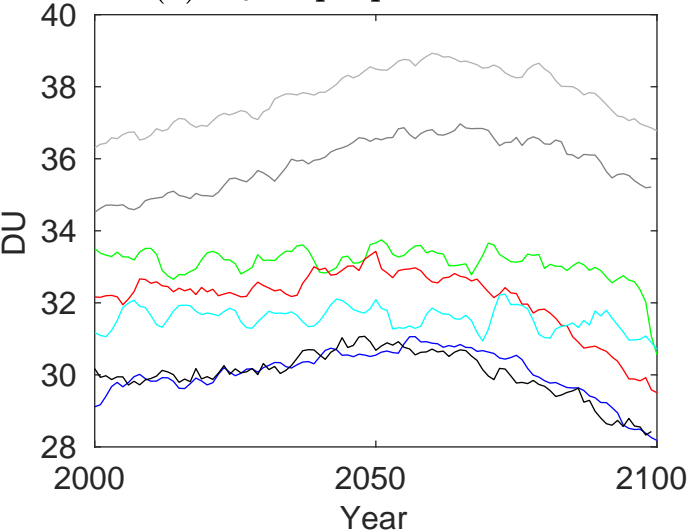
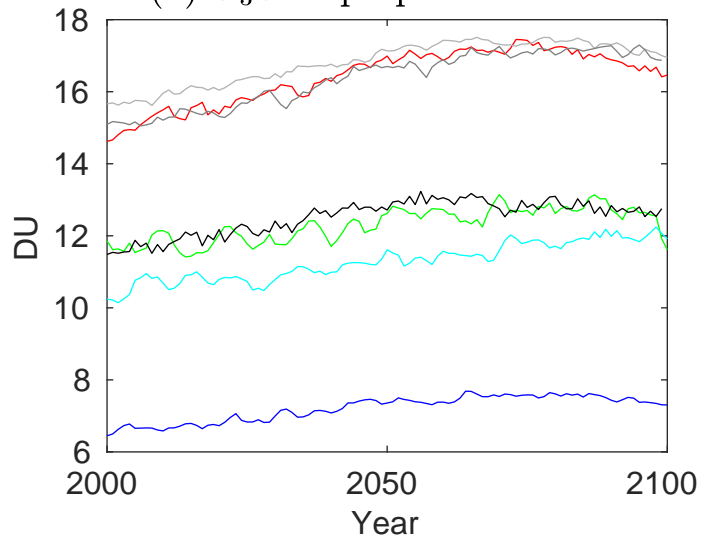
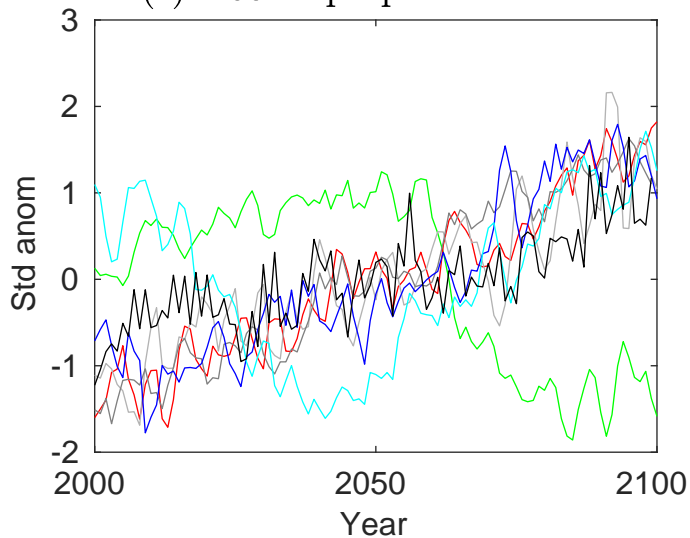
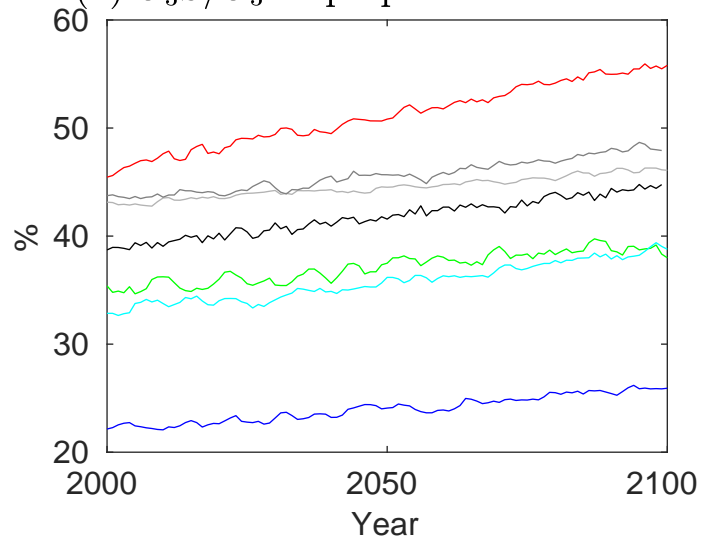


(a)  $O_3$  tropospheric column(b)  $O_3S$  tropospheric column

(c) st80 tropospheric column

(d)  $O_3S/O_3$  tropospheric column ratio

— ACCESS  
— CMAM  
— EMAC-L47MA  
— EMAC-L90MA

— GEOSCCM  
— NIWA  
— WACCM