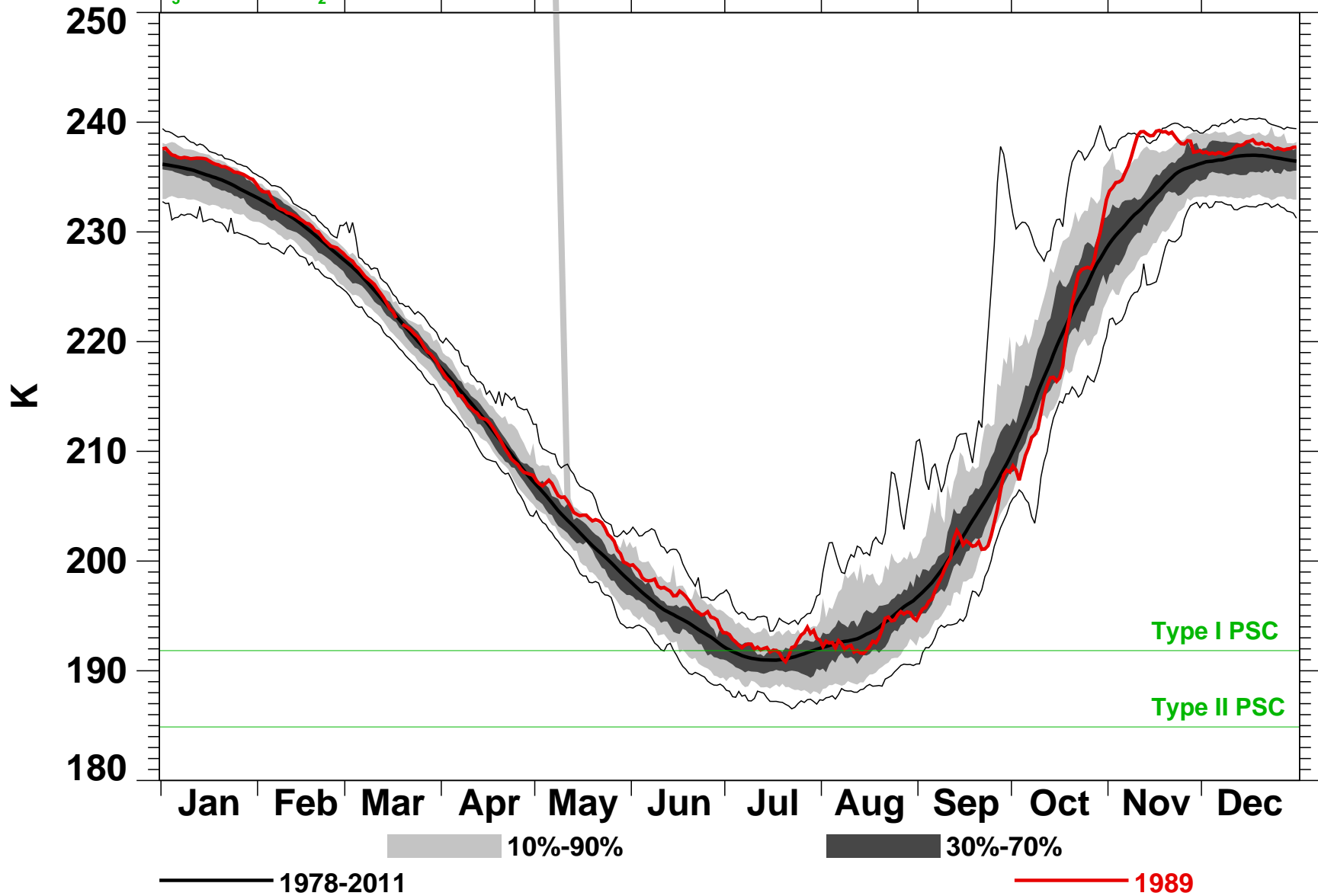


# 60-90°S Zonal Mean Temperature 30 hPa

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



Type I PSC

Type II PSC

10%-90%

30%-70%

1978-2011

1989

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