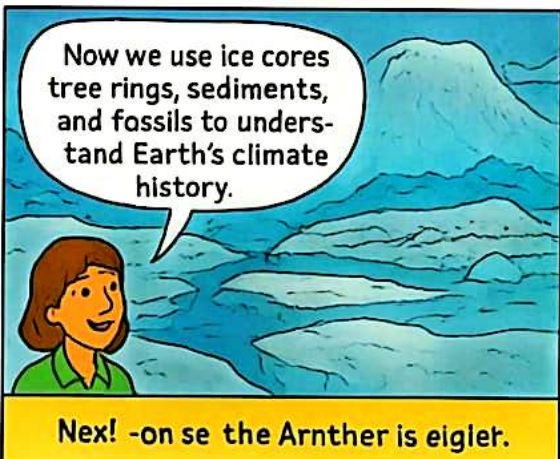
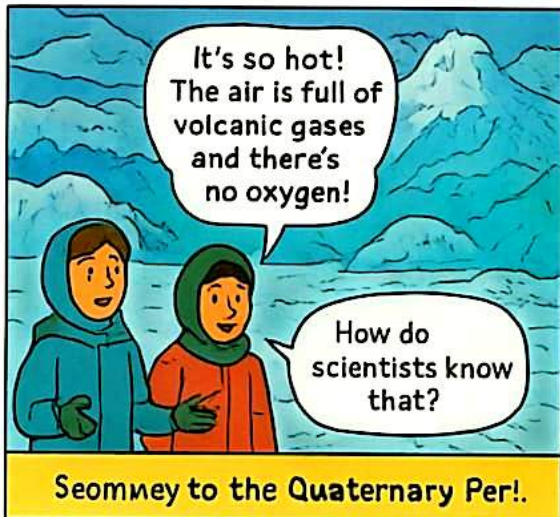


# JOURNEY THROUGH TIME: THE STORY OF PALEOCLIMATOLOGY



I hope you like our comic 😊!!

**Jandy Torres**  
**Milagro Urdaneta**  
**Nasly Rodríguez**  
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**902**

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



# TIMELINE OF PALEOCLIMATOLOGY

Eras (0-2025CE)



## 900-1300 CE- medieval warm period

- Climate: Cooler temperatures (Medieval Cold Period, then Little Ice Age starts).
- Food: Bread, meat, soups, and ale.
- Clothing: Heavy wool garments; nobles wore colorful robes and jewelry.
- Paleoclimatology progress: 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 knowledge: 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 CO<sub>2</sub> 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**

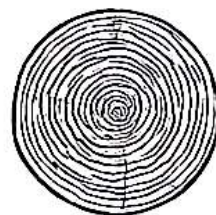
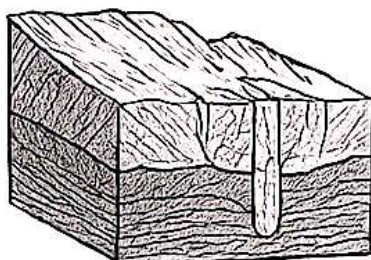
an isotope of carbon used for dating

**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**

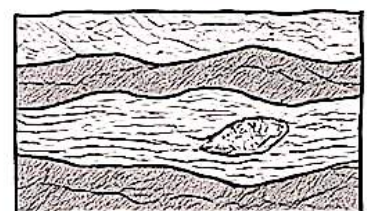
the study of human prehistory

**Climatic**

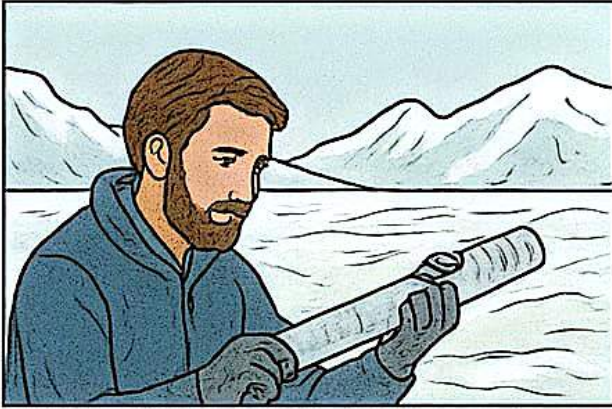
relating to climate

**Proxy**

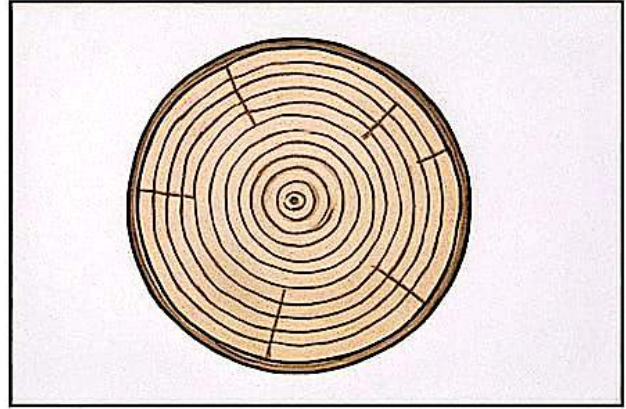
an indirect measure of climate



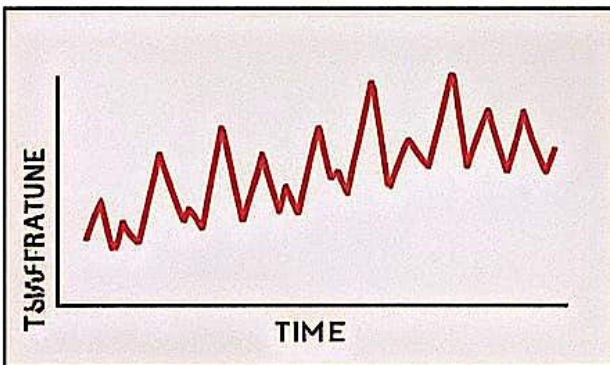




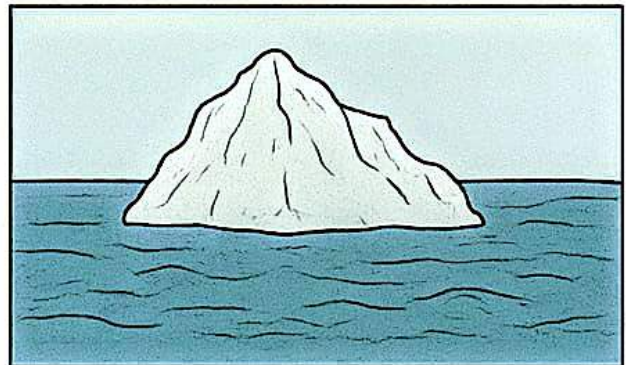
**Paleoclimatology is the study of past climates**



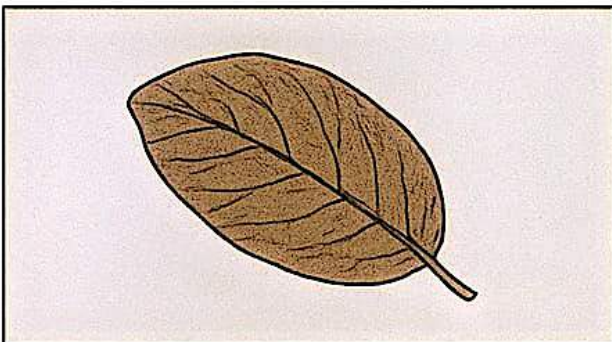
**Tree rings provide evidence of past climate**



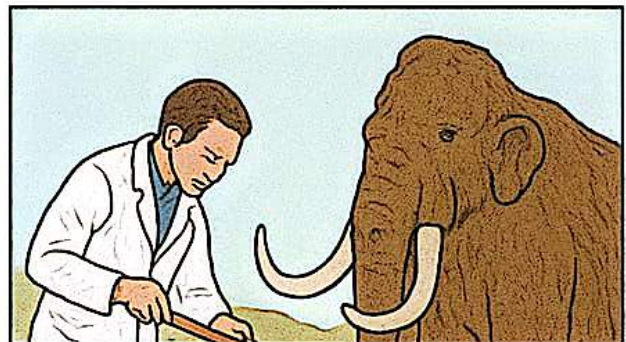
**Sediment cores show changes in past climates**



**Ice cores provide information about past**



**Fossils help reconstruct ancient environments**



**Ancient soils provide information about past**

