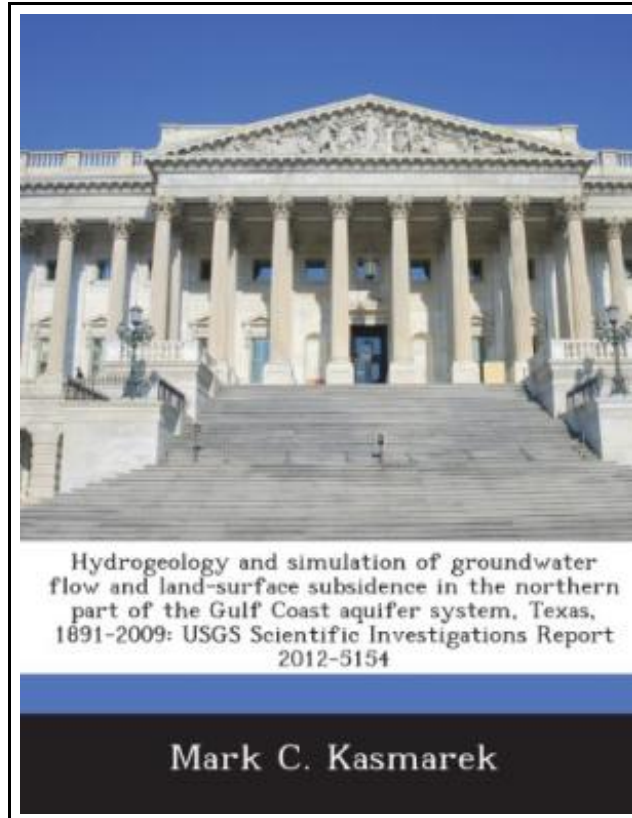


# Hydrogeology and Simulation of Groundwater Flow and Land-Surface Subsidence in the Northern Part of the Gulf Coast Aquifer System, Texas, 1891-2009: Usgs Scientific Investigations Report 2012-5154



Filesize: 4.19 MB

## ***Reviews***


*A brand new e book with a new perspective. Better then never, though i am quite late in start reading this one. I found out this ebook from my dad and i advised this publication to find out.  
(Hailee Hahn IV)*

## HYDROGEOLOGY AND SIMULATION OF GROUNDWATER FLOW AND LAND-SURFACE SUBSIDENCE IN THE NORTHERN PART OF THE GULF COAST AQUIFER SYSTEM, TEXAS, 1891-2009: USGS SCIENTIFIC INVESTIGATIONS REPORT 2012-5154




To read **Hydrogeology and Simulation of Groundwater Flow and Land-Surface Subsidence in the Northern Part of the Gulf Coast Aquifer System, Texas, 1891-2009: Usgs Scientific Investigations Report 2012-5154** PDF, make sure you click the button below and save the file or have access to additional information which might be in conjunction with HYDROGEOLOGY AND SIMULATION OF GROUNDWATER FLOW AND LAND-SURFACE SUBSIDENCE IN THE NORTHERN PART OF THE GULF COAST AQUIFER SYSTEM, TEXAS, 1891-2009: USGS SCIENTIFIC INVESTIGATIONS REPORT 2012-5154 book.

Bibliogov, United States, 2013. Paperback. Book Condition: New. 241 x 183 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.In cooperation with the Harris-Galveston Subsidence District, Fort Bend Subsidence District, and Lone Star Groundwater Conservation District, the U.S. Geological Survey developed and calibrated the Houston Area Groundwater Model (HAGM), which simulates groundwater flow and land-surface subsidence in the northern part of the Gulf Coast aquifer system in Texas from predevelopment (before 1891) through 2009. Withdrawal of groundwater since development of the aquifer system has resulted in potentiometric surface (hydraulic head, or head) declines in the Gulf Coast aquifer system and land-surface subsidence (primarily in the Houston area) from depressurization and compaction of clay layers interbedded in the aquifer sediments. The MODFLOW-2000 groundwater flow model described in this report comprises four layers, one for each of the hydrogeologic units of the aquifer system except the Catahoula confining system, the assumed no-flow base of the system. The HAGM is composed of 137 rows and 245 columns of 1-square-mile grid cells with lateral no-flow boundaries at the extent of each hydrogeologic unit to the northwest, at groundwater divides associated with large rivers to the southwest and northeast, and at the downdip limit of freshwater to the southeast. The model was calibrated within the specified criteria by using trial-and-error adjustment of selected model-input data in a series of transient simulations until the model output (potentiometric surfaces, land-surface subsidence, and selected water-budget components) acceptably reproduced field measured (or estimated) aquifer responses including water level and subsidence. The HAGM-simulated subsidence generally compared well to 26 Predictions Relating Effective Stress to Subsidence (PRESS) models in Harris, Galveston, and Fort Bend Counties. Simulated HAGM results indicate that as much as 10 feet (ft) of subsidence has occurred in southeastern Harris County. Measured subsidence and model...

 [Read Hydrogeology and Simulation of Groundwater Flow and Land-Surface Subsidence in the Northern Part of the Gulf Coast Aquifer System, Texas, 1891-2009: Usgs Scientific Investigations Report 2012-5154 Online](#)

 [Download PDF Hydrogeology and Simulation of Groundwater Flow and Land-Surface Subsidence in the Northern Part of the Gulf Coast Aquifer System, Texas, 1891-2009: Usgs Scientific Investigations Report 2012-5154](#)

 [Download ePUB Hydrogeology and Simulation of Groundwater Flow and Land-Surface Subsidence in the Northern Part of the Gulf Coast Aquifer System, Texas, 1891-2009: Usgs Scientific Investigations Report 2012-5154](#)

## You May Also Like

---



**[PDF] Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)**

Access the link beneath to read "Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)" document.

[Save eBook »](#)

---



**[PDF] Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: ( Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)**

Access the link beneath to read "Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: ( Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)" document.

[Save eBook »](#)

---



**[PDF] Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products**

Access the link beneath to read "Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products" document.

[Save eBook »](#)

---



**[PDF] I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book**

Access the link beneath to read "I Am Reading: Nurturing Young Children s Meaning Making and Joyful Engagement with Any Book" document.

[Save eBook »](#)

---



**[PDF] Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Access the link beneath to read "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications ." document.

[Save eBook »](#)

---



**[PDF] Dom's Dragon - Read it Yourself with Ladybird: Level 2**

Access the link beneath to read "Dom's Dragon - Read it Yourself with Ladybird: Level 2" document.

[Save eBook »](#)



**[PDF] Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade**

Access the hyperlink below to download "Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" file.

[Read PDF »](#)



**[PDF] Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2**

Access the hyperlink below to download "Peter Rabbit: the Angry Owl - Read it Yourself with Ladybird: Level 2" file.

[Read PDF »](#)



**[PDF] Sleeping Beauty - Read it Yourself with Ladybird: Level 2**

Access the hyperlink below to download "Sleeping Beauty - Read it Yourself with Ladybird: Level 2" file.

[Read PDF »](#)



**[PDF] Chicken Licken - Read it Yourself with Ladybird: Level 2**

Access the hyperlink below to download "Chicken Licken - Read it Yourself with Ladybird: Level 2" file.

[Read PDF »](#)



**[PDF] Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers**

Access the hyperlink below to download "Kindergarten Culture in the Family and Kindergarten; A Complete Sketch of Froebel s System of Early Education, Adapted to American Institutions. for the Use of Mothers and Teachers" file.

[Read PDF »](#)



**[PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: The Backpack (Hardback)**

Access the hyperlink below to download "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 3: The Backpack (Hardback)" file.

[Read PDF »](#)