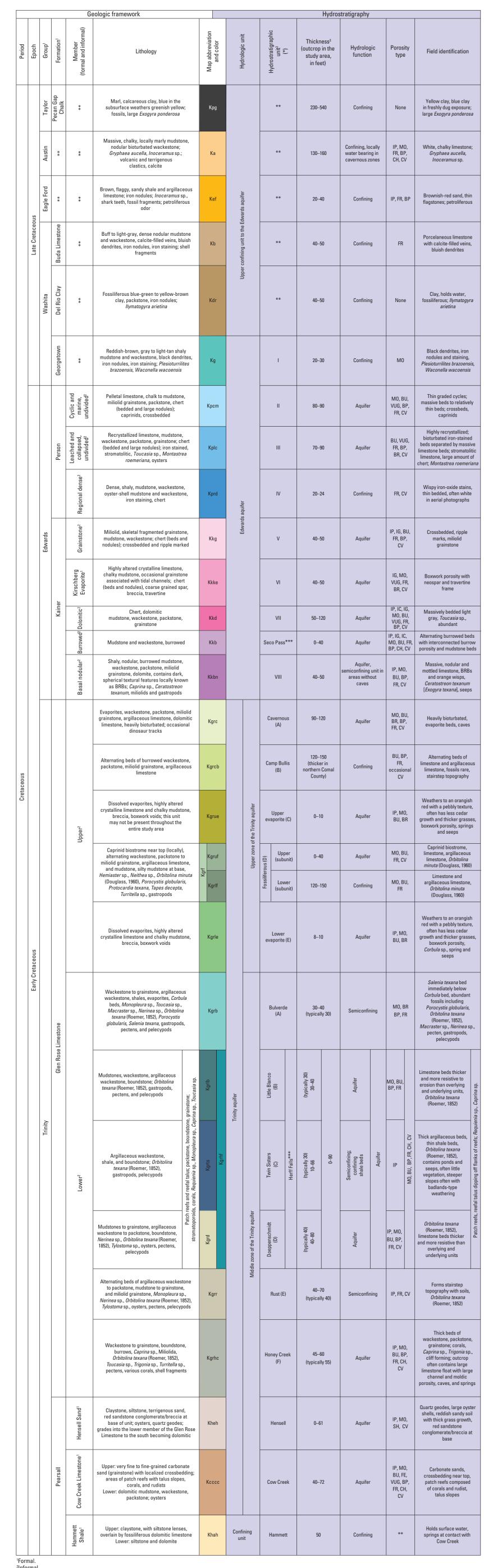


U.S. Department of the Interior U.S. Geological Survey



*Previously published identification for the hydrostratigraphic unit (Clark, 2003, 2004; Blome and Clark, 2014), except where otherwise noted.

***Informal hydrostratigraphic unit name that has not been published previously.

Figure 3. Summary of the geologic framework and hydrostratigraphy of the Edwards and Trinity aquifers within Bexar and Comal Counties, Texas. Period, Epoch, group, formation, members, and lithology modified from Imlay (1945), Whitney (1952), Lozo and Stricklin (1956), Stricklin and others (1971), Rose (1972), Stricklin and Smith (1973), Amsbury (1974), Inden (1974), Perkins (1974), Clark and others (2009), Wierman and others (2010), Clark and others (2013, 2014), Blome and Clark (2014), U.S. Geological Survey (2022b); Orbitolina minuta (Douglass, 1960), Orbitolina texana (Roemer, 1852), Loucks and Kerans (2003); aquifers from Maclay and Small (1976), Ashworth (1983); burrowed hydrostratigraphic unit from Rose (1972); thickness from outcrop, Clark and others (2009), Wierman and others (2010), Clark and others (2014); hydrogeologic function modified from outcrop, Clark and others (2009), Wierman and others (2010), Clark and others (2013, 2014), Clark and Morris (2015). Porosity types modified from Choquette and Pray (1970): Fabric selective: IP, interparticle porosity; IG, intergranular porosity; IC, intercrystalline porosity; SH, shelter porosity; MO, moldic porosity; BU, burrow porosity; FE, fenestral porosity; BP, bedding plane porosity. Non-fabric selective: FR, fracture porosity; CH, channel porosity; BR, breccia porosity; VUG, vug porosity; CV, cave porosity. BRBs, black

Evaporitic mudstone

Calcareous mudstone Calcareous mudstone to

wackestone sequences Nodular marly wackestone

packstone sequences

Unconformity

the ichnofabric index see Golab and others (2017).

Rhizoliths

Figure 4. A, Core analysis from MW9–CC, northern Bexar County, Texas (fig. 1). Section includes the lower evaporite, Bulverde, Little

Blanco, Twin Sisters, Doeppenschmidt, Rust, Honey Creek, and Hensell hydrostratigraphic units (HSUs) (fig. 3). For a more detailed description of core MW9–CC see Blome and Clark (2014). B, Stratigraphic column including ichnofabric index from site 1 located in northern Bexar County, Texas (site 1 location shown in fig. 1), of a geologic section that includes HSU VIII of the Edwards aquifer and the cavernous HSU of the upper zone of the Trinity aquifer (fig. 3). For a more detailed description of the stratigraphic column including

Nodular limestone

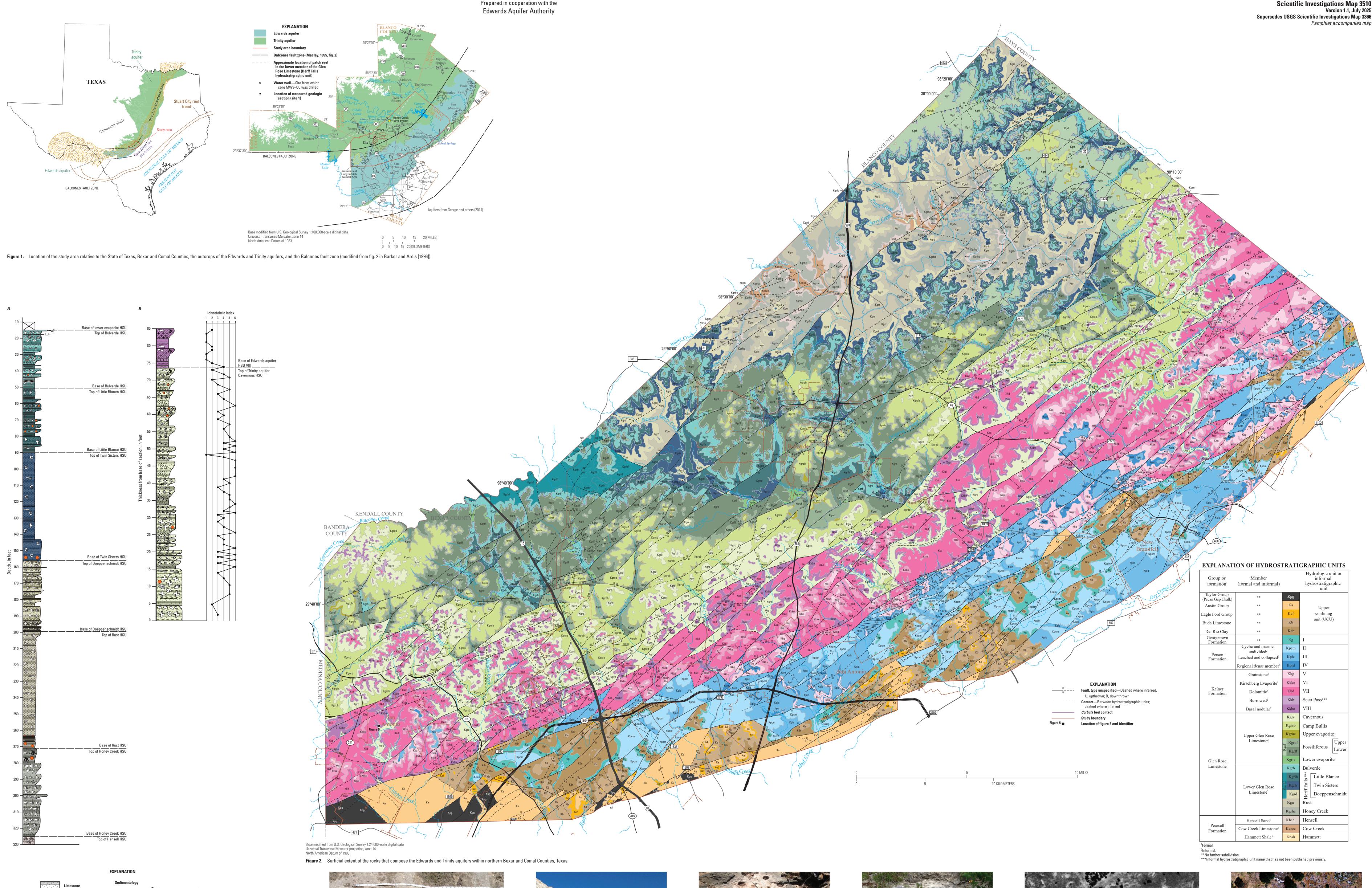


Figure 5. Footprint of *Acrocanthosaurus* (theropod) at Government Canyon State Natural

Area, Bexar County, Texas. The footprint is approximately 15 feet below the contact of

the basal nodular member of the Kainer Formation and the upper member of the Glen

Rose Limestone (fig. 3) (photograph taken at lat 29°34'57" N. and long 98°45'56" W. by

Allan K. Clark, U.S. Geological Survey, September 16, 2015).

Figure 6. Footwall of normal fault in the outcrop of the Edwards Group in northern Bexar County, Texas (photograph taken at

lat 29°36'26" N. and long 98°34'57" W. by Allan K. Clark, U.S.

Geological Survey, February 7, 2014).

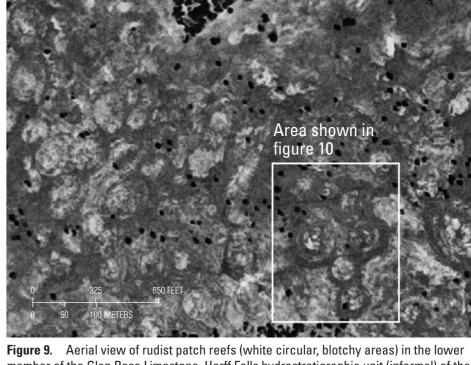


(photograph taken at lat 29°46'14" N. and long 98°16'12" W. by

Allan K. Clark, U.S. Geological Survey, August 5, 2014).



by Allan K. Clark, U.S. Geological Survey, June 13, 2014).



member of the Glen Rose Limestone, Herff Falls hydrostratigraphic unit (informal) of the middle zone of the Trinity aquifer (located at lat 30°02'13" N. and long 98°18'36" W. [center of outlined area in photograph]; photograph by U.S. Air Force, May 4, 1958, courtesy of U.S. Geological Survey). The outlined area is shown in figure 10.

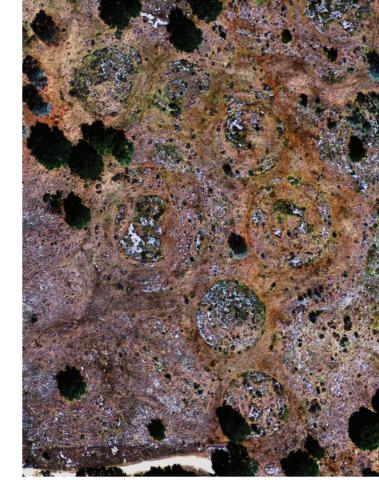


Figure 10. Very high resolution aerial view of the outlined area shown in figure 9, rudist patch reefs (circular areas) in the lower member of the Glen Rose Limestone, Herff Falls hydrostratigraphic unit (informal) of the middle zone of the Trinity aquifer (located at lat 30°02'13" N. and long 98°18'36" W. [center of photograph]; photograph from Strategic Mapping Program [StratMap], Texas Natural Resources Information System, Texas Water Development Board, 2010, available under CC0 1.0 Universal [CC0 1.0] Public Domain Dedication).

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within northern Bexar and Comal Counties, Texas, at 1:24,000 scale: U.S. Geological Survey data release,

Investigations Map 3366.]