Texas GAM and GCD Experience

GMA 8 Joint Planning Committee

Project Manager
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Technical Advisors
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[1] - INTERA staff
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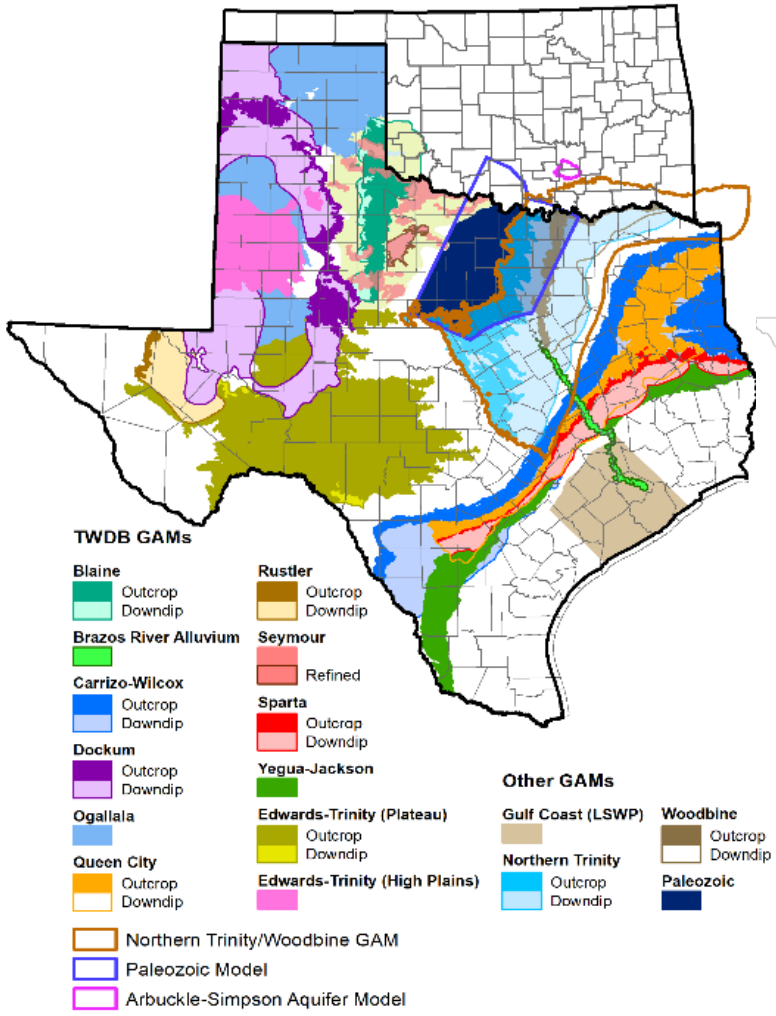
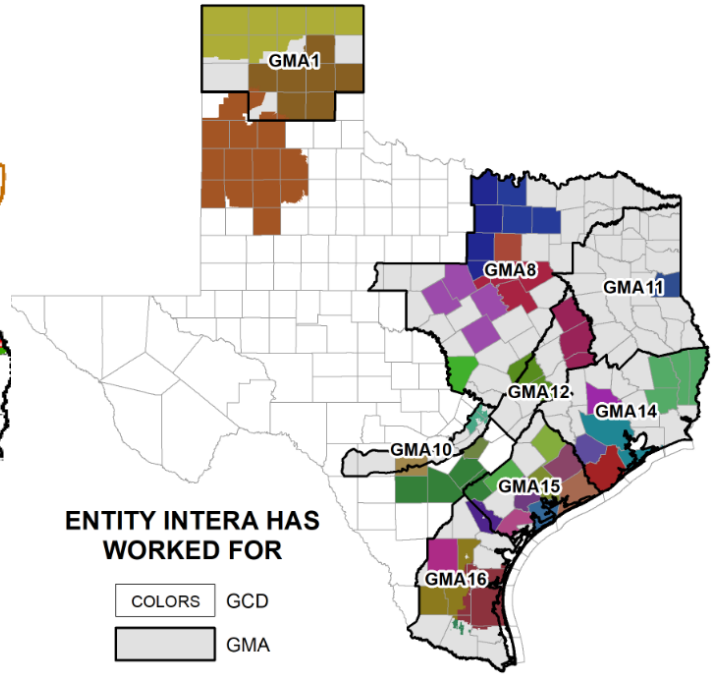
Technical Leads

Conceptual Model
Michael Keester, PG[2]

Numerical Model
Neil Deeds, PhD, PE, PG[1]

Technical Support Resources
Ryan Harmon, PhD[1] Andrew Osborne[1] Jeremy White, PhD[1]





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Workflow

Task A
Migrate NTWGAM to MODFLOW 6

- A.1 Migrate original packages
- A.2 Validate conversion by running base calibration and current MAG run
- A.3 Report to GMA 8

Task B
Update Model Data

- B.1 Collect new data from GMA 8 GCDs and discuss model issues
- B.2 Collect new data from TWDB and discuss model issues
- B.3 Update structure/ faults/layering
- B.4 Update transient stresses (recharge, pumping, stream routing, ET)
- B.5 Update model properties
- B.6 Update head and flow calibration targets (2012 - 2020)
- B.7 Report to GMA 8
- B.8 Documentation

Task C
Re-calibrate NTWGAM

- C.1 Re-calibrate model
- C.2 Regularly scheduled updates to GMA 8
- C.3 Regularly scheduled updates to TWDB
- C.4 Documentation

Task D
GMA 8 Predictive Simulations

- D.1 Run 1 - MAG that achieves DFC
- D.2 Run 2 - DFC that achieves MAG
- D.3 Run 3 - Sustainable production (meet with GMA 8 to define sustainable)
- D.4 Documentation

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