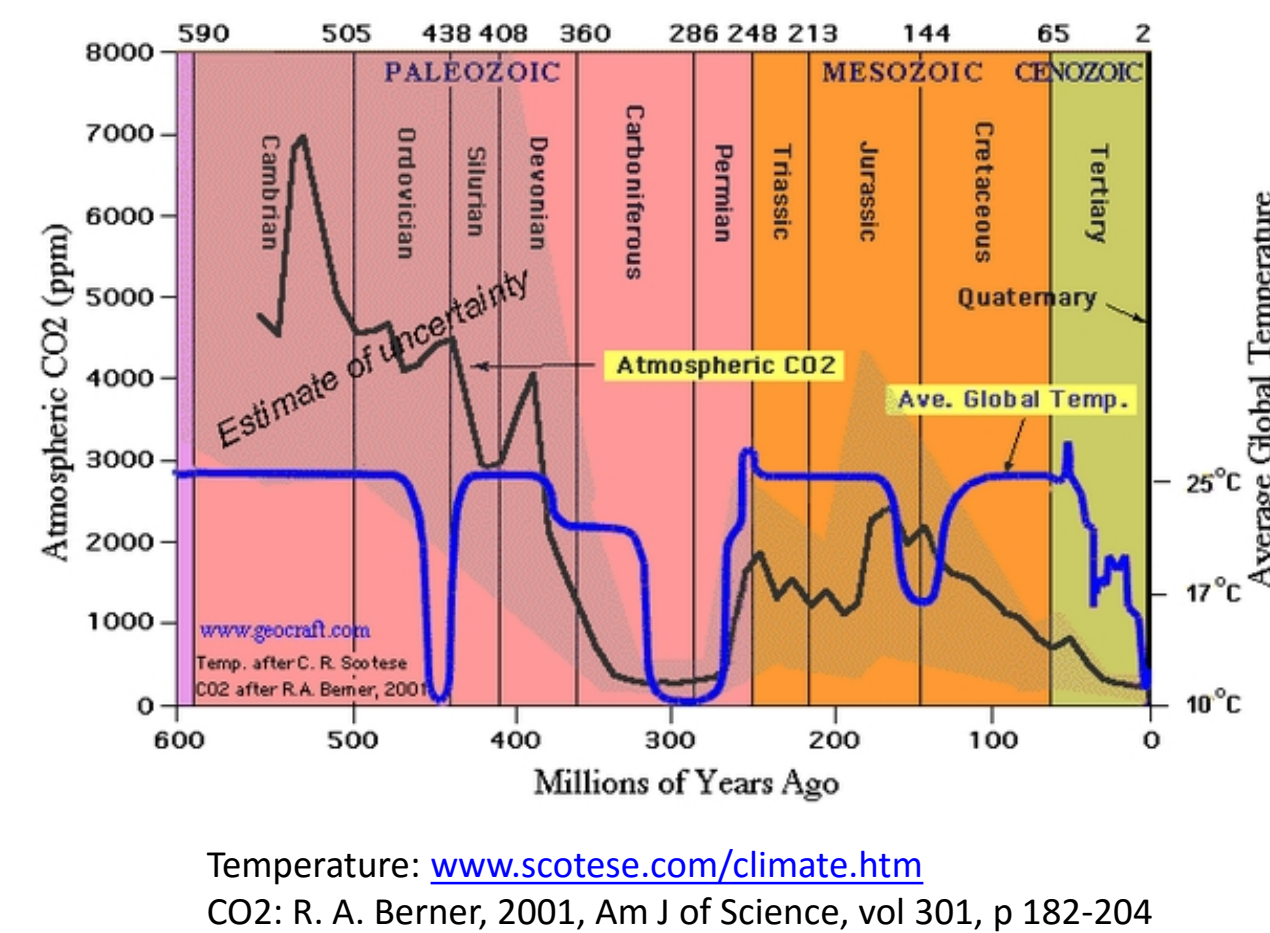
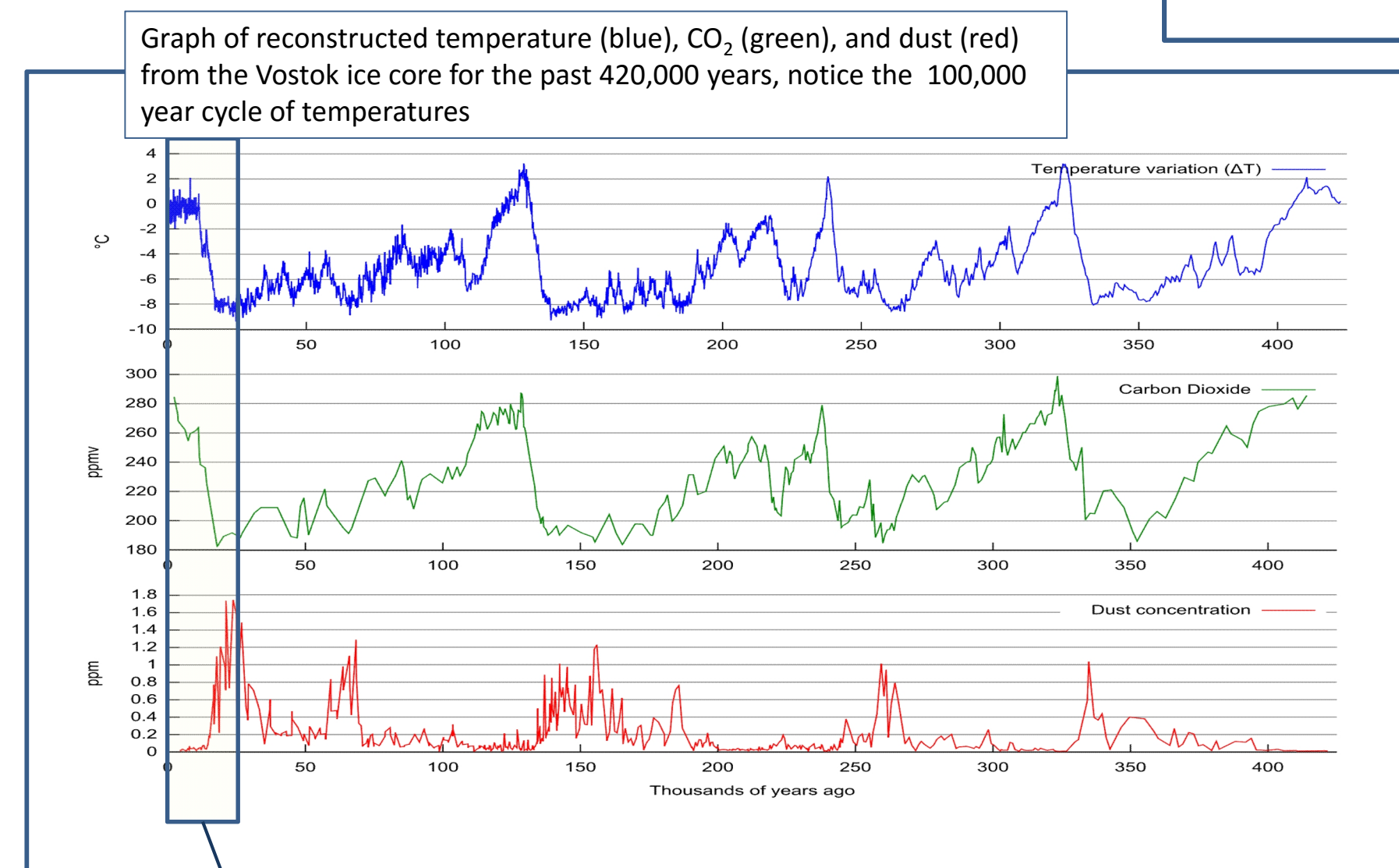
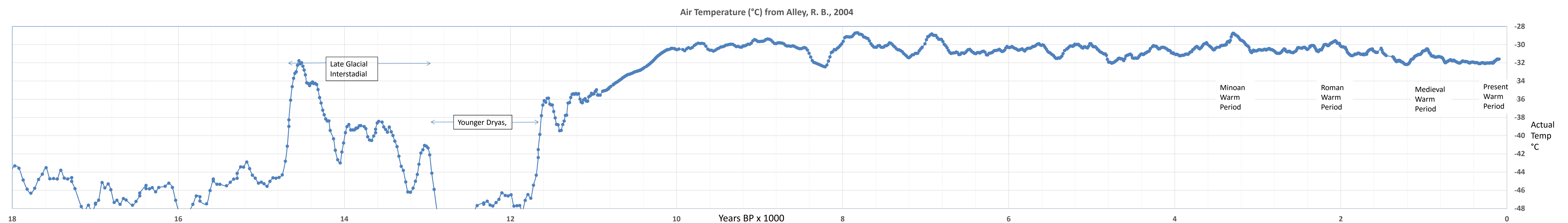
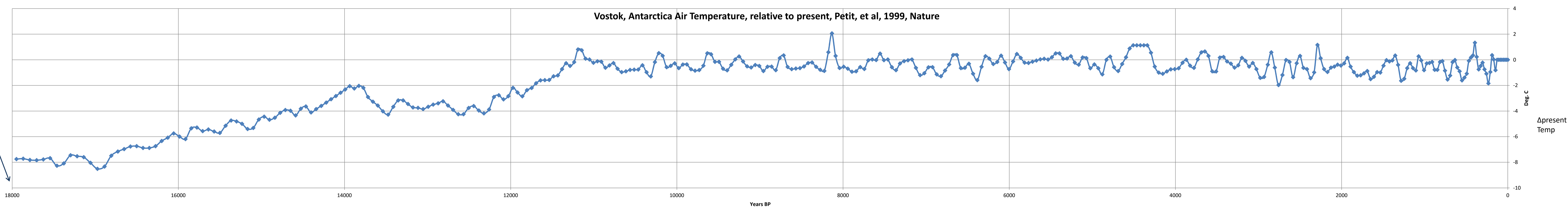


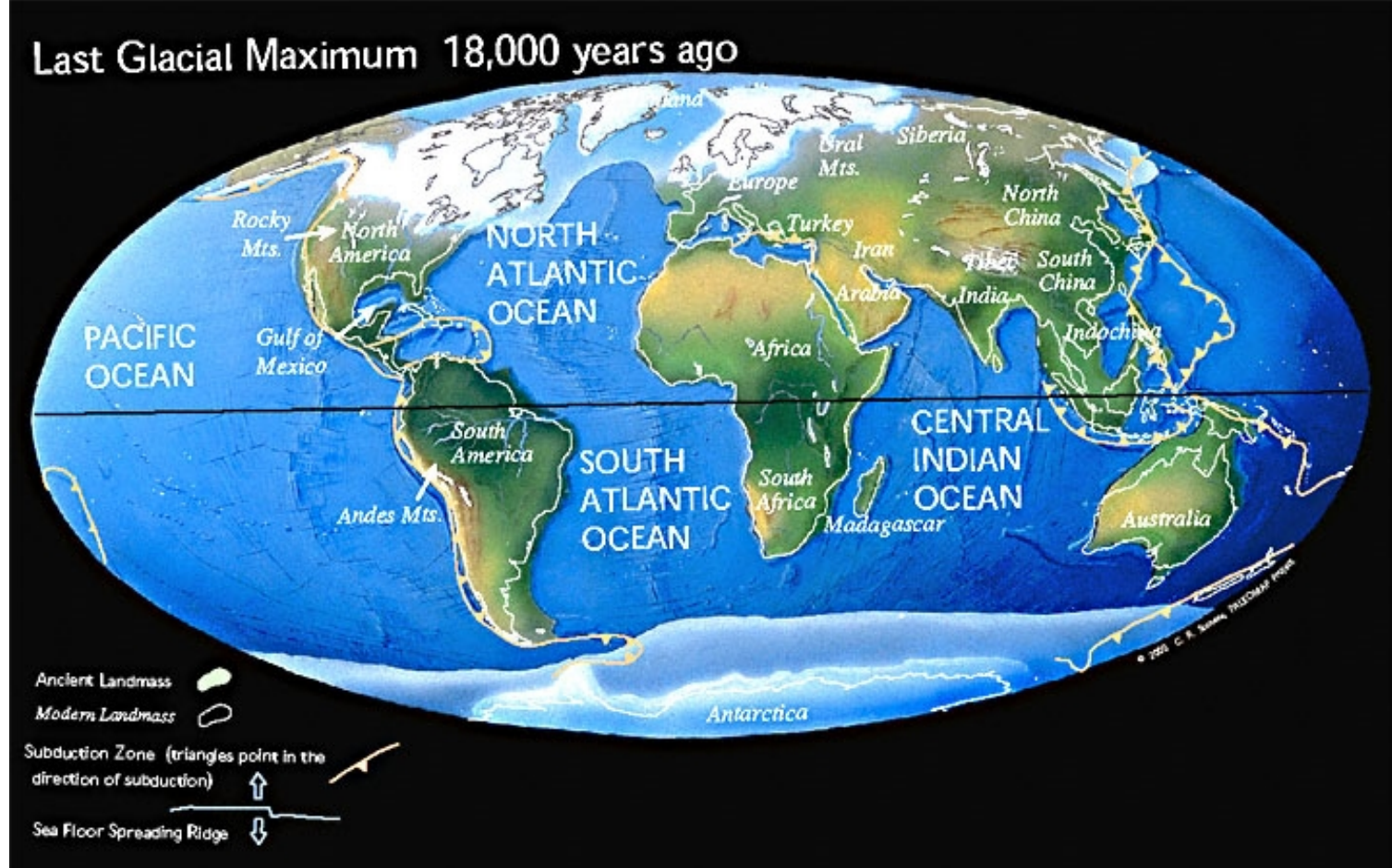
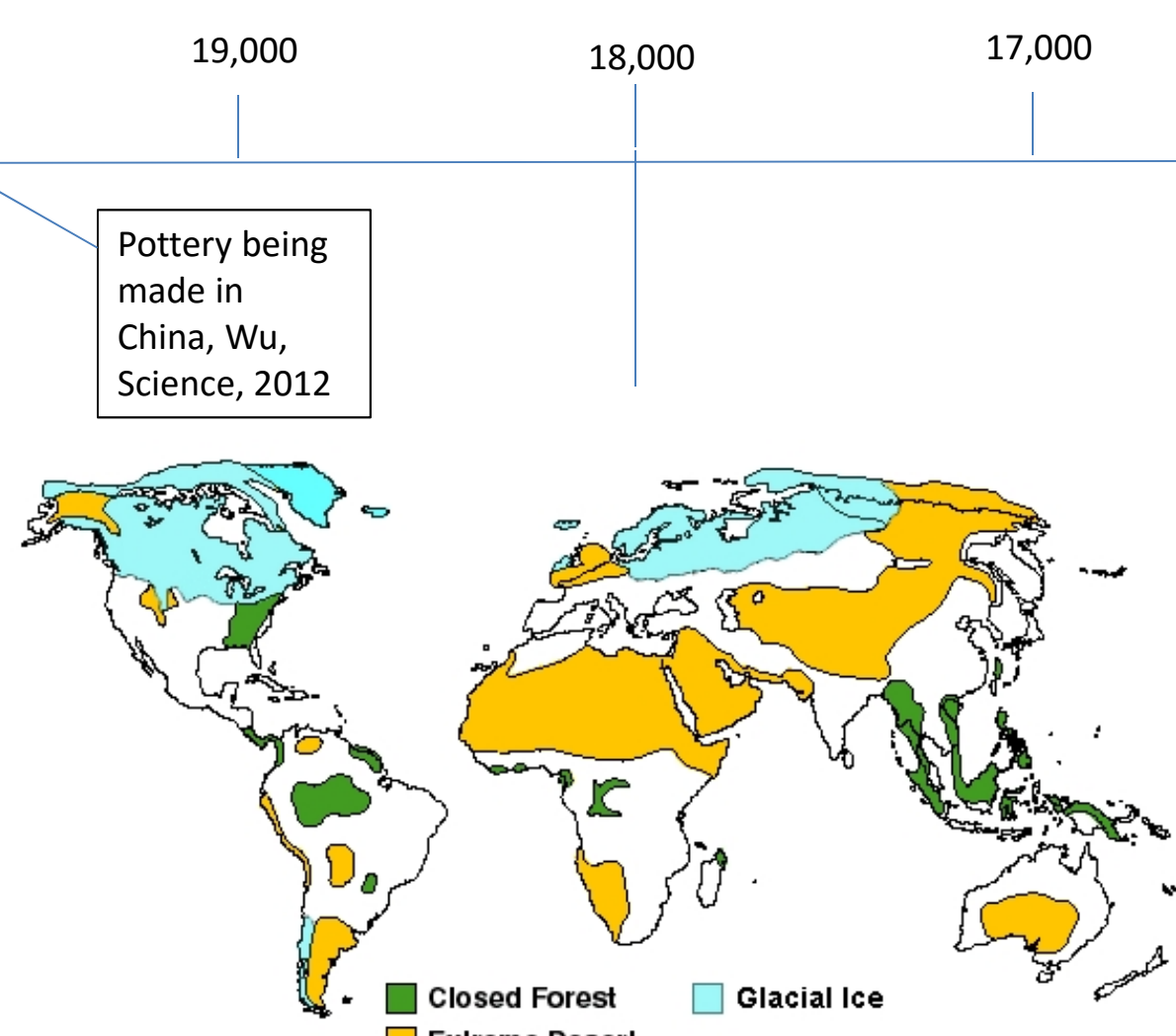
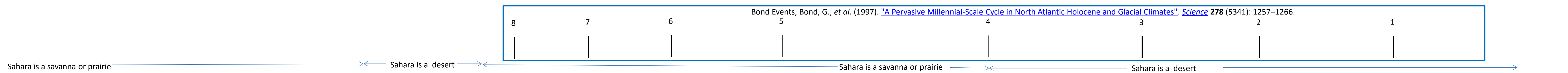
Climate and Human Civilization over the last 18,000 years



Holocene Thermal Optimum



"Last Glacial Maximum" or LGM: Peaked from 26,500 yrs BP to 19,000 yrs BP. It was about 100,000 yrs. long. Characterized by a much lower sea level (120 m below current levels), cold temperatures (3.5°C to 5.8°C cooler than today) and a very dry and dusty climate.



14,500 yrs BP, the world begins to warm after the glaciation.

Rice cultivation in China??

Homo floresiensis goes extinct, Morwood, Soejono, 2004

Beginning of the Neolithic B culture. Houses are rectangular, with plaster floors. More domesticated animals.

In China (Jiahu culture) the earliest farming (millet and rice) settlements in China, Jiahu culture, also earliest Chinese writing and the earliest wine.

Black Sea fills and connects to Mediterranean according to Ryan et al, 2003

7400 BP, Tartaria tablets, simple writing

Uruk period begins, the beginning of large scale cities

Late Uruk period, cuneiform script begins.

Akkadian empire collapses

Earliest known phonetic alphabet

Roman Warm Period, this marks the beginning of modern civilization and written world history

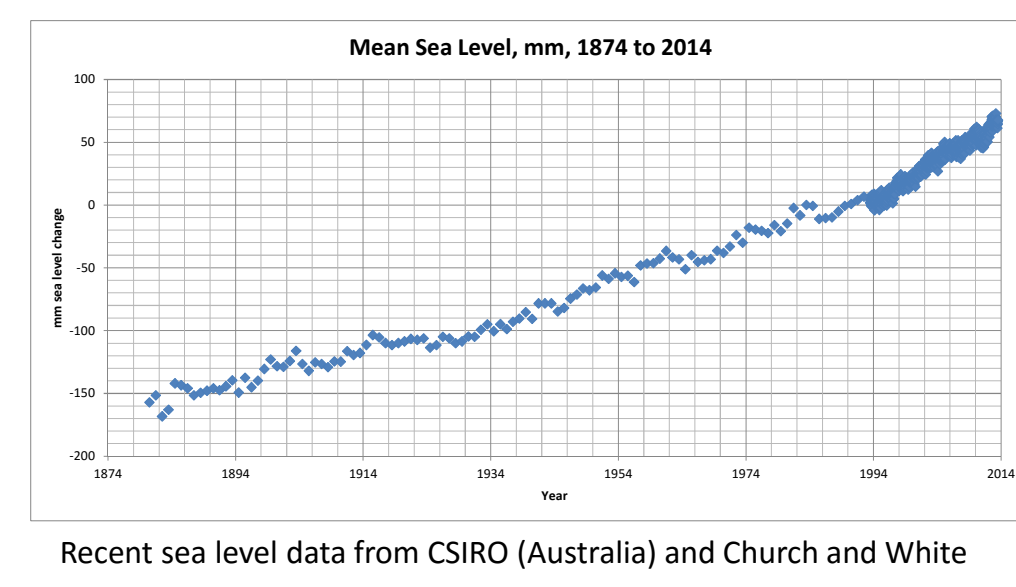
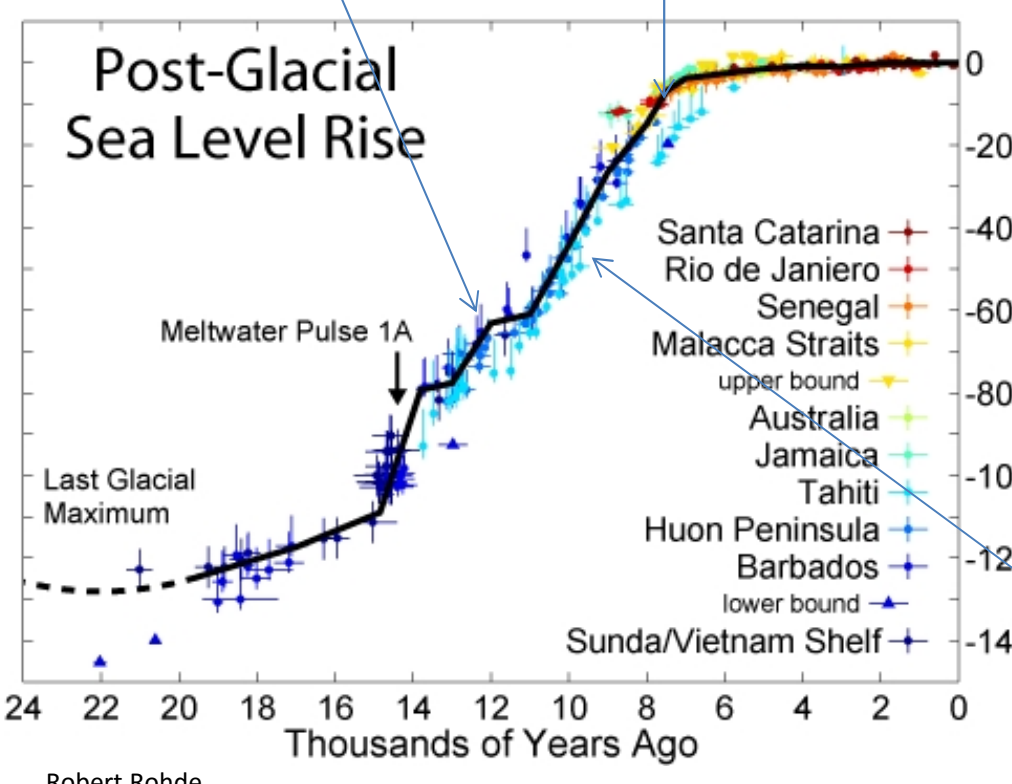
Maya Golden Age, it collapses suddenly in 1100 BP

Year without a summer (1816)

Present Warm Period

Gobekli Tepe, oldest city/monument known

Black Sea fills



Gobekli Tepe, abandoned and deliberately buried



Immediate right: This is the monthly global temperature anomaly data from Dr. Roy Spencer and Dr. John Christy, Global Hydrology and Climate Center, U of Alabama. We only have true global atmospheric data since 1979. Prior to that, surface readings are used to estimate global temperatures. These estimates (as anomalies) are shown, since 1850, in the far right graph. There is far less warming in the southern hemisphere.

