



University of Kentucky
UKnowledge

Kentucky Geological Survey Map and Chart

Kentucky Geological Survey

2017

Kentucky Stratigraphy with Stage Correlations

Stephen F. Greb

University of Kentucky, greb@uky.edu

Right click to open a feedback form in a new tab to let us know how this document benefits you.

Follow this and additional works at: https://uknowledge.uky.edu/kgs_mc



Part of the [Geology Commons](#)

Repository Citation

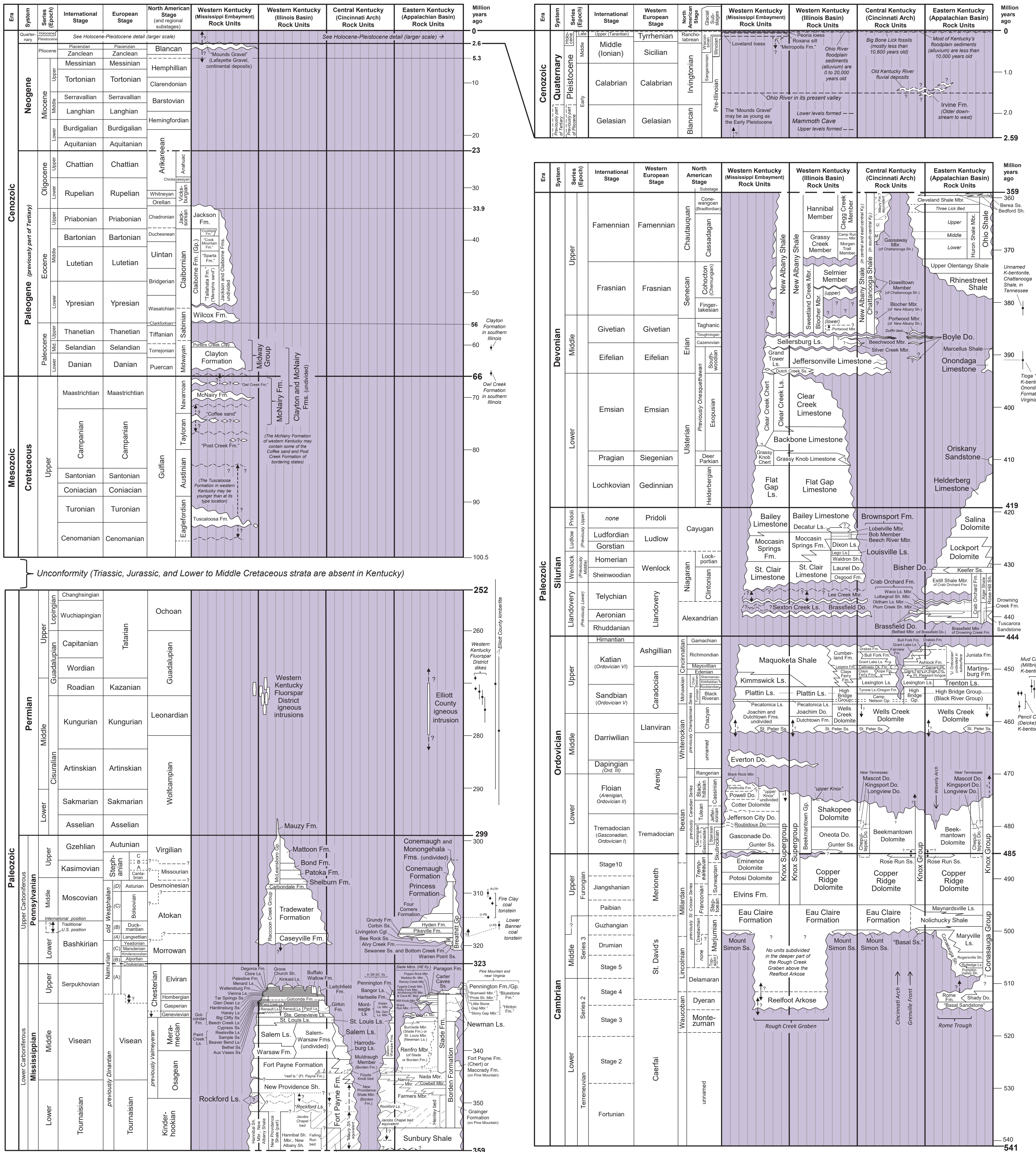
Greb, Stephen F., "Kentucky Stratigraphy with Stage Correlations" (2017). *Kentucky Geological Survey Map and Chart*. 209.
https://uknowledge.uky.edu/kgs_mc/209

This Map and Chart is brought to you for free and open access by the Kentucky Geological Survey at UKnowledge. It has been accepted for inclusion in Kentucky Geological Survey Map and Chart by an authorized administrator of UKnowledge. For more information, please contact UKnowledge@lsv.uky.edu.

Kentucky Stratigraphy

With Stage Correlations

Compiled by Stephen F. Greb



Explanation

This stratigraphic chart shows correlations of Kentucky rock units scaled to the International Commission on Stratigraphy time scale (Gradstein and others, 2012; Cohen and others, 2013). Rock-unit names for four general geologic regions of the commonwealth are provided: the Mississippi Embayment, Illinois Basin, Cincinnati Arch, and Appalachian Basin. Rock-unit names and correlations are updated from data collected for the Correlation of Stratigraphic Units of North America project (Patchen and others, 1984; Shaver, 1984), which was the last comprehensive correlation of Kentucky's rock-unit stratigraphy. Data on Quaternary sedimentary units are also included. This update is in response to changes to some of Kentucky's bedrock nomenclature, correlations of units, and changes in the geologic time scale (series and stage correlations and dates) since the COSUNA charts were published. The age of most units shown is relative and based on stratigraphic correlation. Numeric ages and correlations are subject to change, which is why periodic updates are needed to stratigraphic charts. More information concerning individual rock units, geologic time, and references can be found at the Kentucky Geological Survey website (www.uky.edu/KGS).

References Cited

Cohen, K.M., Finney, S.C., Gibbard, P.L., and Fan, J.-X., 2013, The ICS international chronostratigraphic chart: Episodes, v. 36, no. 3, p. 199-204.

Gradstein, F.M., Ogg, J., Schmitz, M.A., and Ogg, G., 2012, A geologic time scale 2012: International Commission on Stratigraphy, www.stratigraphy.org [accessed 12/2014].

Patchen, D.G., Avary, K.L., and Erwin, R.B., coords., 1984, Southern Appalachian Region: American Association of Petroleum Geologists, COSUNA Project, 1 sheet.

Shaver, R.H., coord., 1984, Midwest Basins and Arches Region: American Association of Petroleum Geologists, COSUNA Project, 1 sheet.



Statement of Benefit to Kentucky. This stratigraphic chart helps to show the rock units and their ages occurring in different parts of Kentucky. It also helps with correlations of units into other states and countries.

