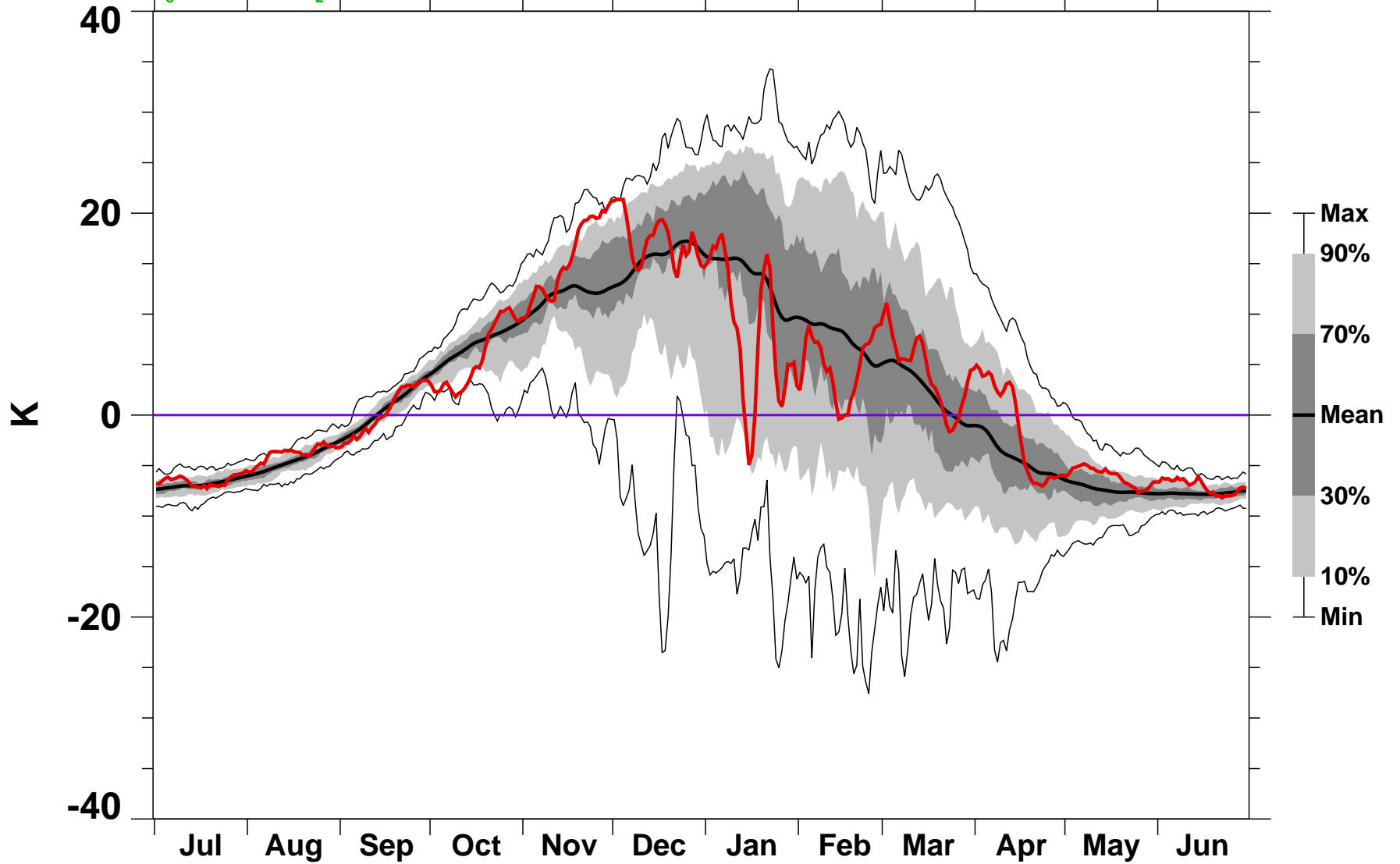


50-80°N Zonal Mean Temperature Gradient

30 hPa MERRA2

$\text{HNO}_3 = 6 \text{ ppbv}$, $\text{H}_2\text{O} = 4.5 \text{ ppmv}$



1978/1979–2022/2023

2011/2012

P. Newman (NASA), L. Lait (SSAI), S. Pawson (NASA)

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