Explanation

- Qh, Holocene; includes loess, alluvial, deltaic, beach, backswamp, and Mississippi River meander belt deposits.
- Qp, Pleistocene; includes loess, terrace, Praire Complex, Intermediate Complex, Upland Complex (Lafayette and Citronelle gravels), and Deweyville Terrace deposits.
- Tpc, Pliocene; Upland Complex (Lafayette and Citronelle gravels).
- Tm, Miocene; includes Catahoula, Pascagoula, Hattiesburg, and Flemming Formations.
- To, Oligocene; includes Forest Hill formation and Vicksburg Group (Bucatunna, Byram Marl, Glendon Limestone, and Mint Springs formations).
- Te3, Eocene; Jackson Group (Yazoo Clay and Moody's Branch formations).
- Te2, Eocene; Claiborne Group (undifferentiated).
- Te1, Eocene; Wilcox Group.
- Tx, Paleocene; Midway Group (Porters Creek Clay and Clayton formation).
- Uk4, Upper Cretaceous; Navarro Group, Arkadelphia Marl, and Nacatoch Sand.
- Uk3, Upper Cretaceous; Taylor Group, and Selma Group
- Uk2, Upper Cretaceous; Austin and Eagle Ford Groups, Tuscaloosa Formation, and Eutaw Formation.
- Uk1, Upper Cretaceous; undifferentiated.
- Ki, Cretaceous; intrusive rocks.
- PP1a, Pennsylvanian; undifferentiated.
- M, Mississippian; undifferentiated.
- DS, Devonian and Silurian; undifferentiated.

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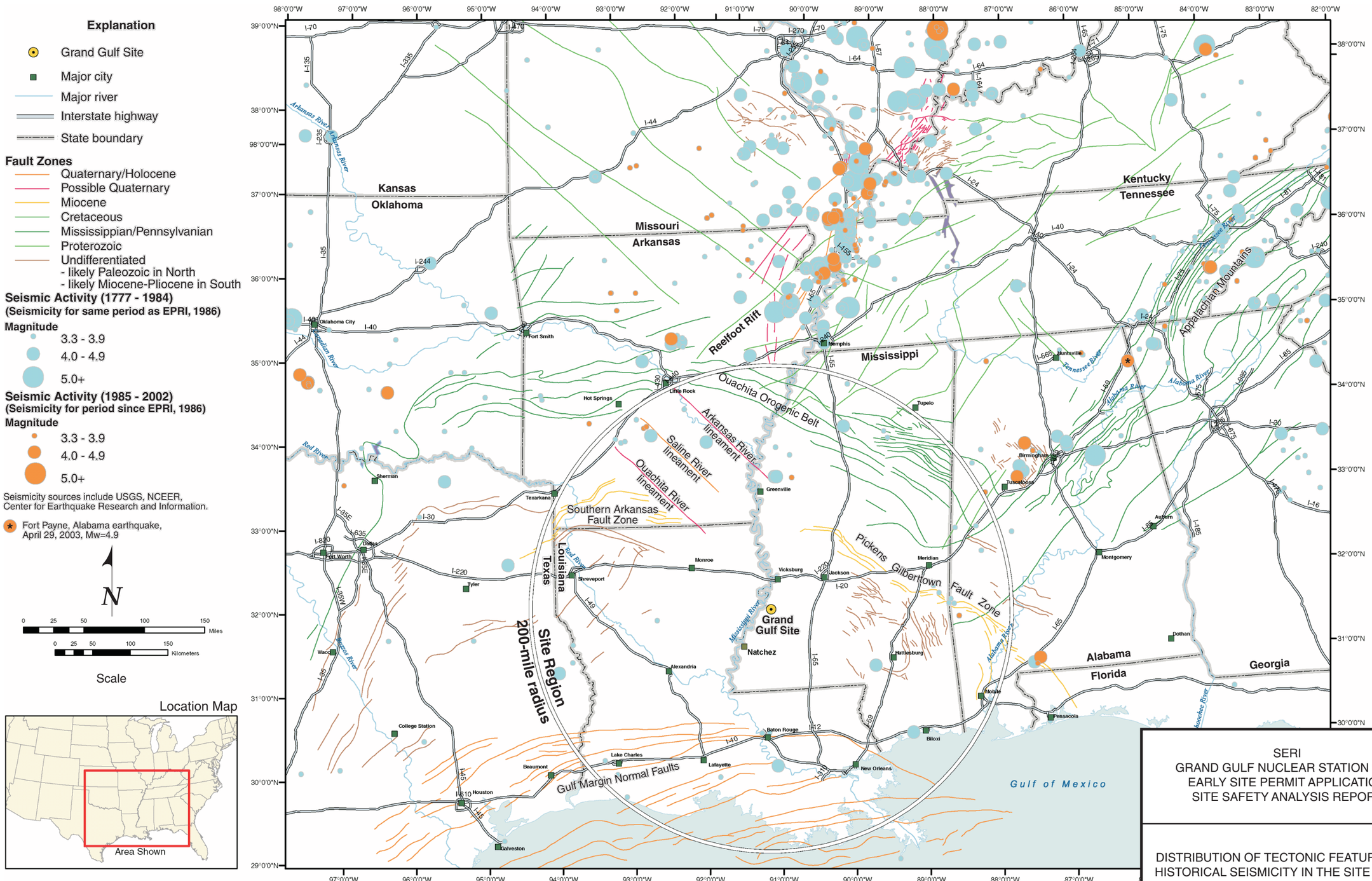
GEOLOGIC MAP UNIT DESCRIPTIONS
FOR GEOLOGIC MAP OF SITE REGION

FIGURE 2.5-4b REV. 0



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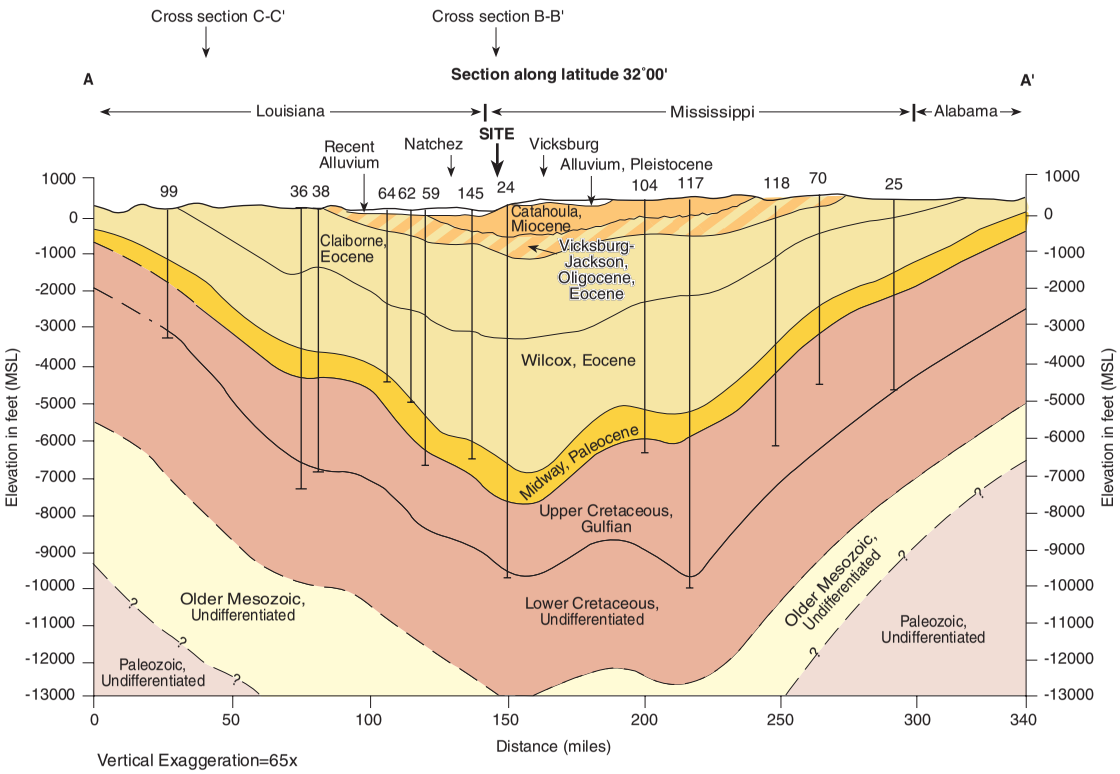
DISTRIBUTION OF TECTONIC FEATURES AND HISTORICAL SEISMICITY IN THE SITE REGION

FIGURE 2.5-5 REV. 0



Location Map

Explanation

Geology

- Recent Alluvium
- M — Miocene
- 0/E — Oligocene/Eocene
- E — Eocene
- P — Paleocene
- K — Cretaceous
- J — Older Mesozoic
- ? — Paleozoic undifferentiated

Symbols

- 99 ⊥ Previous boring
- Geologic contact
- Inferred geologic contact
- -?- Queried geologic contact
- Unconformity

References: Fisk, H.N., 1944, Geological investigations of the lower Mississippi River, Mississippi River Commission, Vicksburg Mississippi.

From Figure 2.5-19 of Ref. 16.

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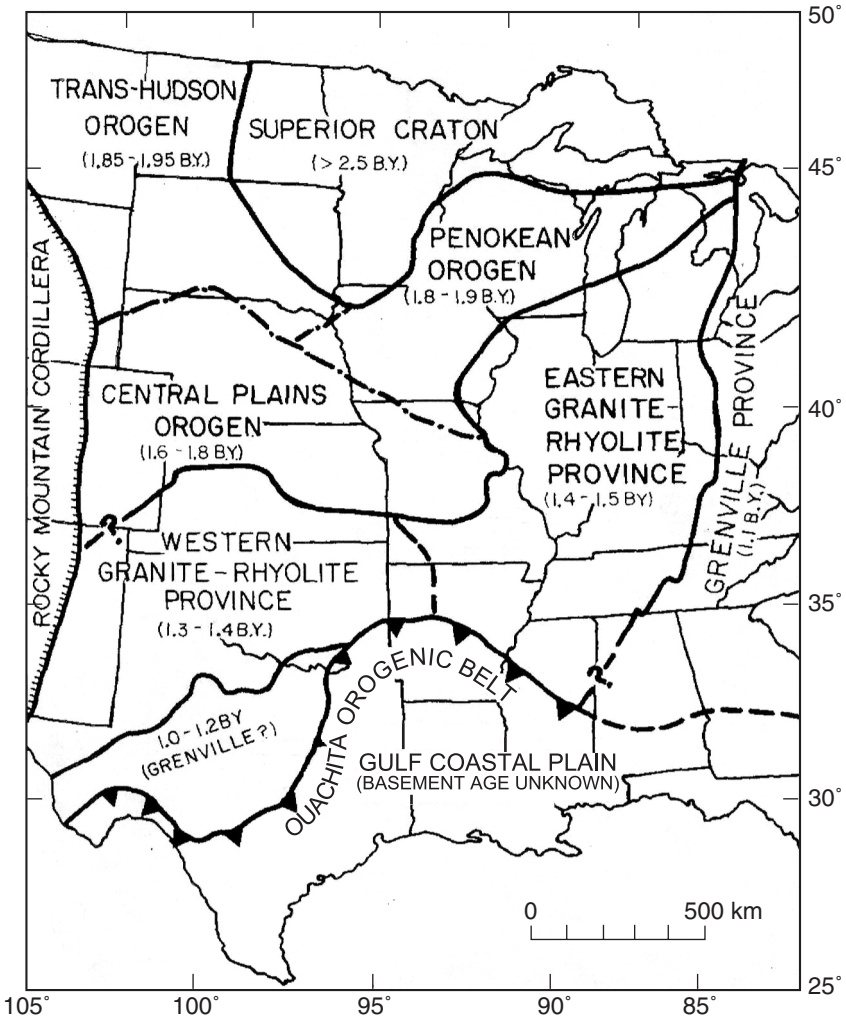
GEOLOGIC SECTION A-A' OF SITE REGION

FIGURE 2.5-6 REV. 0



Age subdivisions of crust in the central U.S. The ages apply to the crystalline basement that is covered by Paleozoic strata over most of the region north of the Ouachita Orogenic Belt and are derived mainly from U-Pb dates on zircon from drill hole samples.

Modified from Johnston and Nava, 1990.

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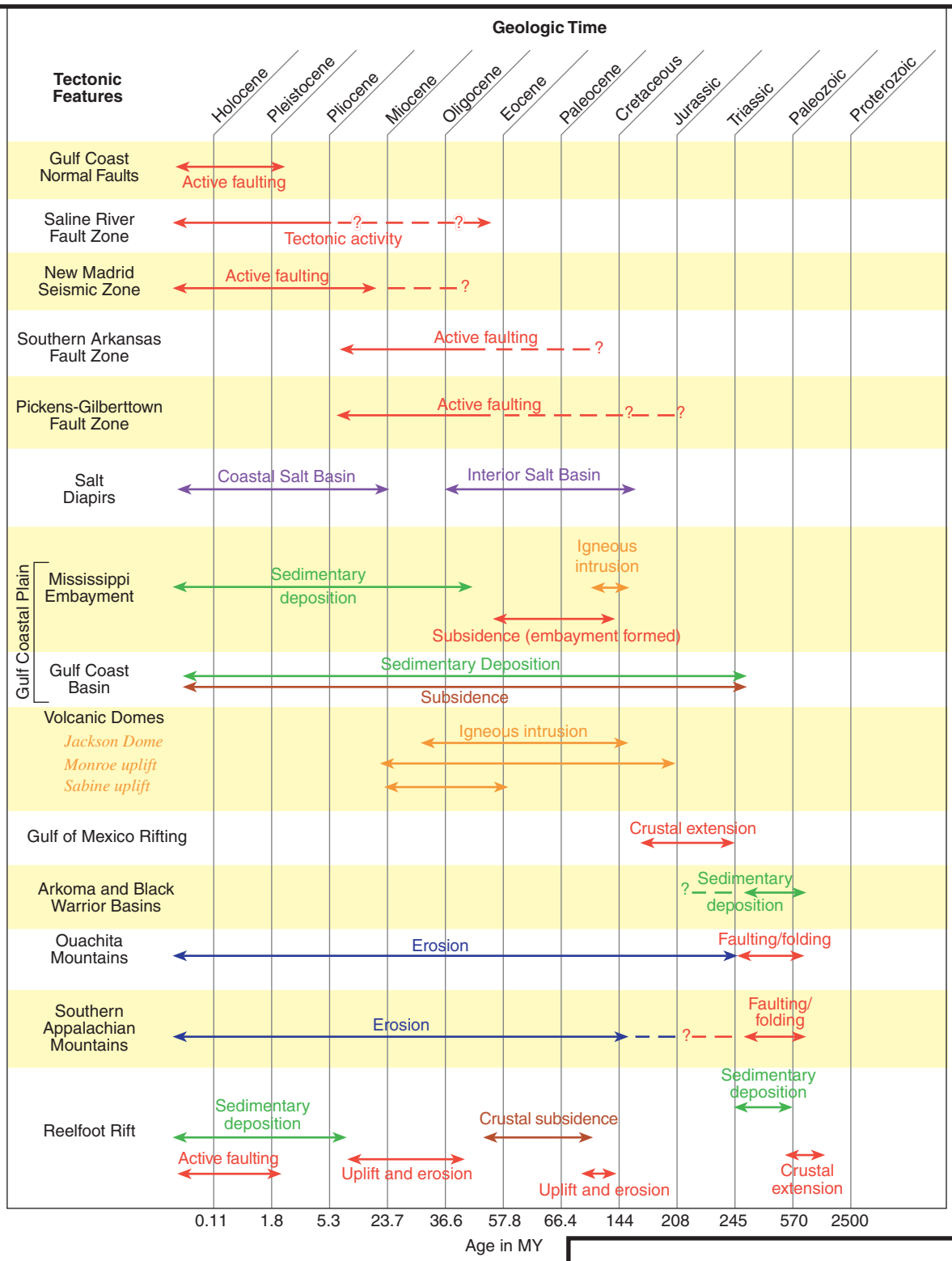
MAJOR CRATONIC FEATURES OF
CENTRAL UNITED STATES

FIGURE 2.5-7 REV. 0



Explanation

- Sedimentary deposition
- Tectonic activity
- Erosion
- Salt migration
- Igneous intrusion
- Crustal subsidence

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GENERALIZED SEQUENCE OF MAJOR GEOLOGIC EVENTS IN REGION

FIGURE 2.5-8 REV. 0