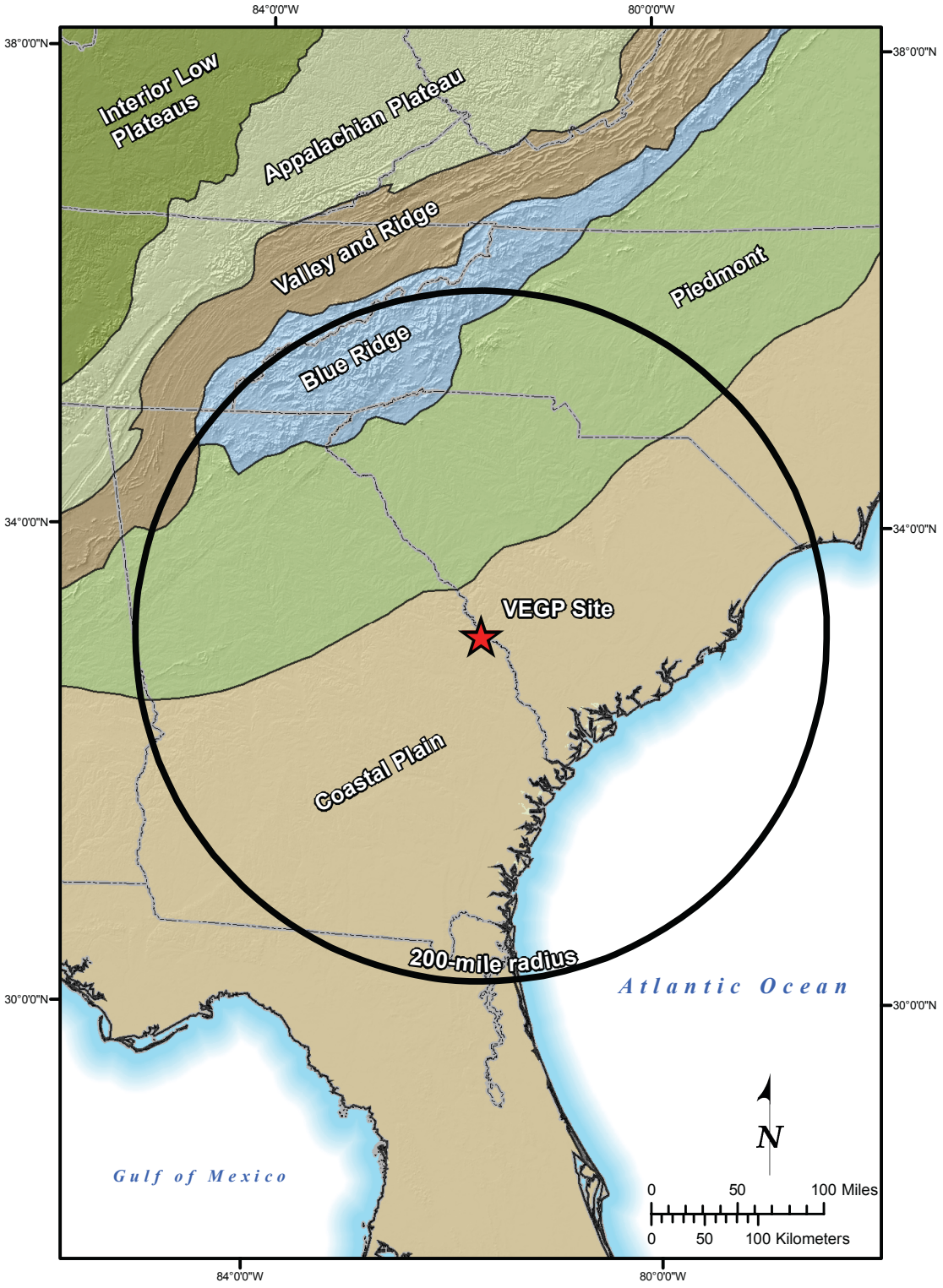


**Figure 2.5.1-1 Physiographic Provinces of the Southeastern United States**

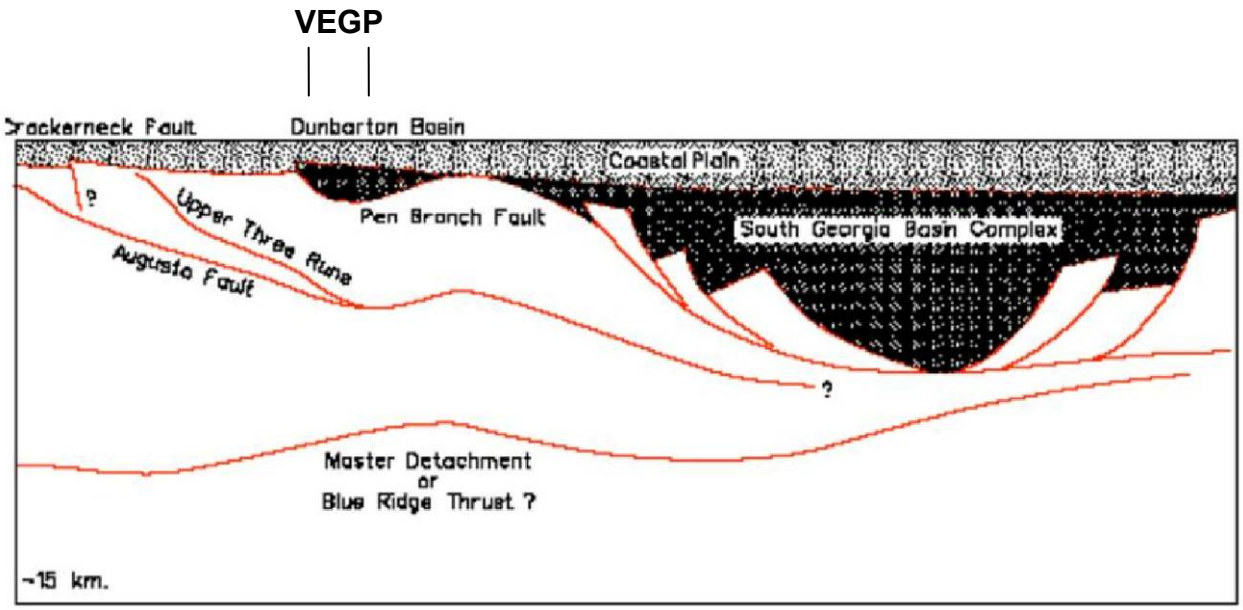


**Figure 2.5.1-2 Conceptual Section Linking Dunbarton Basin with South Georgia Basin Complex**

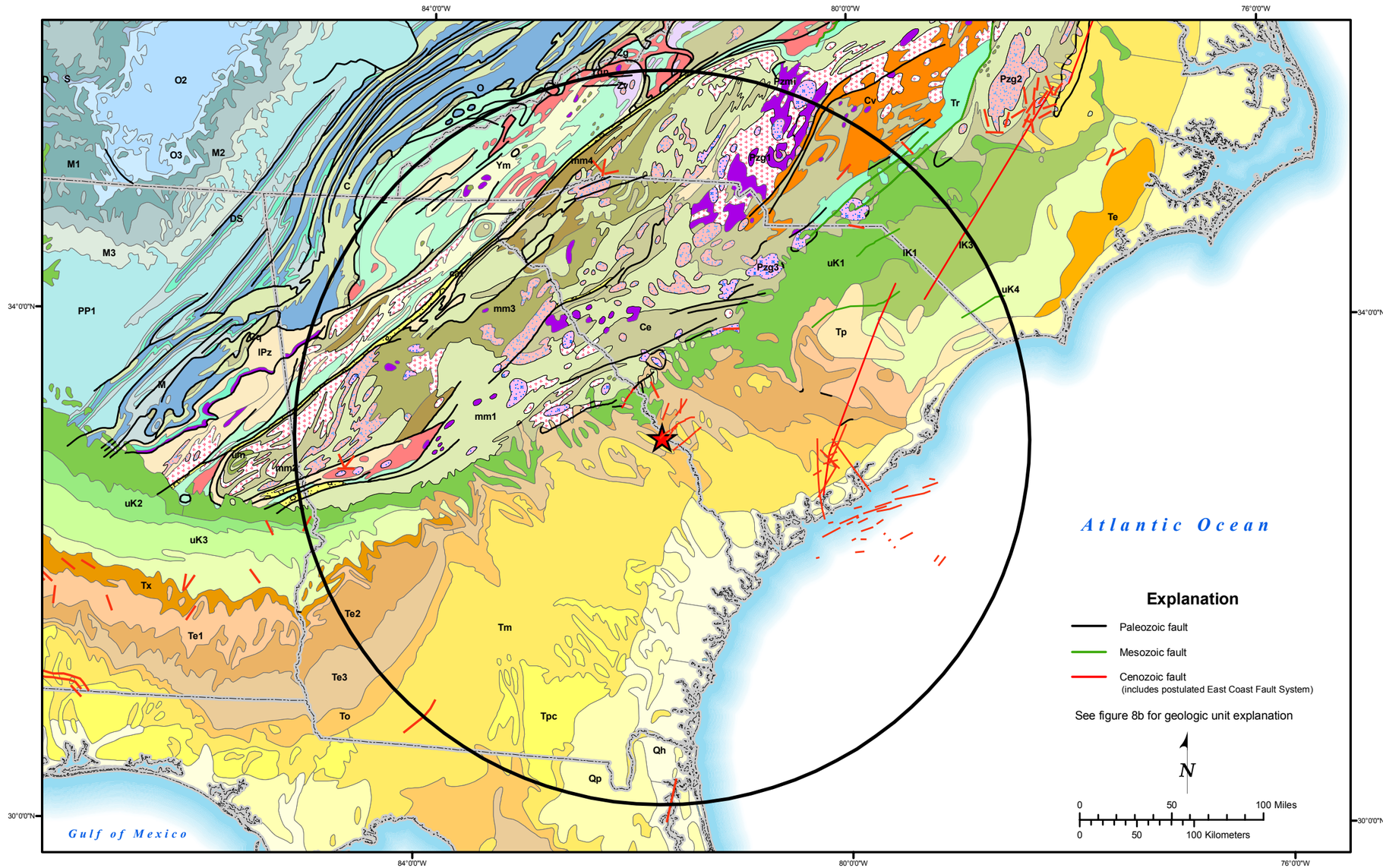


**Figure 2.5.1-3 Regional Geologic Map (200-Mile Radius)z**

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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**

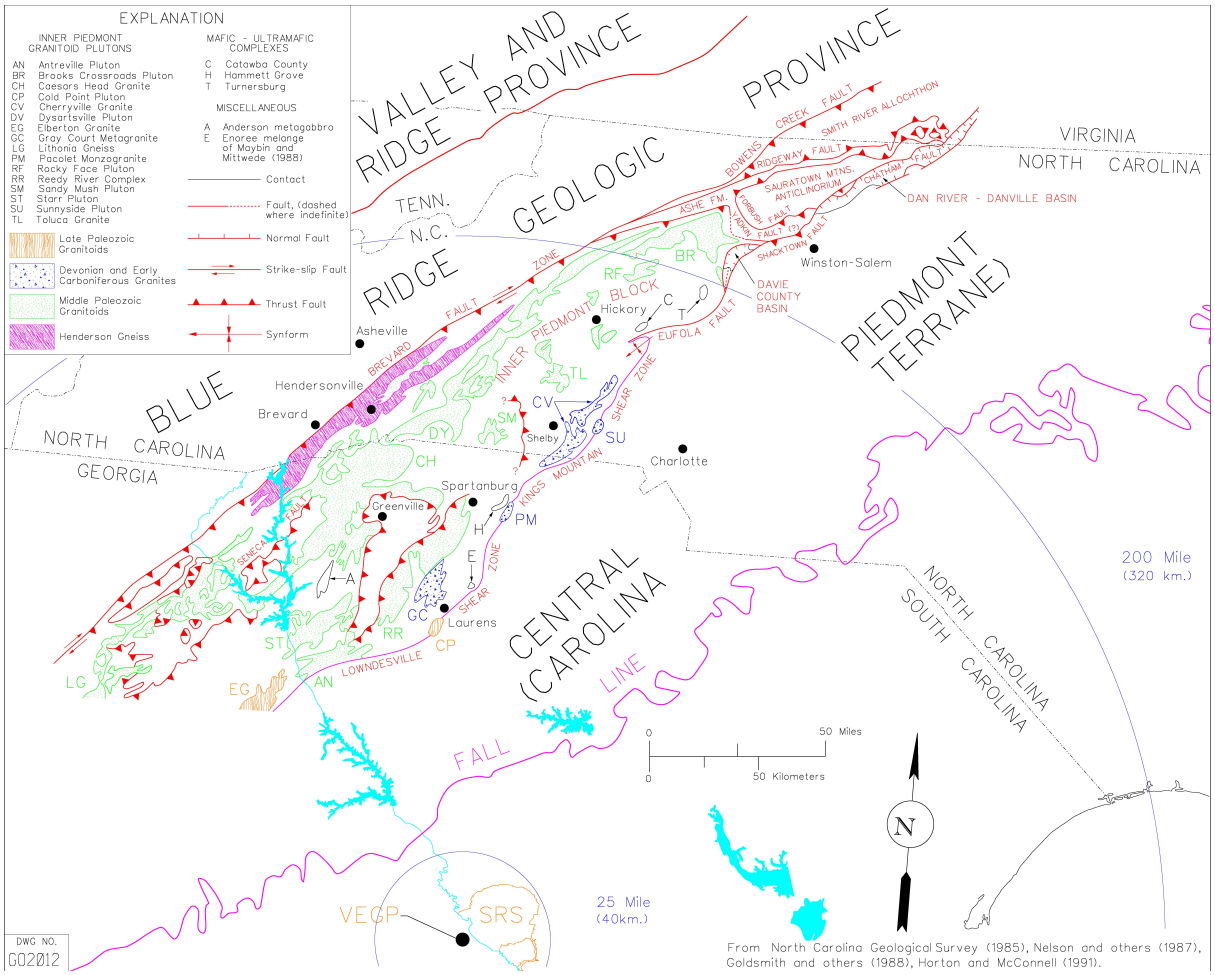


**Figure 2.5.1-5 Simplified Geologic Map of Western Piedmont Terrane in Relation to Blue Ridge and Carolina Terranes**

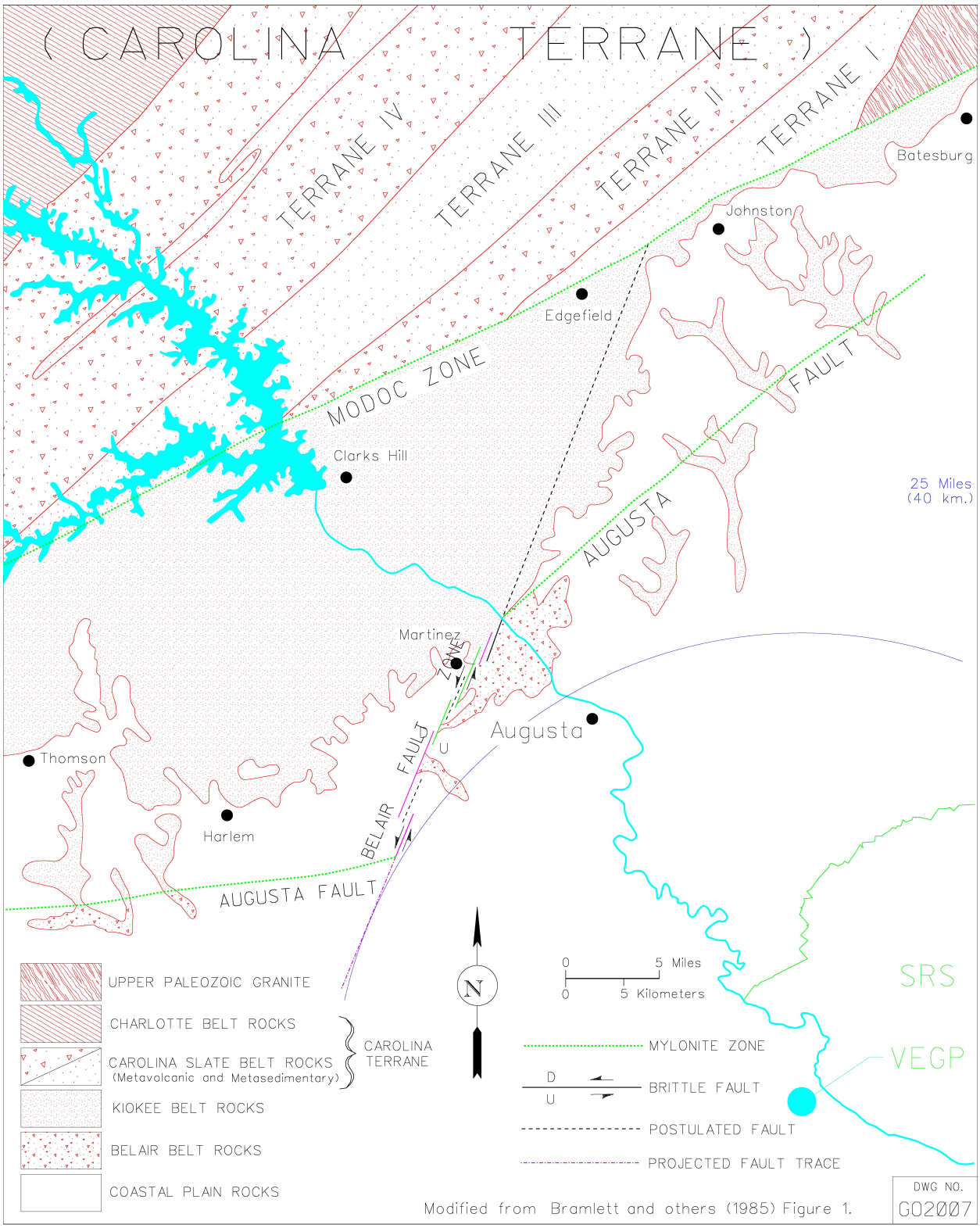


**Figure 2.5.1-6 Map of Carolina Terrane and Modoc Zone**

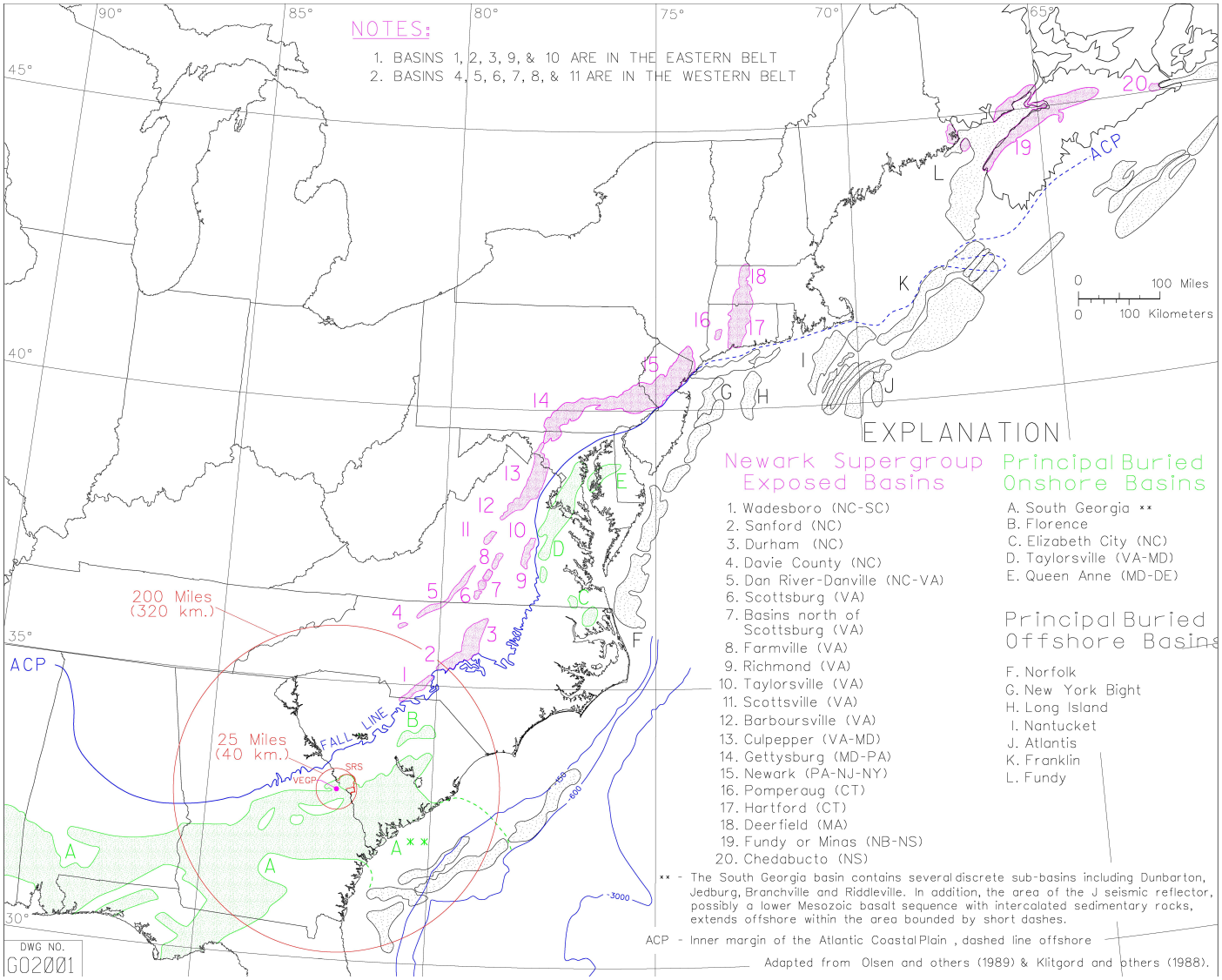


**Figure 2.5.1-7 Triassic Basins in the Eastern United States**

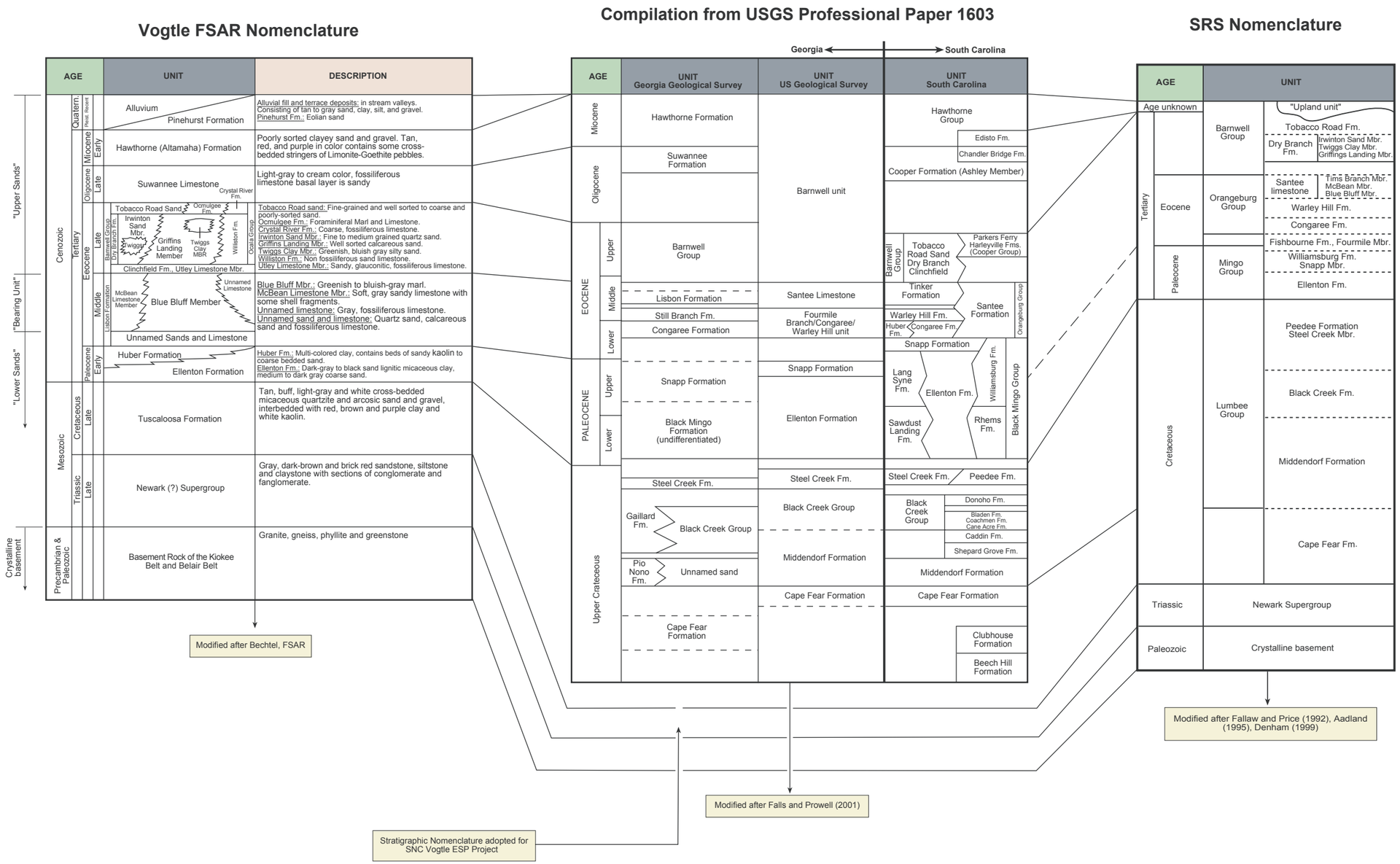


**Figure 2.5.1-8 Stratigraphic Correlation Chart**

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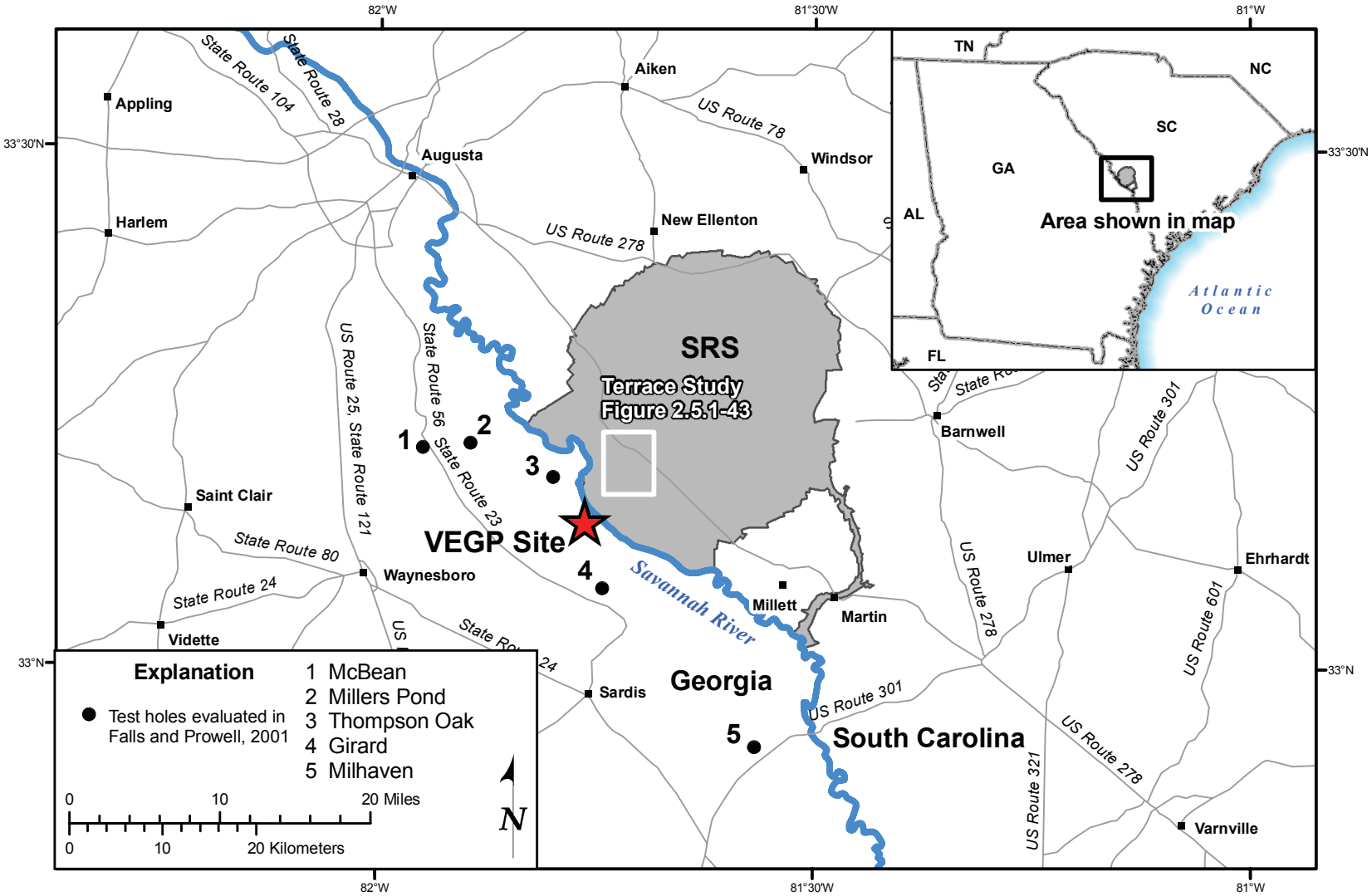



**Figure 2.5.1-9 Location Map Showing SRS Boundary and VEGP Site**

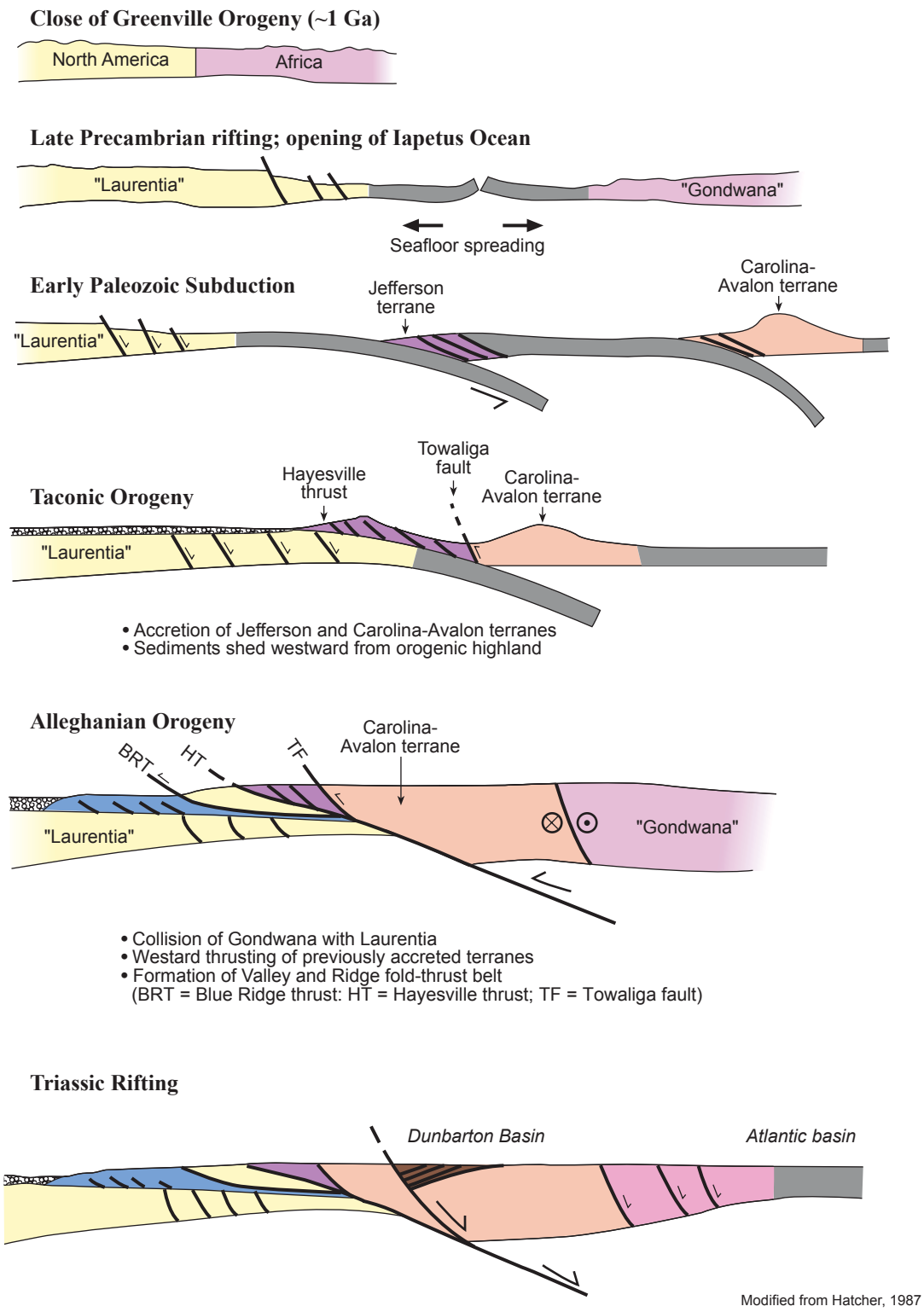
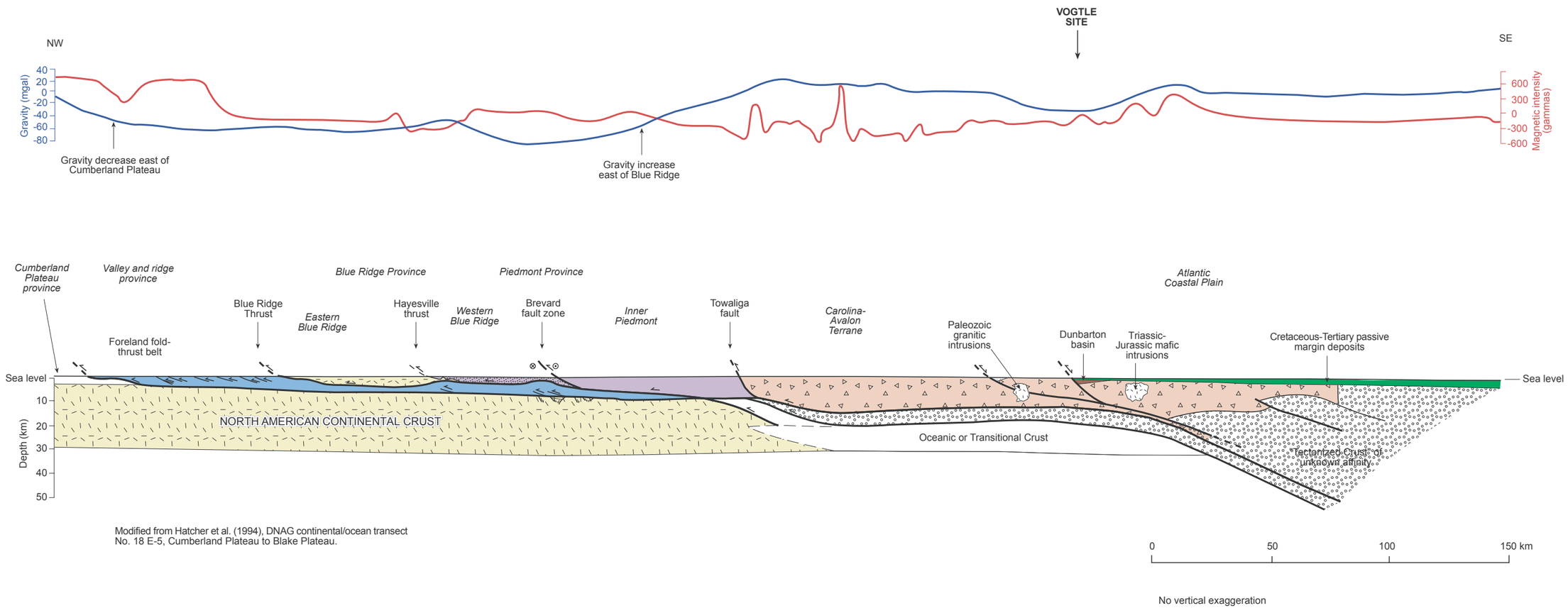



**Figure 2.5.1-10 Evolution of the Appalachian Orogen**




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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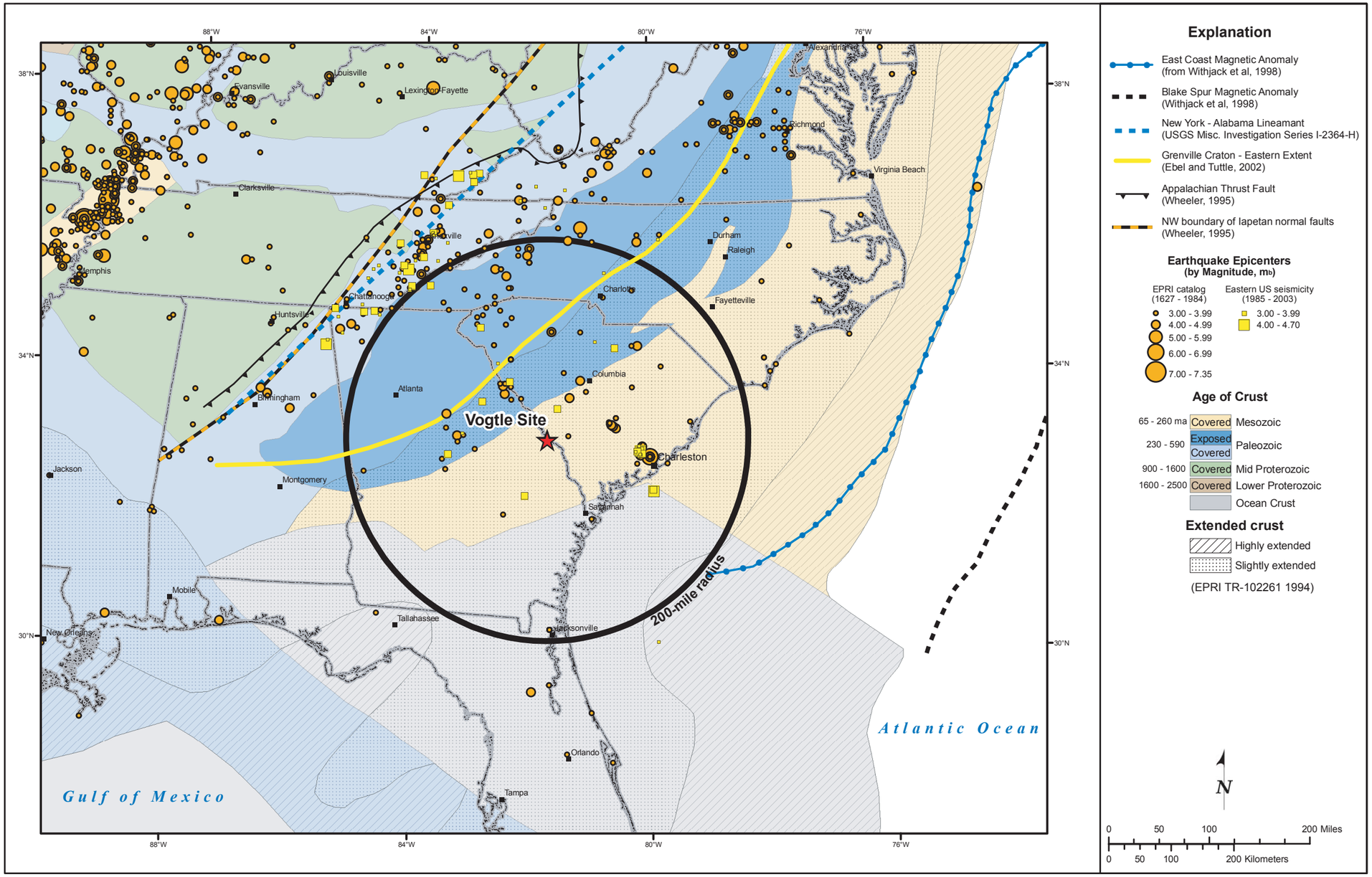


**Figure 2.5.1-12 Tectonic Features of the Southeastern United States**

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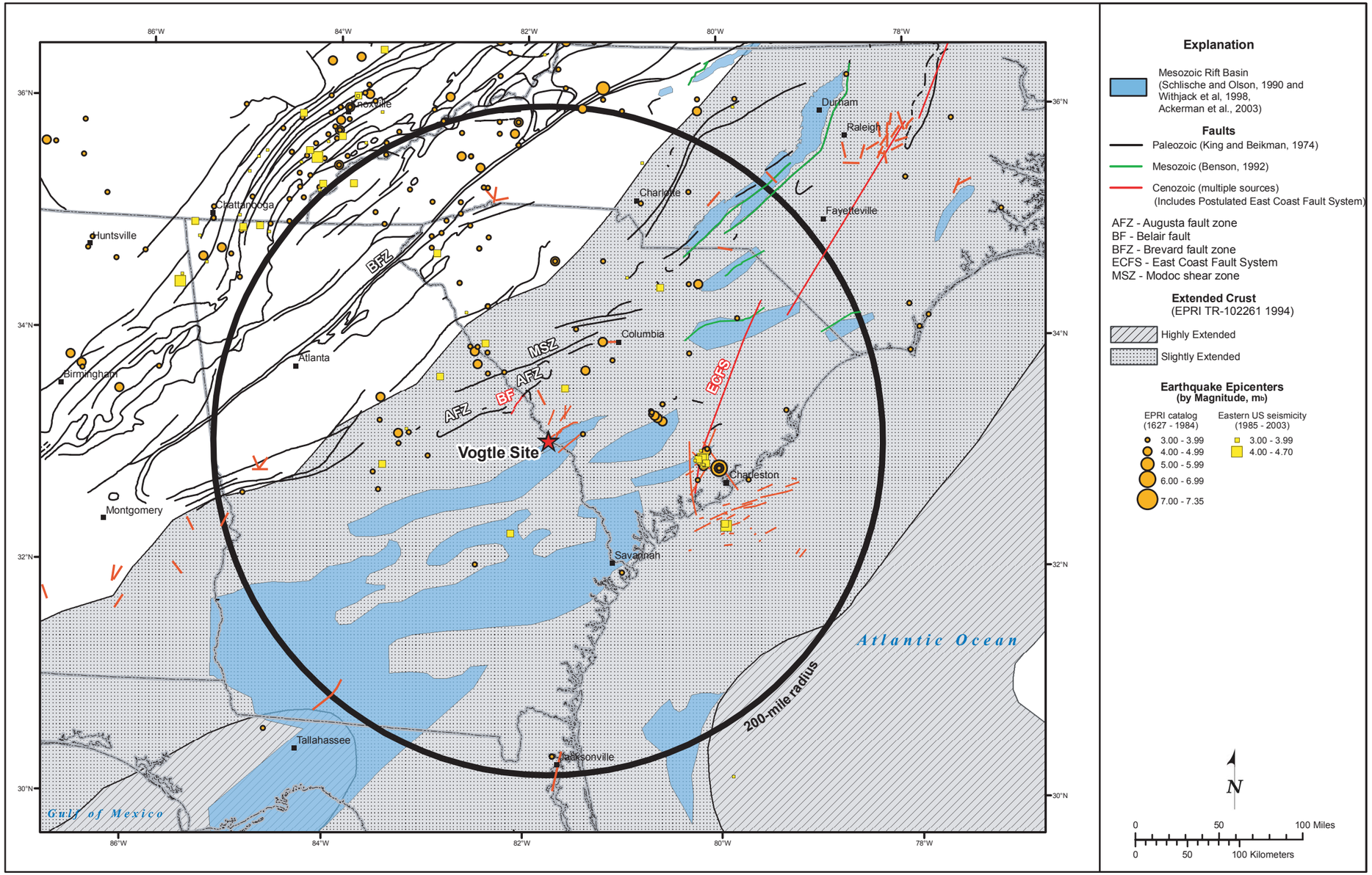


**Figure 2.5.1-13 Regional Tectonic Features Map (200-Mile Radius)**

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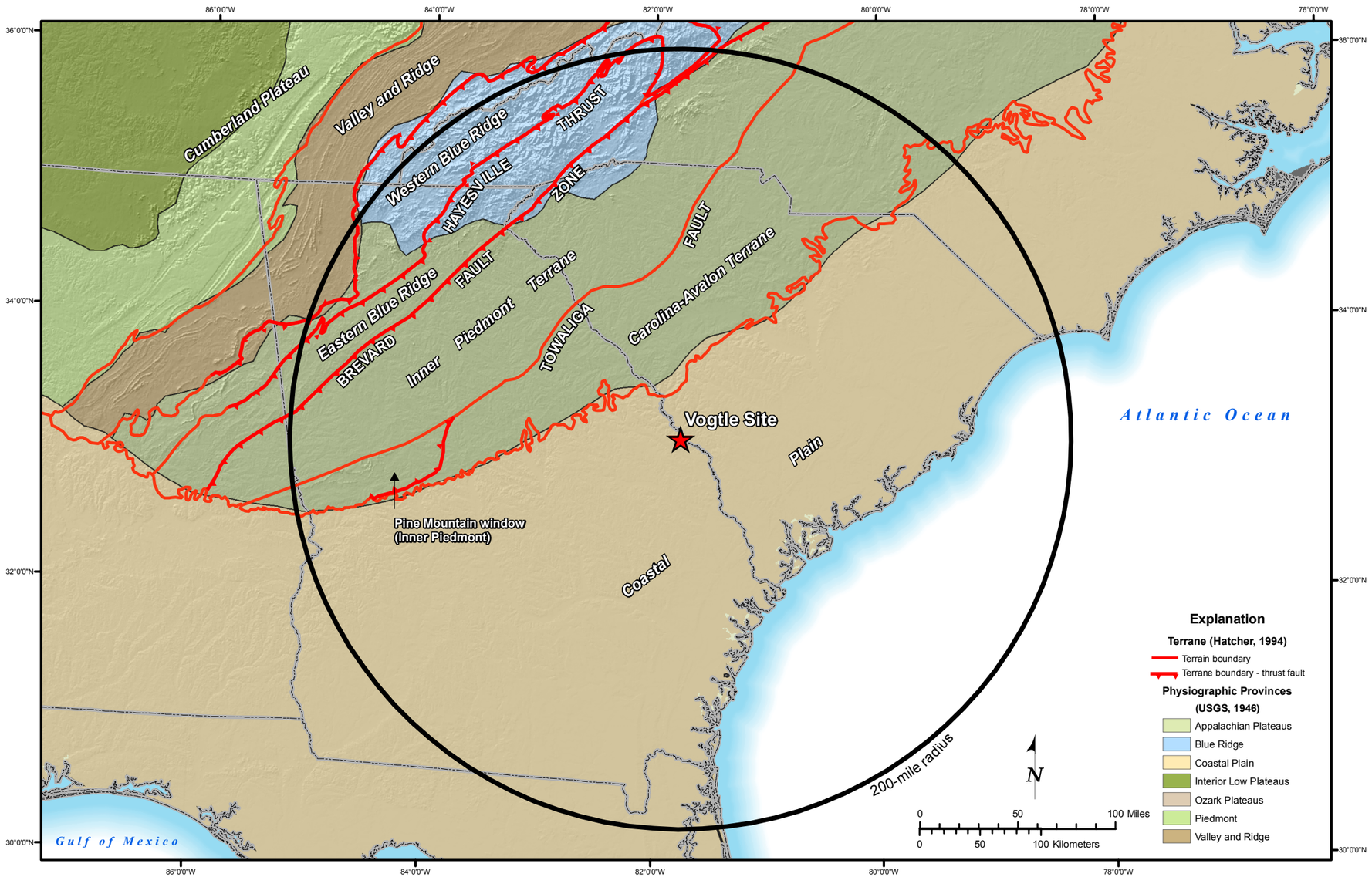


**Figure 2.5.1-14 Terrains and Physiographic Provinces of Site Region**

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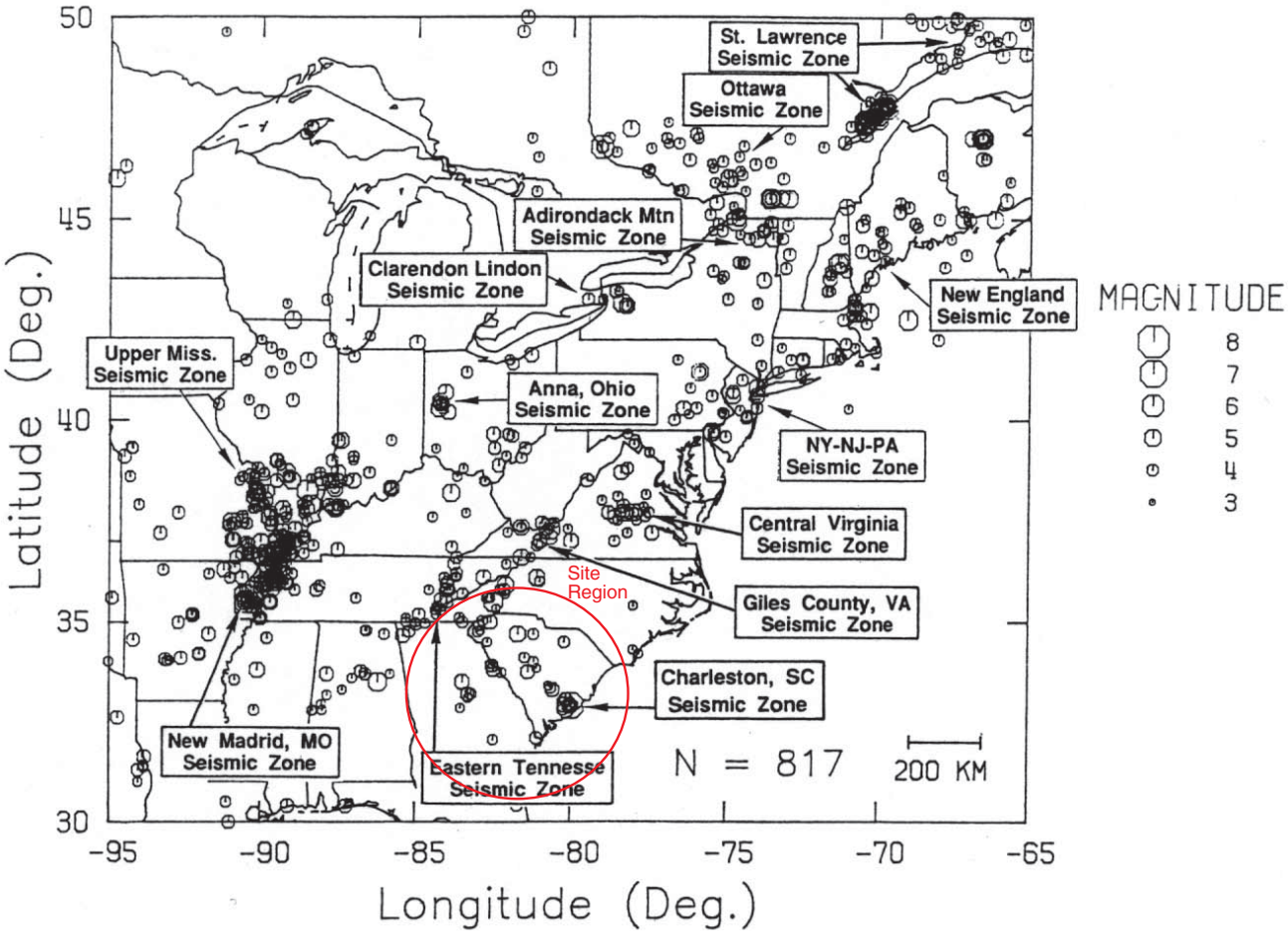


**Figure 2.1-15 Seismic Source Zones and Seismicity in Central and Eastern North America**

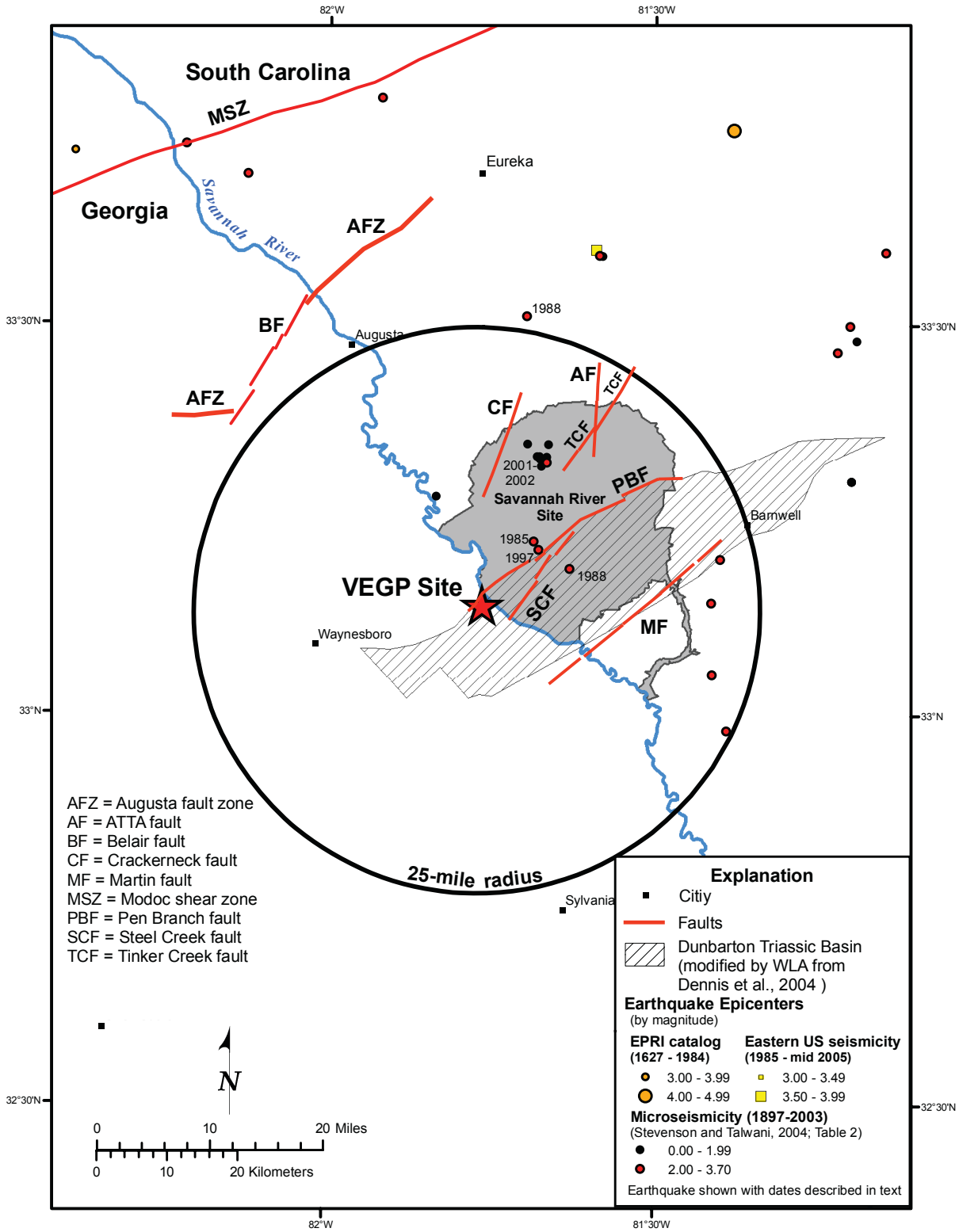


**Figure 2.1-16 Site Vicinity Tectonic Features and Seismicity**

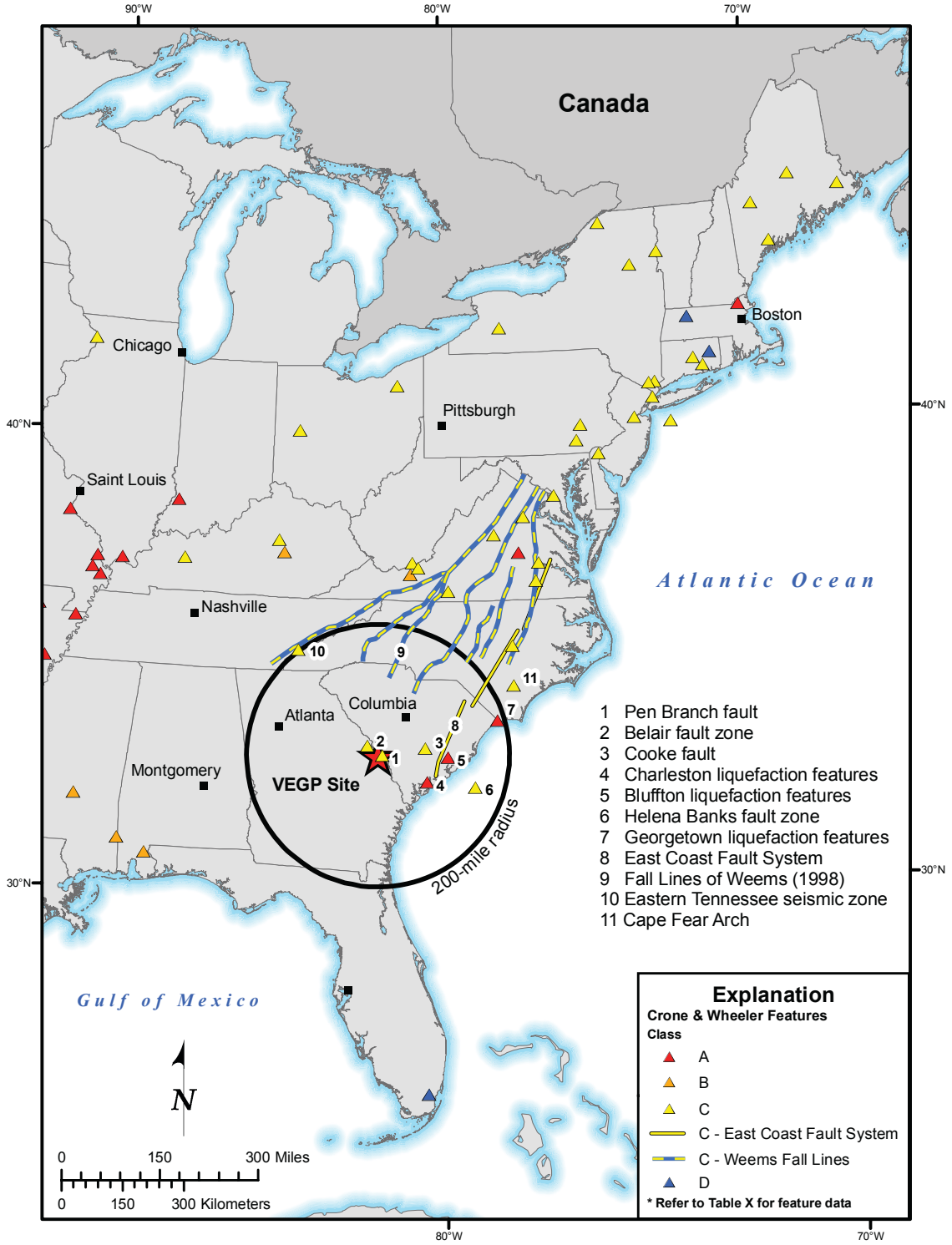


**Figure 2.1-17 Potential Quarternary Features Map**

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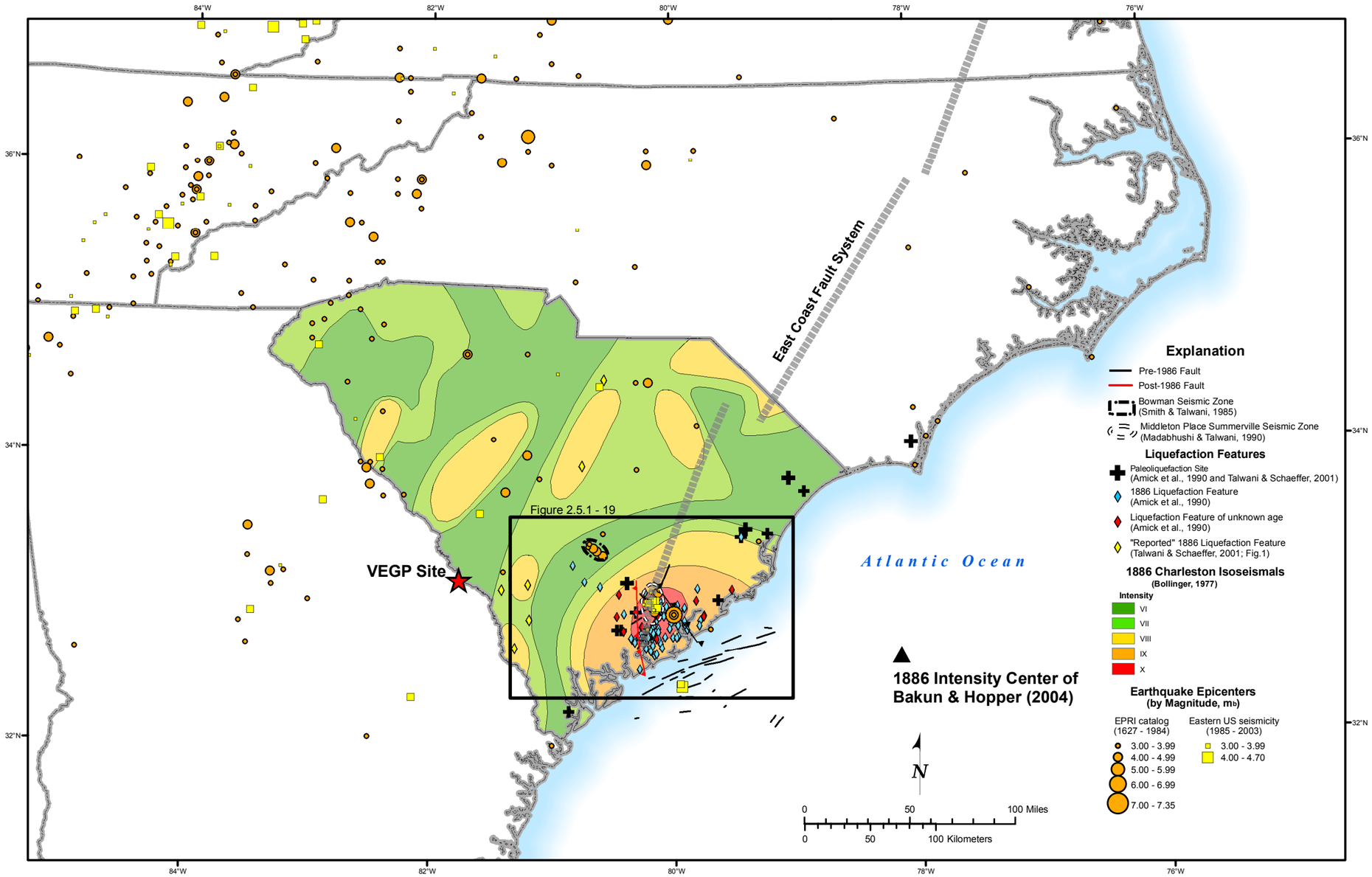


**Figure 2.5.1-18 Regional Charleston Tectonic Features**

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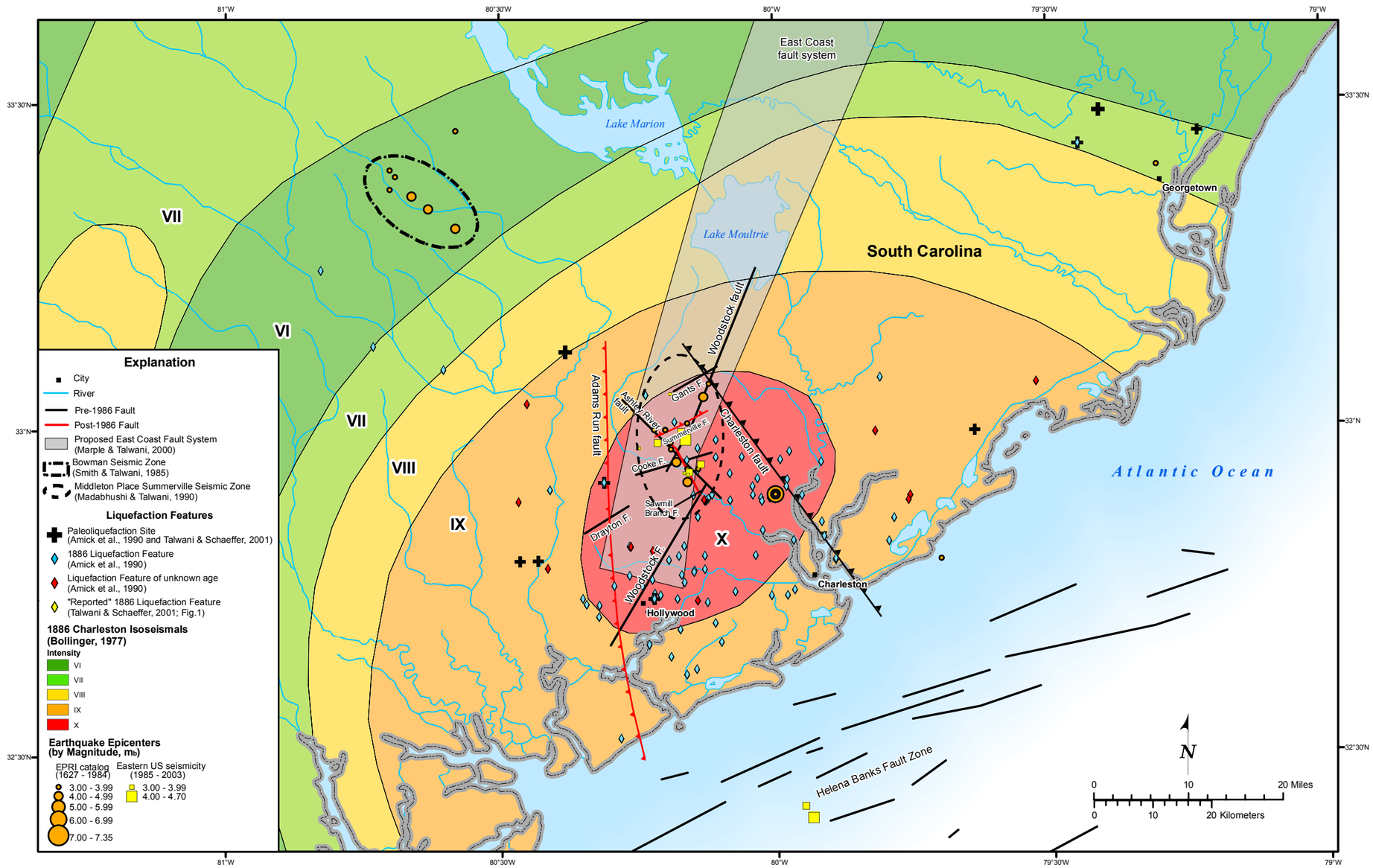


**Figure 2.5.1-19 Local Charleston Tectonic Features**

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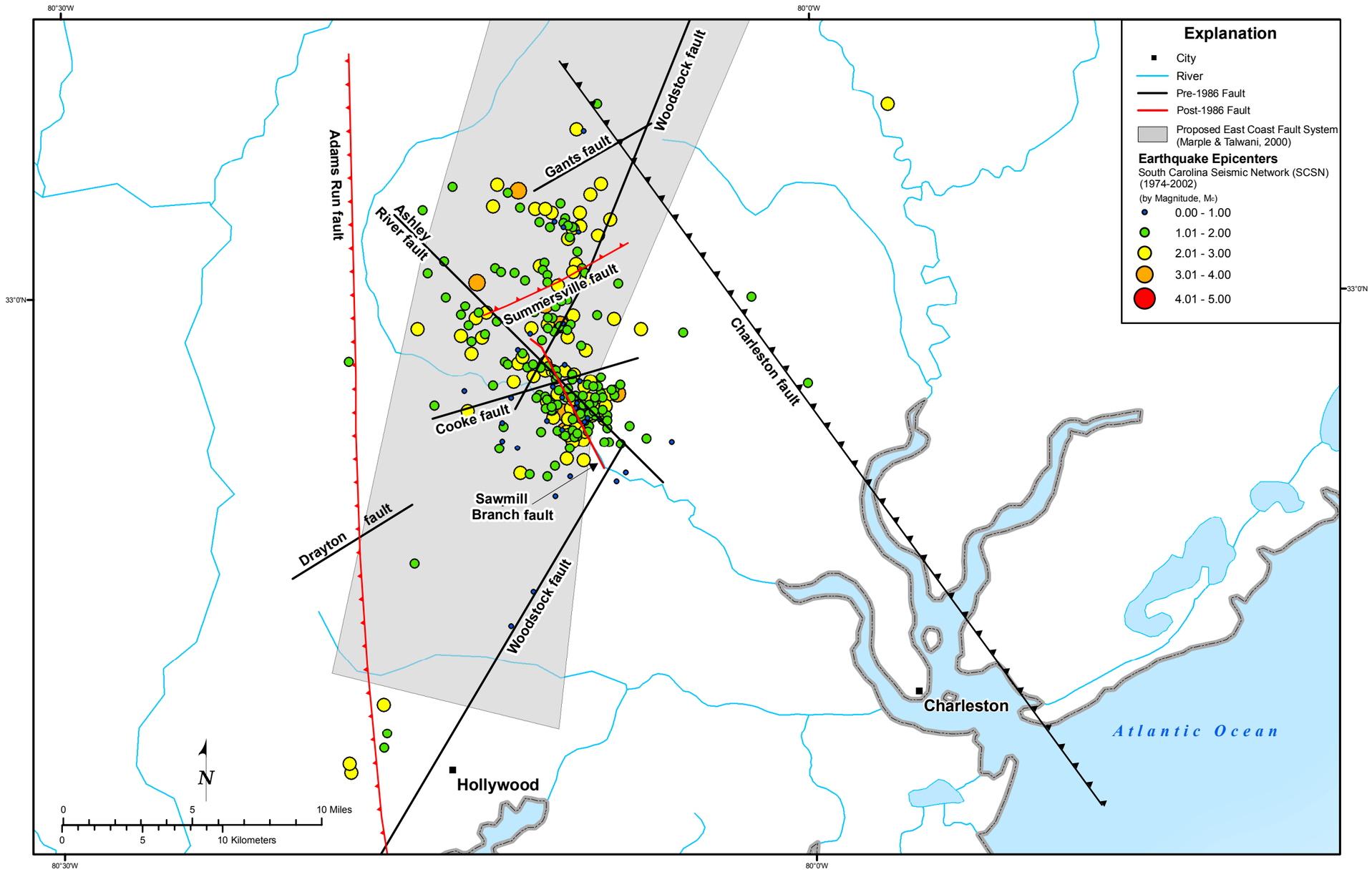


**Figure 2.5.1-20 Local Charleston Seismicity**

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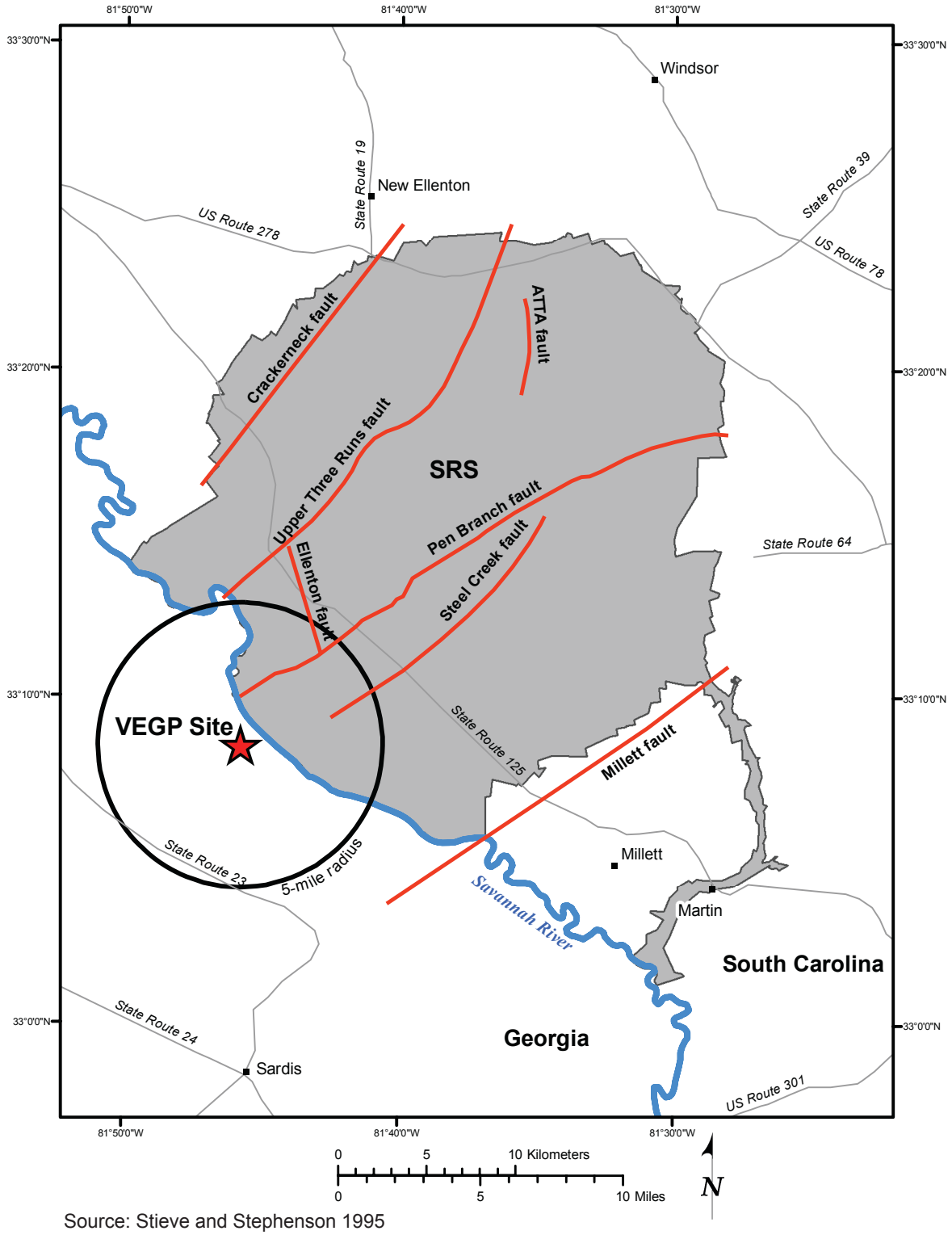
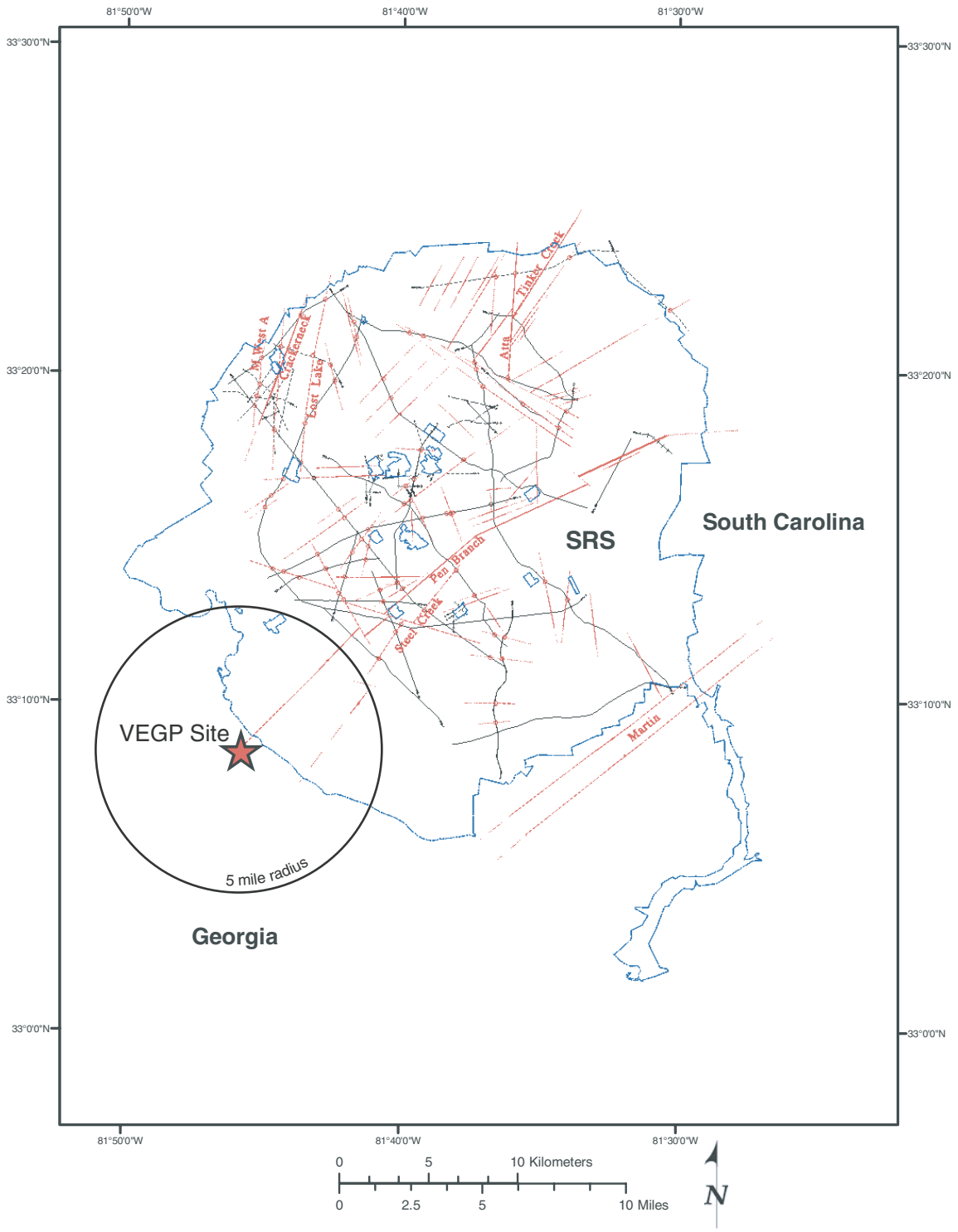


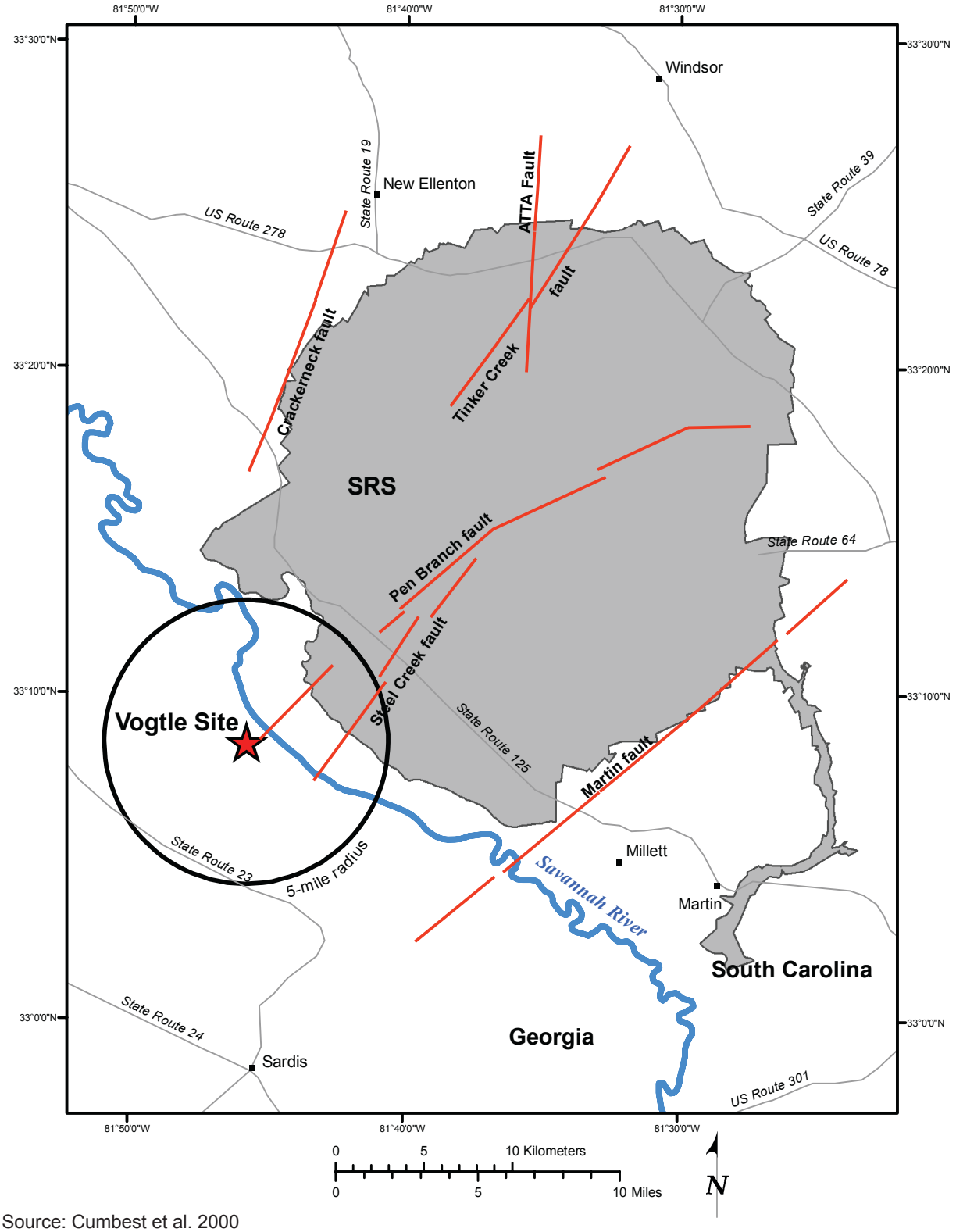

Source: Stieve and Stephenson 1995

**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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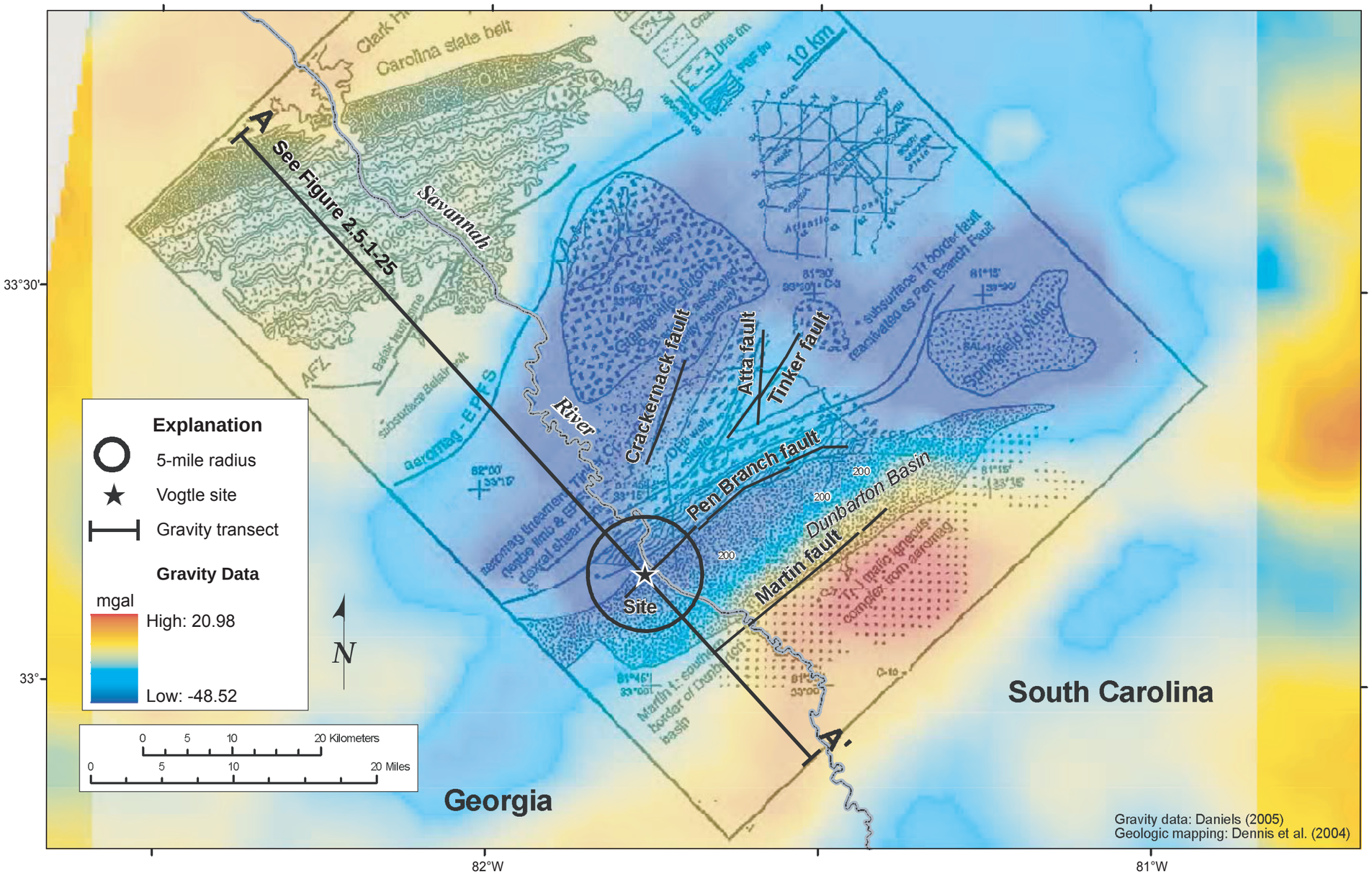


**Figure 2.5.1-24 Gravity Field in the Vicinity of the VEGP Site**

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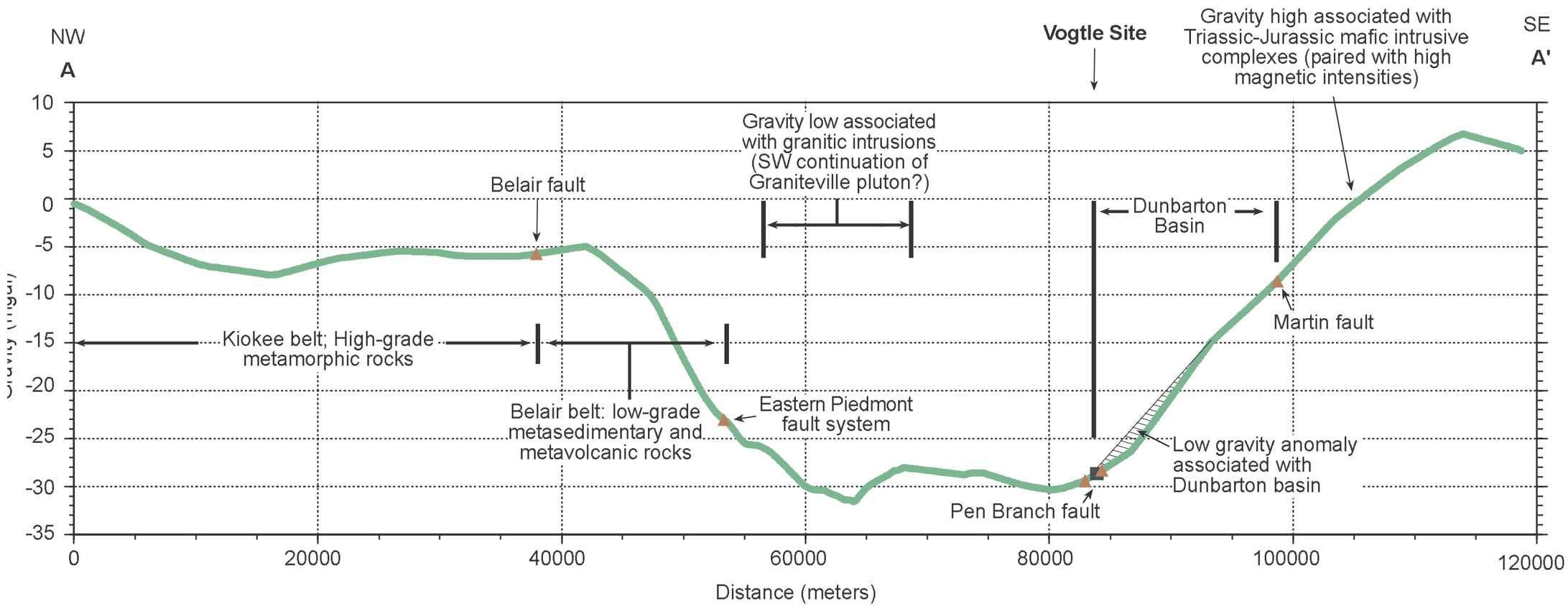


**Figure 2.5.1-25 Northwest-Southeast Gravity Profile Through the VEGP Site**

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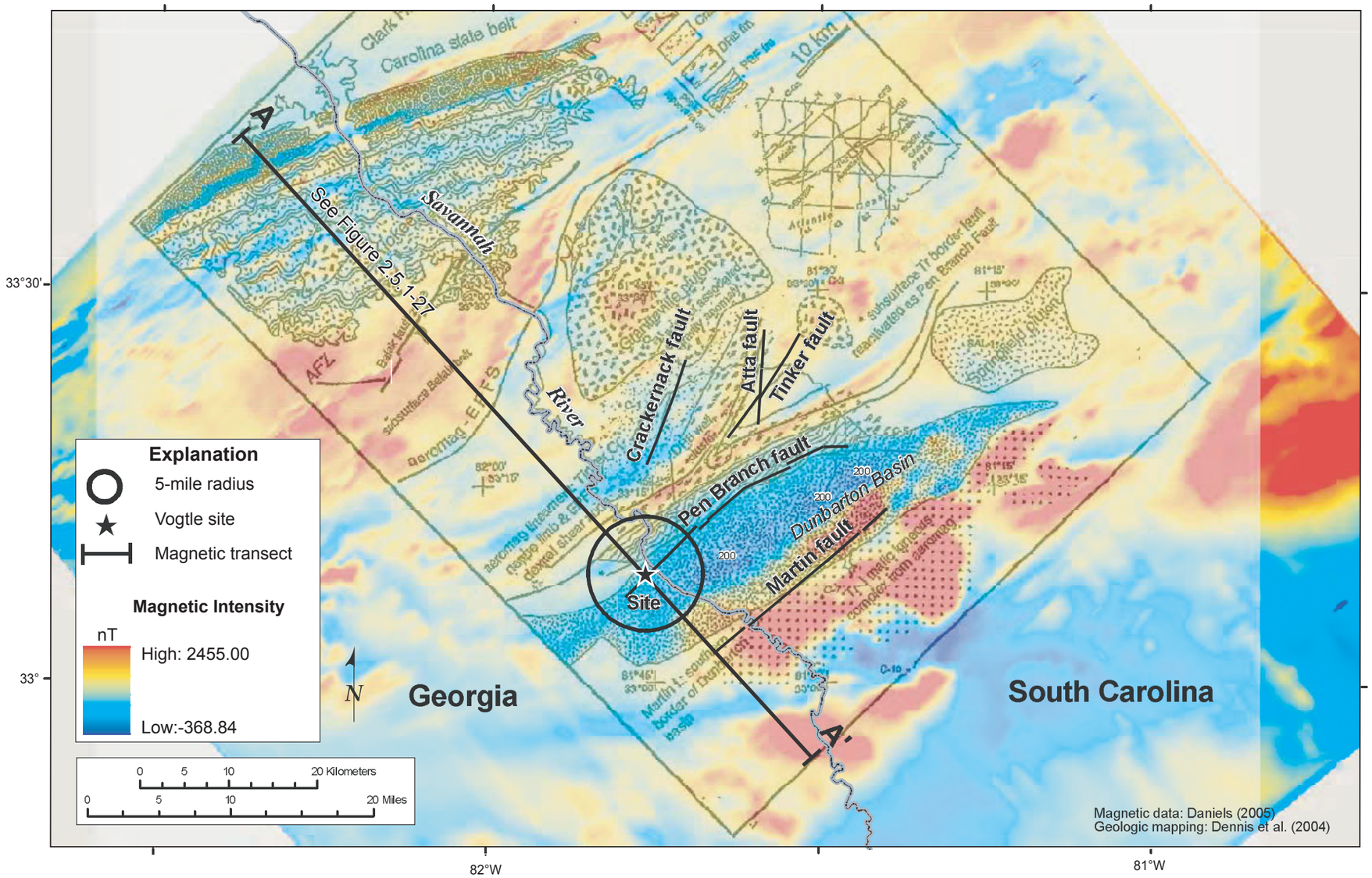


**Figure 2.5.1-26 Magnetic Field in the Vicinity of the VEGP Site**

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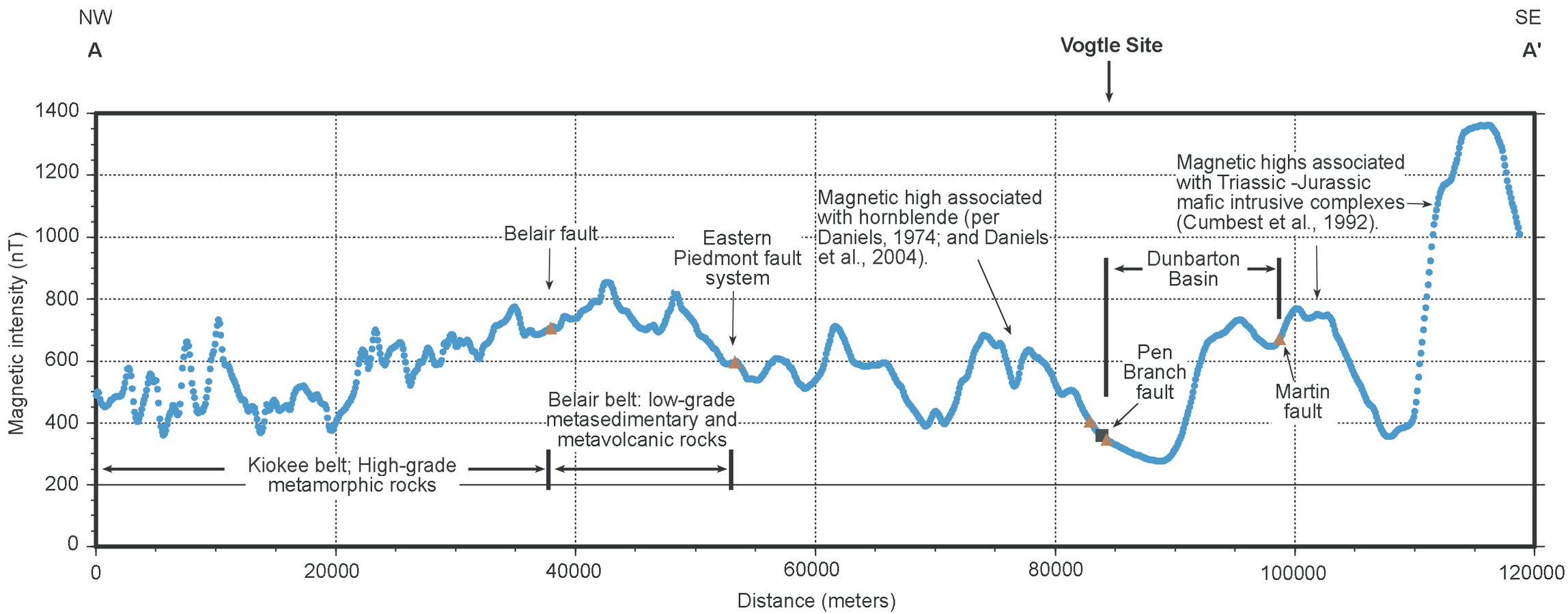


**Figure 2.5.1-27 Northwest-Southeast Profile of Magnetic Intensity Through the VEGP Site**

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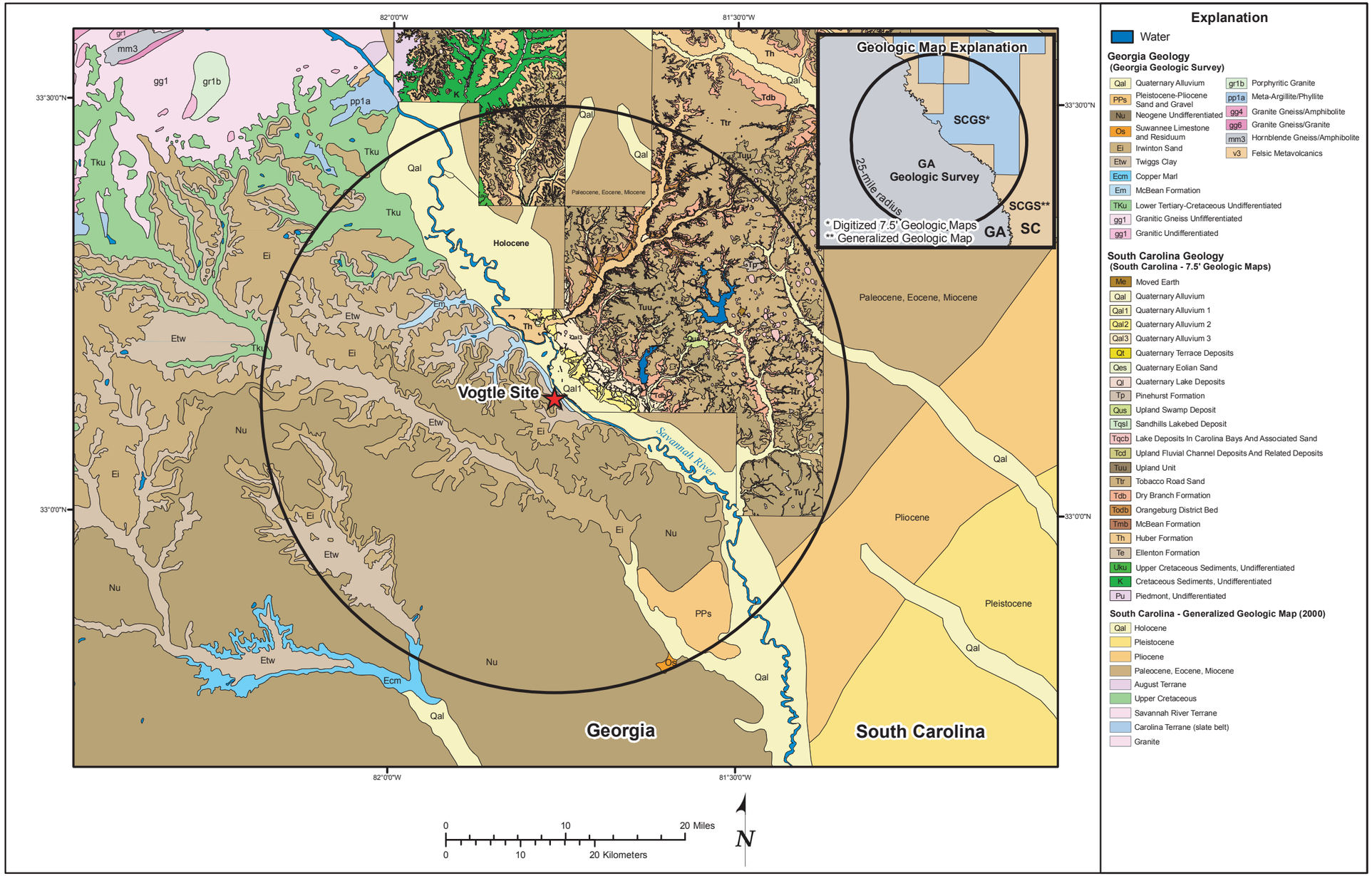


**Figure 2.5.1-28 Site Velocity Geologic Map (25-Mile Radius)**

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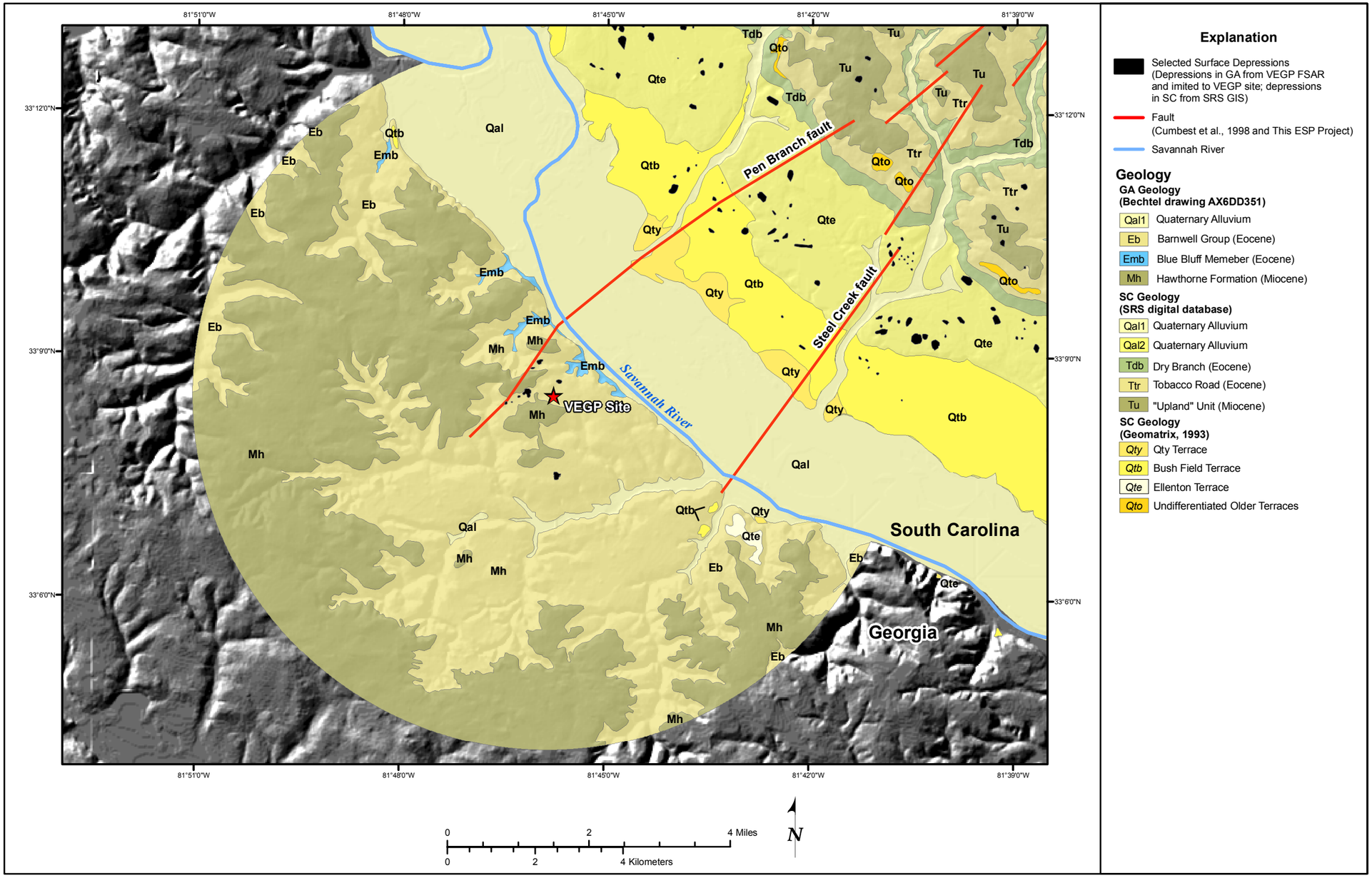


**Figure 2.5.1-29 Site Area Geologic Map (5-Mile Radius)**

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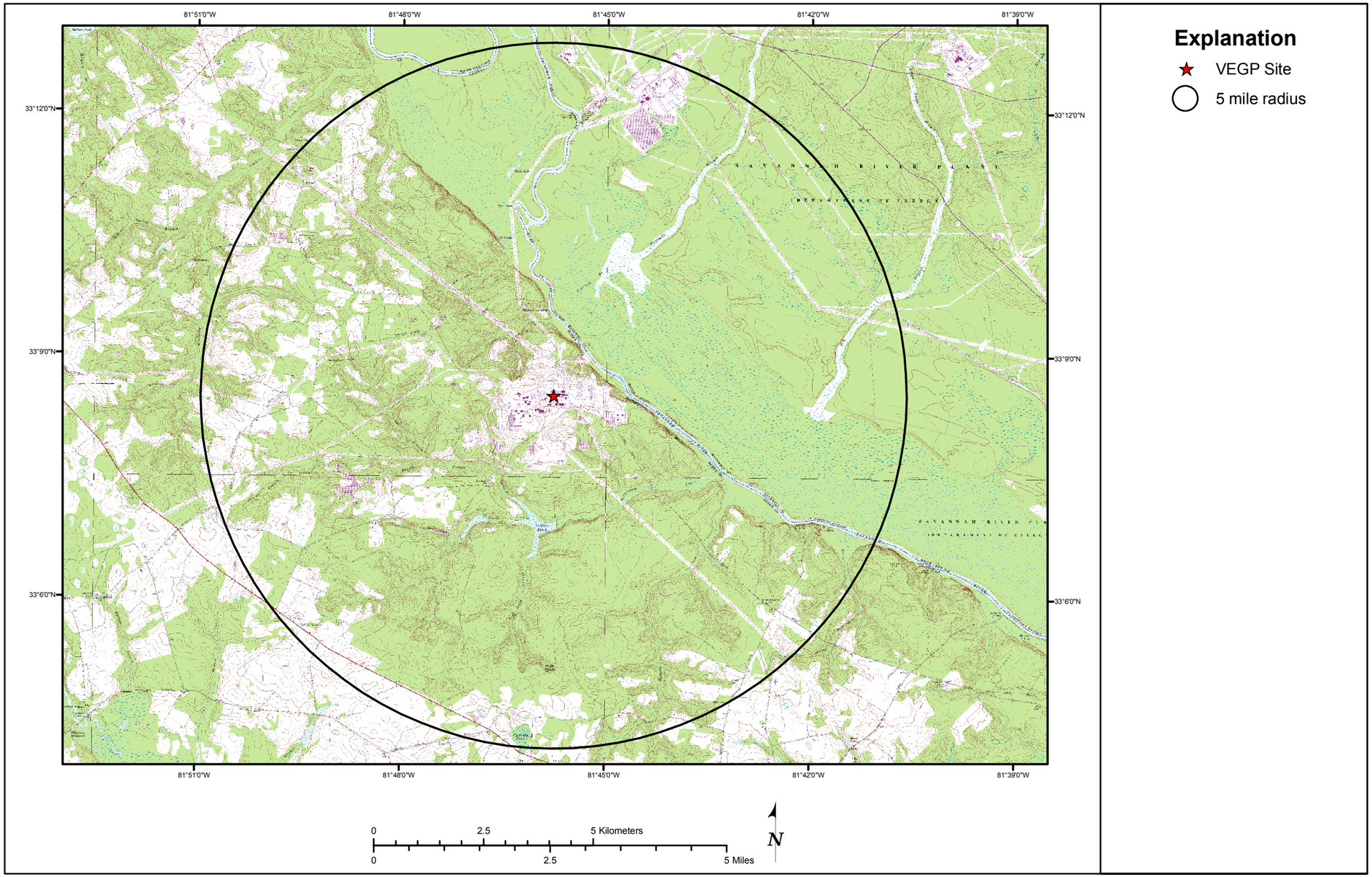


**Figure 2.5.1-30 Site Area Topographic Map (5-Mile Radius)**

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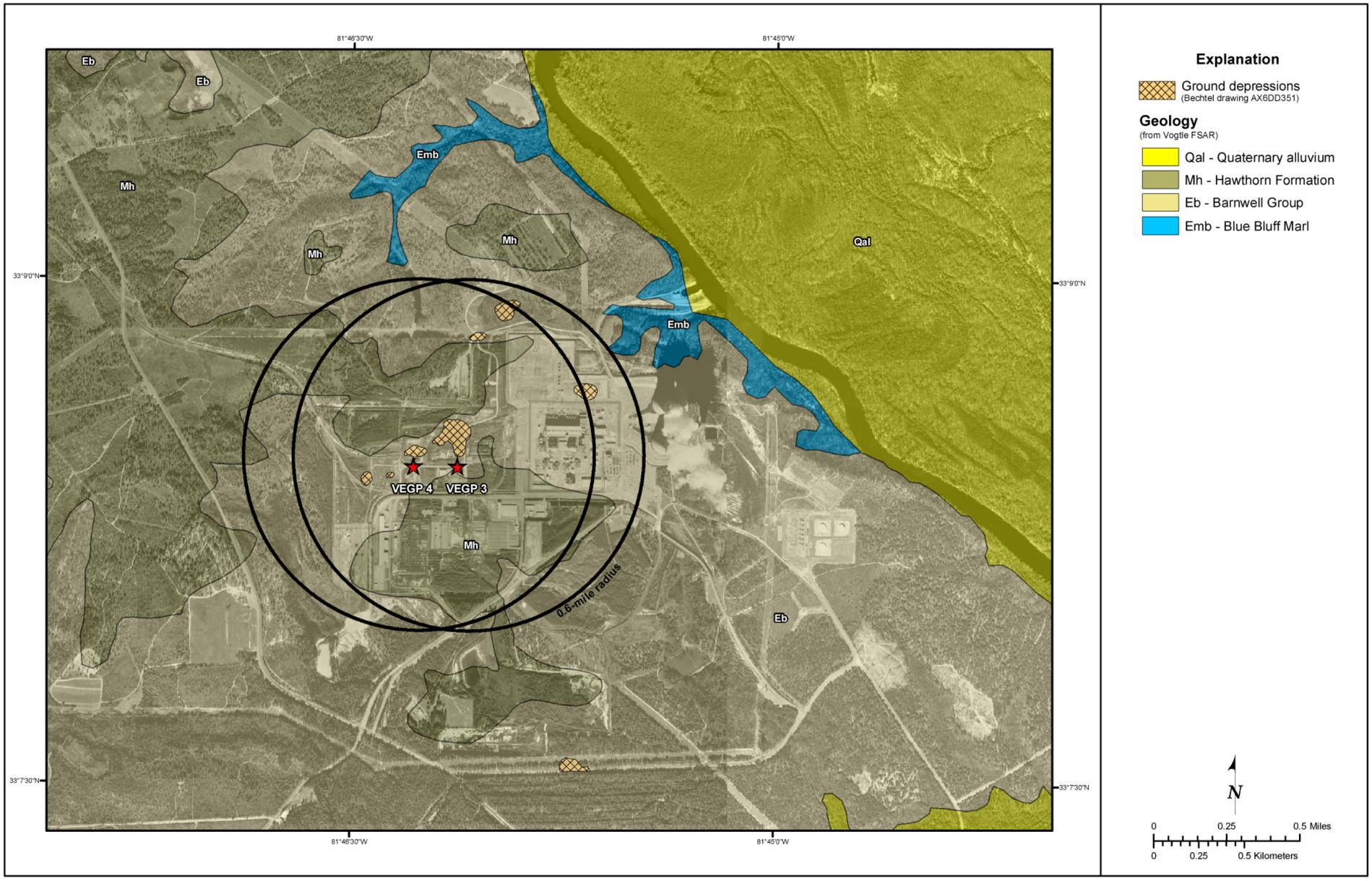


**Figure 2.5.1-31 Site Geologic Map (0.6-Mile Radius)**

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