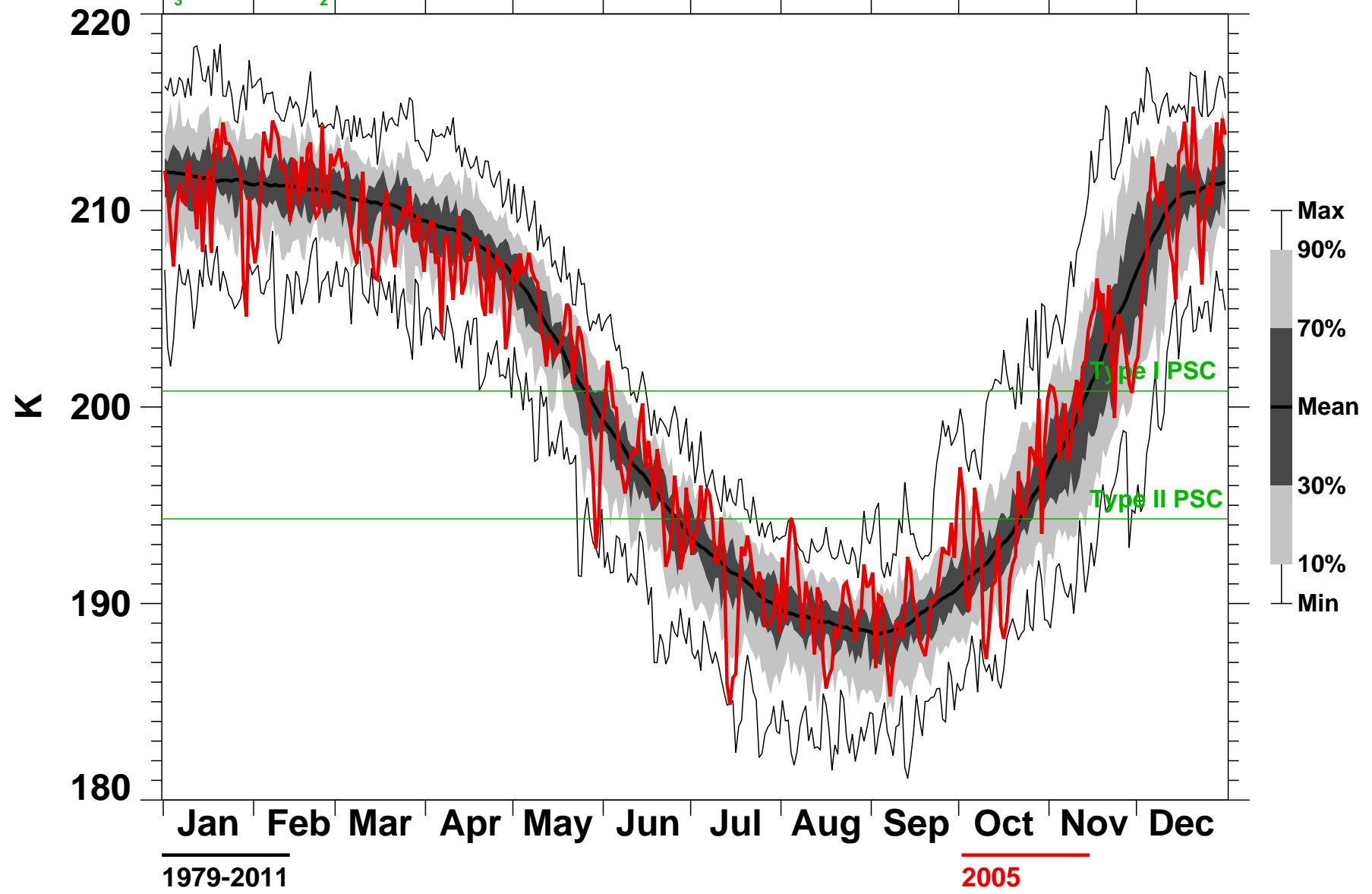


50-90°S Minimum Temperature 150 hPa MERRA

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



1979-2011

2005

P. Newman (NASA), E. Nash (SSAI), S. Pawson (NASA)