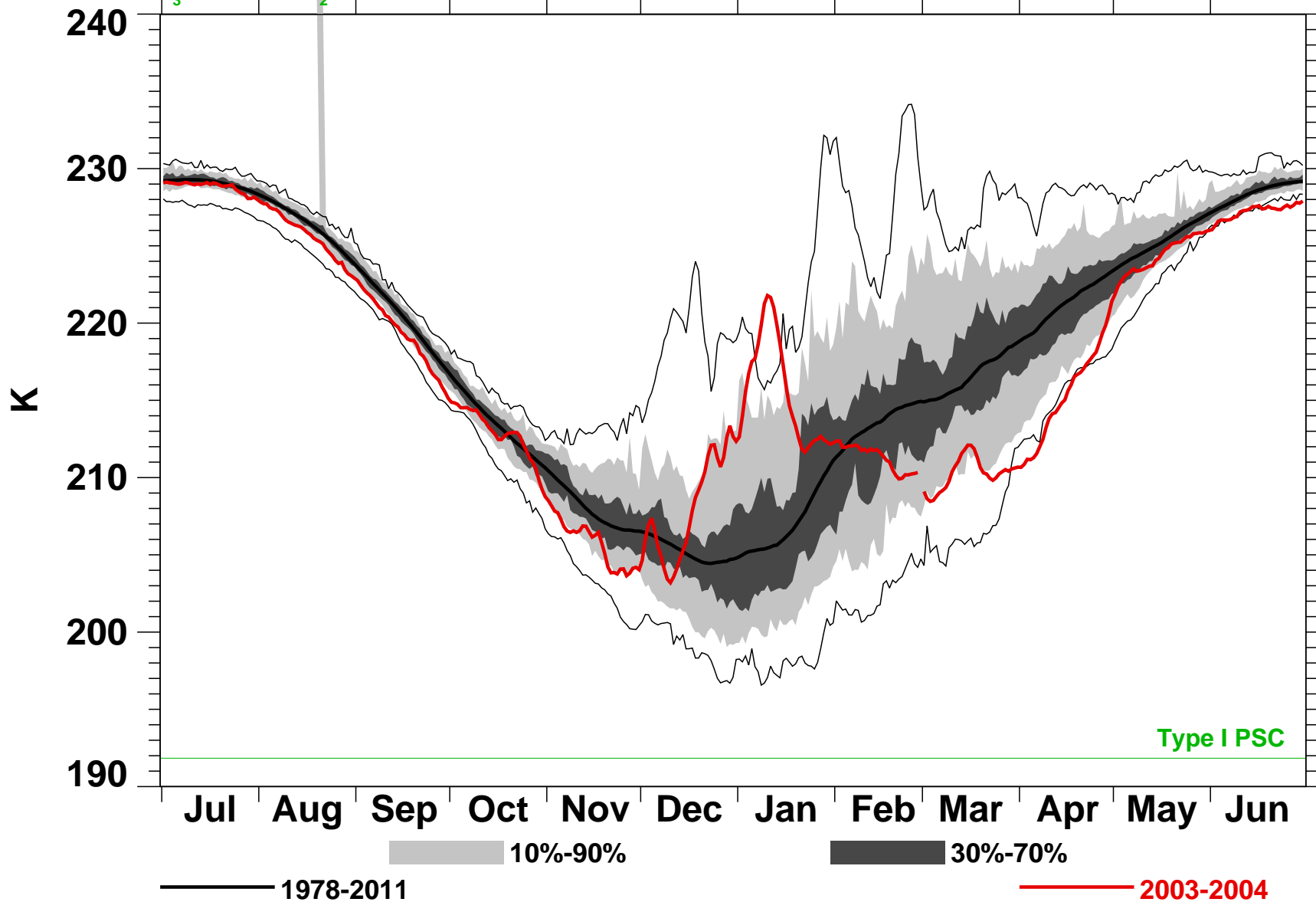


# 60-90°N Zonal Mean Temperature 30 hPa

$\text{HNO}_3 = 6 \text{ ppbv}$ ,  $\text{H}_2\text{O} = 4 \text{ ppmv}$



Type I PSC

1978-2011

2003-2004

P. Newman (NASA), E. Nash (SSAI), C. Long (NOAA)