Melting of Northern Greenland during the last interglacial

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New approach to simulate past Greenland ice sheet

IPCC 2007 (Otto-Bliesner et al., Science, 2006)

Scaled modern precipitation and temperature as forcing
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Scaled modern precipitation and temperature as forcing

This study (Born and Nisancioglu, Climate of the Past, 2012)

Simulated Eemian precipitation and temperature as forcing

ISPL CM4 - JJA SAT (Braconnot et al., 2008)

SICOPOLIS - ice thickness (Greve, 1997)
Surface height changes

Preindustrial

Eemian: +4.2m sea level

NEEM: -255m

GRIP: -466m
Contributions from Greenland to sea level

Robinson et al. (CP, 2011)
Greve (Ann. Glac., 2005)
Fyke et al., (GMD, 2011)
Stone et al. (CPD, 2012)
Quiquet et al. (CPD, 2012)*
Otto Bliesner et al., (Science, 2006)
Born & Nisancioglu (CP, 2012)
Lhomme et al., (QSR, 2005)
Tarasov & Peltier (JGR, 2003)
Cuffey & Marshall (Nature, 2000)
Huybrechts (QSR, 2002)

Kopp et al. (Science, 2009)
Dahl-Jensen et al. (Nature, 2013)

(meters of sea level equivalent)
