

Sensitivity of isotopes in the hydrological cycle to simulated vs. reconstructed Last Glacial Maximum surface conditions

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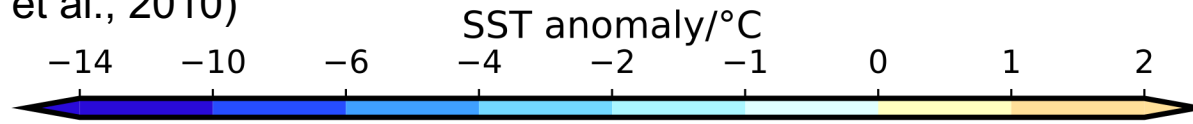
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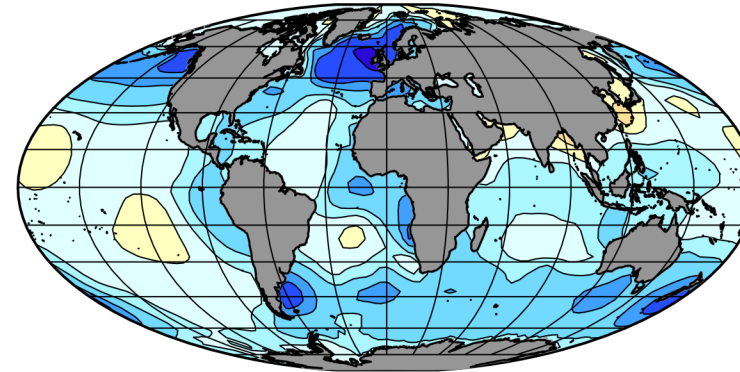
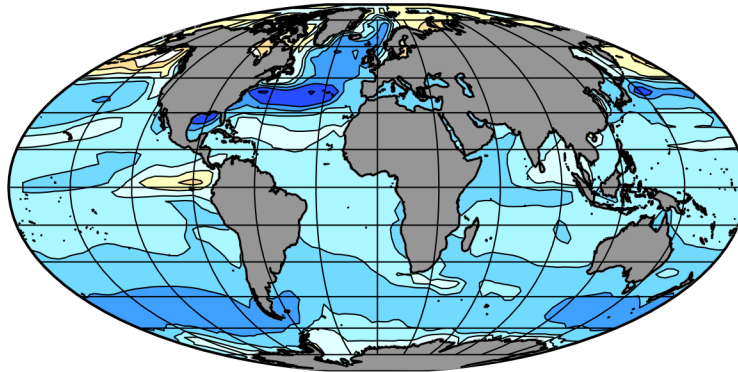
Simulated surface conditions
derived from CCSM3 (Merkel et al., 2010)
larger global cooling
more zonal structure

GLOMAP reconstructed surface conditions
based on MARGO (2009)
stronger polar cooling
large zonal gradients



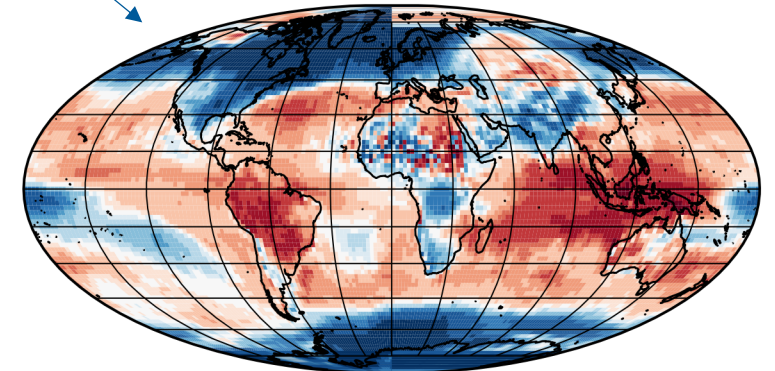
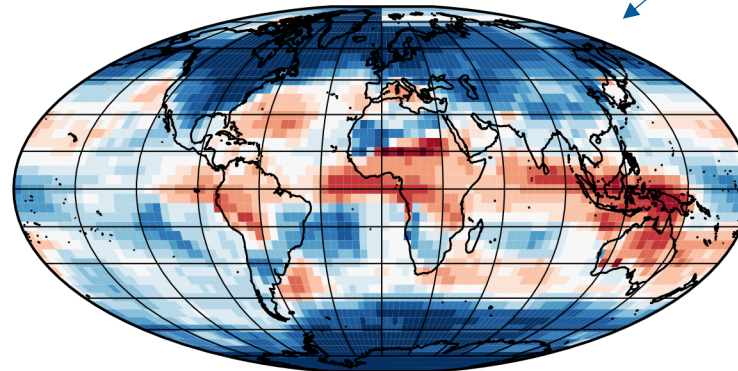
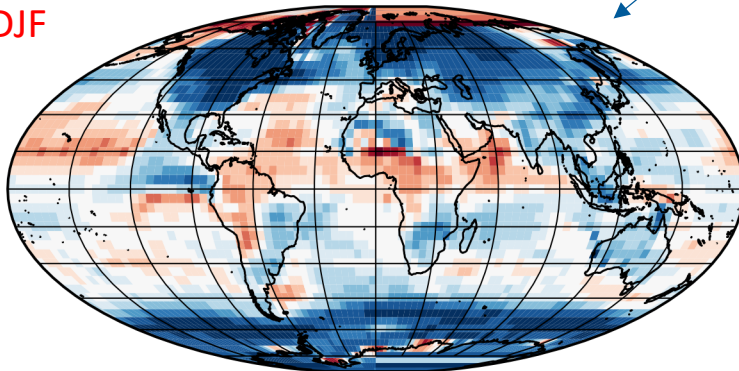
February

anomaly
= LGM – pre-industrial



$\delta^{18}\text{O}$ in precipitation anomaly

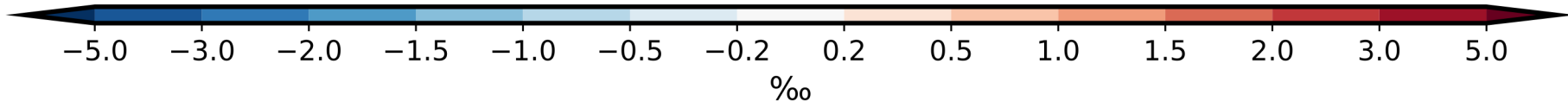
DJF



iCAM3

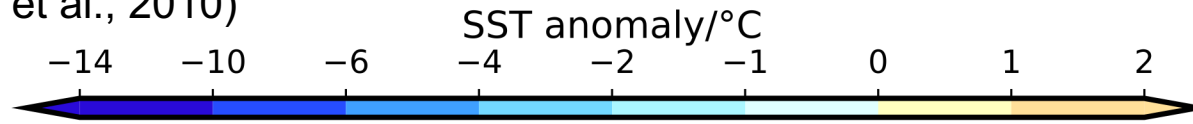
iCAM3

ECHAM6-wiso



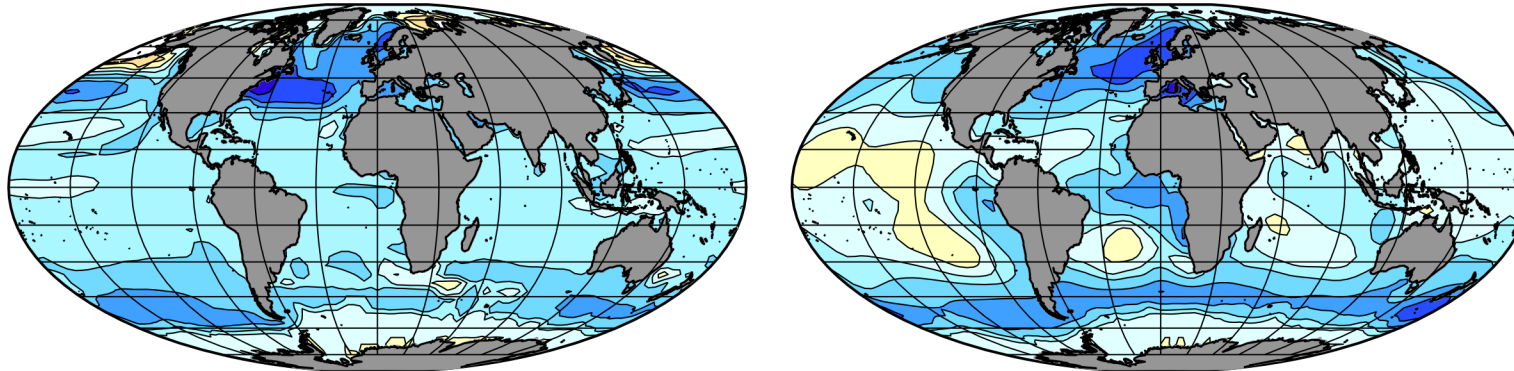
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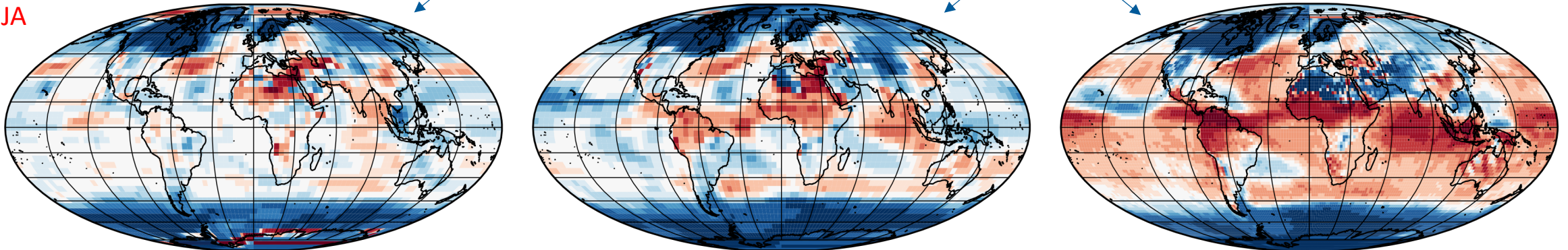
August

anomaly
= LGM – pre-industrial



JJA

$\delta^{18}\text{O}$ in precipitation anomaly



iCAM3

iCAM3

ECHAM6-wiso

