Heidelberger Geographische Gesellschaft

Der Klimawandel in der Antarktis

– Impressionen eines Forschungsaufenthalts

Prof. Dr. Alexander Siegmund
Pädagogische Hochschule Heidelberg
Abteilung Geographie

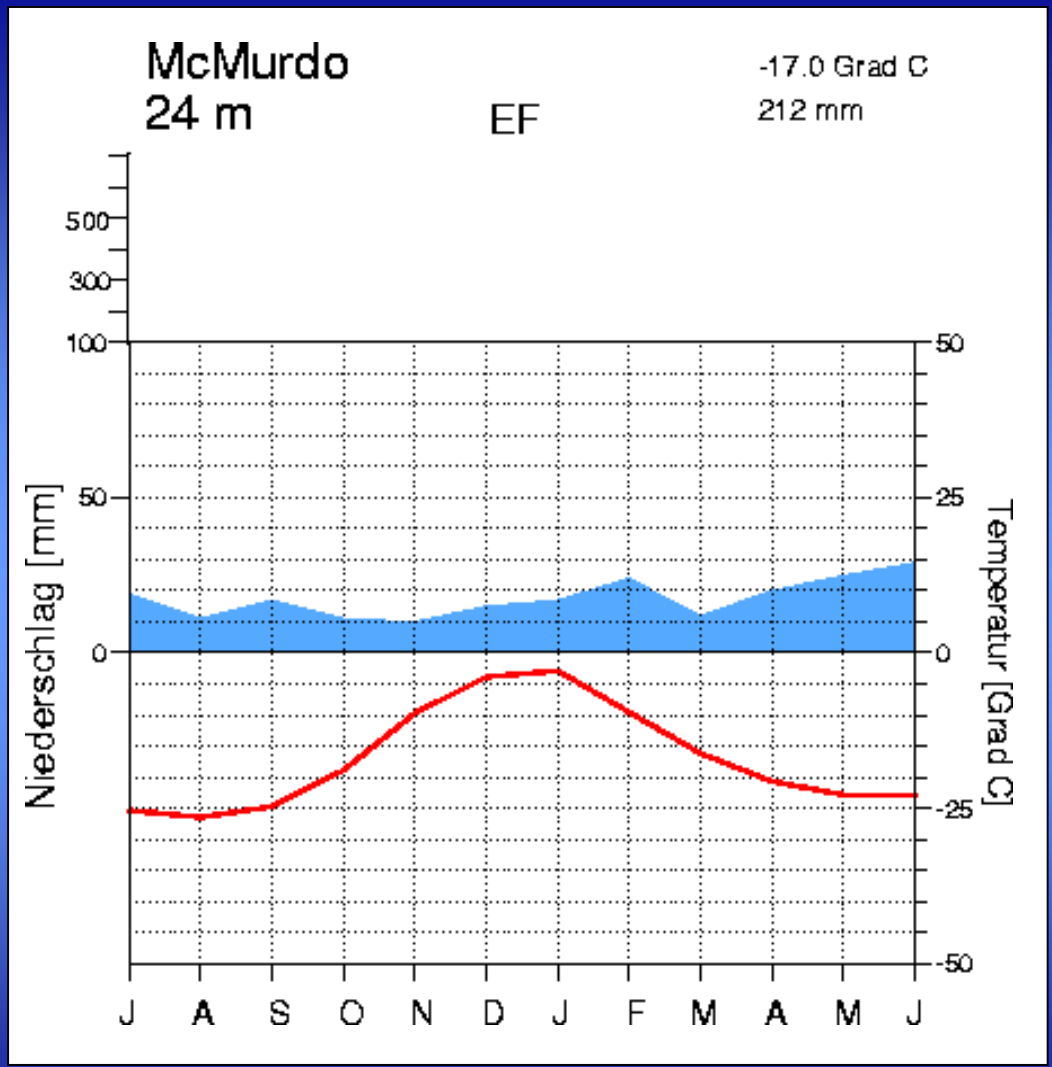
Heidelberg, 17. Juli 2007


Frankfurt
15.10.06, 22.25 Uhr
Singapur
16.10.06, An: 16.20 Uhr
Ab: 21.05 Uhr
Christchurch
17.10.06, 11.45 Uhr
19.10.06, 7.00 Uhr
Forschungsstation
McMurdo
19.10.06, 12.15 Uhr

Lage der Forschungsstation McMurdo

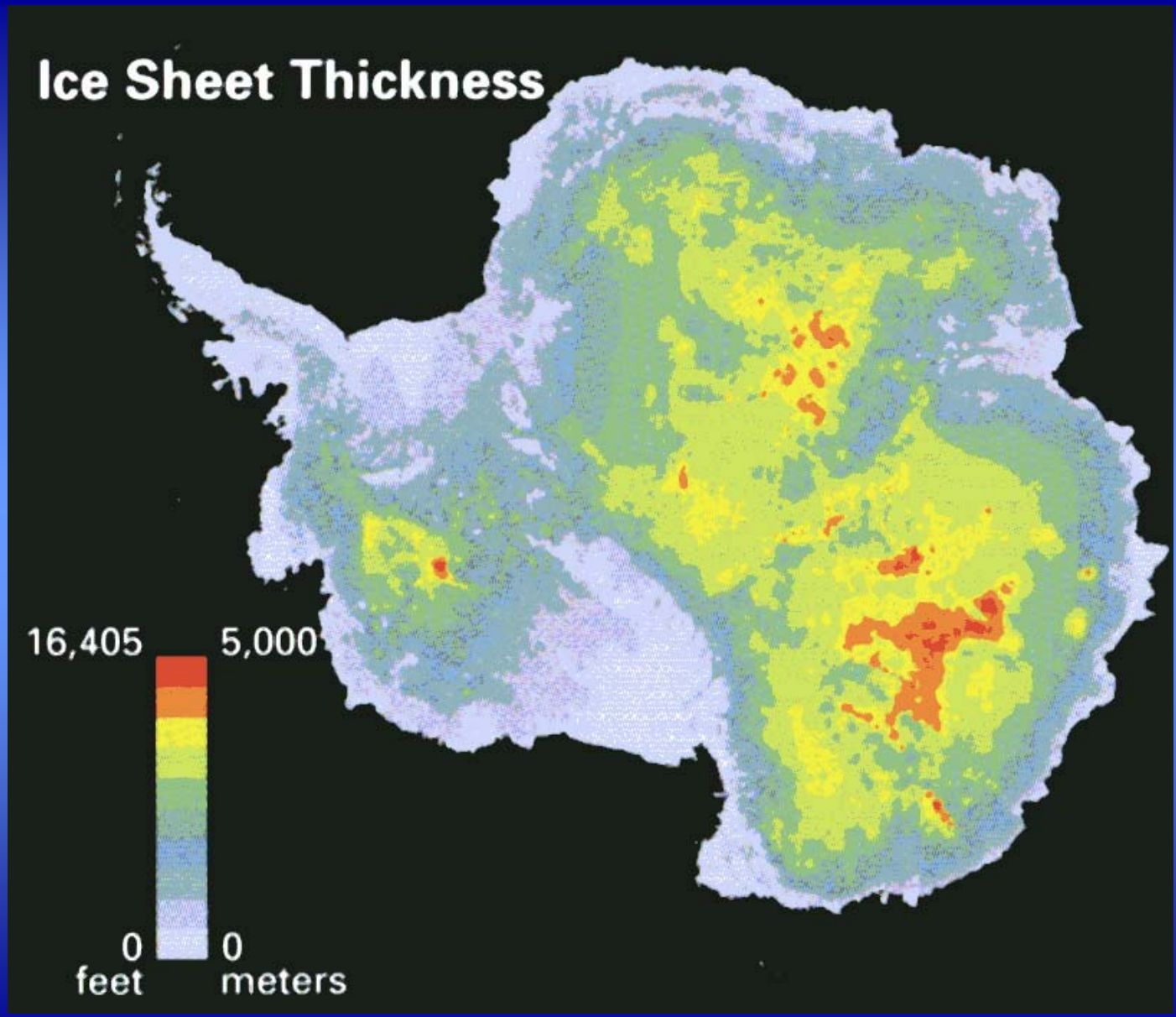
Quelle: D. McGonigal, 2004

Klimadiagramm der Station McMurdo



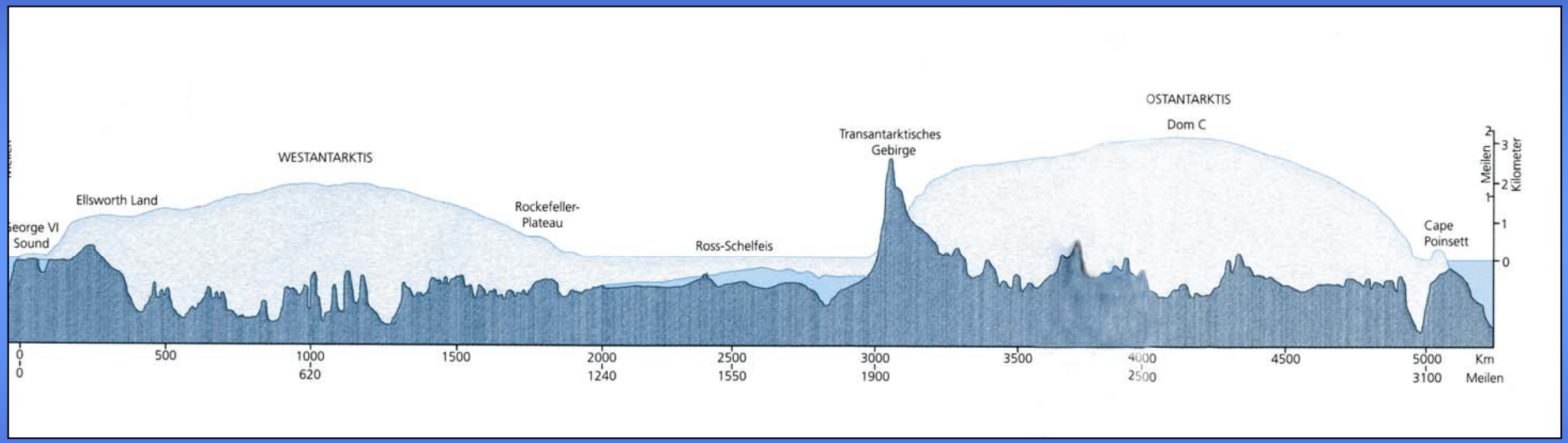
http://www.klimadiagramme.de/Australien/mcmurdo.html

McMurdo		
Monat	[mm]	[° C]
Jan	17	-2.9
Feb	24	-9.6
Mar	12	-16.2
Apr	20	-20.7
May	25	-22.9
Jun	29	-22.9
Jul	19	-25.4
Aug	11	-26.5
Sep	17	-24.8
Oct	11	-18.9
Nov	10	-9.7
Dec	15	-3.9
Year	212	-17.0



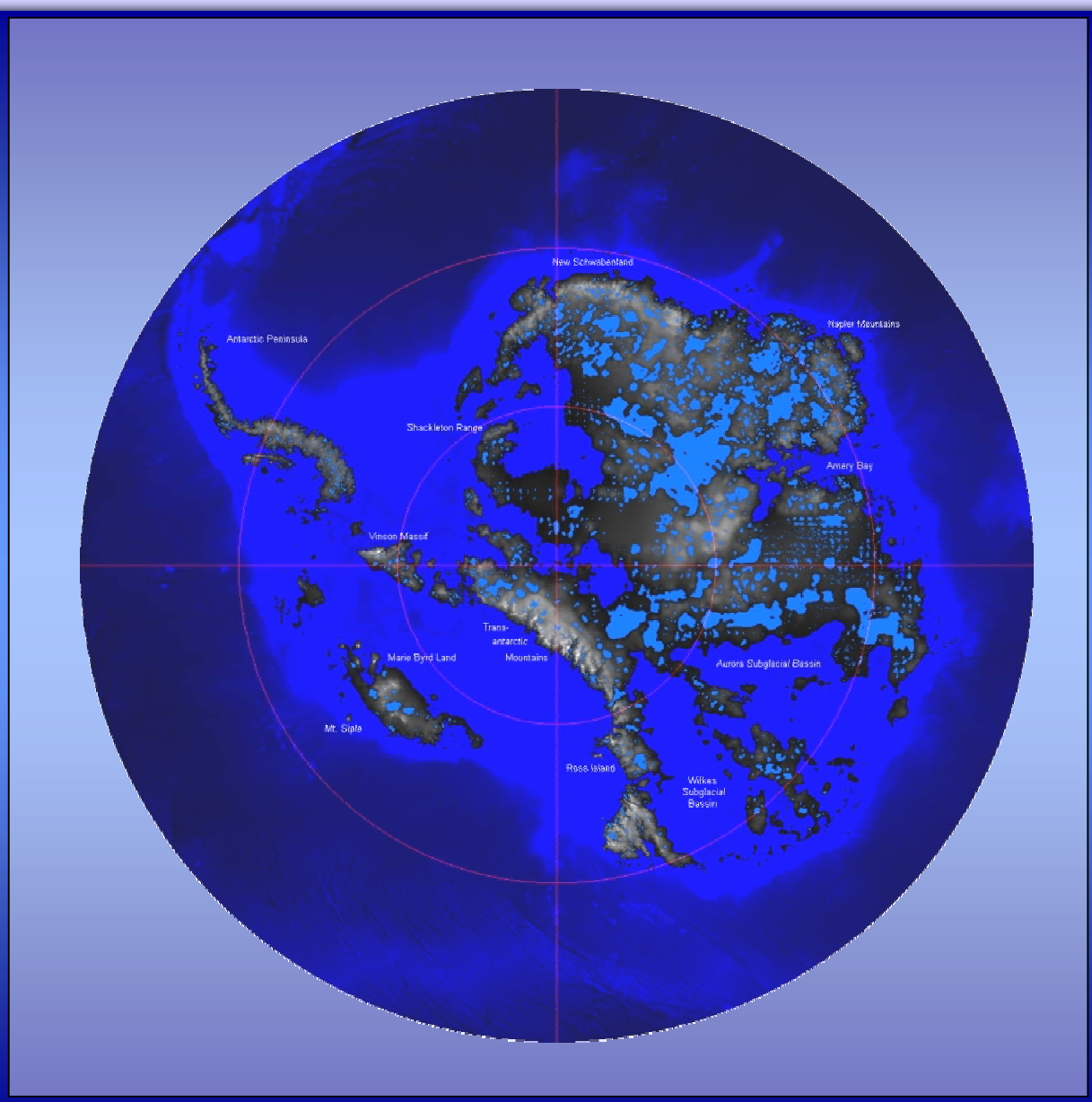
Quelle: National Geographic Society, 2002

Querprofil durch die Antarktis



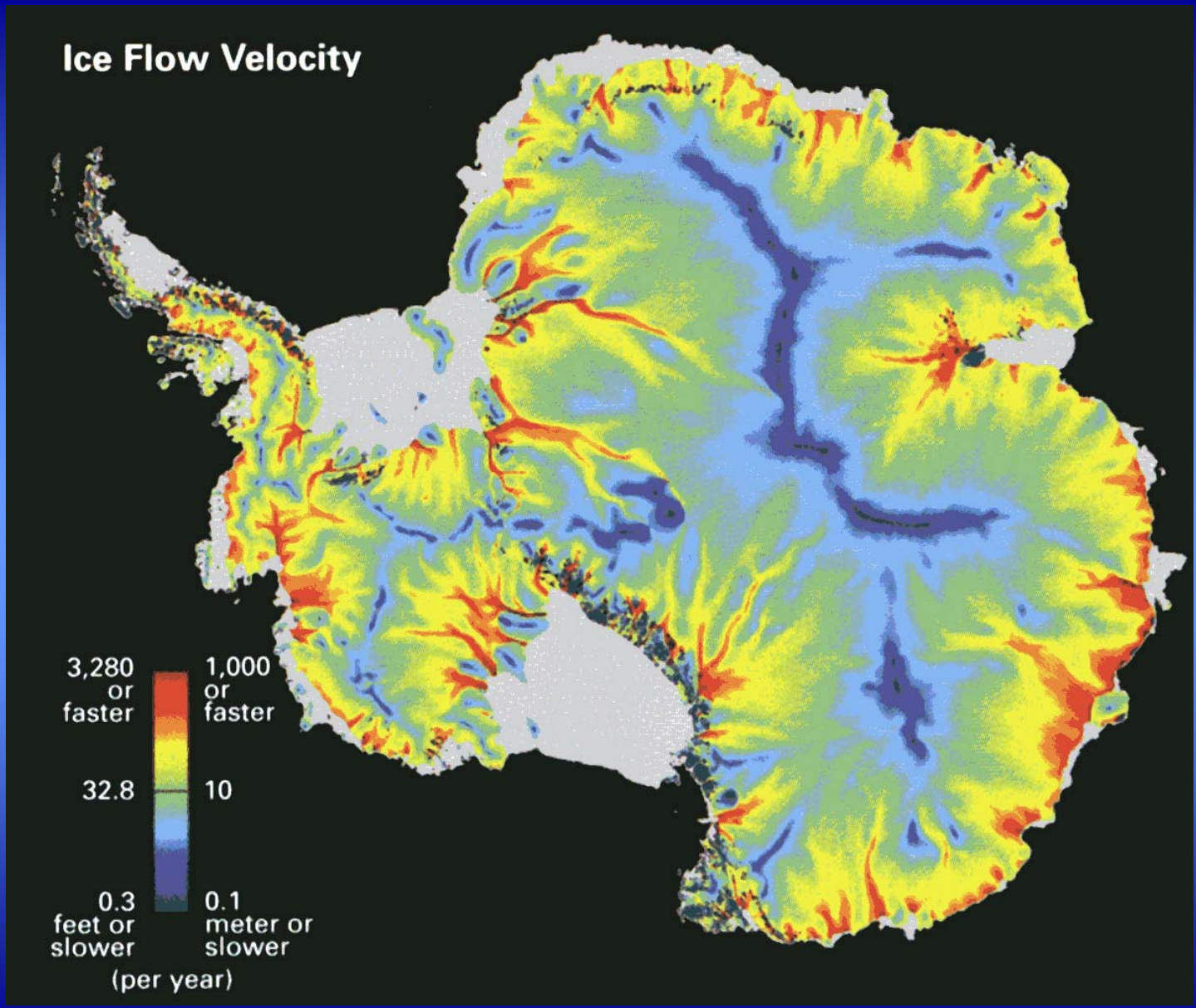
Quelle: D. McGonigal, 2004

Was wäre die Antarktis ohne Eis?

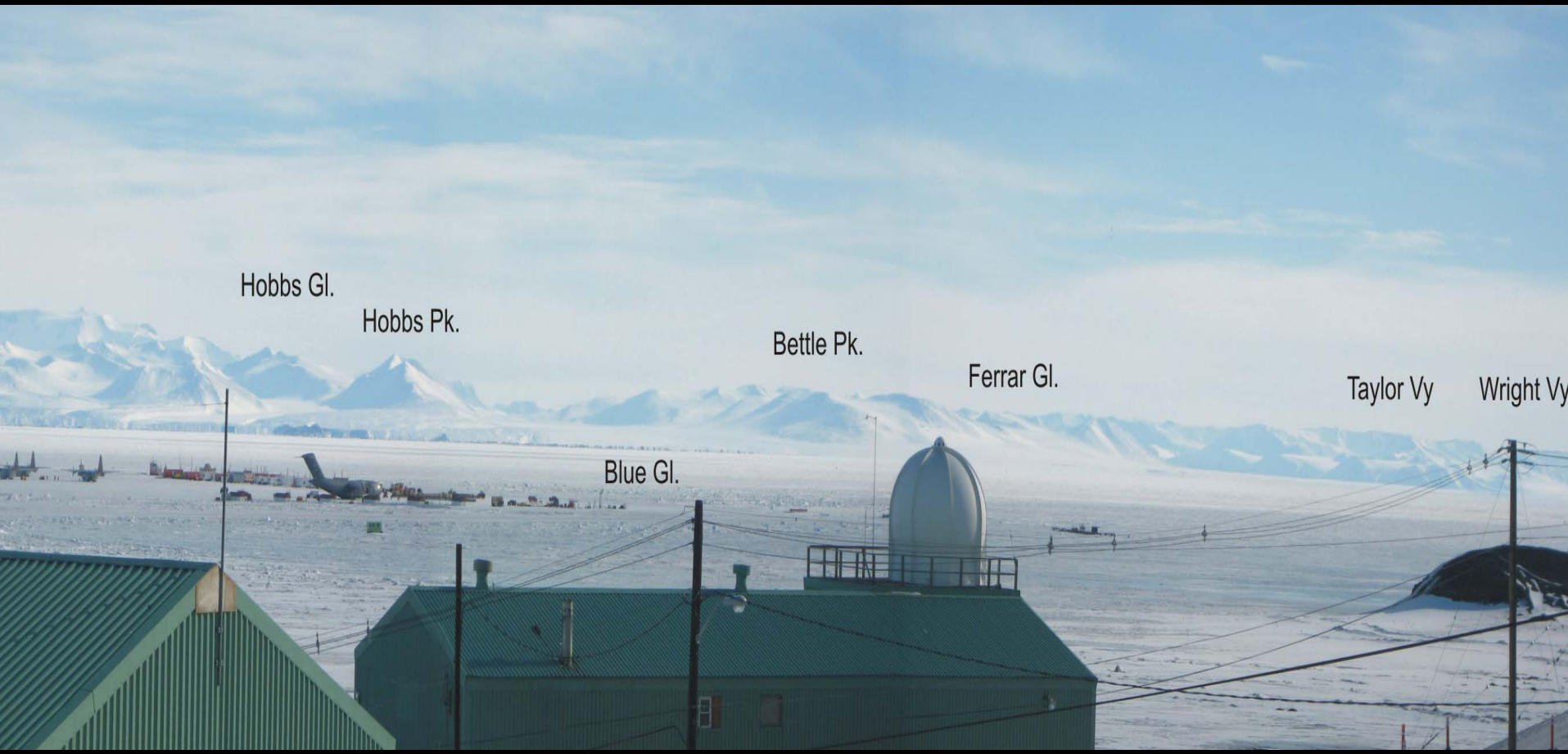


http://de.wikipedia.org/wiki/Bild:AntarcticaRockSurface.jpg

Alles im Fluss – vom Inlandeis zum Schelfeis ...



Quelle: National Geographic Society, 2002


Hobbs Gl.
Hobbs Pk.
Bettle Pk.
Ferrar Gl.
Taylor Vy
Wright Vy
Blue Gl.


McMURDO
F. D.
ANTARCTICA
NO. 1
SPILL RESPONSE
ANTARCTICA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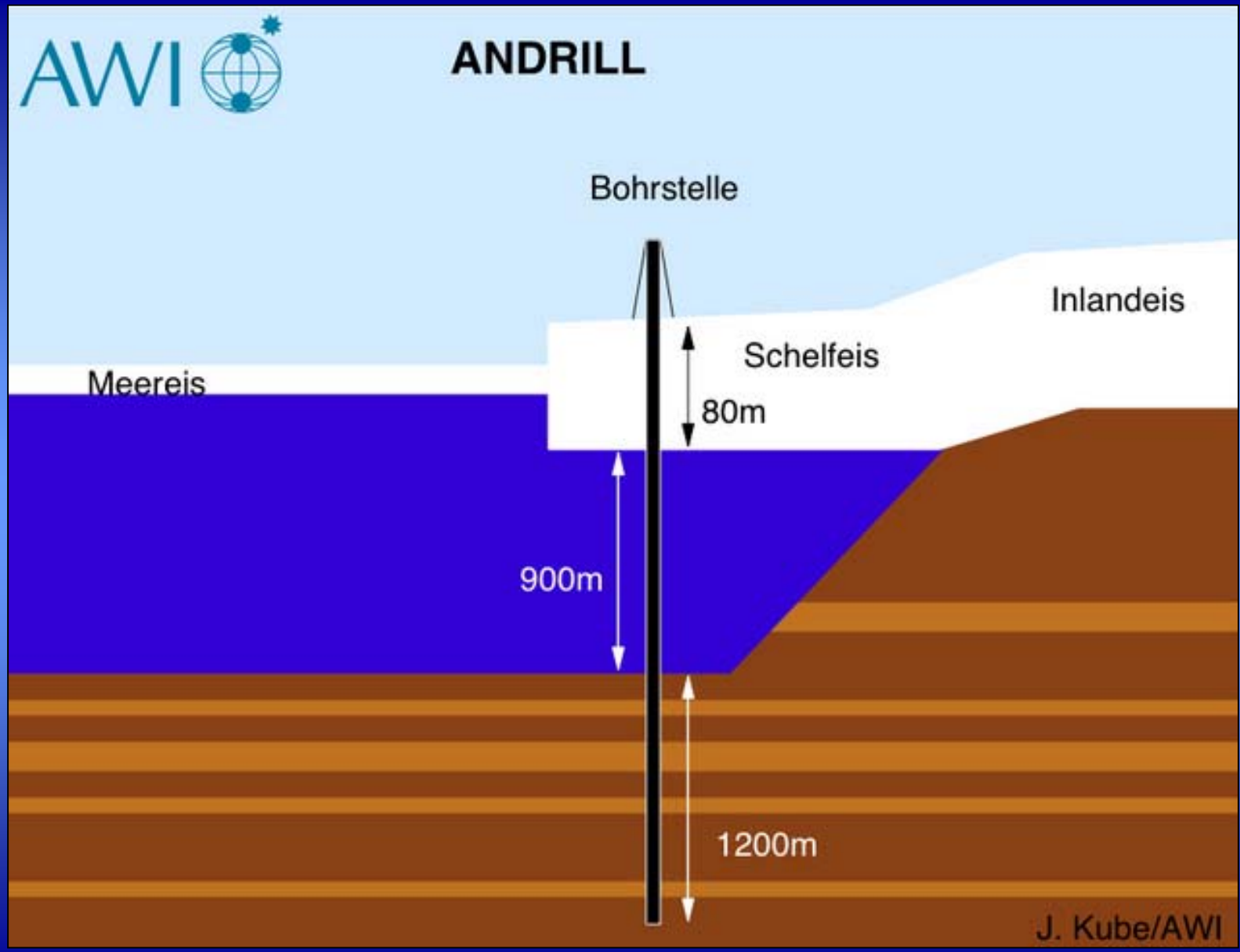
JVC

Die Bohrstelle des ANDRILL-Projekts – „bewegtes“ Eis

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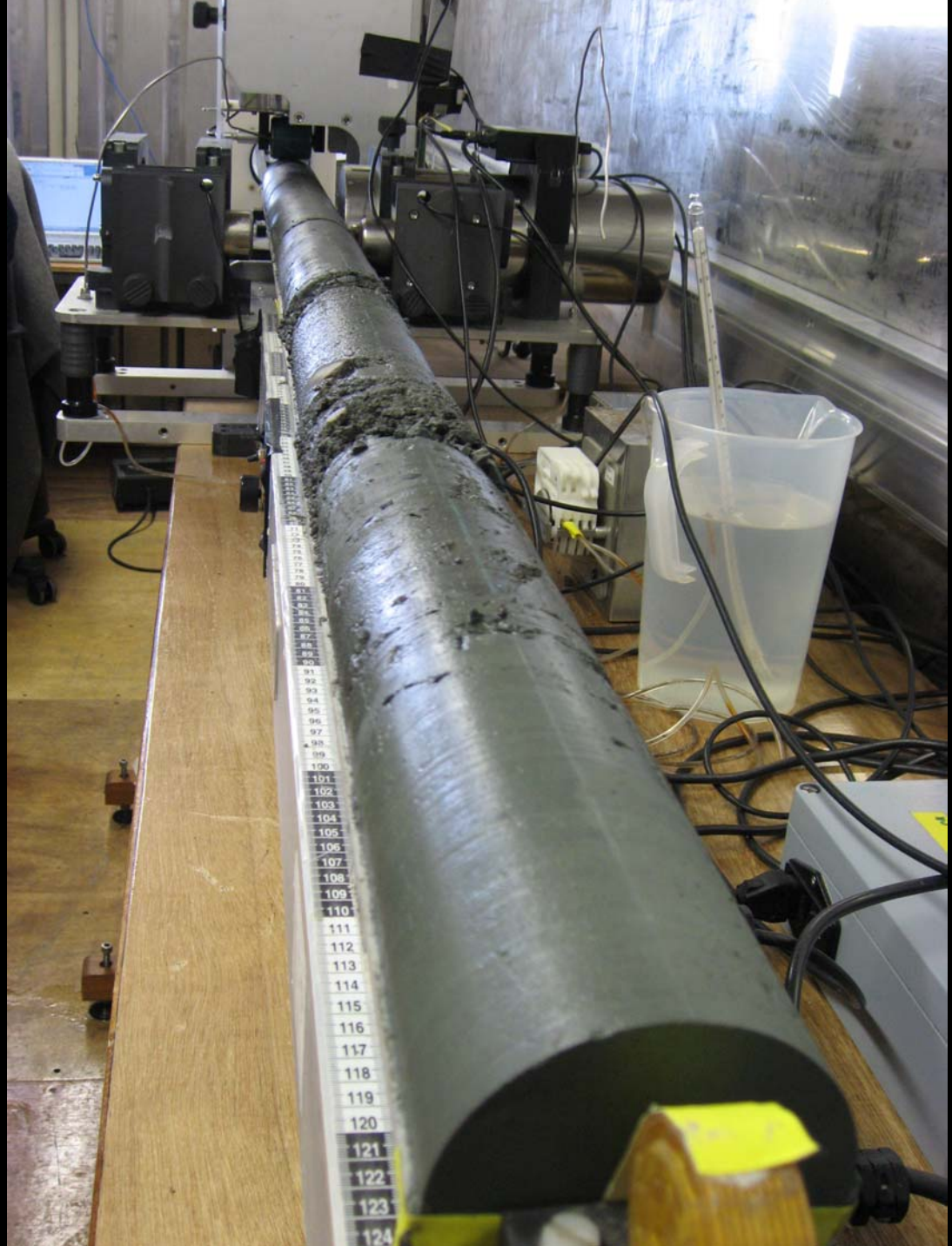
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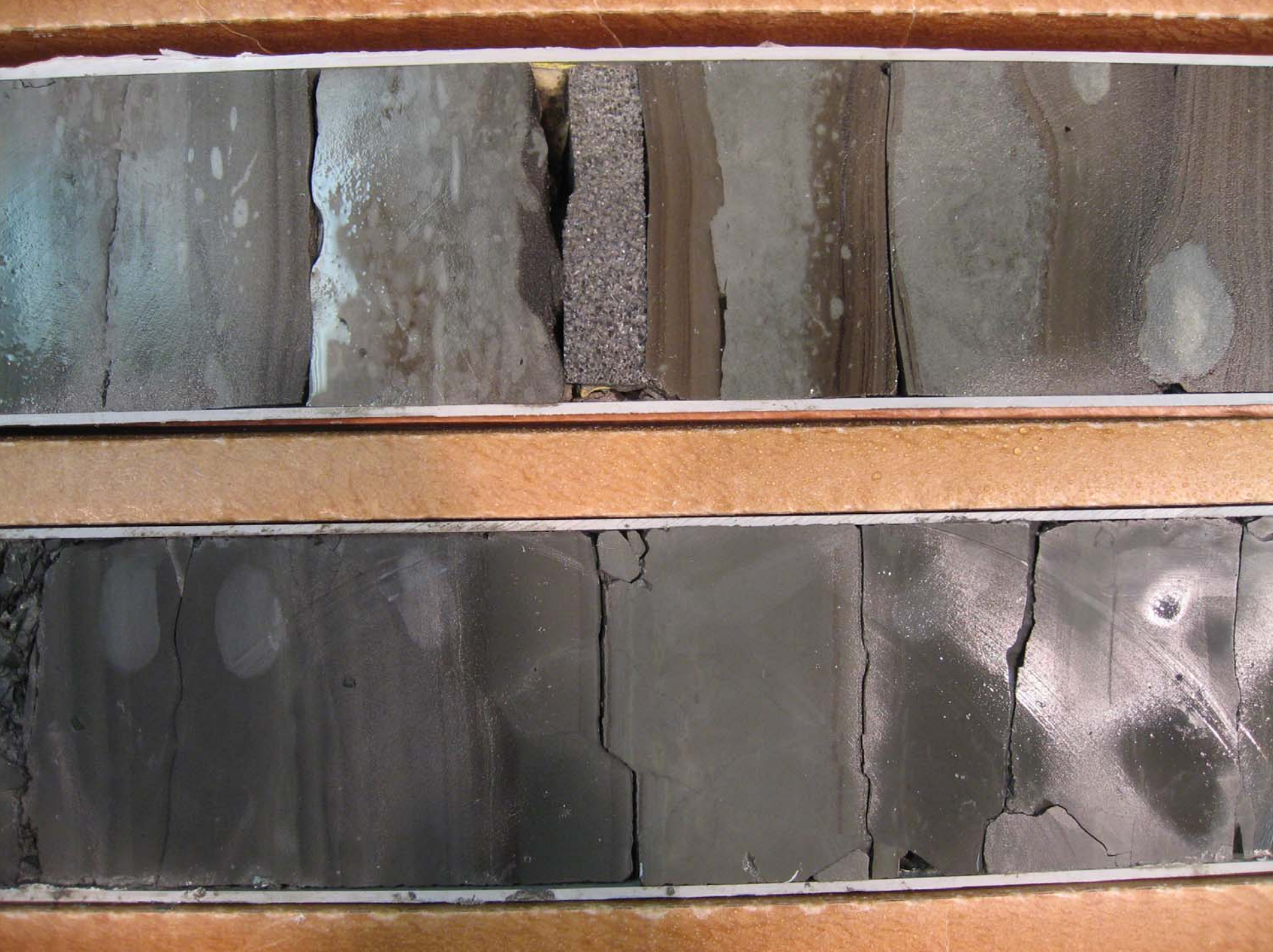
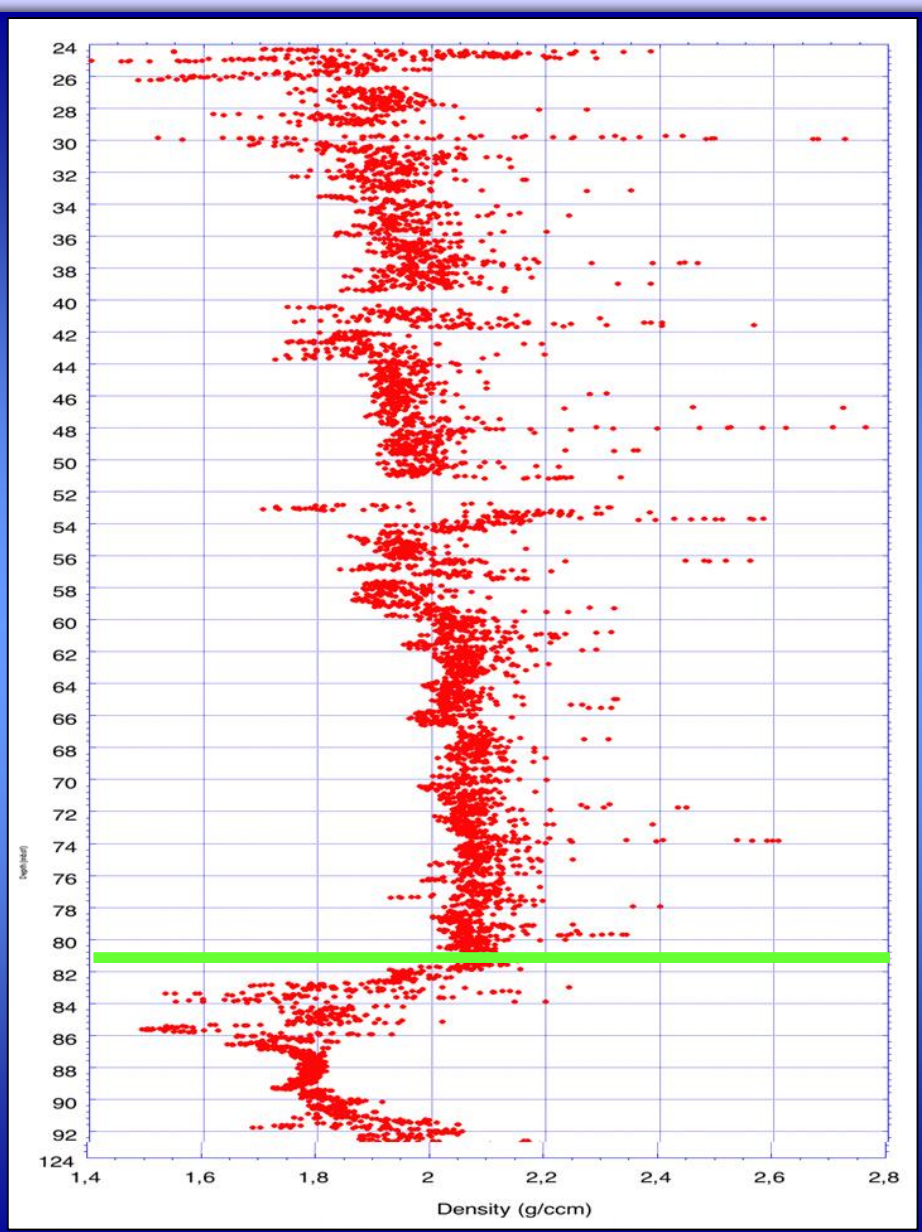
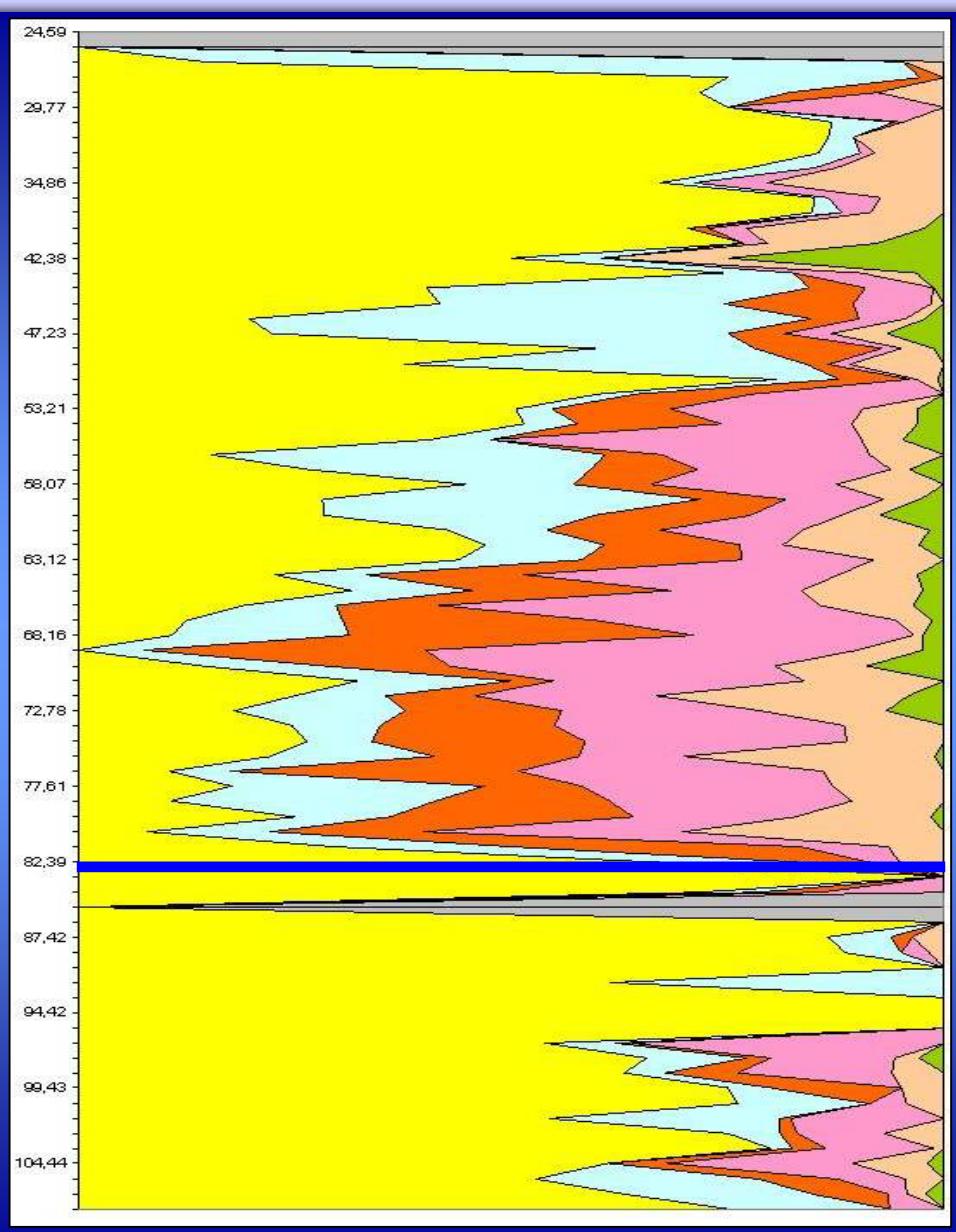
EARTH SCIENCES
MILLI-Q
WATER



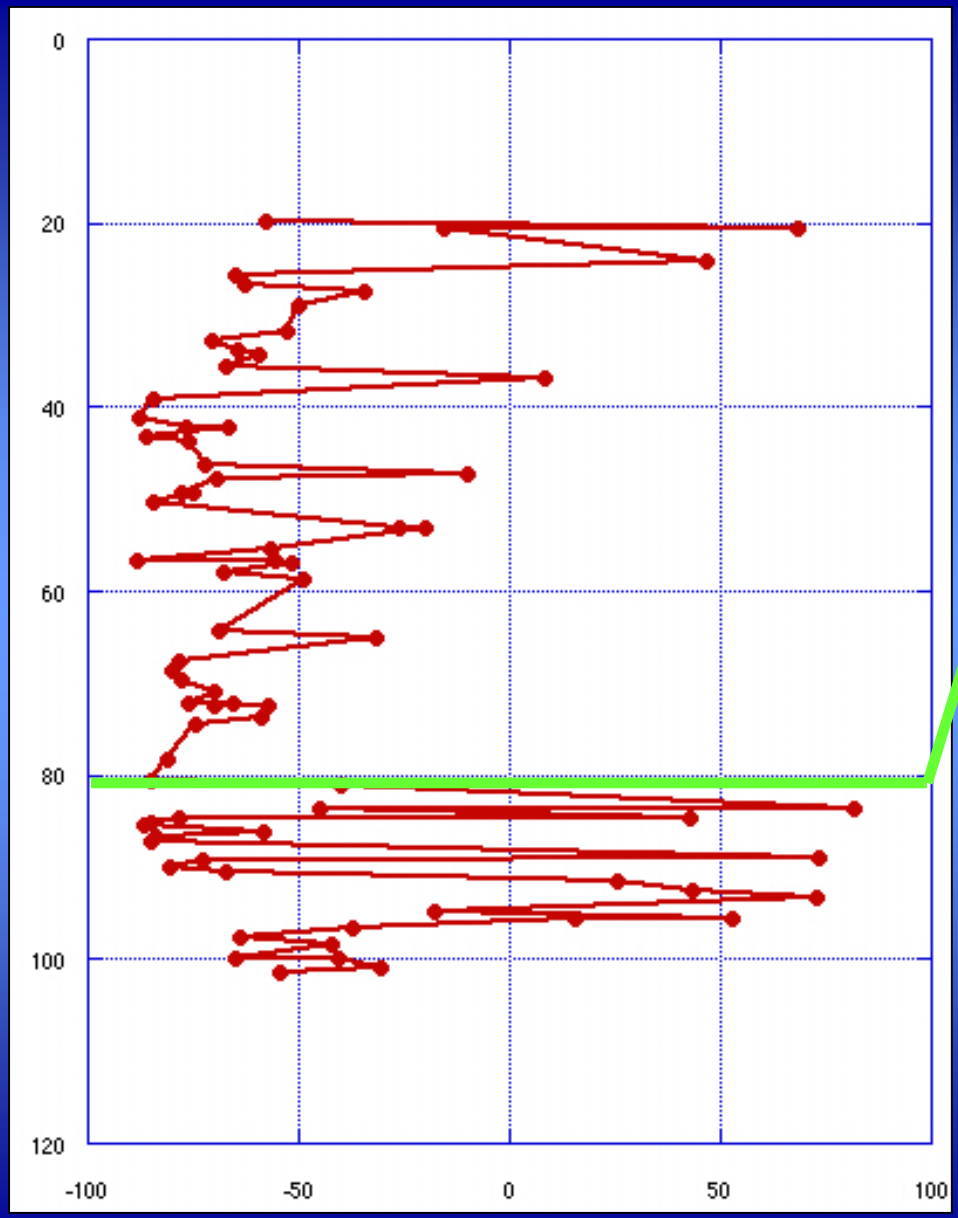
Gesteinsdichte im Bohrkern – ein Klimaarchiv

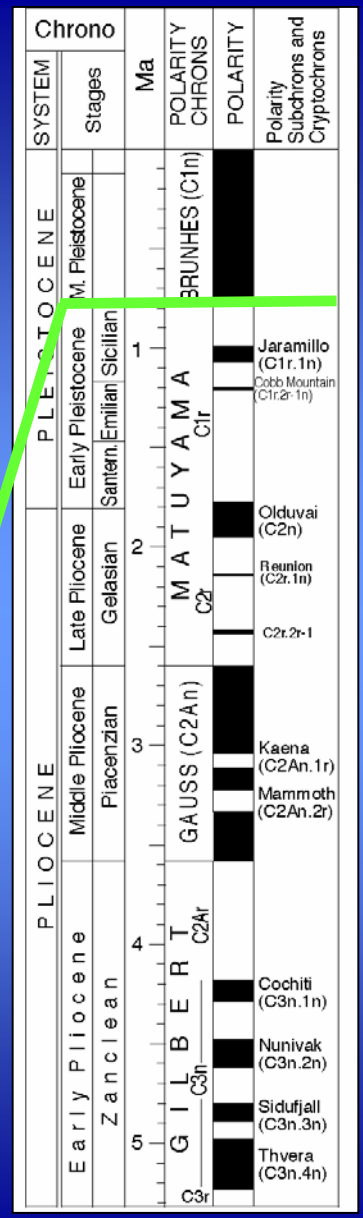


Gesteinseinschlüsse im Bohrkern – Zeugen der Gletscherströme

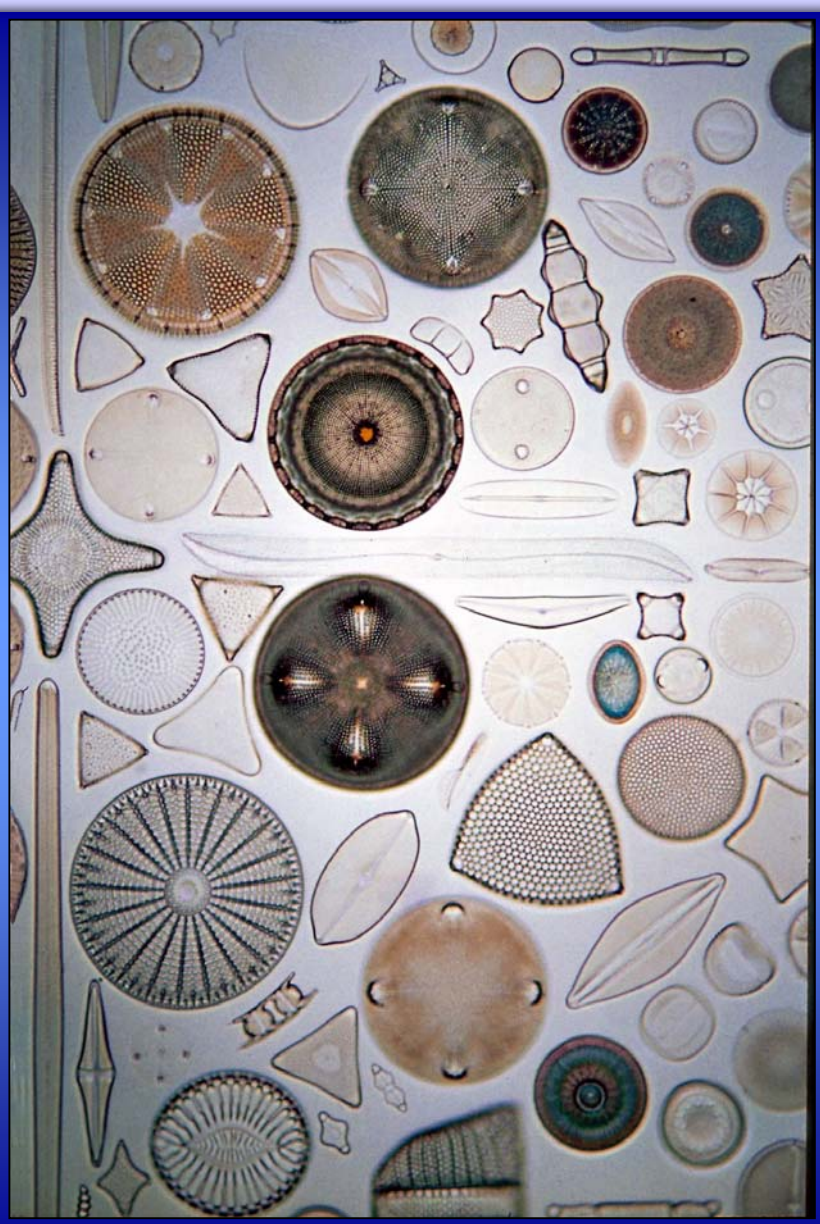


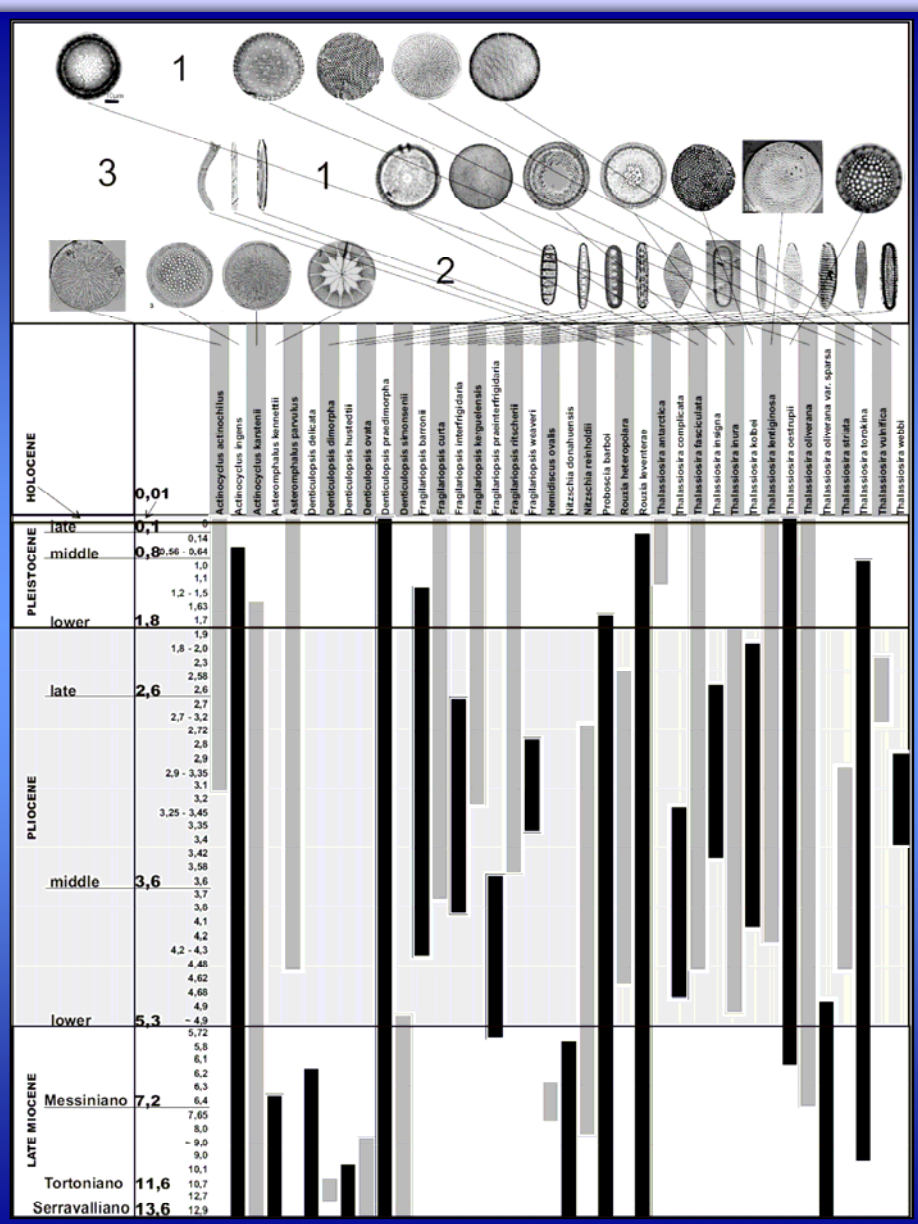
Magnetfeld der Erde – eine Altersskala



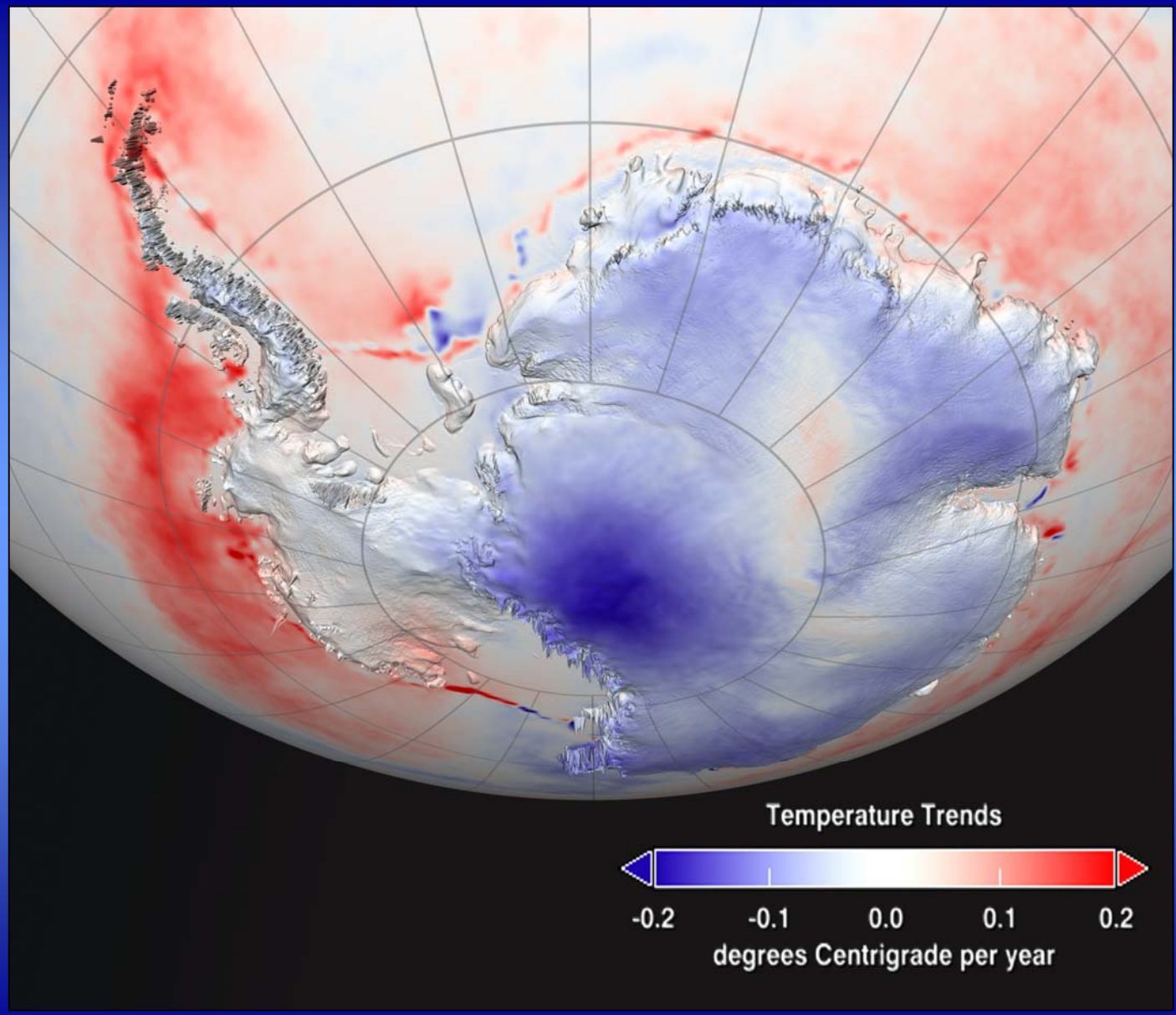


Diatomeen – Kieselalgen als Alters- und Klimaanzeiger



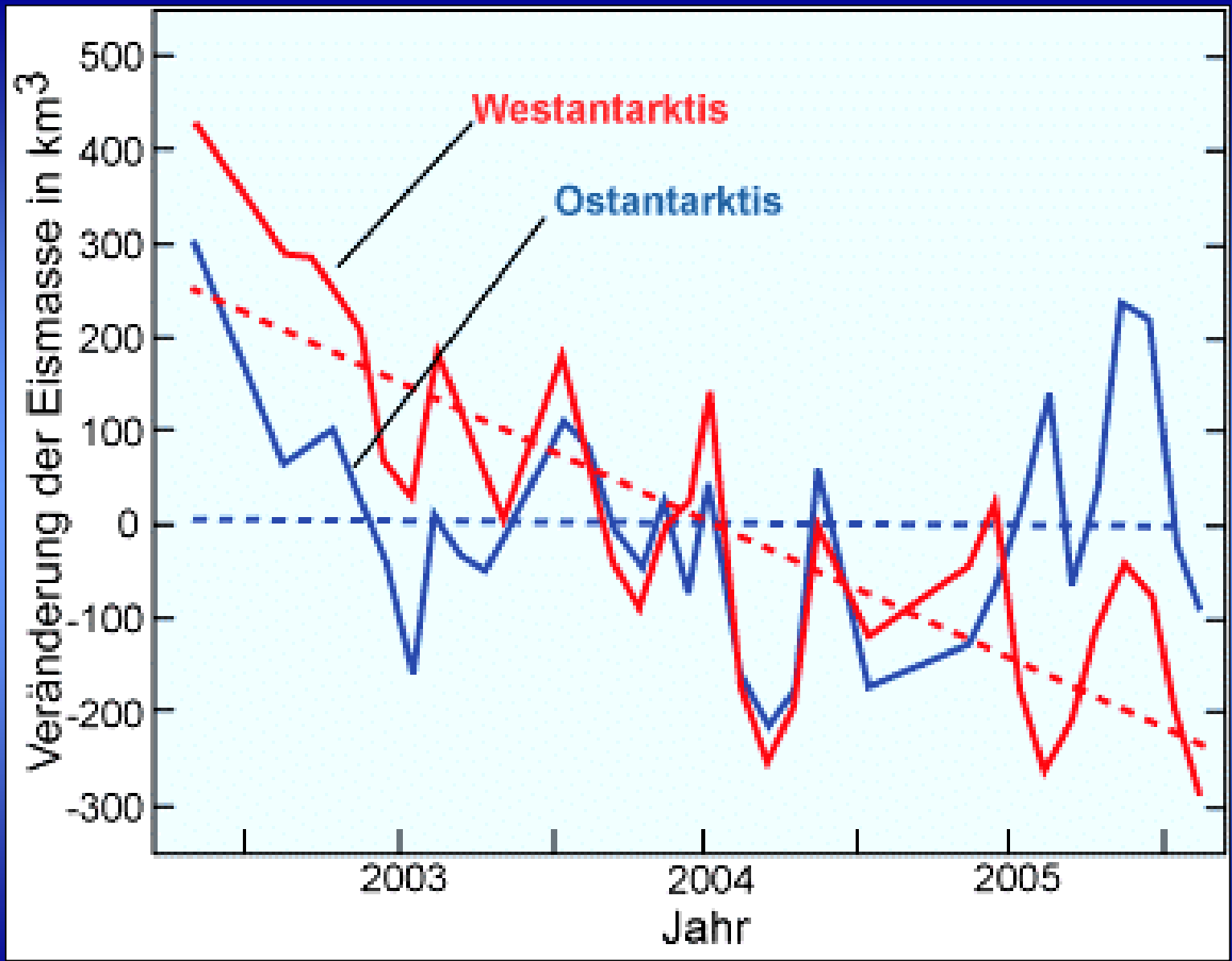


Klimatrends der Antarktis in den letzten 20 Jahren



http://svs.gsfc.nasa.gov/vis/a000000/a003100/a003188/aheat_printres.0005.tif

Veränderung der antarktischen Eismassen von 2002 bis 2006

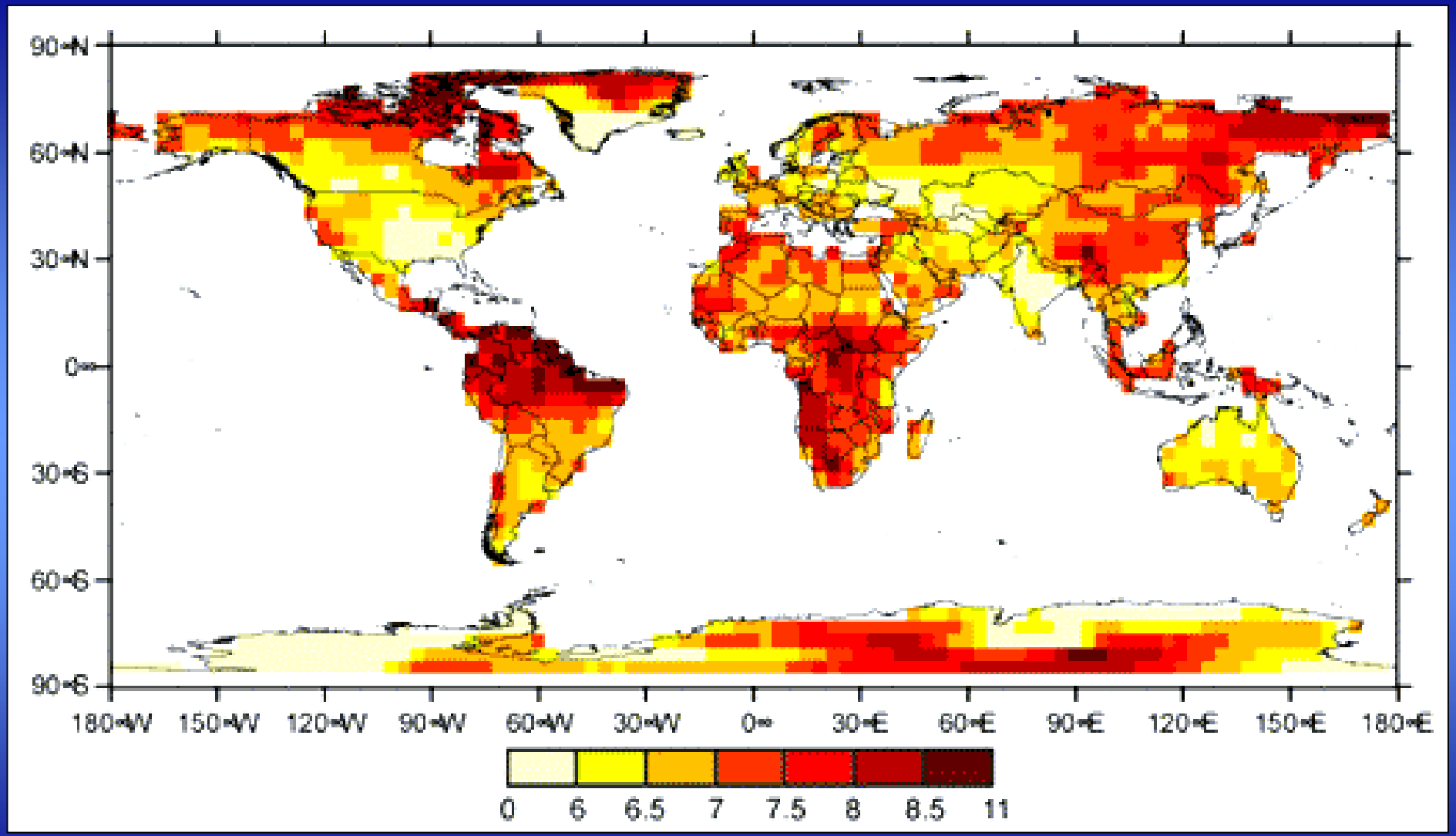


http://hamburger-bildungsserver.de/welcome.phtml?unten=/klima/klimafolgen/eis/antarktis.html

Schmelzen des Ross-Eisschelfs in den letzten 20.000 Jahren

http://svs.gsfc.nasa.gov/

Klima im Wandel – regionale Folgen globaler Prozesse



http://www.faz.net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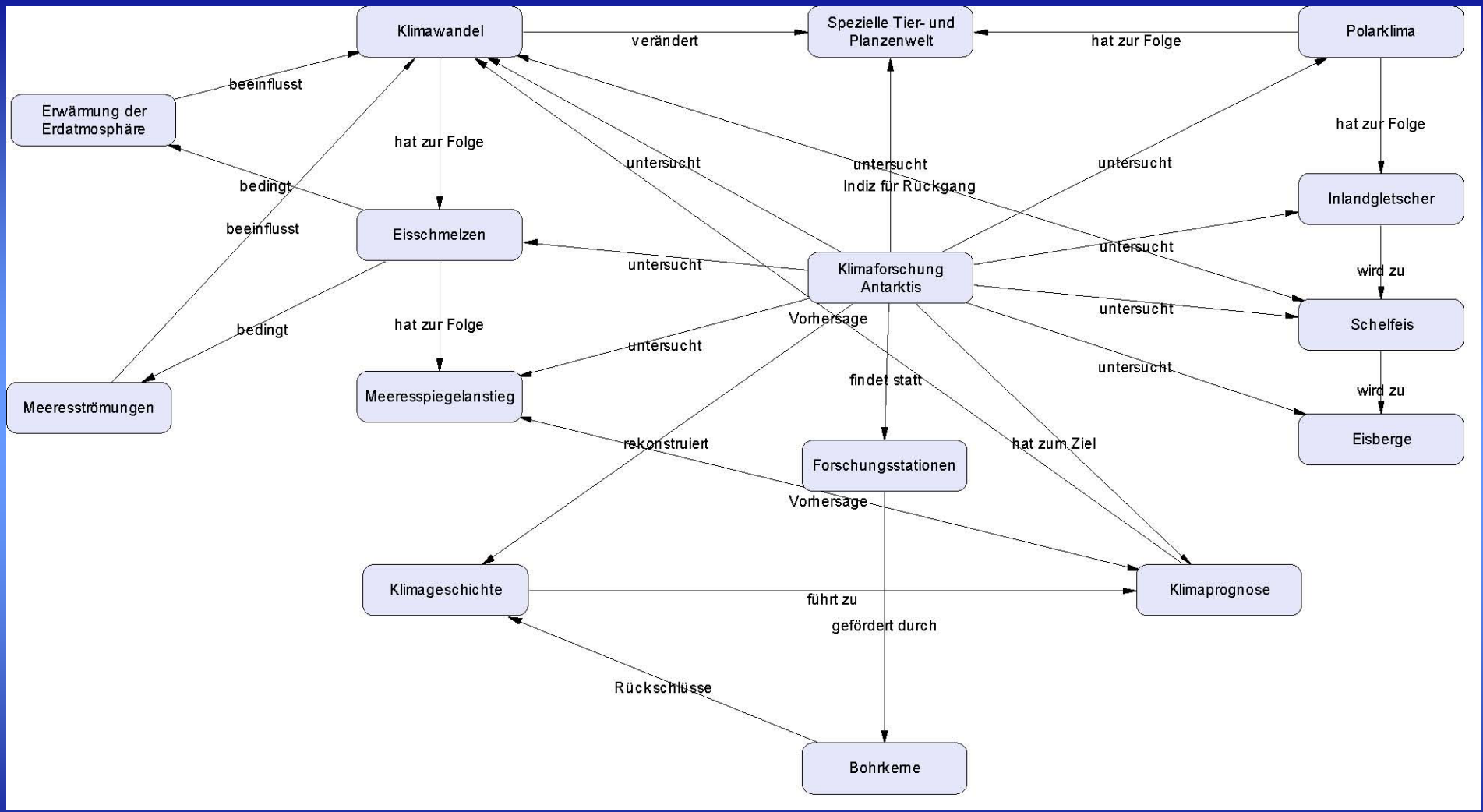
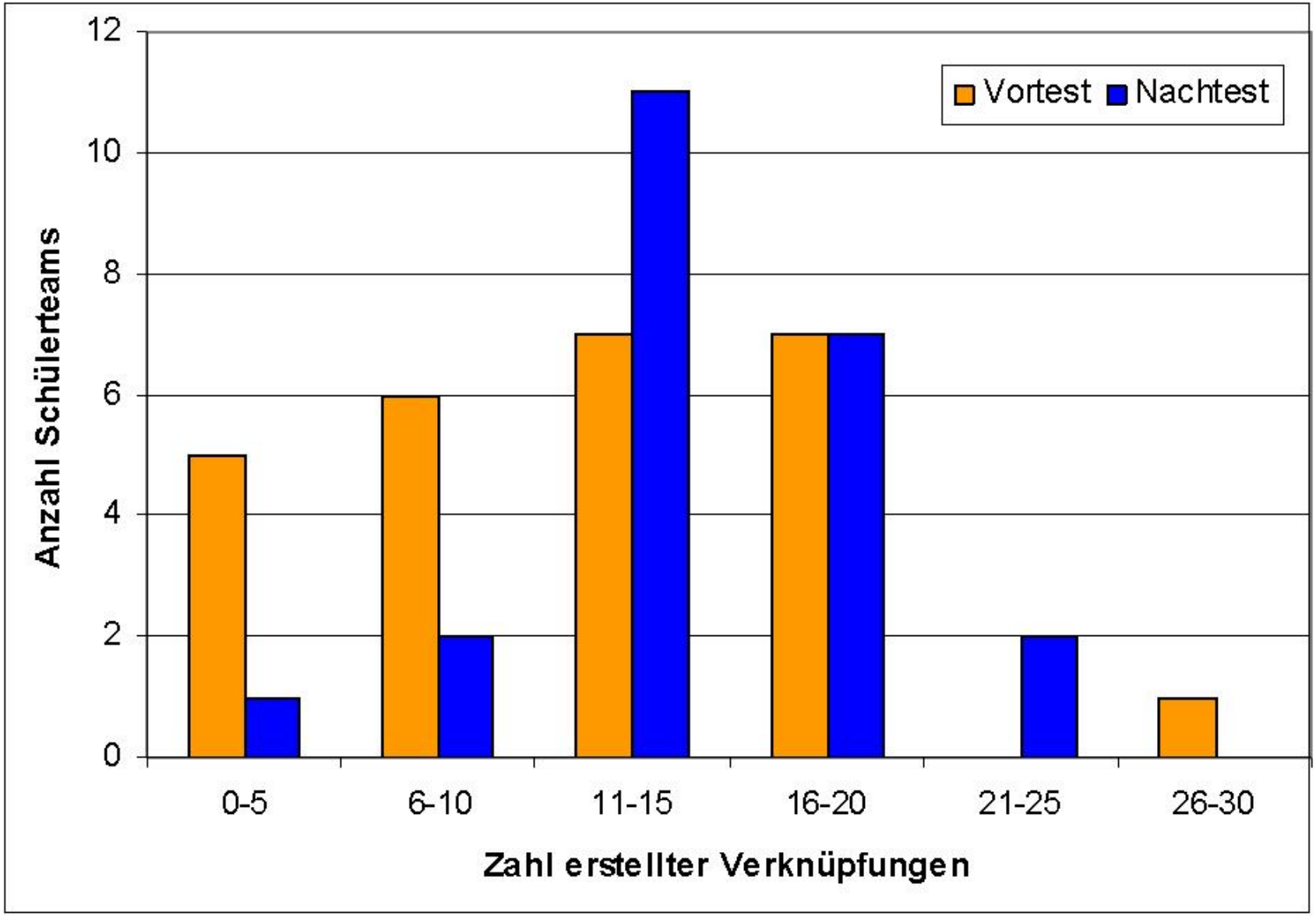
Sind Lernerfolge messbar? – Concept Maps zur Polarforschung



Vernetztes Denken – ein sichtbarer Lernerfolg



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... ich habe fertig – VIELEN DANK!!!

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