

GEOL 104 Dinosaurs: A Natural History
Dinosaur Faunal Assemblages Through Time and Space

Epoch	Fauna	Place	Top Predator	Top Herbivores	Western North American Example	Non-western North American Example
Late Cretaceous	Tyrannosaur-Hadrosaur-Ceratopsian	Asia, North America	Tyrannosaurids	Hadrosaurs, Ceratopsians, Ankylosaurs, Pachycephalosaurs	Montana Group; Belly River Group; others	Nemegt Fm., Mongolia
Late Cretaceous	Maniraptoran-Ceratopsian-Ankylosaur (late)	Asia (deserts)	Dromaeosaurs	Ceratopsians, Ankylosaurids, Pachycephalosaurs, Therizinosauroids	N/A	Djadokhta Fm., Mongolia
Late Cretaceous	Abelosaur-Titanosaur	Europe, Gondwana	Abelisauroids	Titanosaurs	N/A	various
late Early Cretaceous-early Late Cretaceous	Spinosaur-Carnosaur-Titanosaur	Gondwana	Spinosaurs, Carnosaurs	Titanosaurs	N/A	Elrhaz Fm., Niger; Huincul Fm., Argentina; Bahariya Fm., Egypt
Early Cretaceous	Maniraptoran-Ceratopsian-Ankylosaur (early)	Asia	Dromaeosaurs	Ceratopsians, Ankylosaurs, Therizinosauroids	N/A	Jehol Group., China
late Early Cretaceous	Carnosaur-Iguanodontian-Ankylosaur (late)	North America, Europe	Carnosaurs, Dromaeosaurs	Iguanodontians, Ankylosaurs, Titanosaurs	Cloverly Fm.	Arundel Fm., PG County, MD
early Early Cretaceous	Carnosaur-Iguanodontian-Ankylosaur (early)	North America, Europe, ?Asia	Carnosaurs, Spinosaurs, Dromaeosaurs	Iguanodontians, Ankylosaurs, Sauropods	Cedar Mountain Fm.	Wealden Group, Europe
Late Jurassic	Carnosaur-Sauropod-Stegosaur (late)	Global	Carnosaurs, Ceratosaurs, Megalosaurs	Sauropods, Stegosaurs	Morrison Fm.	Tendaguru Fm., Tanzania
Middle Jurassic	Carnosaur-Sauropod-Stegosaur (early)	Global	Carnosaurs, Megalosaurs	Sauropods, Stegosaurs	None preserved	various
Early Jurassic	Coelophysoid-Prosauropod (late)	Global	Coelophysoids	Prosauropods, basal Thyreophorans, Heterodontosaurs	Kayenta Fm.	Newark Supergroup, eastern North America
Late Triassic	Coelophysoid-Prosauropod (early)	Global	Non-dinosaurs, Coelophysoids	Prosauropods, few basal Ornithischians	Chinle Fm.	various
Late Triassic	Basal Dinosaur	Global	Non-dinosaurs, Herrerasaurs	Non-dinosaurs, Prosauropods, few basal Ornithischians	None preserved	Ischigualasto Fm., Argentina

Fm. = Formation