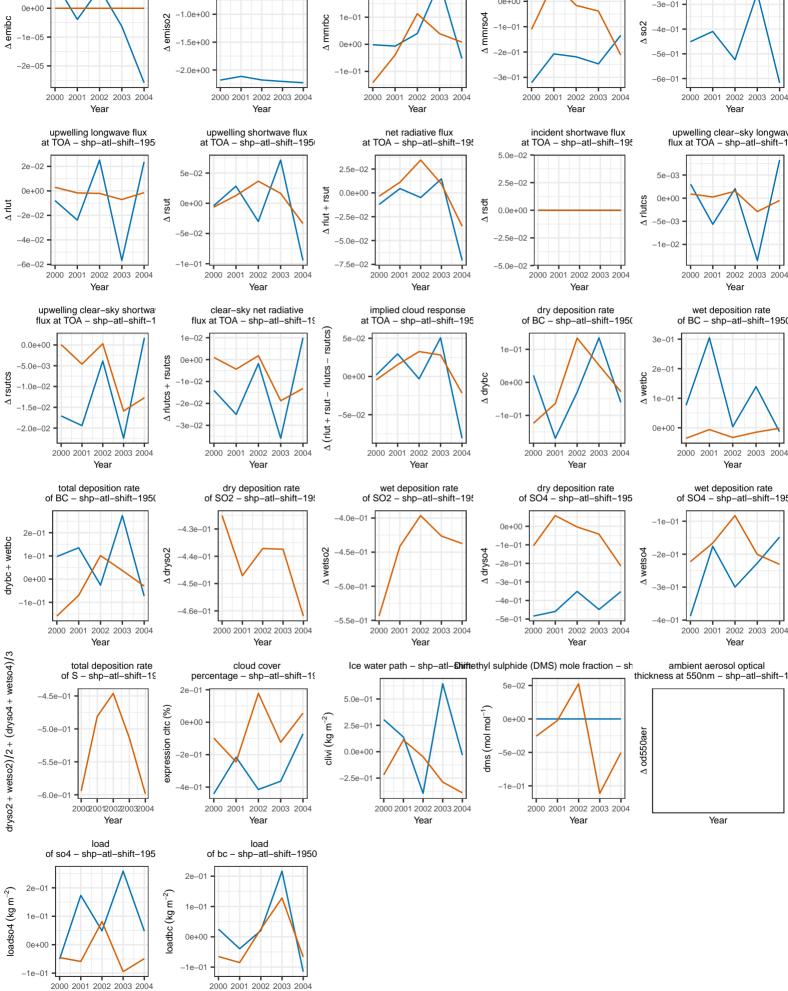
## NH-sea: absolute difference surface flux surface concentration surface concentration surface concentration of SO2 - shp-atl-shift-195 of SO2 - shp-atl-shift-195 of BC - shp-atl-shift-1950 of SO4 - shp-atl-shift-195 -5.0e-01 2e-01 0e+00 -3e-01 1e-01 0e+00 -5e-01 -1e-01 \_3e\_01 -6e-01 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year upwelling shortwave flux at TOA – shp–atl–shift–195 net radiative flux at TOA – shp-atl-shift-195 incident shortwave flux at TOA – shp-atl-shift-195 upwelling clear-sky longwav flux at TOA - shp-atl-shift-19 5.0e-02 2.5e-02 0.0e+00 0.0e + 00큳 -5e-03 -2 5e-02 -5 0e-02 -1e-02-5.0e-02 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year clear-sky net radiative implied cloud response dry deposition rate wet deposition rate flux at TOA - shp-atl-shift-19 at TOA - shp-atl-shift-195 of BC - shp-atl-shift-1950 of BC - shp-atl-shift-1950 rsutcs) 1e-01 rlutcs ∆ wetbc Δ drybα 0e+001e\_01 rsut -1e-01 크 0e+00 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year dry deposition rate of SO2 – shp-atl-shift-19 wet deposition rate of SO2 – shp-atl-shift-195 dry deposition rate of SO4 – shp-atl-shift-195 wet deposition rate of SO4 – shp-atl-shift-195 -4 0e-01 -1e-01 -4 5e-01 -2e-01 -3e-01 \_4e\_01 \_5e 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Ice water path - shp-atl-Shiftethyl sulphide (DMS) mole fraction - sh cloud cover ambient aerosol optical thickness at 550nm - shp-atl-shift-1 percentage - shp-atl-shift-19 5e-02 \_lom lom) smp clivi (kg m<sup>-2</sup>) 0e+00 2.5e-01 ∆ od550ae 0.0e+00 -5e-02 -2.5e-01 -1e-01 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 Year Year Year Year



surface flux

1e-05

of BC - shp-atl-shift-1950

Year

Year