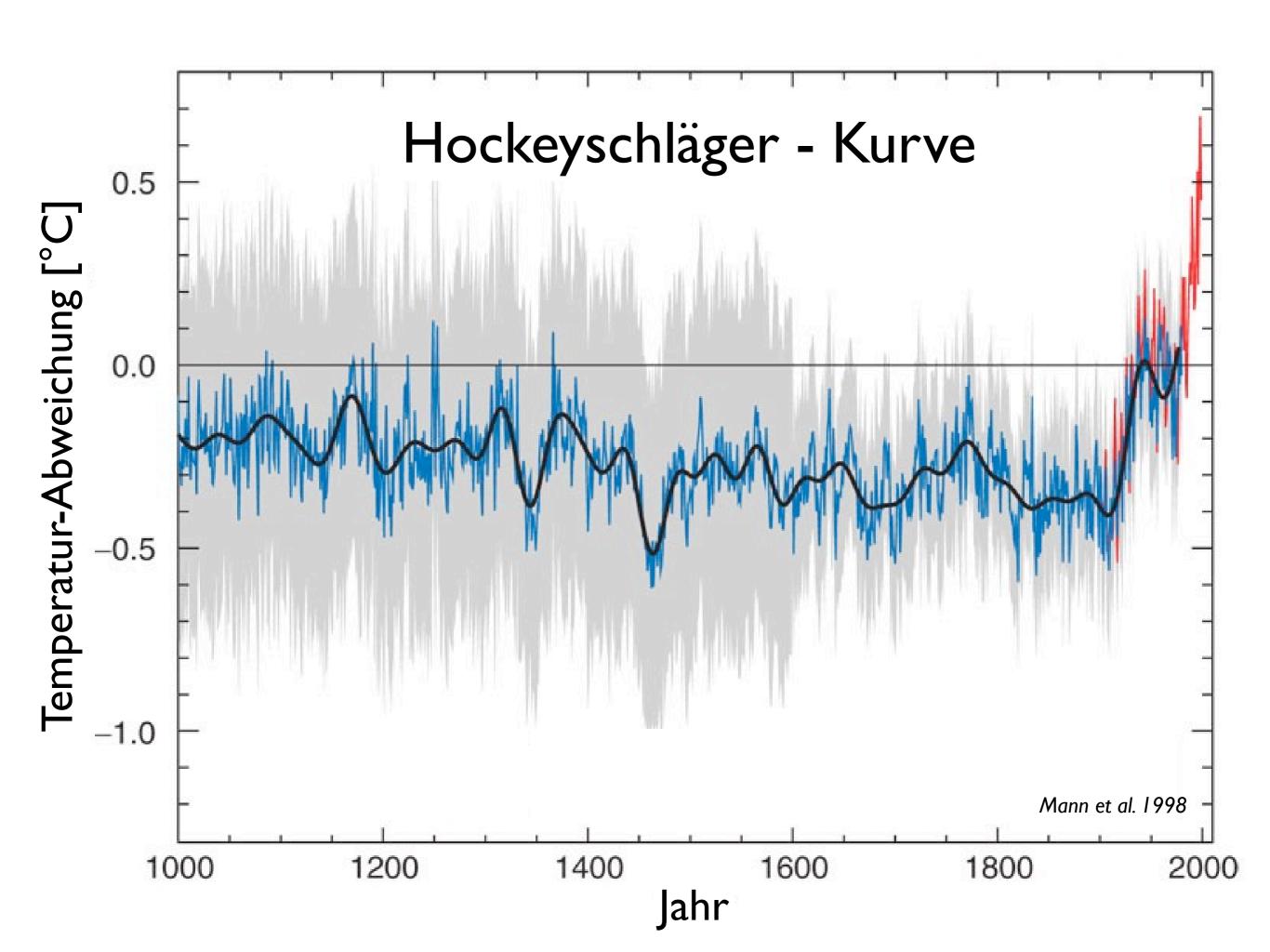
Die komplexe Erde

die Sphären des Erd- und Sonnensystems und ihr Spiel mit dem Klima



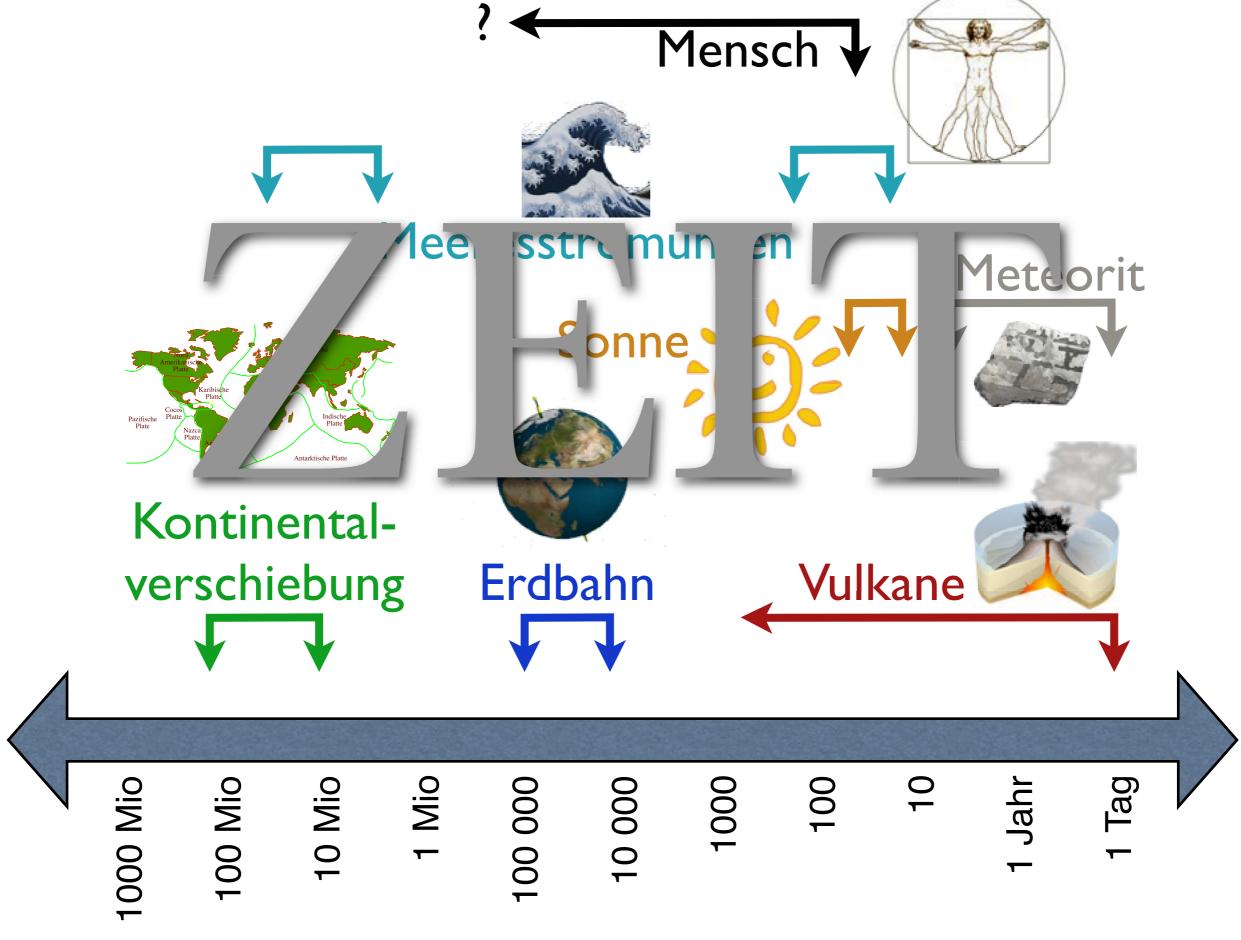


KRYOSPHÄRE

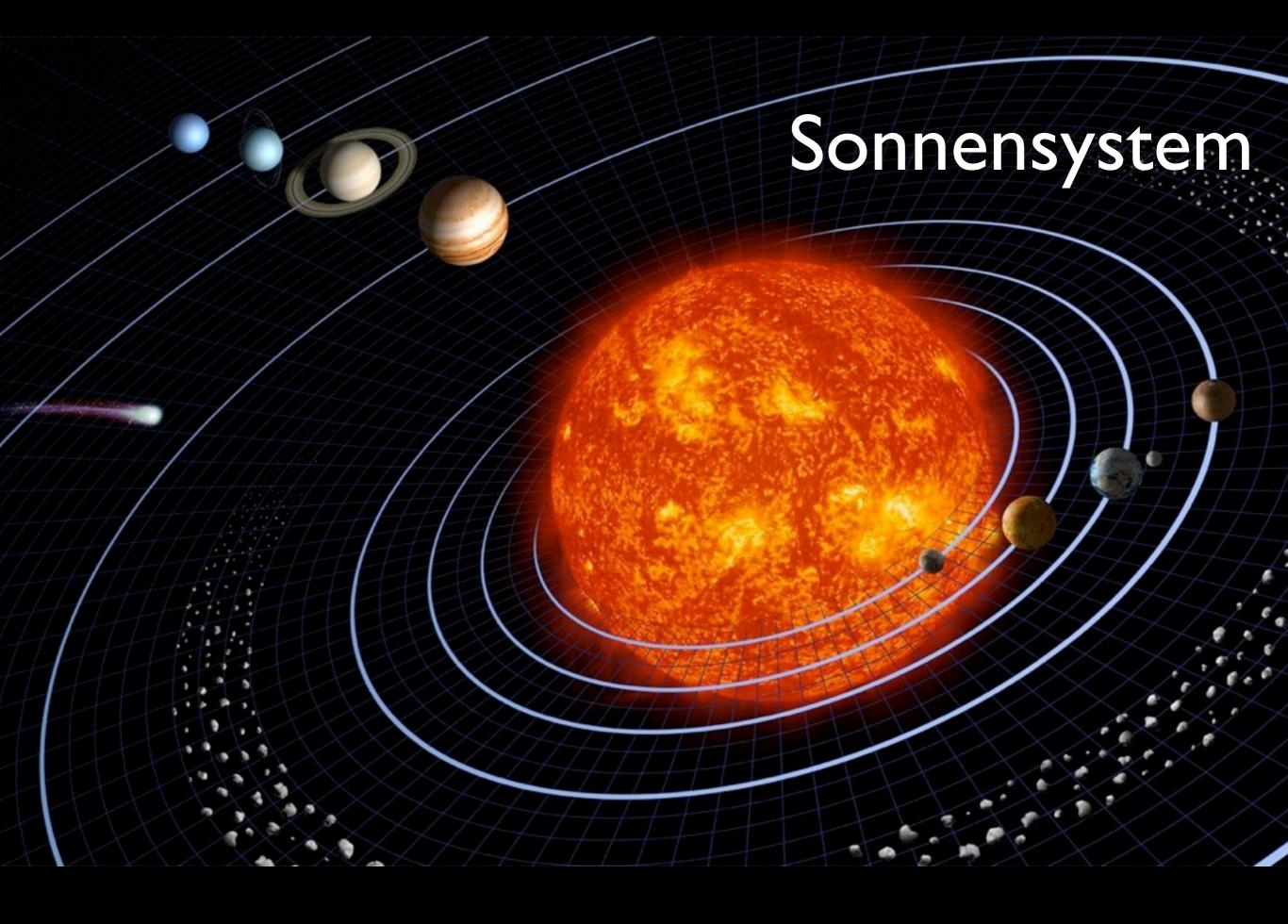
BIOSPHÄRE

LITHOSPHÄRE

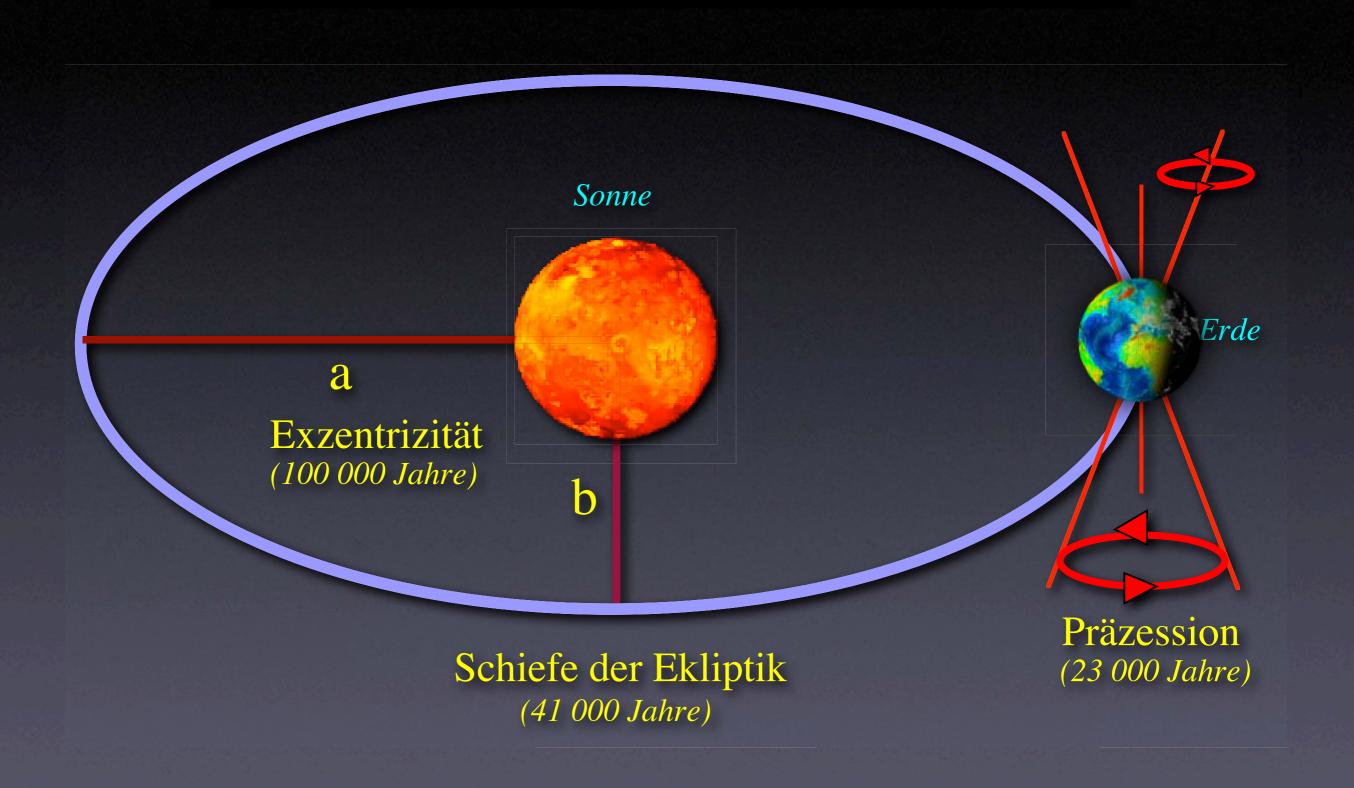
HYDROSPHÄRE

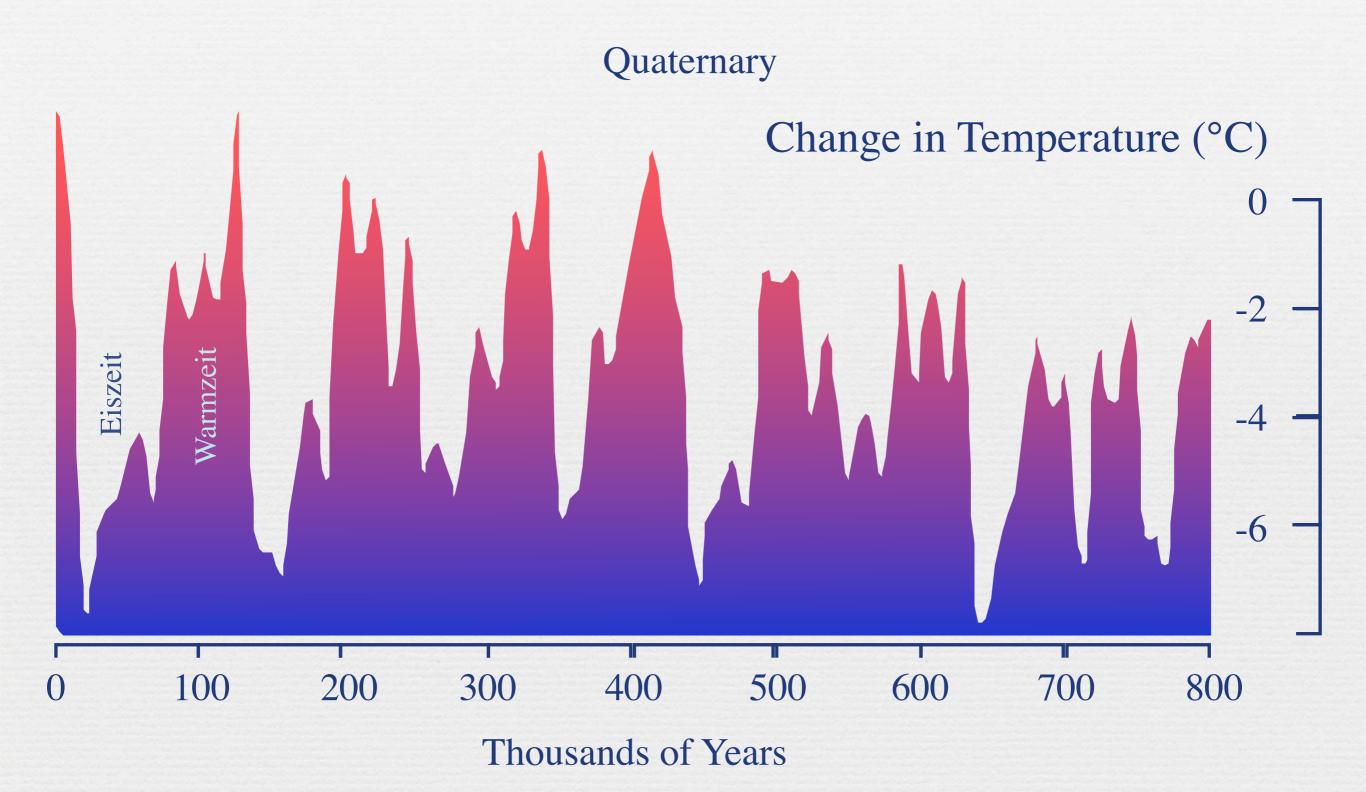


Zeitraum eines Klimawandels



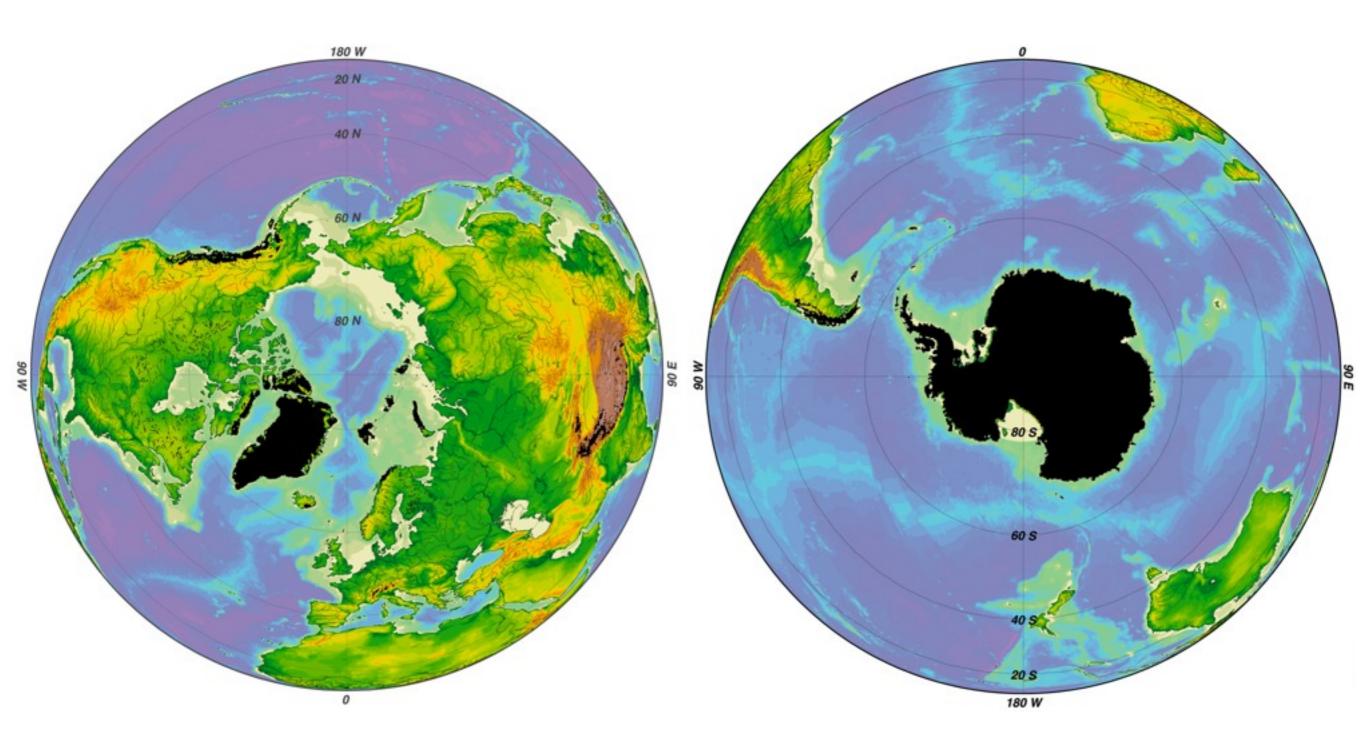
Klimafaktor Erdbahn

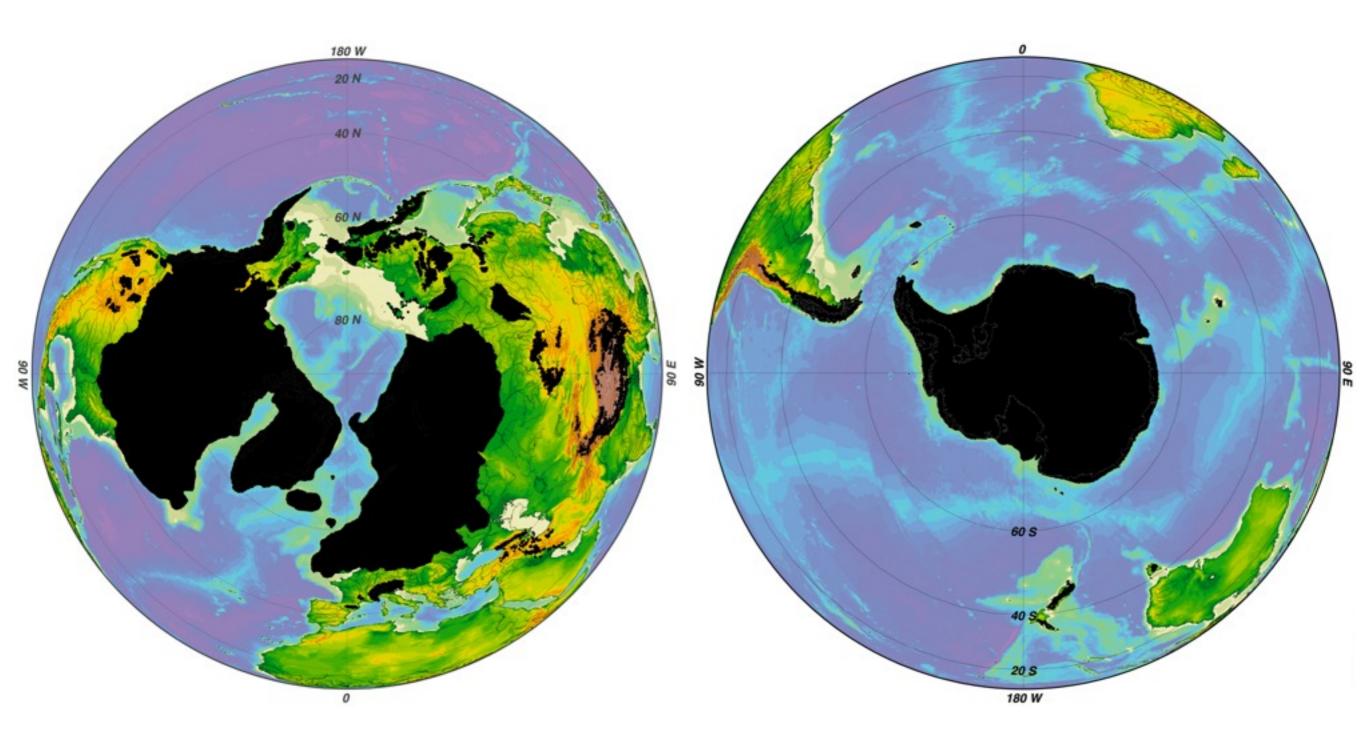


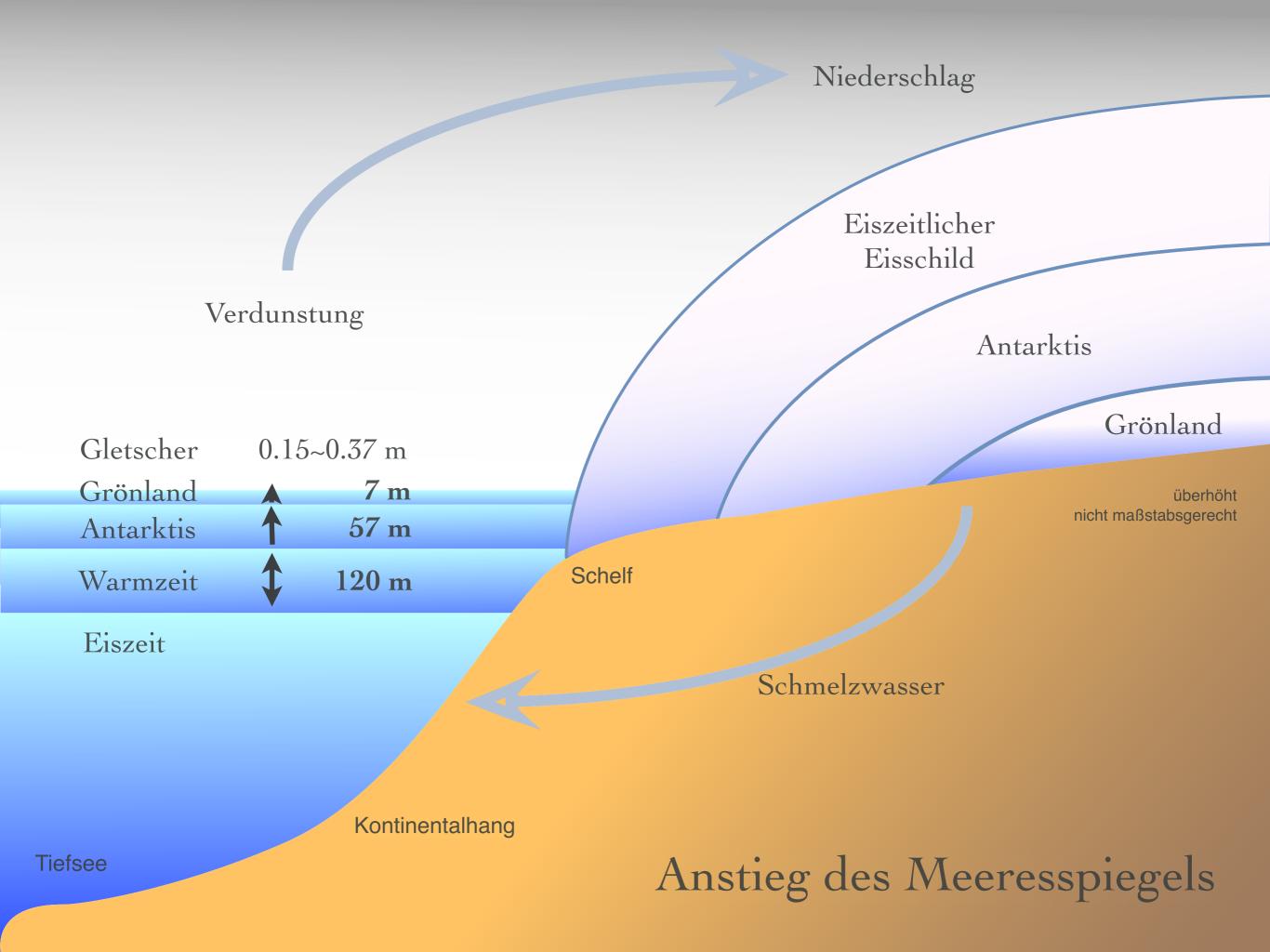




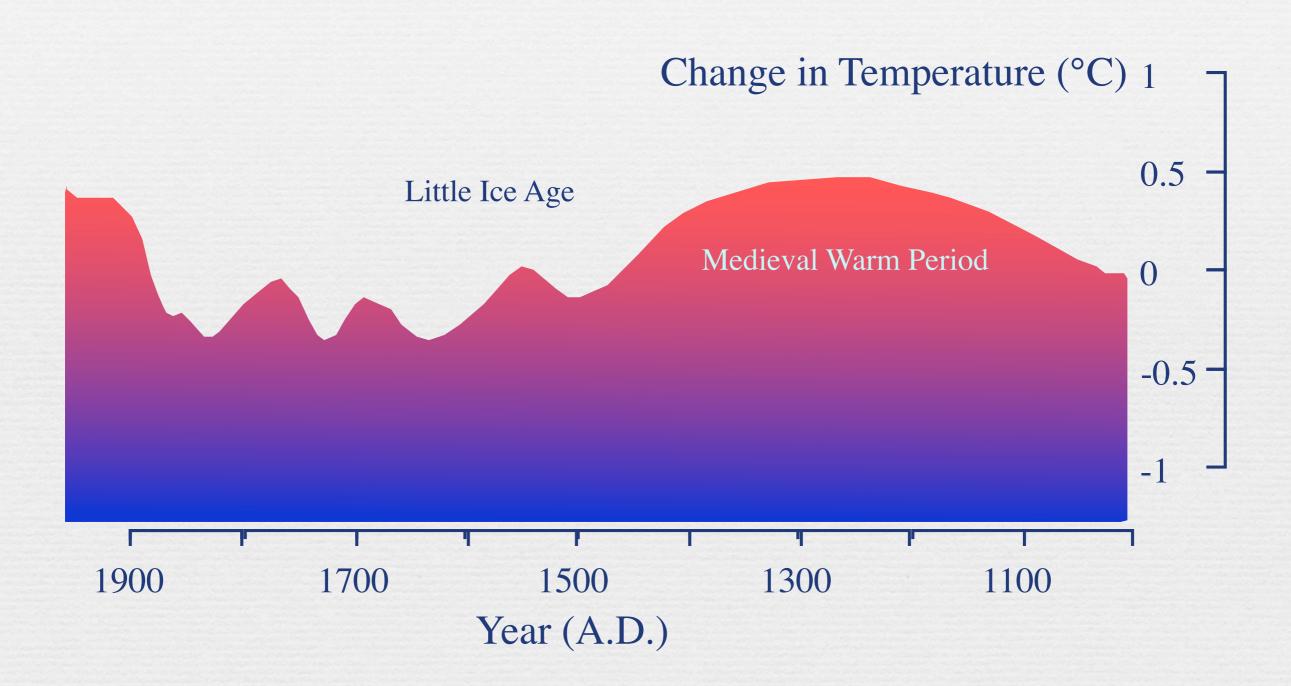
Eiszeitalter seit 1,8 Millionen Jahren

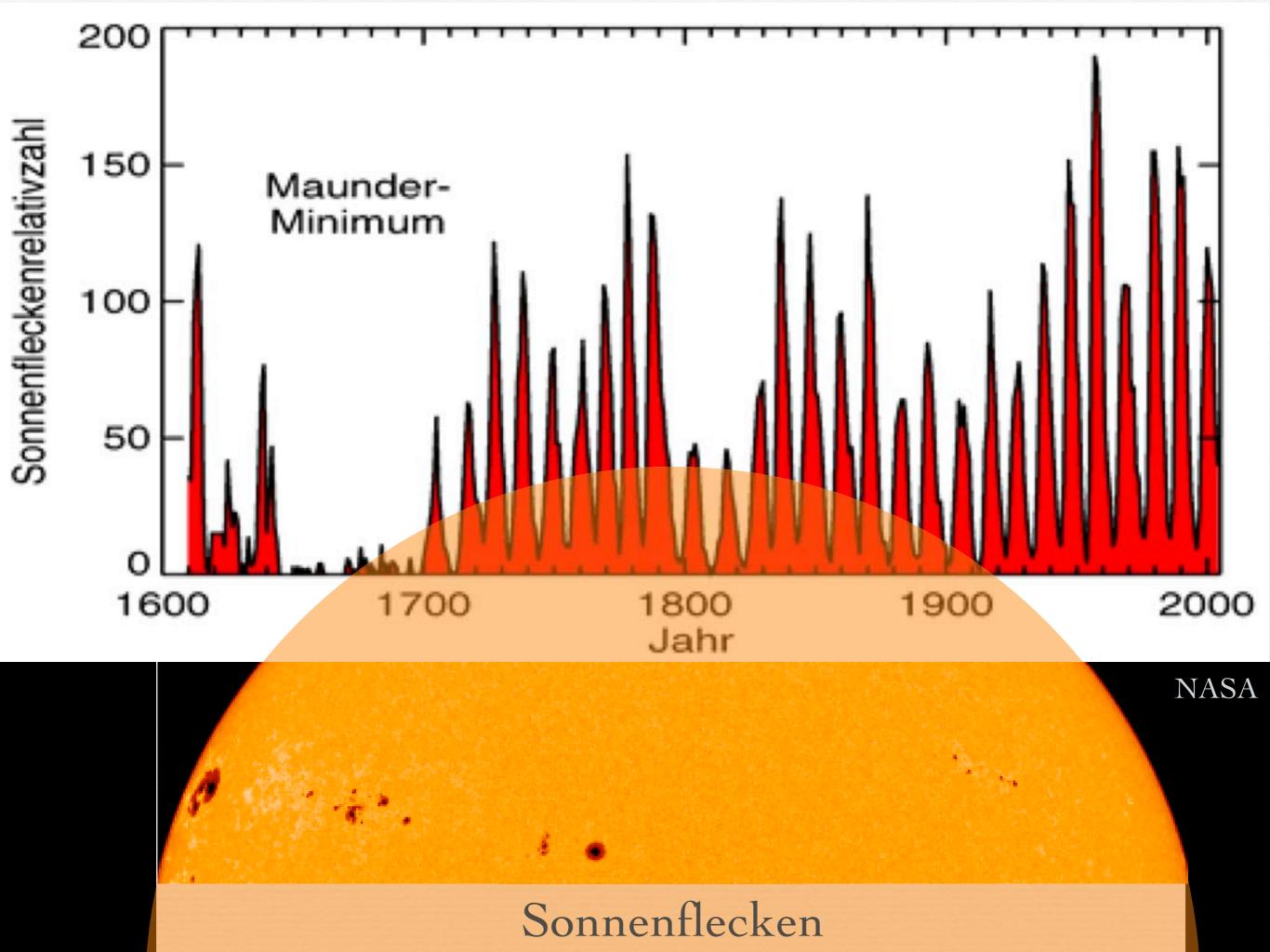




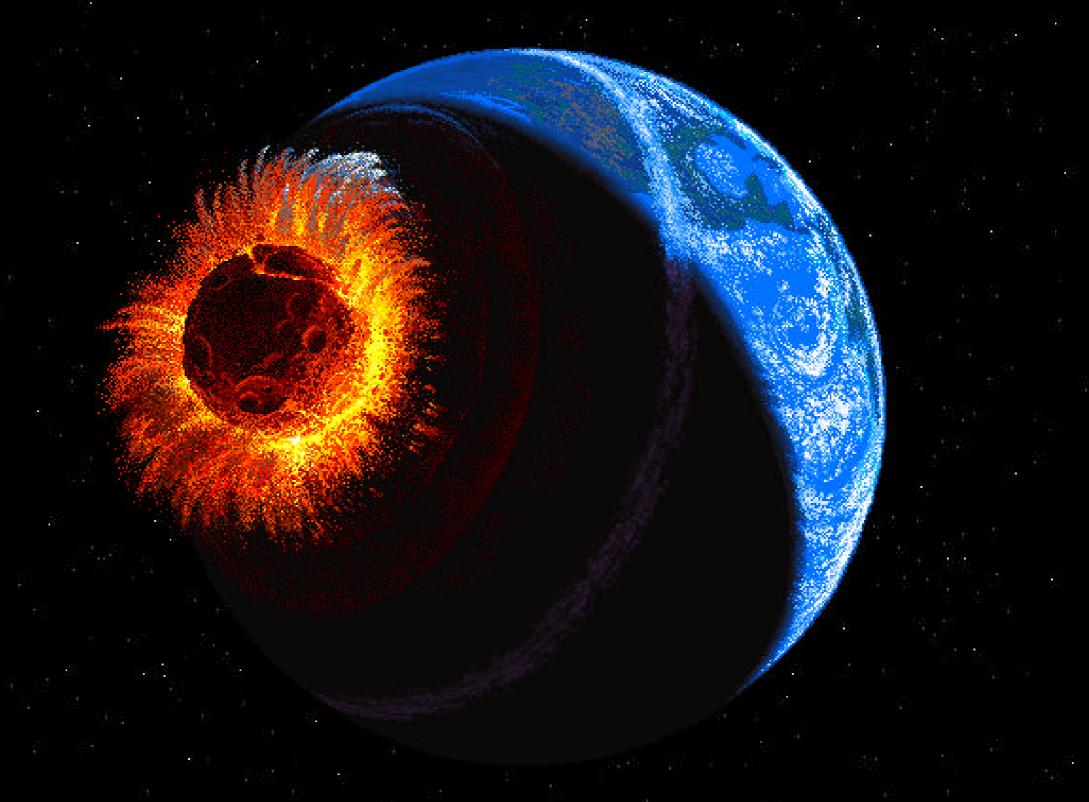


Klimafaktor SONNE Erde









Klimafaktor IMPAKT

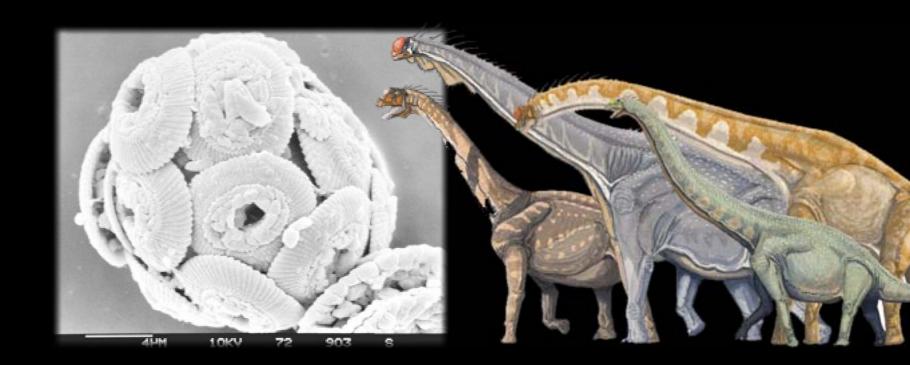
Meteoriteneinschlag

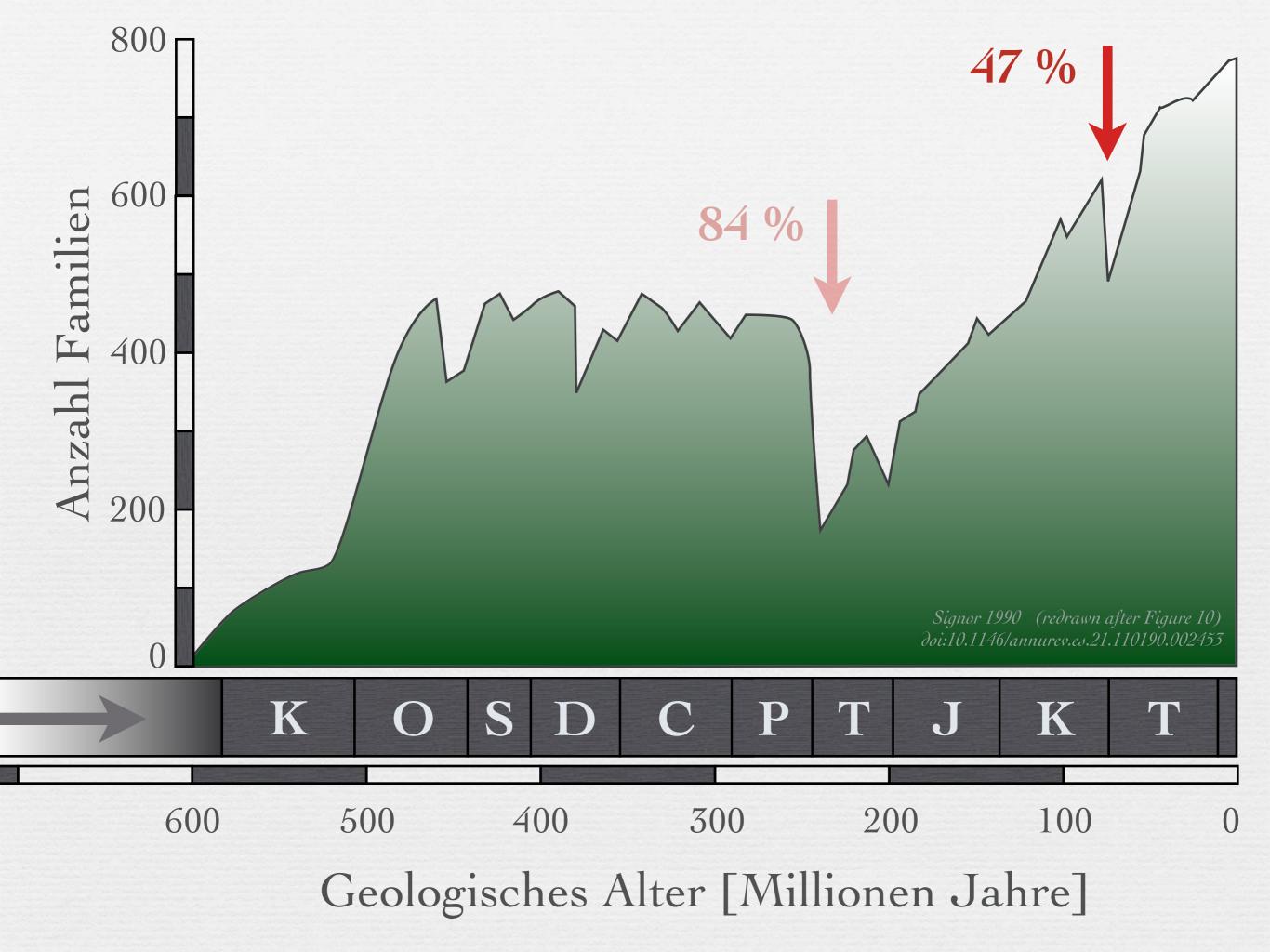
vor 65 Millionen Jahren (Kreide/Tertiär)

12 km Ø - 30 km/sec eq. 100 Mio Wasserstoffbomben 200 km Ø Krater

> Impaktwinter

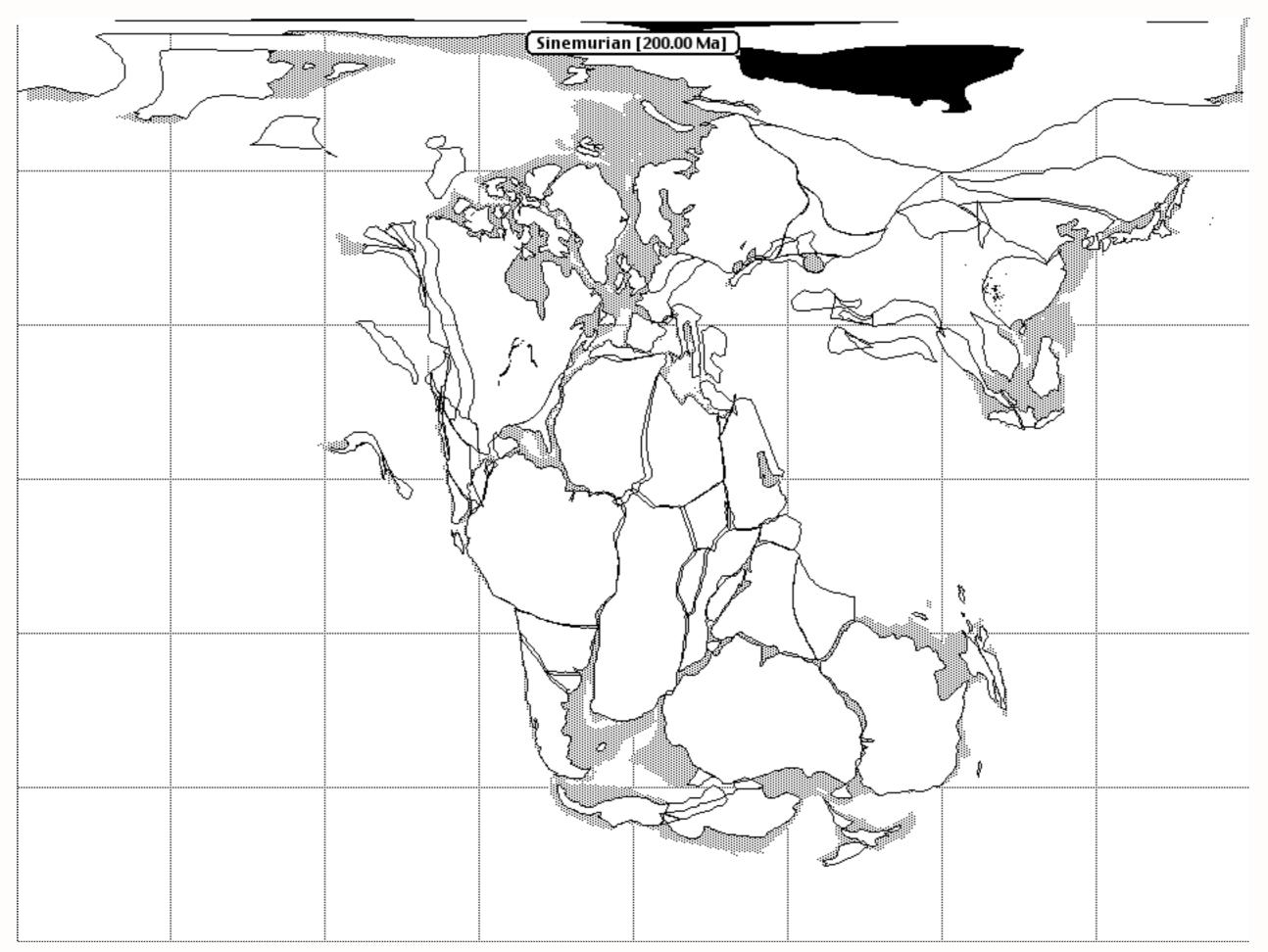






Lithosphäre







Joseph M.W.Turner (1817) Eruption of Vesuvius





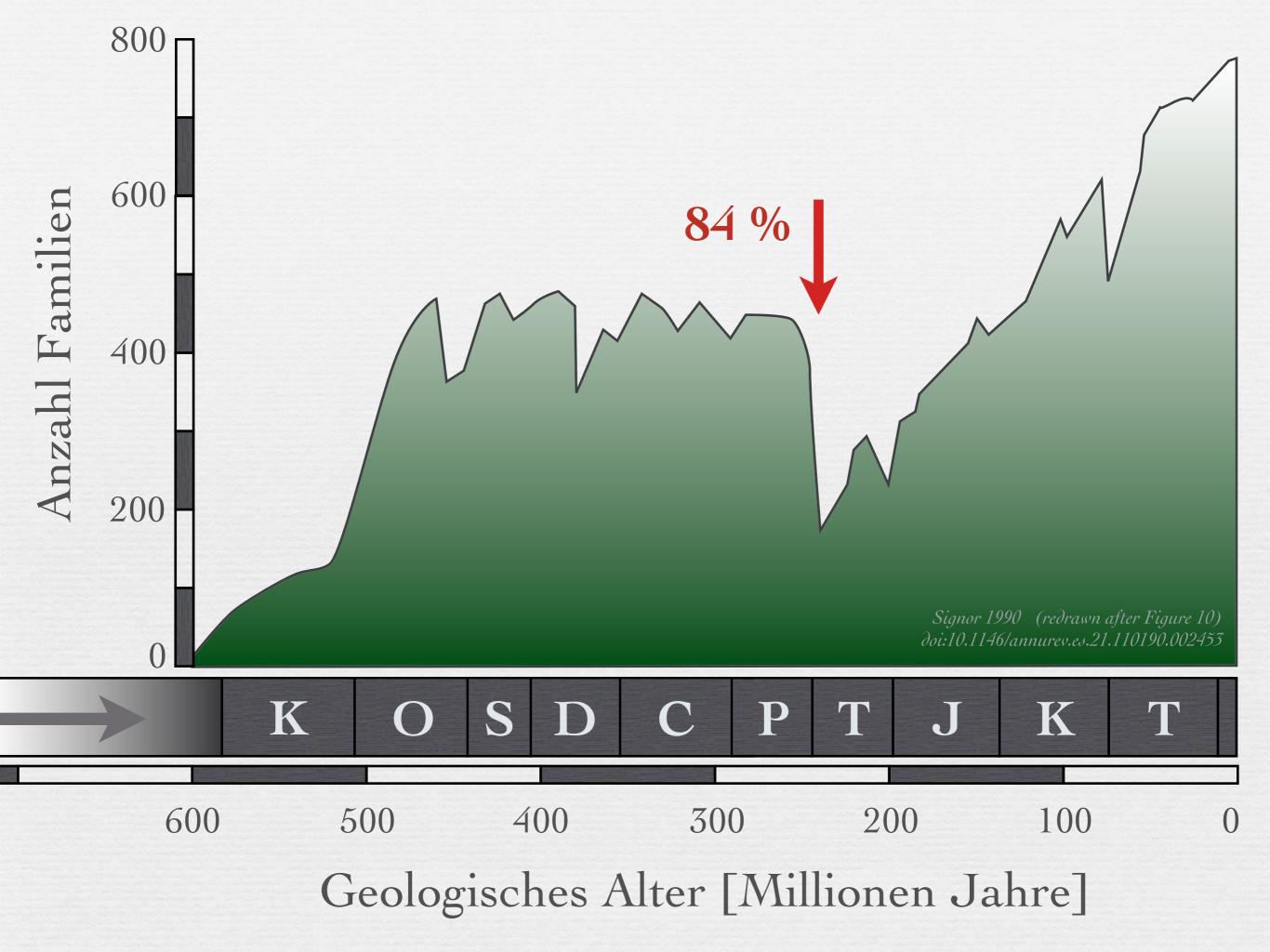
Joseph M.W.Turner (1838) Flint Castle



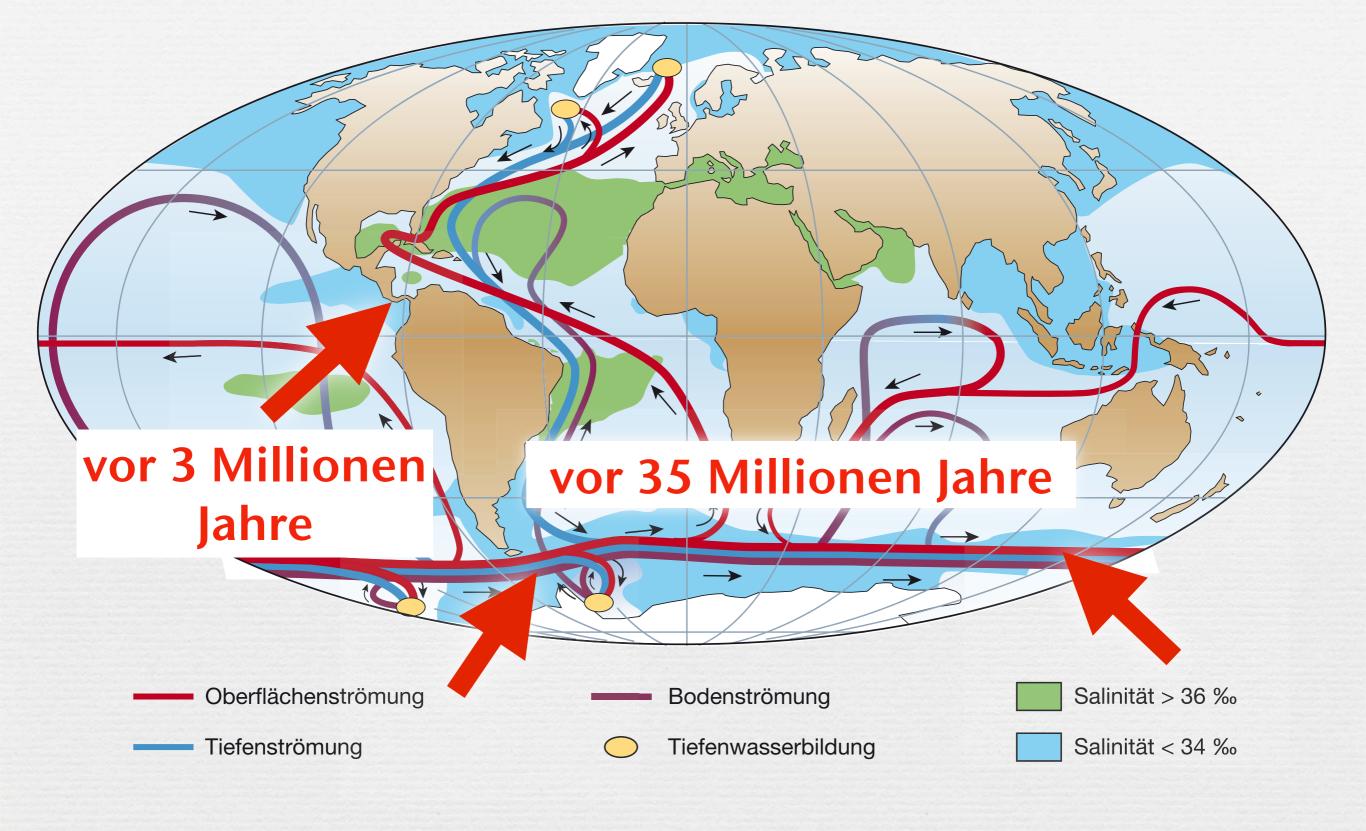


Plateaubasalte vor 250 Mio. Jahren (Sibirischer Trapp) CO₂-Gehalt +700 ppm



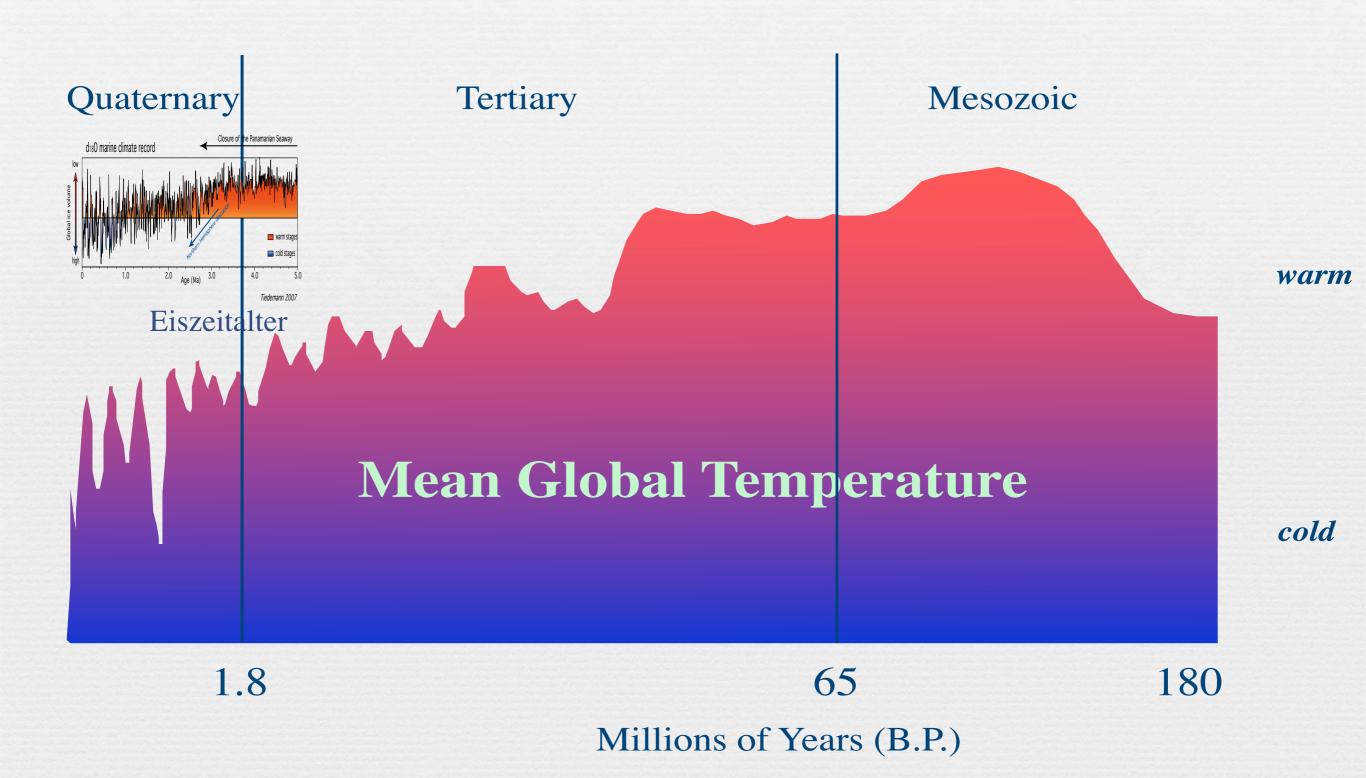


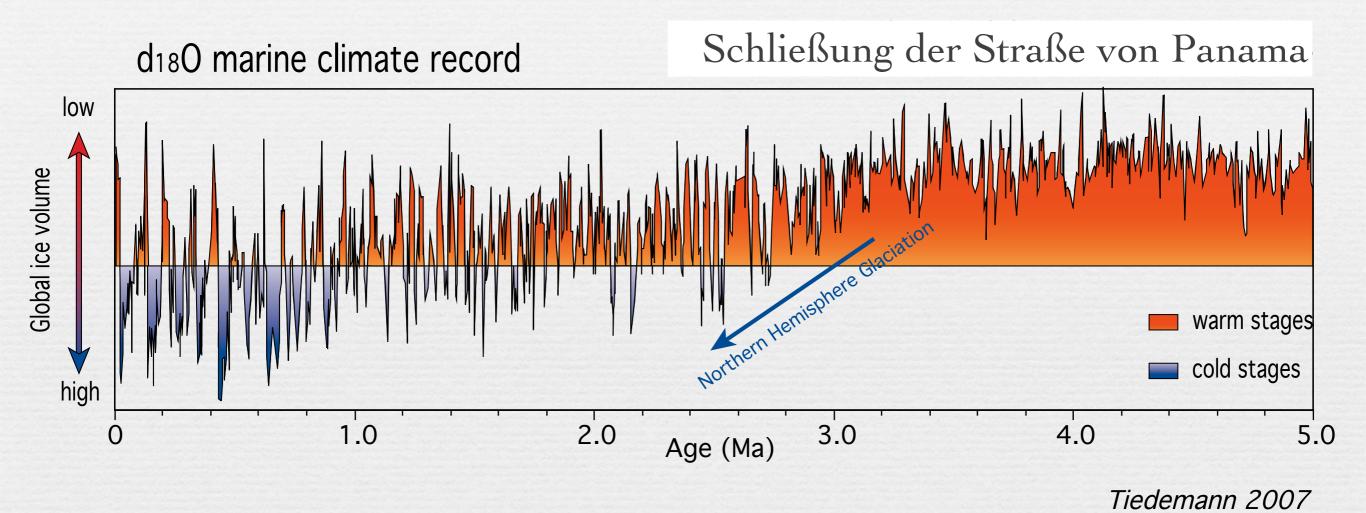
Hydrosphäre

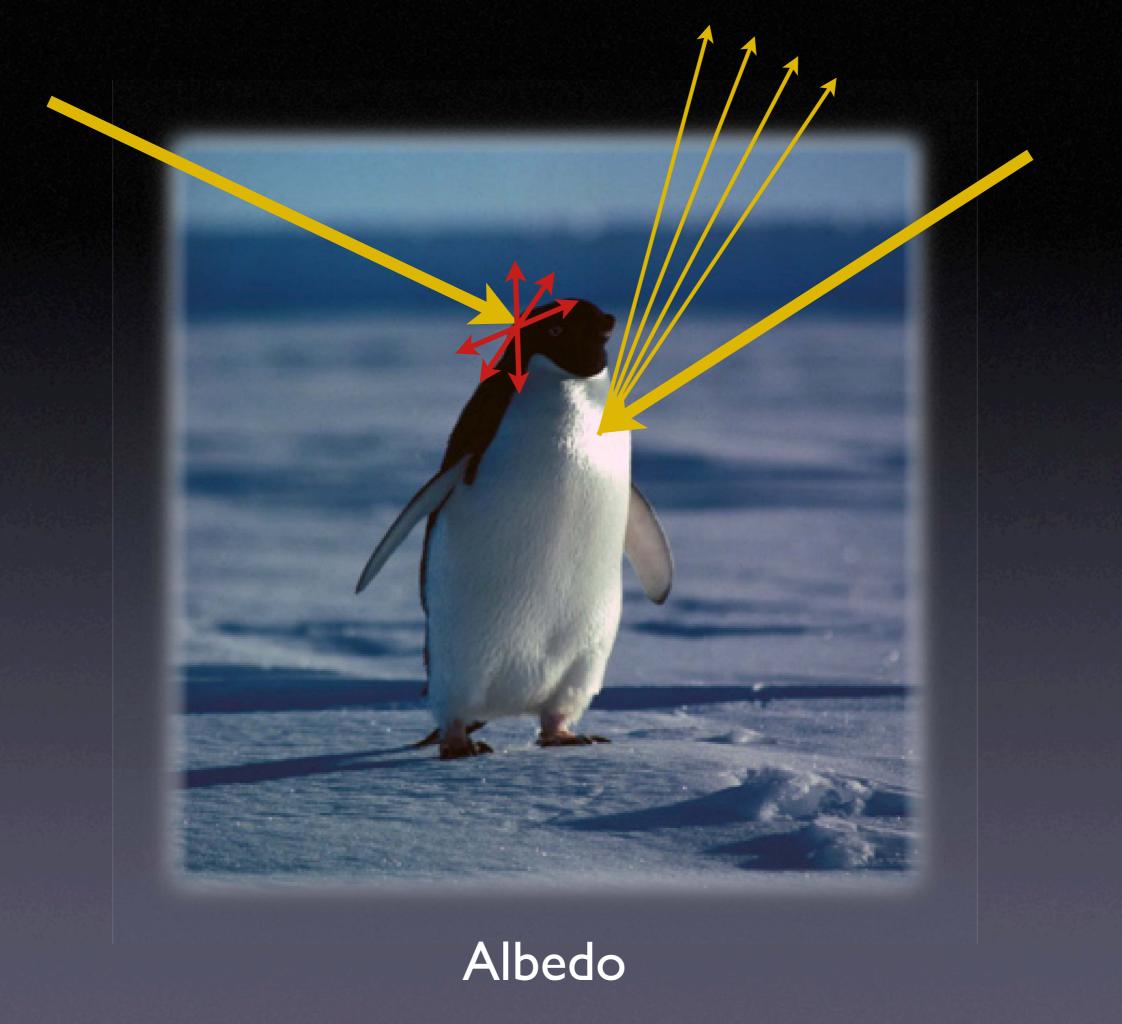


Klimafaktor Meeresströmung

(nach Rahmstorf 2002)

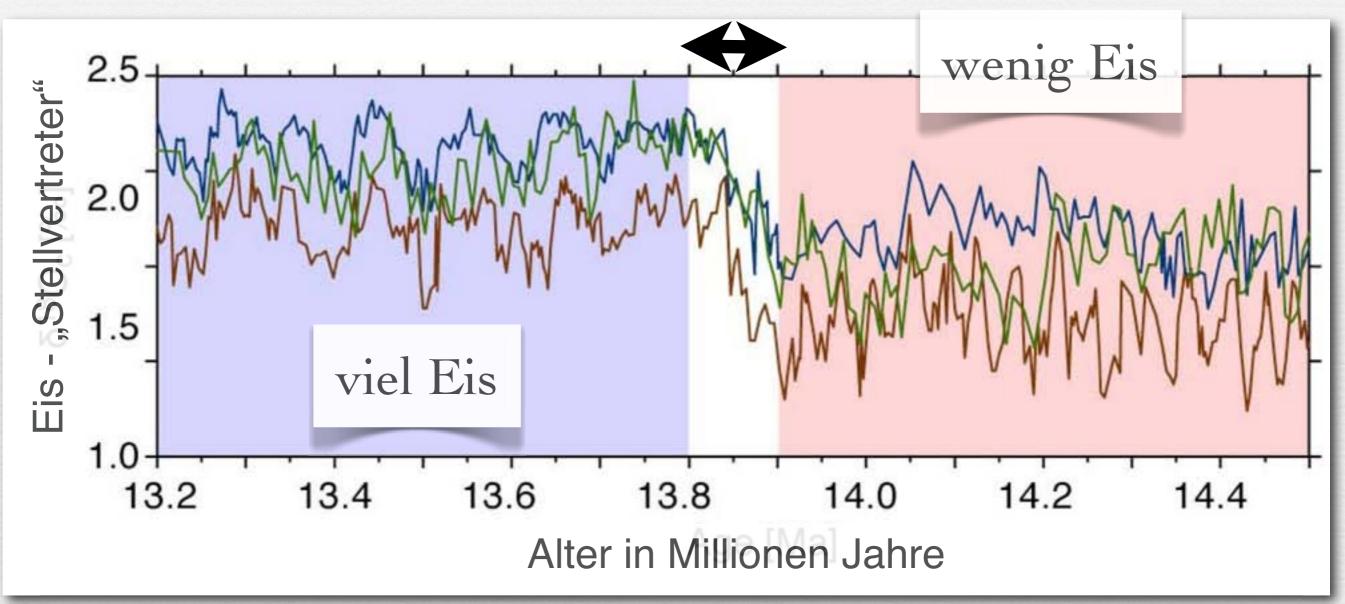






Abkühlung im Miozän

100 000 Jahre



Data from Holburn et al. 2005, Shevenell et al. 2004; Grafic after Langebroek et al. 2009





Olivin



Startseite

Aktuelles

- → Kurzmeldungen
- Pressemitteilungen
- Pressearchiv



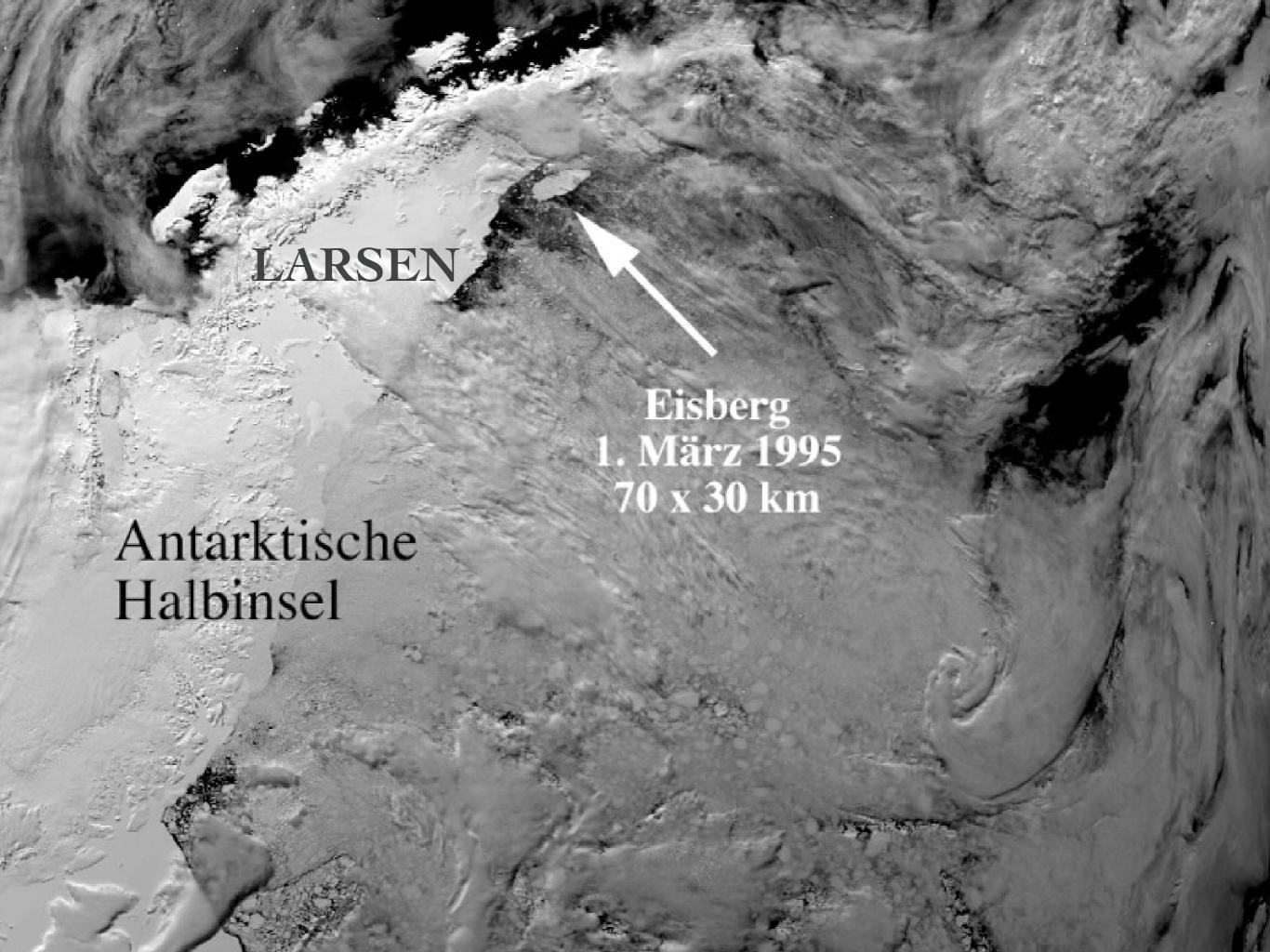
9. November 2010: Wie viel Kohlendioxid kann der Atmosphäre entzogen werden, wenn das Mineral Olivin an Land vermehrt aufgelöst wird?

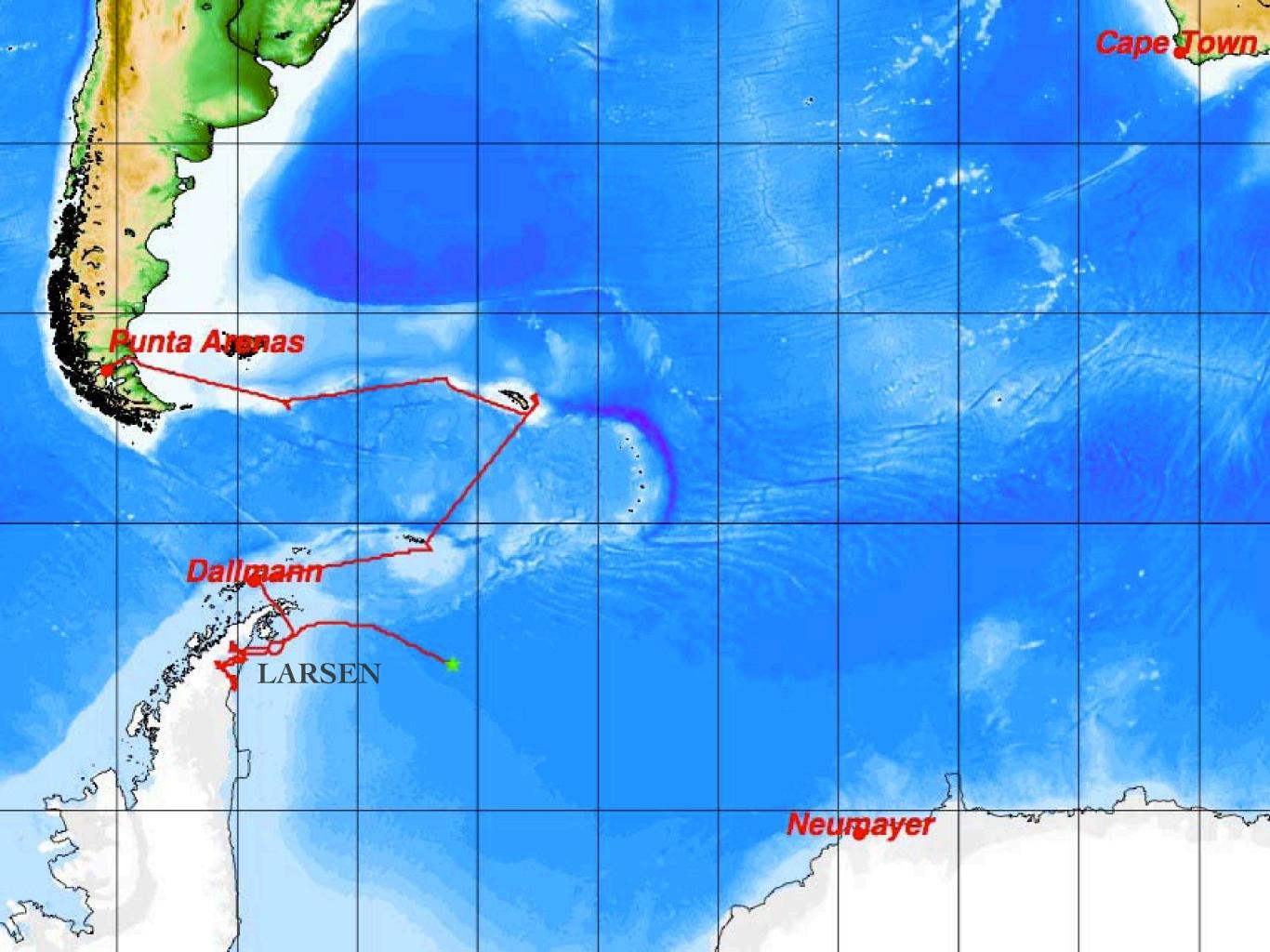




Flüsse -> Ozean -> Sedimente

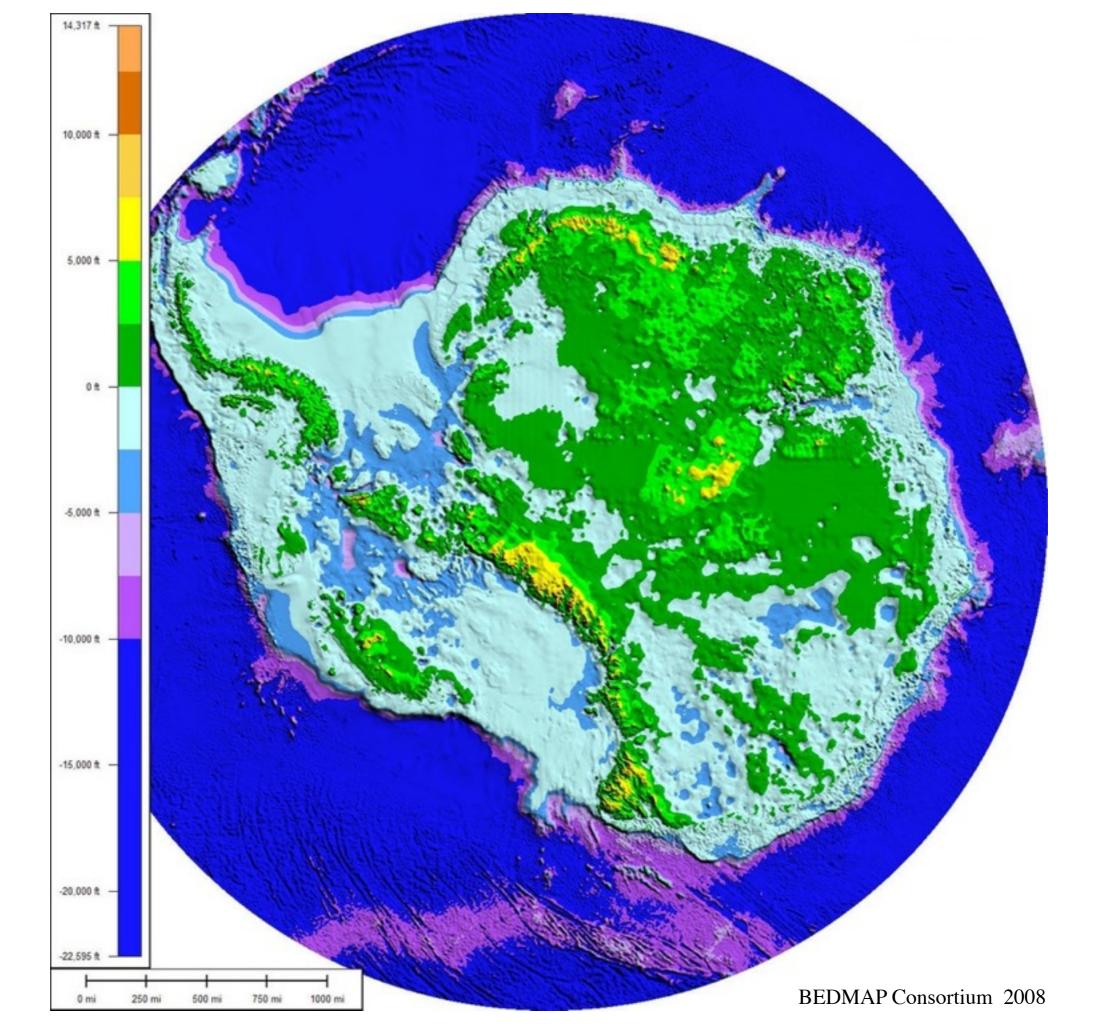
Kryosphäre



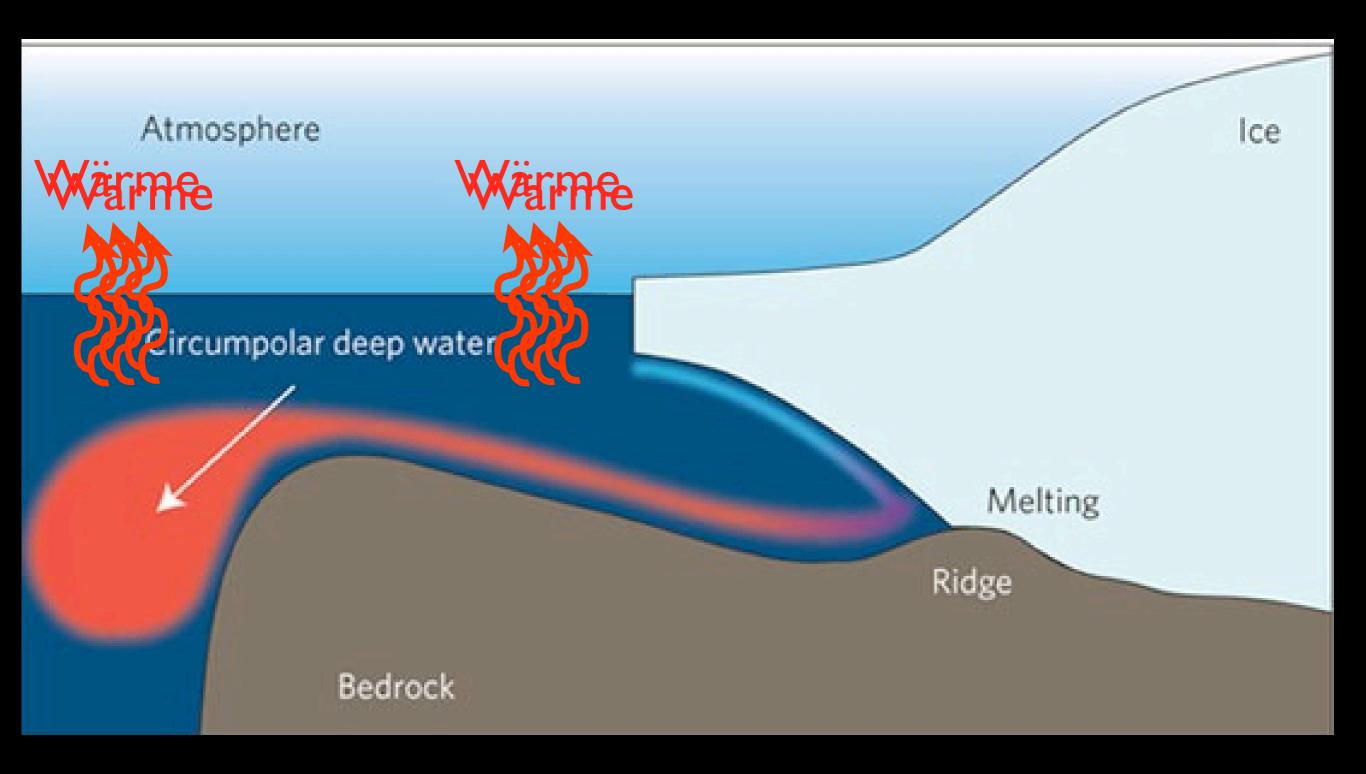


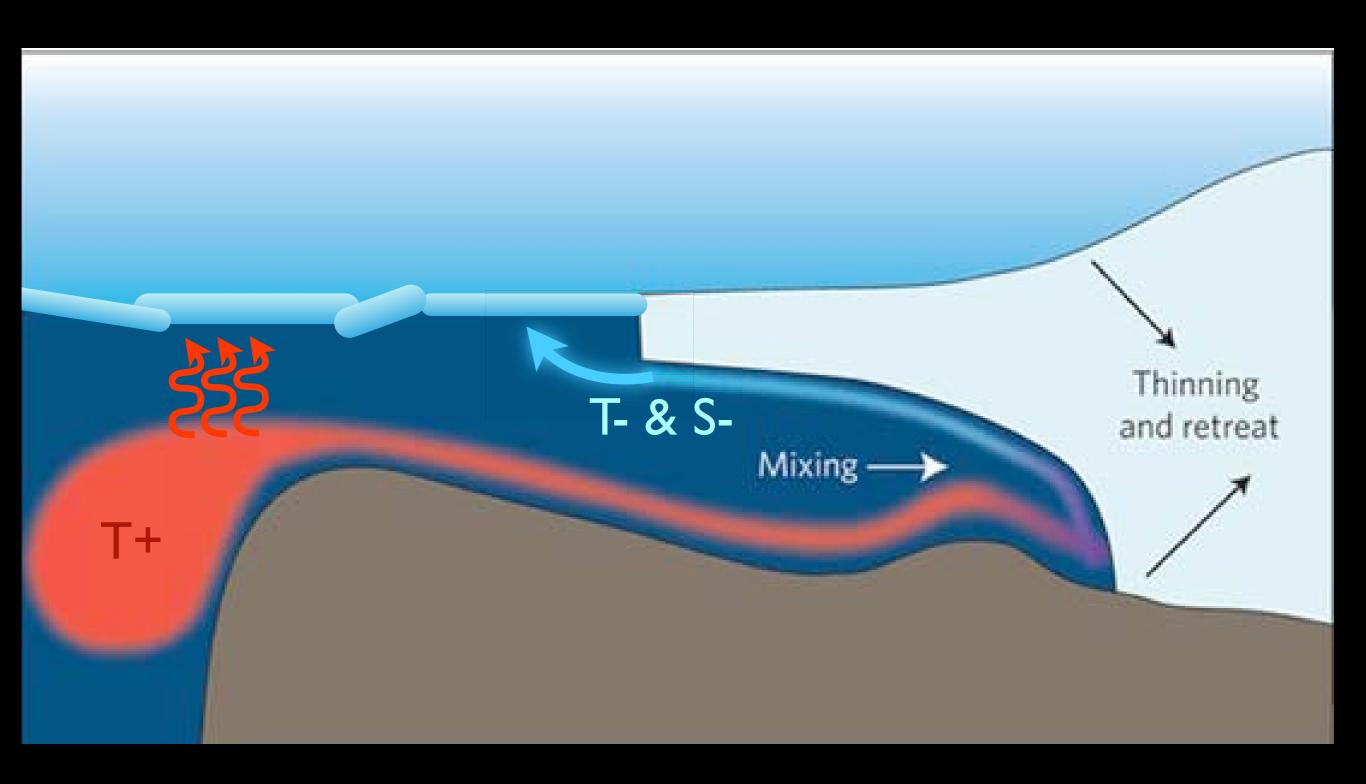






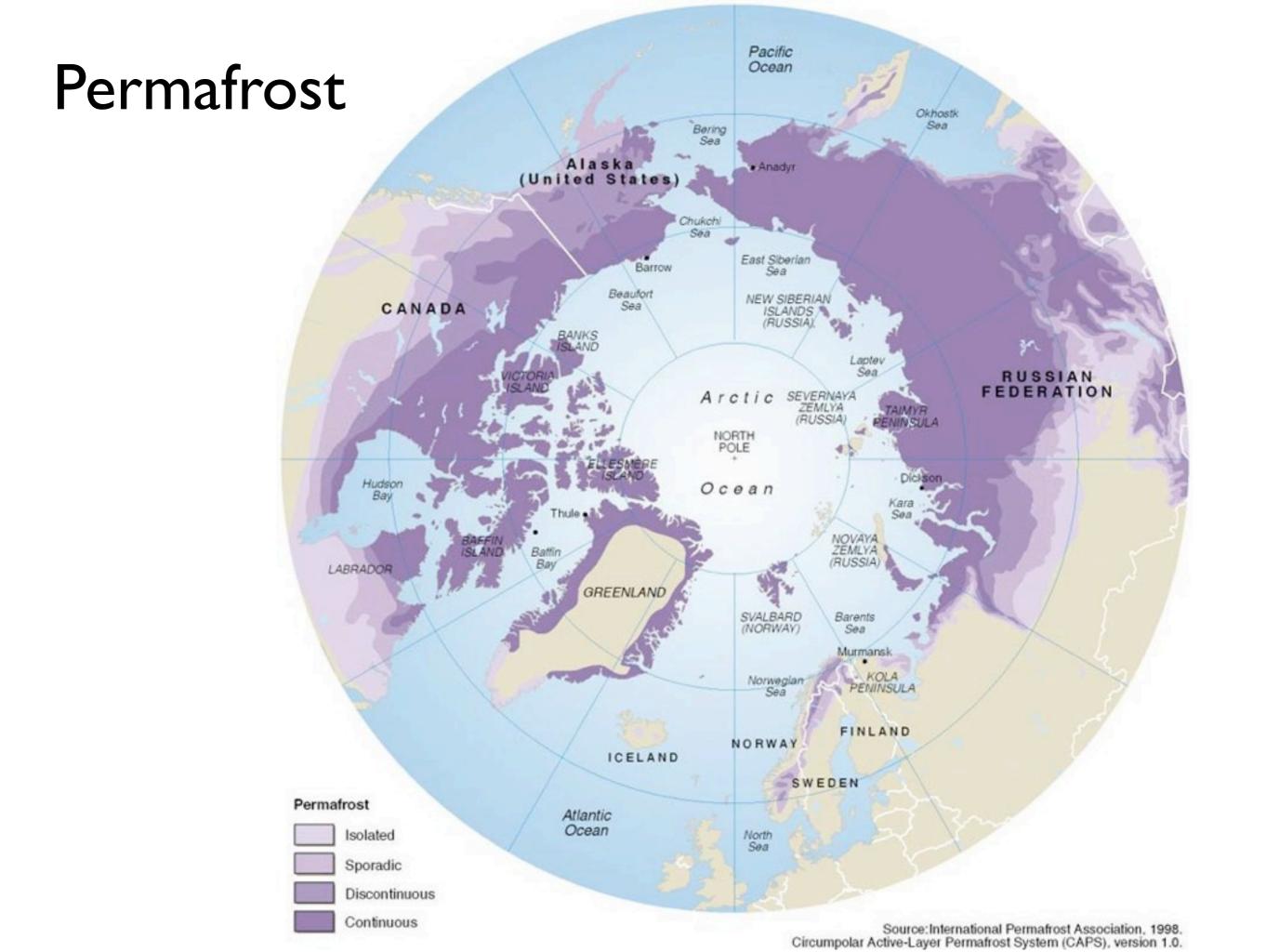






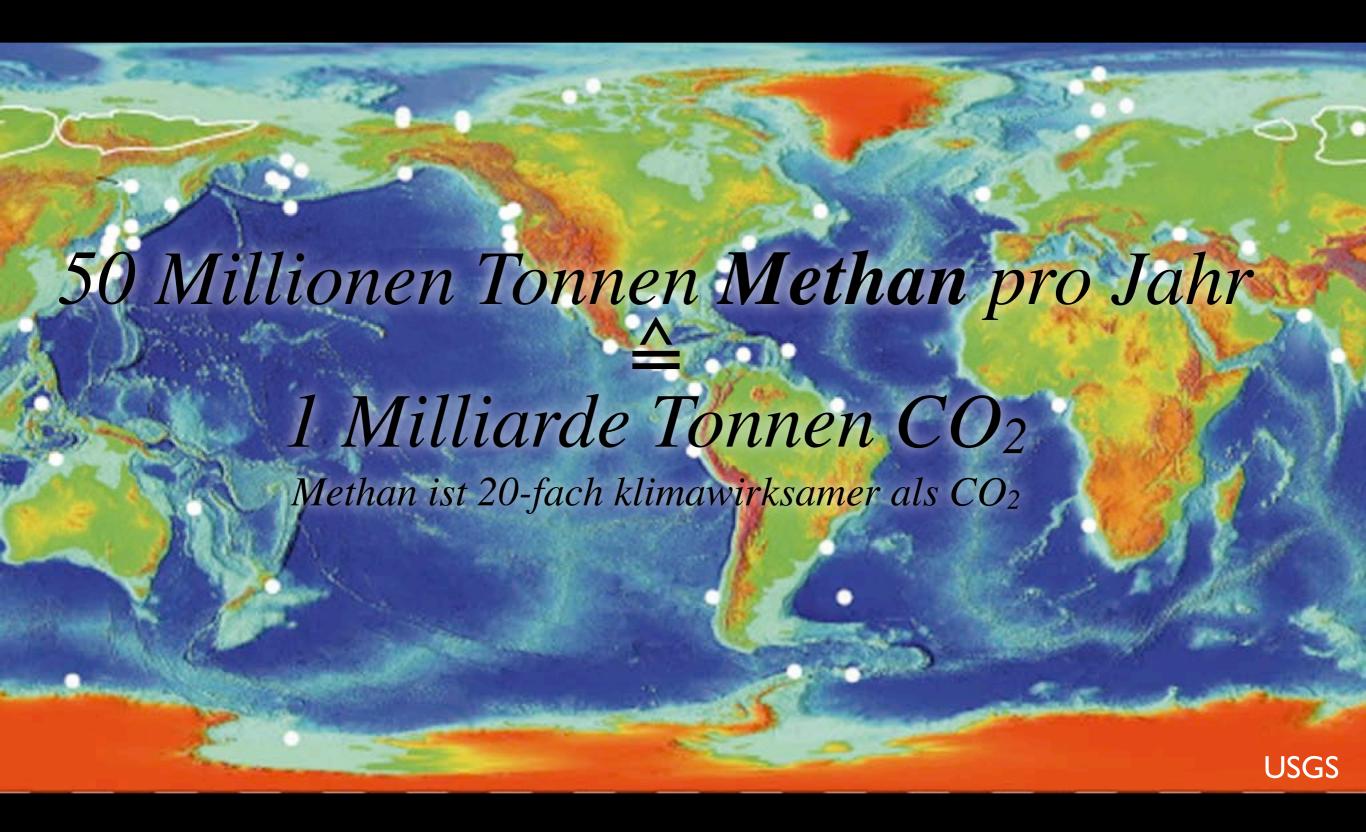
Atmosphäre





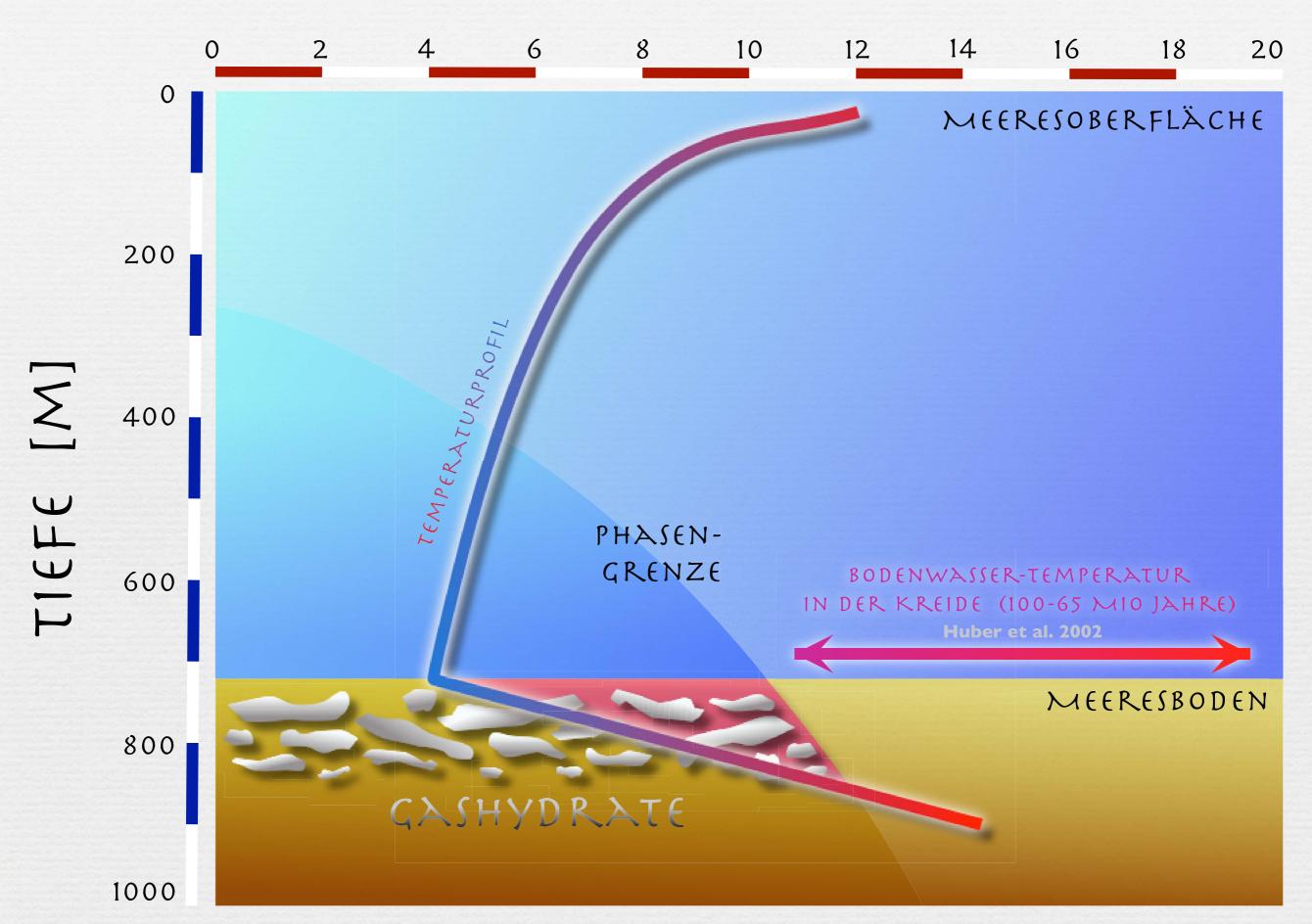


Gashydrate

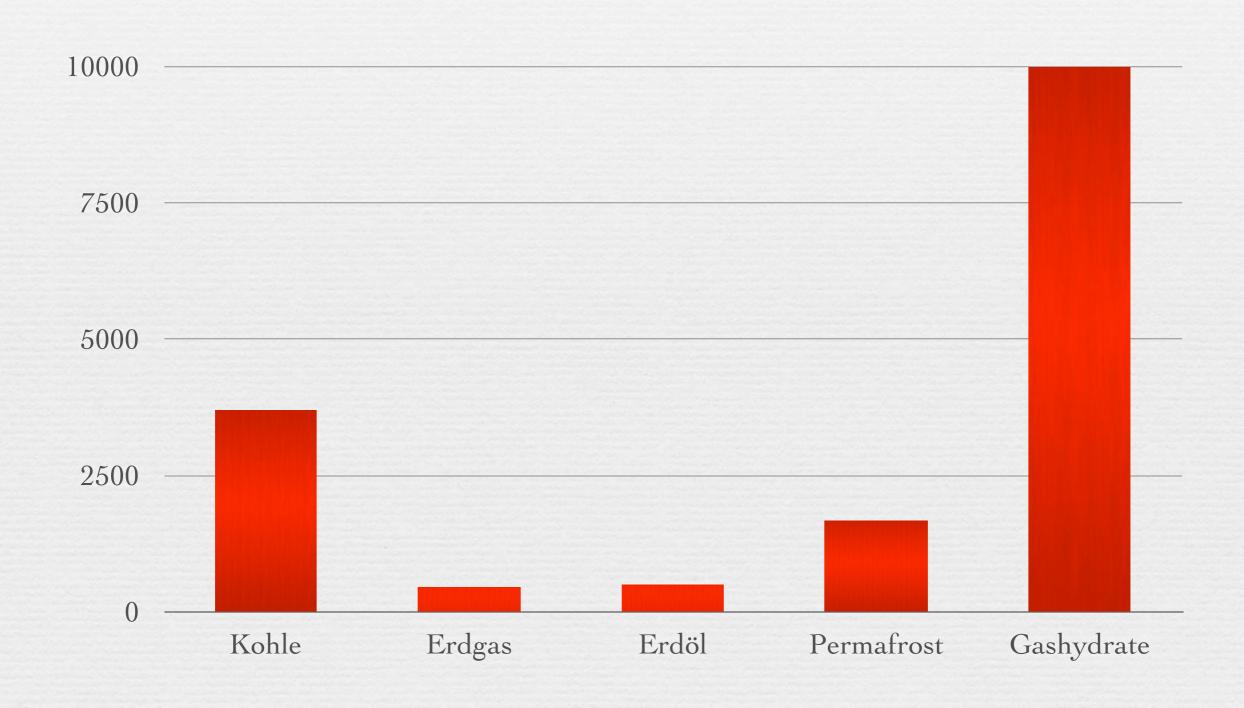




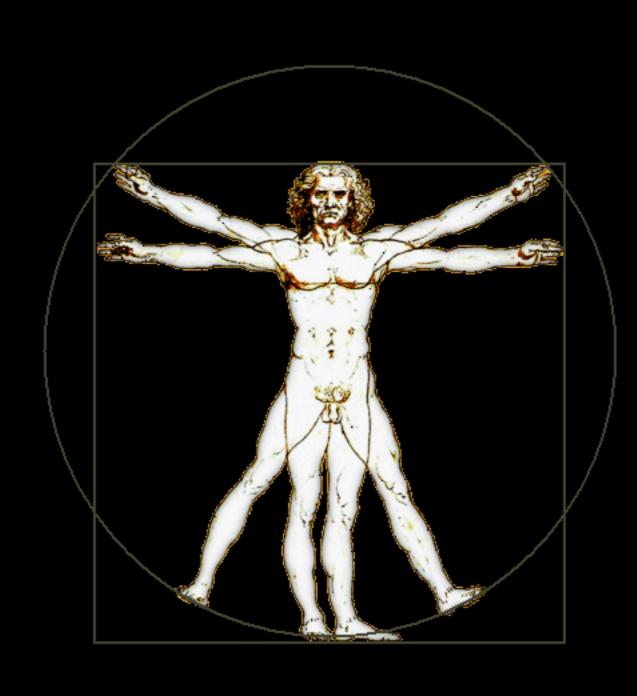
TEMPERATUR [°C]

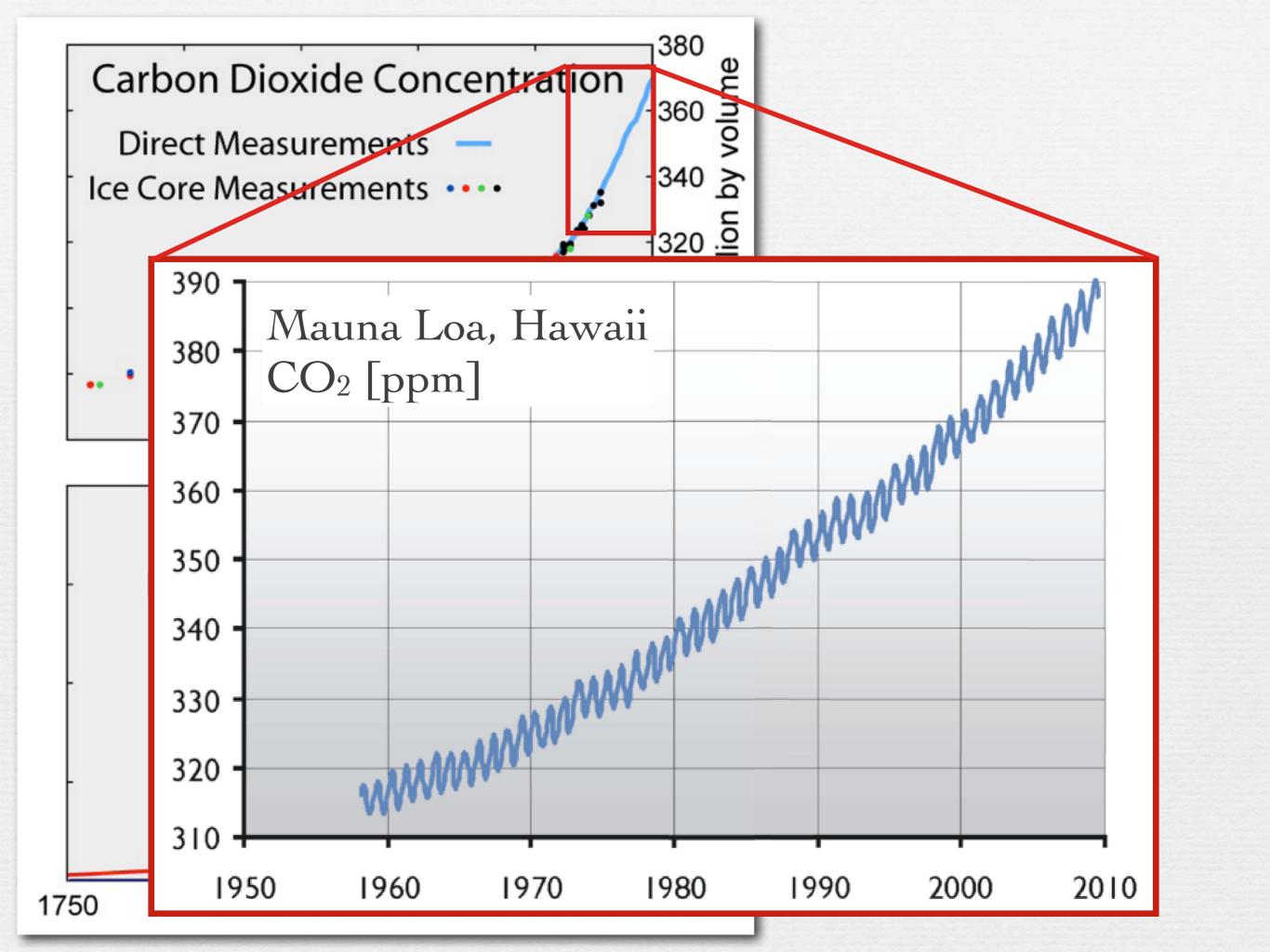


Kohlenstoff - Reservoir [GT]

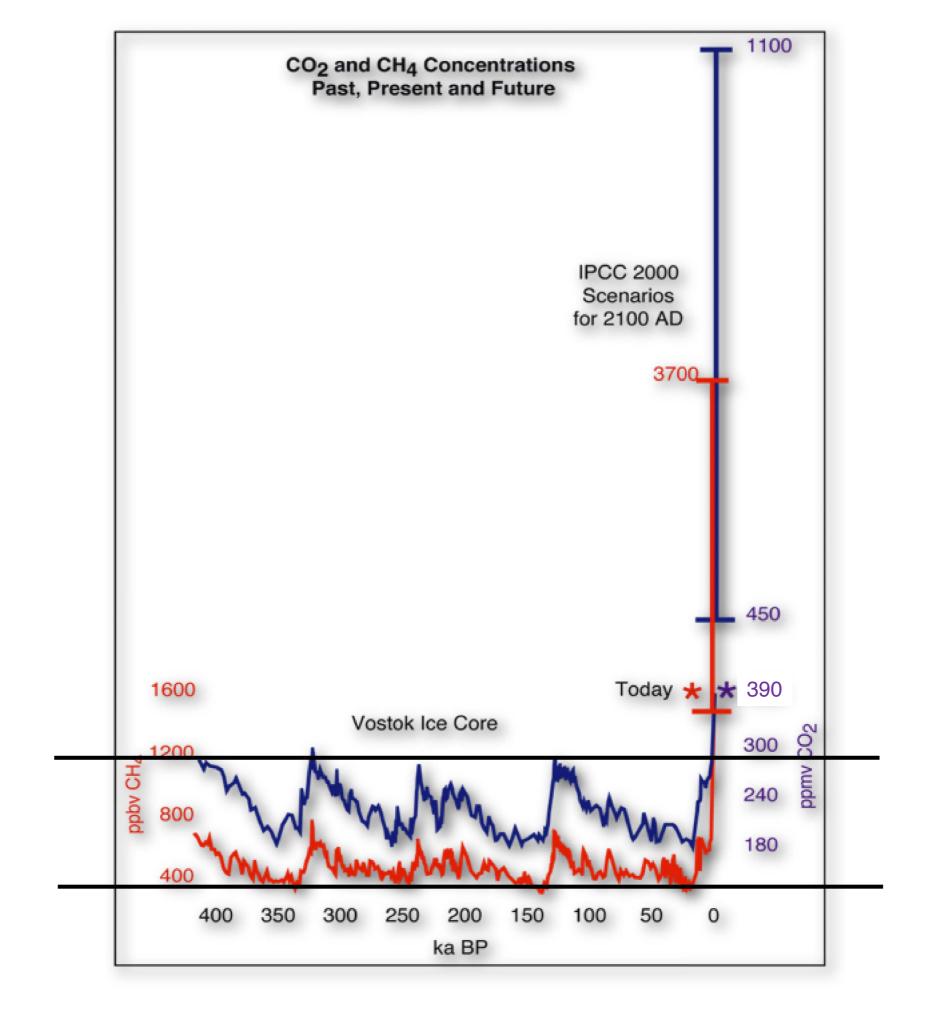


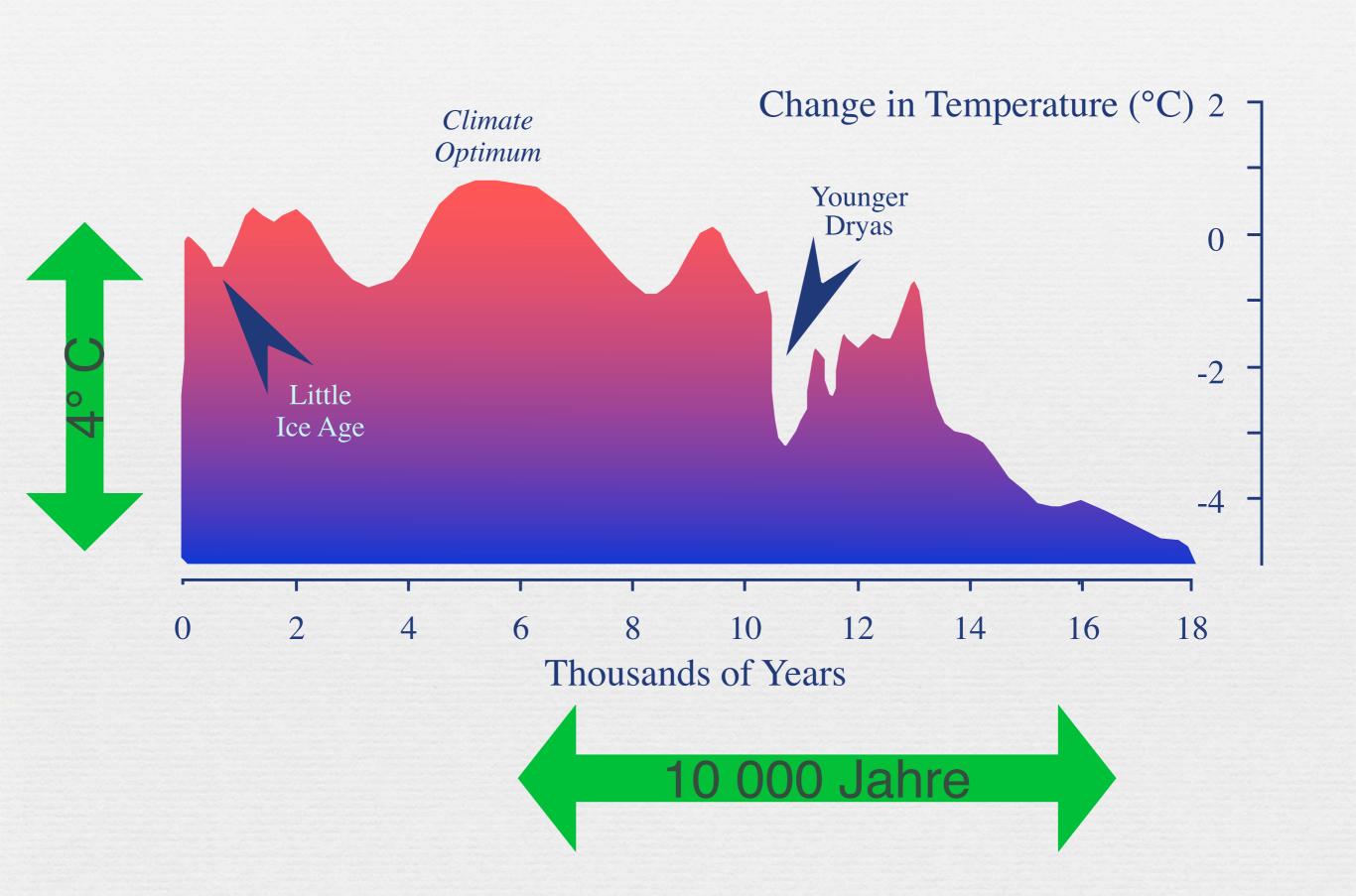
Anthroposphäre

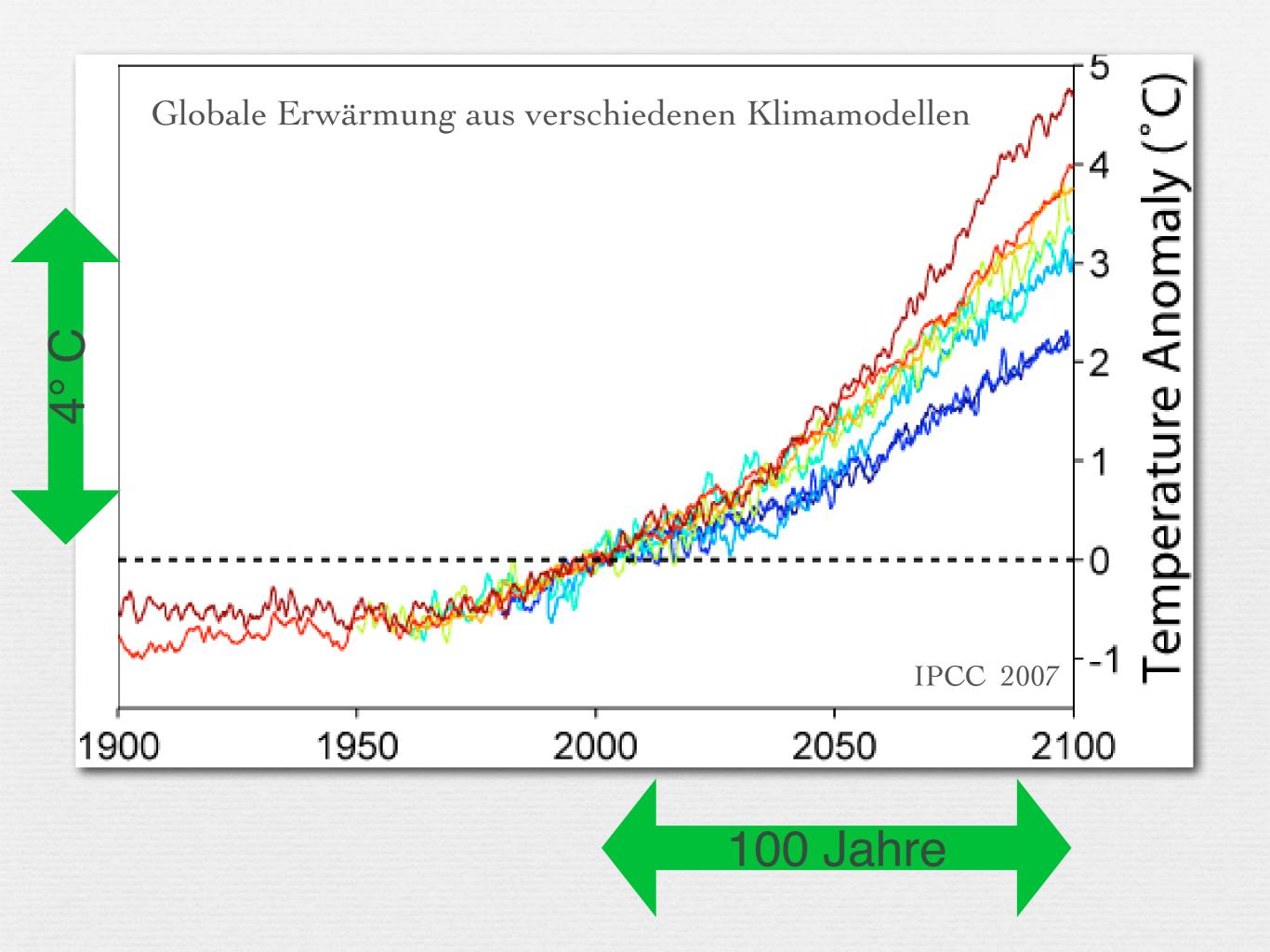




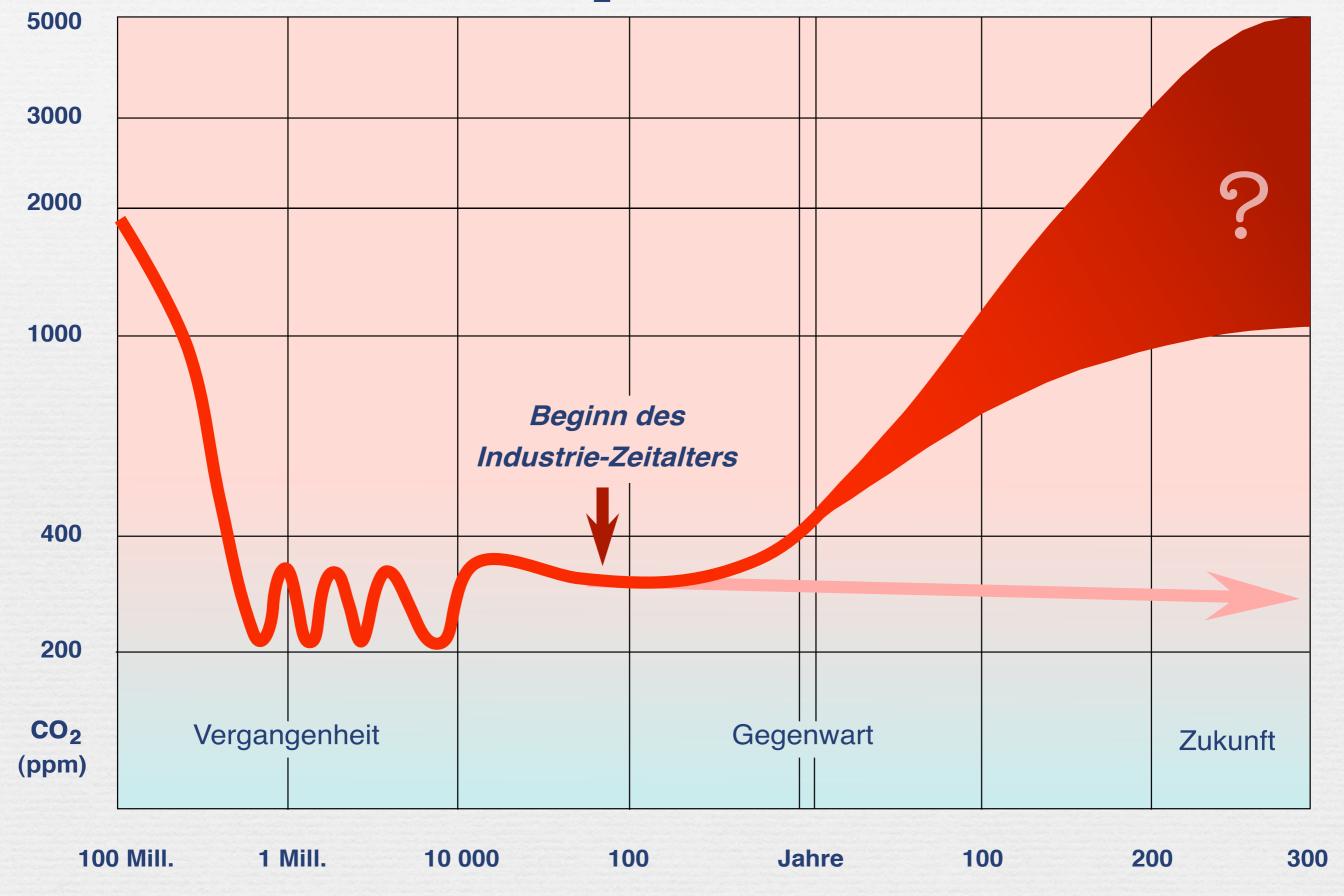




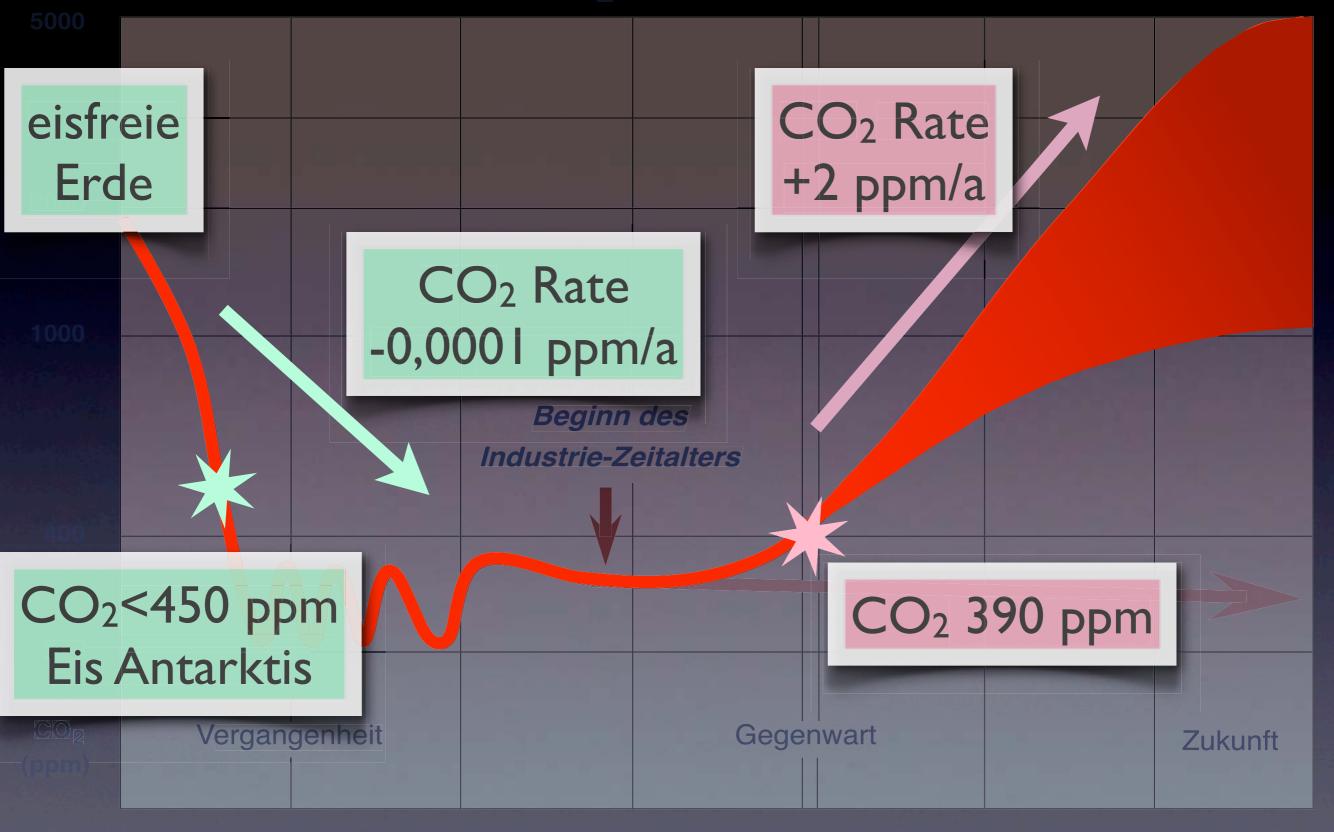




Entwicklung des CO₂-Gehaltes in der Atmosphäre



Entwicklung des CO₂-Gehaltes in der Atmosphäre





Die nächste Eiszeit kommt bestimmt?