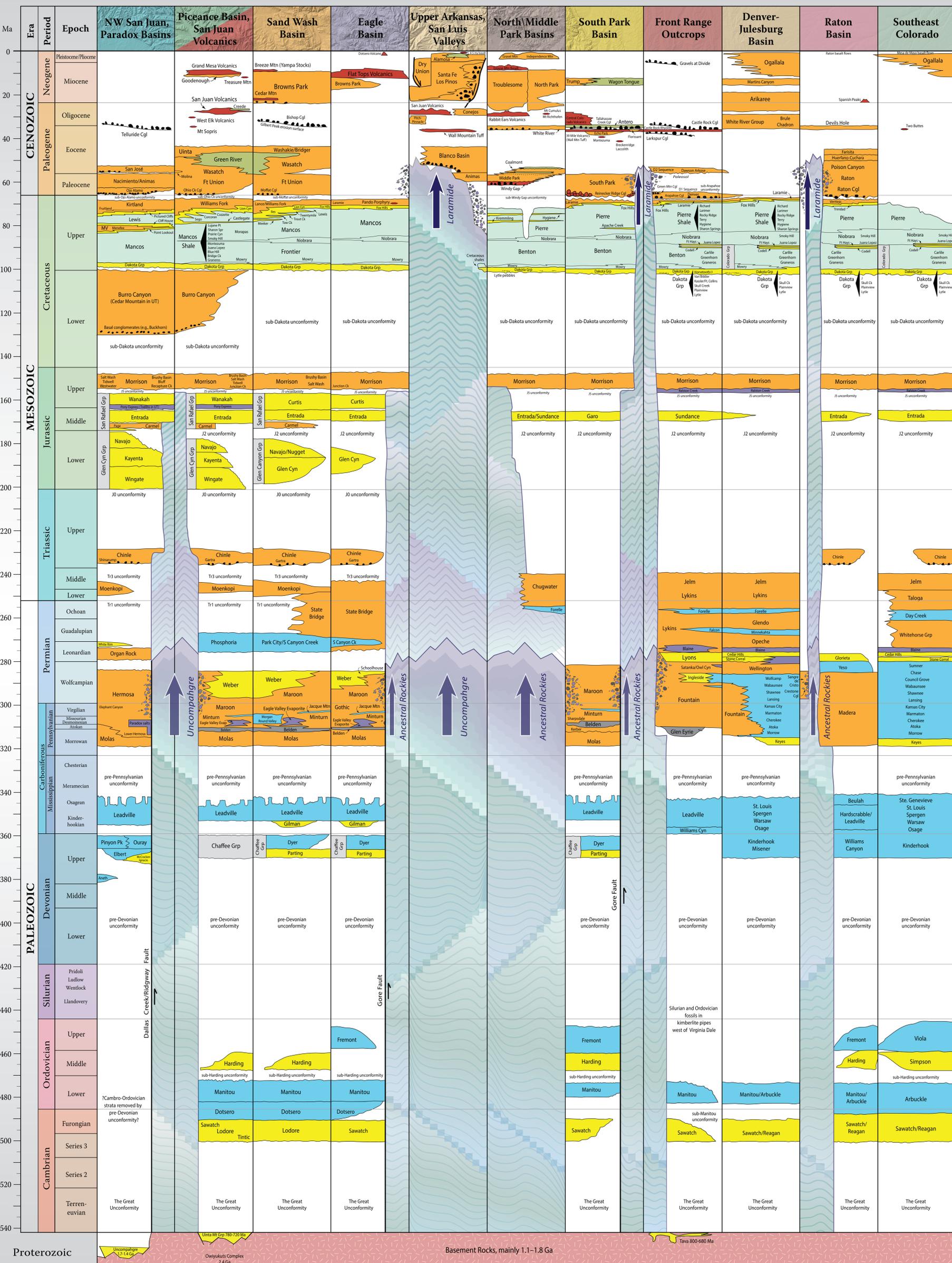


COLORADO STRATIGRAPHY CHART

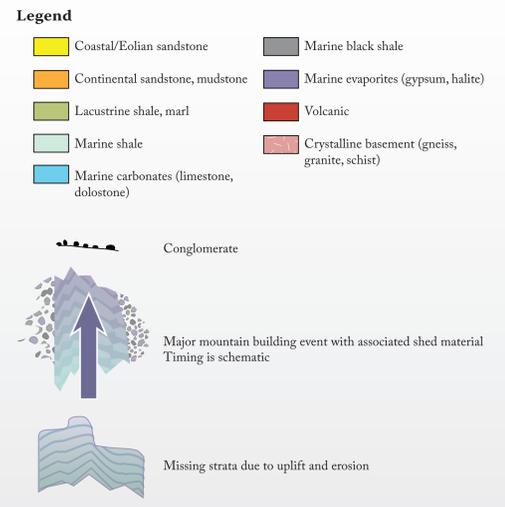
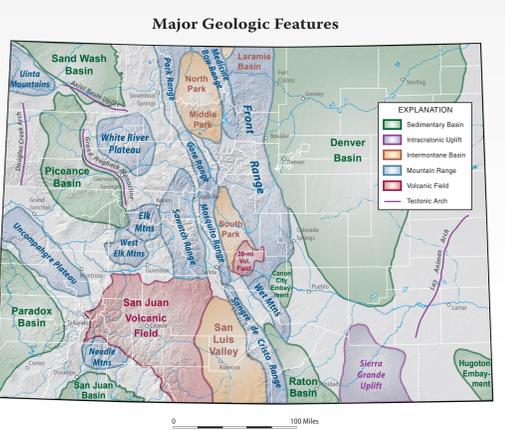
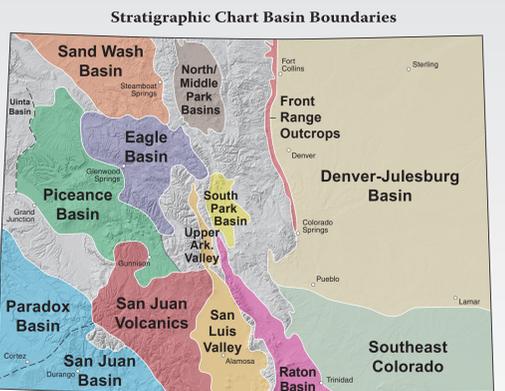
By Robert G. Raynolds and James W. Hagadorn
 2016



Stratigraphic Chart
 Colorado's stratigraphy is dominated by gaps. The distribution of strata reflects the tectonic and climatic evolution of each of the region's eleven basin areas, depicted in the map below. To foster comparison of these patterns, we have organized the stratigraphy using a linear timescale and illustrated where orogenic uplift has led to removal of strata or nondeposition. Not all orogenic features are illustrated on the chart. For example, some orogenies caused sediment ponding and accumulation in intermontane basins, such as during the Laramide in northwestern Colorado. In the past ~10 Ma, regional uplift has raised Colorado and has allowed the modern landscapes to be created due to erosion. The chart's color scheme for stratigraphic units gives a sense of dominant lithologies and depositional environments across basins.

Updates to this chart, as well as additional stratigraphic resources, such as stratigraphic and structural cross-sections, can be found at coloradostratigraphy.org. To learn more about the unit names on this chart, resources are available at the U.S. Geological Survey's Geolex site: <http://ngmdb.usgs.gov/Geolex>.

This chart scaffolds on the work of Richard H. Pearl's 1977 compilation (Rocky Mountain Association of Geologists, Special Publication 2). With the exception of the Carboniferous and Permian periods, this data has been re-cast against the International Commission on Stratigraphy's chronostratigraphic chart v.2015/01, updated at <http://stratigraphy.org>.



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Proterozoic
 Uncompangre (7.14 Ga)
 Owyukuts Complex (2.4 Ga)
 Basement Rocks, mainly 1.1-1.8 Ga
 Tiva 800-680 Ma