



Can the thermal bipolar seesaw be used to improve estimates of delta-age in Antarctic ice cores?

M. Siddall (1), T.F. Stocker (1), T. Blunier (1), R. Spahni (1)

(1) Climate and Environmental Physics, University of Bern, Bern, Switzerland.

An inverted version of the thermal bipolar seesaw model may be used to estimate high-latitude N.Hemisphere temperatures during glacial periods previous to the last glacial period. We demonstrate this for MIS 8 by forcing the inverted thermal-bipolar seesaw model with measurements of Antarctic deuterium. We (very) tentatively suggest that these calculations may be used to place better constraints on the ice age - gas age difference in low-accumulation rate Antarctic ice cores by comparison of the modelled high-latitude N.Hemisphere temperature with the Antarctic methane record.