Figure 2.3-24—{Combined Annual Suspended Loads and Relation to Annual Flow from the Susquehanna, Potomac and James Rivers near the Fall Line}

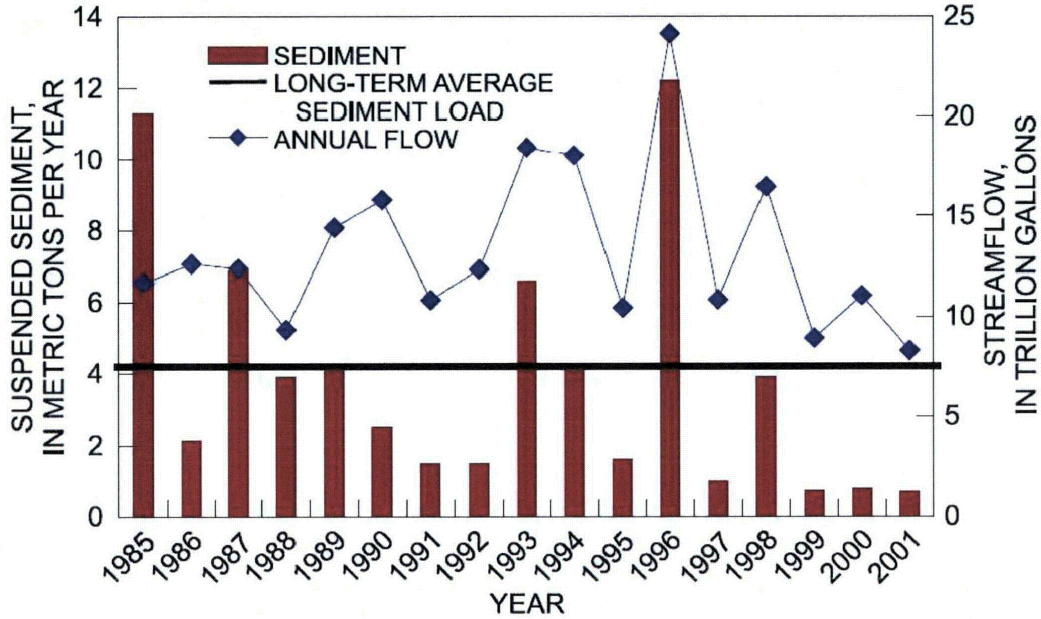

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Figure 2.3-25—{Estimated Chesapeake Bay Shoreline Erosion Rates near the CCNPP Unit 3 Site}

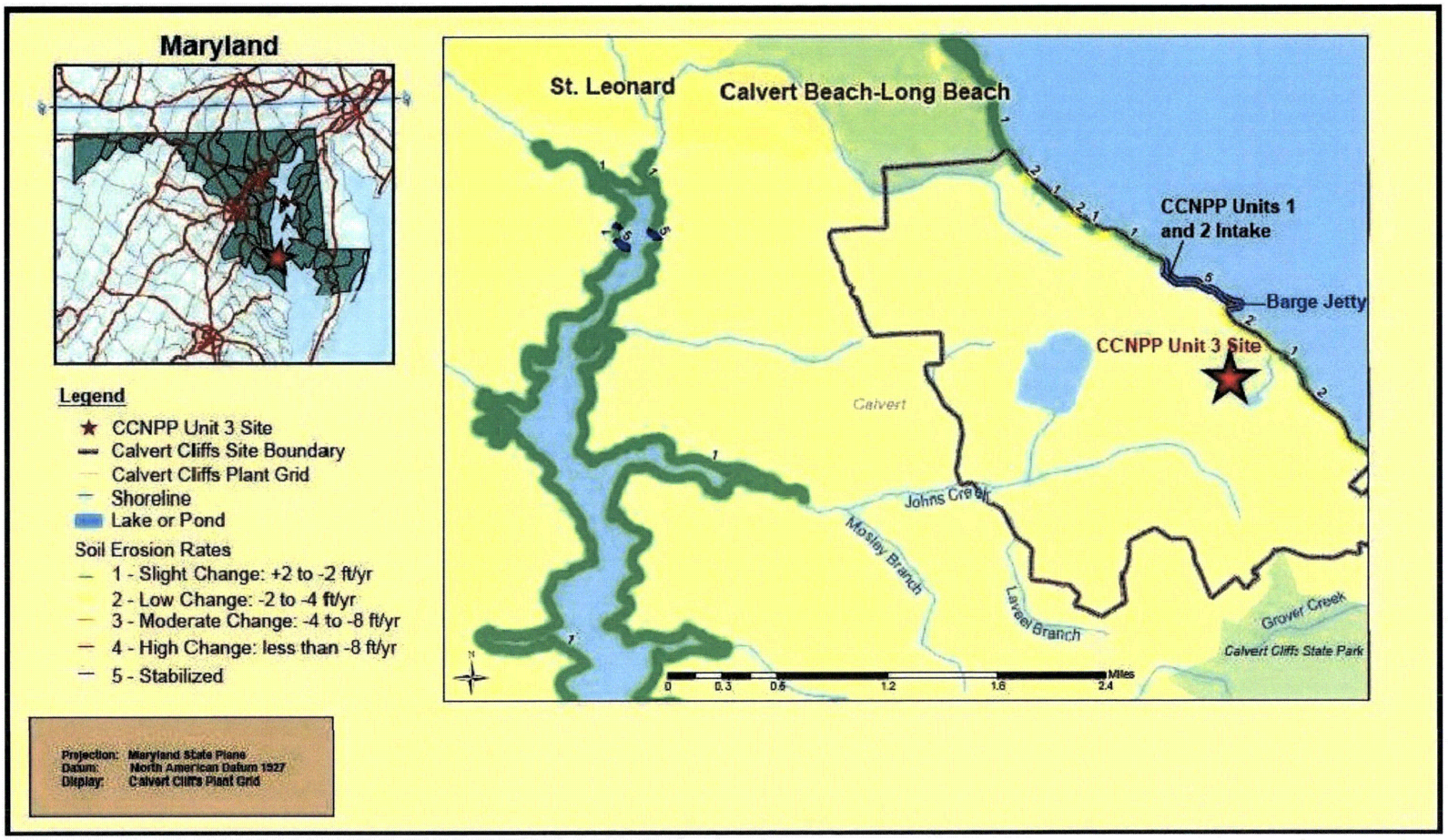

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Figure 2.3-26—{Change in the Chesapeake Bay Shoreline Position near the CCNPP Site Between 1848, 1942 and 1993}

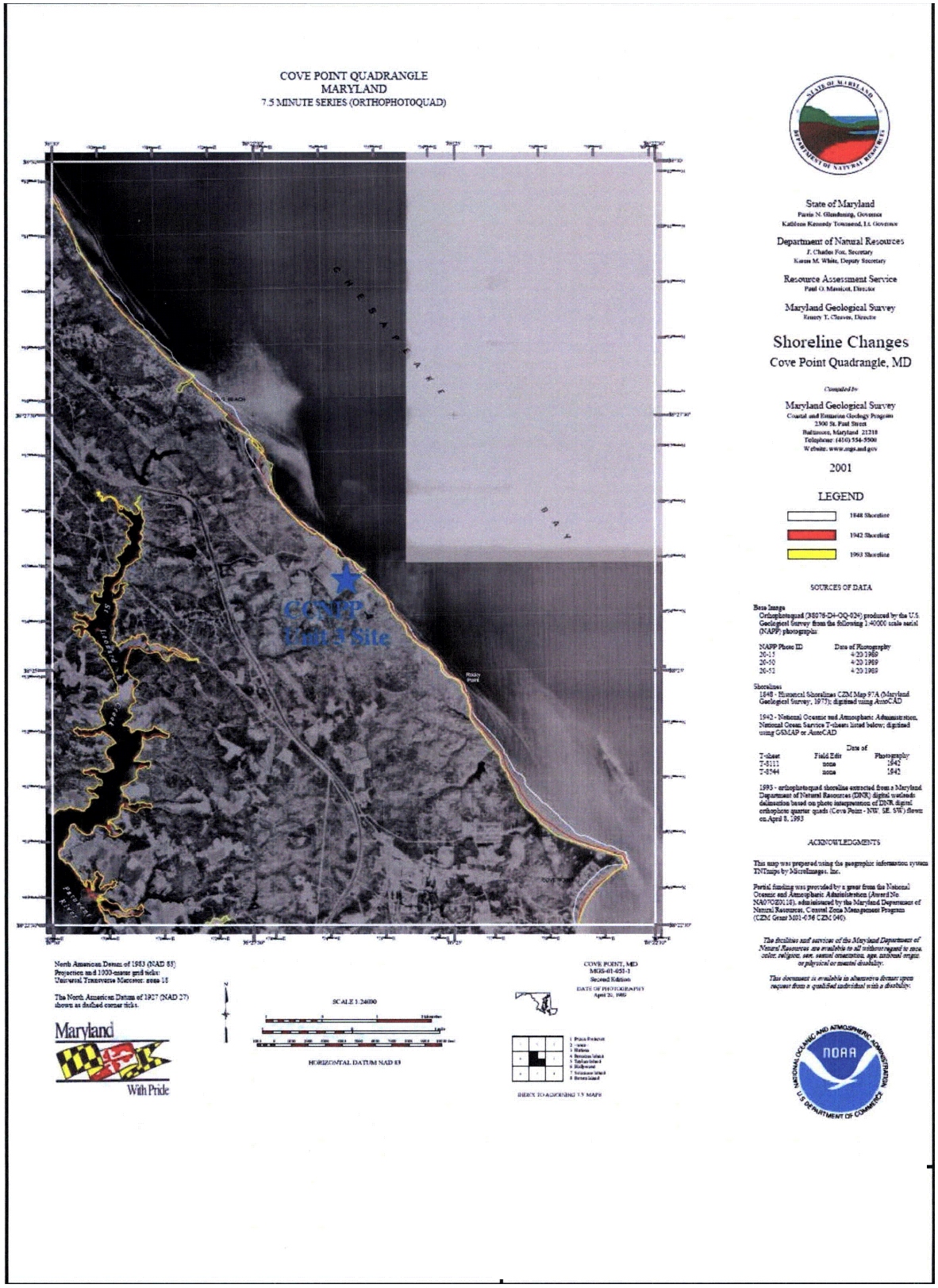

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Figure 2.3-27—{Chesapeake Bay Bathymetry Near the Existing CCNPP Units 1 and 2 Structure at the Existing Intake Channel}

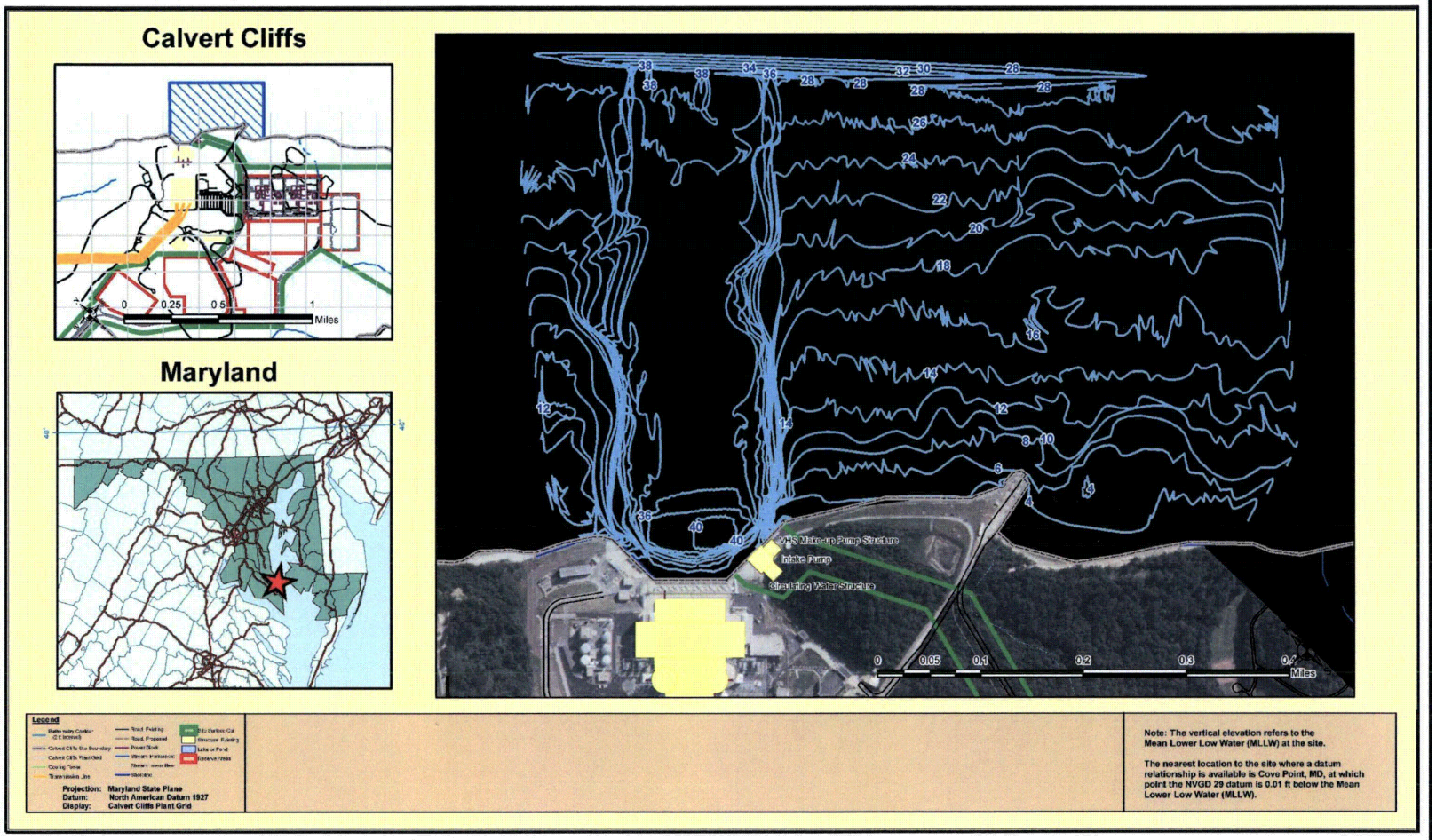

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Figure 2.3-28—{Location of CCNPP and 200 Mile Radius from the Plant Site}

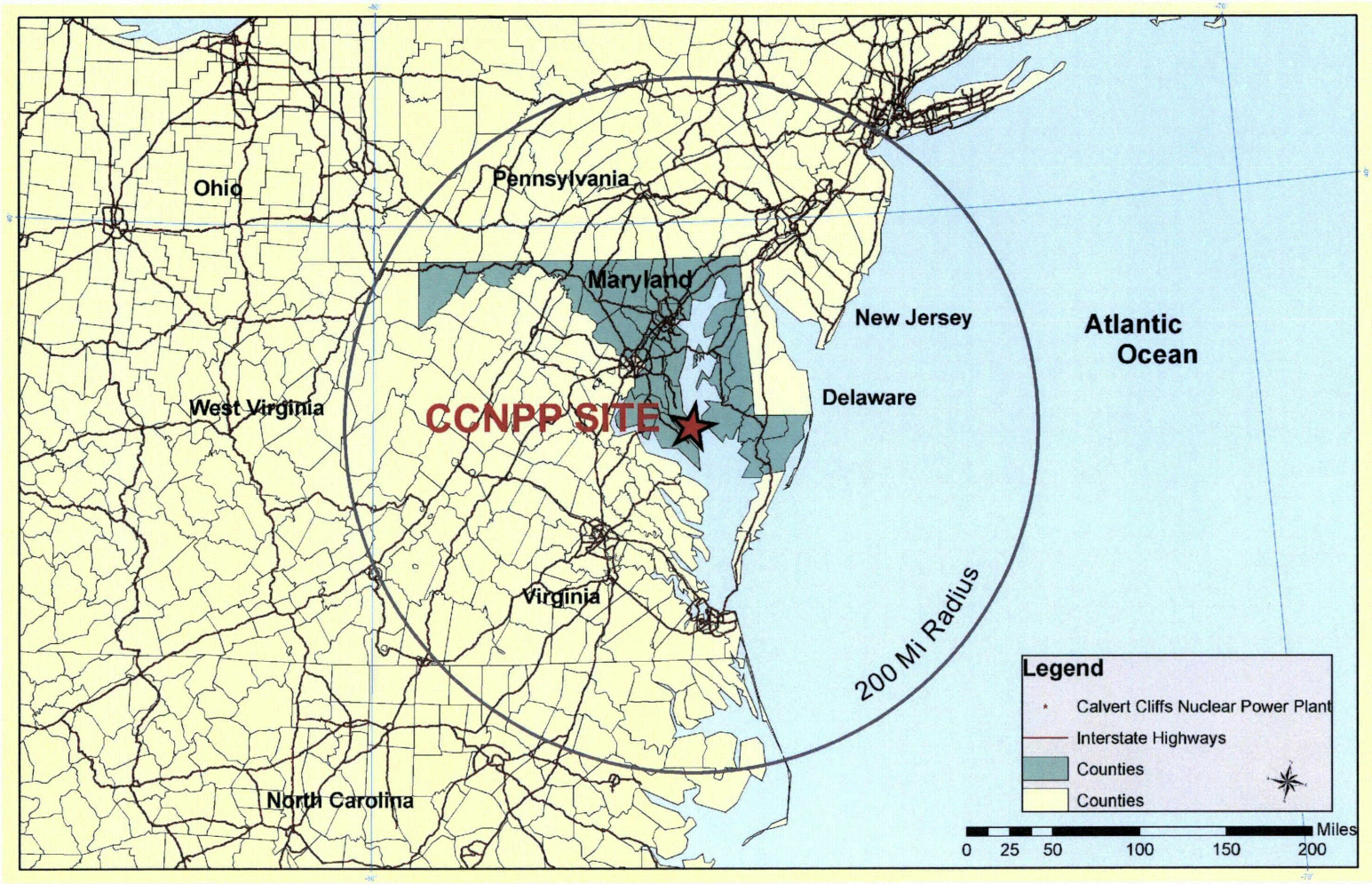

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Figure 2.3-29—{Mid-Atlantic Regional Physiographic Provinces and Hydrostratigraphic Units}

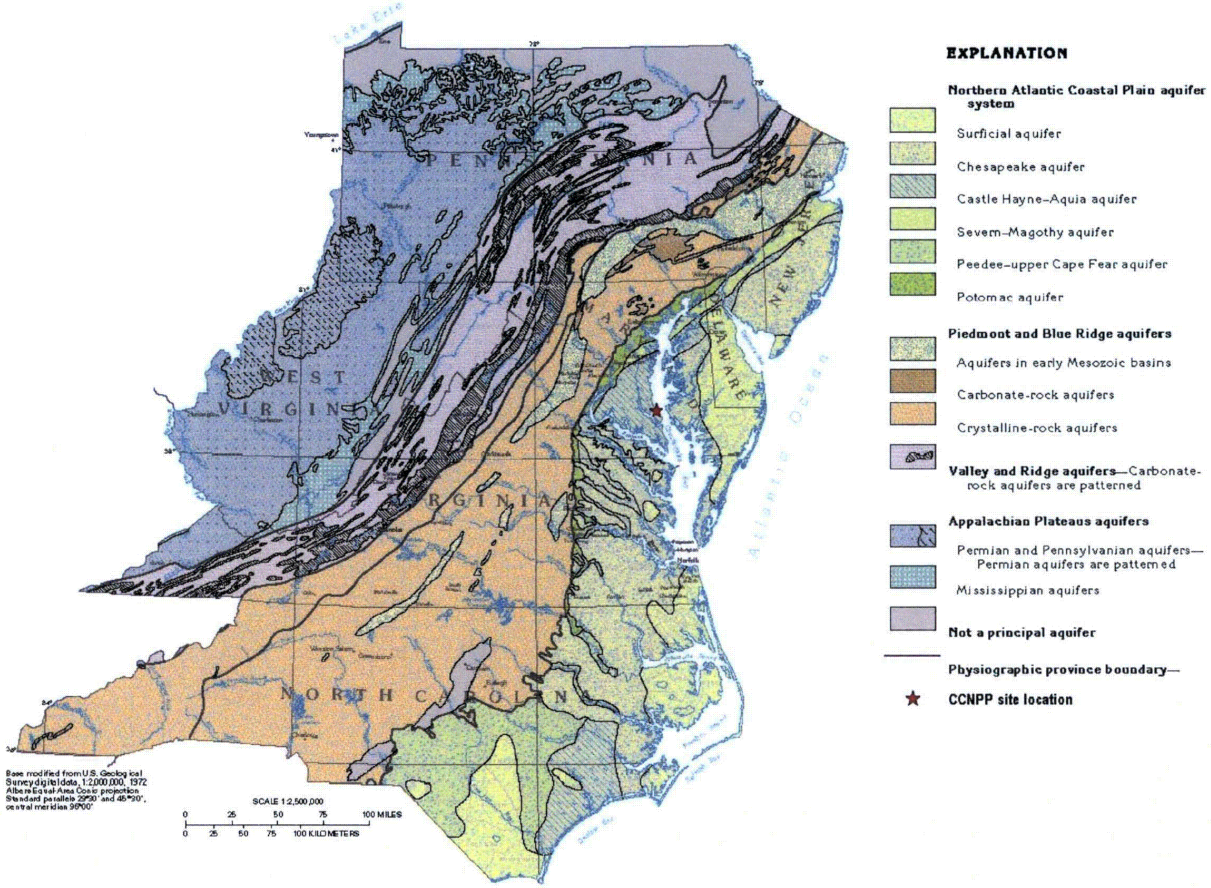

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Figure 2.3-30—{Schematic Geologic Cross Section through the Mid-Atlantic Region}

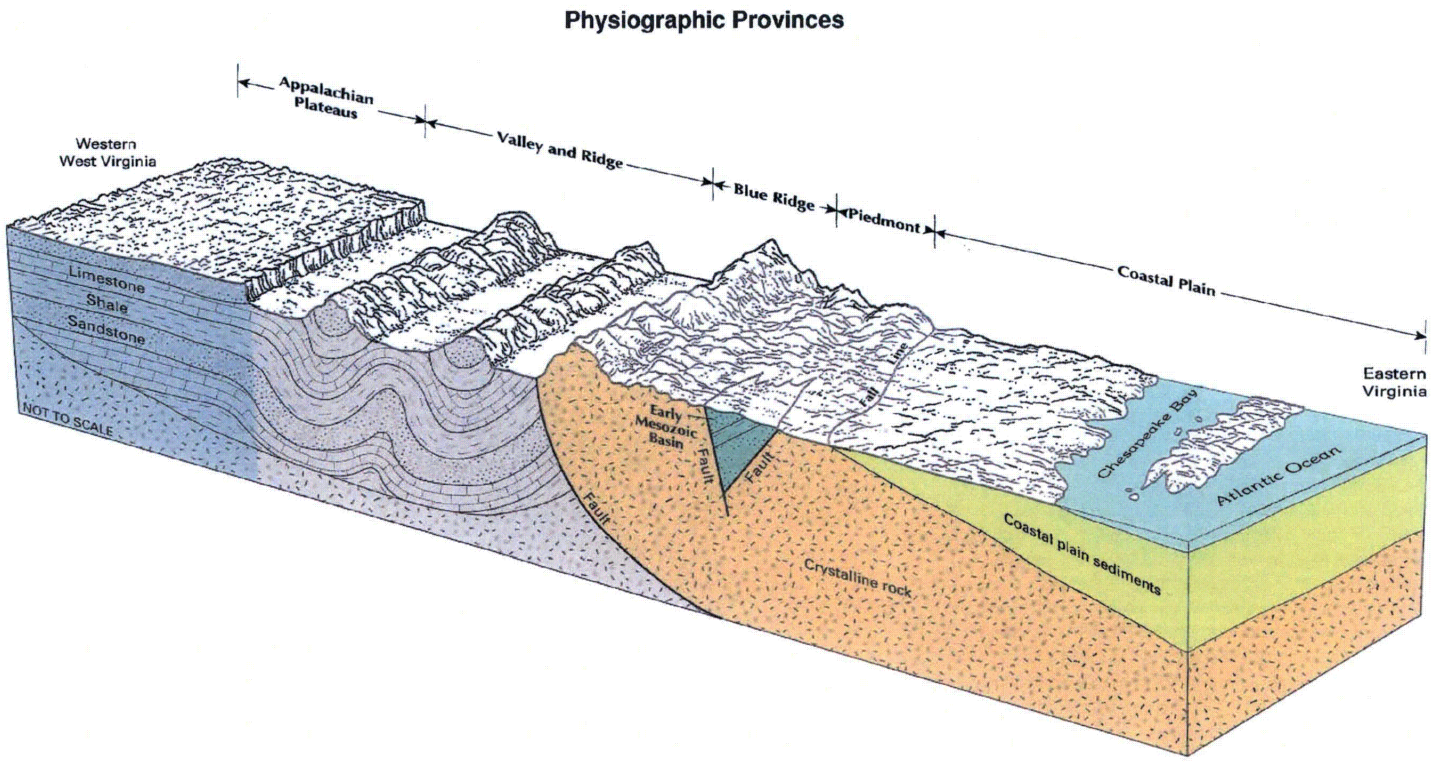

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Figure 2.3-31—{Southern Maryland Schematic Hydrostratigraphic Section}

ERATHEM	SYSTEM	SERIES	FORMATION			THICKNESS (feet)	LITHOLOGY	HYDROSTRATIGRAPHIC UNIT	
CENOZOIC	QUATERNARY	Holocene & Pleistocene	Lowland deposits			0-150	Sand, gravel, sandy clay, and clay.	SURFICIAL AQUIFER	
	NEOGENE	Pliocene	Upland deposits			0-85	Irregularly stratified cobbles, gravel, sand, and clay lenses.		
		Miocene	Chesapeake Group	St. Mary's Fm.		0-335	Sand, clayey sand, and sandy clay; fossiliferous and diatomaceous.	CHESAPEAKE CONFINING UNIT	
				Choptank Fm.					
				Calvert Fm.					
	PALEOGENE	Oligocene		Unnamed Oligocene Beds		0-5	Patchy distribution; clayey, glauconitic sand.	PINEY POINT-NANJEMOY AQUIFER	
		Eocene	Pamunkey Group	Piney Point Fm.		0-90	Sand, slightly glauconitic, with intercalated indurated layers; fossiliferous.		
				Nanjemoy Fm.		0-240	Glauconitic sand with clayey layers.		
		Paleocene		Marlboro Clay		0-30	Pink and gray clay.	NANJEMOY CONFINING UNIT	
				Aquia Fm.		30-205	Glauconitic, greenish to brown sand with indurated layers; fossiliferous.	AQUIA AQUIFER	
				Brightseat Fm.		0-40	Gray to dark-gray micaceous silty and sandy clay.	BRIGHTSEAT CONFINING UNIT	
MESOZOIC	CRETACEOUS	Upper	Monmouth Group / Matawan Group	Formations undifferentiated		20-105	Sandy clay and sand, dark gray to black, with minor glauconitic; fossiliferous.		
			Magothy Fm.			0-230	Light gray to white sand and fine gravel with interbedded clay layers; contains pyrite and lignite. Includes two sand units in southern Anne Arundel County where the formation is the thickest.	MAGOTHY AQUIFER	
		Lower	Potomac Group	Patapsco Fm.		0-1,200	Interbedded sand, clay, and sandy clay; color variegated, but chiefly hues of red, brown and gray; consists of several sandy intervals that function as separate aquifers.	Patapsco aquifer system	UPPER PATAPSCO CONFINING UNIT
									UPPER PATAPSCO AQUIFER
									MIDDLE PATAPSCO CONFINING UNIT
									LOWER PATAPSCO AQUIFER
				Arundel Fm.		0-400	Red, brown, and gray clay; in places contains ironstone nodules, carbonaceous remains, and lignite.	ARUNDEL CONFINING UNIT	
				Patuxent Fm.		100-600	Interbedded gray and ye low sand and clay; kaolinized feldspar and lignite common. Locally clay layers predominate.	PATUXENT AQUIFER	
PALEOZOIC / PRECAMBRIAN	Undifferentiated pre-Cretaceous consolidated-rock basement					Unknown	Igneous and metamorph c rocks; sandstone and shale.	NOT RECOGNIZED	

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