

Topic 02—The PA Flora from Macroevolutionary and Physiogeographical Perspectives

I. Overview of PA Flora

- A. Generalities
- B. Taxonomic Breakdown
- C. Important Families
- D. Important Genera

II. Physiogeography & the Flora

- A. Appalachian Plateaus
- B. Ridge & Valley
- C. Piedmont
- D. Coastal Plain
- (E.) Blue Ridge
- (F.) New England

III. Evolution of the Physiogeography & Flora

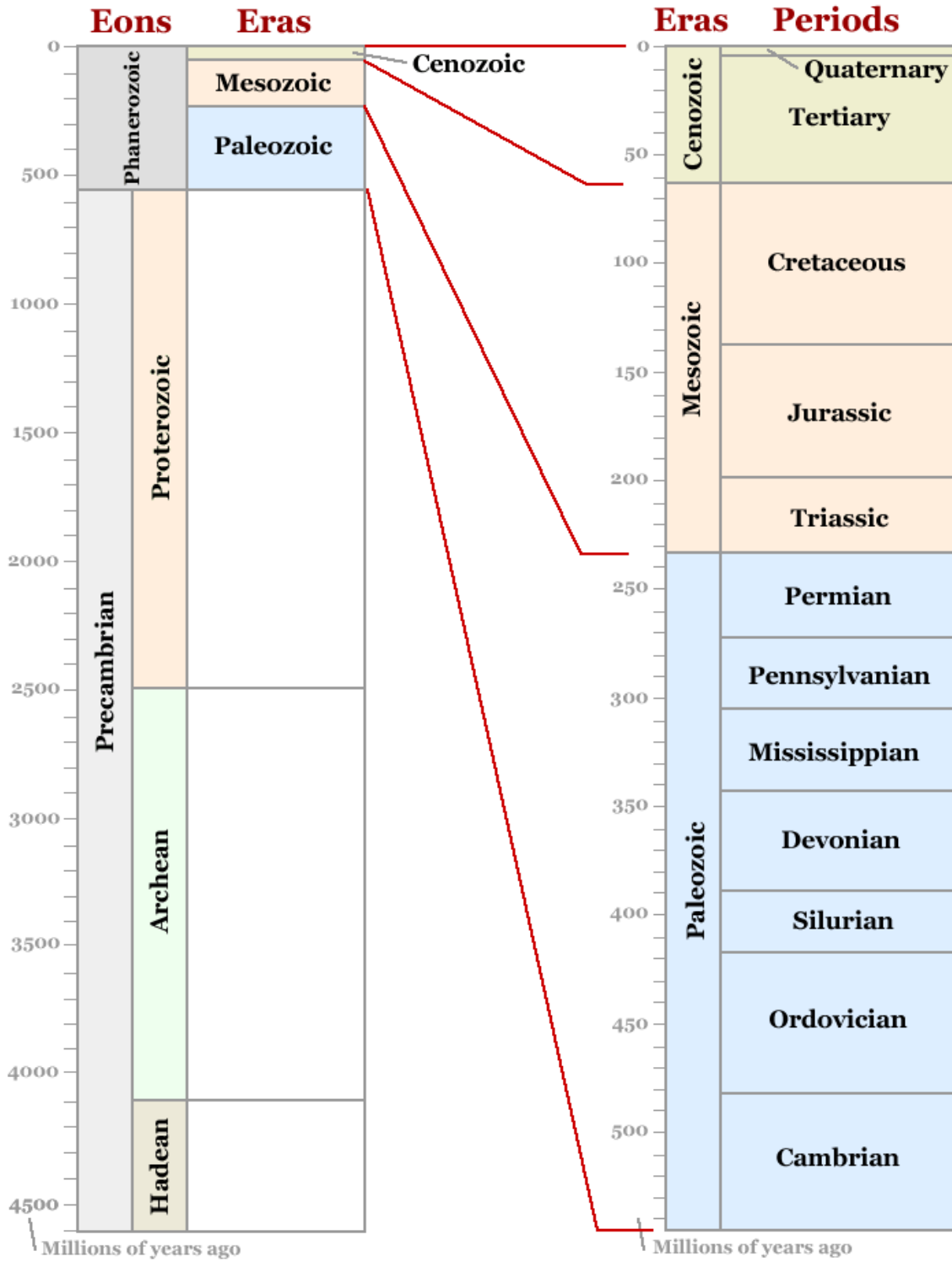
- A. Taconic Orogeny
- B. Post-Taconic Passive Phase
- C. Acadian Orogeny
- D. Post-Acadian Passive Phase
- E. Alleghenian Orogeny
- F. Pangean Passive Phase
- G. Mid-Jurassic Rifting Phase
- H. Isostatic rebounding & peripheral bulging

Required Reading:

1. Lab 01 – Introduction (handout), esp. Vascular Plant Phylogeny. Be able to relate Lycopods, Ferns, Gymnosperms, Cycads, Conifers, and Angiosperms to one another. Be able to place geologic periods and ages on the origin of vascular plants, lycopods and ferns, gymnosperms, and angiosperms.
2. Moyer SL, CR Hardy. 2016. Botany of the Luceille Hagarman Reading Sculpture Garden. *Parksia* 5: 1-10. Available at <http://herbarium.millersville.edu>.
3. Pages 5-7 in Rhoads & Block.
4. Page ix-xi in Wherry ET, JM Fogg, & HA Wahl. 1979. Atlas of the Flora of Pennsylvania. The Morris Arboretum, Philadelphia.

The particular section headers are “Introduction” (p. ix), “Nomenclature” (p. ix), “Geology of Pennsylvania in Relation to Plant Distribution” (pp. ix-x), and “Plants of Unusual Habitats” (p. xi).

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