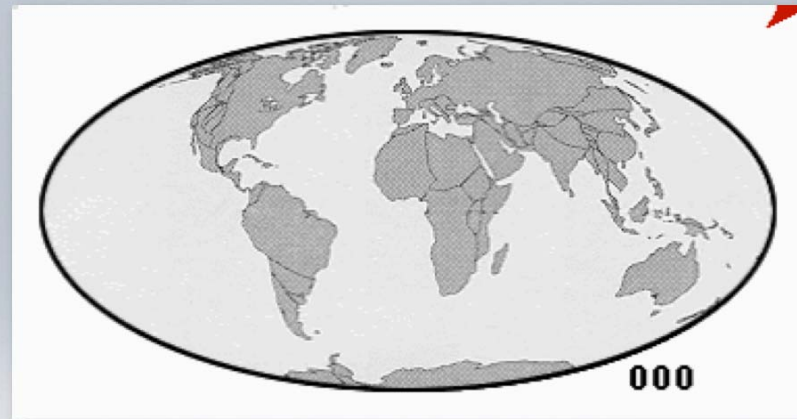


Plattentektonik & Klima



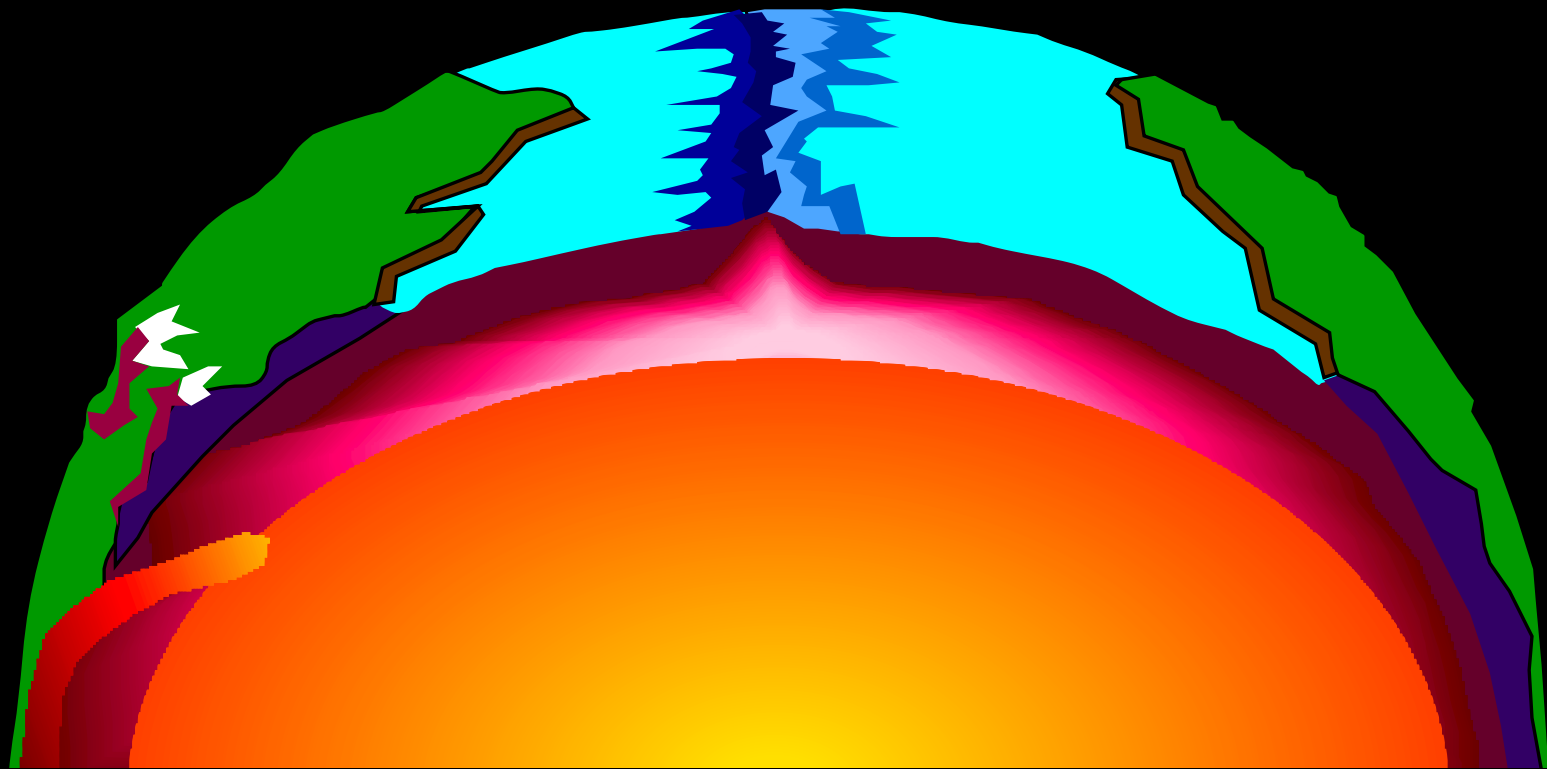
Hannes Grobe

Alfred-Wegener-Institut für Polar- und Meeresforschung



Alfred-Wegener-Institut
für Polar- und Meeresforschung



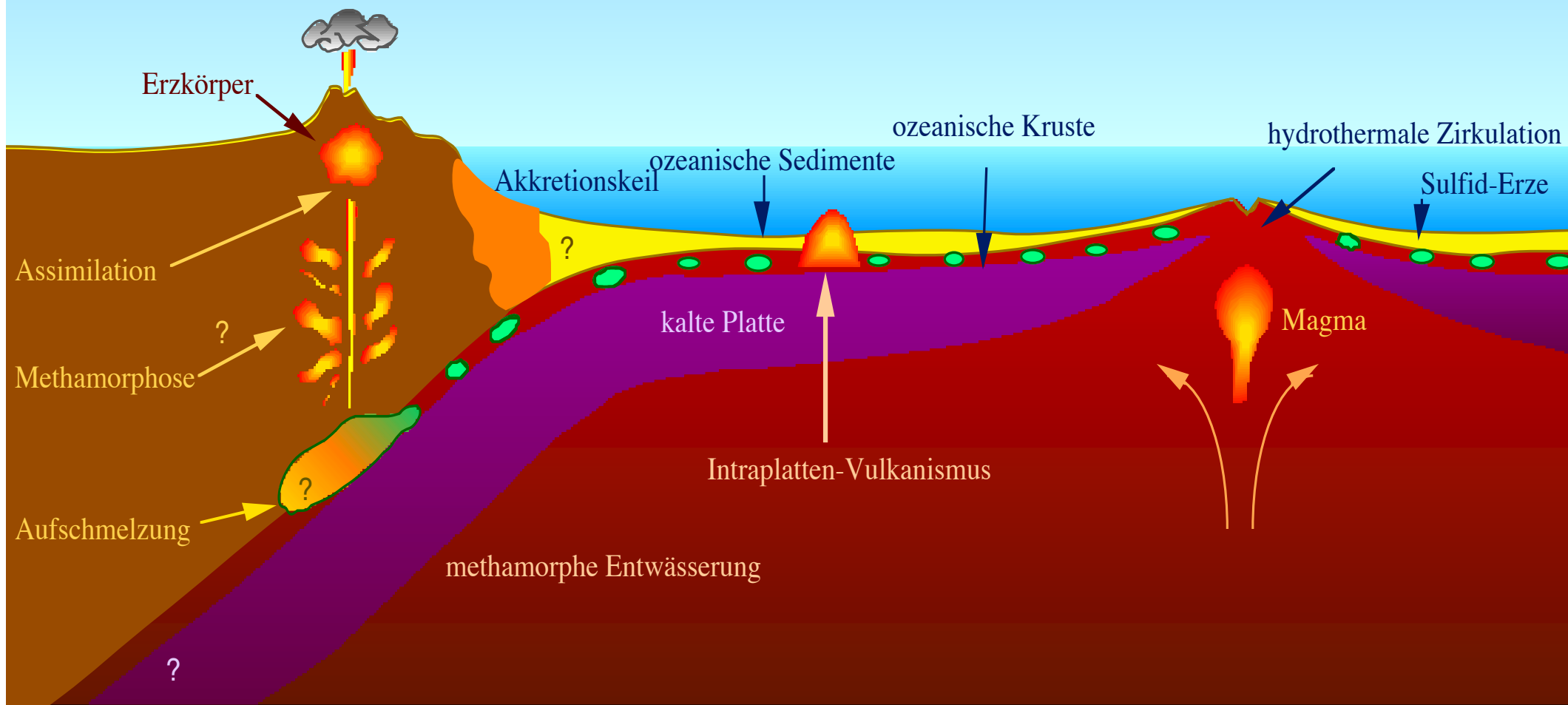


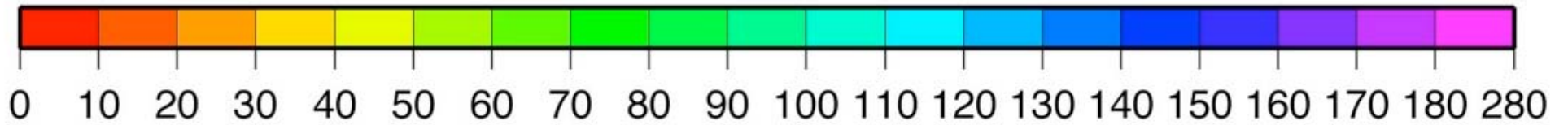
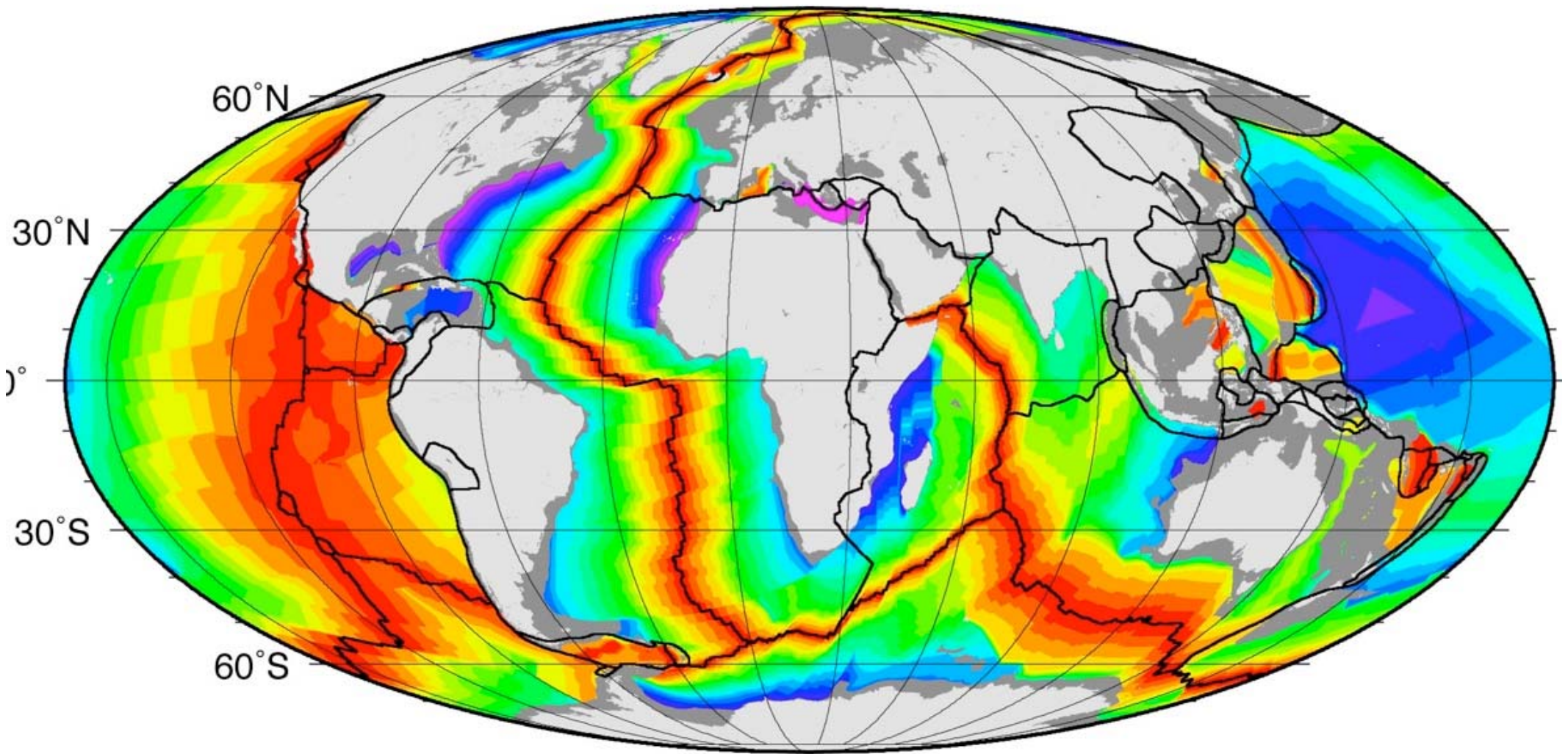
Plattentektonik



Subduktionszone

Mittelozeanischer Rücken

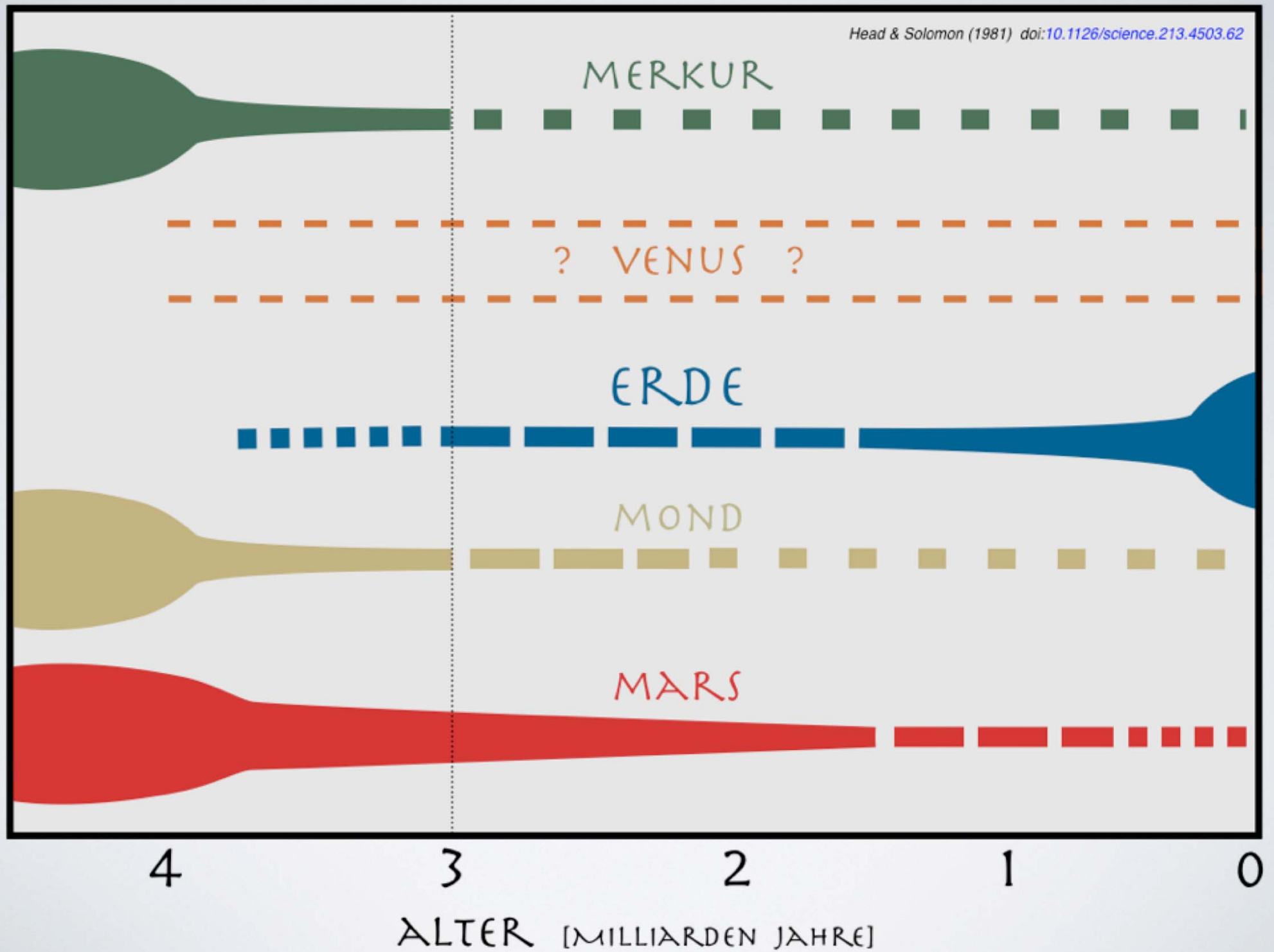


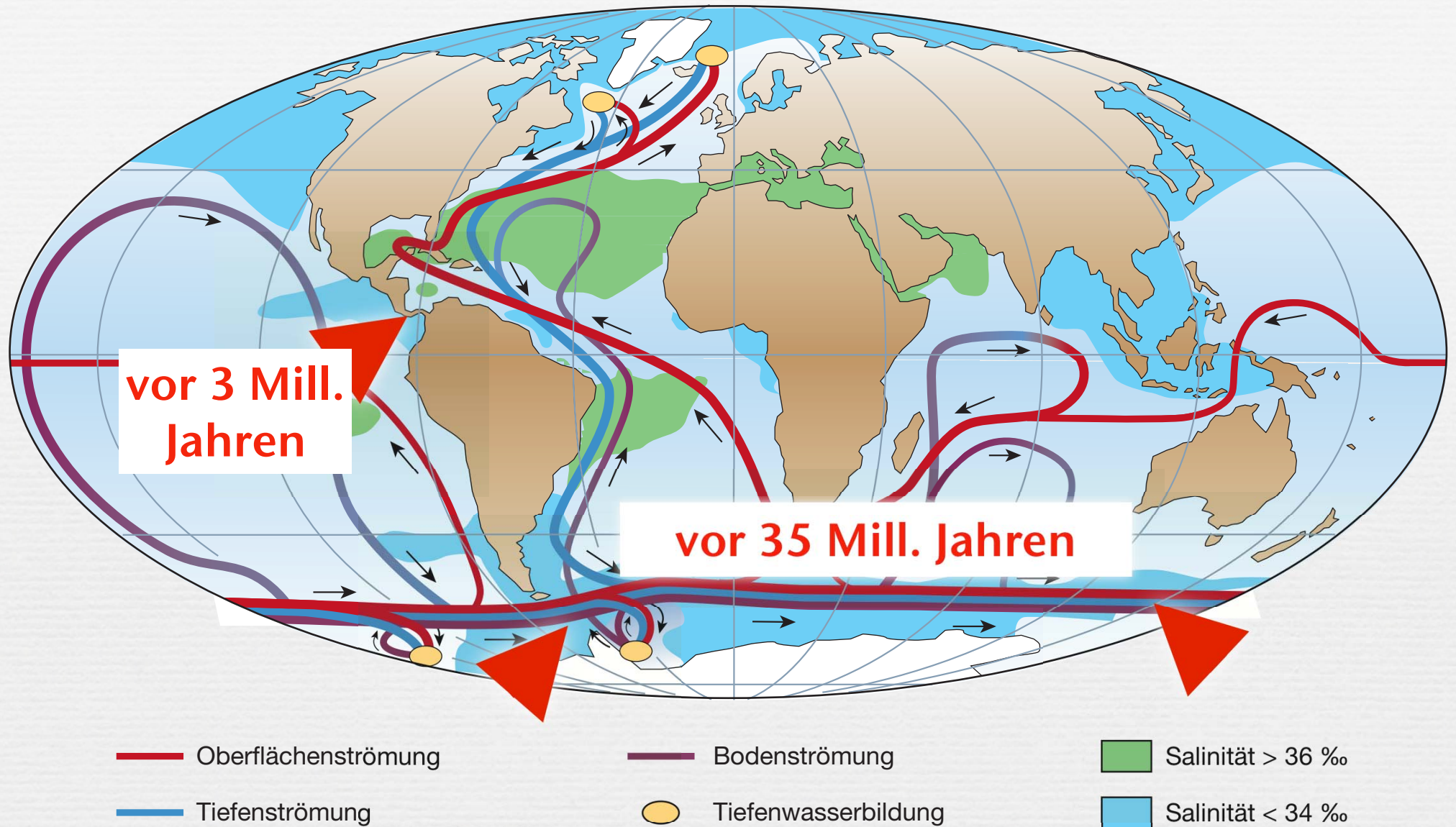


Age of Oceanic Lithosphere [m.y.]

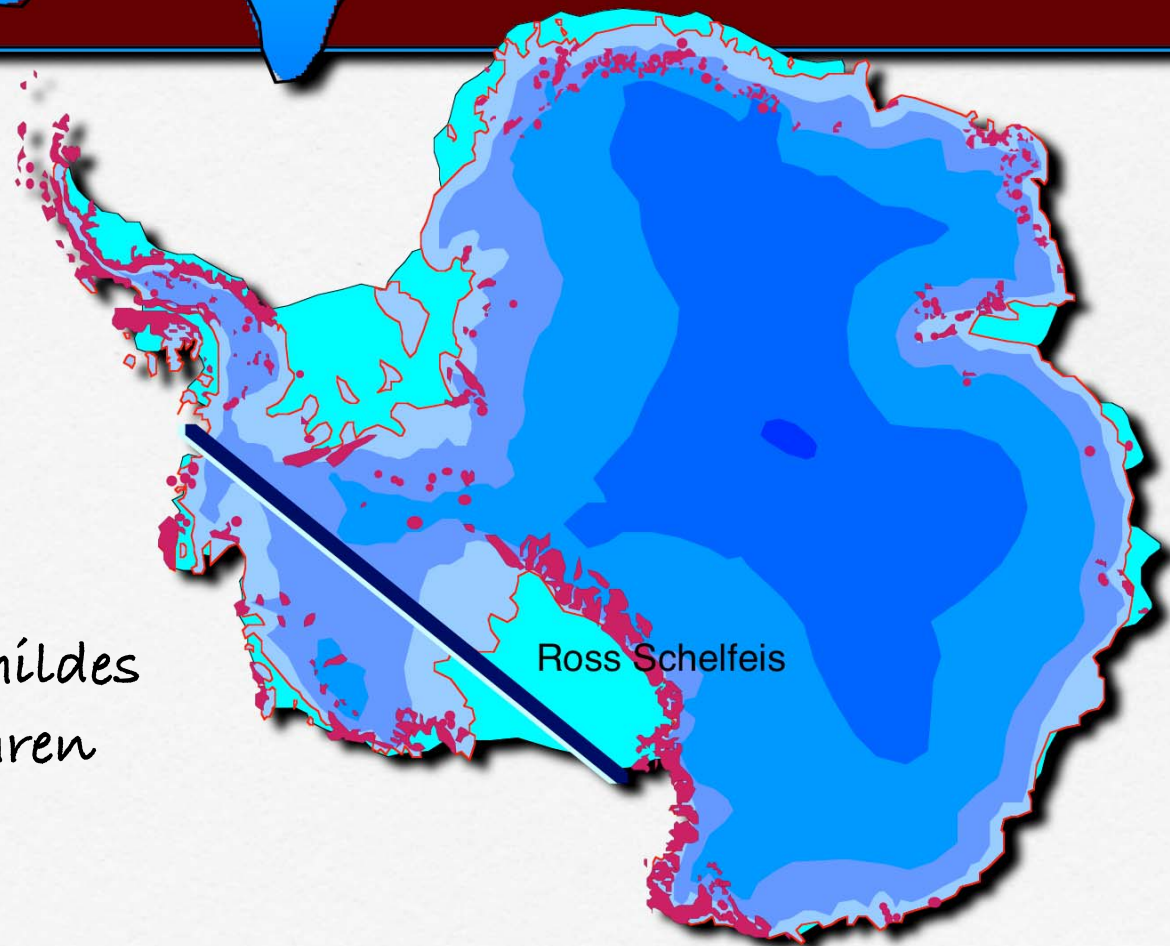
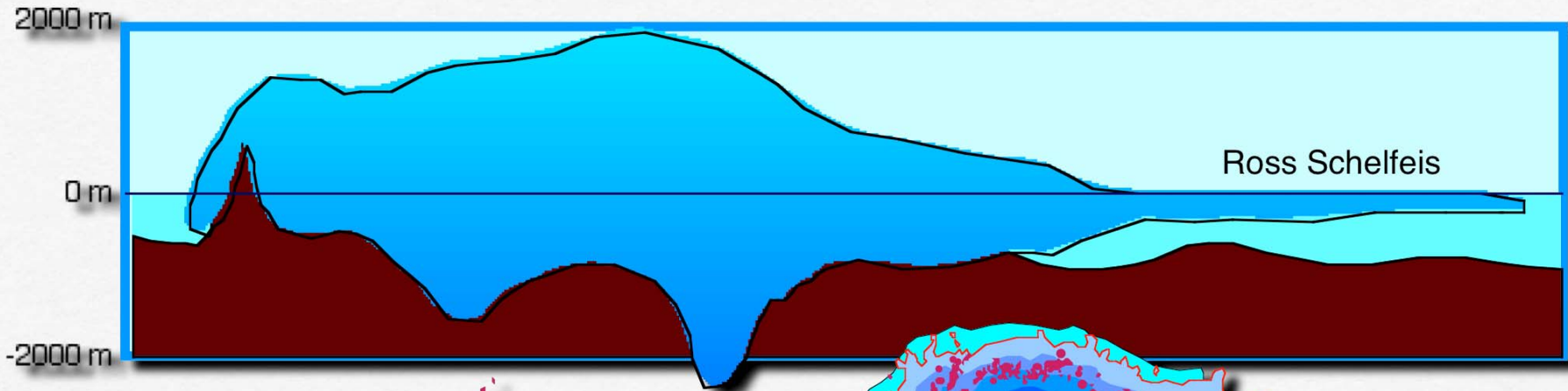
Muller, R.D., M. Sdrolias, C. Gaina, and W.R. Roest (2008)

Age, spreading rates and spreading symmetry of the world's ocean crust, *Geochem. Geophys. Geosyst.*, 9, Q04006, doi:10.1029/2007GC001743.

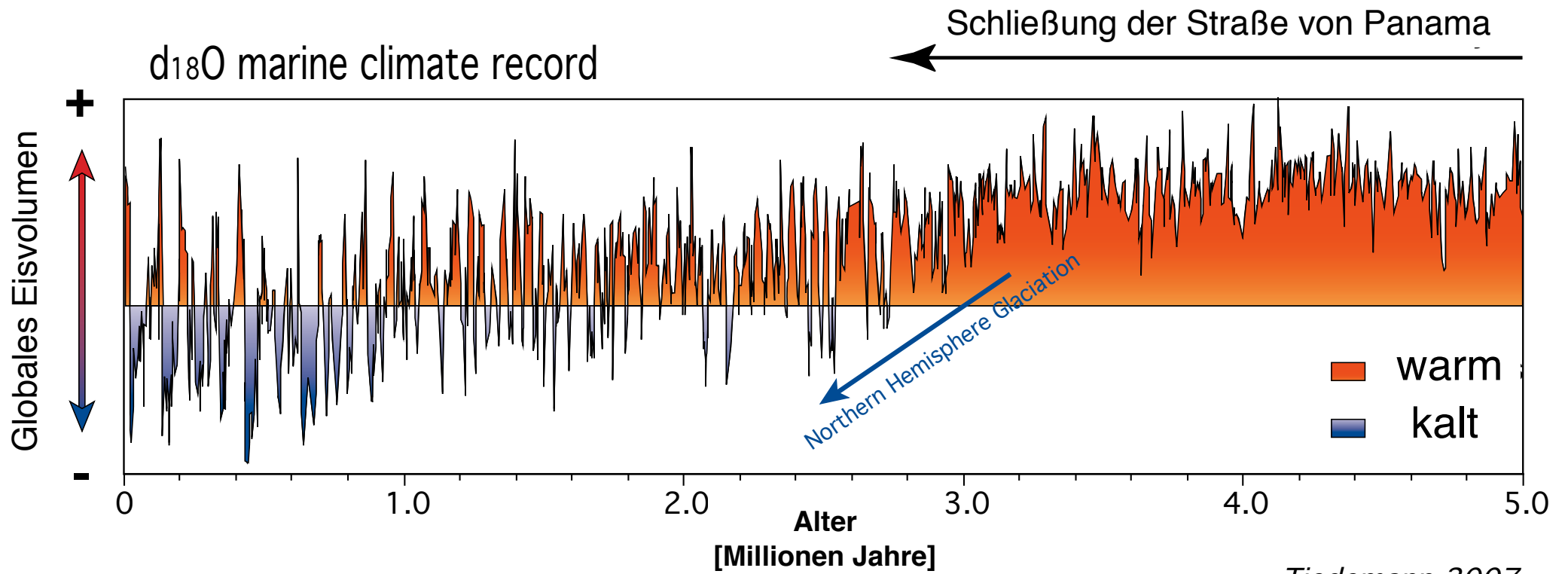




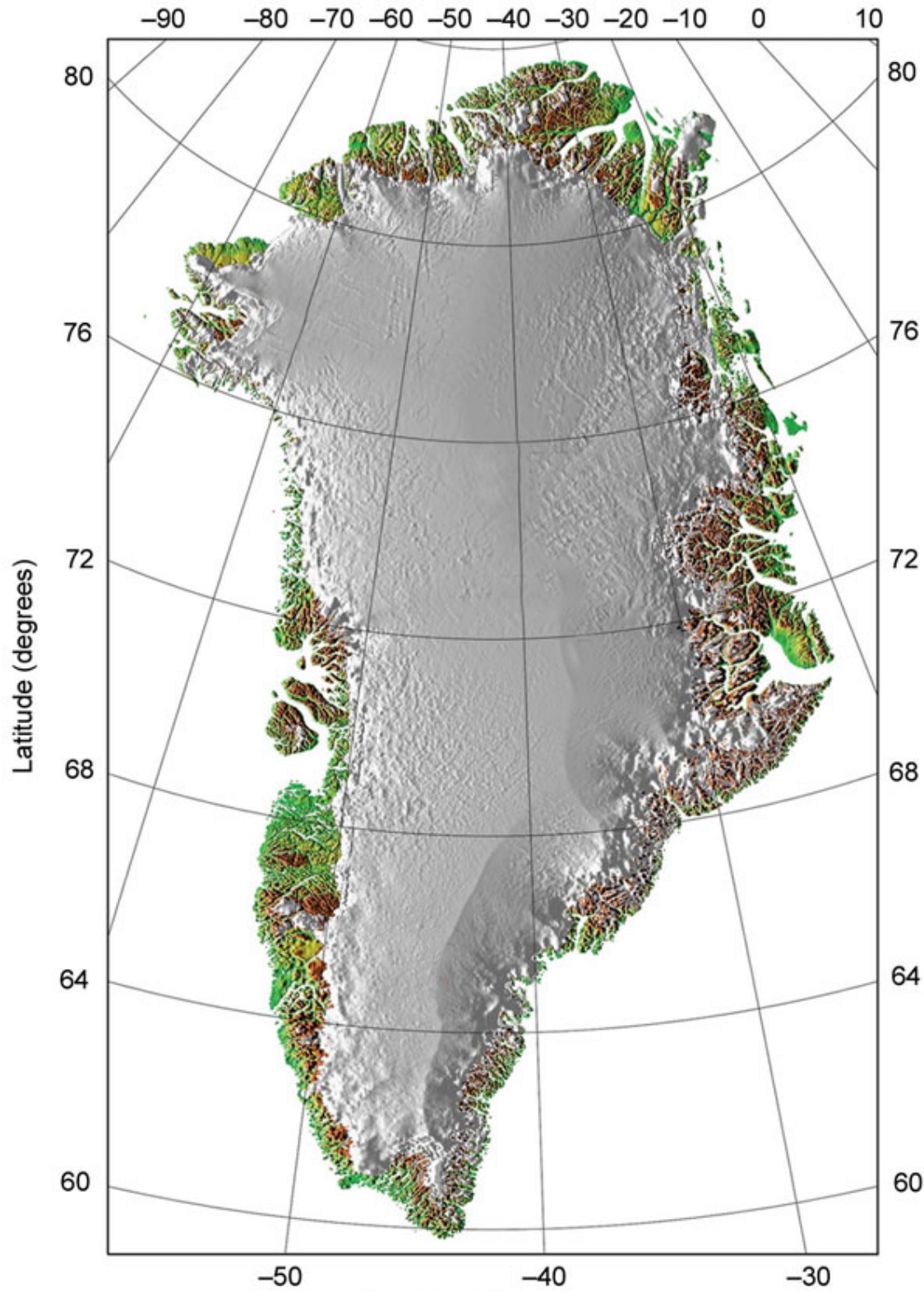
Das System der globalen Meeresströmungen
 (nach Rahmstorf, 2002)



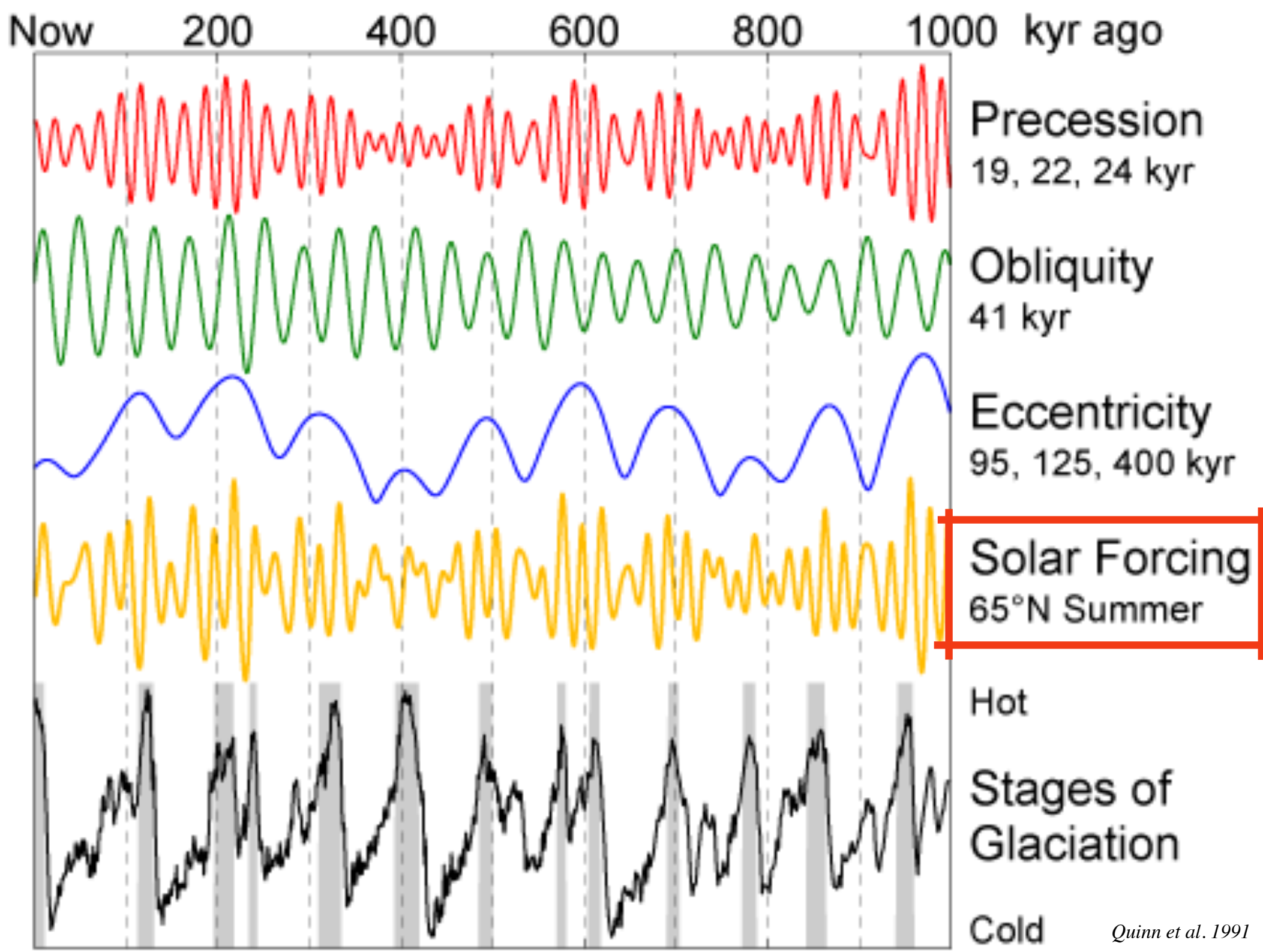
Aufbau des
Antarktischen Eisschildes
in 35 Millionen Jahren

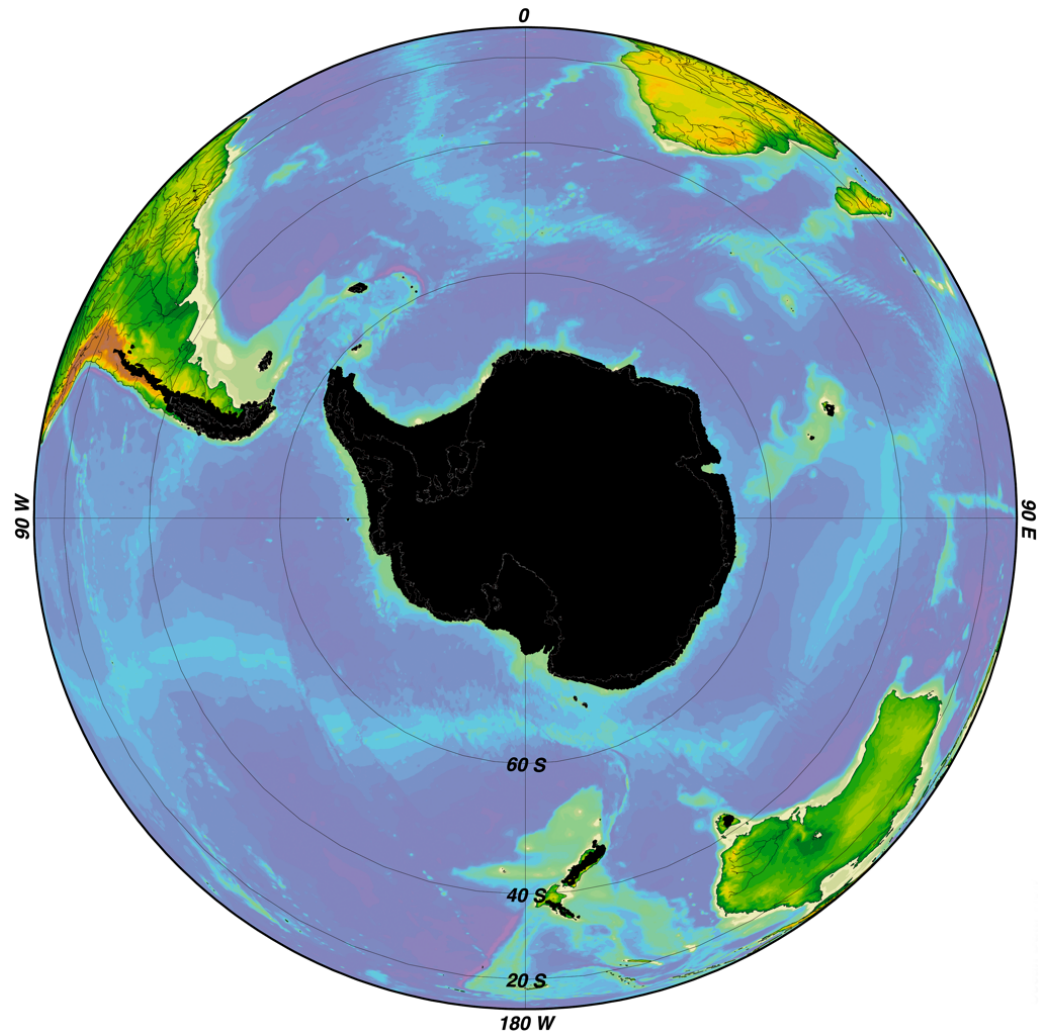
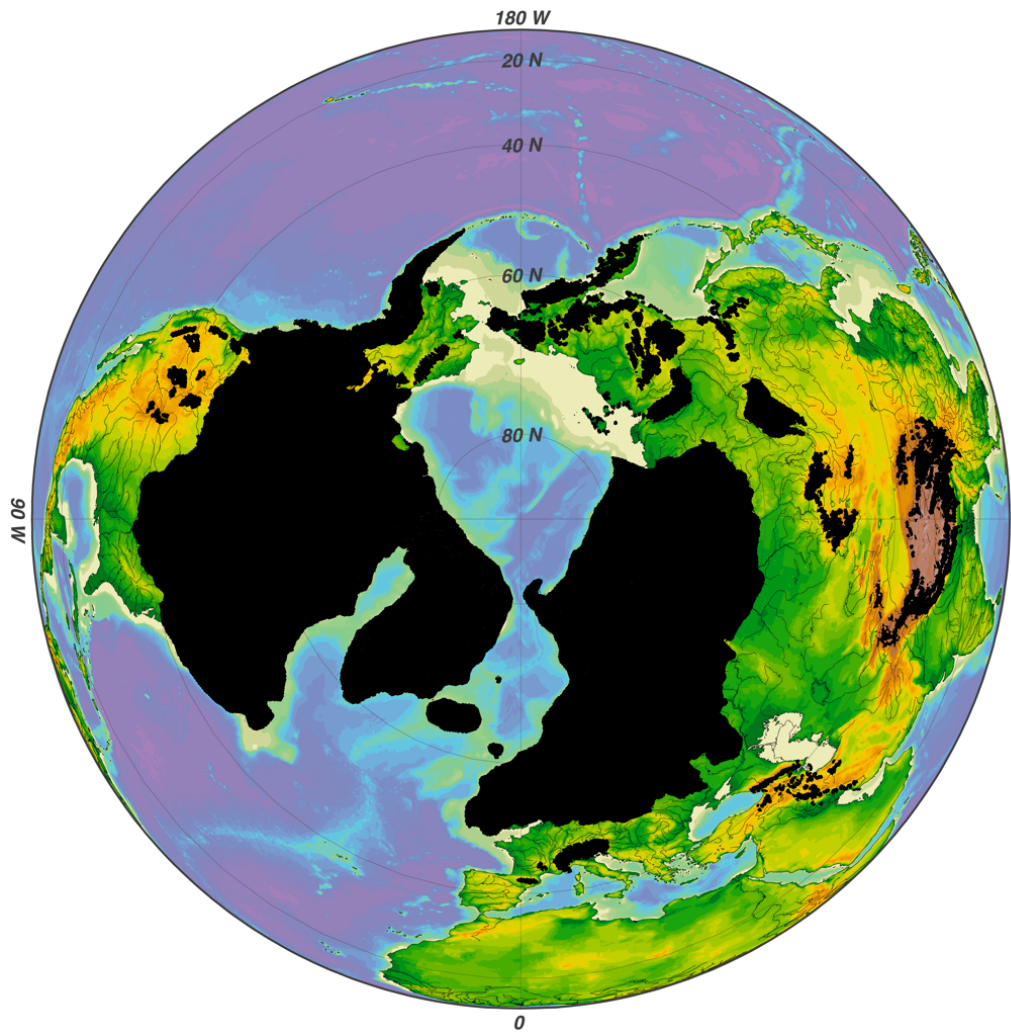


Tiedemann 2007



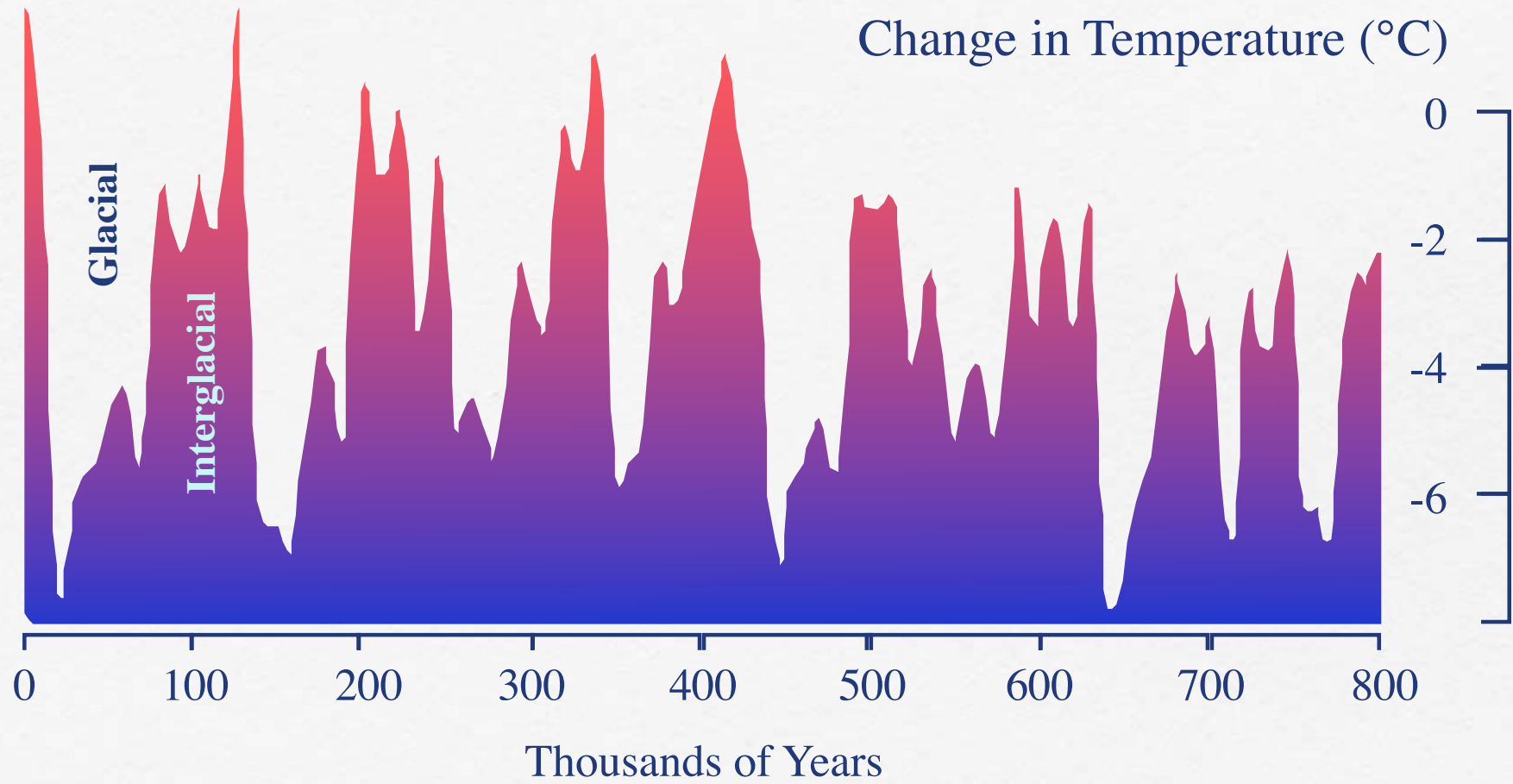
Aufbau des
Grönländischen
Eisschildes
in 3 Millionen Jahren



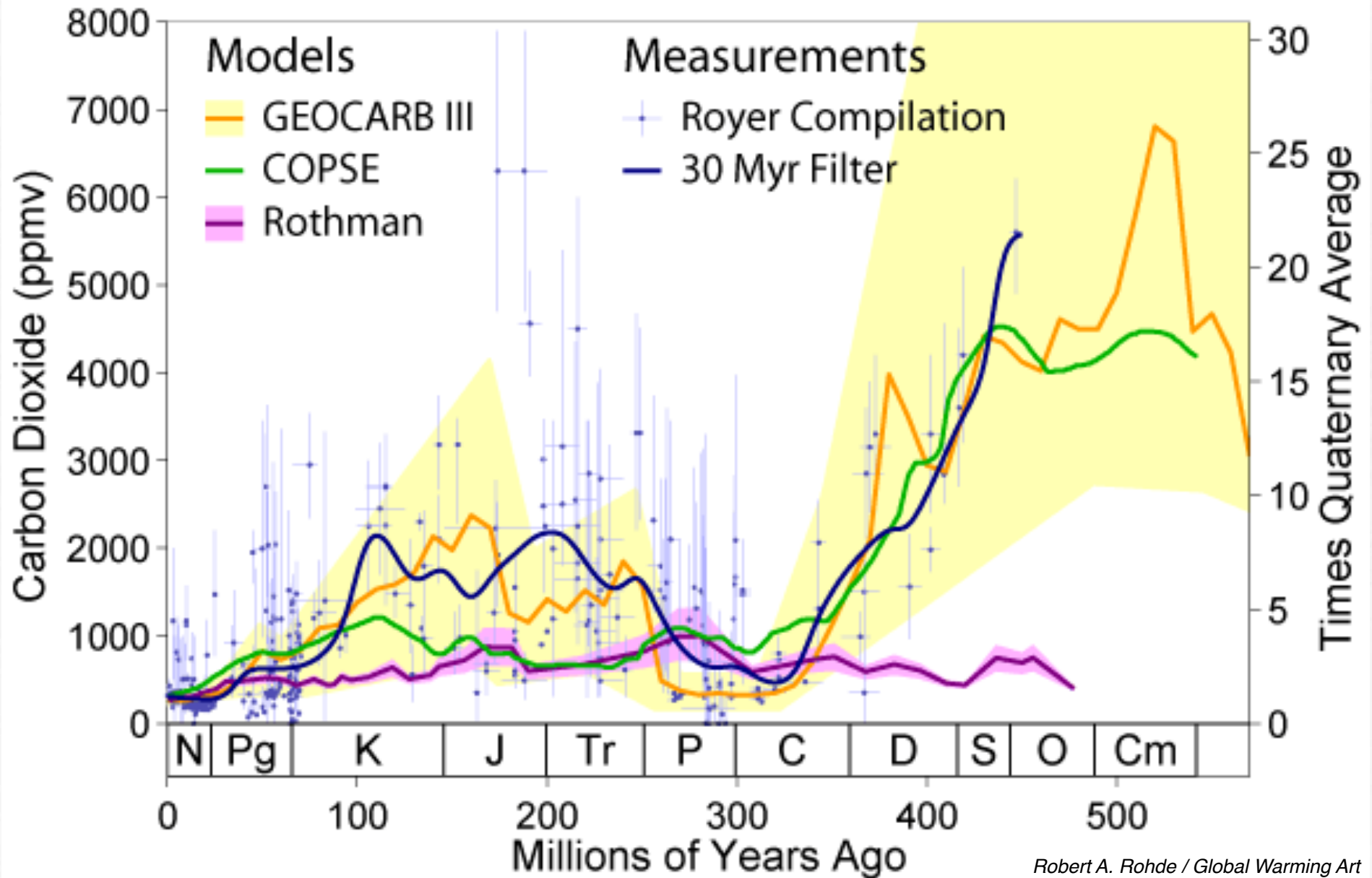


Quaternary

Change in Temperature (°C)



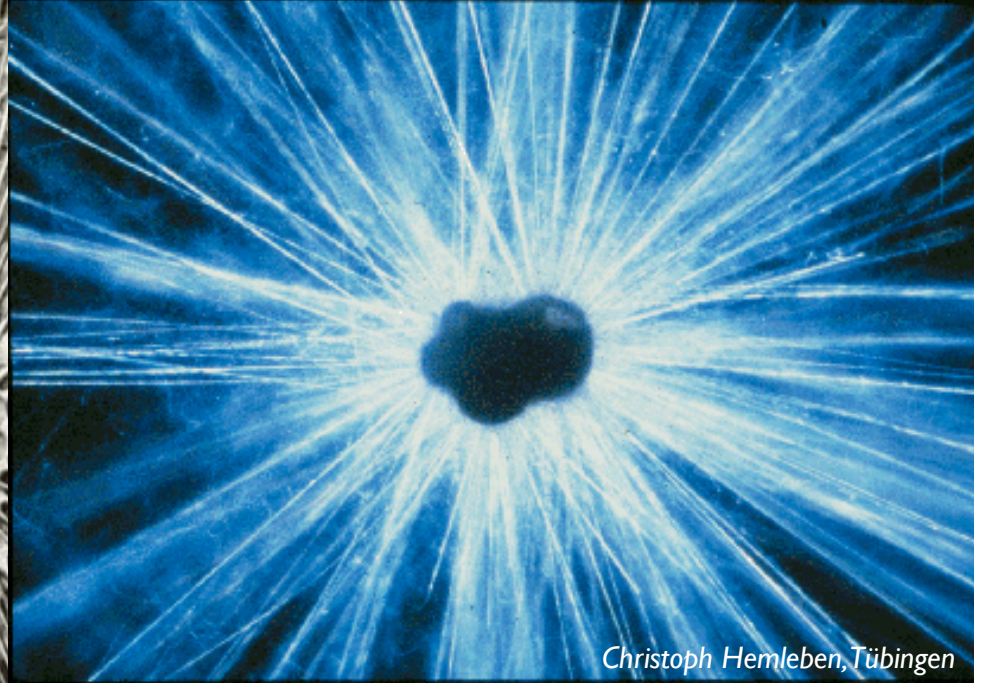
Phanerozoic Carbon Dioxide





Kohle

ORGANISCHE SUBSTANZ



Christoph Hemleben, Tübingen

KALK

Ernst Haeckel 1899

Foraminiferen

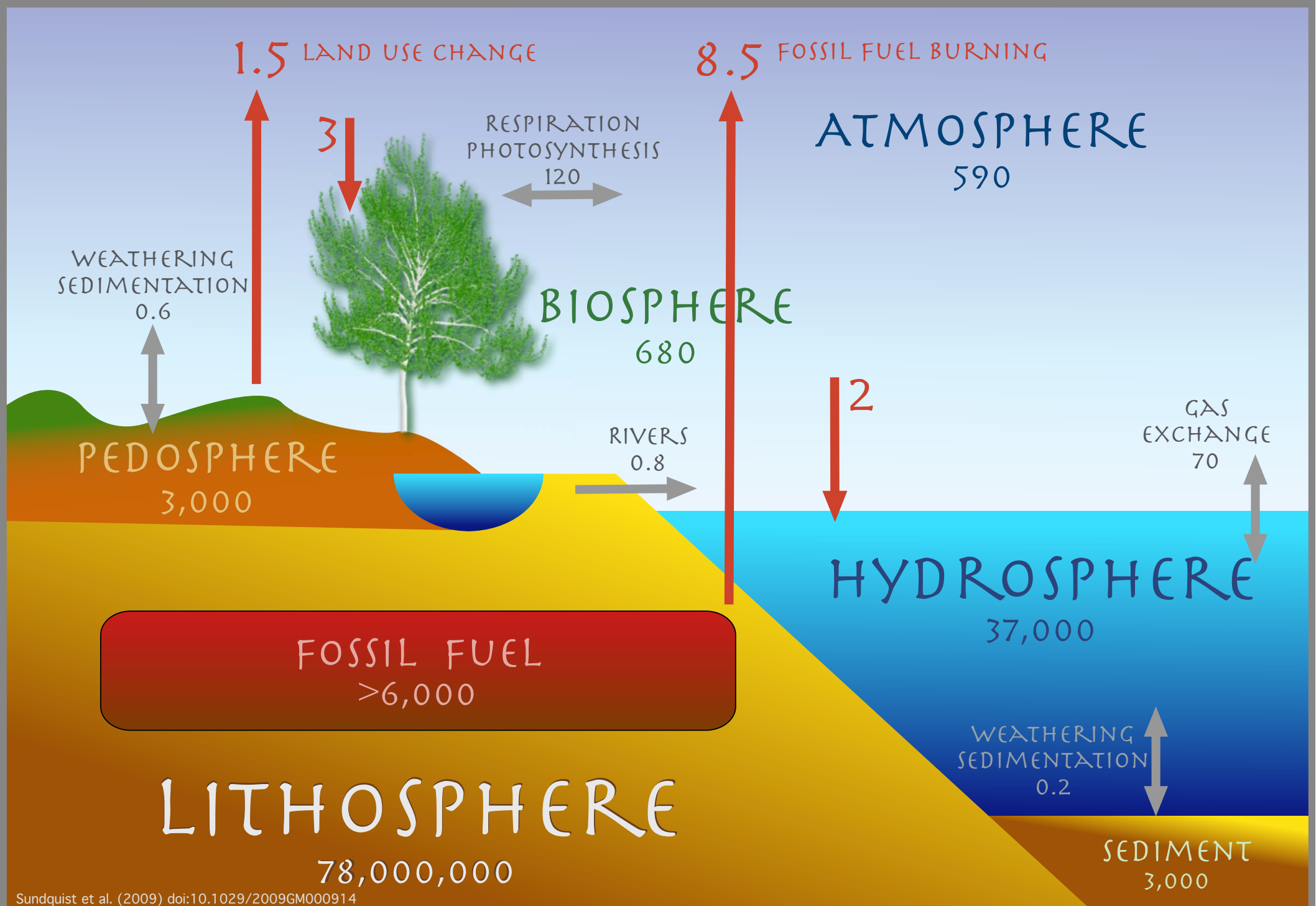


Oil rigs offshore Vietnam/Wikipedia

Erdöl + Erdgas

GLOBAL CARBON CYCLE IN GT C

FLUX IN GT C/A





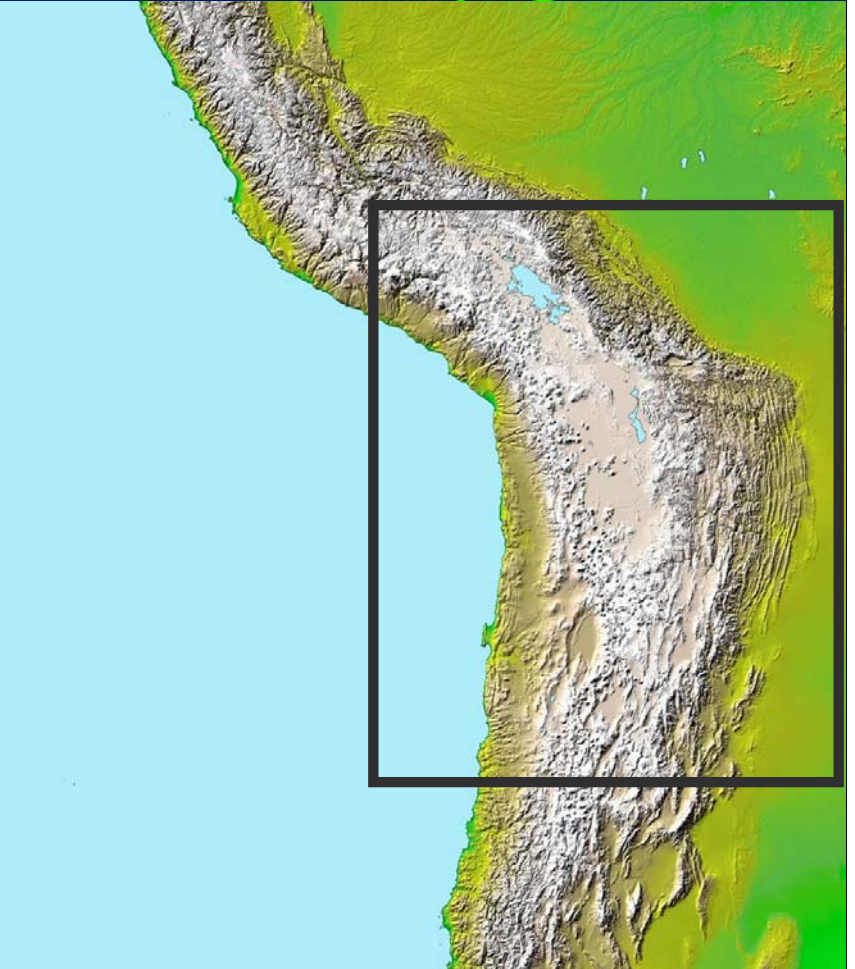
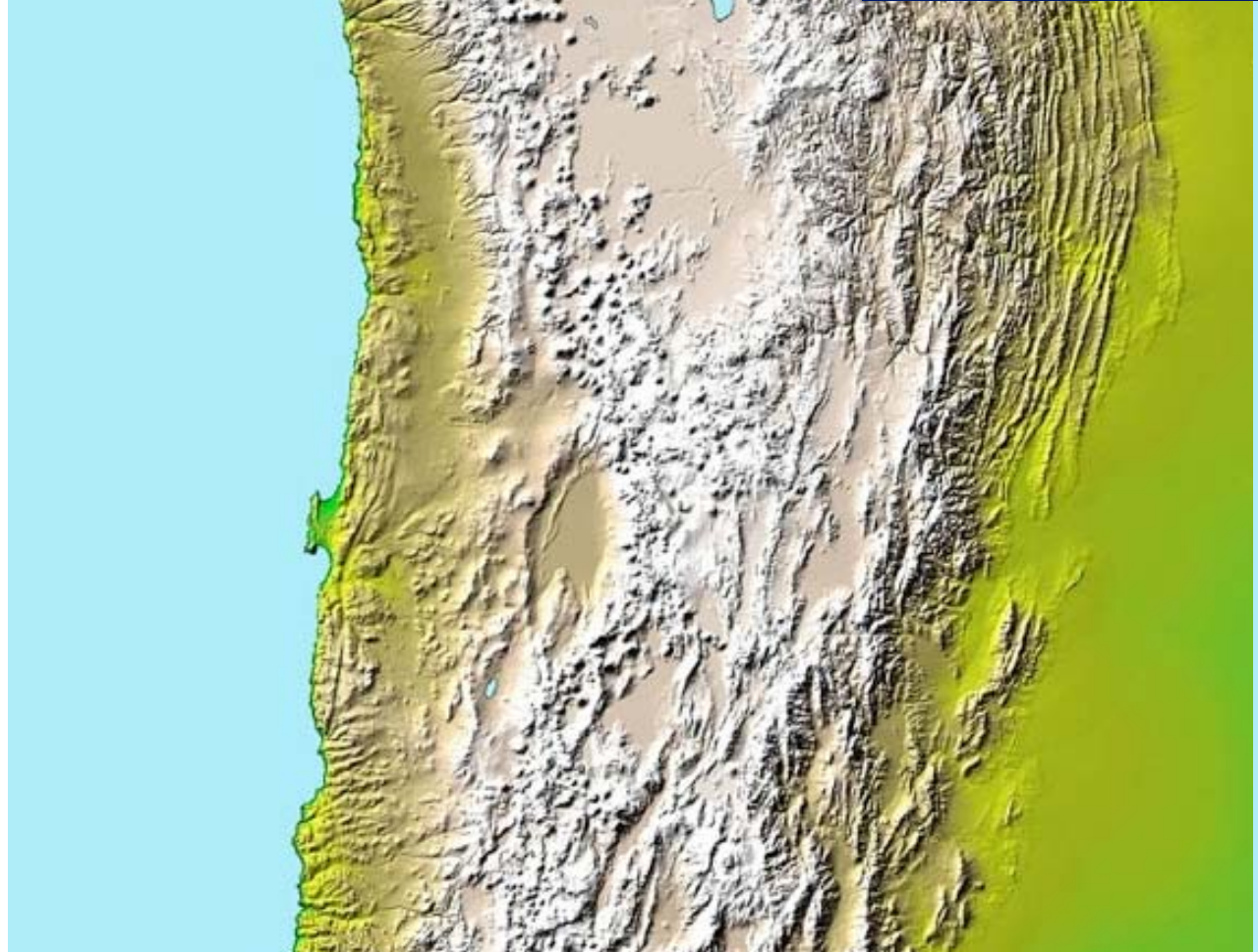
Albert Blaetter (1878-1935)

Wettersteingebirge

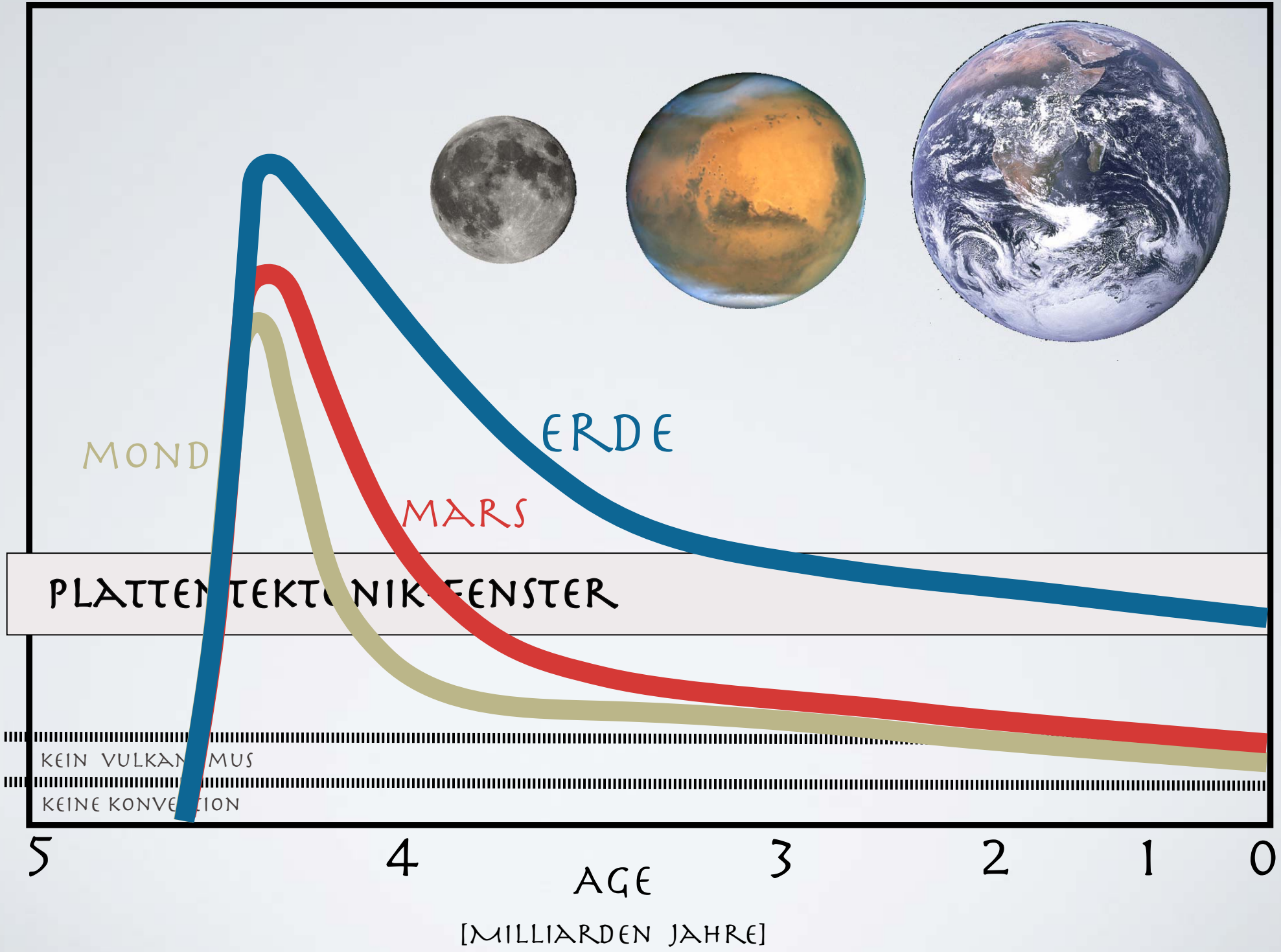
Kalkablagerungen des Thetis Ozeans während der Trias ca. 200-250 Mio. Jahre



Model einer Subduktionszone im *Klimahaus 8° Ost*, Bremerhaven



PLANETEN-TEMPERATUR



MOND

MARS

ERDE

PLATTEN TEKTONIK FENSTER

KEIN VULKANISMUS

KEINE KONVEKTION

5 4 3 2 1 0

AGE

[MILLIARDEN JAHRE]



Plattentektonik

