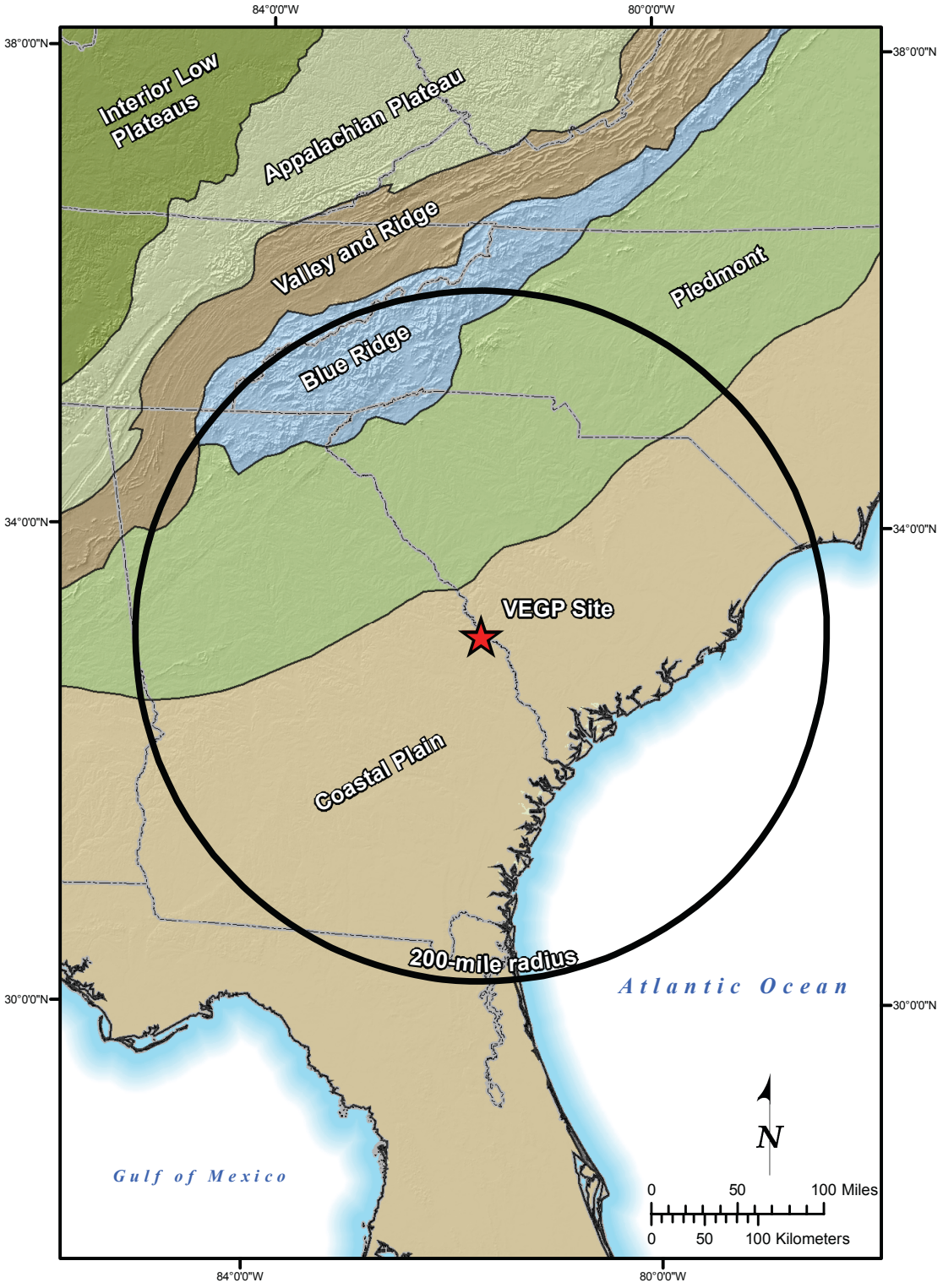

Figure 2.5.1-1 Physiographic Provinces of the Southeastern United States

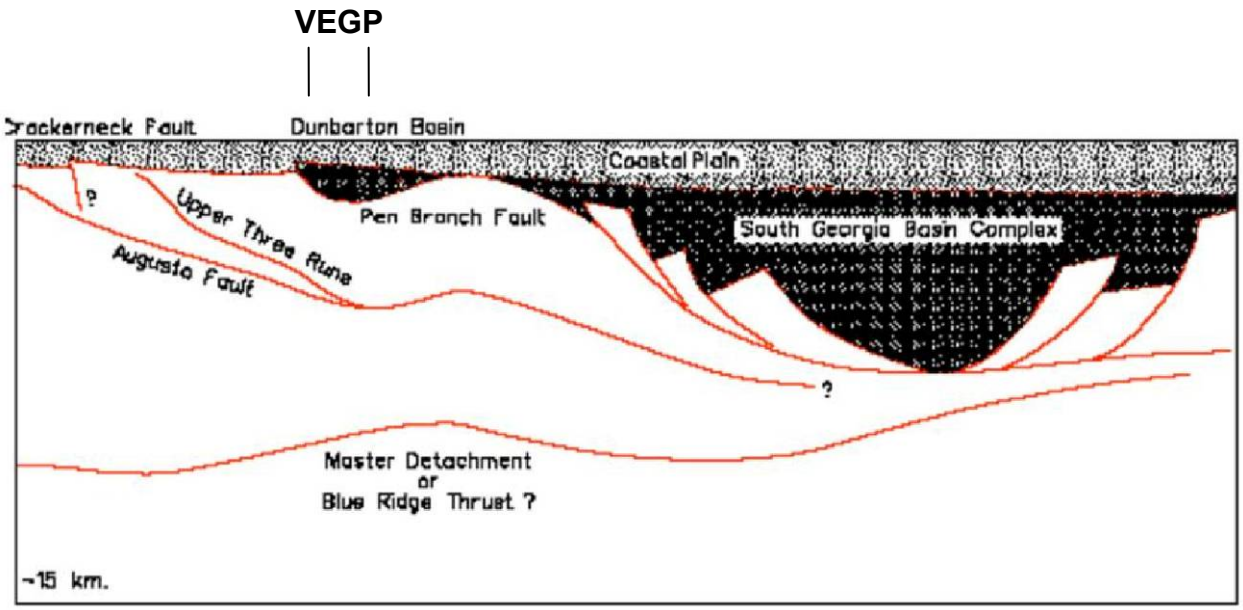

Figure 2.5.1-2 Conceptual Section Linking Dunbarton Basin with South Georgia Basin Complex

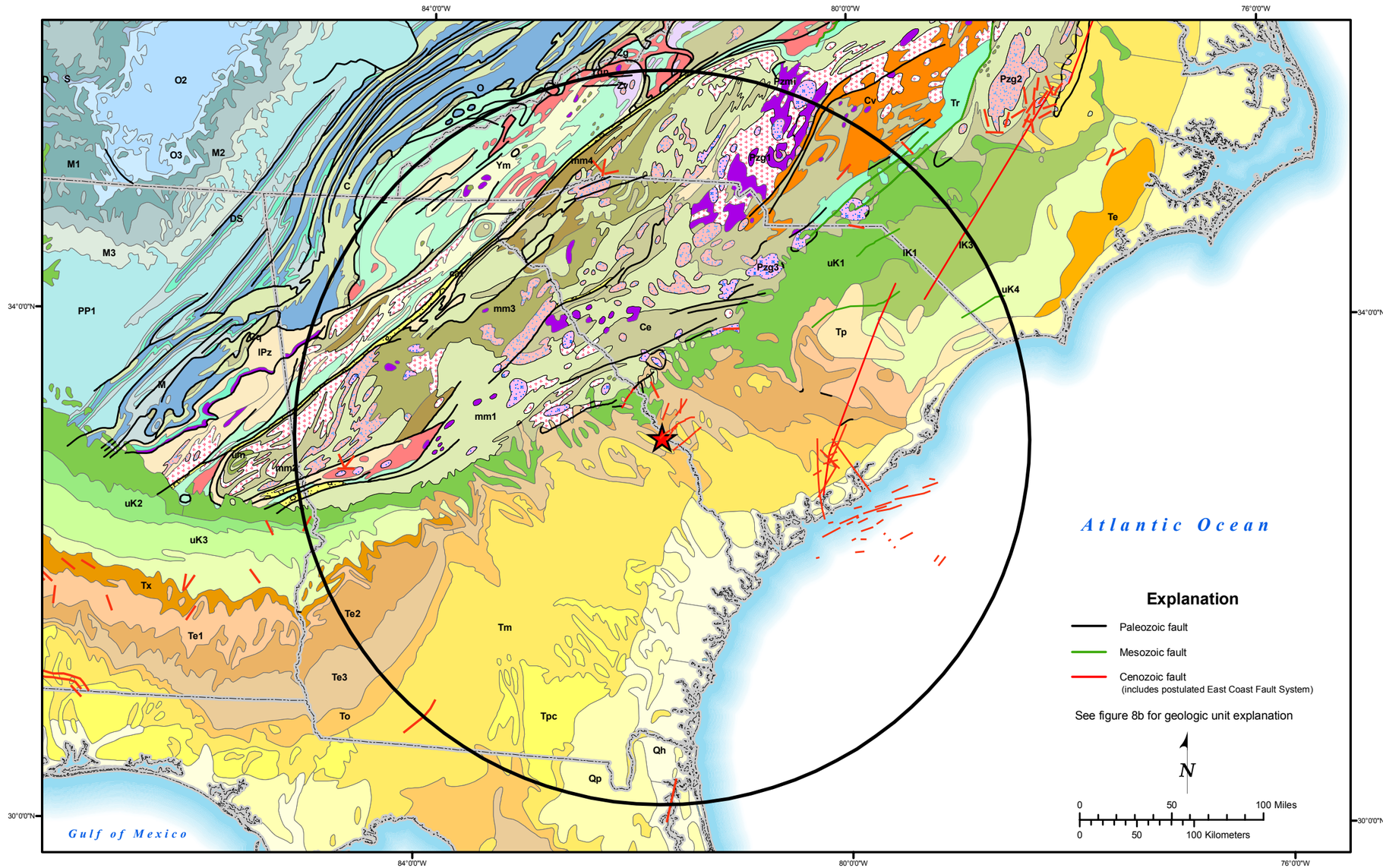

Figure 2.5.1-3 Regional Geologic Map (200-Mile Radius)z

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Explanation

Vogtle 200-mile geology
King and Beikman (1974) unit descriptions

Qh	Holocene
Qp	Pleistocene
Tp	Pliocene
Tpc	Pliocene continental
Tm	Miocene
To	Oligocene
Te	Eocene
Te1	Eocene Wilcox Group
Te2	Eocene Claiborne Group
Te3	Eocene Jackson Group
Tx	Paleocene
uK1	Woodbine and Tuscaloosa groups
uK2	Austin and Eagle Ford Groups
uK3	Taylor Group
uK4	Navarro Group
lK1	Trinity group
lK3	Washita Group
Tr	Triassic
PP1	Atokan and Morrowan Series
M	Mississippian
M1	Osagean and Kinderhookian Series
M2	Meramecian Series
M3	Chesterian Series
D	Devonian
DS	Devonian and Silurian
S	Silurian
O	Ordovician
O2	Middle Ordovician (Mohawkian)
O3	Upper Ordovician (Cincinnatian)
C	Cambrian
Ce	Cambrian eugeosynclinal
Cq	basal Lower Cambrian clastic rocks
Cv	Cambrian volcanics
lPz	Lower Paleozoic
Pzmi	Paleozoic mafic intrusives
Pzg3	Upper Paleozoic granitic rocks
Pzg2	Middle Paleozoic granitic rocks
Pzg1	Lower Paleozoic granitic rocks
Ygn	Orthogneiss
Ym	Paragneiss and schist
Z	sedimentary rocks
Zg	granitic rocks
Zv	volcanic rocks
cat	Catacalastic rocks
mm1	felsic paragneiss and schist
mm2	mafic paragneiss
mm3	migmatite
mm4	felsic orthogneiss
um	Ultramafic rocks

Figure 2.5.1-4 Regional Geologic Map (200-Mile Radius) Explanation

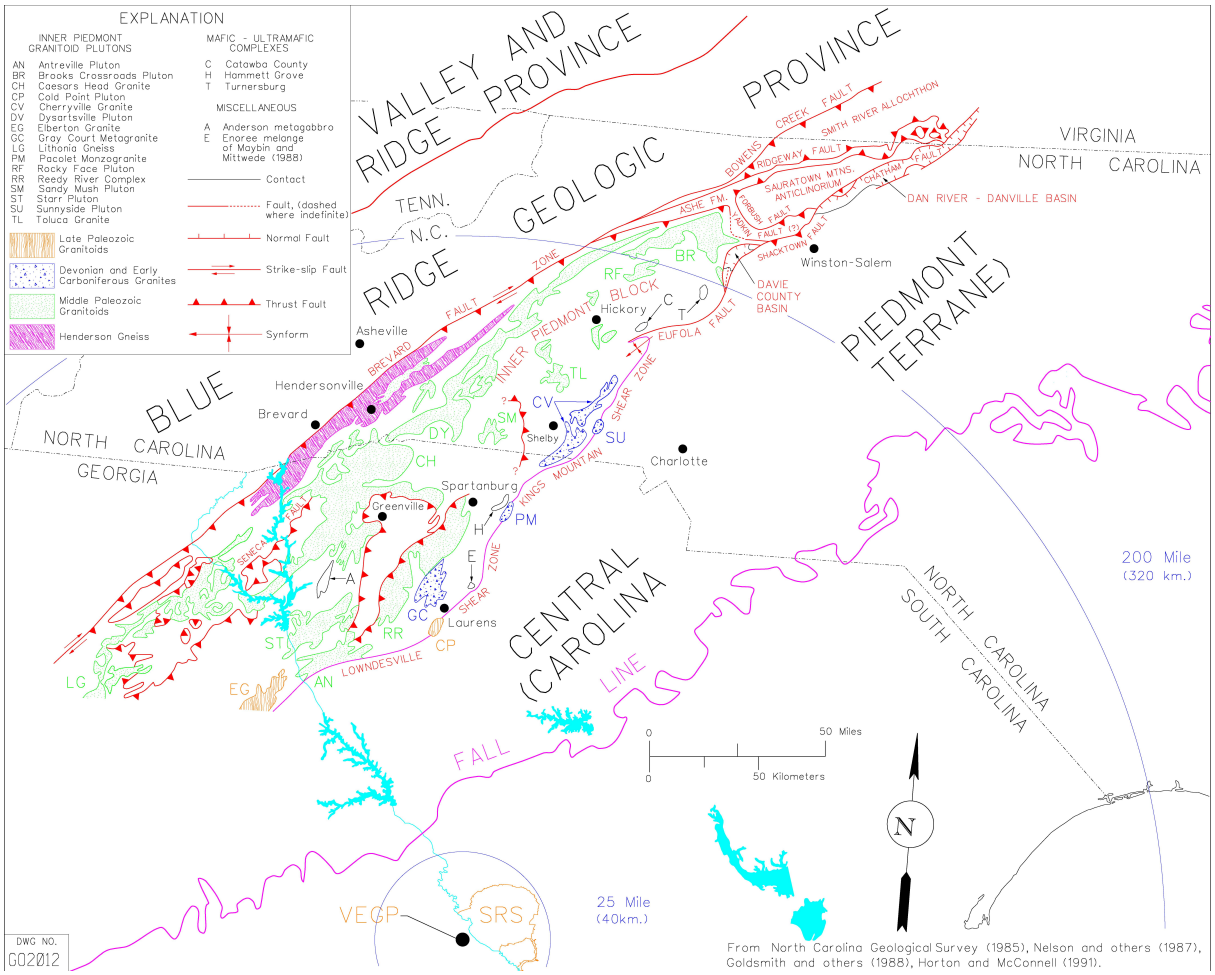

Figure 2.5.1-5 Simplified Geologic Map of Western Piedmont Terrane in Relation to Blue Ridge and Carolina Terranes

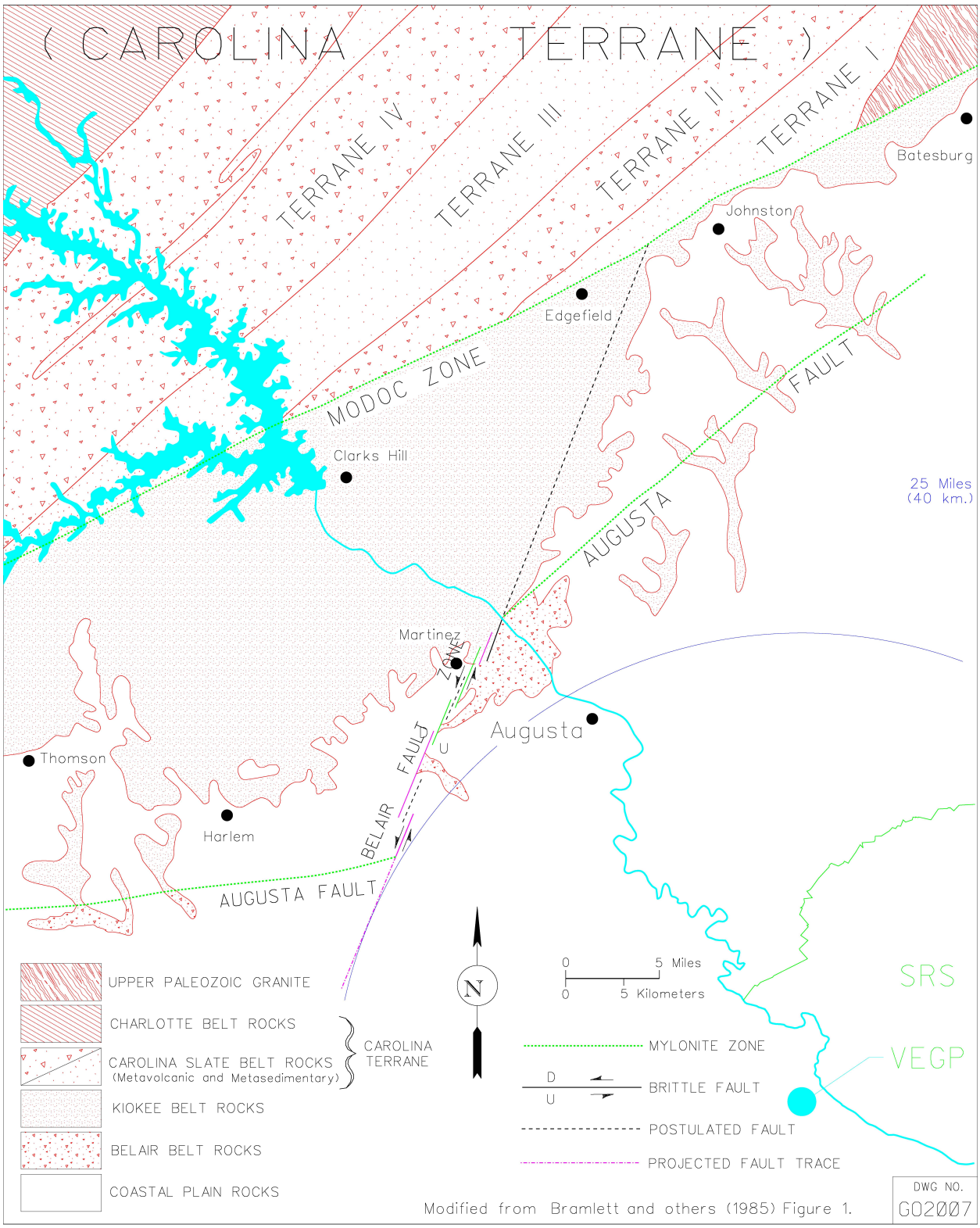

Figure 2.5.1-6 Map of Carolina Terrane and Modoc Zone

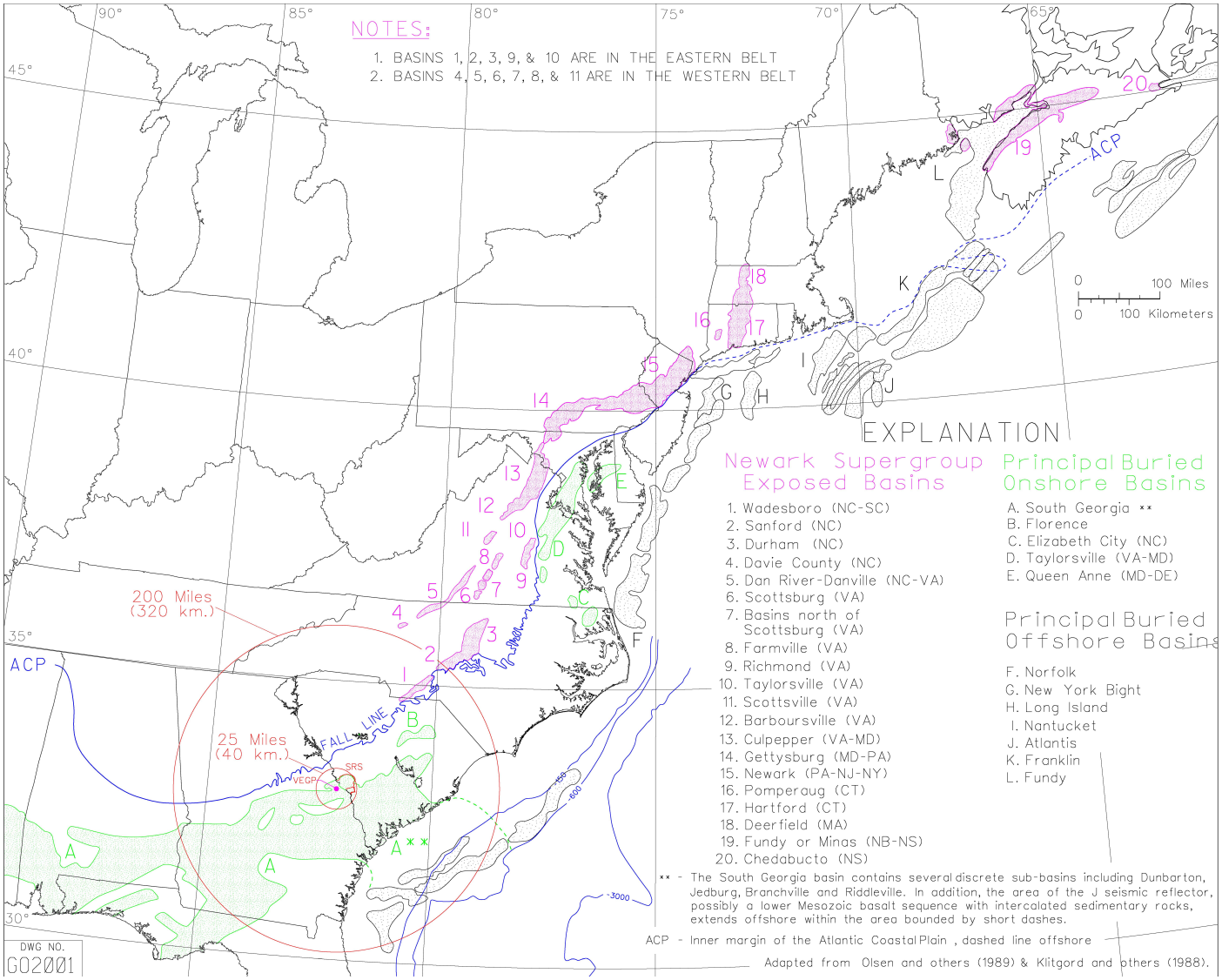

Figure 2.5.1-7 Triassic Basins in the Eastern United States

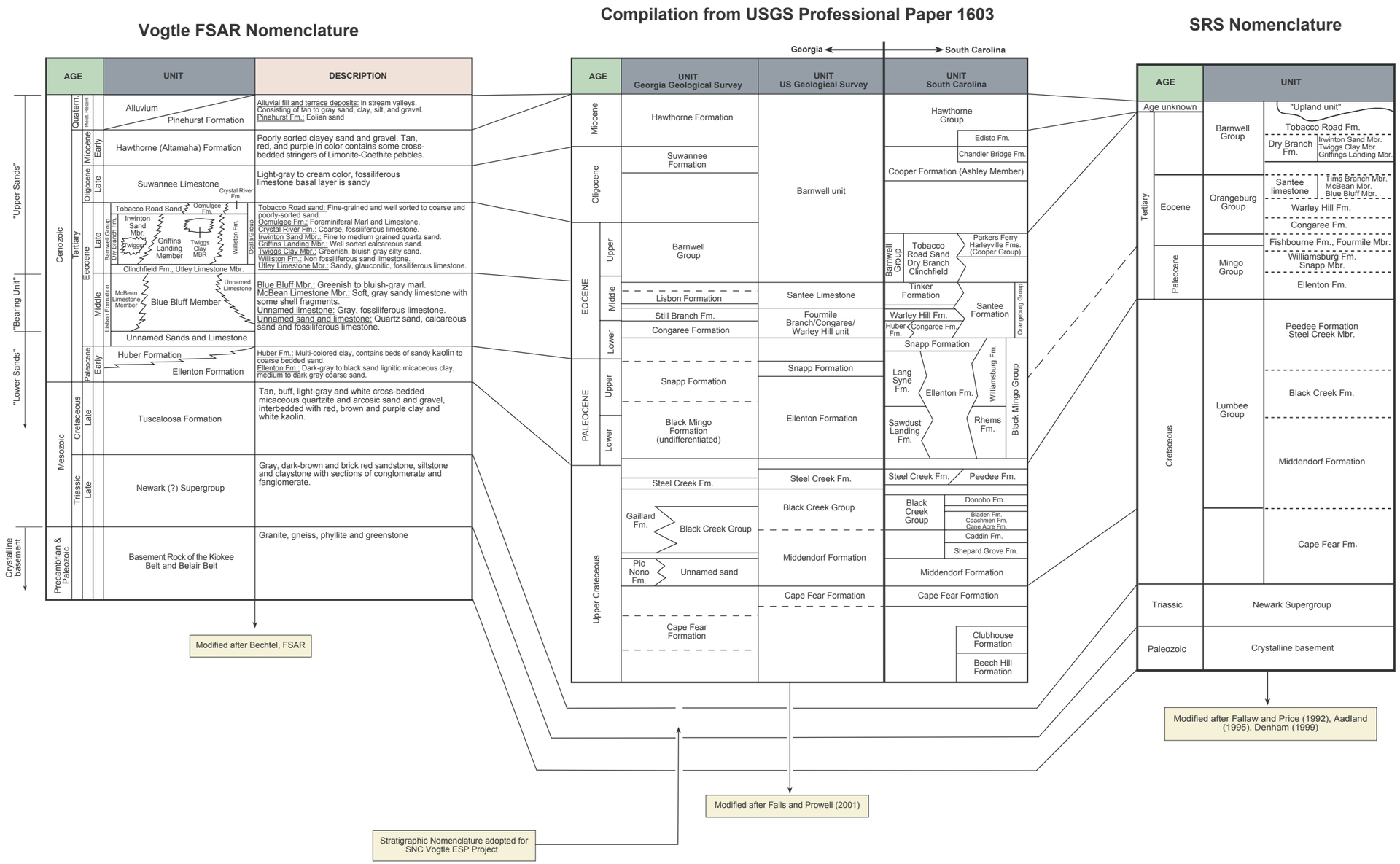

Figure 2.5.1-8 Stratigraphic Correlation Chart

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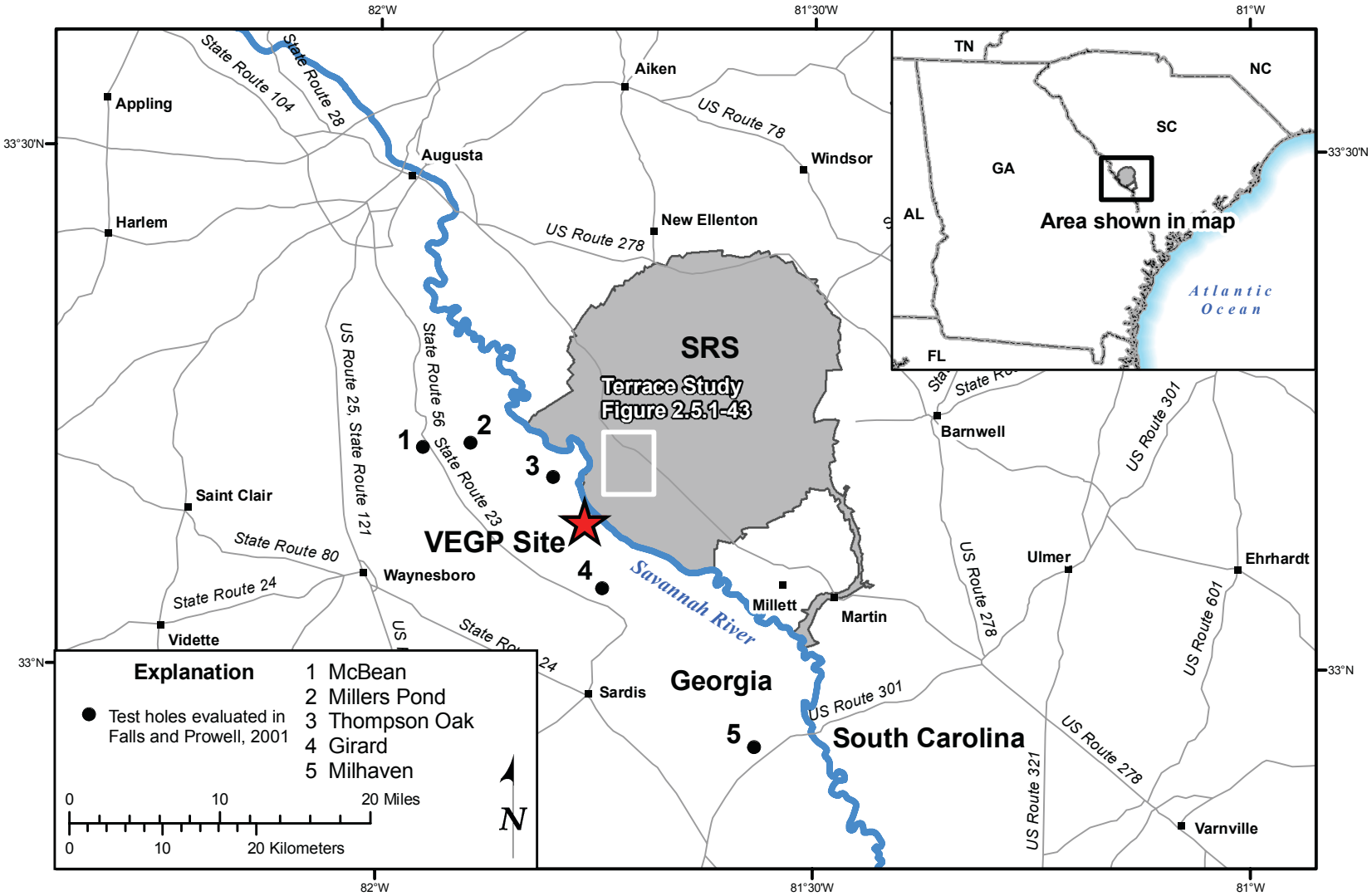


Figure 2.5.1-9 Location Map Showing SRS Boundary and VEGP Site

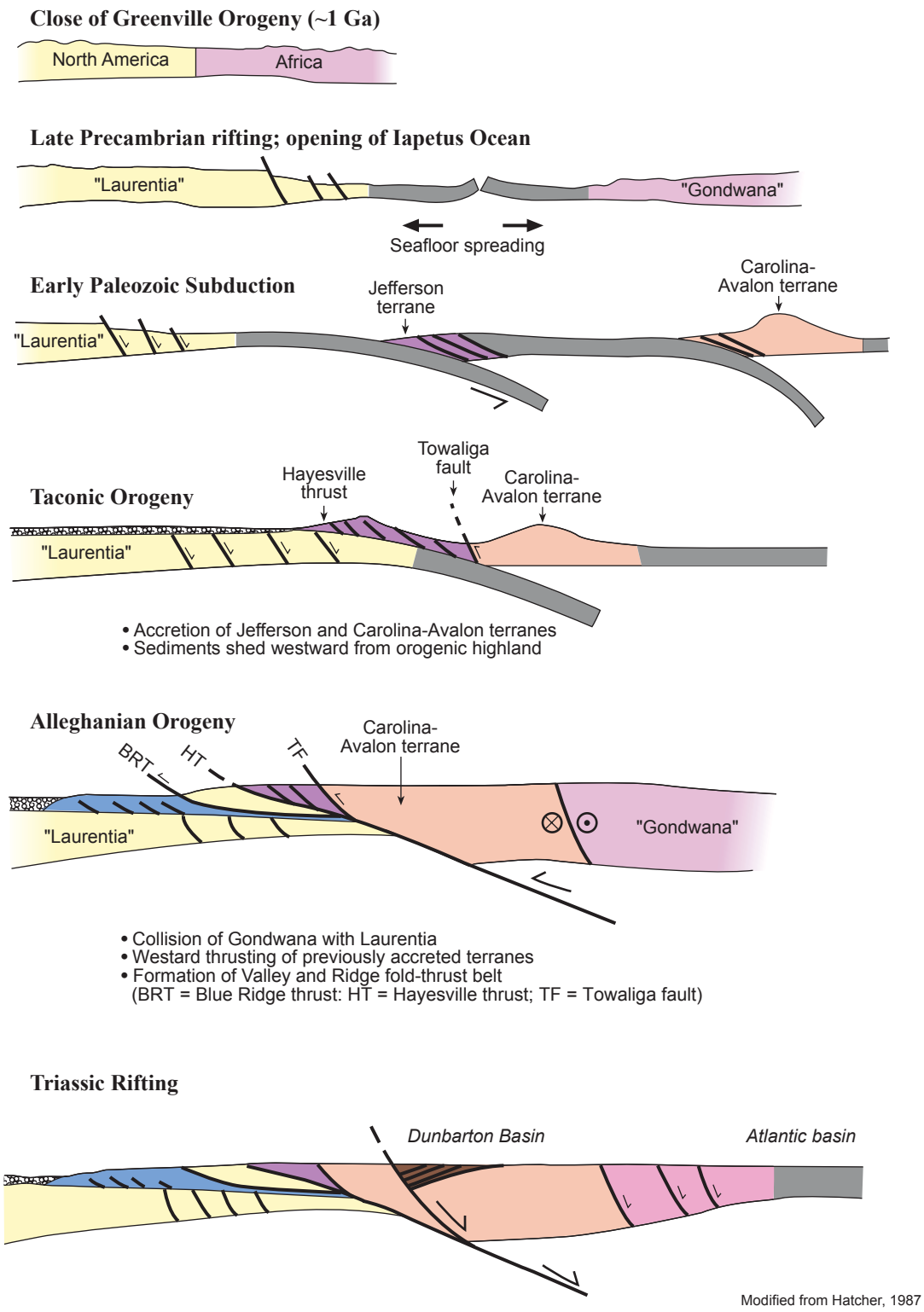
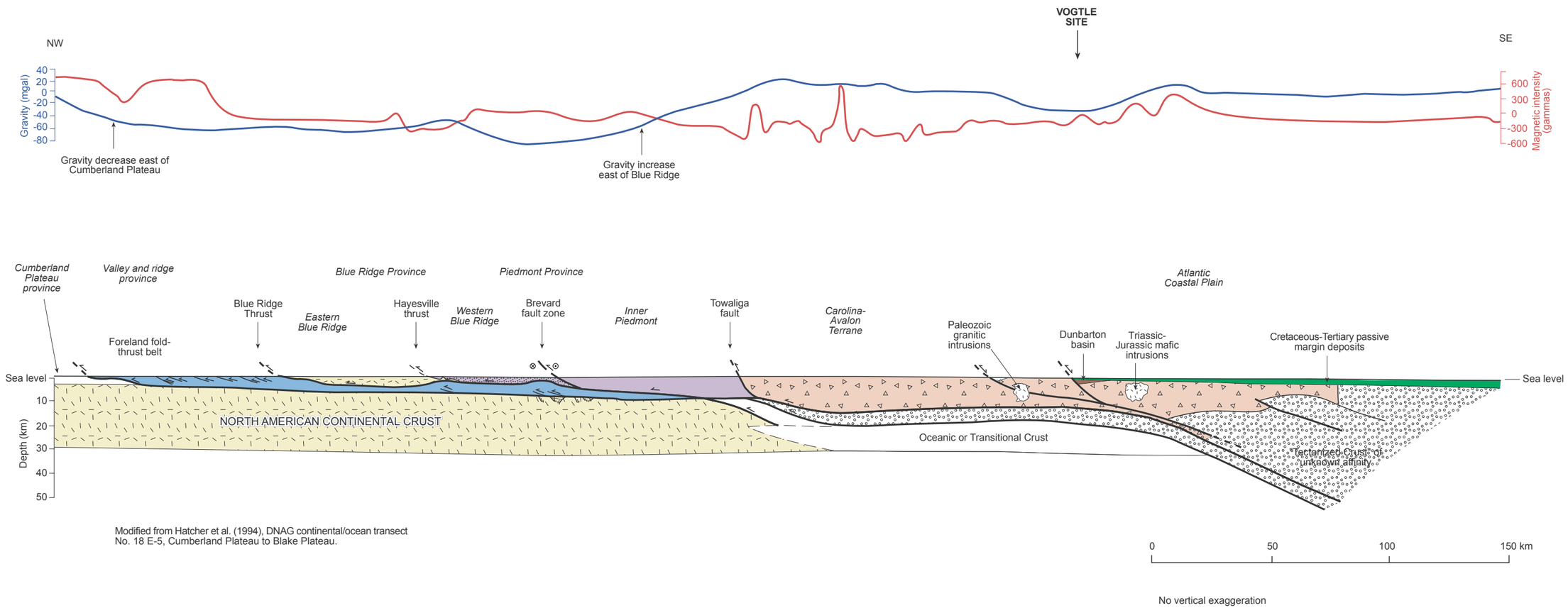


Figure 2.5.1-10 Evolution of the Appalachian Orogen



Modified from Hatcher et al. (1994), DNAG continental/ocean transect No. 18 E-5, Cumberland Plateau to Blake Plateau.

Figure 2.5.1-11 Regional Cross Section – DNAG E-5

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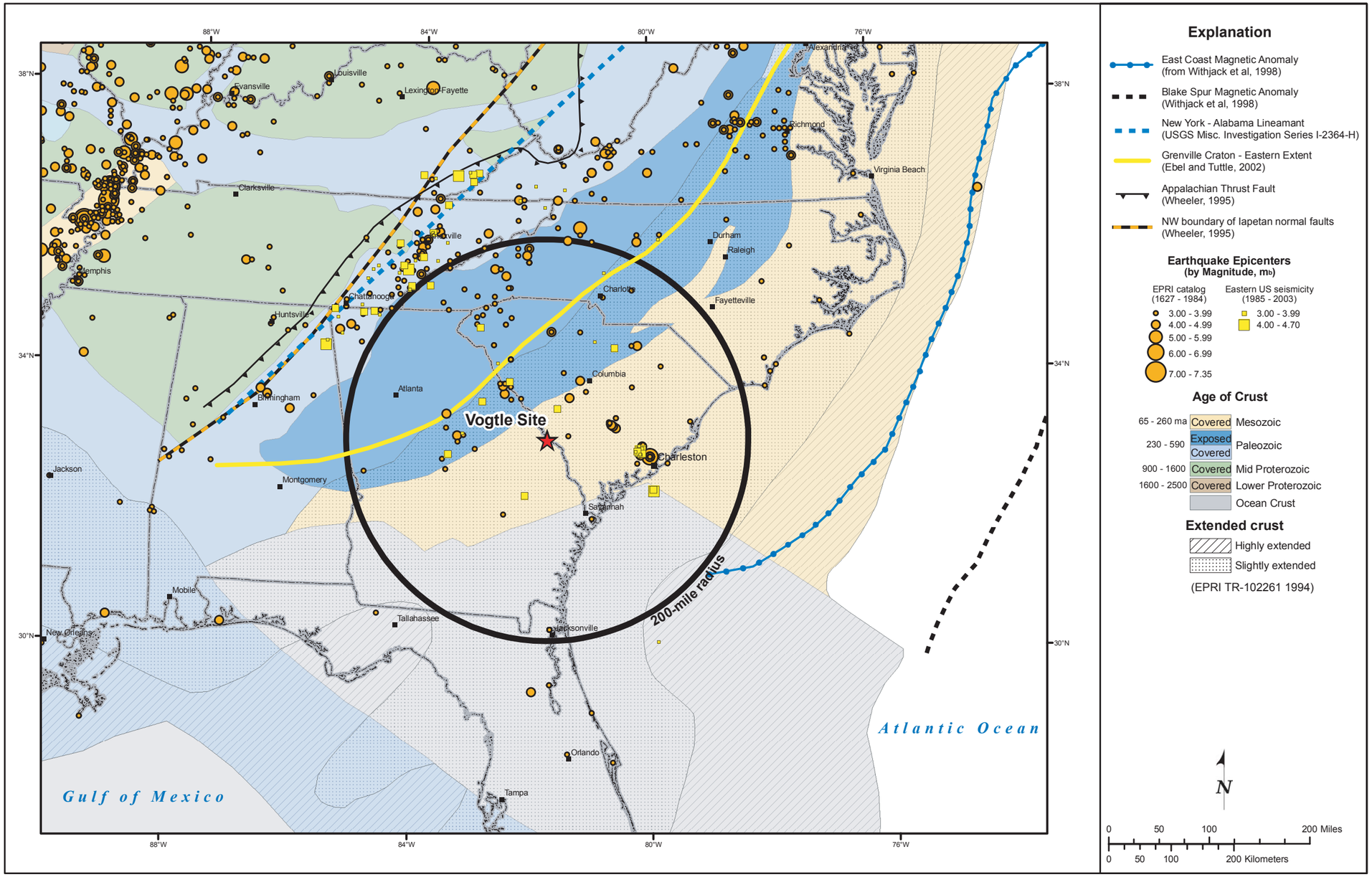

Figure 2.5.1-12 Tectonic Features of the Southeastern United States

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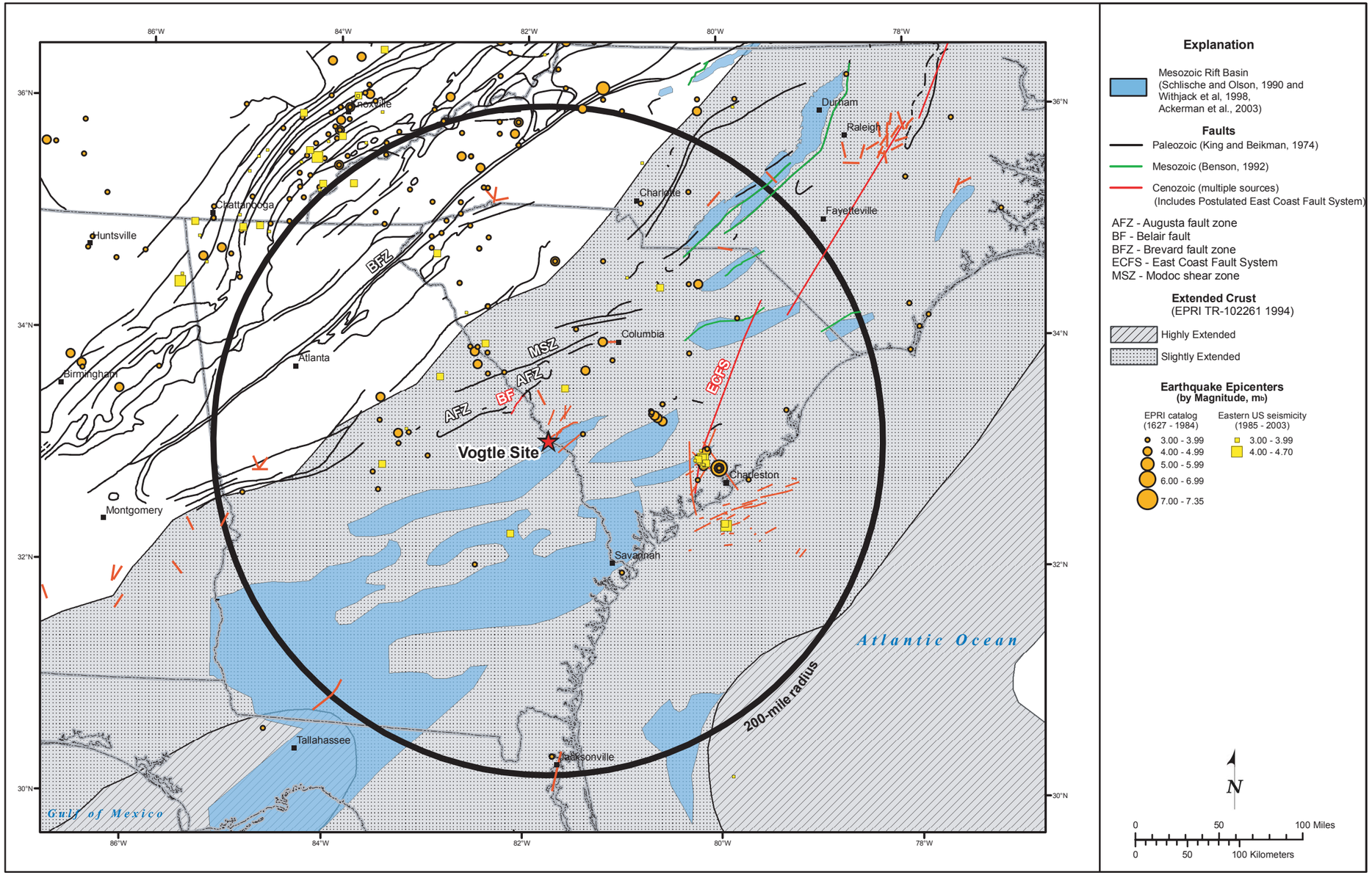

Figure 2.5.1-13 Regional Tectonic Features Map (200-Mile Radius)

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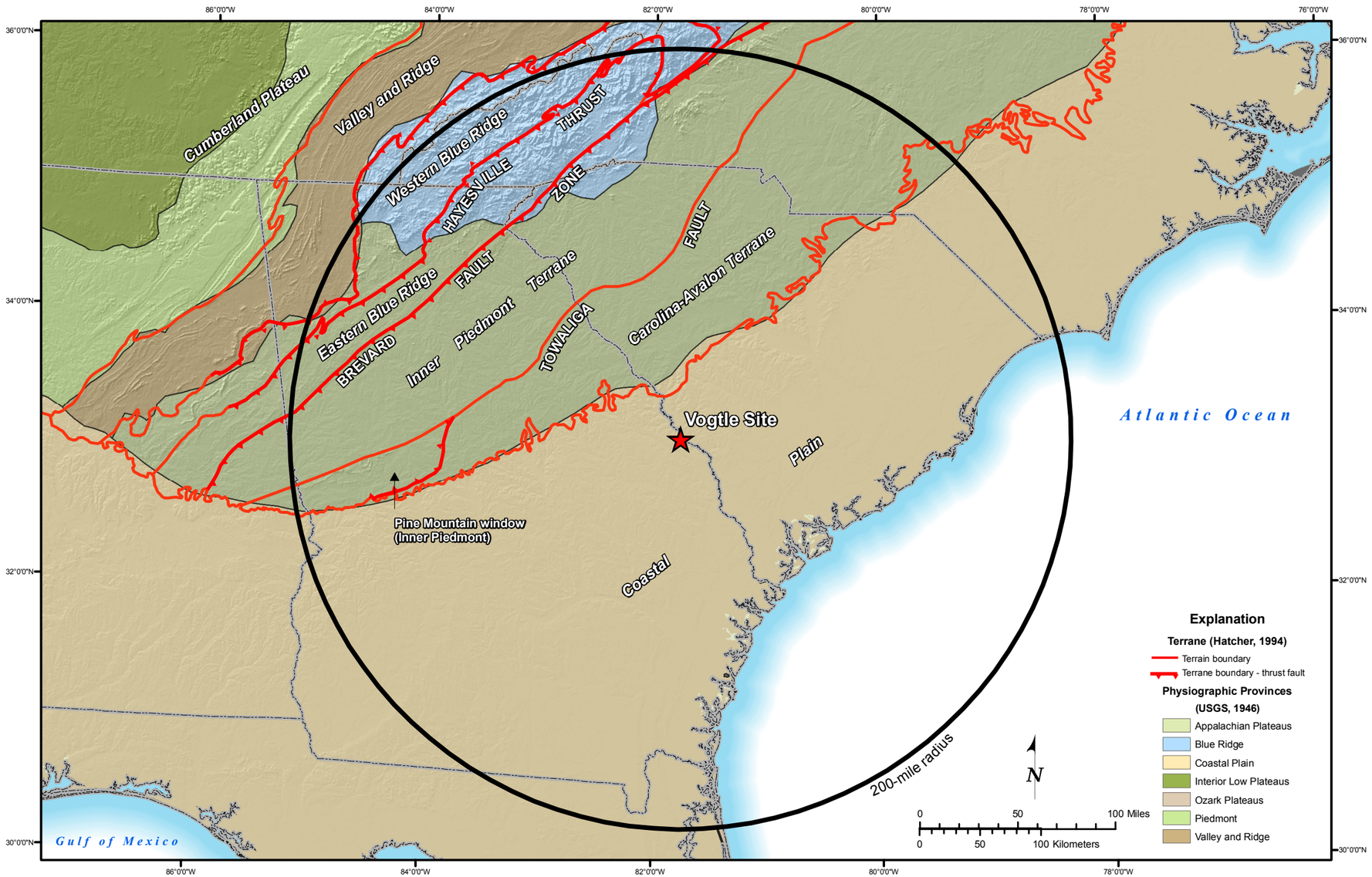

Figure 2.5.1-14 Terrains and Physiographic Provinces of Site Region

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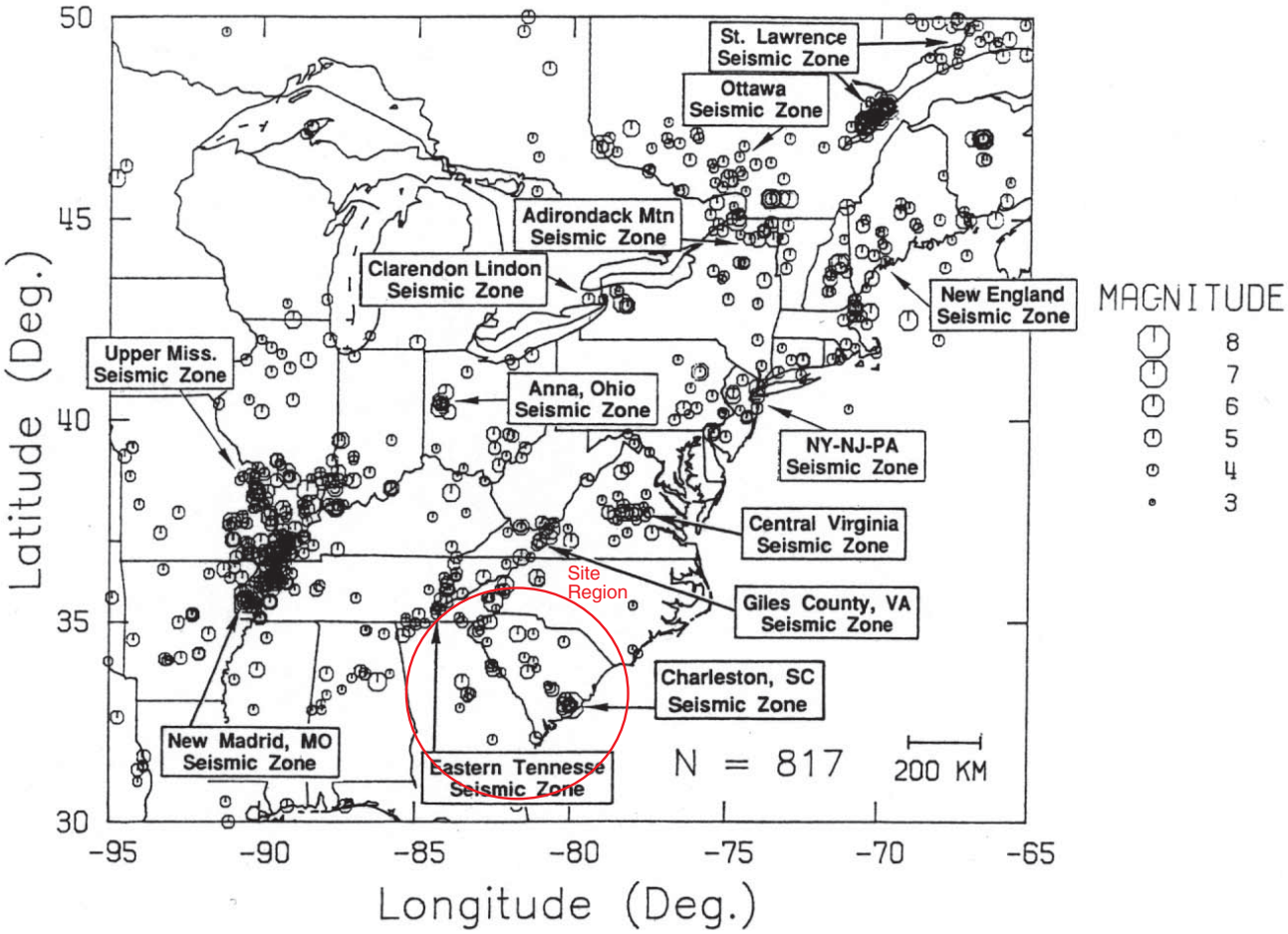

Figure 2.1-15 Seismic Source Zones and Seismicity in Central and Eastern North America

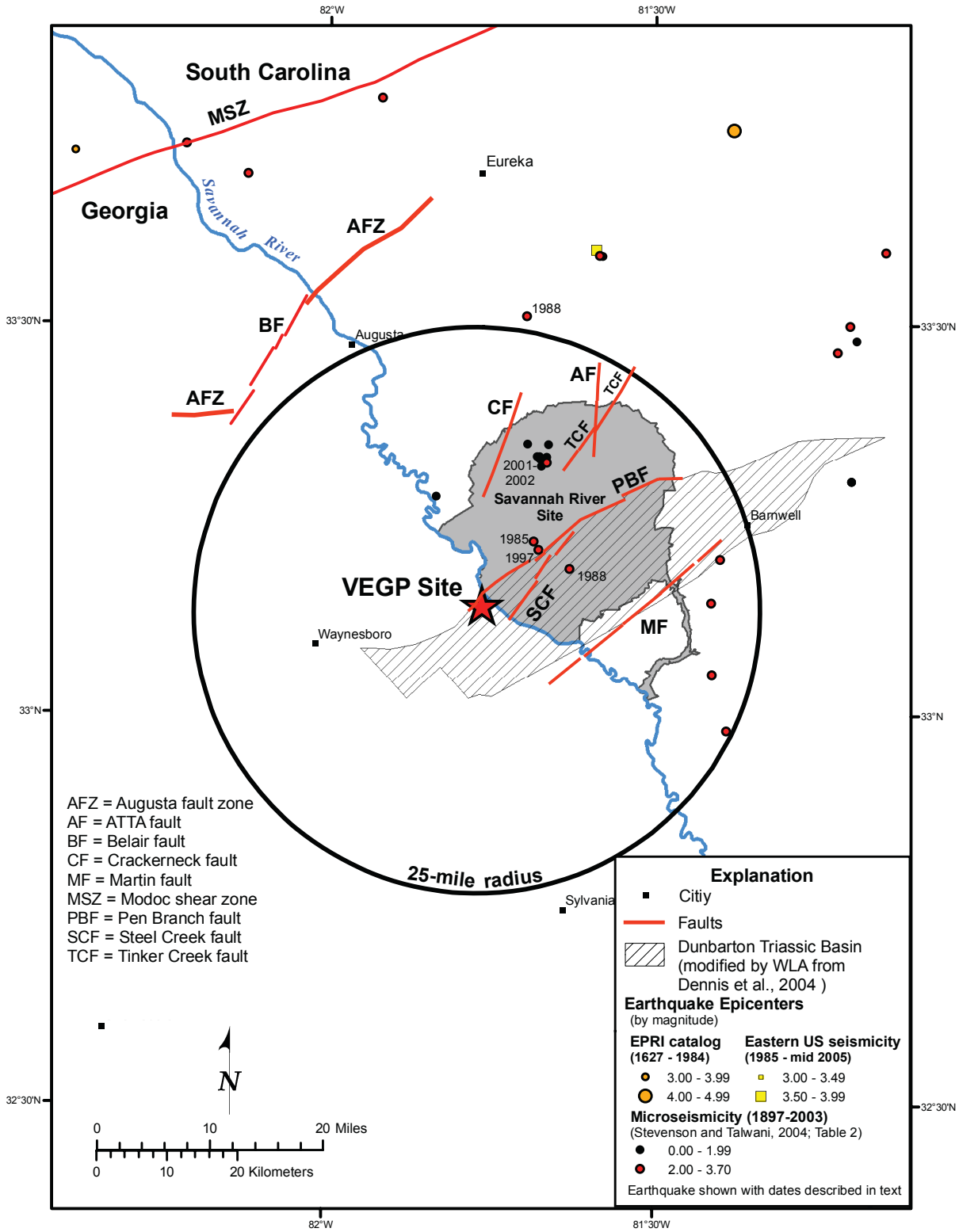

Figure 2.1-16 Site Vicinity Tectonic Features and Seismicity

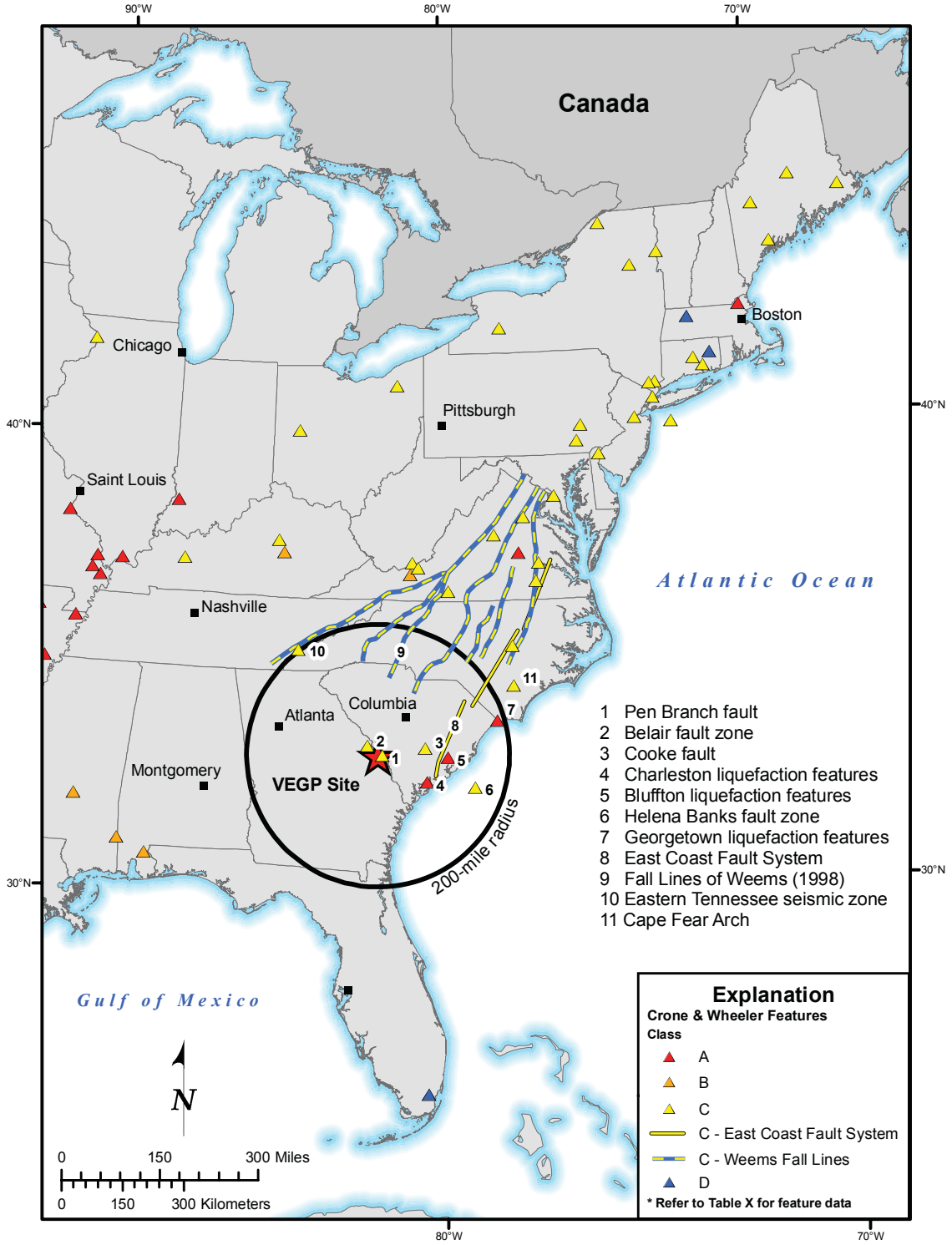

Figure 2.1-17 Potential Quarternary Features Map

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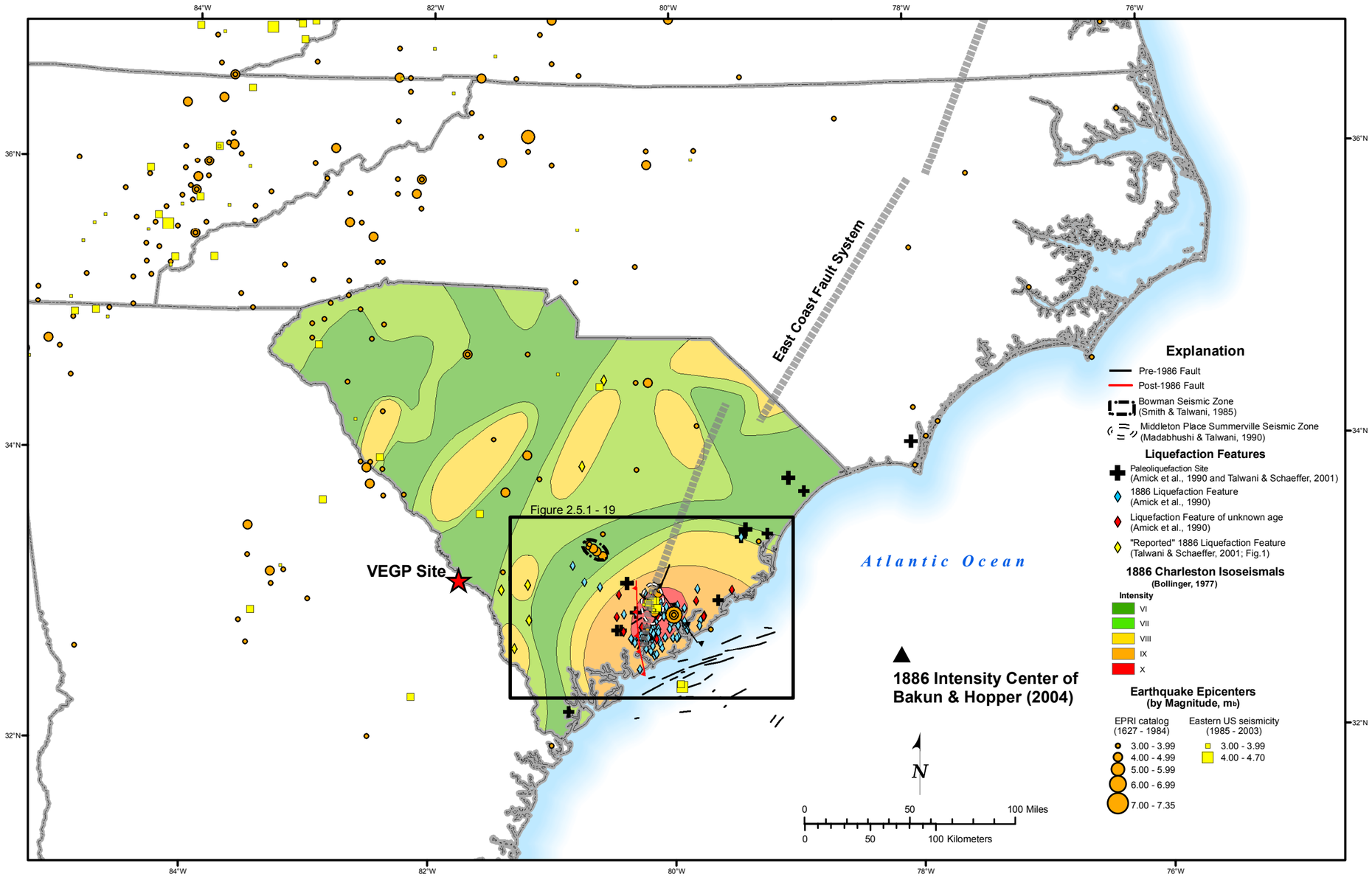

Figure 2.5.1-18 Regional Charleston Tectonic Features

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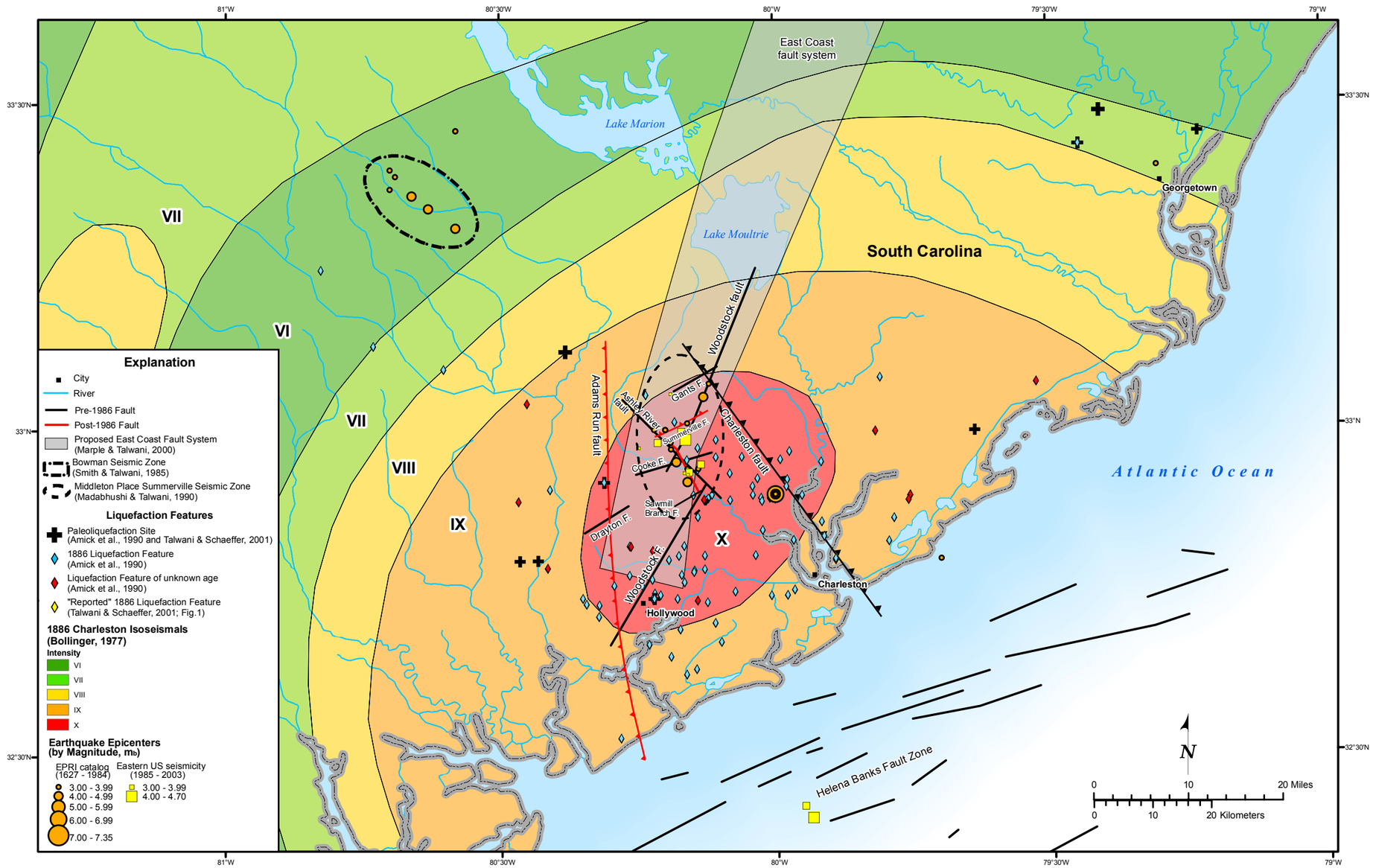

Figure 2.5.1-19 Local Charleston Tectonic Features

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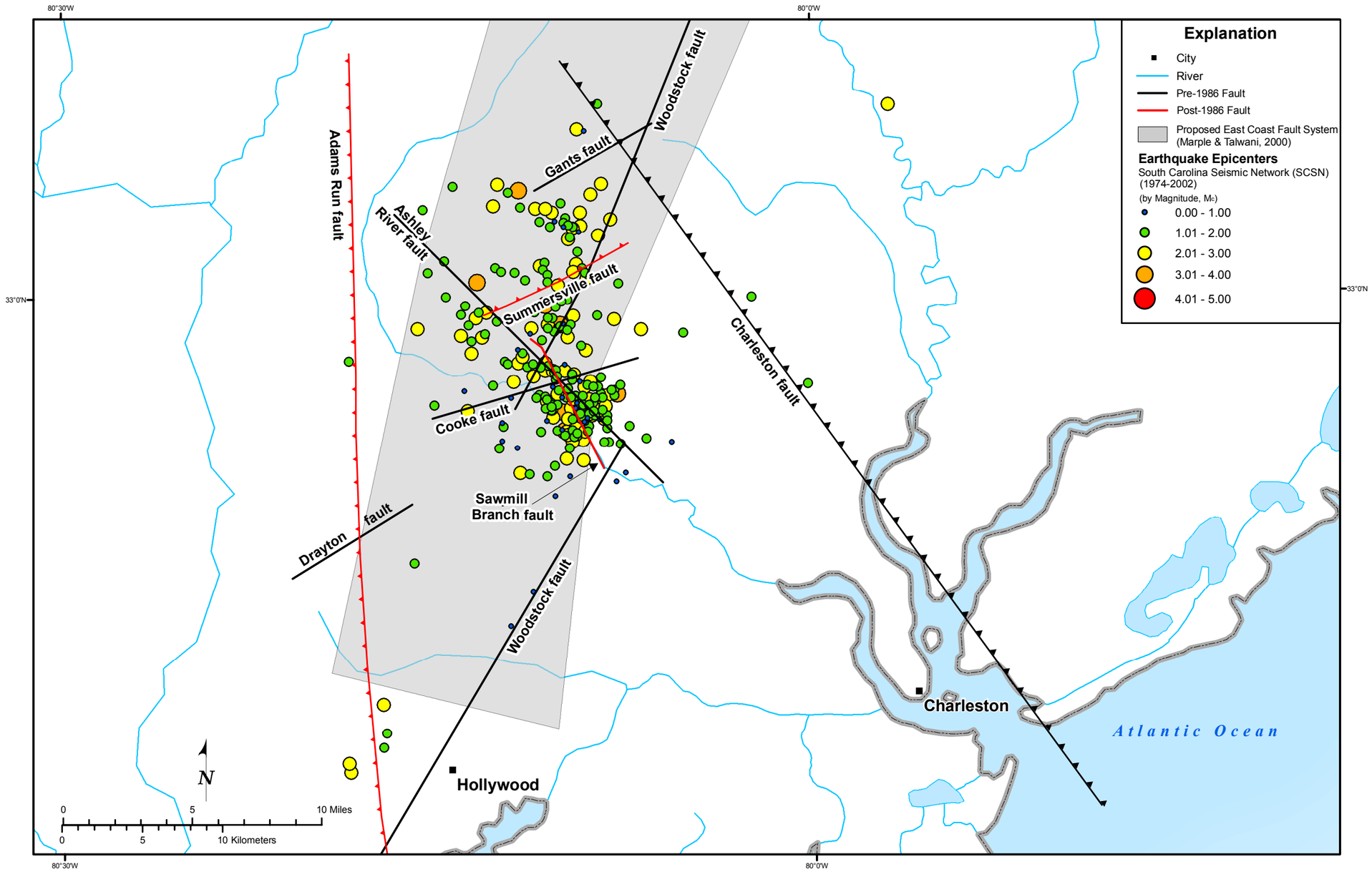

Figure 2.5.1-20 Local Charleston Seismicity

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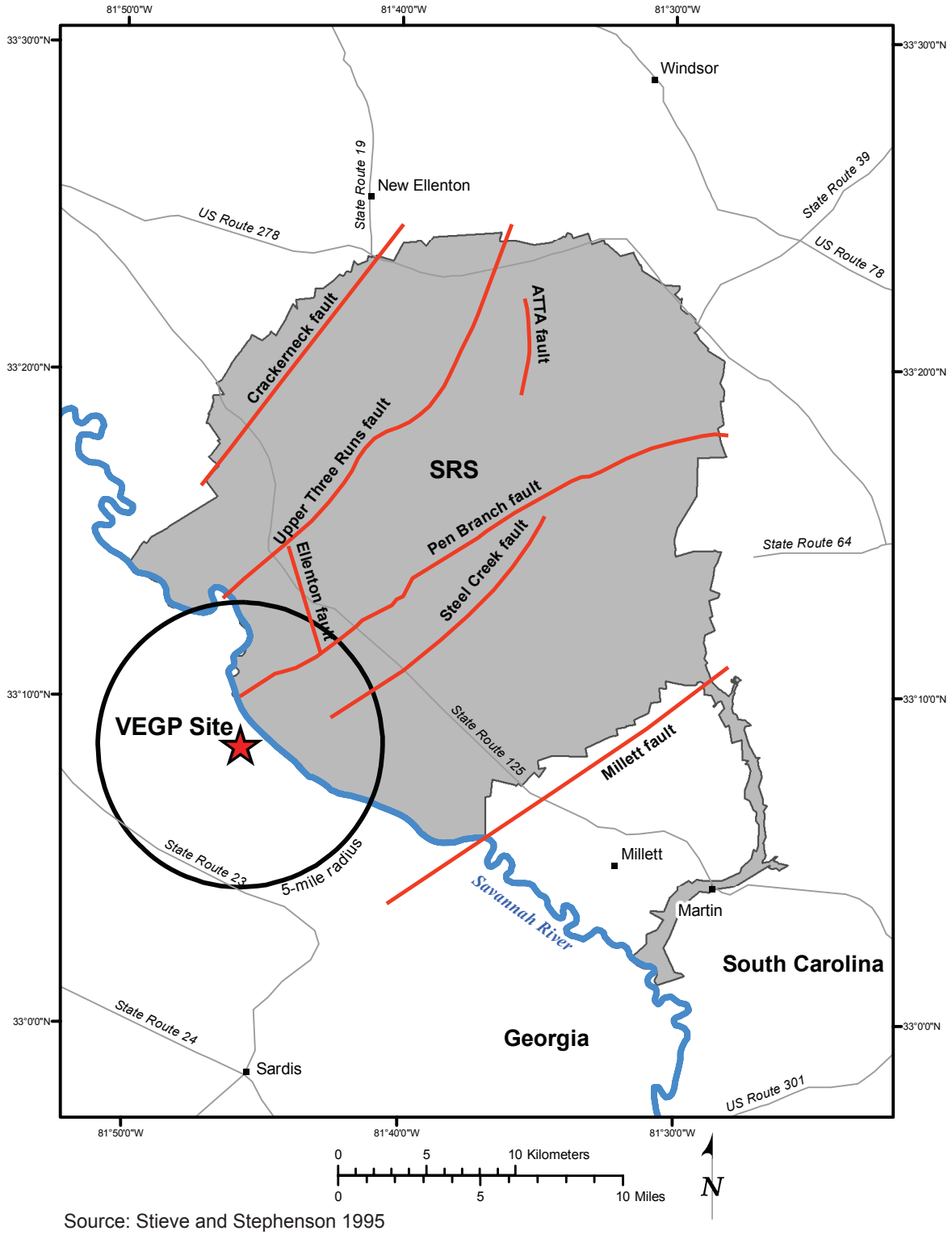
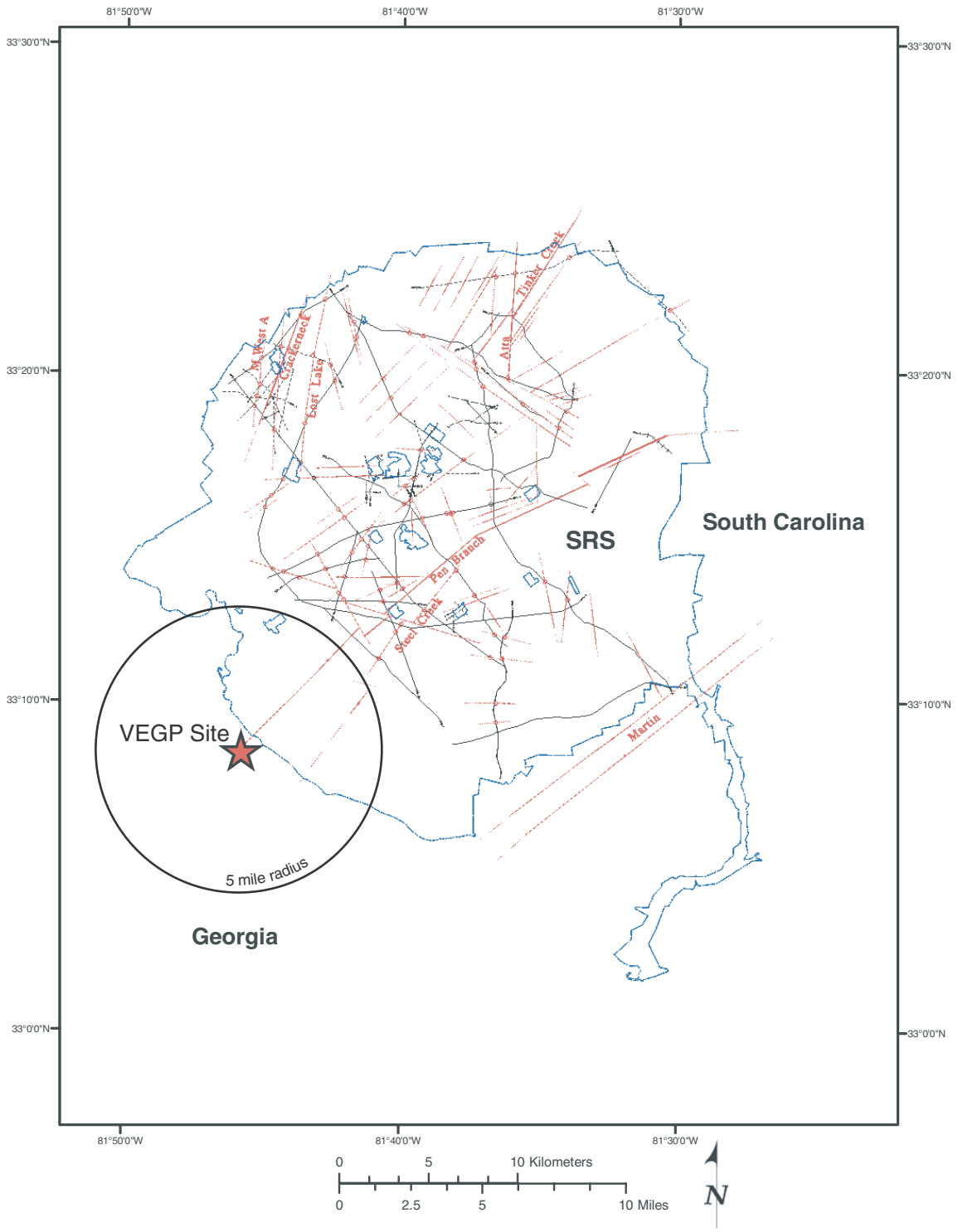


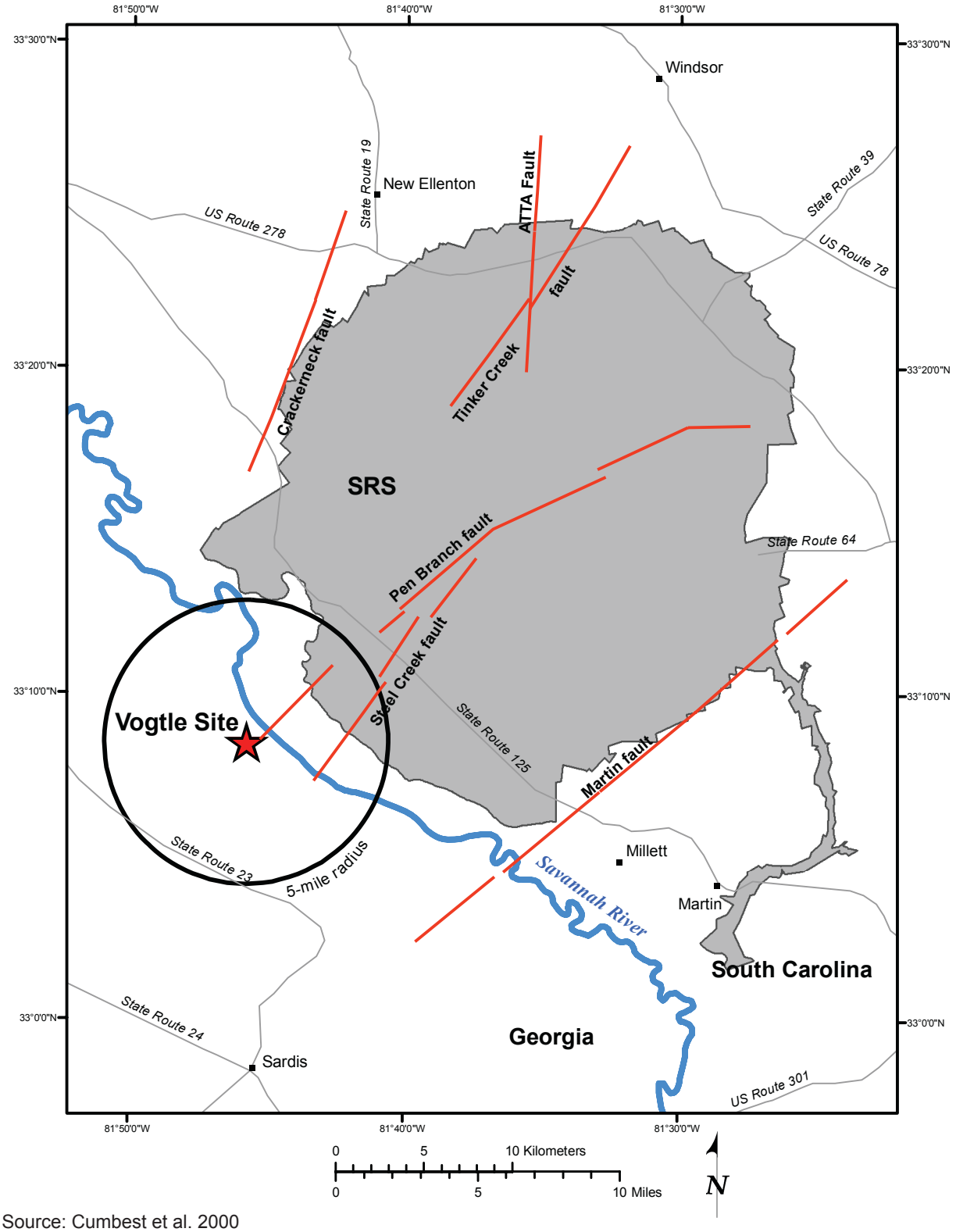
Source: Stieve and Stephenson 1995

Figure 2.5.1-21 SRS Faults from Stieve and Stephenson (1995)



Source: Cumbest et al. 1998

Figure 2.5.1-22 SRS Faults from Cumbest et al. (1998)



Source: Cumbest et al. 2000

Figure 2.5.1-23 SRS Faults — First-Order Faults of Cumbest et al. (2000)

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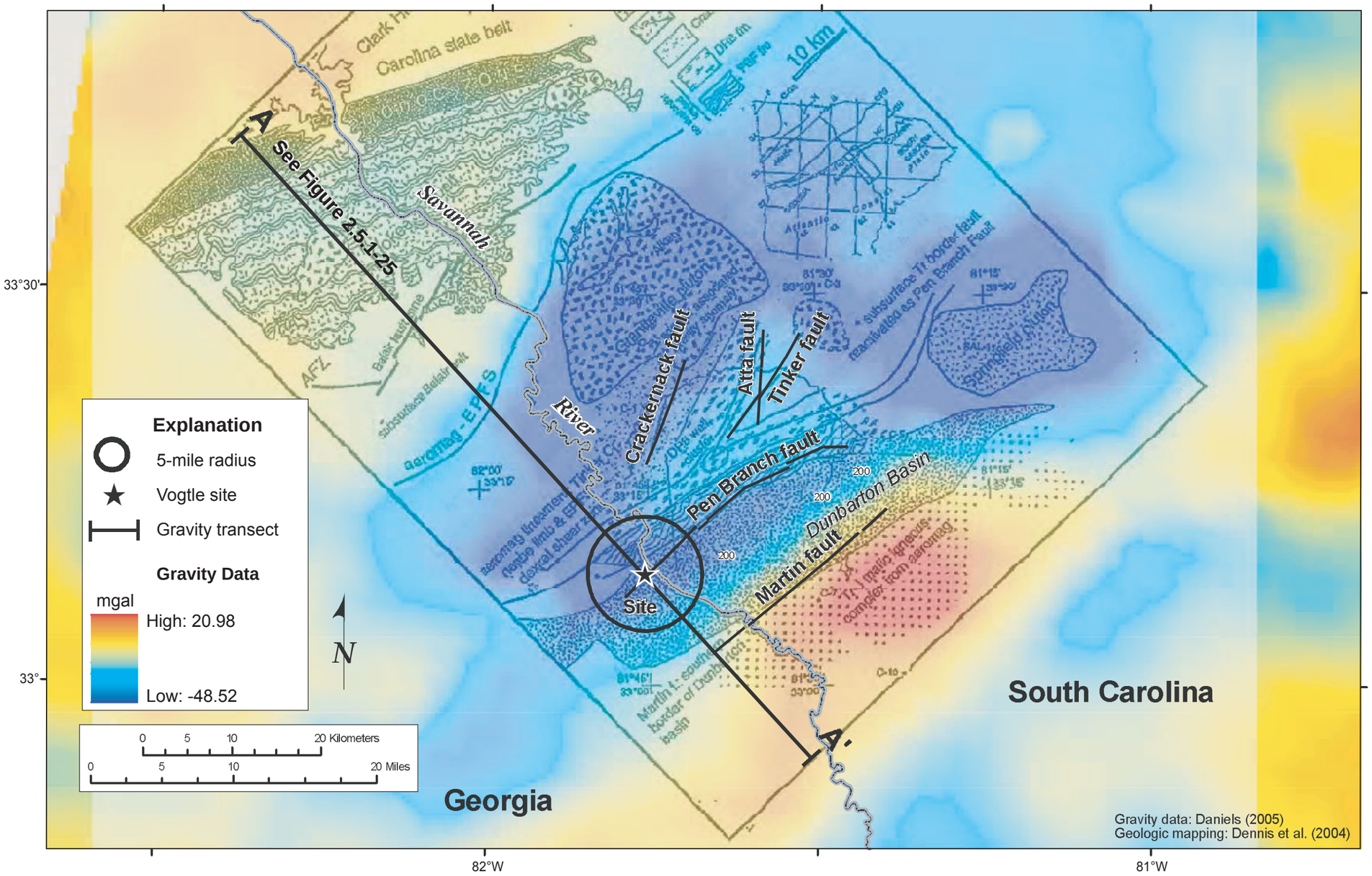

Figure 2.5.1-24 Gravity Field in the Vicinity of the VEGP Site

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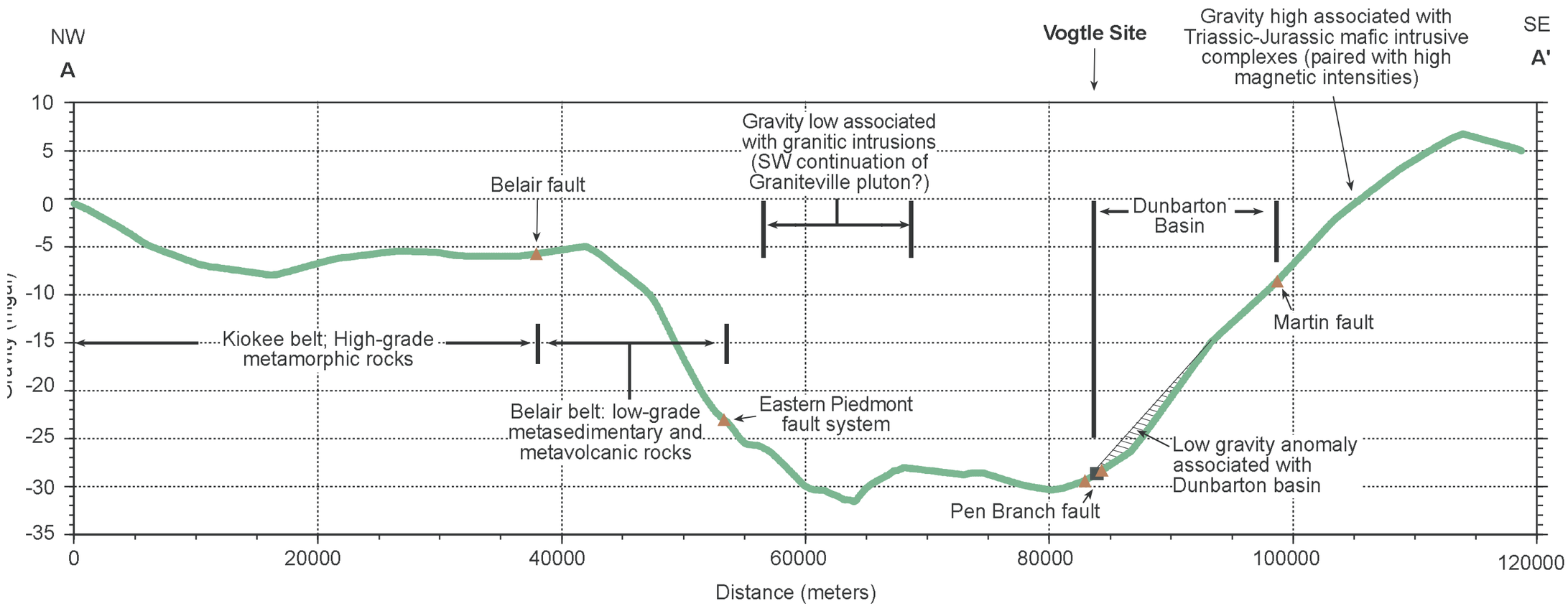

Figure 2.5.1-25 Northwest-Southeast Gravity Profile Through the VEGP Site

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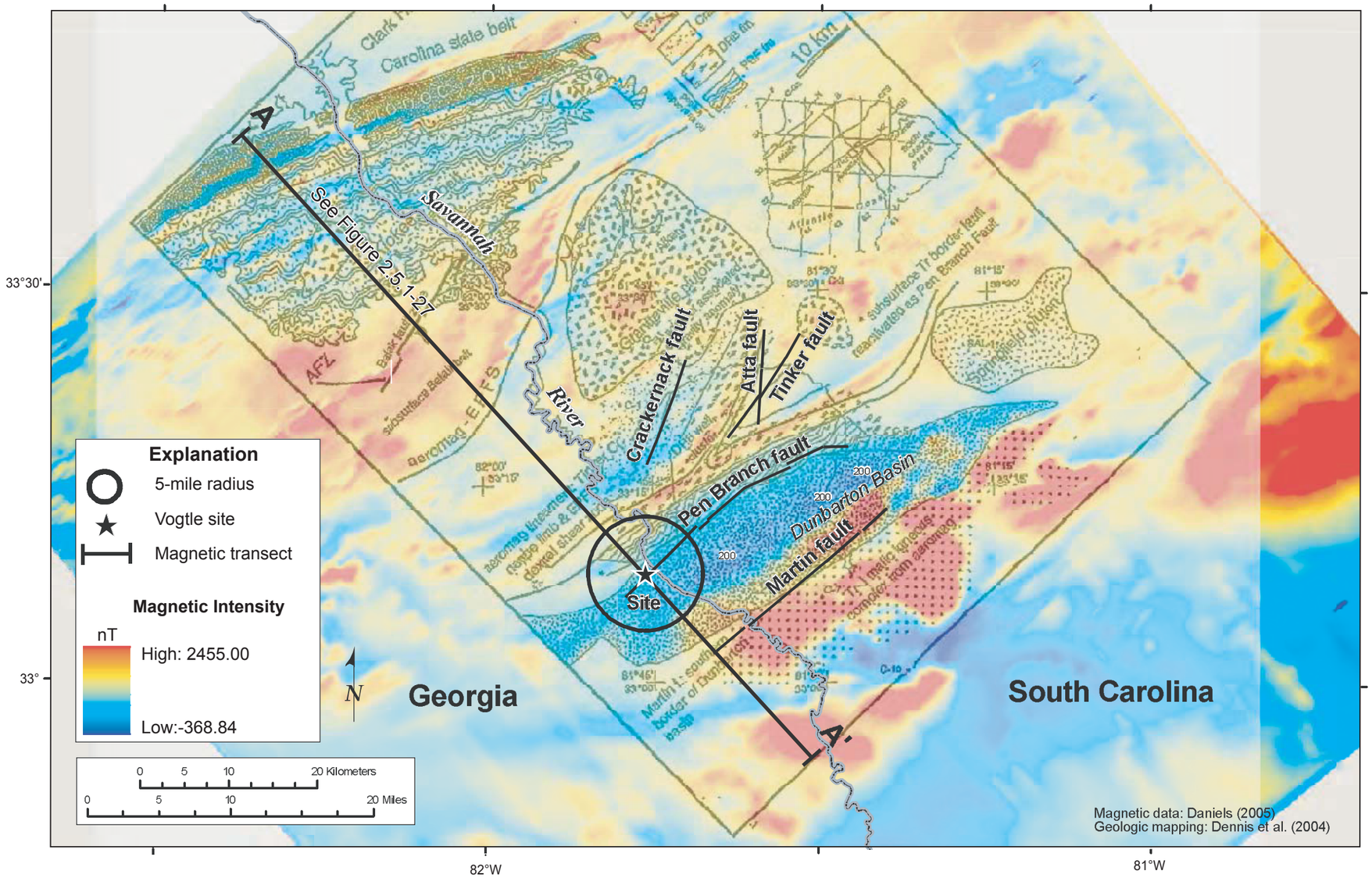

Figure 2.5.1-26 Magnetic Field in the Vicinity of the VEGP Site

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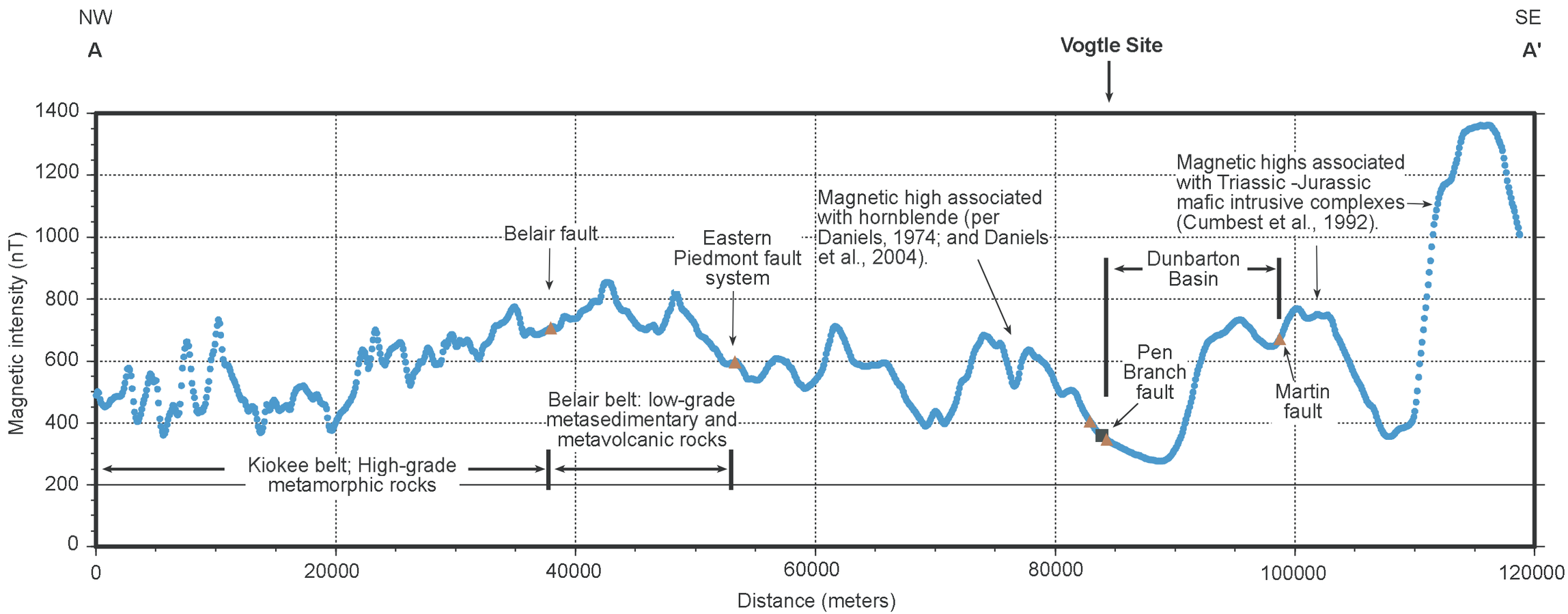

Figure 2.5.1-27 Northwest-Southeast Profile of Magnetic Intensity Through the VEGP Site

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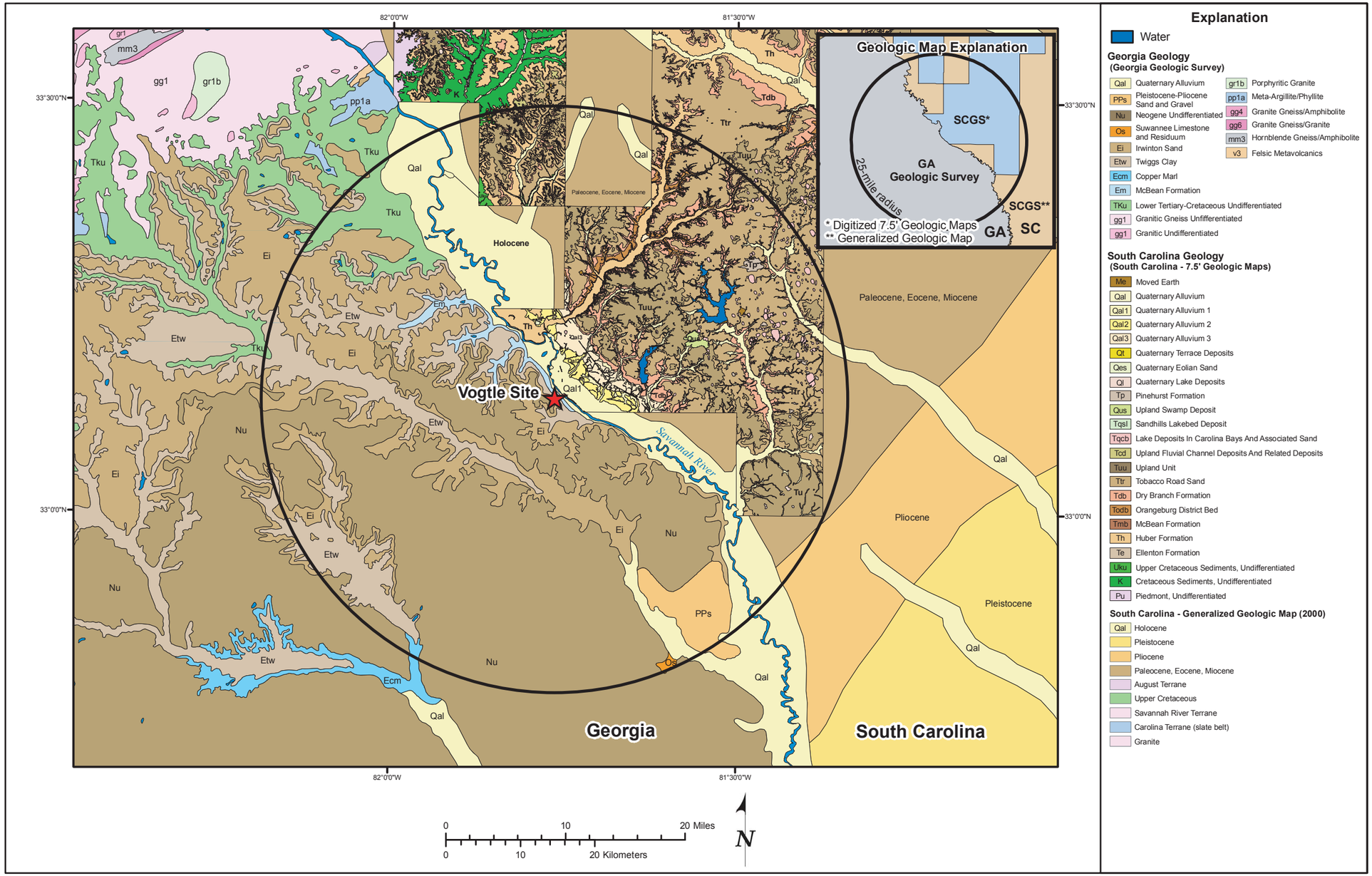

Figure 2.5.1-28 Site Velocity Geologic Map (25-Mile Radius)

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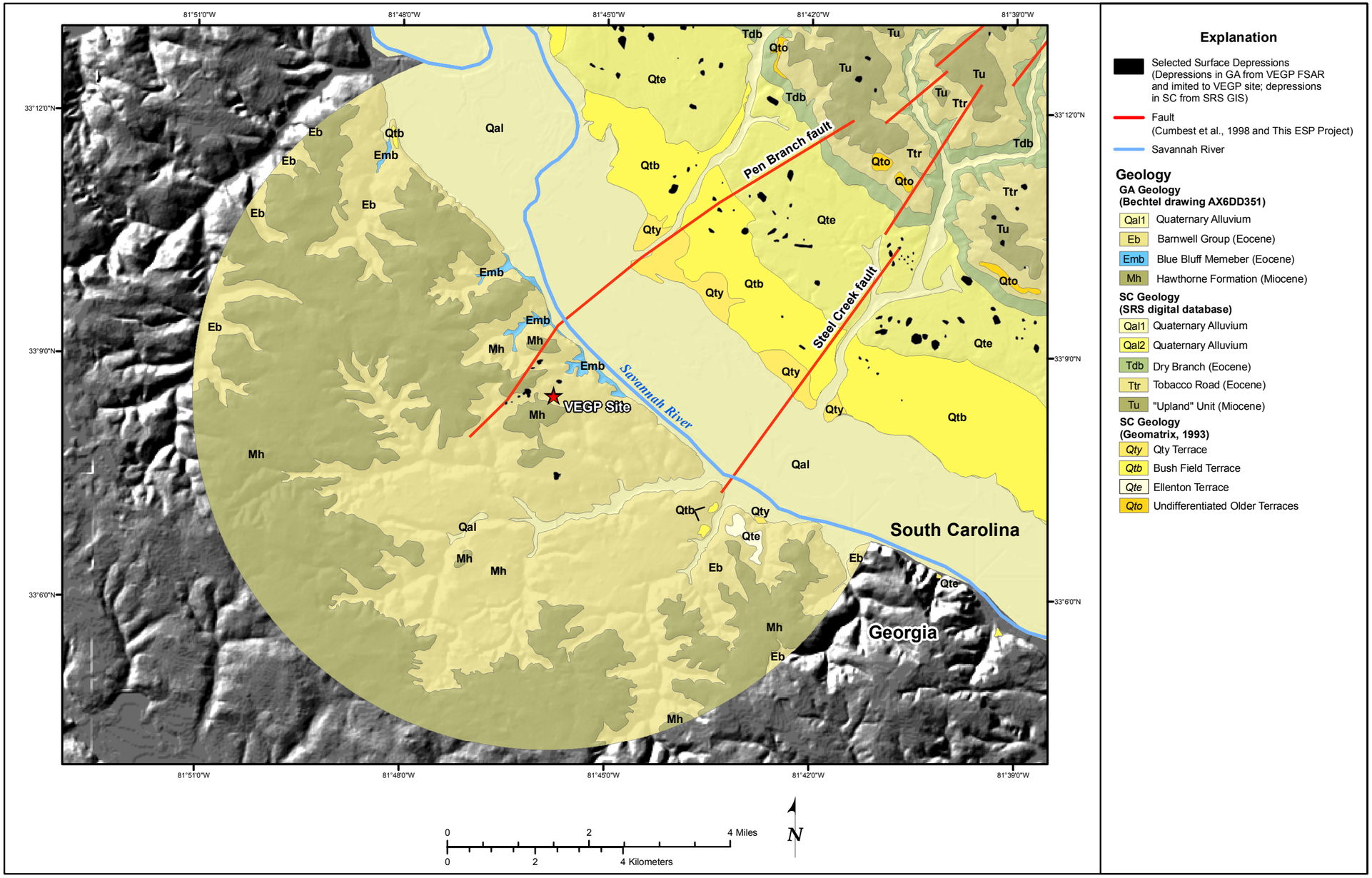

Figure 2.5.1-29 Site Area Geologic Map (5-Mile Radius)

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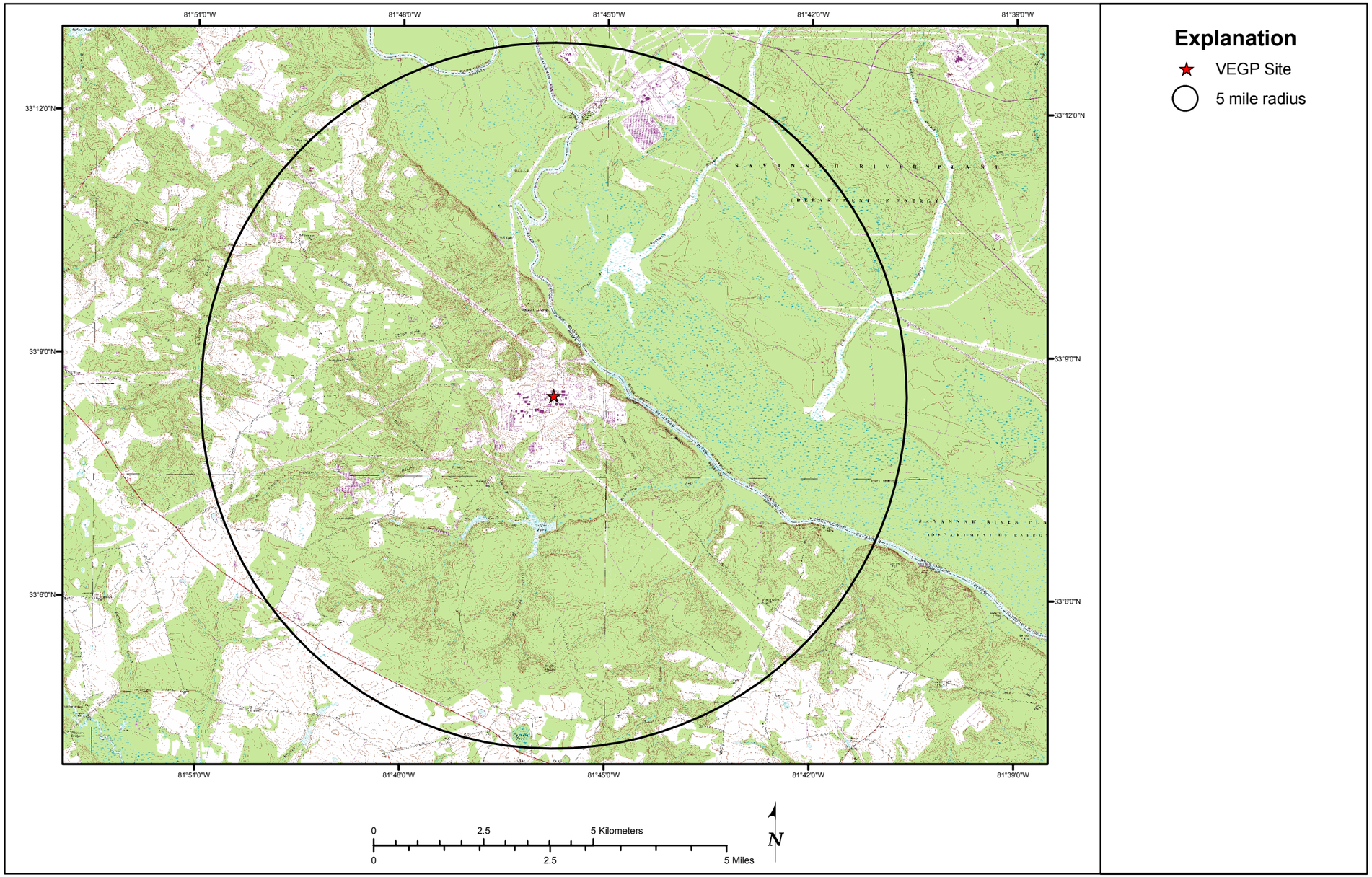

Figure 2.5.1-30 Site Area Topographic Map (5-Mile Radius)

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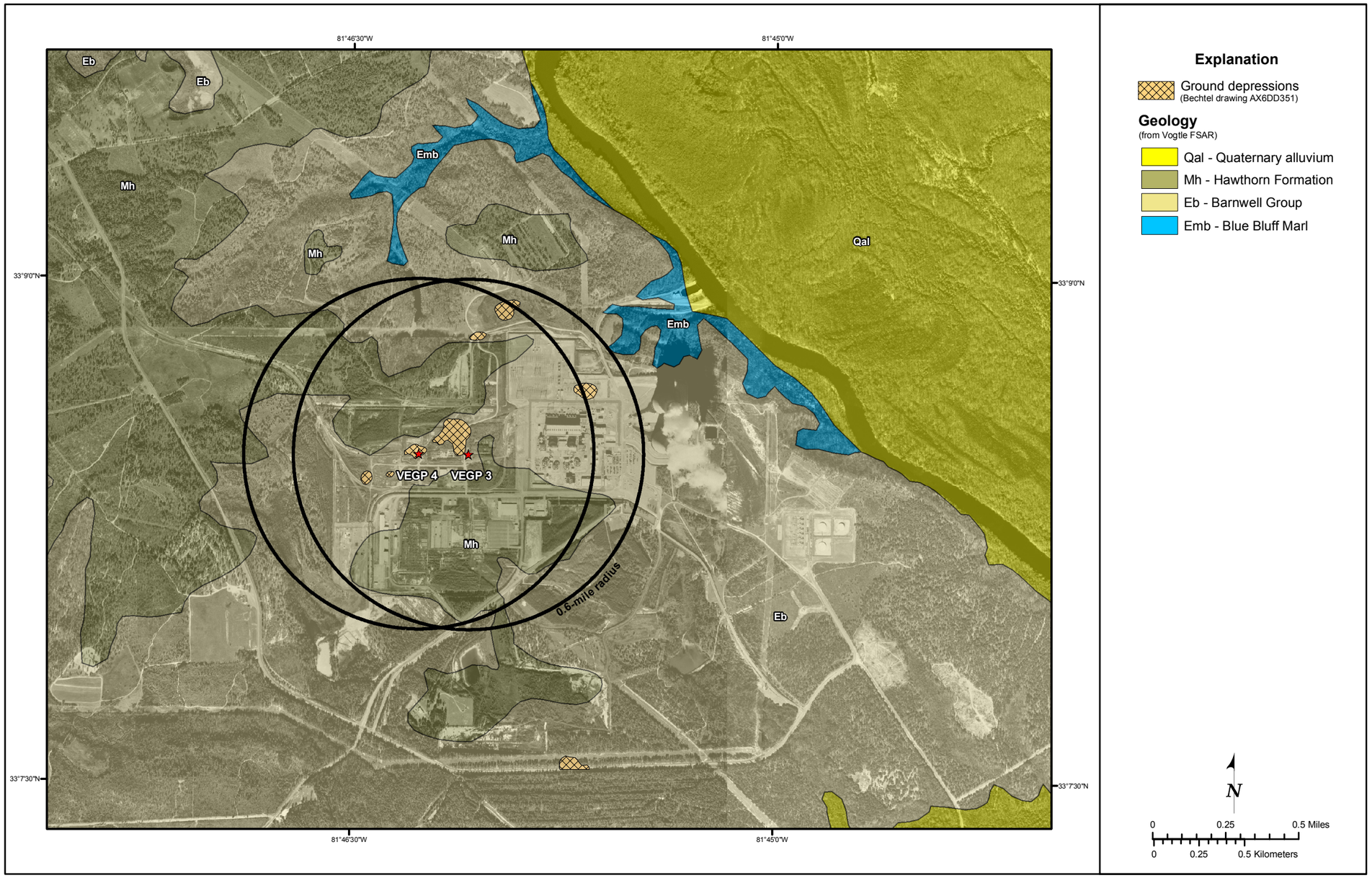

Figure 2.5.1-31 Site Geologic Map (0.6-Mile Radius)

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