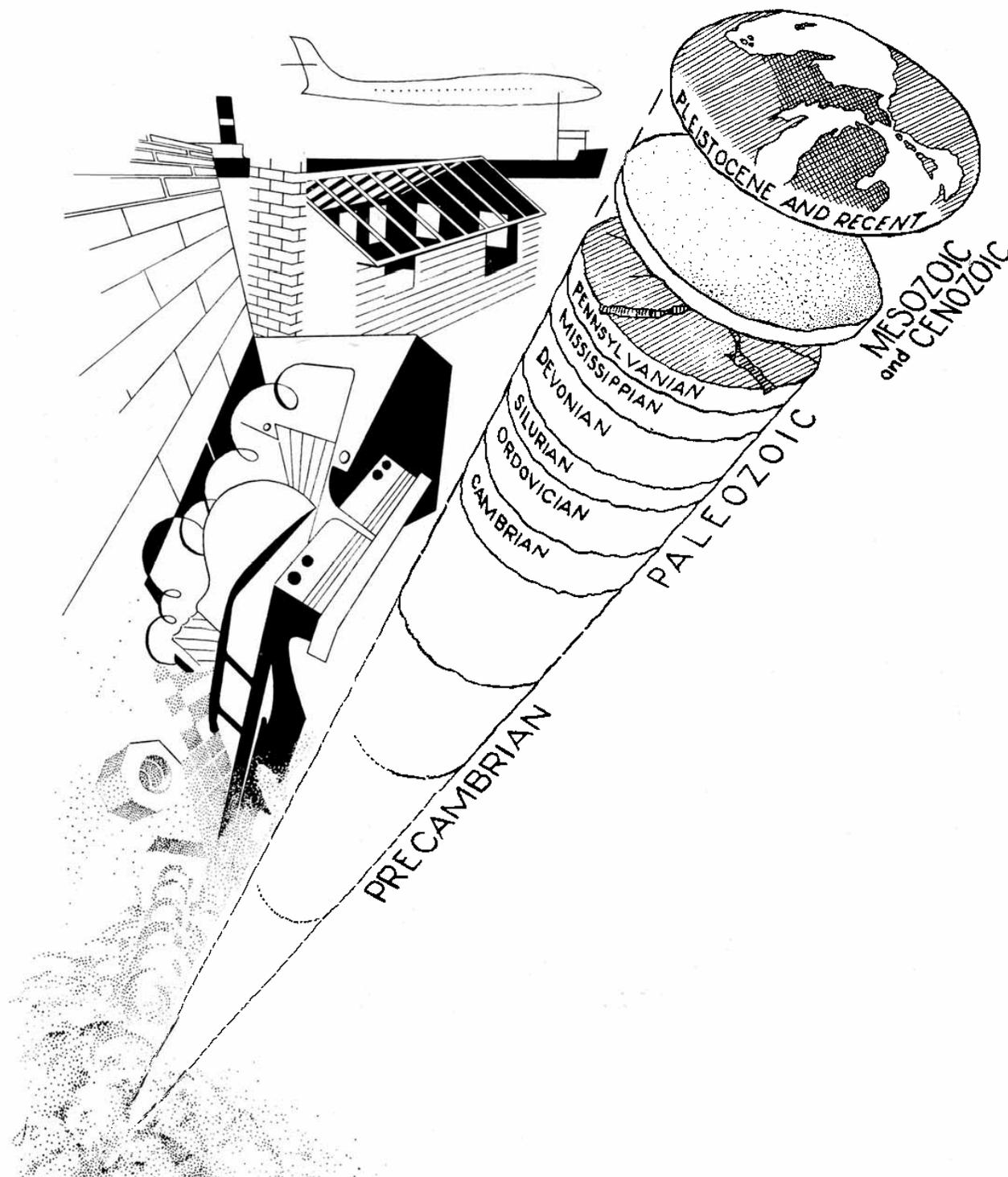
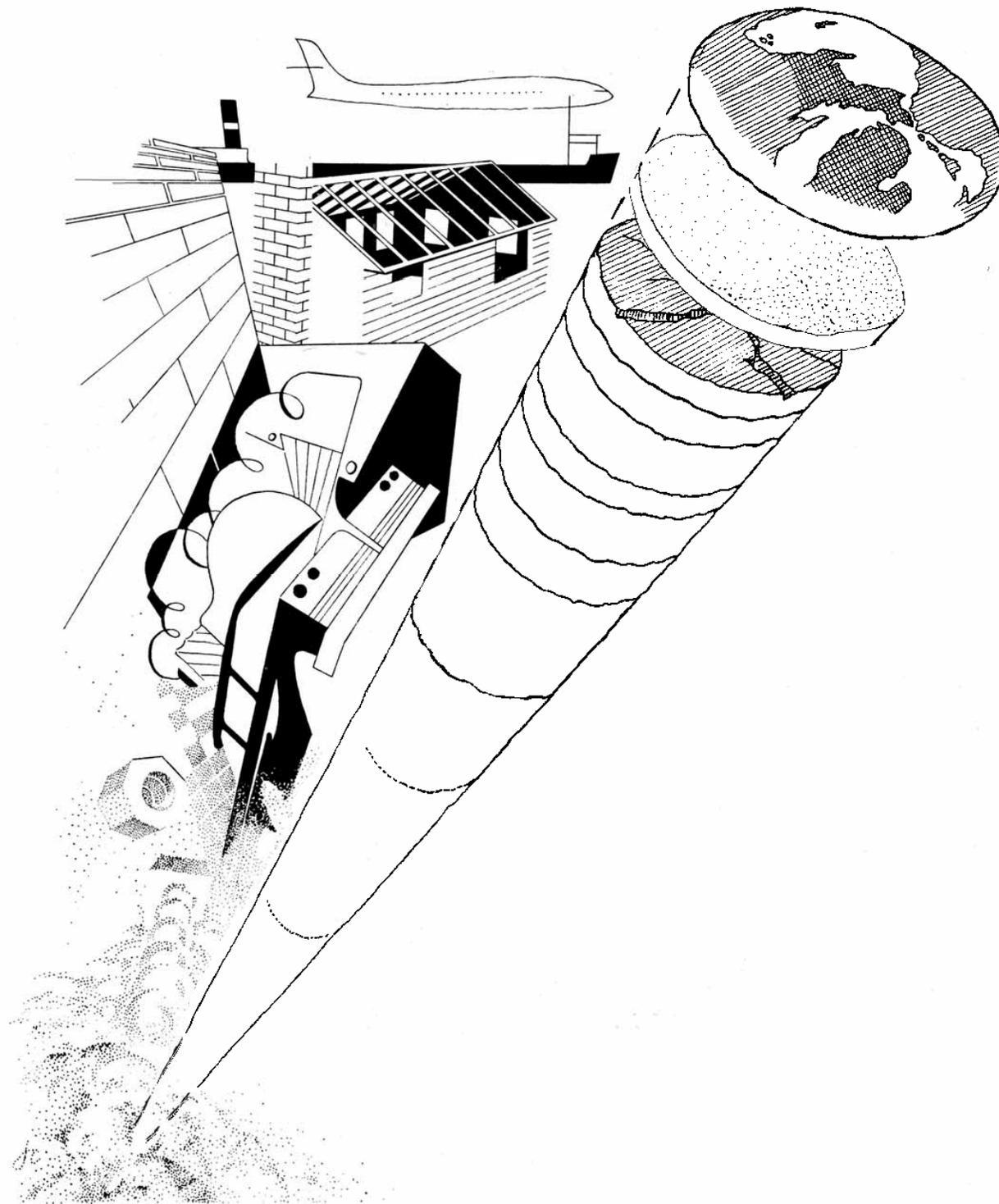


What is the name for the geologic time division that is not labeled?



What is the name for the geologic time division that is not labeled?

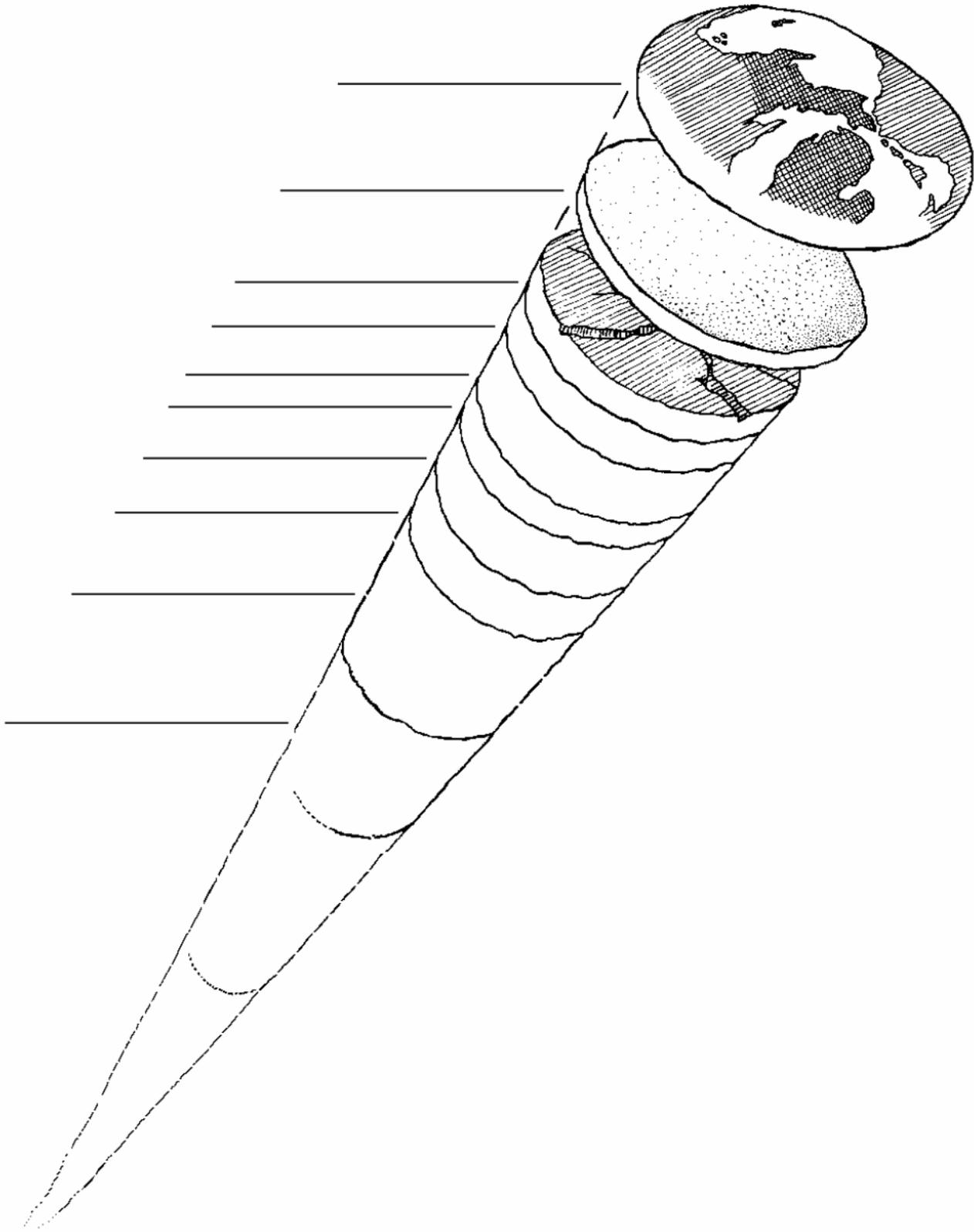
Label on the drawing above where the following **NON-RENEWABLE MINERAL RESOURCES** belong: brine, clay, copper, gas, gravel, gypsum, iron, limestone, marl, oil, peat, salt, sand, shale, water



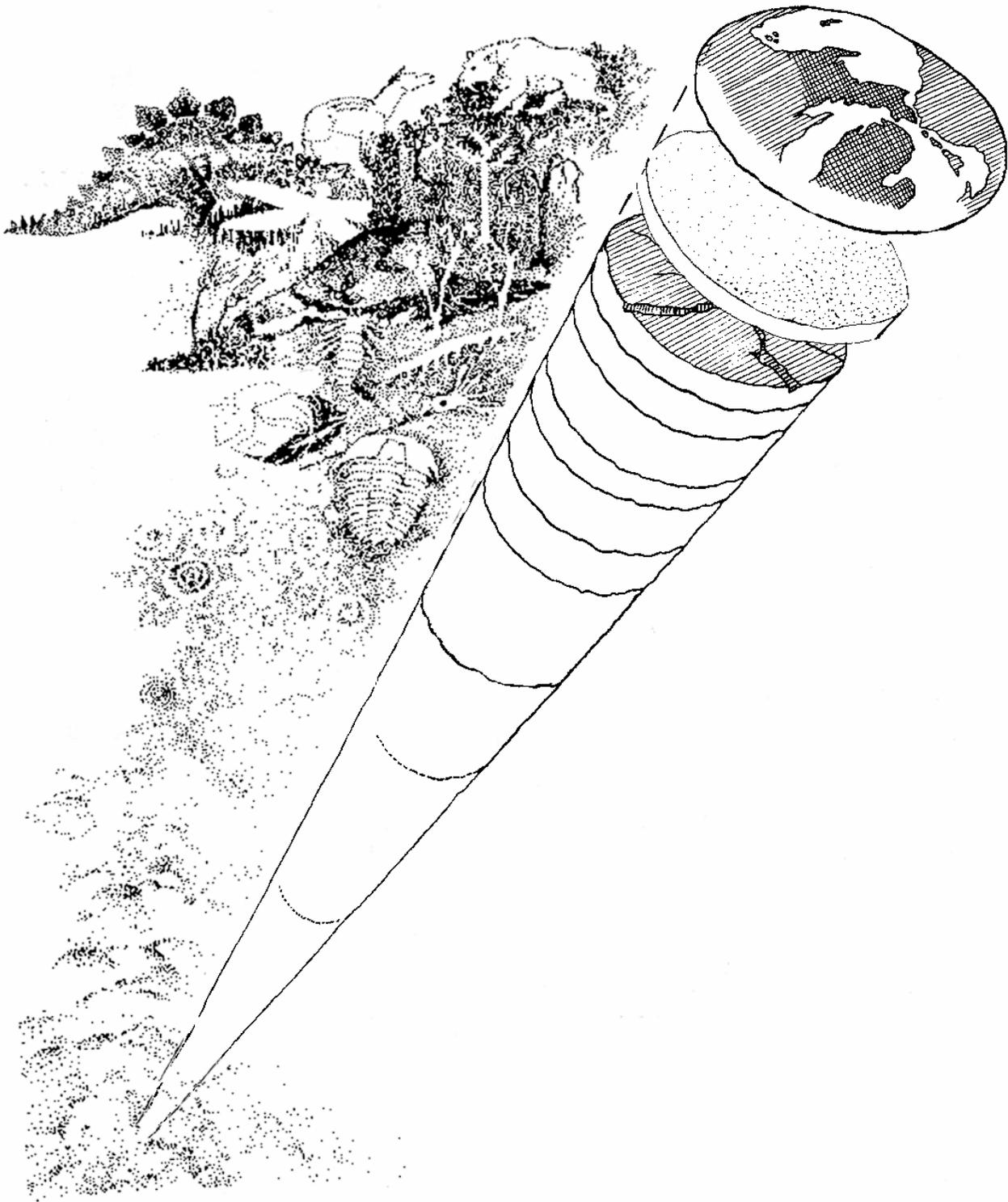
Label on the drawing above where the following **GEOLOGIC TIME DIVISIONS** belong: Cambrian, Cenozoic, Cretaceous, Devonian, Jurassic, Mesozoic, Mississippian, Ordovician, Paleozoic, Pennsylvanian, Permian, Pleistocene, Precambrian, Recent, Silurian, Triassic

Label on the drawing above where the following **NON-RENEWABLE MINERAL RESOURCES** belong: brine, clay, copper, gas, gravel, gypsum, iron, limestone, marl, oil, peat, salt, sand, shale, water



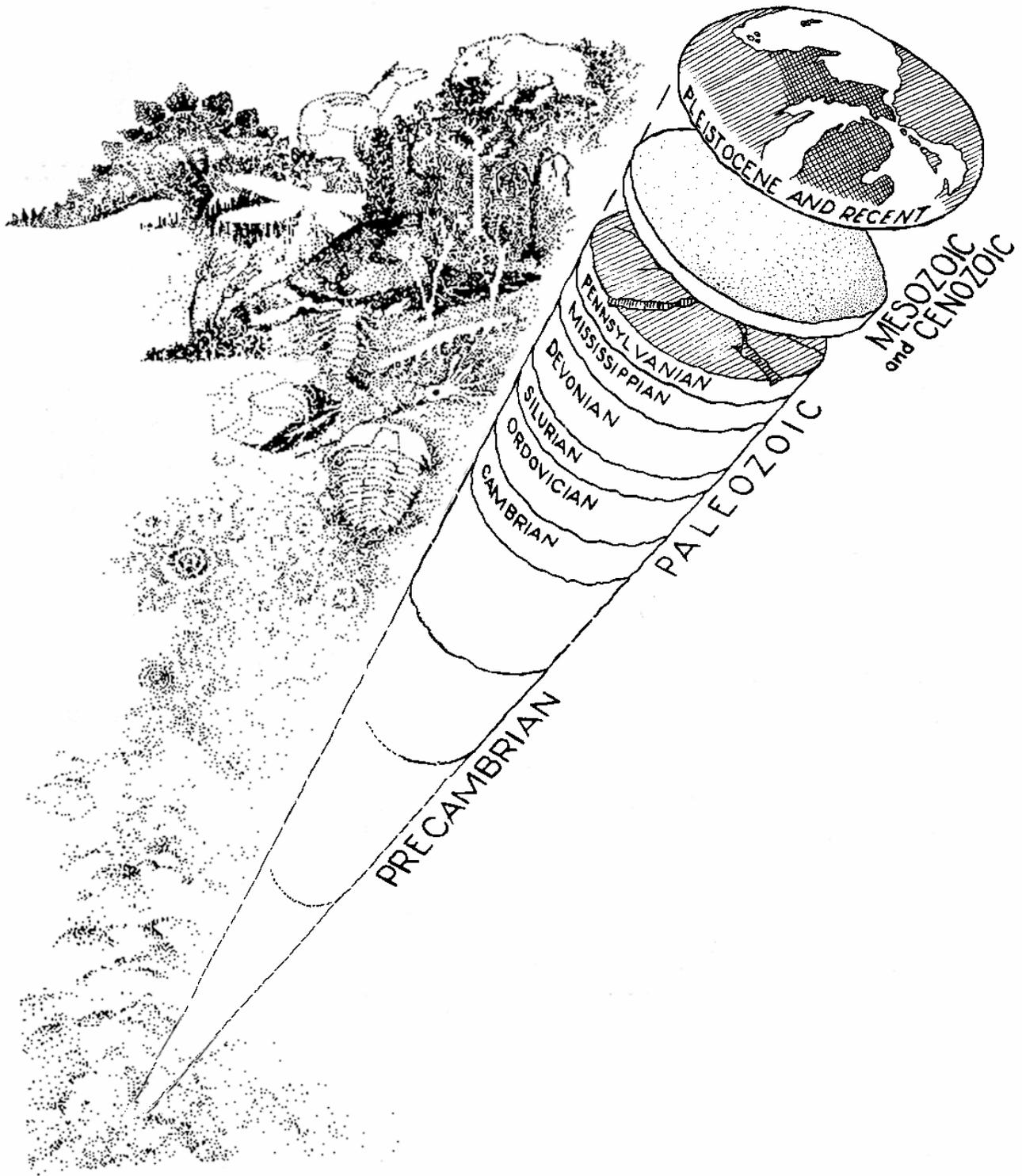


Label on the drawing above where the following **GEOLOGIC TIME DIVISIONS** belong: Cambrian, Cenozoic, Cretaceous, Devonian, Jurassic, Mesozoic, Mississippian, Ordovician, Paleozoic, Pennsylvanian, Permian, Pleistocene, Precambrian, Recent, Silurian, Triassic



Label on the drawing above where the following **LIFE FORMS** belong: amphibians, brachiopods, corals, crinoids, dinosaurs, eukaryotic algae, fishes, flowering plants, humans, insects, land plants, mammals, mammoths, mastodons, reptiles, stromatolites, trilobites

Label on the drawing above where the following **GEOLOGIC TIME DIVISIONS** belong: Cambrian, Cenozoic, Cretaceous, Devonian, Jurassic, Mesozoic, Mississippian, Ordovician, Paleozoic, Pennsylvanian, Permian, Pleistocene, Precambrian, Recent, Silurian, Triassic



Label on the drawing above where the following **LIFE FORMS** belong: amphibians, brachiopods, corals, crinoids, dinosaurs, eukaryotic algae, fishes, flowering plants, humans, insects, land plants, mammals, mammoths, mastodons, reptiles, stromatolites, trilobites

What is the name for the geologic time division that is not labeled?

Amphibians
Banded Iron Formation
Cambrian period
Copper emplaced in the UP
corals
Cretaceous period
crinoids
Devonian period
dinosaur
mammoth
dinosaurs become extinct
Earth forms
eukaryotic algae
fish
flowering plants
insects
Jurassic period
land plants
mammals
mastodons

Mississippian period
Modern humans
Moon forms
Oceans and atmosphere form
Oldest evidence of life
Ordovician period
oxygen
ozone
Pennsylvanian period
Permian period
Pleistocene epoch
Precambrian time
reptiles
Silurian period
stromatolite
Triassic period
trilobites

cut these words and phrases out, trim as needed. Tape or glue them on the appropriate place on your Time Line work sheets or tape them together in a biological or geological time sequence.



## "Answers" to worksheets

Students should mark their answers on the work sheets. The following information is provided to help evaluate the students work.

Label where the following **NON-RENEWABLE MINERAL RESOURCES** belong:

Pleistocene - clay, gravel, marl, peat, sand, water

Paleozoic - brine, gas, gypsum, limestone, oil, salt, sand, shale, water

Precambrian - copper, iron

Label where the following **GEOLOGIC TIME DIVISIONS** belong:

**Cenozoic** - Pleistocene, Recent;

**Mesozoic** - *Cretaceous, Jurassic*, Triassic (Triassic is not labeled due to the thinness of this segment);

**Paleozoic** - *Permian, Pennsylvanian, Mississippian, Devonian, Silurian, Ordovician, Cambrian*;

**Precambrian time**

Items in italics and underlined are *Not known in Michigan*

See table in the next column for a quick chronological summary of life forms and geologic time sequences.

Life form / geologic time	MYBP
Modern humans	100,000
Pleistocene epoch	1,800,000
stromatolite	3,500,000
mammoth	10,000,000
mastodons	37,000,000
dinosaurs become extinct	65,000,000
Cretaceous period	144,000,000
flowering plants	144,000,000
Jurassic period	206,000,000
dinosaur / mammals	245,000,000
mammals/ dinosaur	245,000,000
Triassic period	248,000,000
Permian period	290,000,000
reptiles	320,000,000
Pennsylvanian period	323,000,000
insects	350,000,000
Mississippian period	354,000,000
amphibians	400,000,000
Devonian period	417,000,000
land plants	435,000,000
Silurian period	443,000,000
crinoids	490,000,000
Ordovician period	490,000,000
corals /fish	505,000,000
fish / corals	505,000,000
brachiopods	540,000,000
Cambrian period	543,000,000
trilobites	570,000,000
Copper emplaced in the UP	1,060,000,000
eukaryotic algae	2,000,000,000
Banded Iron Formation / oxygen/ozone	2,000,000,000
Oceans / atmosphere / Oldest life	3,800,000,000
Moon forms	4,500,000,000
Precambrian time	4,500,000,000
Earth forms	4,600,000,000