

JOURNEY THROUGH TIME: THE STORY OF PALEOCLIMATOLOGY



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**Understanding the past helps us
protect the future.**

TIMELINE OF PALEOClimatology

Eras (0-2025CE)



900-1300 CE - medieval warm period

- Climate: Cooler temperatures (Medieval Warm Period, then Little Ice Age started).
- Food: Bread, meat, soups, and ale.
- Clothing: Heavy wool garments; nobles wore colorful robes and jewelry.
- Paleoclimatology: No scientific tools yet; monks and farmers recorded unusual weather in chronicles.



1850-1950 CE - industrial era and early

- Climate: Temperatures slowly rise after the Little Ice Age.
- Food: Industrial food production begins — bread, canned goods, and sugar.
- Clothing: Cotton becomes common; simple but durable factory-made clothes.
- Paleoclimatology: Discovery of ice ages; scientists study fossils, sediments, and glaciers to learn about past climates.



2000-2025 CE - contemporary climate

- 2000 - 2025 (Contemporary Period)
- Climate: Global warming and extreme weather events increase.
 - Food: Organic, vegan, and sustainable diets become popular.
 - Clothing: Eco-friendly materials and recycled fashion.
 - Paleoclimatology today: Scientists use AI, satellites, and deep-sea cores to understand climate history and predict the future.

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0-900 CE - Román warm period

- Climate: Warm period in Europe and Asia (Roman Warm Period).
- Food: Bread, olives, fish, fruits, and wine.
- Clothing: Tunics, togas, and sandals made of wool and linen.
- Paleoclimatology: People used natural signs (stars, crops, and animal behavior) to predict weather.



1300-1850 CE - little ice age

- Climate: The Little Ice Age caused harsh winters and crop failures.
- Food: Stews, grains, fruits, and exotic spices brought from trade routes.
- Clothing: Elegant silk, lace, and elaborate hats for the upper class.
- Science: First thermometers and barometers invented; scientists began recording temperature data.



1980-2000 CE - rapid advanced in climate

- Climate: Rapid warming begins in mid-20th century.
- Food: Fast food, global cuisines, and processed products.
- Clothing: Jeans, t-shirts, and modern fabrics like polyester.
- Paleoclimatology: Ice core studies reveal CO₂ patterns; satellites start measuring global temperatures.



GLOSSARY

Paleoclimatology

the study of past climates

Proxy

an indirect measure of climate

Ice core

a core sample from a glacier or ice

Tree ring

a layer of growth in a tree's annual

Sediment

deposits laid down in lakes or oceans

Isotope

an atomic variant with a different mass

Paleotempestology

the study of ancient storms

Paleosol

a fossil soil

Speleothem

a cave formation such as a stalactite

Pollen

a powdery substance produced by plants

Radiocarbon

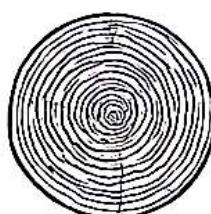
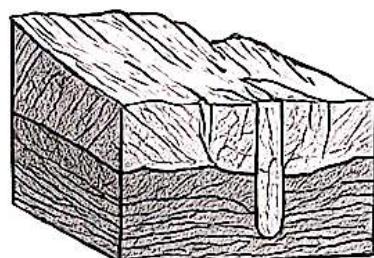
an isotope of carbon used for dating

Paleoenvironment

an ancient environment

Paleobotany

the study of ancient



Dendroclimatology

the study of climate using tree rings

Paleolimnology

the study of ancient lake environments

Paleotempestology

the study of ancient storms

Paleoshoreline

an ancient shoreline

Paleobotany

the study of ancient plants

Paleosols

ancient soils

Paleoseismology

the study of ancient earthquakes

Paleotempestology

the study of ancient storms

Paleoceanography

the study of ancient oceans

Paleoclimatology

the study of past climates

Paleoecology

the study of ancient ecosystems

Paleostratigraphy

the study of ancient rock layers

Paleoanthropology

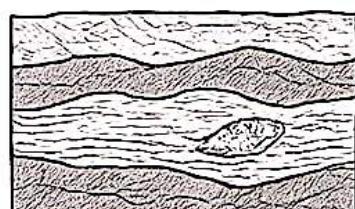
the study of human prehistory

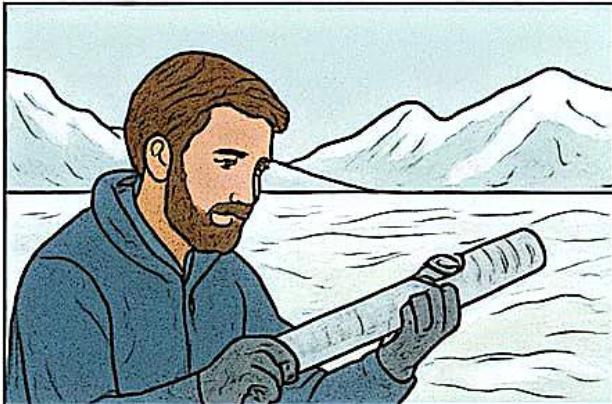
Climatic

relating to
climate

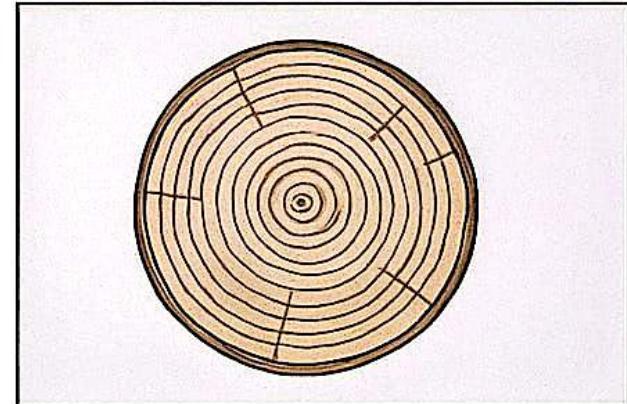
Proxy

an indirect measure of climate

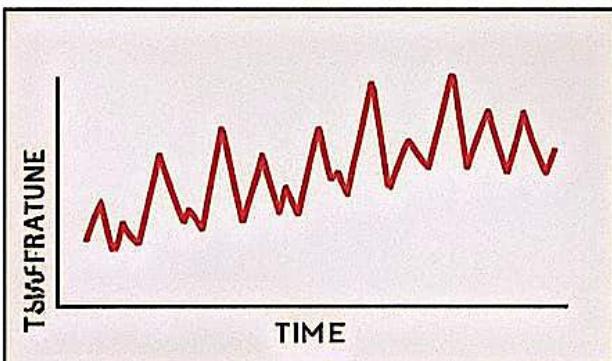




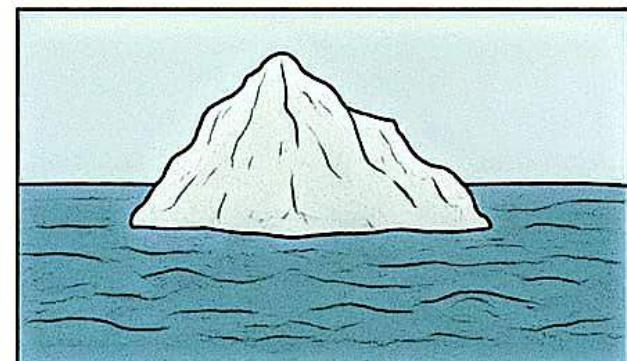
**Paleoclimatology is
the study of past climates**



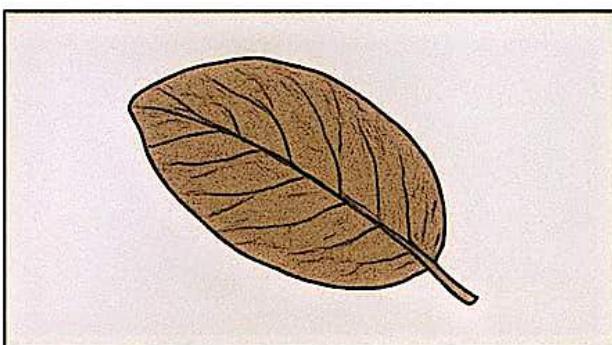
**Tree rings provide
evidence of past climate**



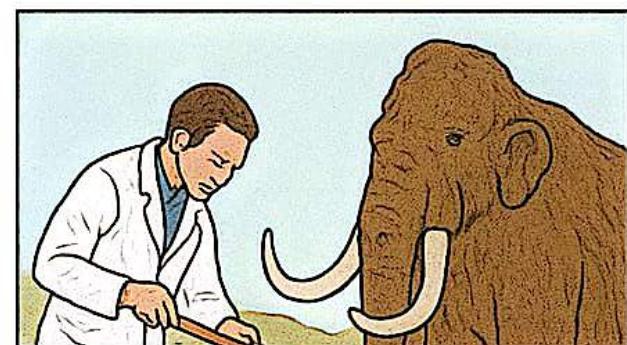
**Sediment cores show
changes in past climates**



**Ice cores provide
information about past**



**Fossils help reconstruct
ancient environments**



**Ancient soils provide
information about past**

