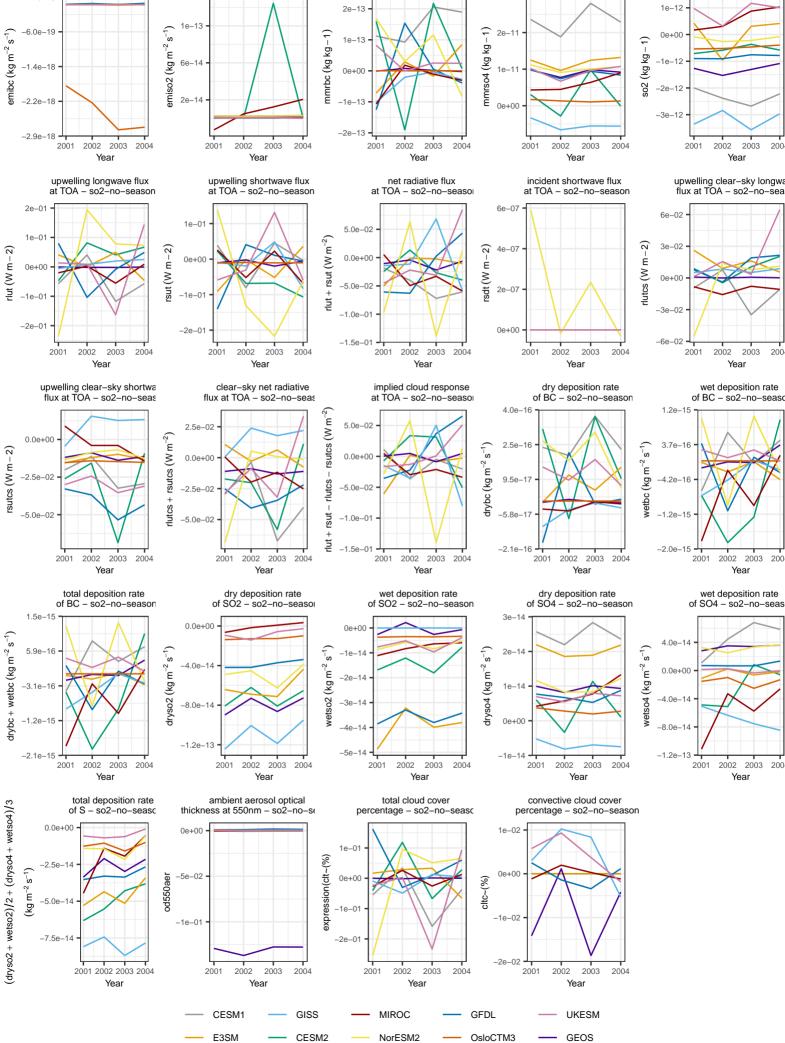
NH-atlantic: absolute difference surface flux of SO2 – so2–no–season surface concentration surface concentration of SO2 – so2–no–season surface concentration of SO4 - so2-no-season 1e-12 mmrso4 (kg kg – 1) 0e+00 mmrbc (kg kg – 1) so2 (kg kg-1) 0e+00 0e+00 2002 2003 2002 2003 2001 2001 2002 2003 2001 2002 2003 2001 Year Year Year Year upwelling shortwave flux at TOA – so2–no–season upwelling clear-sky longway flux at TOA - so2-no-seas net radiative flux incident shortwave flux at TOA - so2-no-season at TOA - so2-no-season 6e-02 5.0e-02 $rlut + rsut (W m^{-2})$ 3e-02 rlutcs (W m-2) rsdt(Wm-2)0.0e+00 0e+00 2e-07 0e+00 _6e_02 2001 2002 2003 2001 2002 2003 2001 2002 2003 2004 2001 2002 2003 Year Year Year Year dry deposition rate of BC – so2–no–season clear-sky net radiative implied cloud response wet deposition rate flux at TOA - so2-no-seas at TOA - so2-no-seaso of BC - so2-no-seasor 5.0e-02 rsut - rlutcs - rsutcs (W 2.5e-16 wetbc $(kg m^{-2} s^{-1})$ drybc (kg $m^{-2} s^{-1}$) 0.0e + 0.0-5.0e-02 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2001 2003 Year Year Year Year dry deposition rate wet deposition rate dry deposition rate wet deposition rate of SO2 - so2-no-season of SO2 - so2-no-season of SO4 - so2-no-season of SO4 - so2-no-seaso 3e-14 0e+00 4.0e-14 wetso2 (kg m⁻² s⁻¹) 2e-14 wetso4 (kg m⁻² s⁻¹) dryso4 (kg m⁻² s⁻¹) 0.0e+00-3e-14 -1.2e-1 2002 2003 2002 2003 2001 2003 2002 2003 Year Year Year ambient aerosol optical total cloud cover convective cloud cover percentage - so2-no-seaso percentage - so2-no-season 1e-02 1e-0 expression(clt~(%) 0e+00 -1e-01



surface flux of BC – so2–no–season

1.7e-19