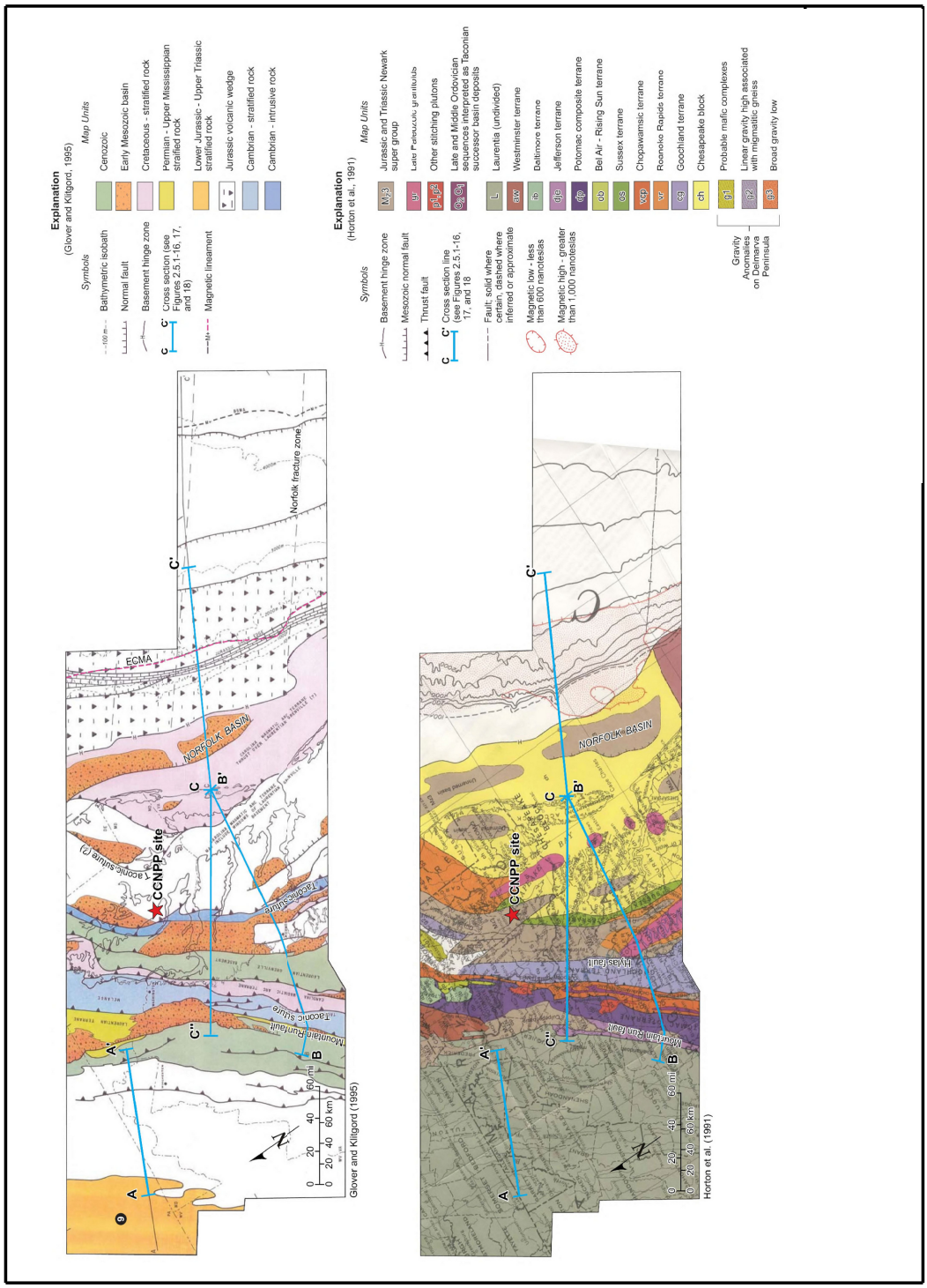

Figure 2.5-16—{Regional Strip Maps Showing Tectonostratigraphic Divisions and Regional Cross-Section Lines}

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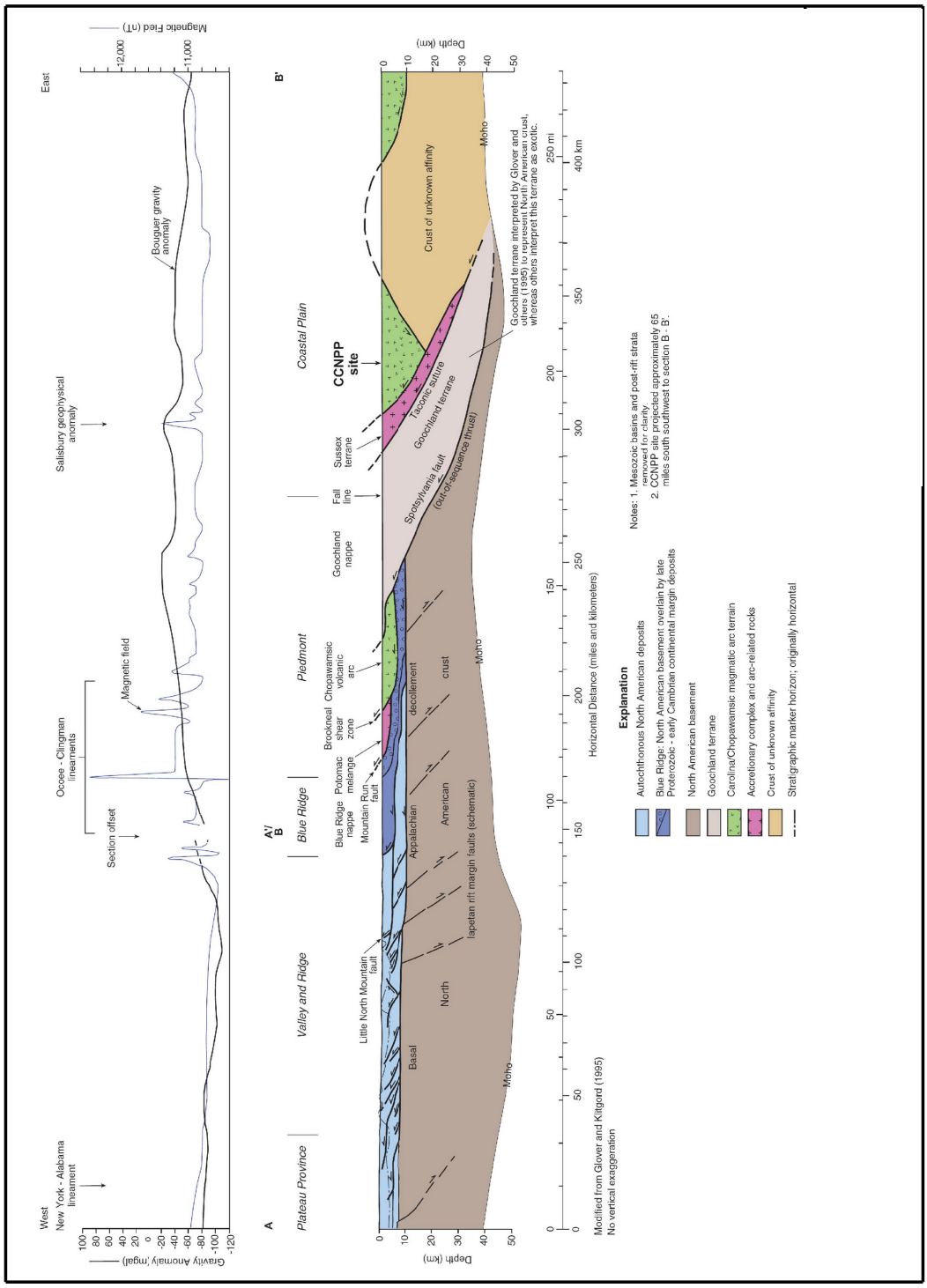
Figure 2.5-17—{Crustal-Scale Cross Section Through the Appalachian Orogen and Coastal Plain}



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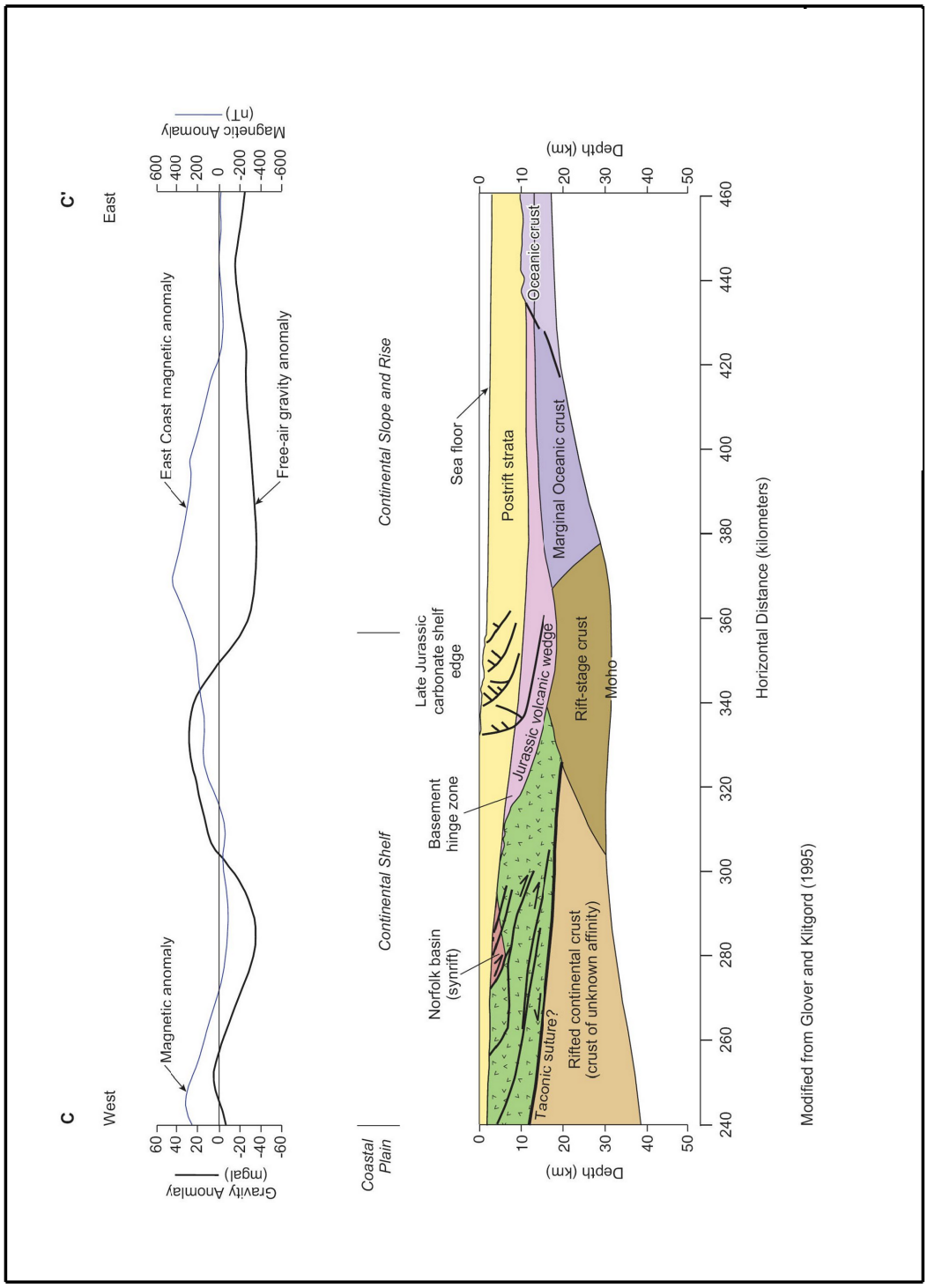

Figure 2.5-18—{Crustal-Scale Cross Section Across the Mid-Atlantic Continental Shelf, Slope and Rise}

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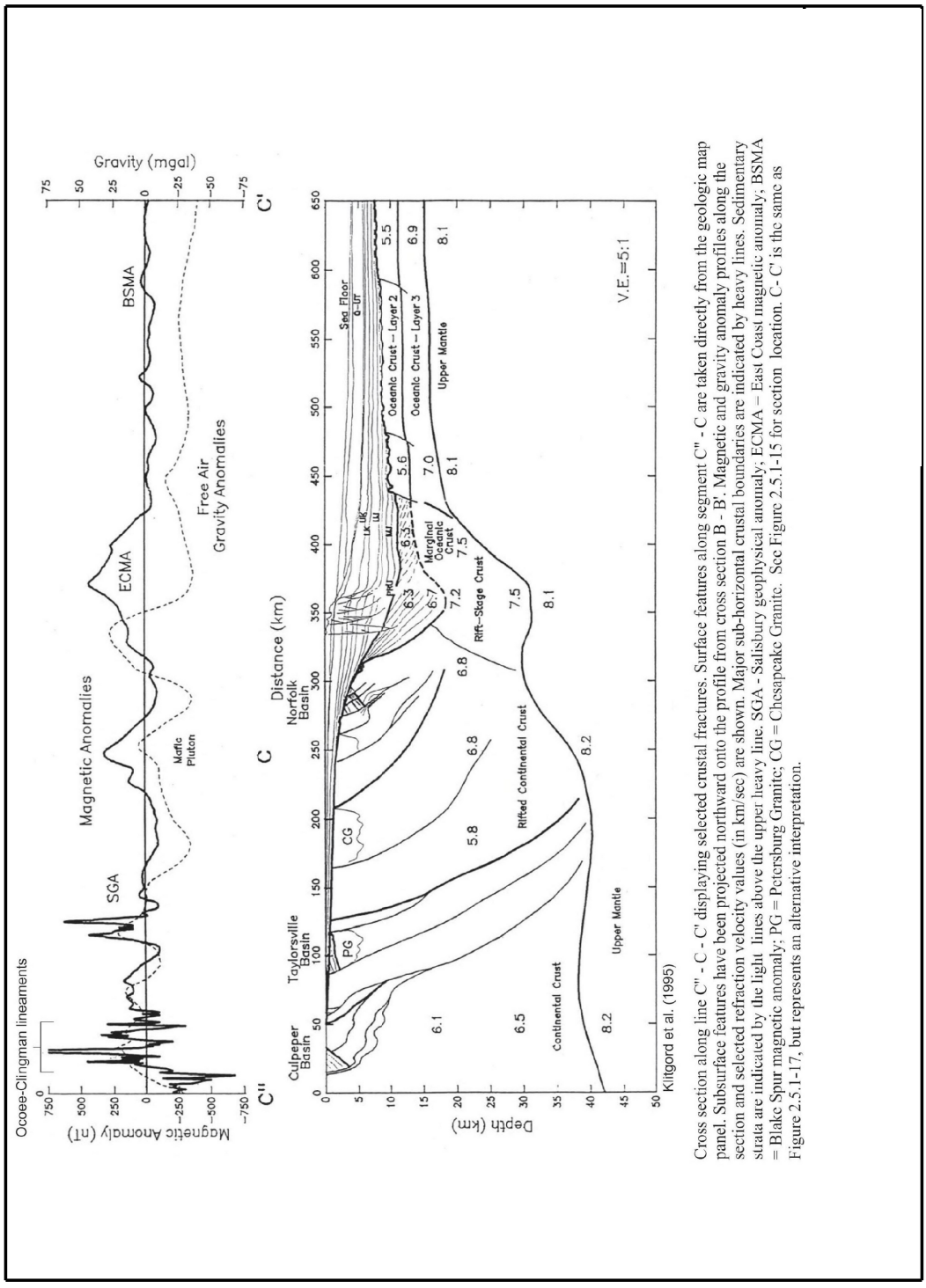
Figure 2.5-19—{Crustal-Scale Cross Section of the Mid-Atlantic Passive Margin}



Cross section along line C'' - C - C' displaying selected crustal fractures. Surface features along segment C'' - C are taken directly from the geologic map panel. Subsurface features have been projected northward onto the profile from cross section B - B'. Magnetic and gravity anomaly profiles along the section and selected refraction velocity values (in km/sec) are shown. Major sub-horizontal crustal boundaries are indicated by heavy lines. Sedimentary strata are indicated by the light lines above the upper heavy line. SGA - Salisbury geophysical anomaly; ECMA – East Coast magnetic anomaly; BSMA = Blake Spur magnetic anomaly; PG = Petersburg Granite; CG = Chesapeake Granite. See Figure 2.5.1-15 for section location. C- C' is the same as Figure 2.5.1-17, but represents an alternative interpretation.

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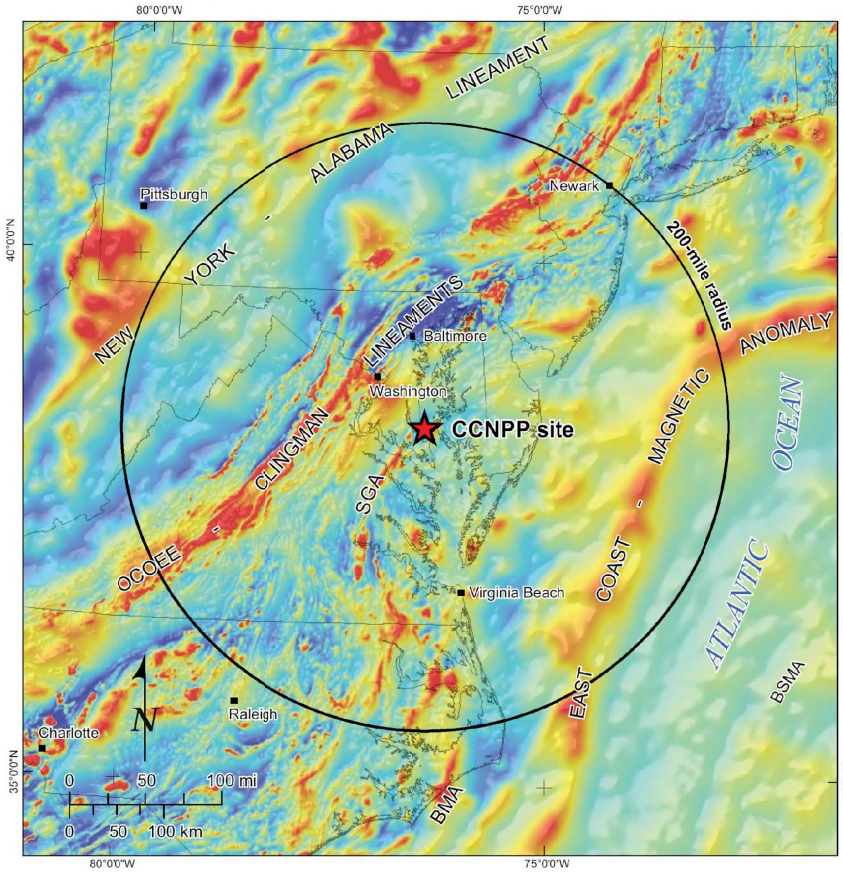
Figure 2.5-20—{Regional Magnetic Anomaly Map}



Explanation

BMA	Brunswick magnetic anomaly
BSMA	Blake Spur magnetic anomaly
SGA	Salisbury geophysical anomaly

Aeromagnetics (Bankey et al., 2002)

8215 nanoteslas

0

-1730 nanoteslas

Note: Aeromagnetic data from Bankey et al. (2002).

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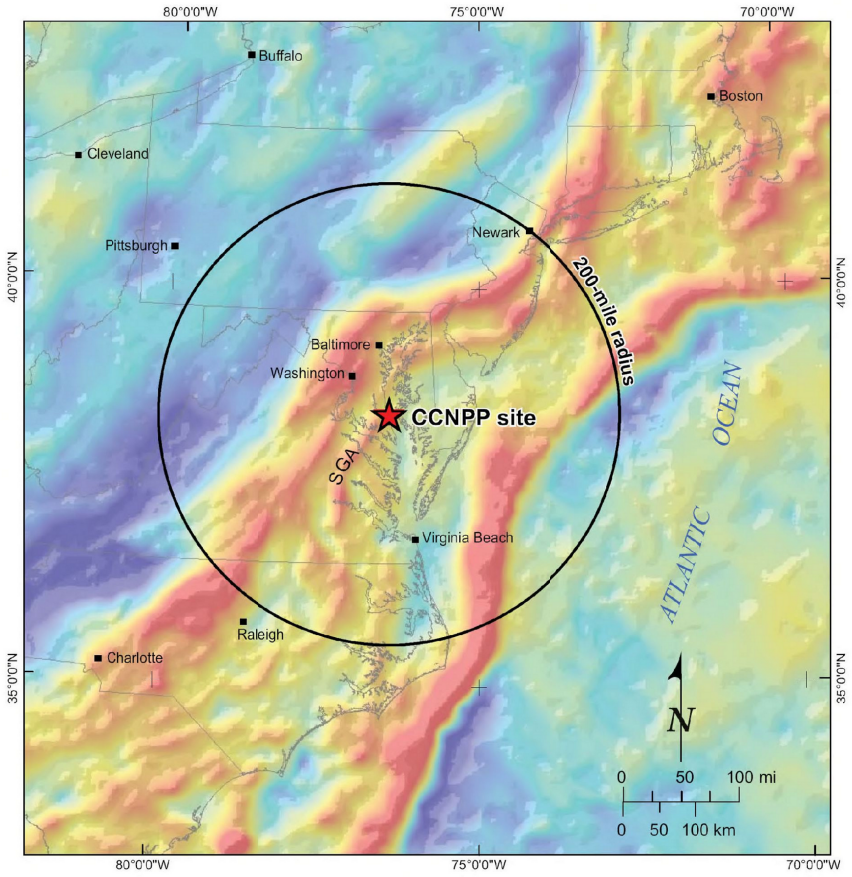
Figure 2.5-21—{Regional Gravity Anomaly Map}



Explanation

SGA Salisbury geophysical anomaly

Gravity Anomaly

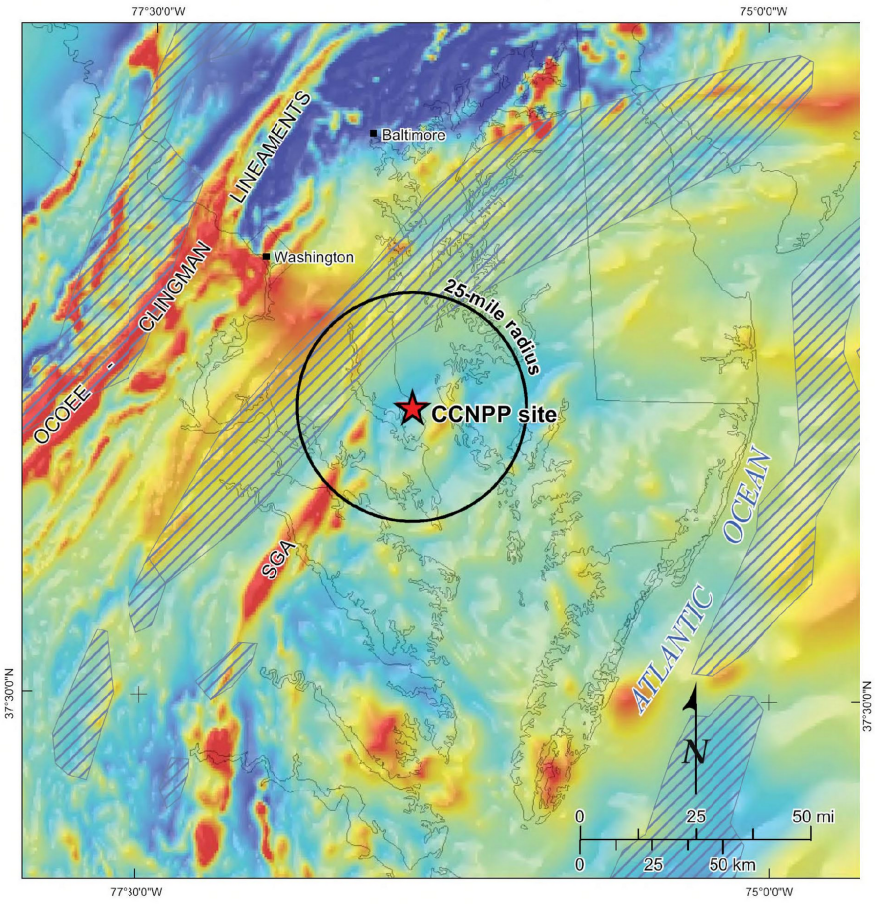
87 mgals

0

-110 mgals

Notes: 1. Gravity data from Hittelman et al. (1994).
2. Gravity measurements over land are Bouger gravity anomalies.
3. Gravity measurements over water are free-air anomalies.

Figure 2.5-22—{Chesapeake Bay Region Magnetic Anomalies with Mesozoic Basins}



Note: Aeromagnetic data from Bankey et al. (2002).

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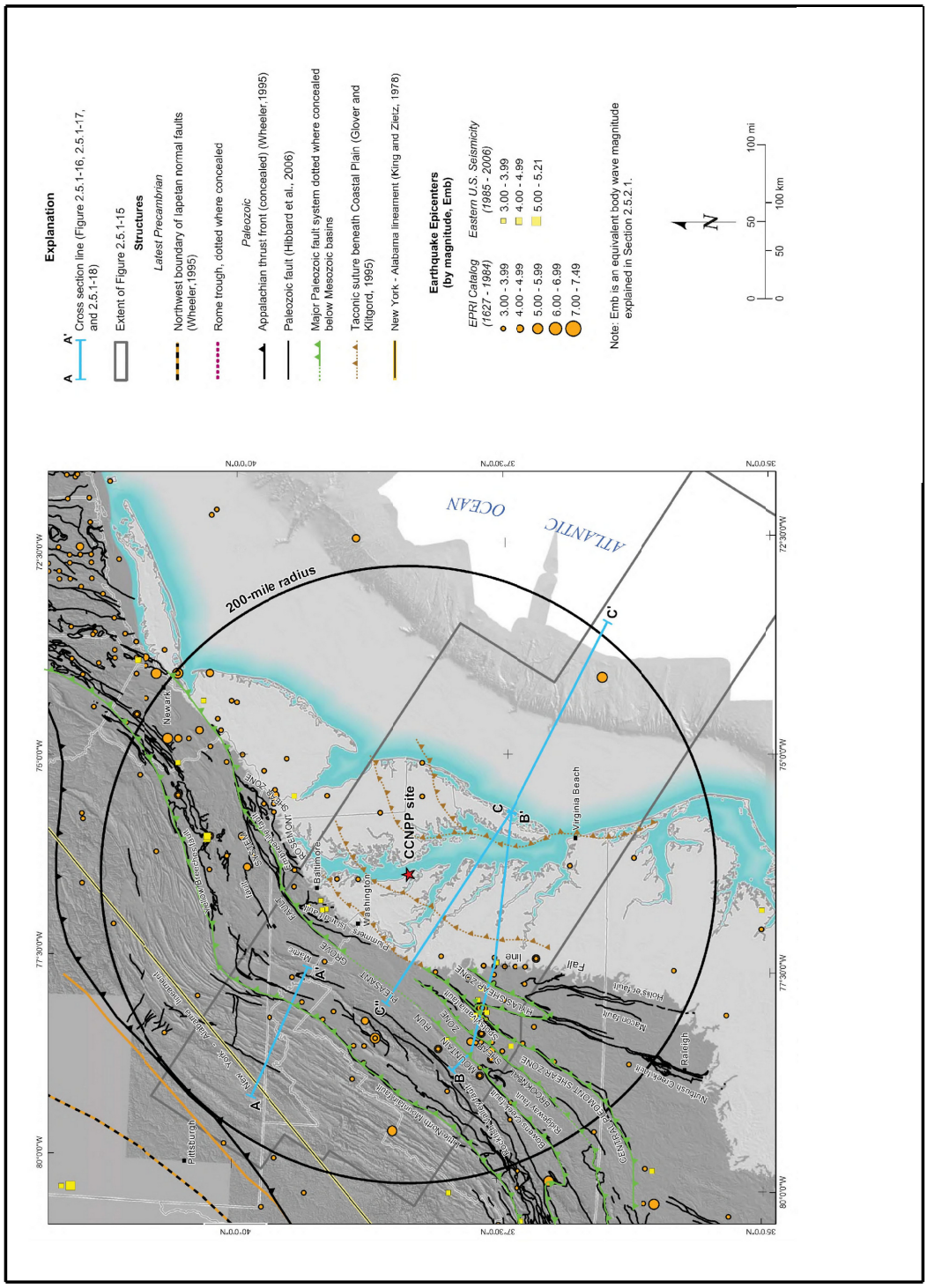

Figure 2.5-23—{Late Proterozoic and Paleozoic Tectonic Features}

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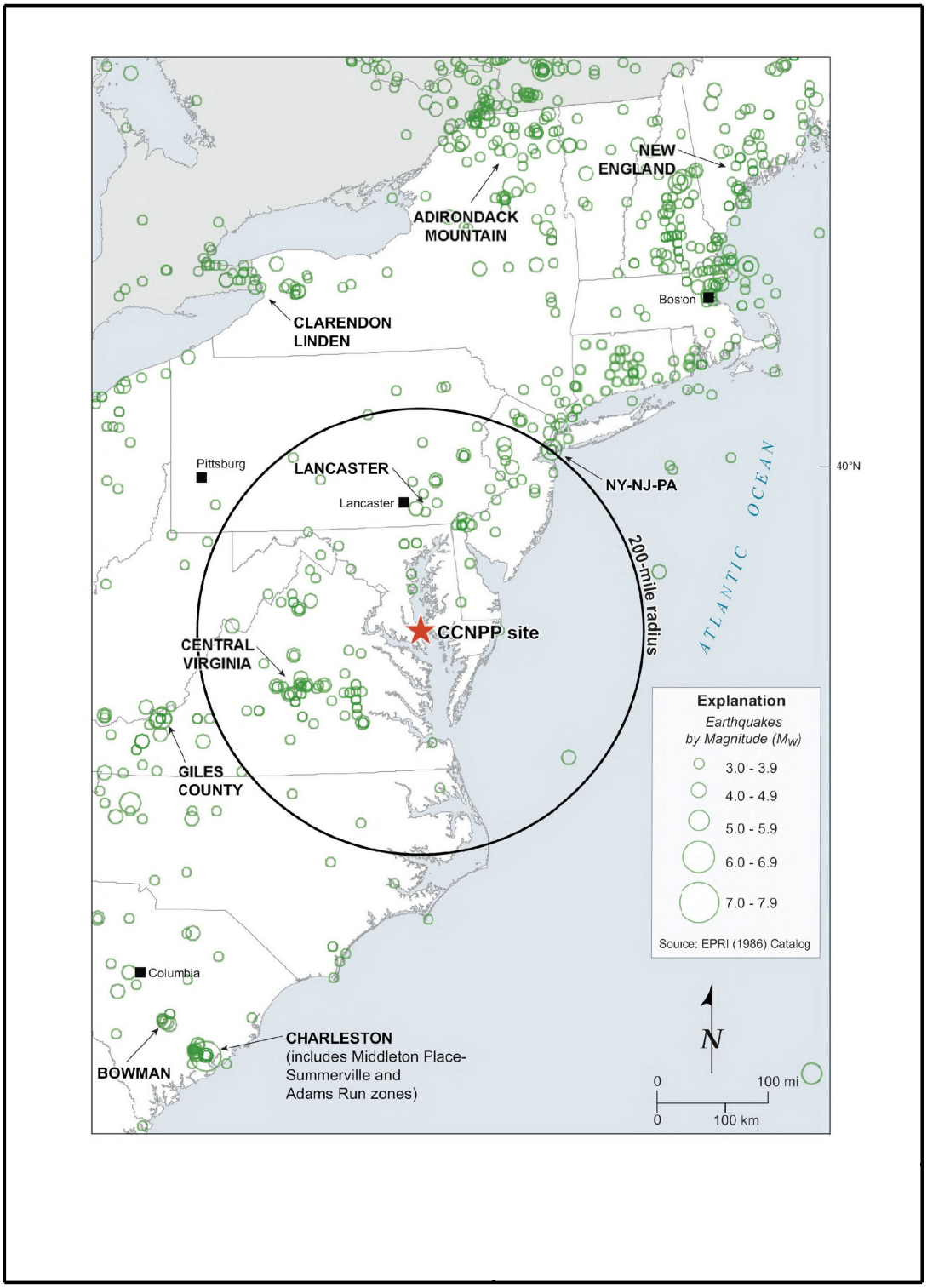
Figure 2.5-24—{Seismic Zones and Seismicity in CEUS}



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