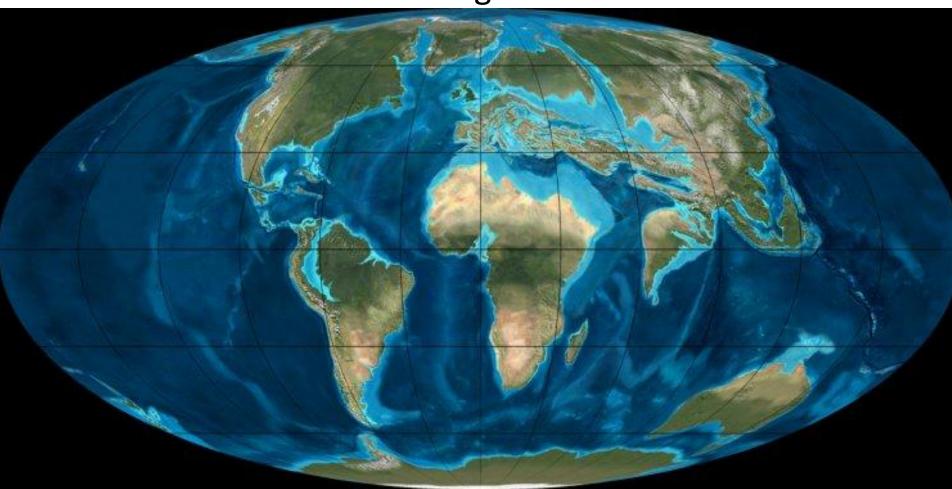
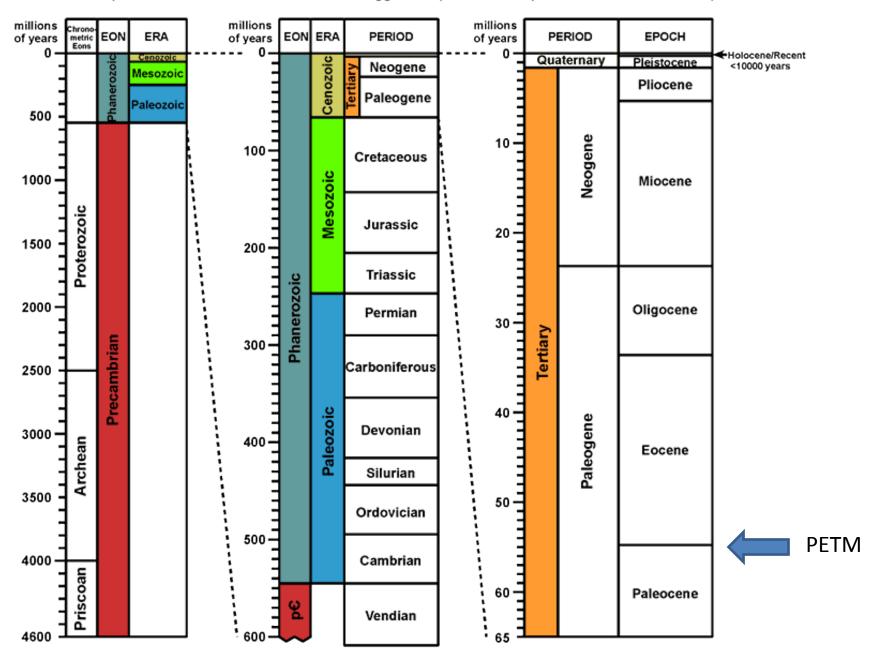
The Paleocene-Eocene Thermal Maximum

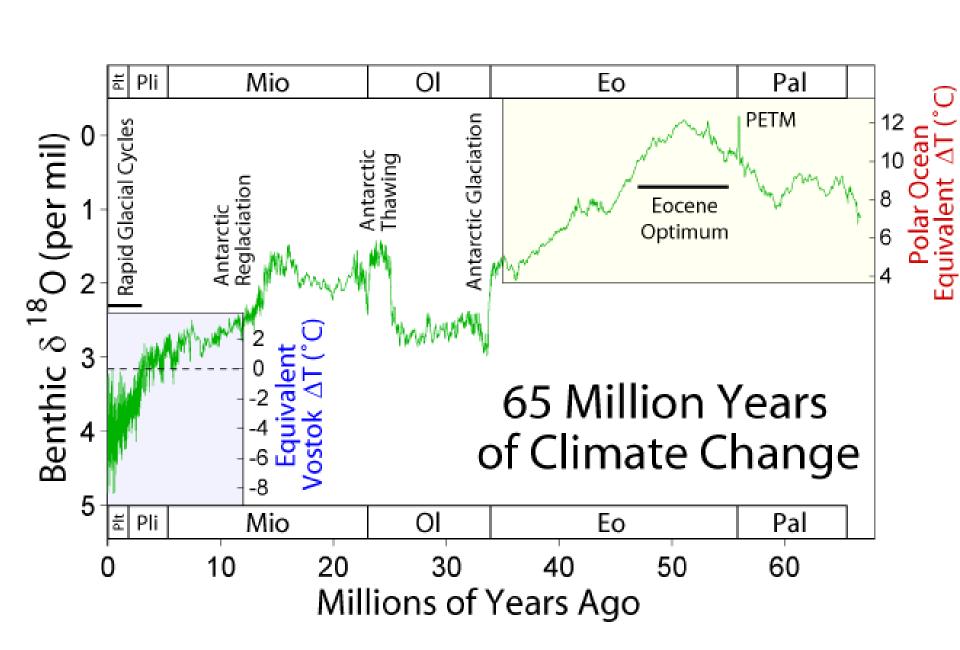
The Earth during the Paleocene



GEOLOGIC TIME SCALE (Based on data from Gradstein and Ogg, 1996 (Phanerozoic); and Harland et al., 1990)

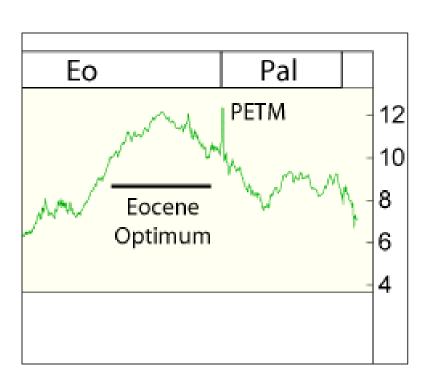


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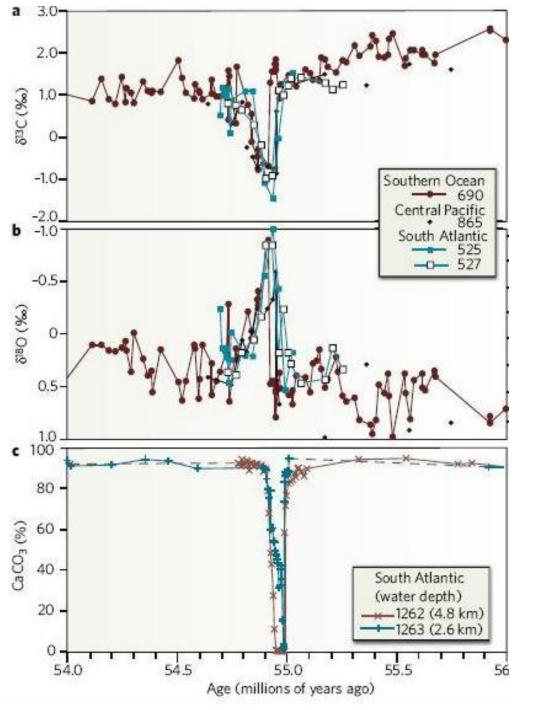


PETM

Paleocene-Eocene Thermal Maximum



- Warming at all latitudes (by ~6° C)
- Warming in both surface and deep parts of the oceans, and on land
- Warm conditions lasted 100,000 to 150,000 years



Ocean-core records show: a decrease in ¹³C (representing the contribution of methane hydrate C to marine animal shells),

an increase in ¹⁸O (representing higher global temperatures),

and a drop in CaCO₃ levels (representing the increased solubility of carbonates because of warmer ocean water)

