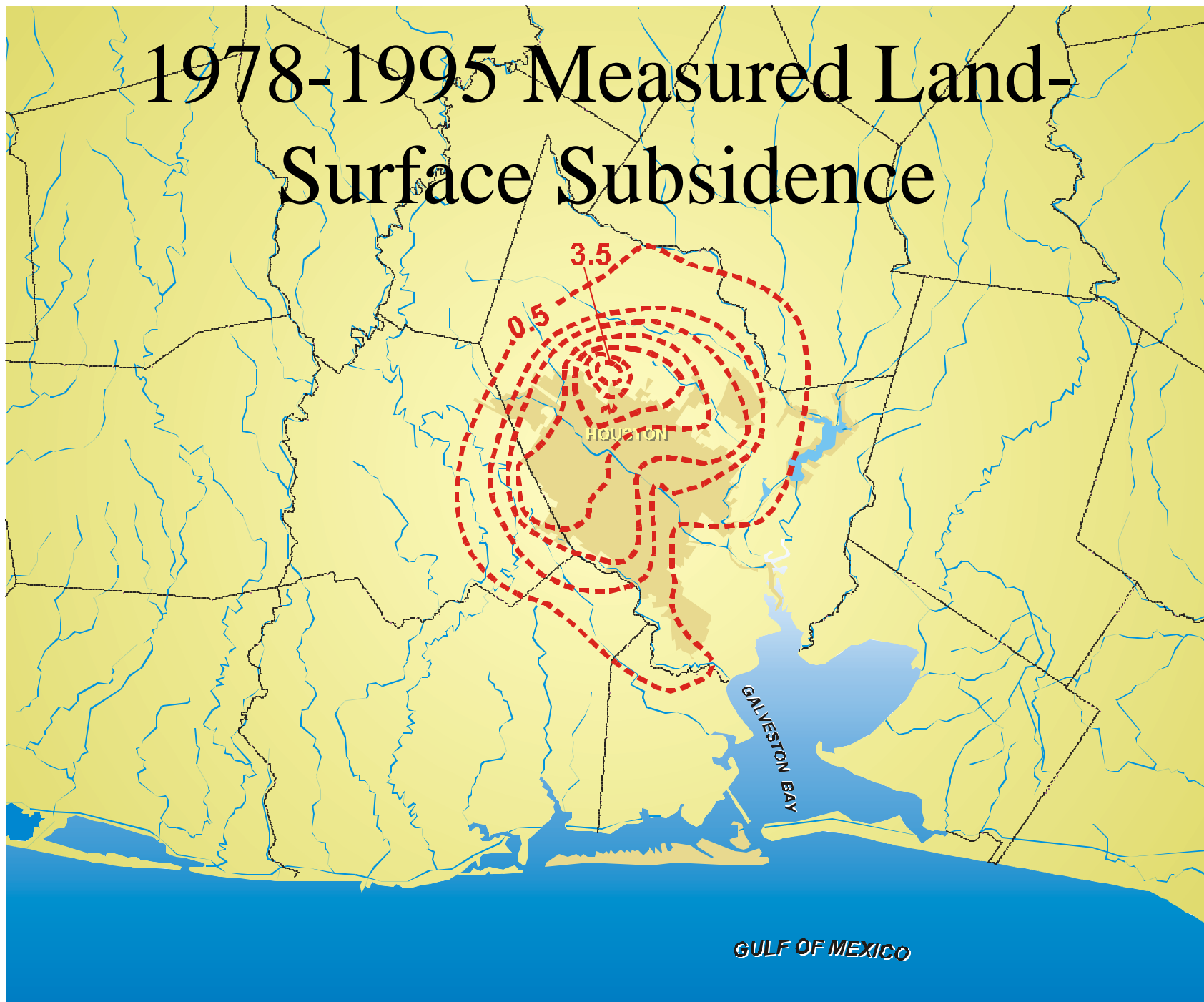




# Chicot Water- Level Change Map

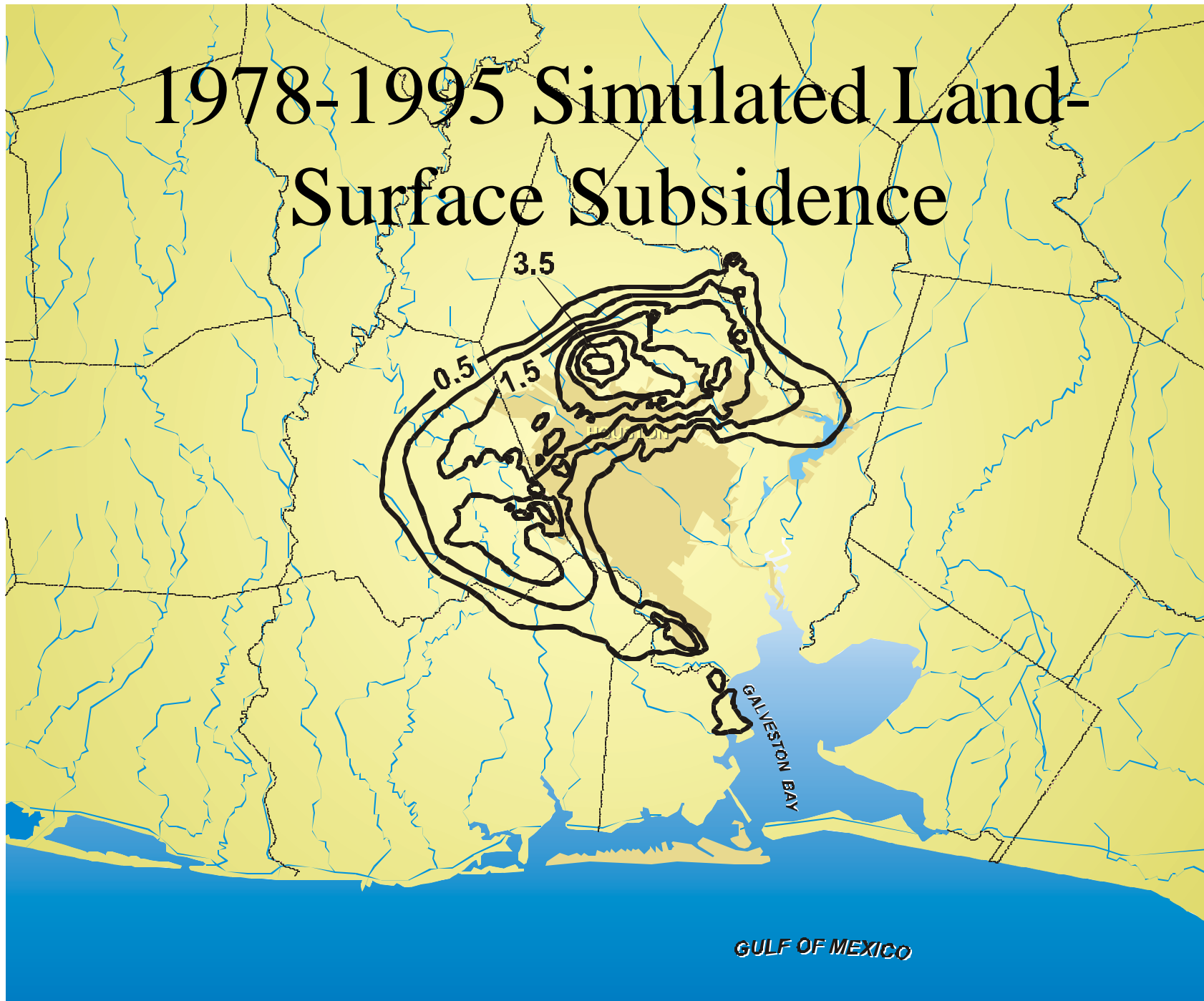
1977-1999

# 1978-1995 Measured Land-Surface Subsidence



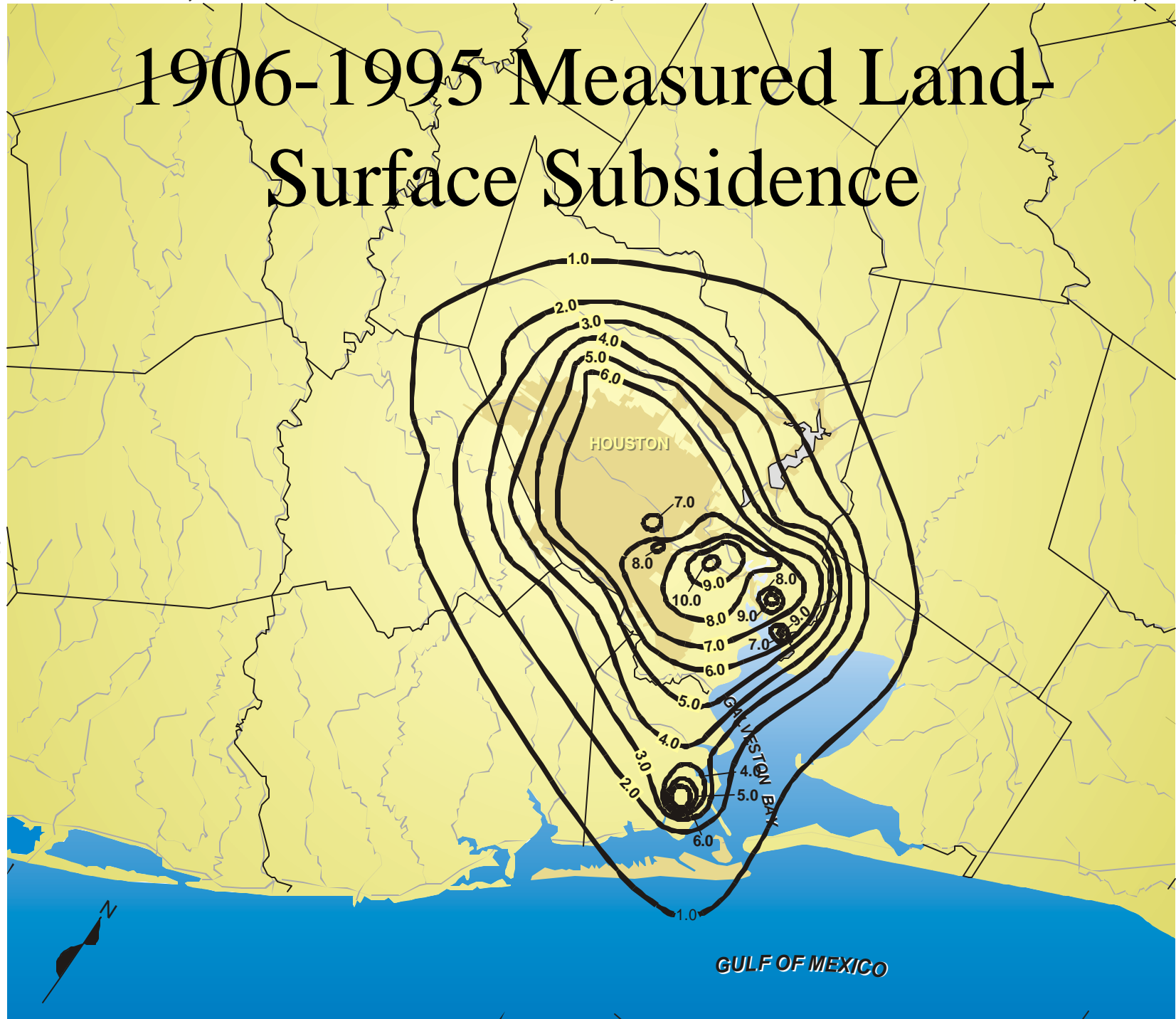


# 1978-1995 Simulated Land-Surface Subsidence



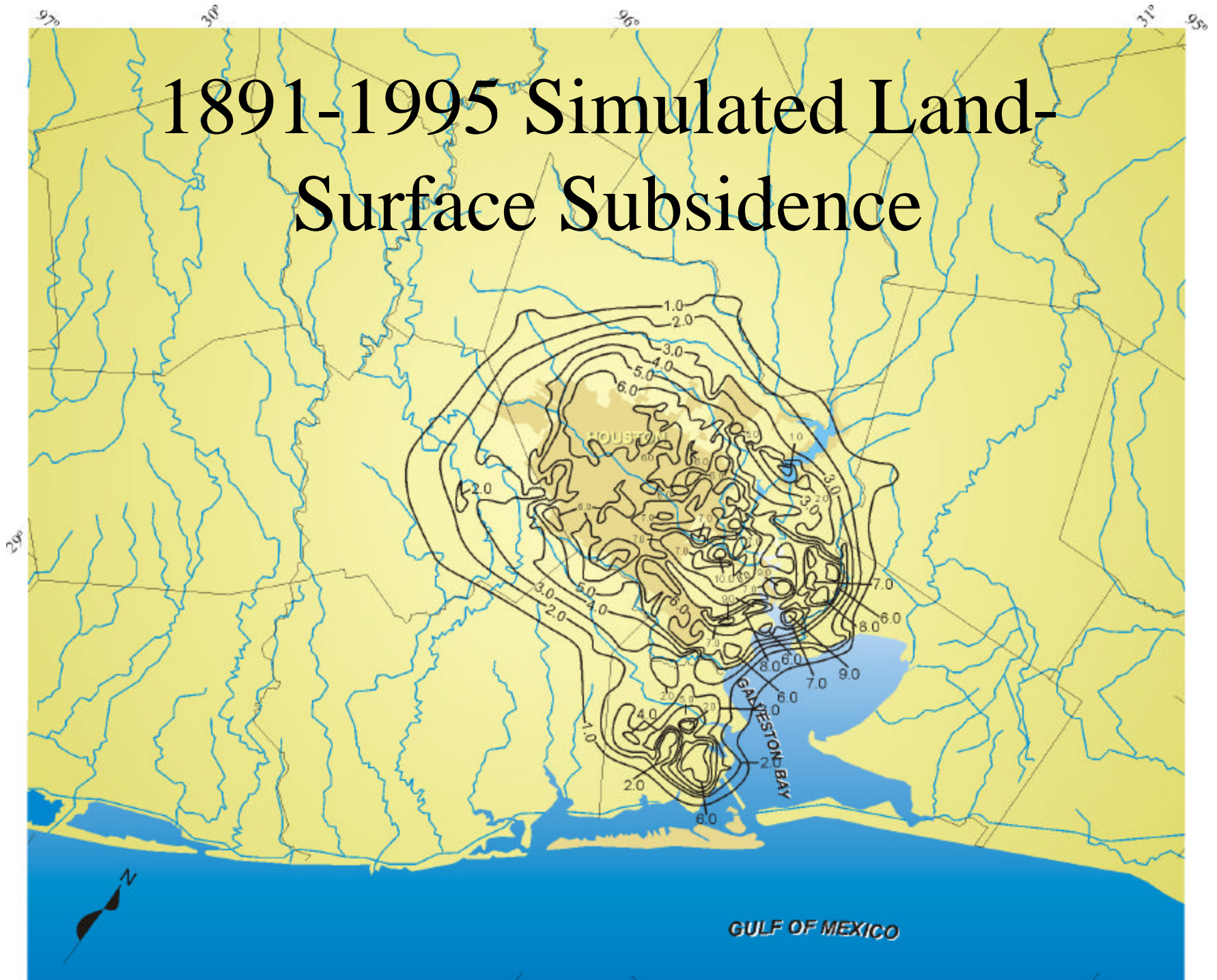
# 1906-1995 Measured Land-Surface Subsidence

29°



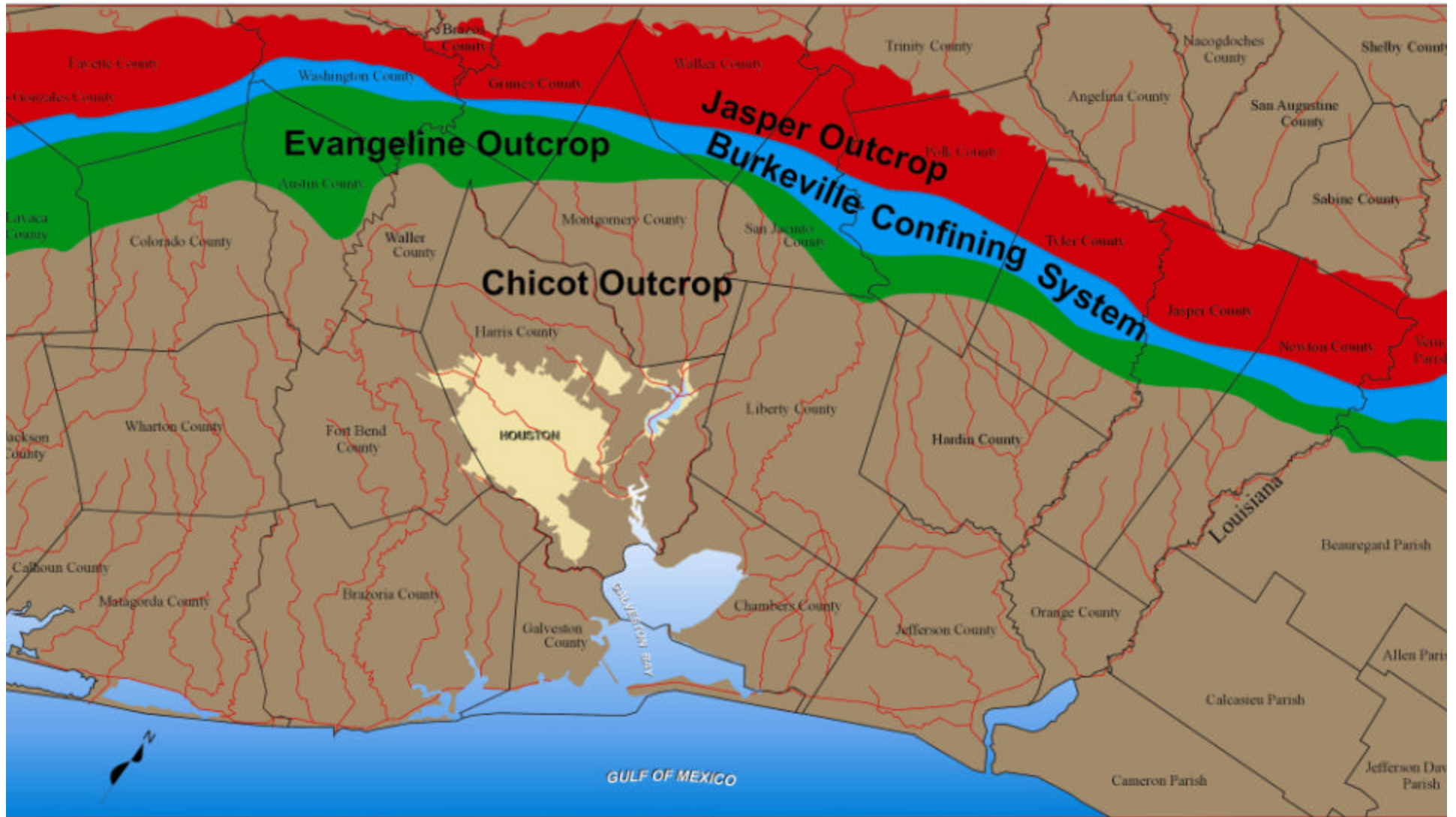
GULF OF MEXICO

# 1891-1995 Simulated Land-Surface Subsidence





# UPPER GULF COAST GAM BOUNDARIES





Attendance list for the May 2, 2001 SAF Meeting, Gulf Coast North GAM

Name	Affiliation
Bob Pickens	Colorado Co-Port Oak GCD
Eric Storm	USGS
Melvin Swoboda	DuPont/Region I RWPG
Don Strickland	Brazos Valley Council
Ira (Bud) Haynie	Crimes Co. Judge
Tom Wilikinson	Brazos valley Co. of Govt.
Robert K. Gabrysch	Consultant GW Hydrologist
Ron Neighbors	General Manager
Dave Killen	URS Corporation
Reed Eichelberg	San Jacinto River Authority
Jun Chang	City of Houston
Tom Michel	Subsidence district
Mark C. Kasmarek	USGS
Clint Moore	North Harris County Regional Water Authority
Haskell Simon	Matagorda County GCD/Reg. K