

Post-Alleghenian Deformation of the Shawangunk Ridge in NY and NJ

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EARLY MEDIAL ORDOVICIAN
(Early Chazyan)
PALEOGEOGRAPHY

by Marshall Kay

Drawn by Erwin Raisz

Palinspastic base - Sinusoidal projection

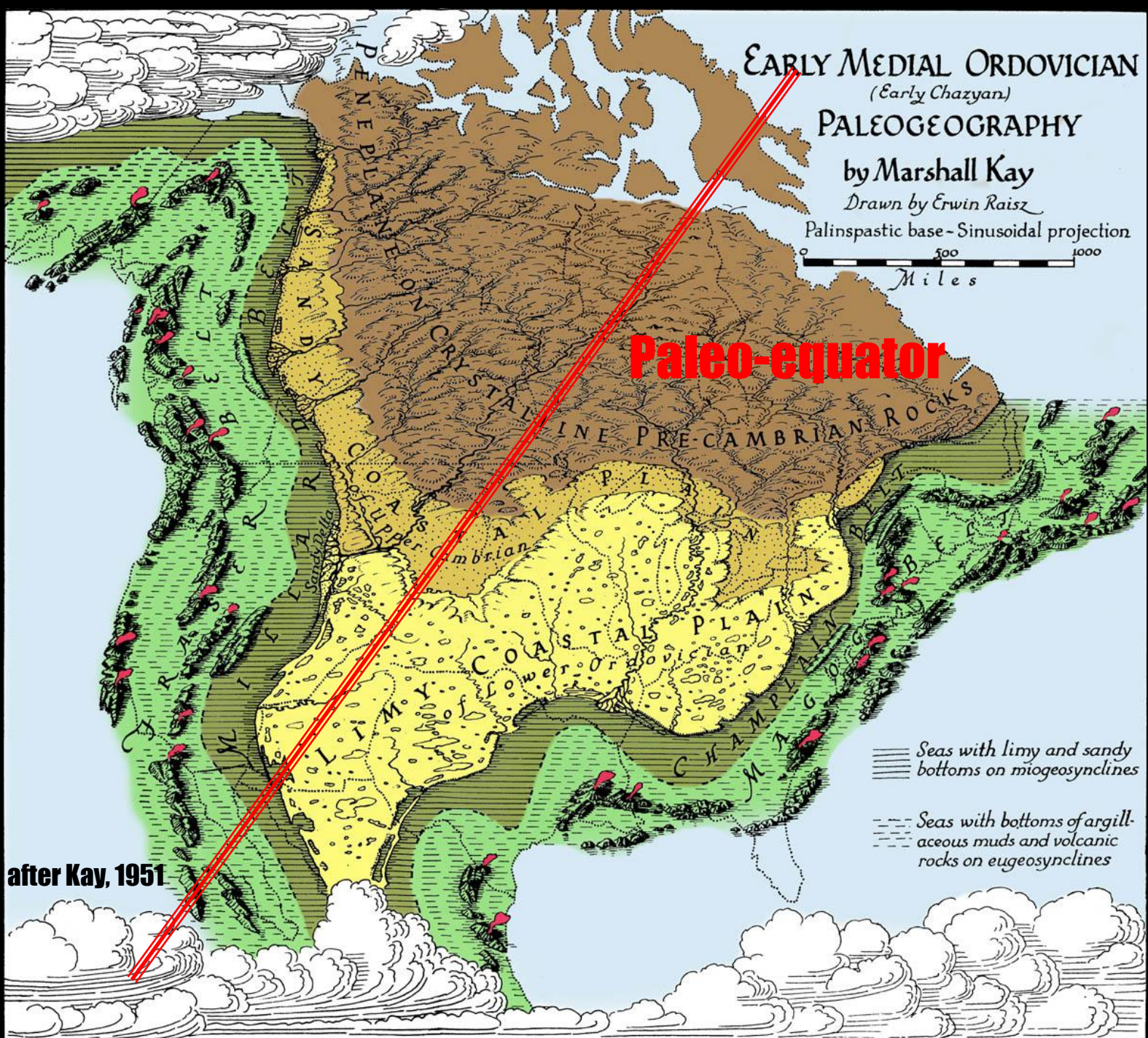
0 500 1000
Miles

Paleo-equator

after Kay, 1951

Seas with limy and sandy
bottoms on miogeosynclines

Seas with bottoms of argill-
aceous muds and volcanic
rocks on eugeosynclines



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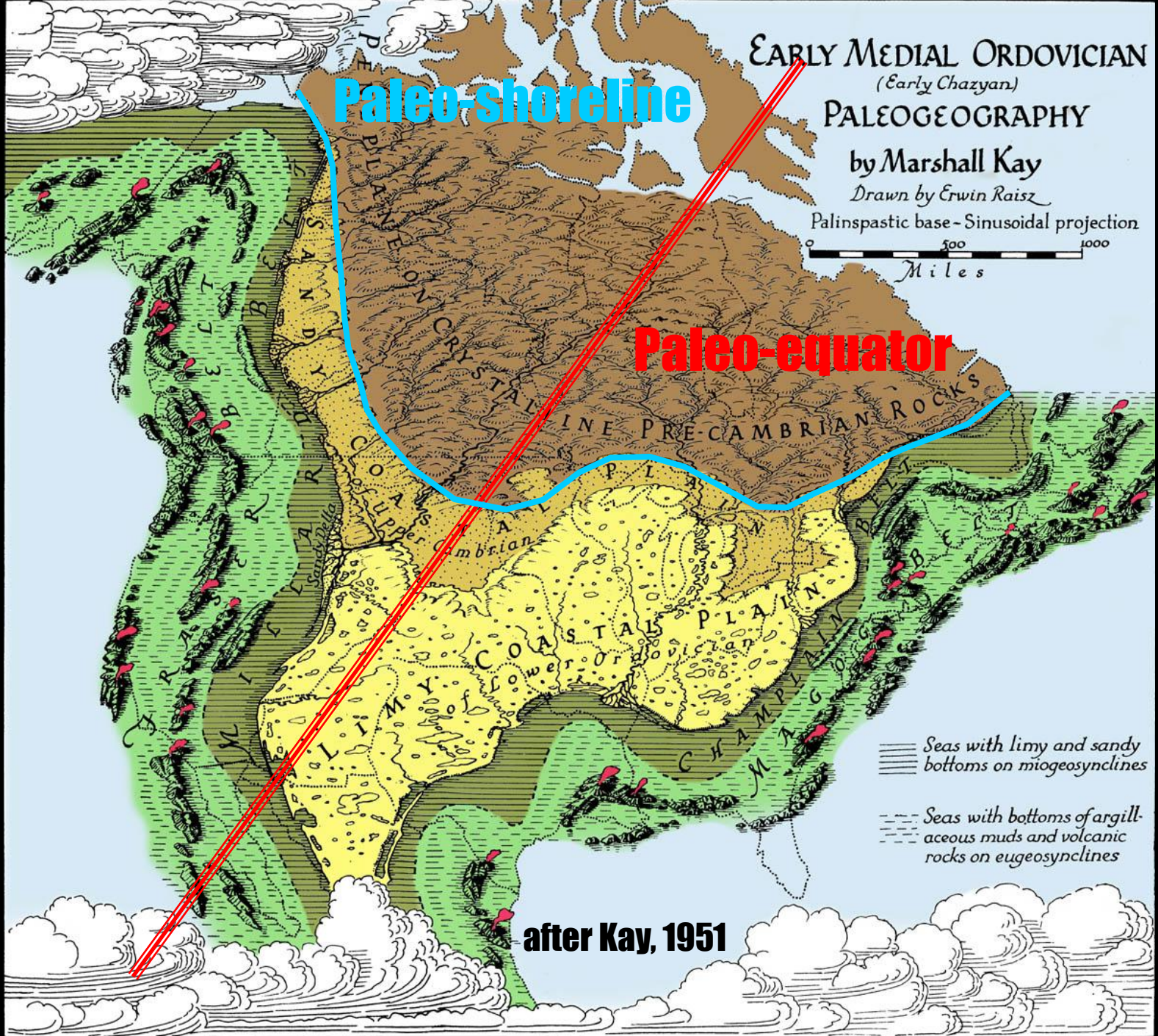
Paleo-shoreline

Paleo-equator

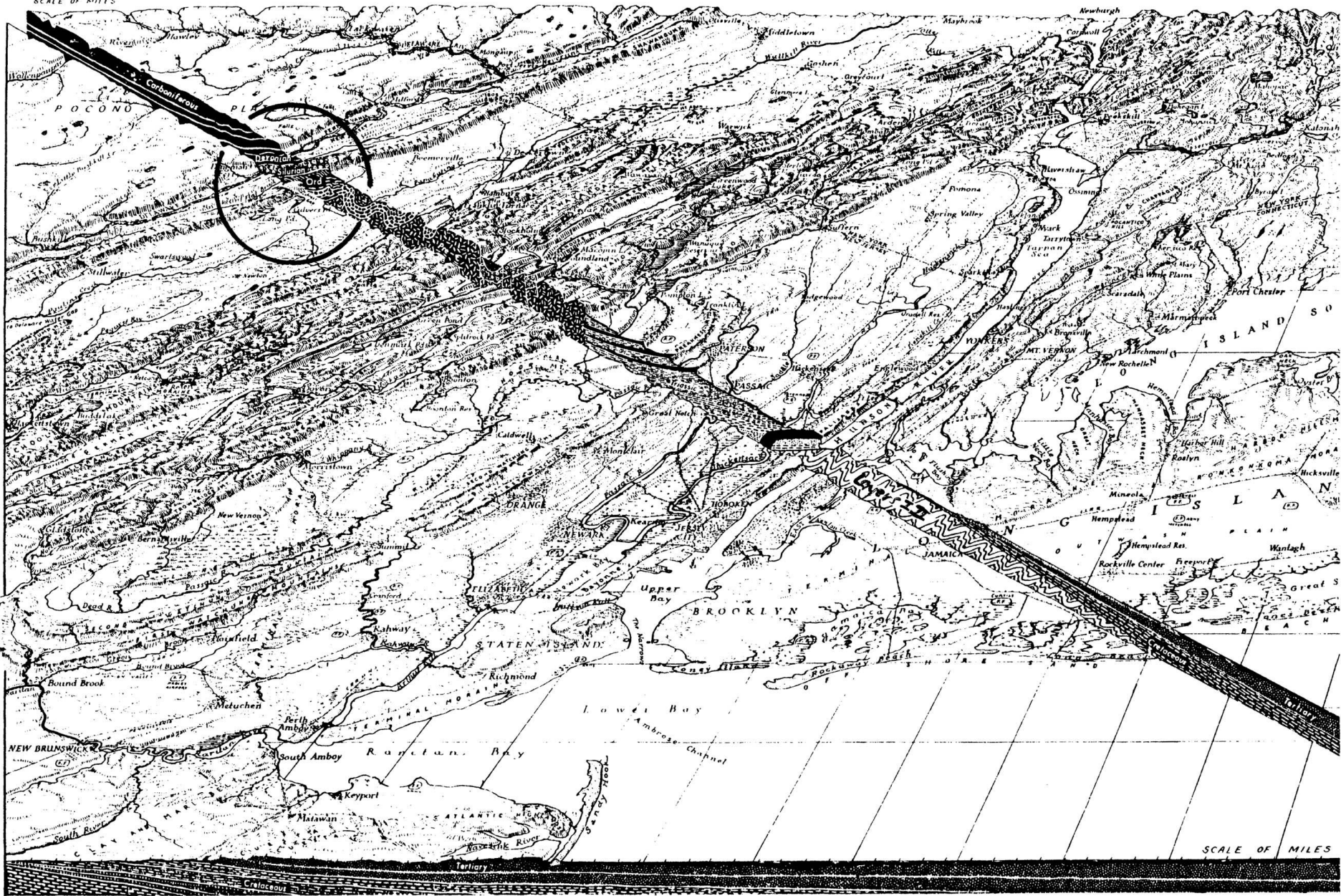
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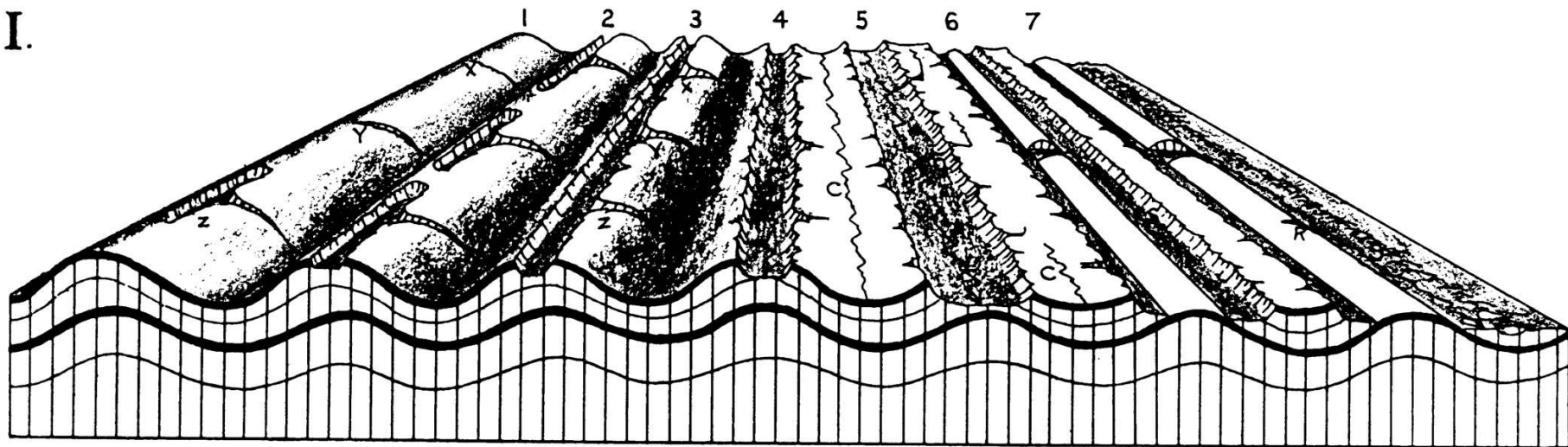


SCALE OF MILES



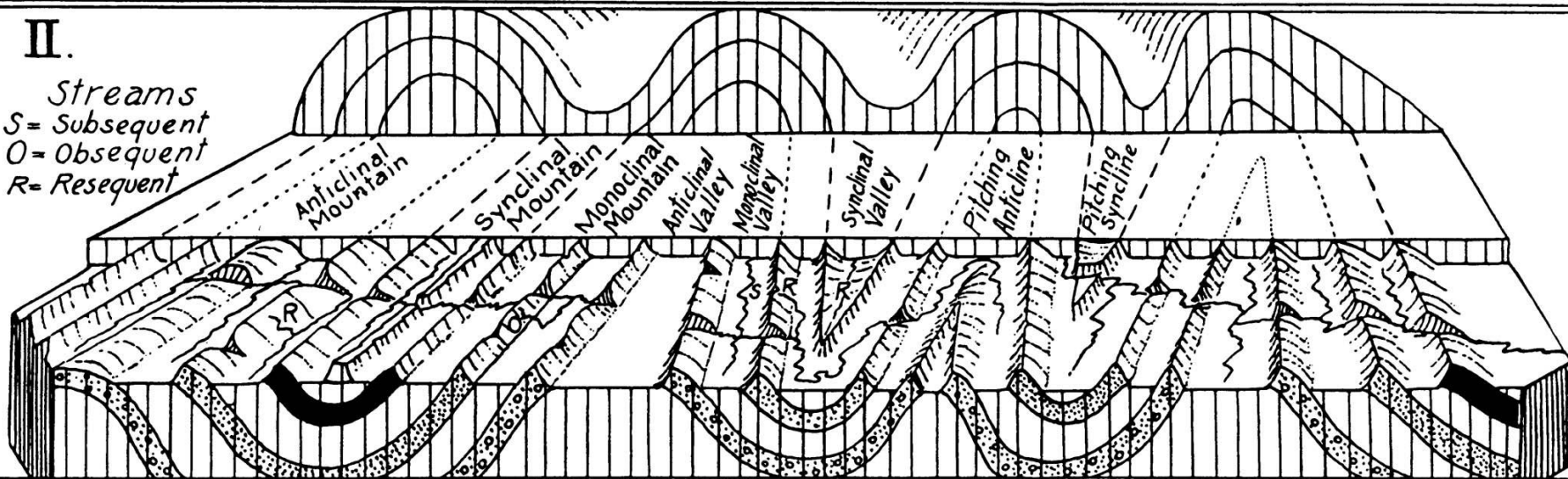
SCALE OF MILES

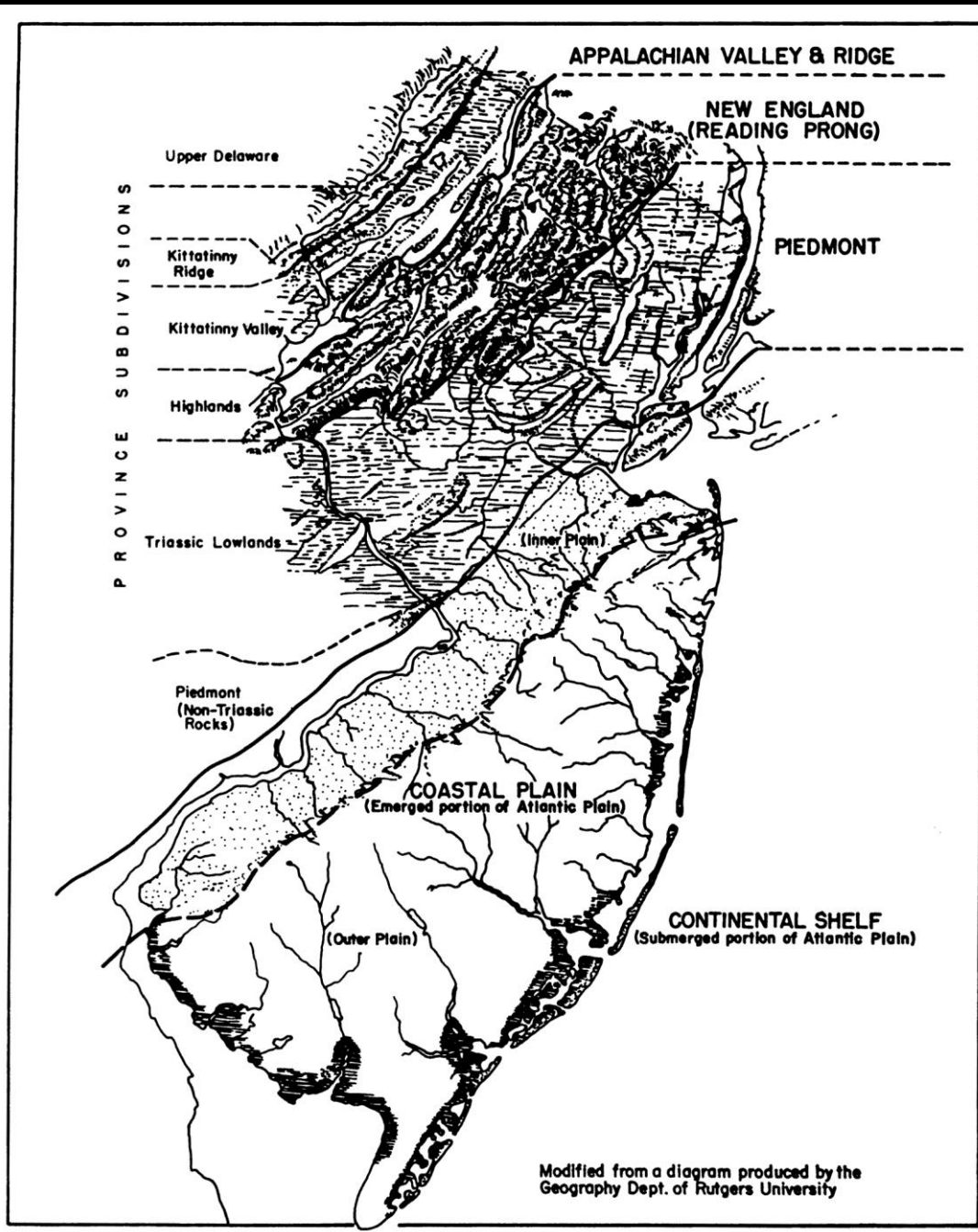
I.

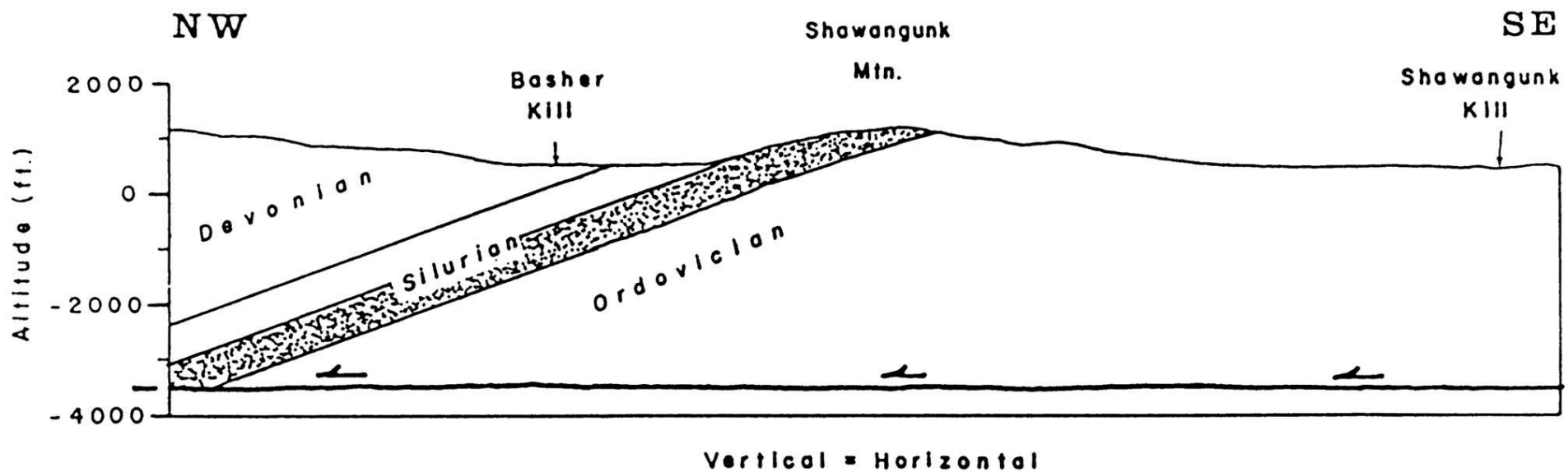


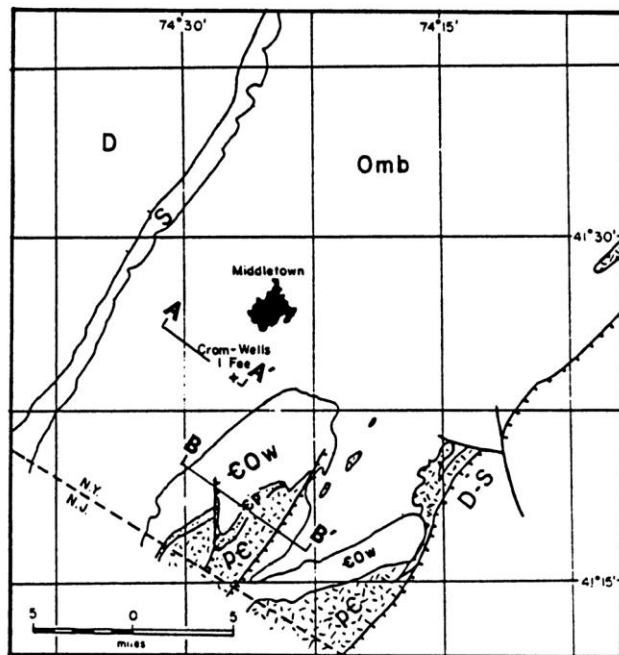
II.

Streams
 S= Subsequent
 O= Obsequent
 R= Resequent





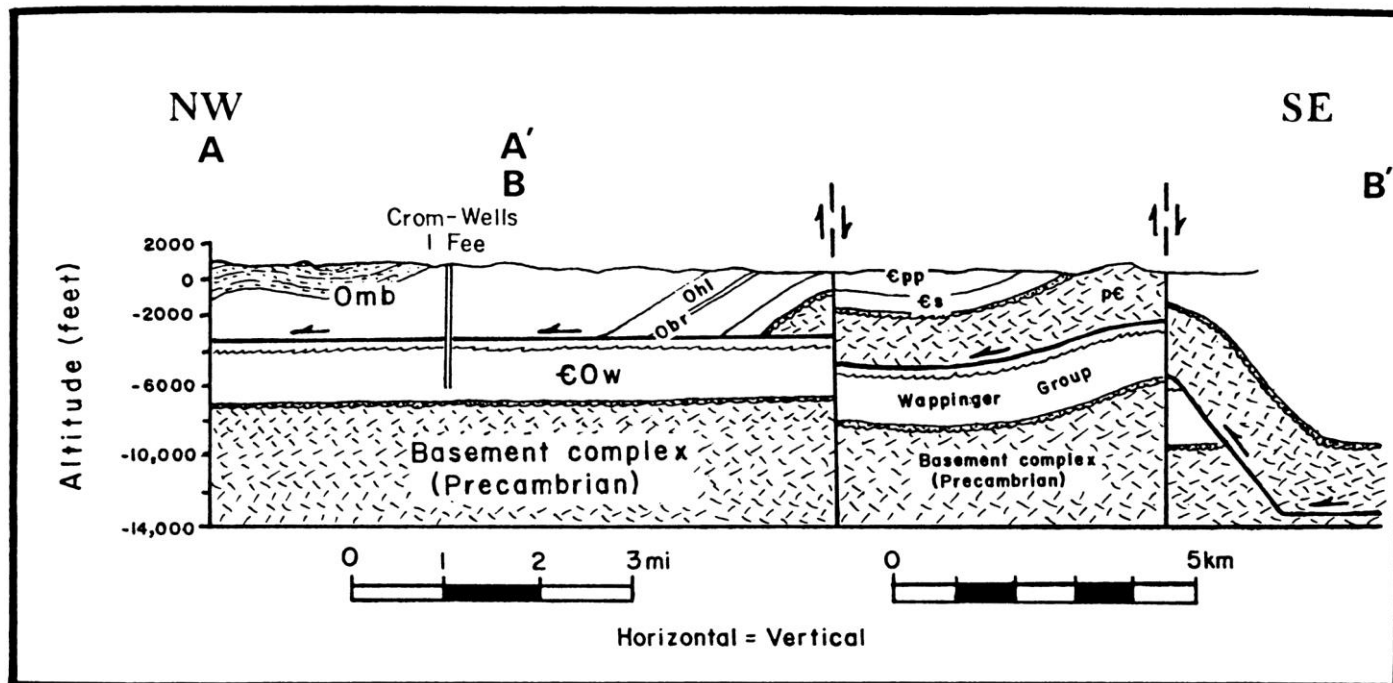




Depths in Middletown well (feet)		EXPLANATION	
Top	Base	D-S	Devonian-Silurian
0	4530	Unconformity	
4530	4911	Omb	Martinsburg Fm. (M.-U. Ord.)
4911	5230	Ob	Bainville (=Jacksonburg) Ls. (M. Ord.)
5230	5699	Or	Rochdale Ls. (L. Ord.)
(Gas at 5400)	5699	Ohl	Halcyon Lake Calc-dol. (L. Ord.)
5699	5874	Obr	Briarcliff Dol. (L. Ord.)
5874	6865 TD	Epp	Pine Plains Dol. (U. Camb.)
		Es	Stissing Dol. (L.-M. Camb.)
		Ep	Poughquag (=Hardyston) Qtzl. (L. Camb.)
		Nonconformity	
		pc	Basement complex (Precambrian)

Wappinger Group

€ow

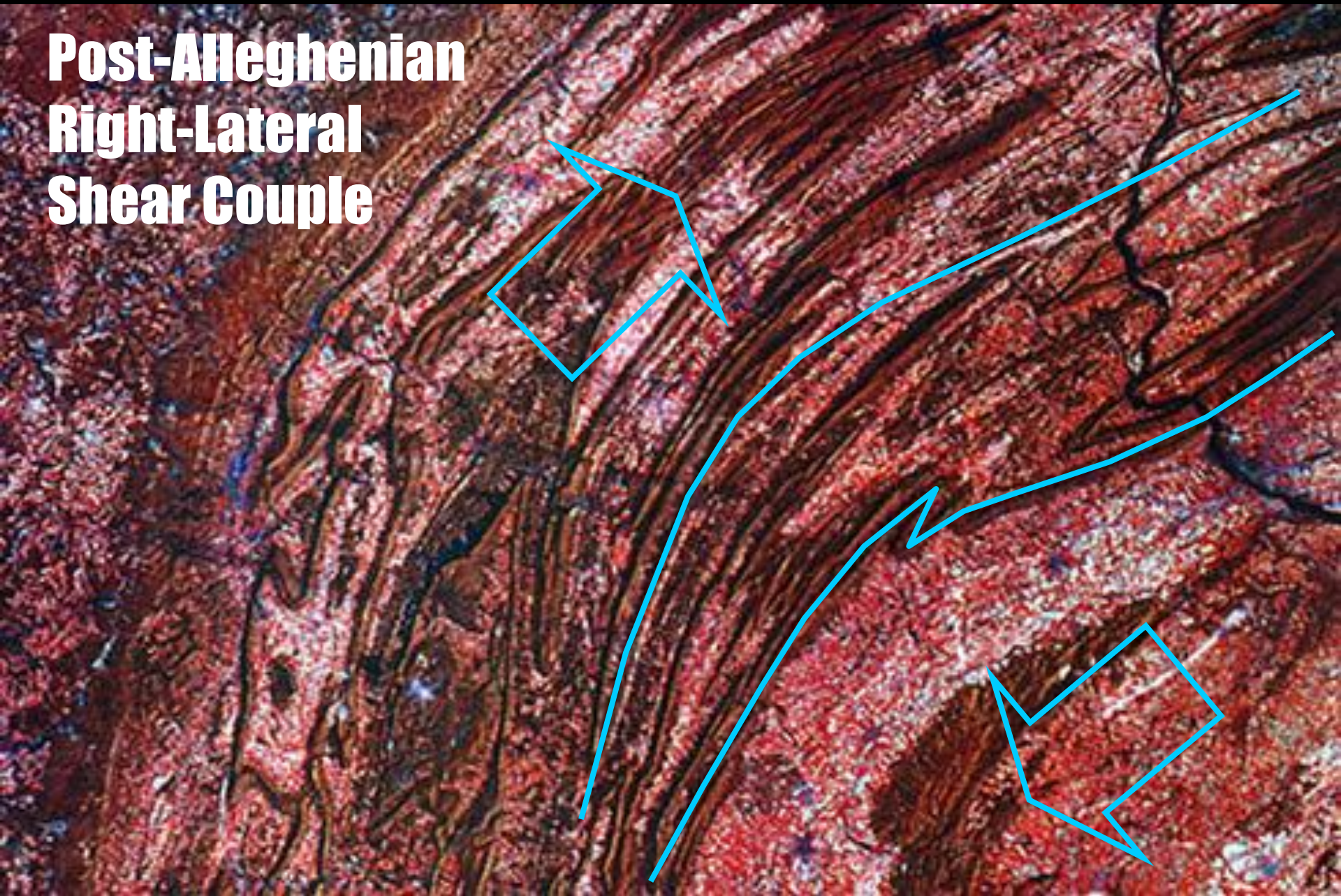


Sunrise Mtn. Folded Shawangunk Cgl.

S75°W@29°



Post-Alleghenian Right-Lateral Shear Couple



Come See Our Poster



