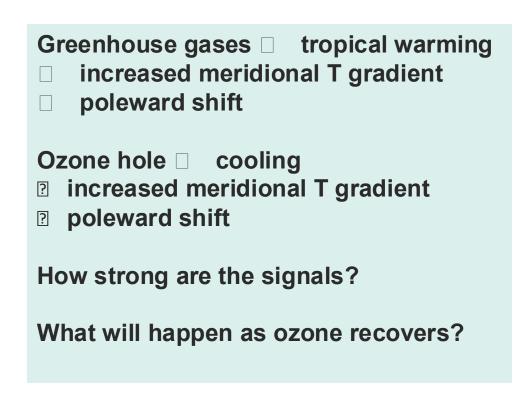
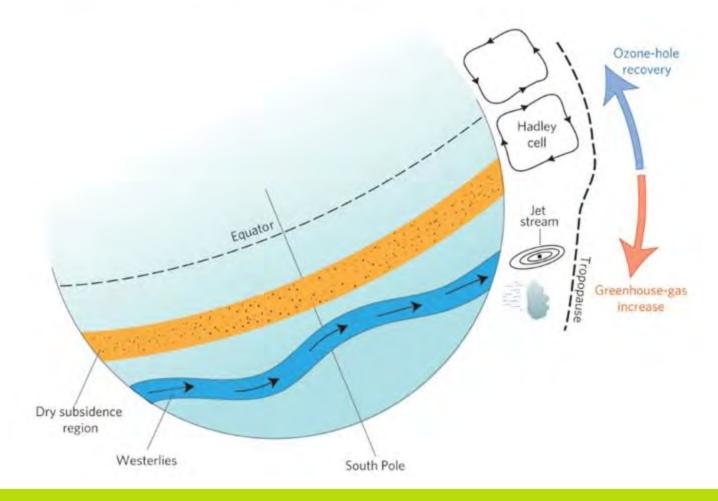
Ozone vs GHGs

Figure 1: Impact of greenhouse-gas increase and ozone-hole recovery on climate.



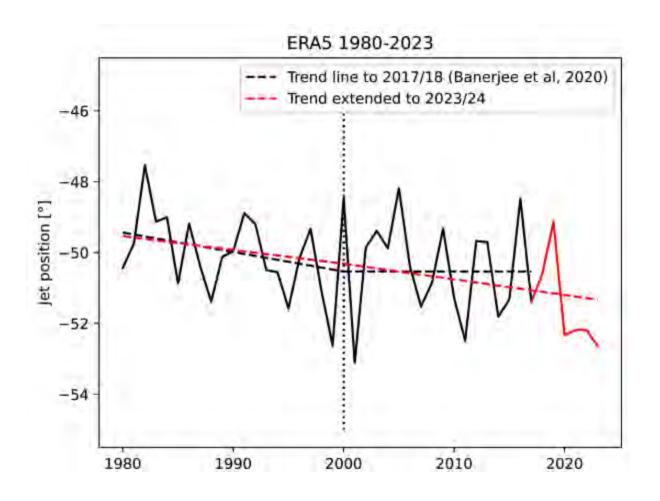


Ozone recovery

Some evidence for equatorward shift

consistent with ozone recovery (Banerjee et al)

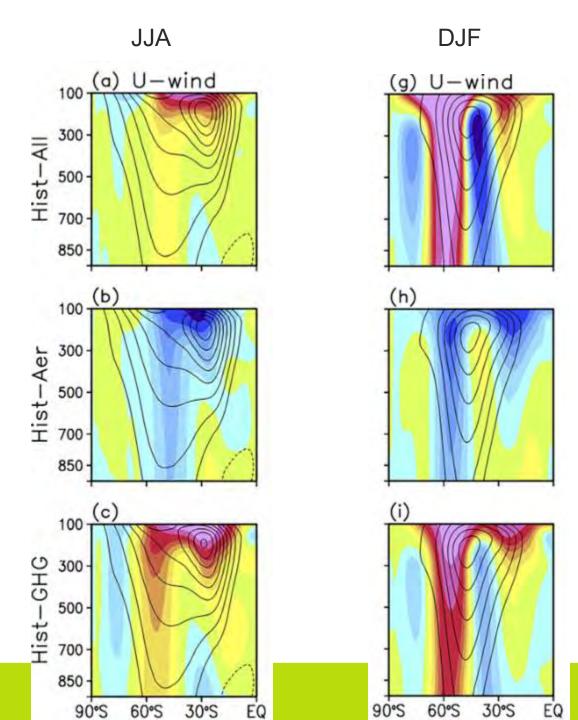
But later obs perhaps continue the trend



Aerosol impacts

Potential aerosol impacts in winter and summer

Tend to offset GHGs



Model – obs discrepancies

EKE trends 1979-2018

Increase in reanalyses

Missing in coupled models

Better in AMIP

But large uncertainties in reanalyses

Internal variability?

