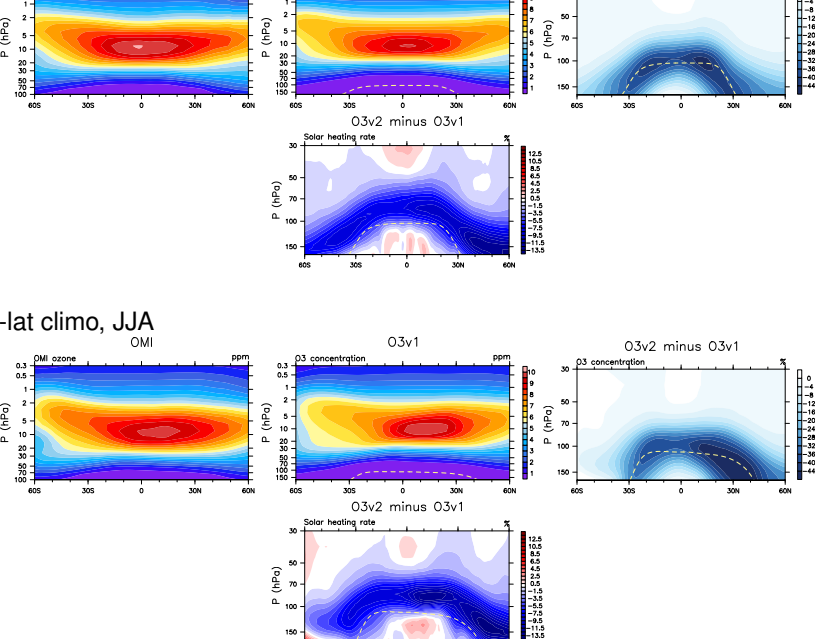


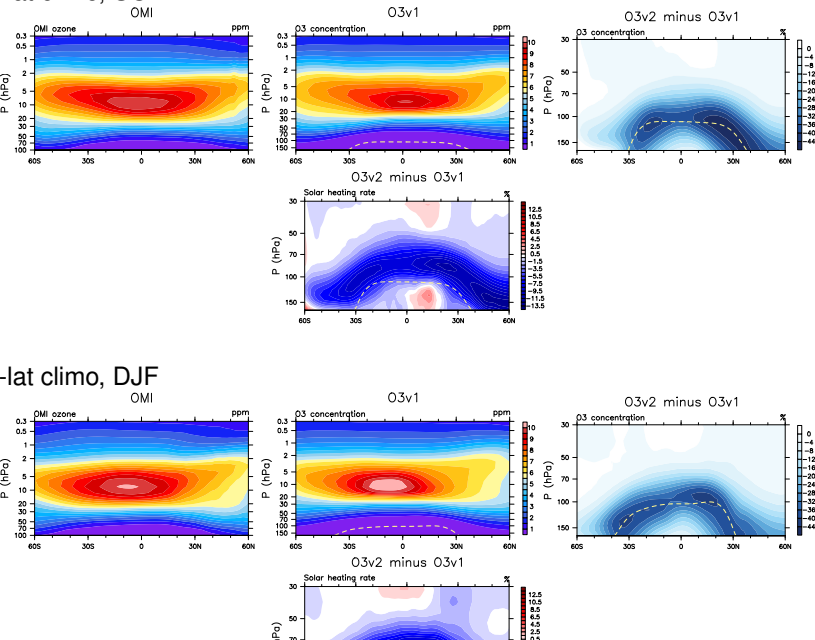
Last 20 years of the 25-year E3SM results are used for climatologies and anomalies on the Taylor diagram.

QBO composite keys to U at 40 hPa.

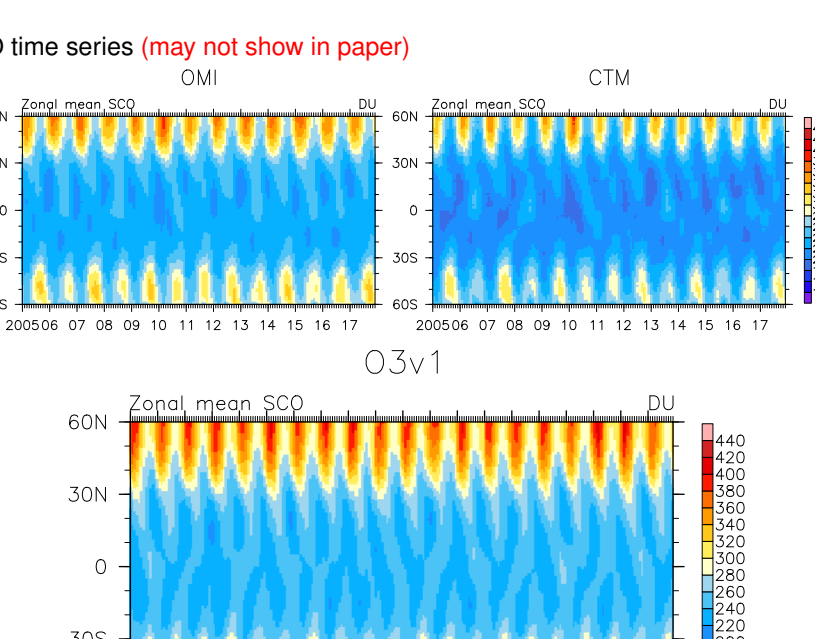
pres-lat climo, MAM



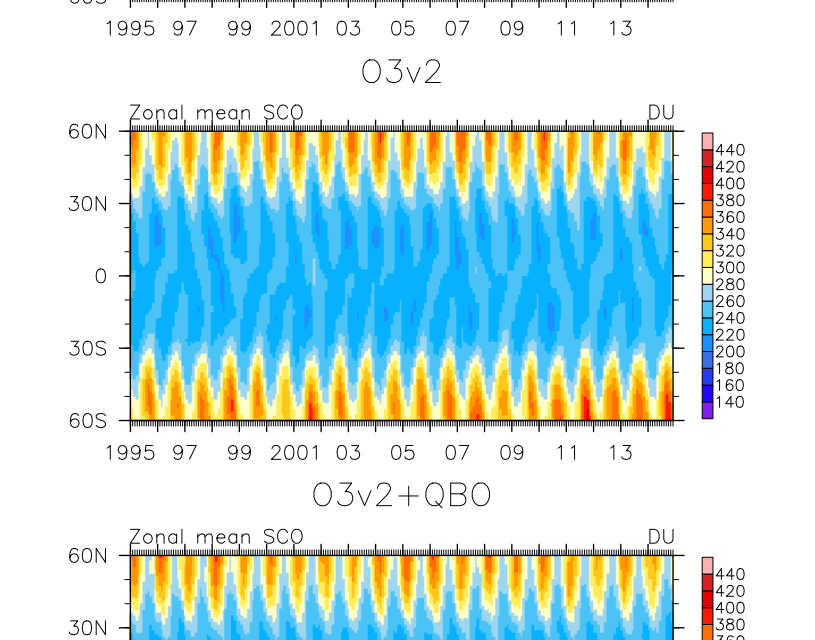
pres-lat climo, JJA



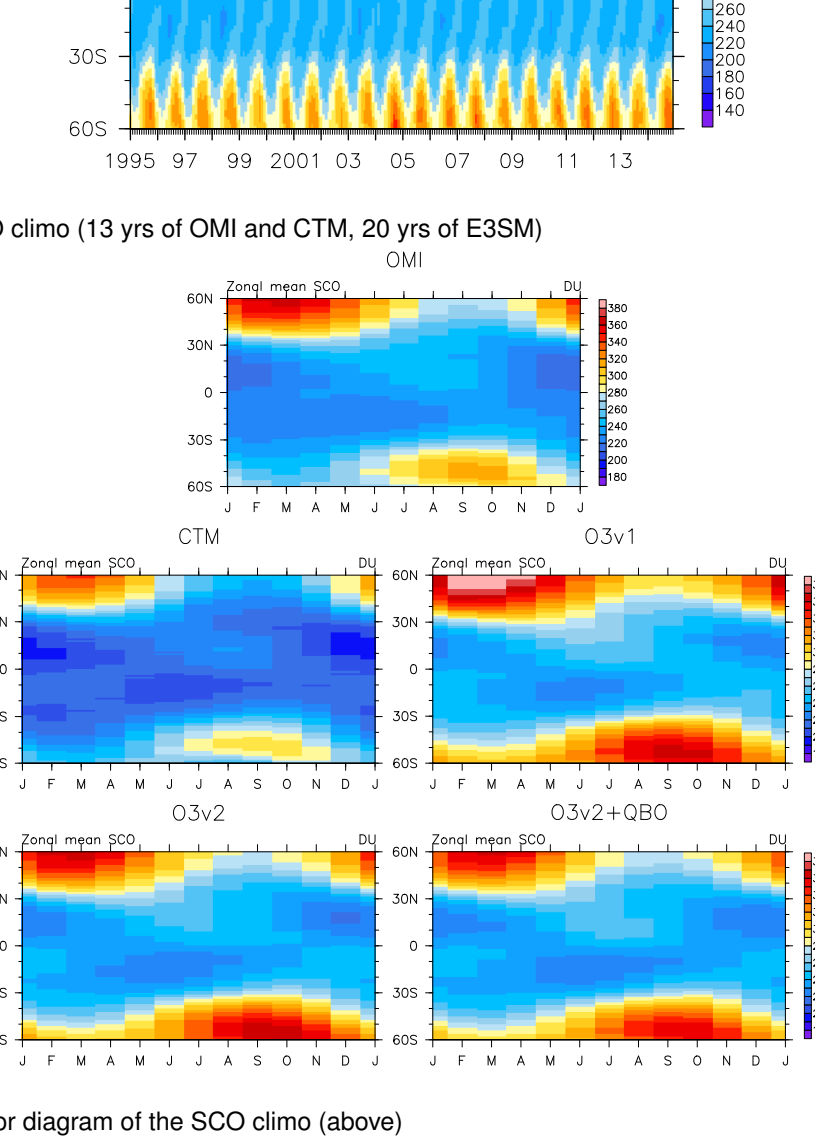
pres-lat climo, SON



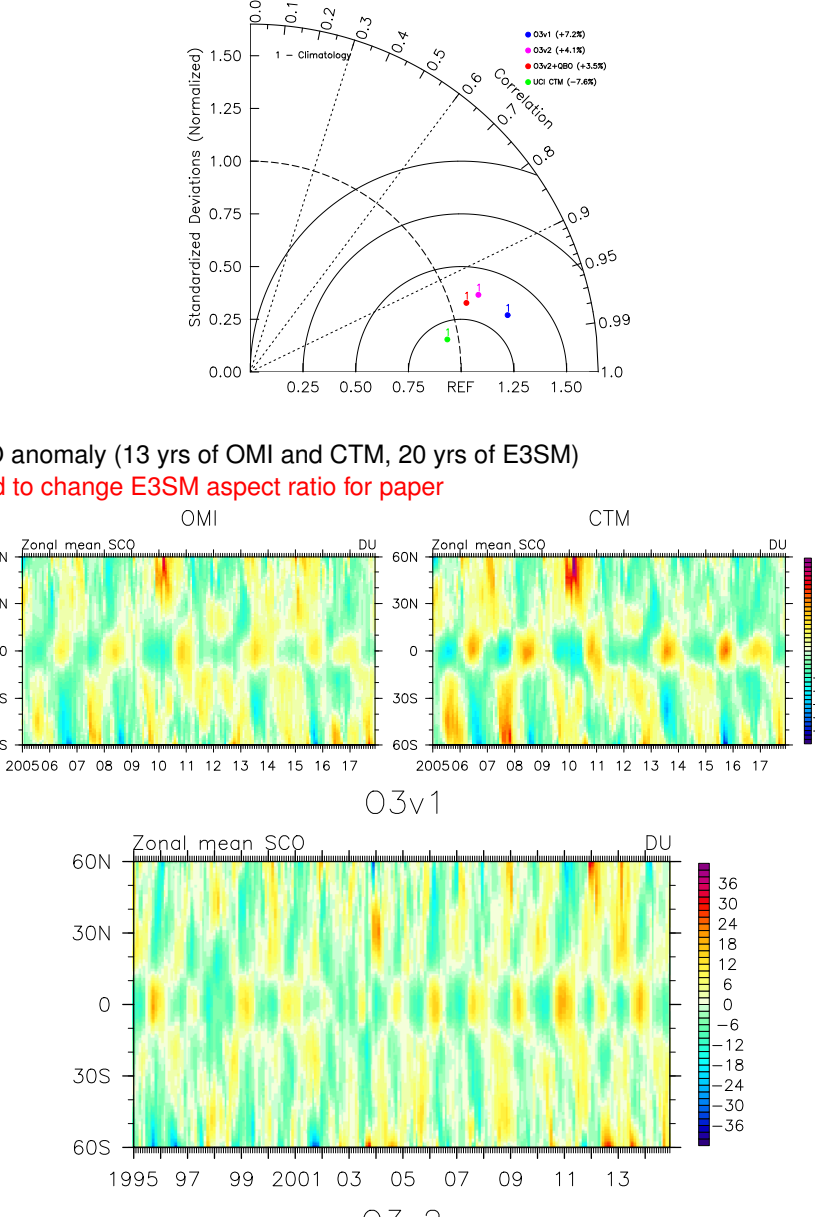
pres-lat climo, DJF



SCO time series (may not show in paper)

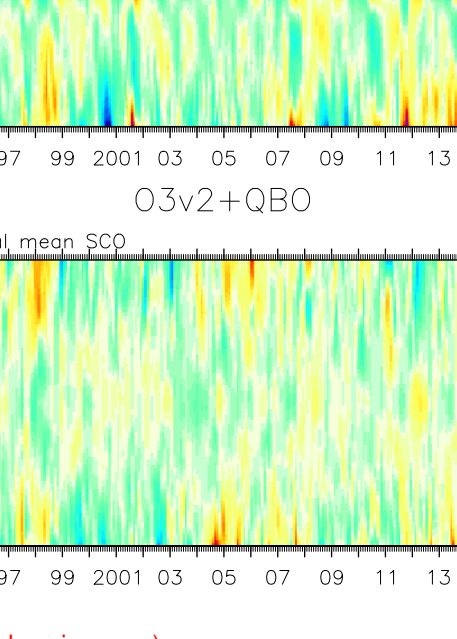


SCO climo (13 yrs of OMI and CTM, 20 yrs of E3SM)



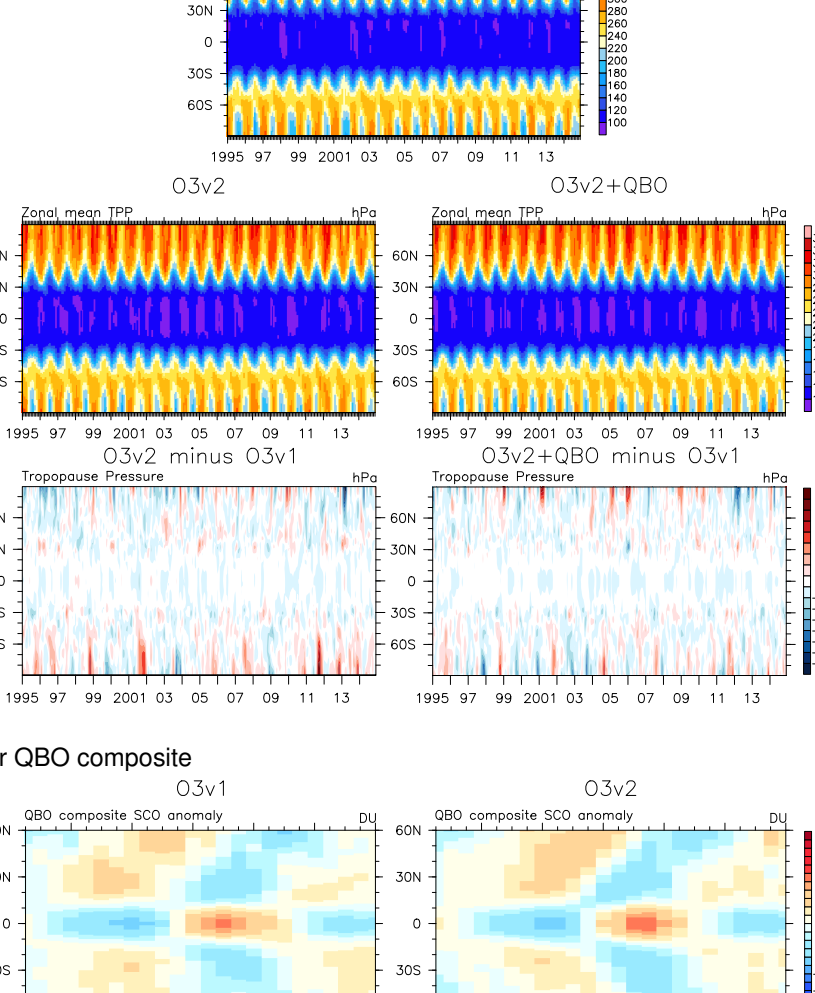
Taylor diagram of the SCO climo (above)

Taylor diagram requires R, so cannot plot when data lengths are different. Will plot the zonal variance as lines on a separate figure.

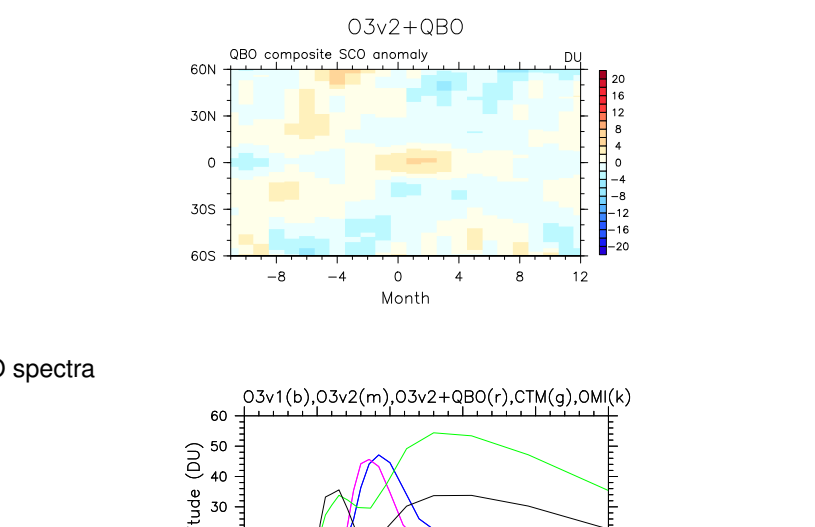


SCO anomaly (13 yrs of OMI and CTM, 20 yrs of E3SM)

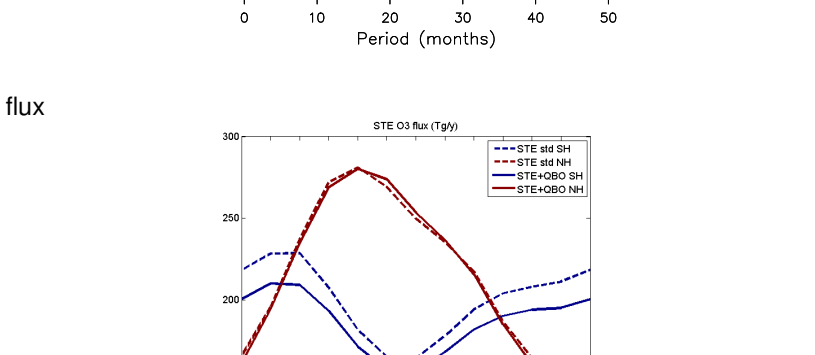
need to change E3SM aspect ratio for paper



20-yr TPP (may not show in paper)



20-yr QBO composite



QBO spectra



STE flux

