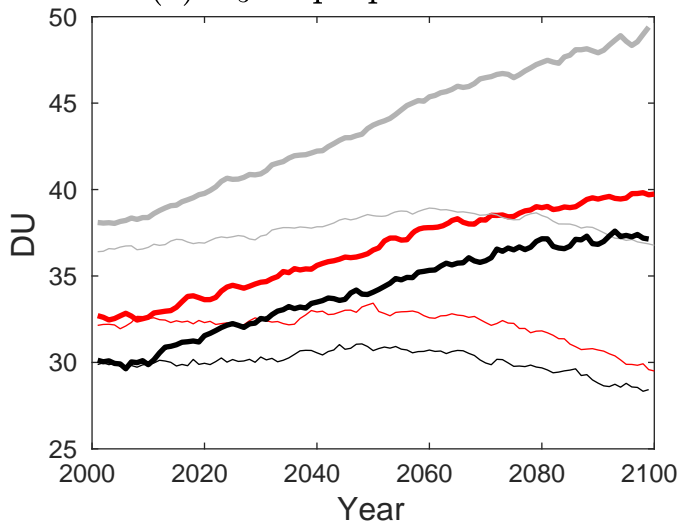
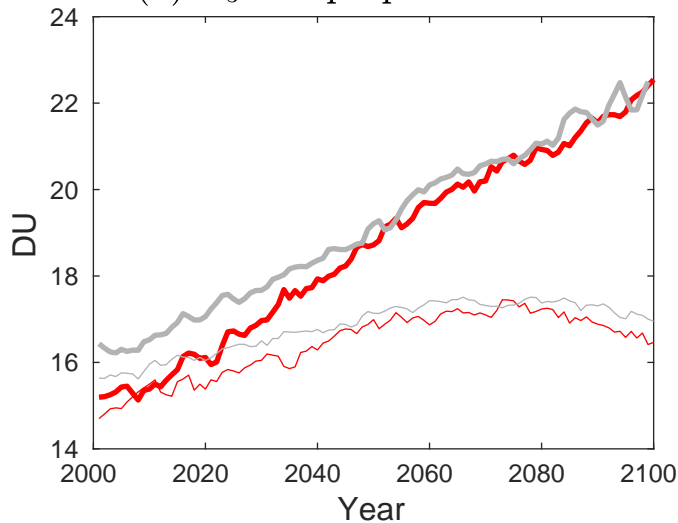
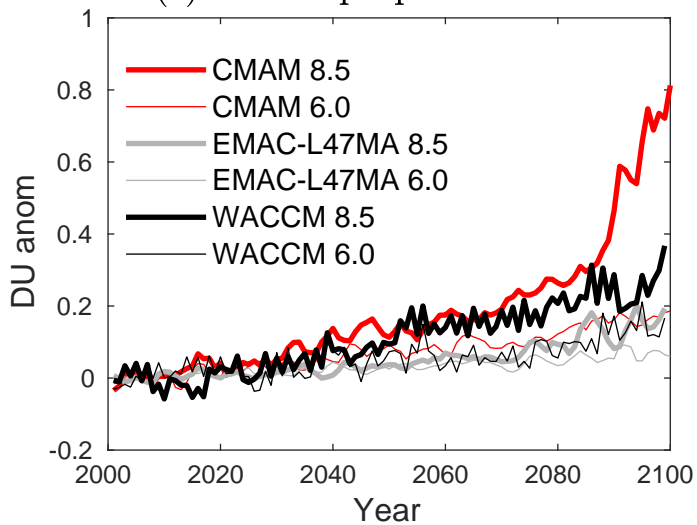
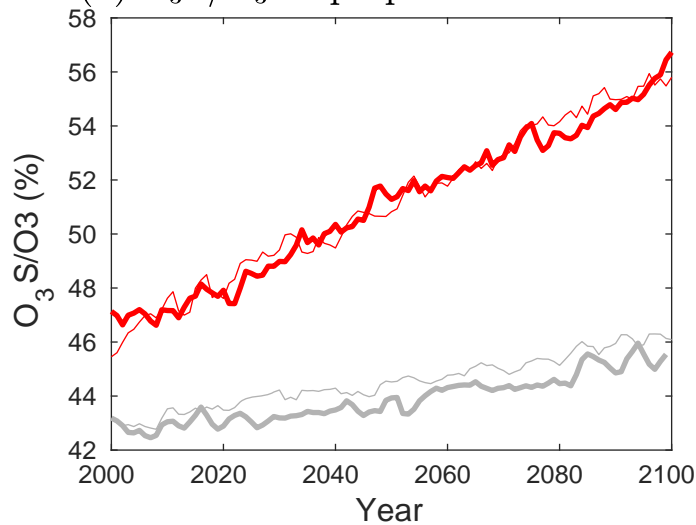
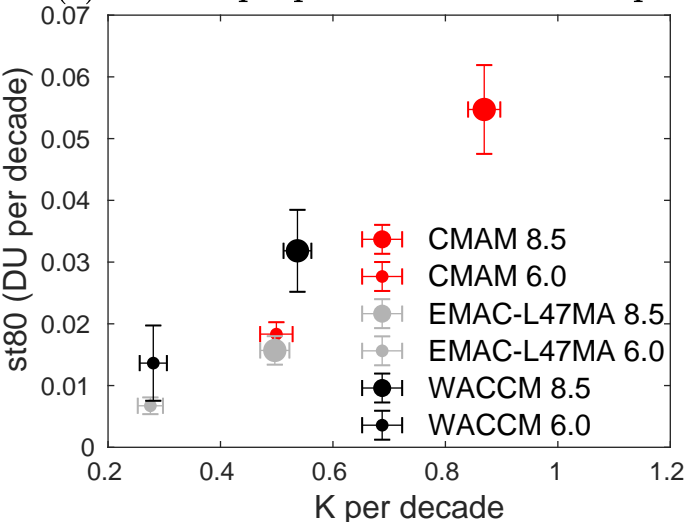


(a)  $O_3$  tropospheric column(b)  $O_3S$  tropospheric column

(c) st80 tropospheric column

(d)  $O_3S/O_3$  tropospheric column ratio

(e) st80 troposphere vs. climate response

(f)  $O_3S$  troposphere vs. climate response