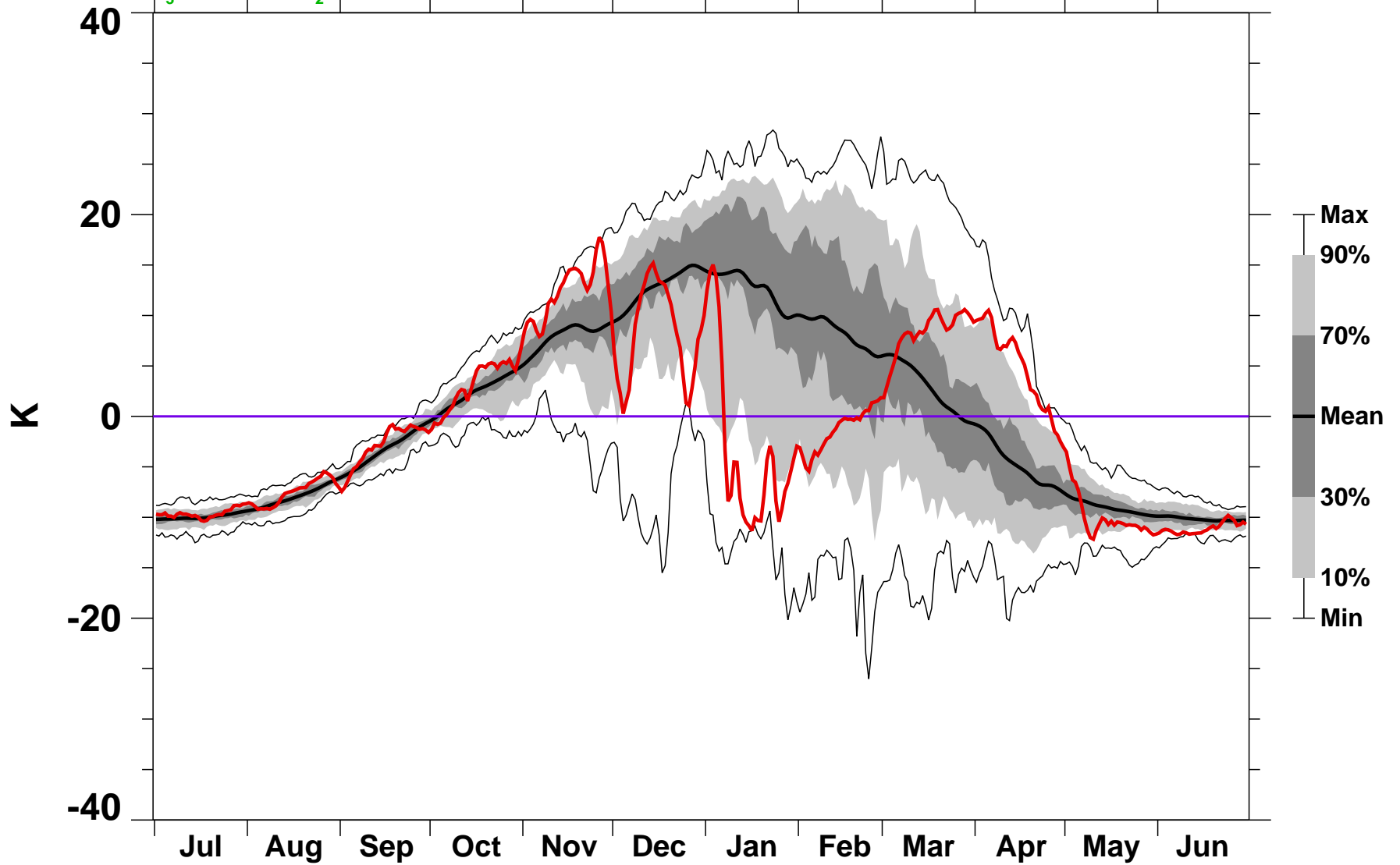


# 50-80°N Zonal Mean Temperature Gradient

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

50 hPa MERRA2



1978/1979–2022/2023

2012/2013

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

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