



# TIME FORMATS

UNIT 1: INTRODUCTION TO  
OCEANS AND CLIMATE

OCTOBER 17<sup>TH</sup>, 2019

WHAT ARE WAYS  
IN WHICH WE  
MEASURE TIME?

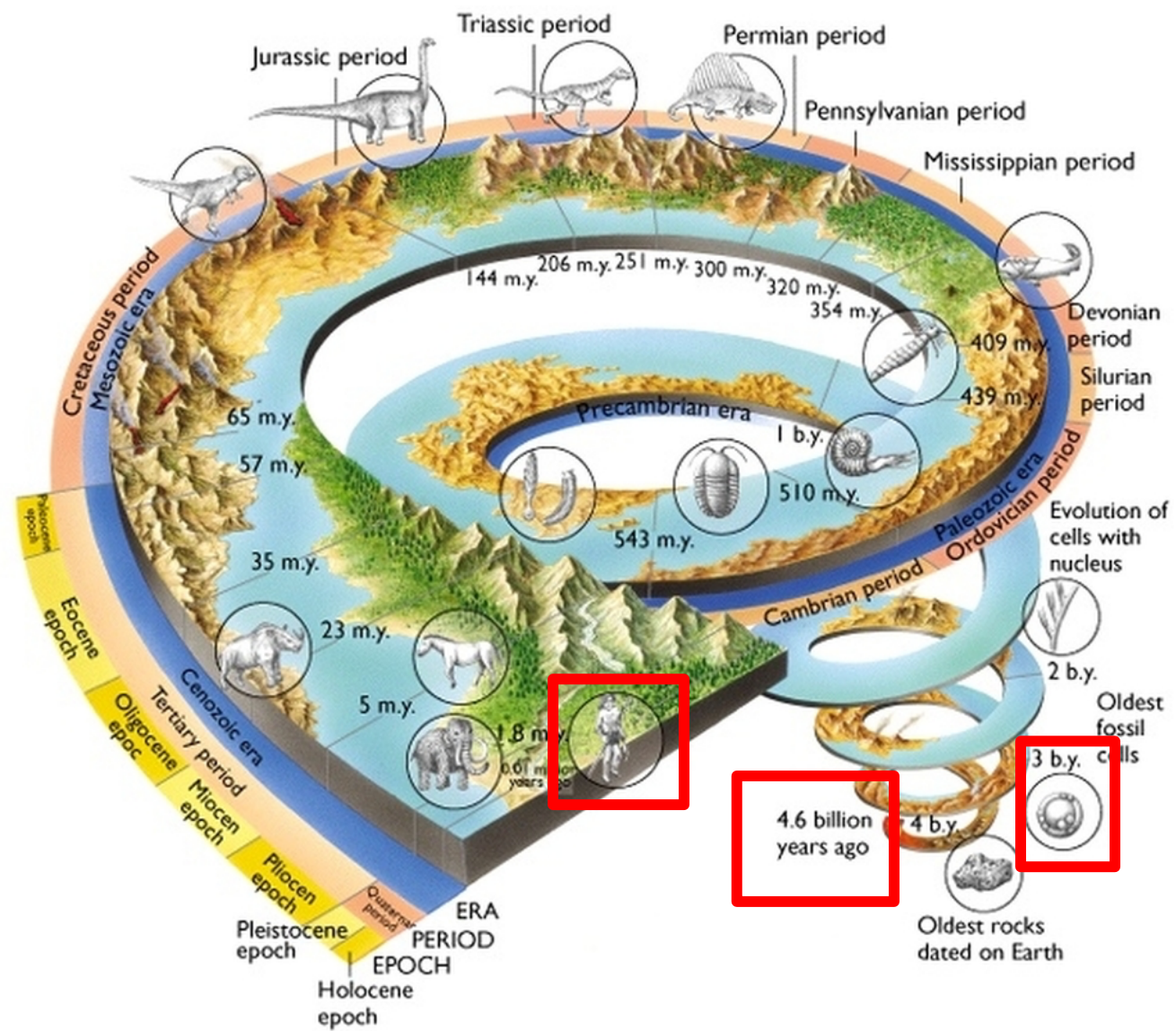


# GREGORIAN CALENDAR

- The calendar we are familiar with is based on the Earth's seasons
- It was initially created by the Romans so some of our months are named after famous figures from the Period
  - July is for Julius Caesar
- It's not the most accurate calendar.
  - Here's why: [https://youtu.be/YTOr8\\_ILqGw](https://youtu.be/YTOr8_ILqGw)

# GEOLOGIC TIME SCALE

- The geologic time scale is most often used by Earth scientists to describe Earth's history.
- It tracks back number of years from the present.
  - Jurassic period was 200 millions years ago or 200 Ma
- On your geologic time scale,
  - When was the Earth created?
  - When did life first appear on Earth?
  - When did humans come into the picture?



# DATETIME MODULE

- Since we we'll be looking at changes in climate 200 - 400 years ago which is well within human time scales, we'll talking about time in the familiar Gregorian format.
- We'll be using two time formats from the datetime module:
  - The datetime class
    - `datetime.datetime(year, month, day, hour = 0, minute = 0, second = 0, microsecond = 0)`
  - The timedelta class
    - `datetime.timedelta(days=0, seconds=0, microseconds=0, milliseconds=0, minutes=0, hours=0, weeks=0)`