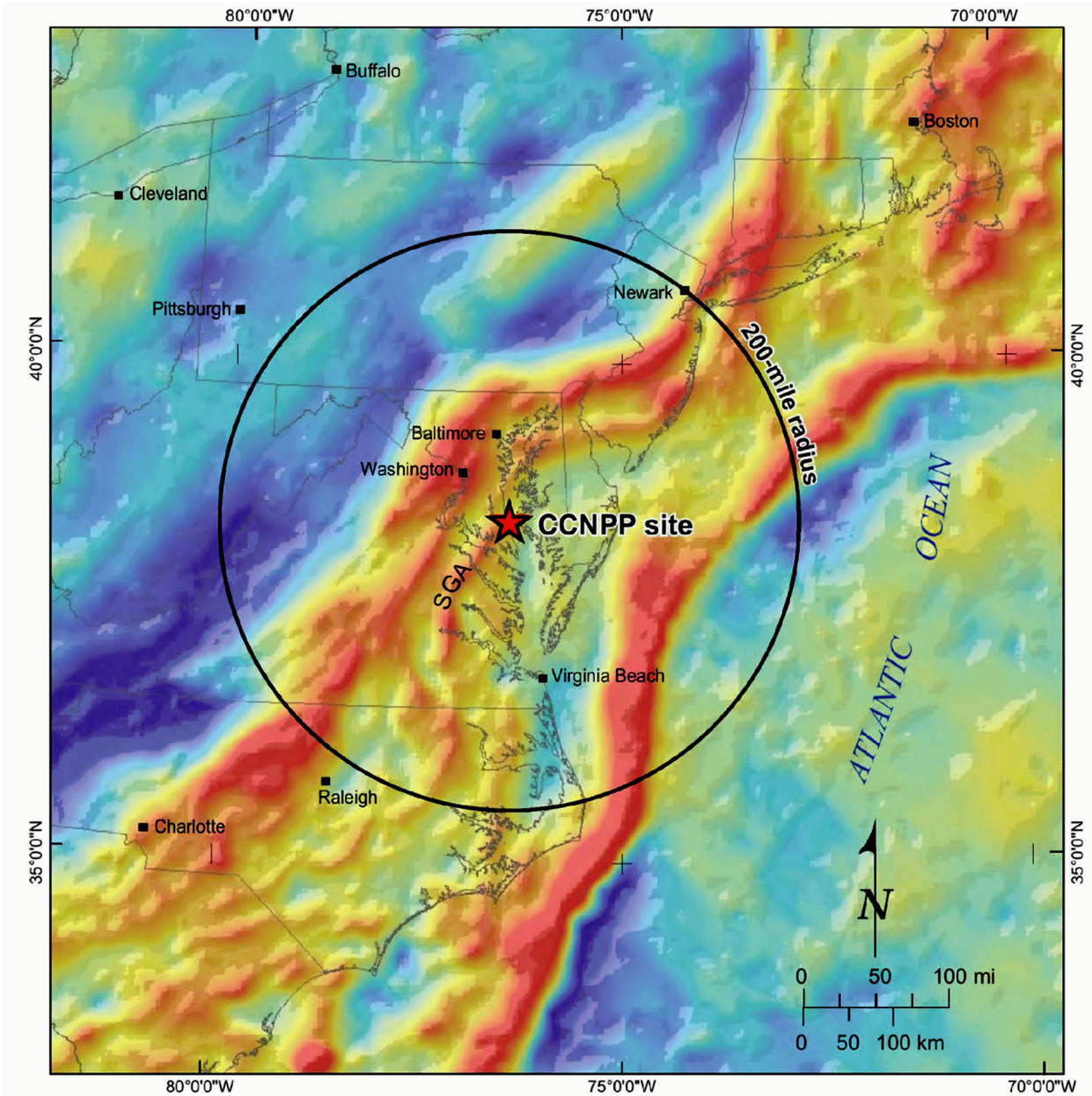


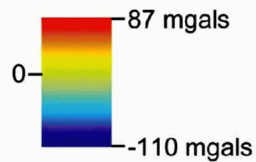
Figure 2.5-21 — {Regional Gravity Anomaly Map}



Explanation

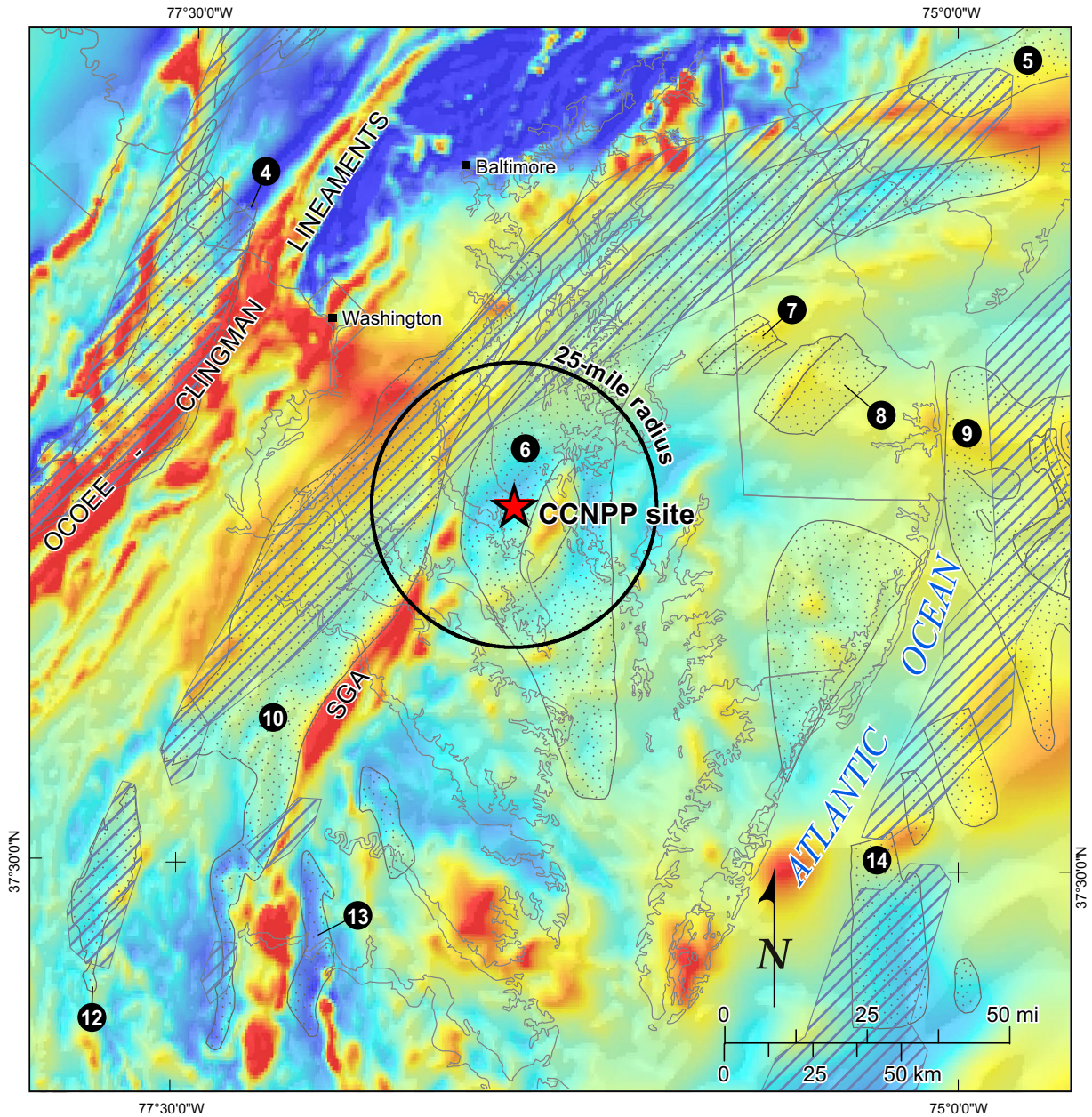
SGA Salisbury geophysical anomaly

Gravity Anomaly






- 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.

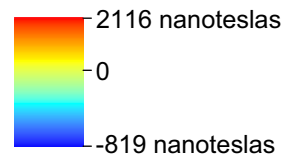
Figure 2.5-22 — {Chesapeake Bay Region Magnetic Anomalies with Mesozoic Basins}



Explanation

-  Mesozoic basin, Schliche and Olsen (1990)
-  Mesozoic basin, Benson (1992)
- SGA Salisbury geophysical anomaly
-  Mesozoic basin names listed on Figure 2.5-10 (Benson 1992)

Aeromagnetics



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

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

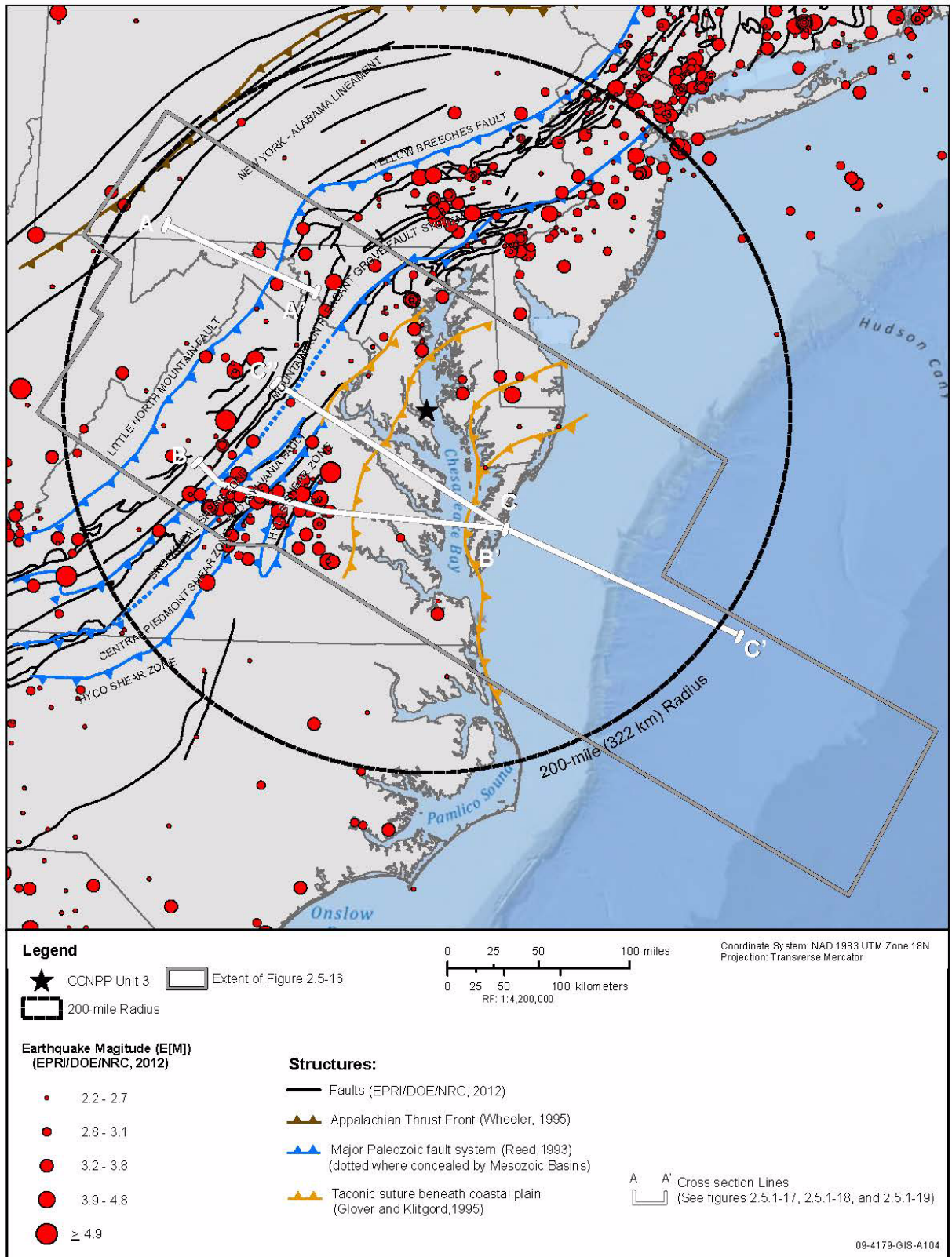


Figure 2.5-24 — {Seismic Zones and Seismicity in CEUS}

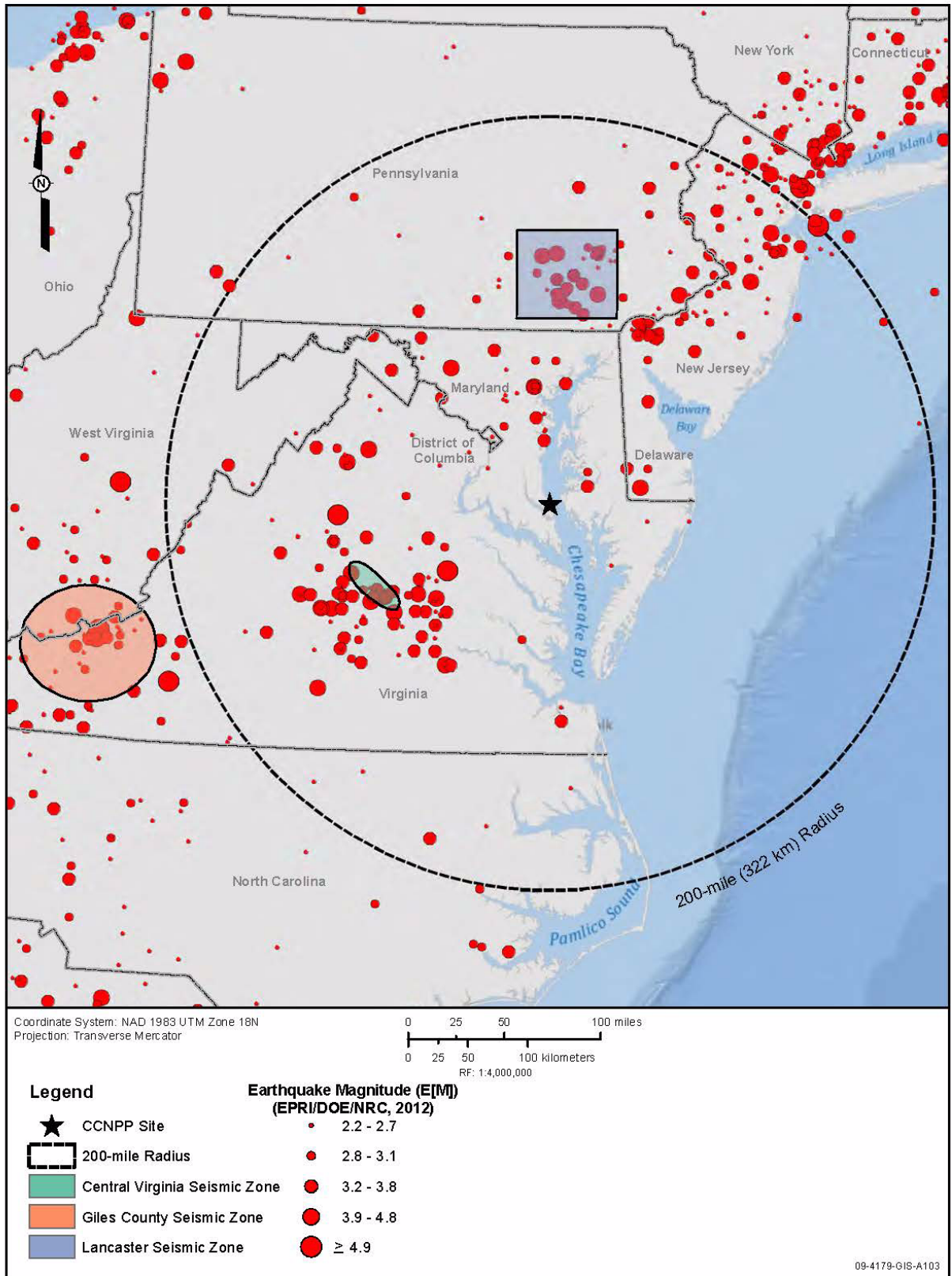


Figure 2.5-25 — {Map of Tertiary Tectonic Features}

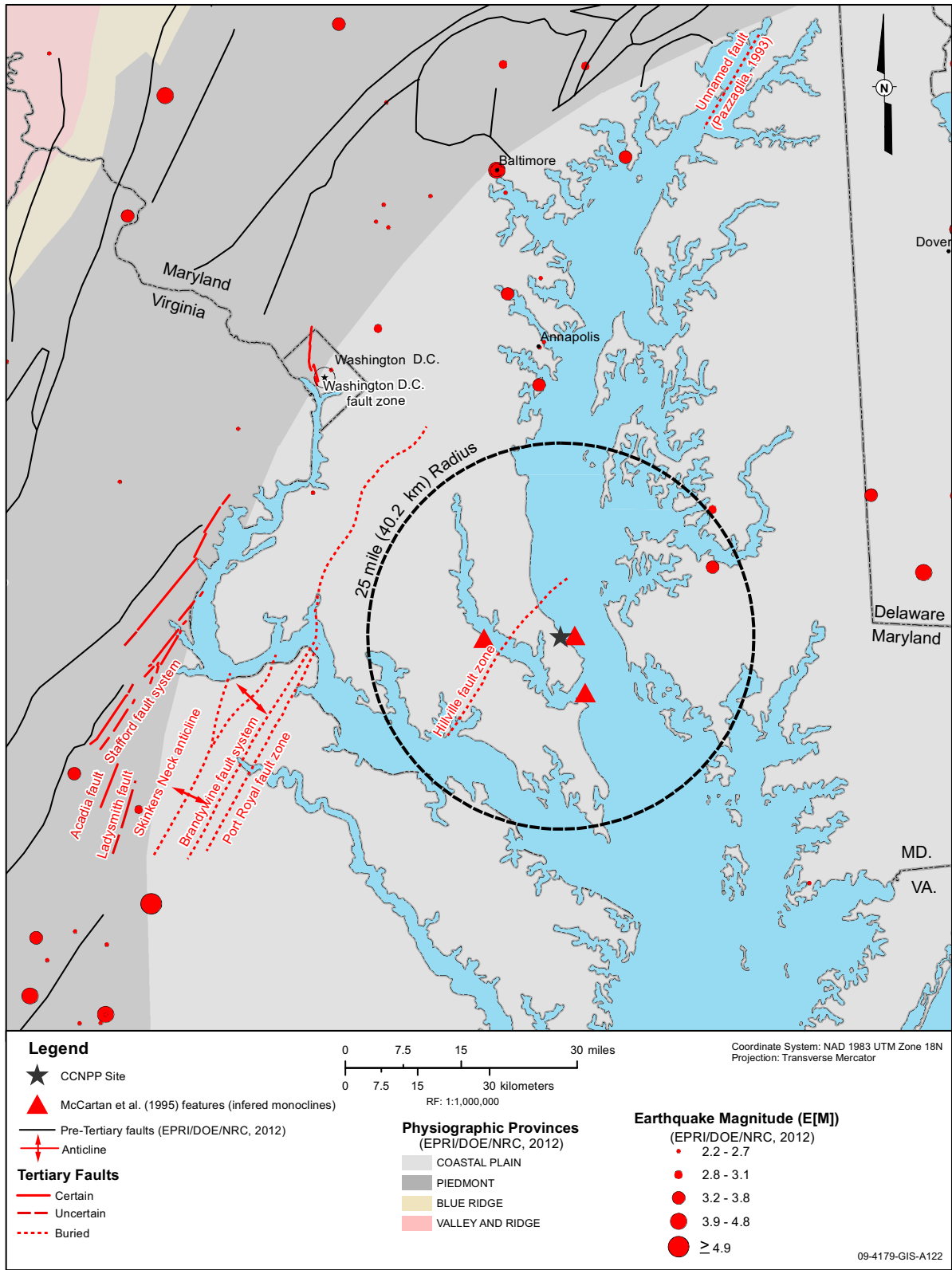
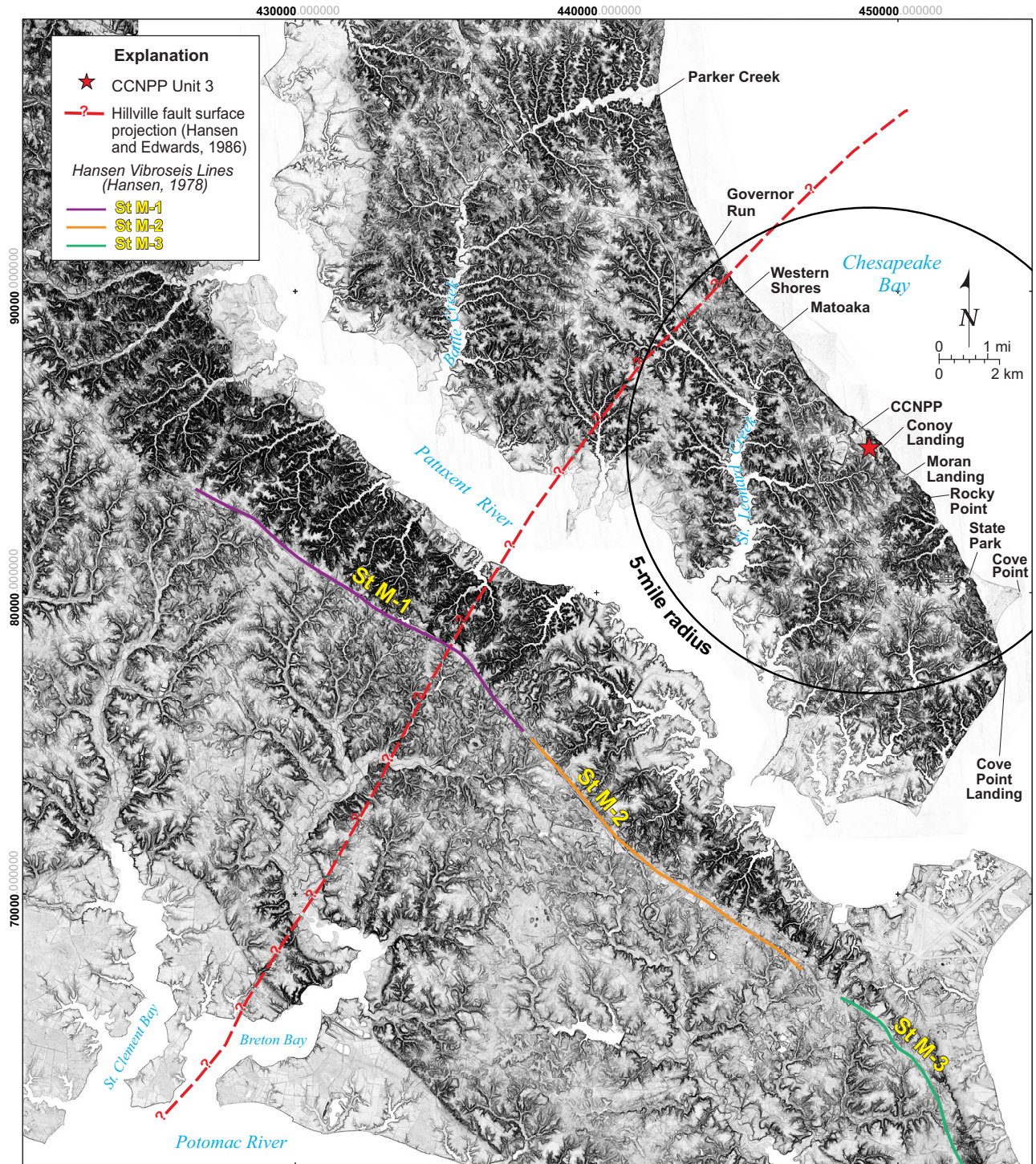


Figure 2.5-26 — {LiDAR Data for Calvert and St. Mary's Counties}



Note: LiDAR data for Calvert and St. Mary's County has a resolution of 2 meters.

Figure 2.5-27 — {Site Vicinity Geologic Map 25-Mile (40-Km) Radius}

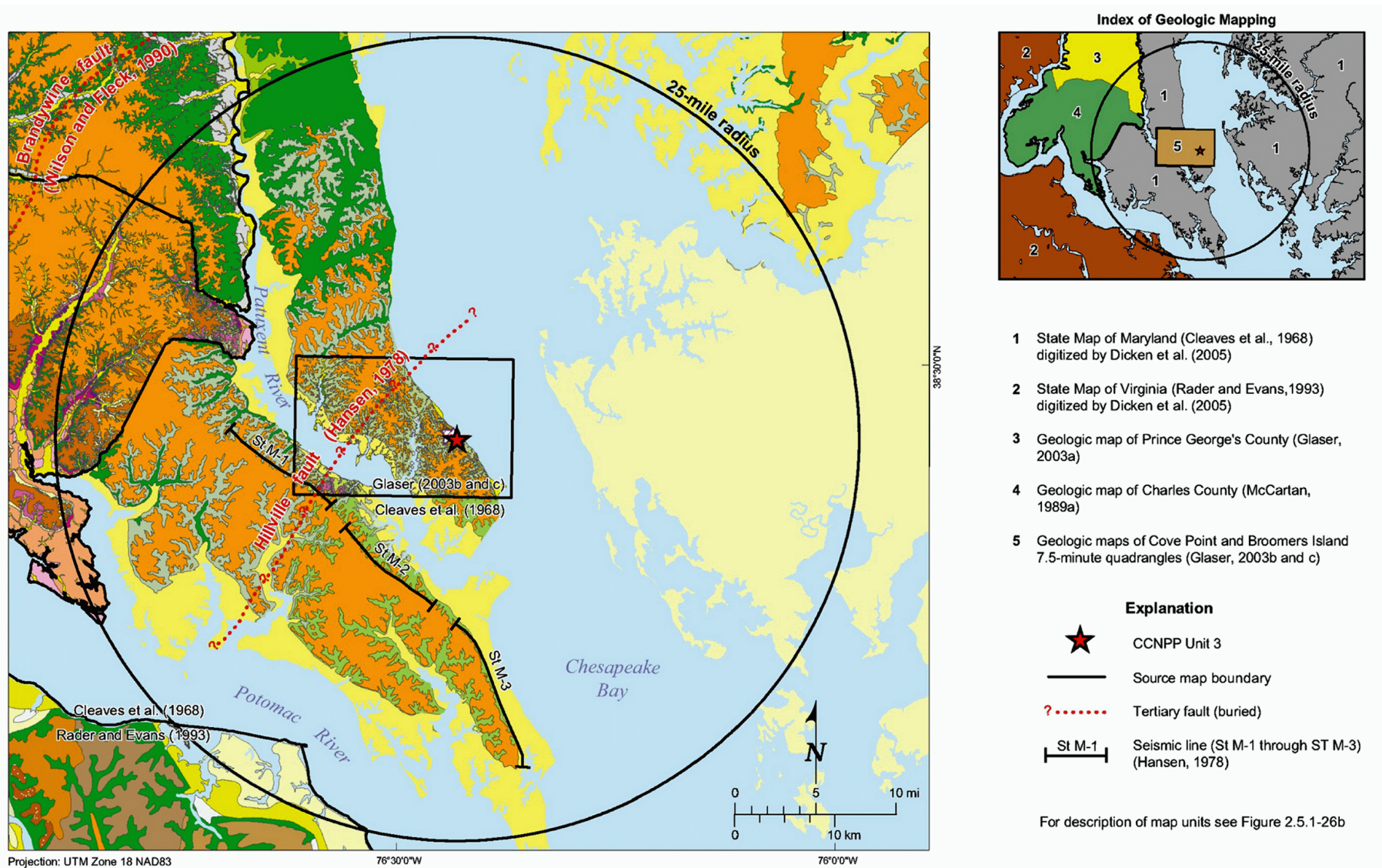


Figure 2.5-28 — {Site Vicinity Geologic Map 25-Mile (40-Km) Radius Unit Descriptions}

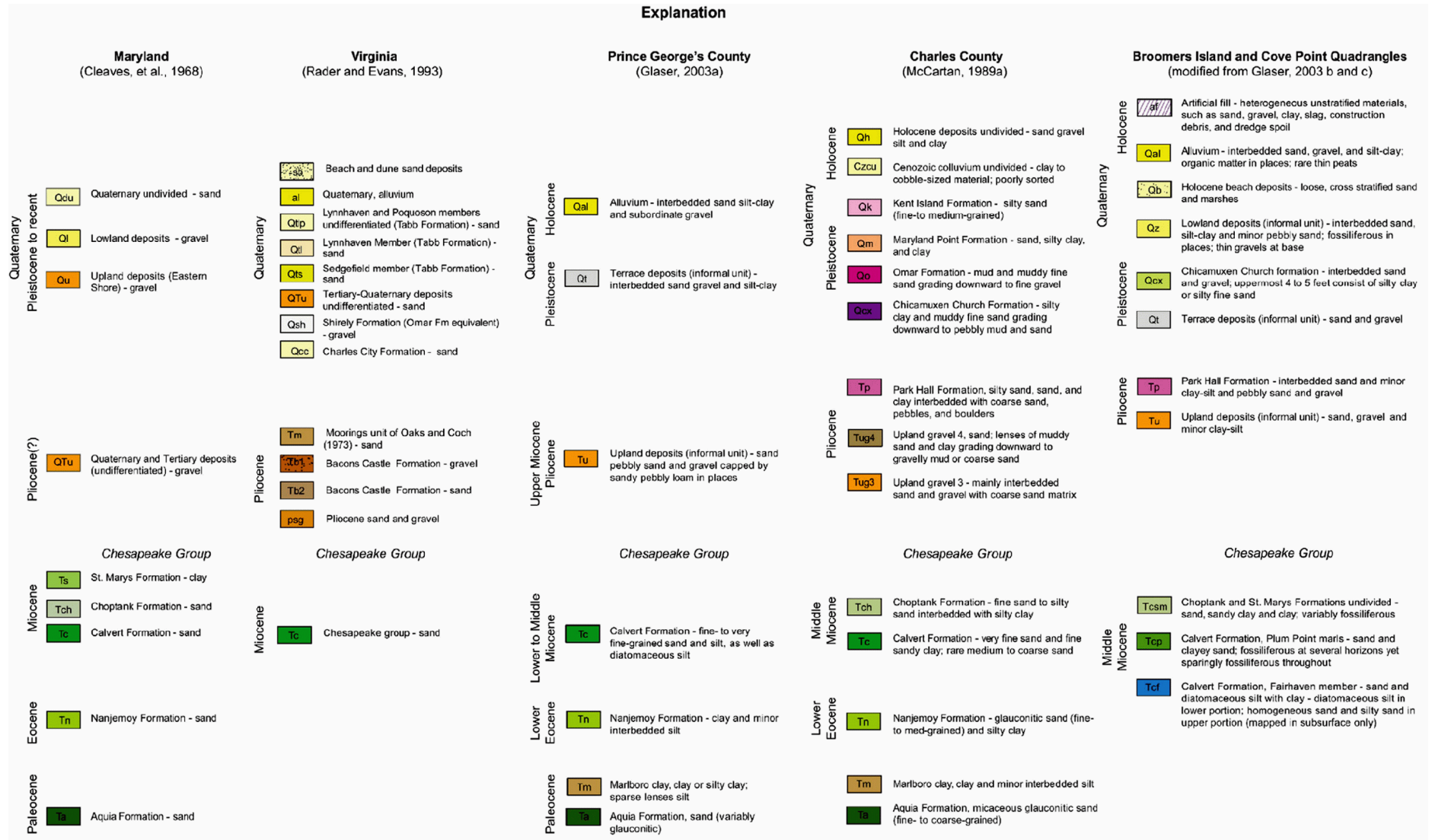


Figure 2.5-29 — {Map of Seismic Lines (A) and Channels (B)}

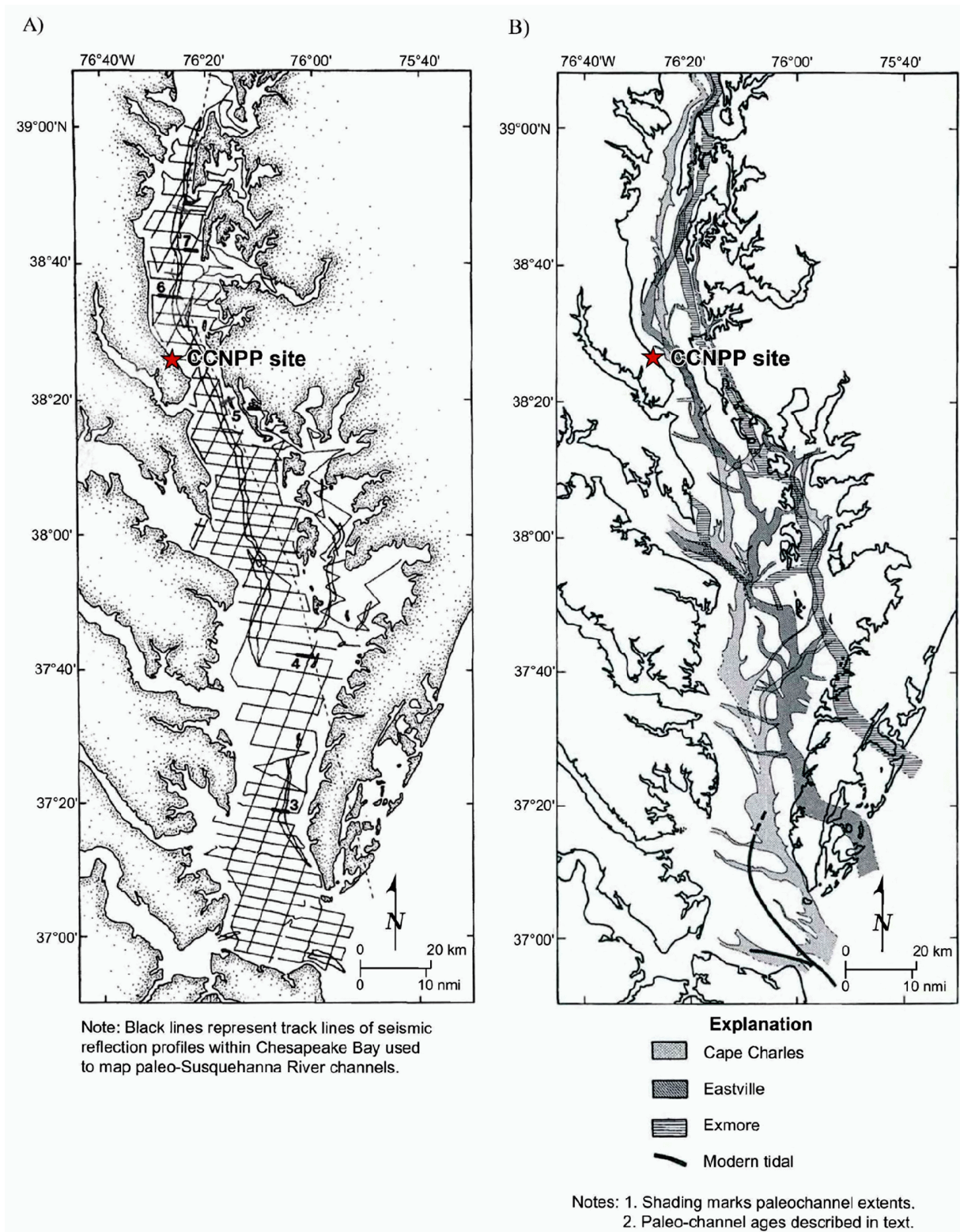


Figure 2.5-30 — {Location Map (A) and Cross Section (B) of Calvert Cliffs, Maryland}

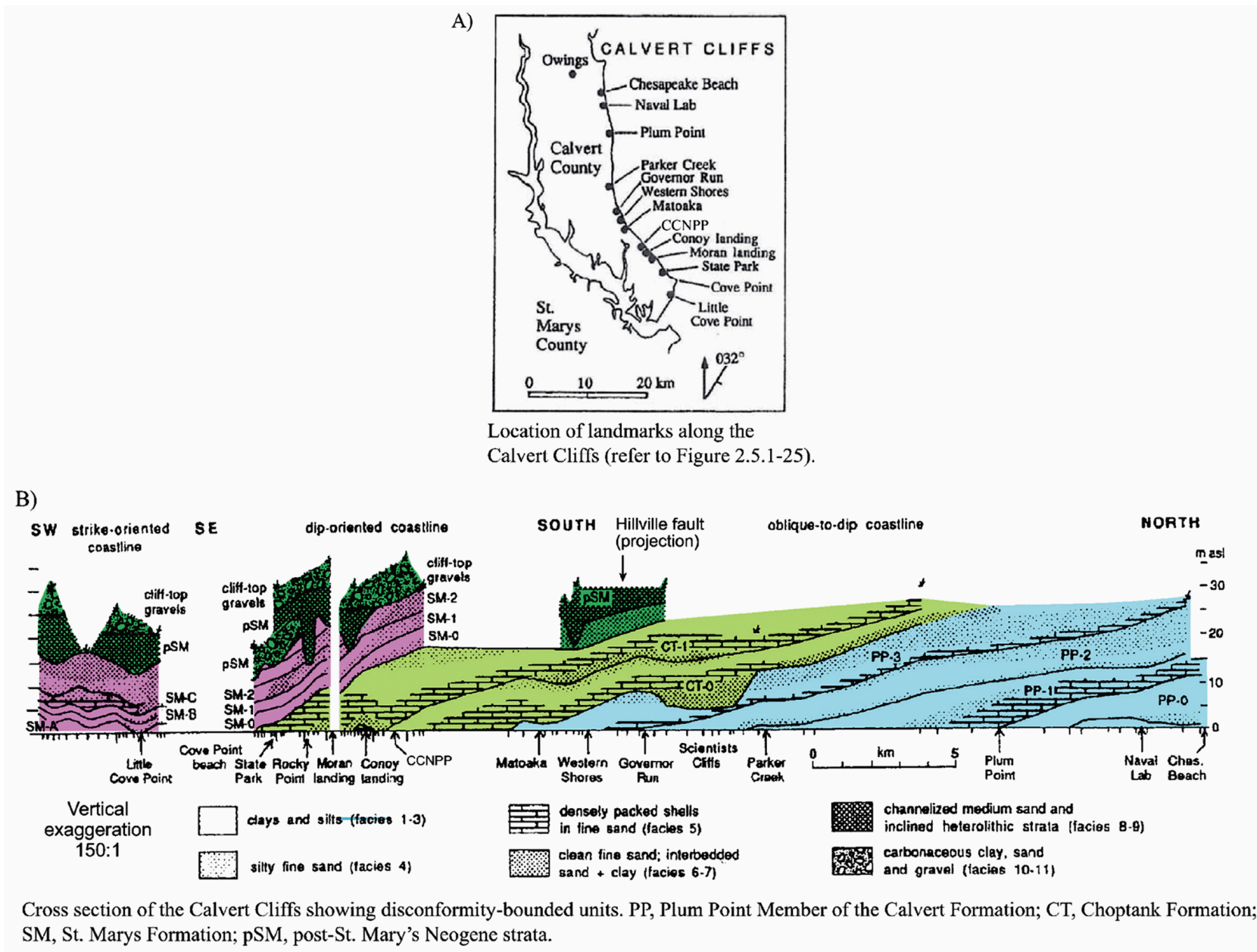


Figure 2.5-31 — {Potential Quaternary Features in the Site Region}

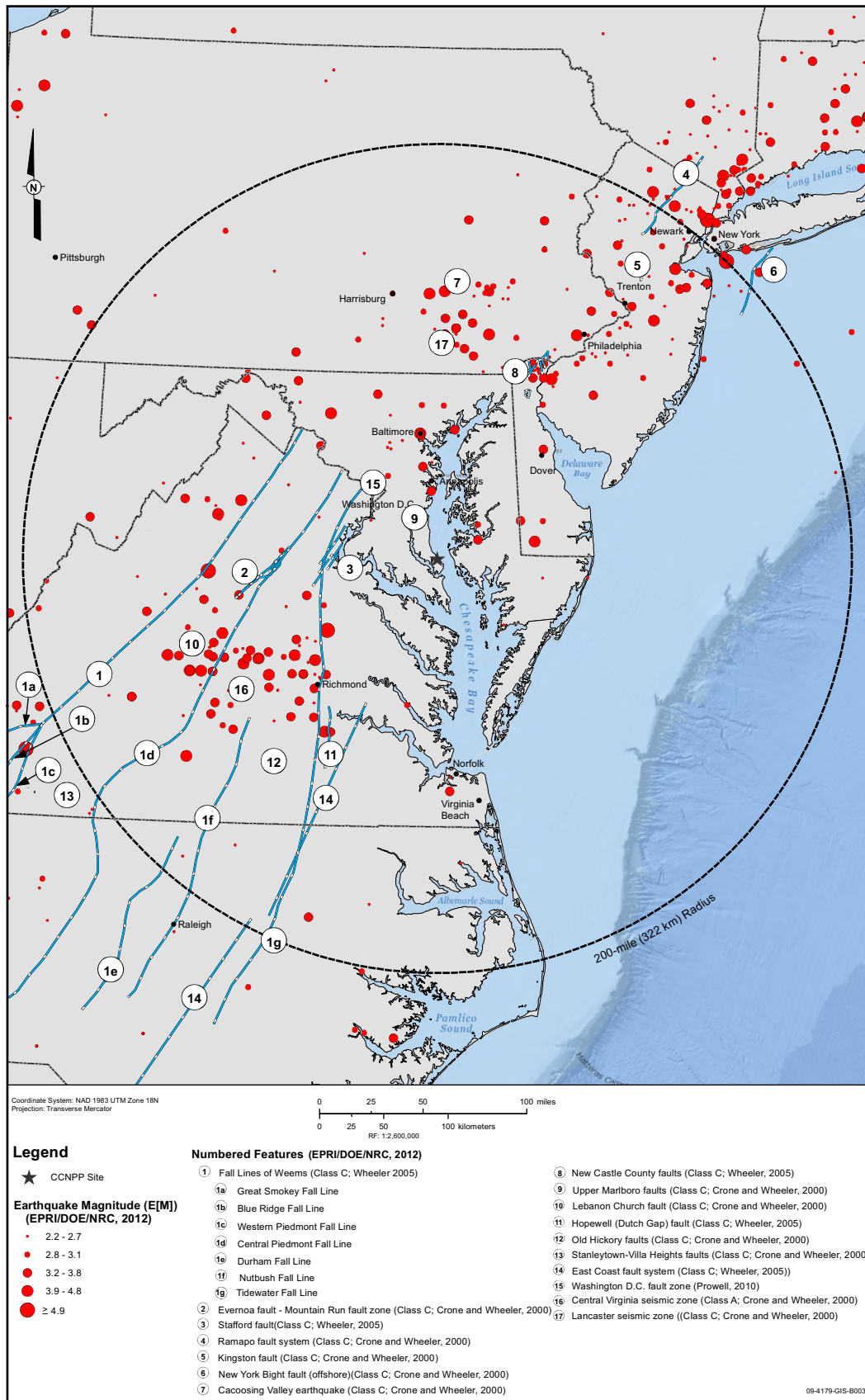


Figure 2.5-32 — {Site Area Geologic Map 5-Mile (8-Km) Radius}

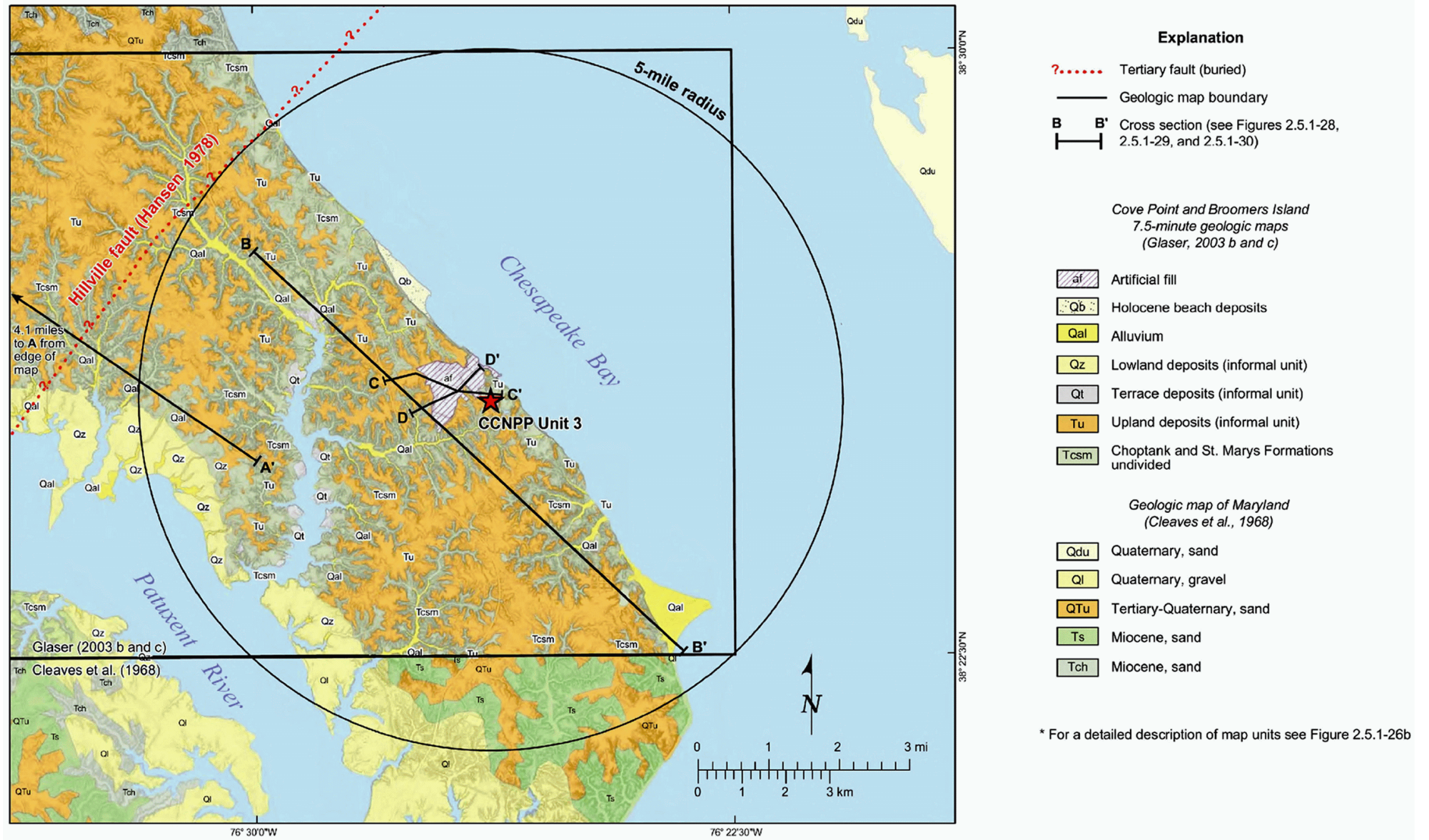


Figure 2.5-33 — {Site Area Geologic Cross Sections A-A' and B-B' 5-Mile (8-Km) Radius}

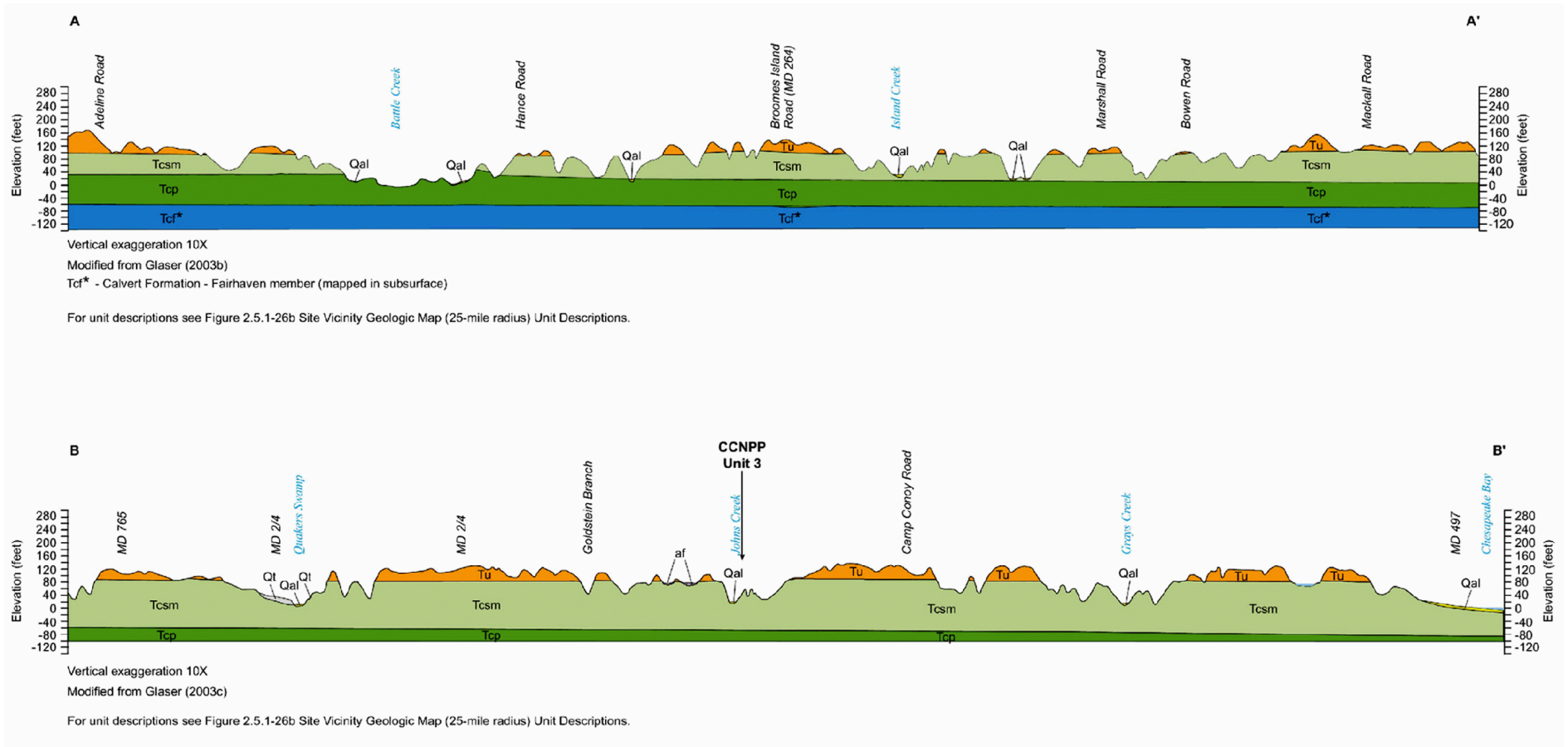


Figure 2.5-34 — {Site Geologic Map 0.6-mi (1-km) Radius}

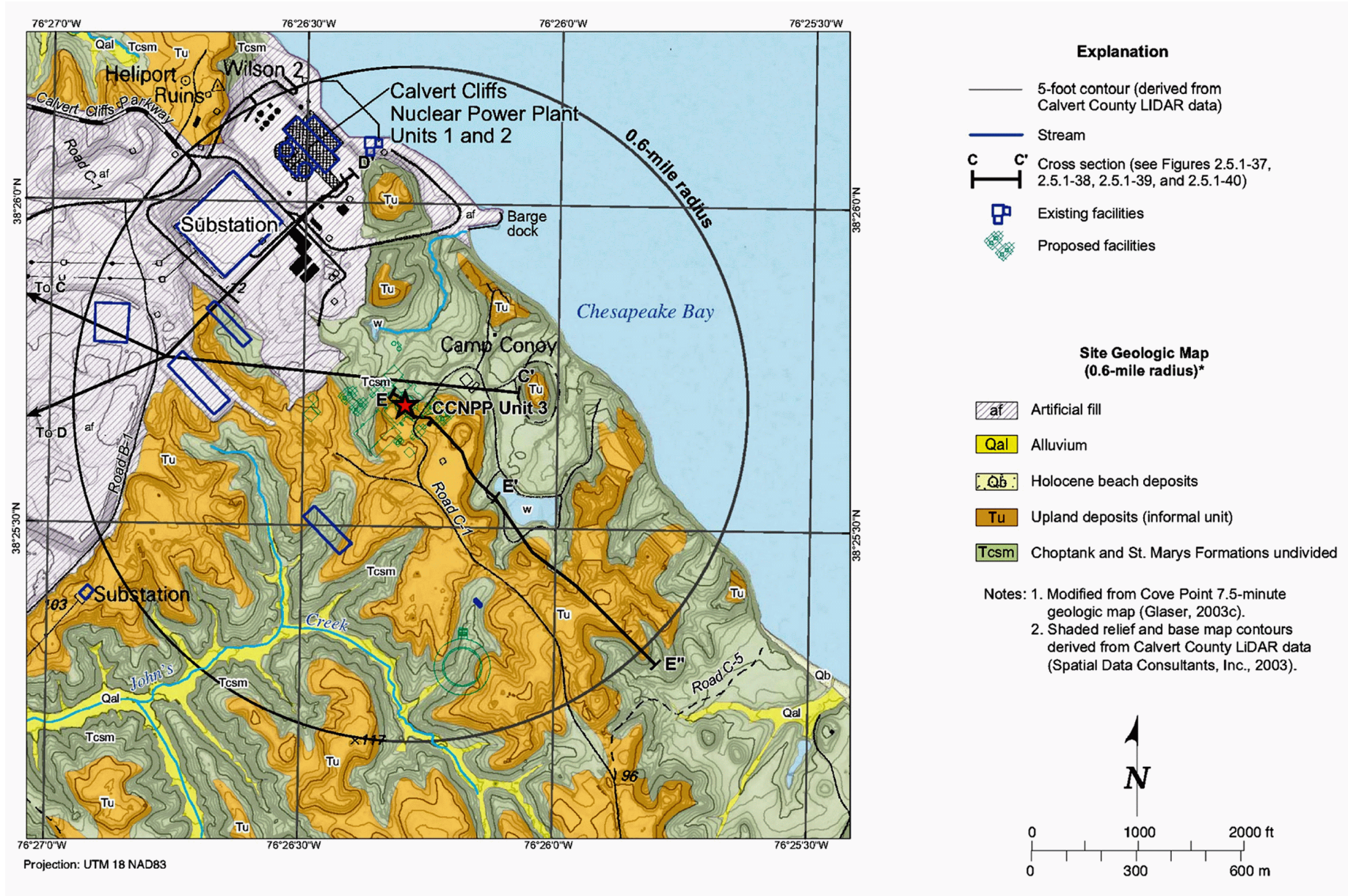


Figure 2.5-35 — {Boring Location Map CCNPP 3 from 2007 Drilling Program}

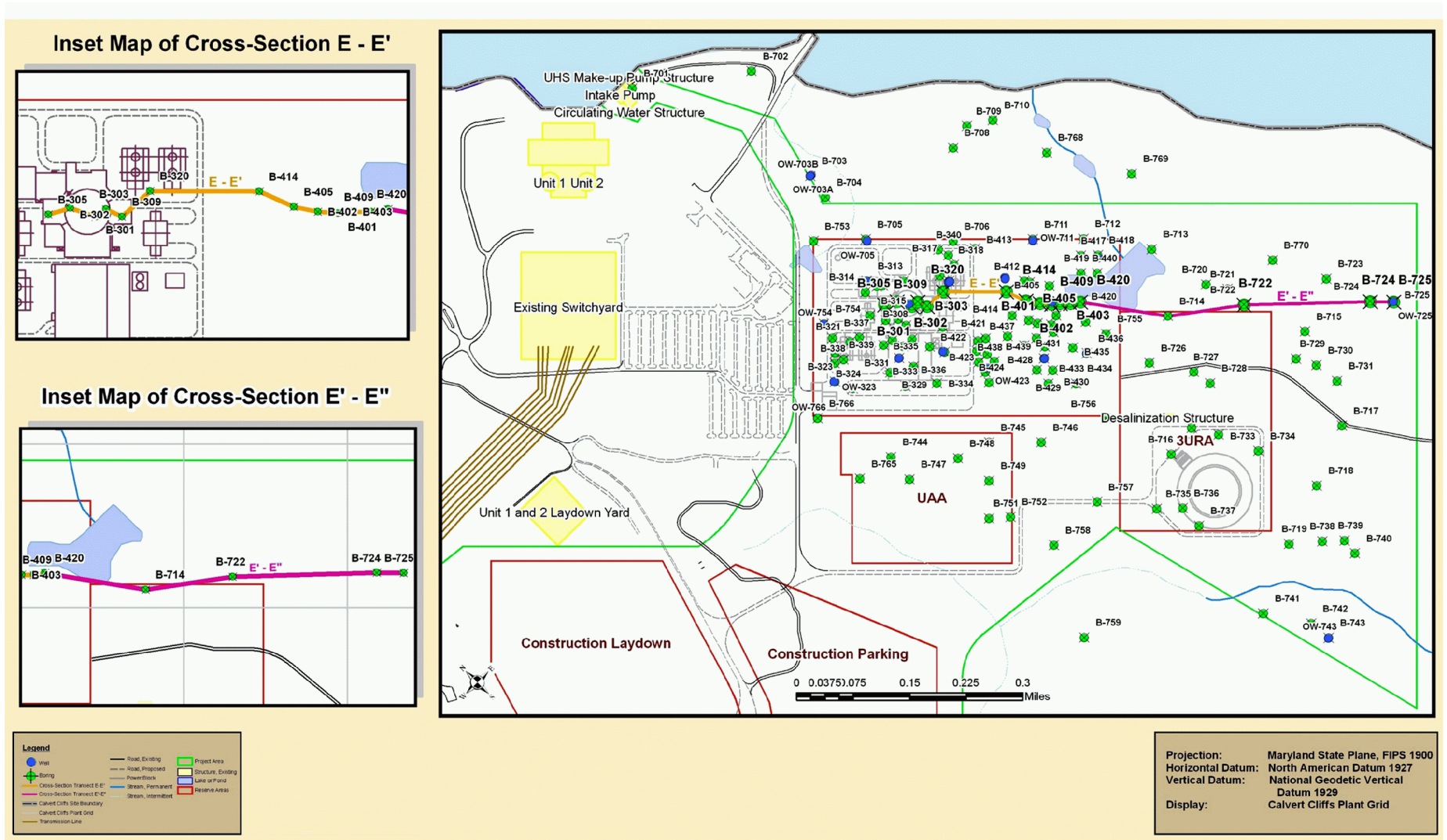


Figure 2.5-36 — {CCNPP Site Specific Stratigraphic Column}

ERA	PERIOD	EPOCH	AGE (Ma)	UNIT	THICKNESS (FT)	
Cenozoic	Quaternary	Holocene	0.01	Alluvium & Beach Deposits	0-50	
		Pleistocene	1.8	Terrace & Lowland Deposits		
	Tertiary	Pliocene		5.3	Upland Deposits	0-50
			Upper	11.2		
		Miocene	Middle		Chesapeake Group St. Marys Formation Choptank Formation Calvert Formation	245-280
				16.4		
		Eocene	Middle		Piney Point Formation	20
			Lower		Nanjemoy Formation	180
		Paleocene	Upper		Marlboro Clay Aquia Formation	165-170
			Lower		Brightseat Formation	10-20
Mesozoic	Cretaceous	Upper	99	Magothy, Monmouth, Matawan Formations undifferentiated	30?	
		Lower		Potomac Group Patapsco Formation Arundel/Patuxent Formations (undivided)	1000-1100 750-900	
Proterozoic/ Paleozoic			543+	Metamorphic/Igneous		

Figure 2.5-37 — {Boring B-301, Caliper, Natural Gamma, Resistivity and SP Logs}

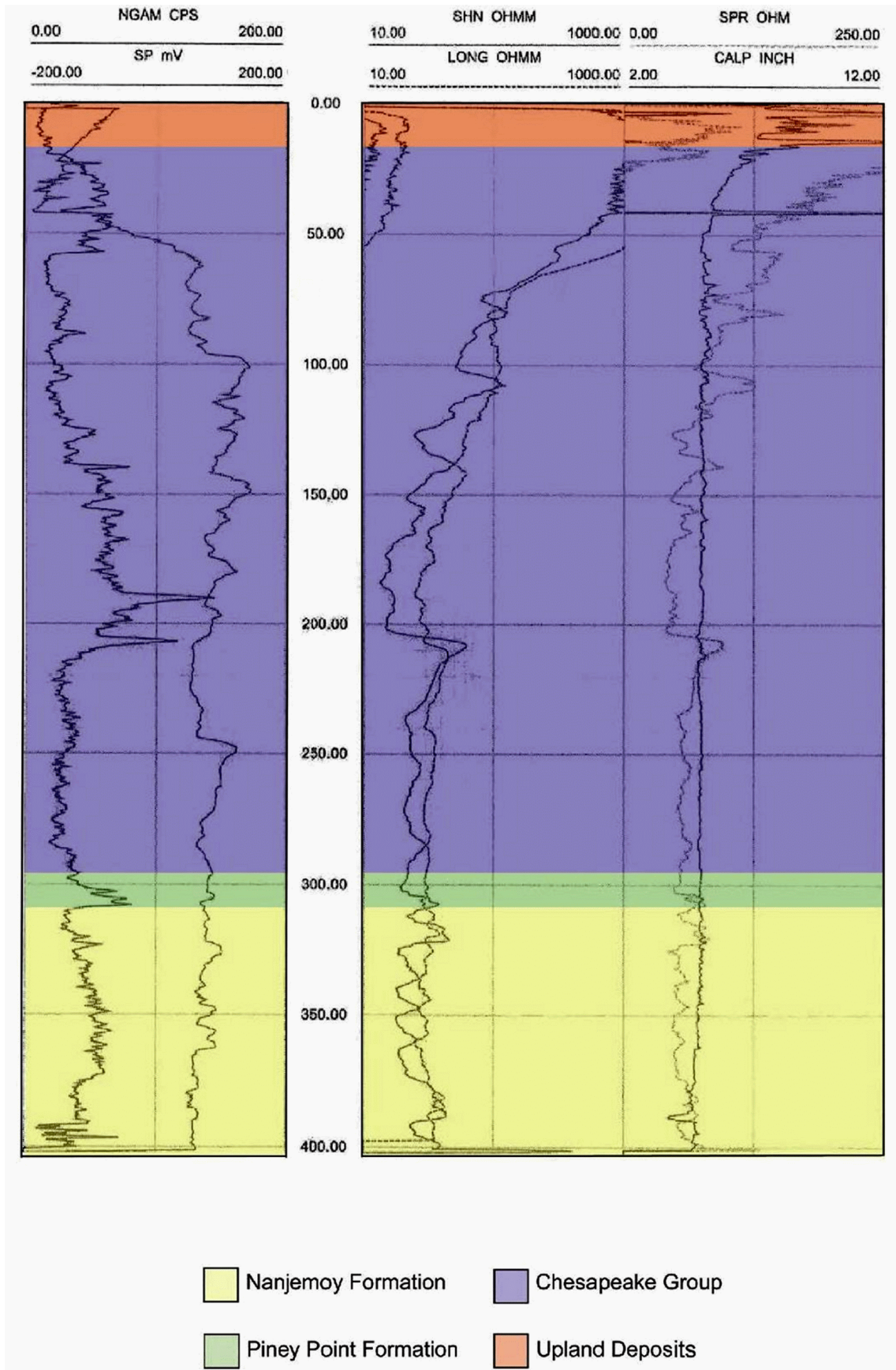


Figure 2.5-38 — {Boring B-401, Caliper, Natural Gamma, Resistivity and SP Logs}

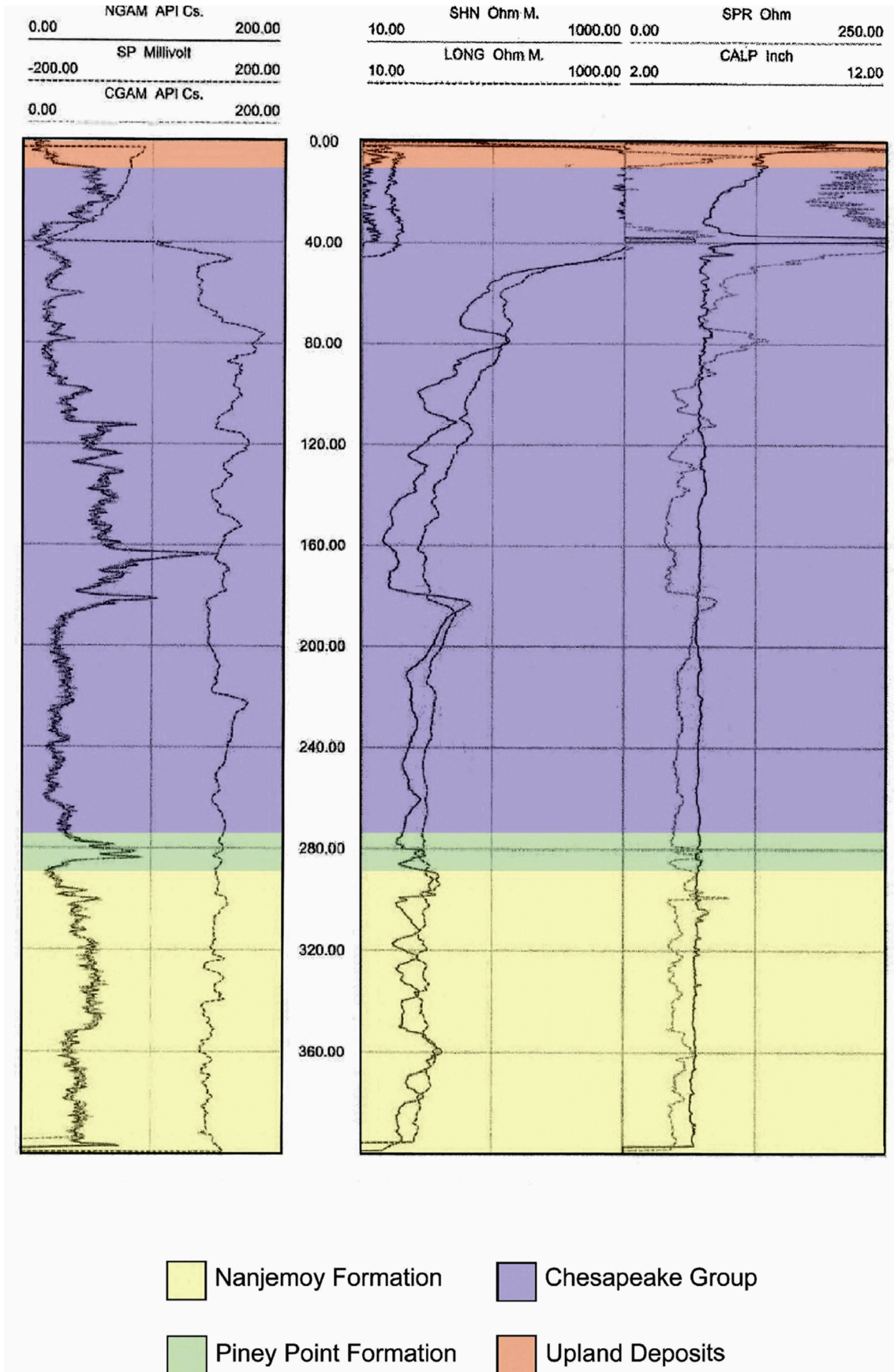


Figure 2.5-39 — {Subsurface Profile E-E'}

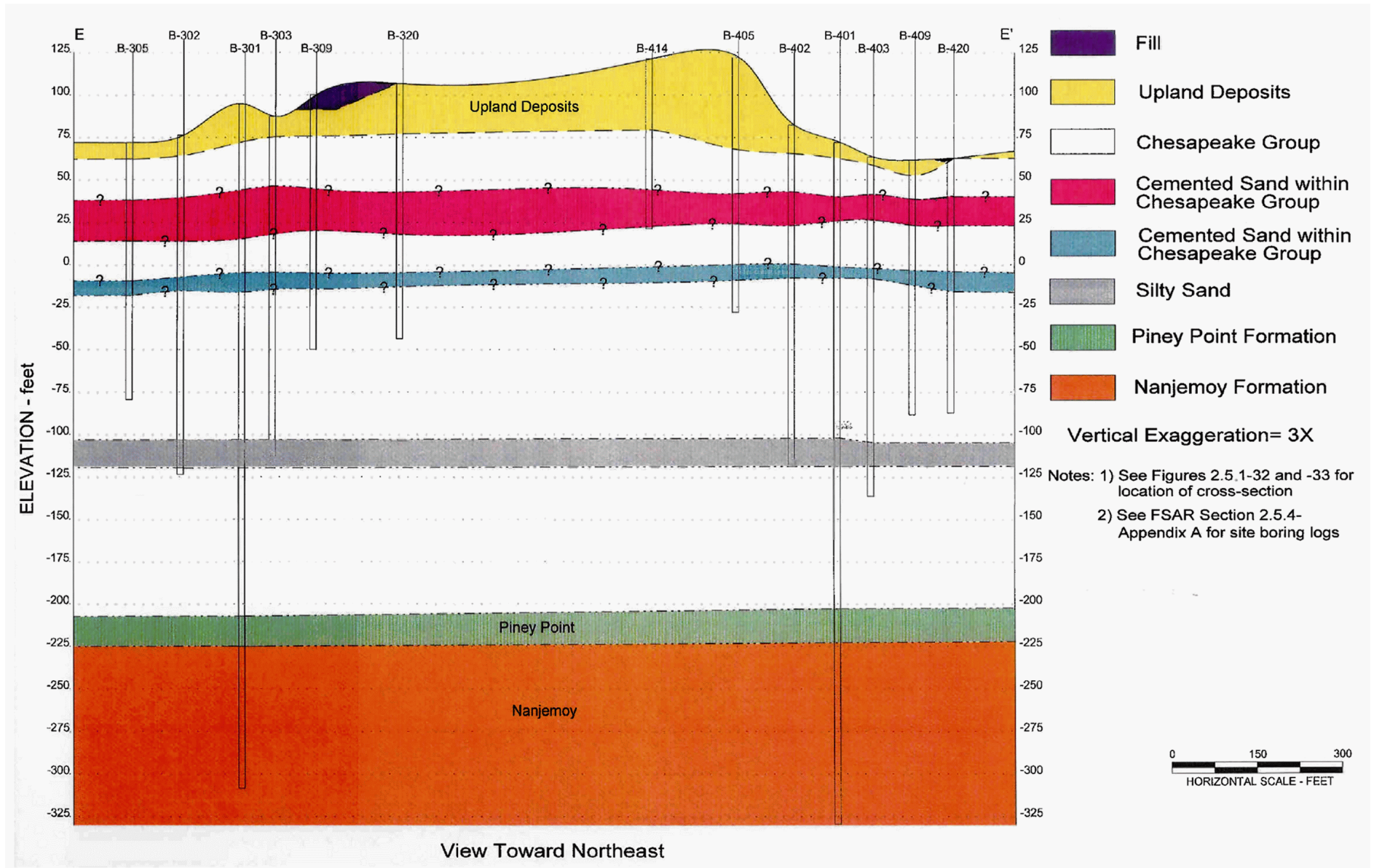
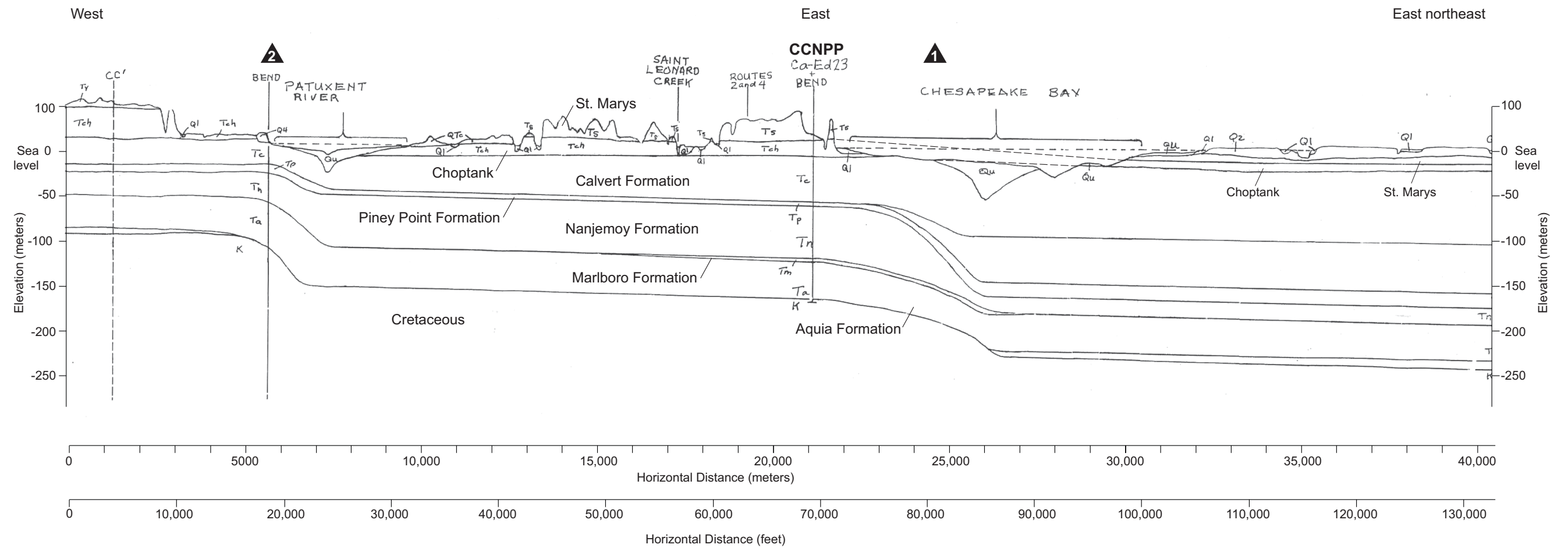


Figure 2.5-40 — {Cross Section}



Explanation

1 Location of inferred warp shown on Figure 2.5-25; vertical exaggeration = ~25X

Note: The above portion of section A - A' was modified from McCartan et al. (1995).