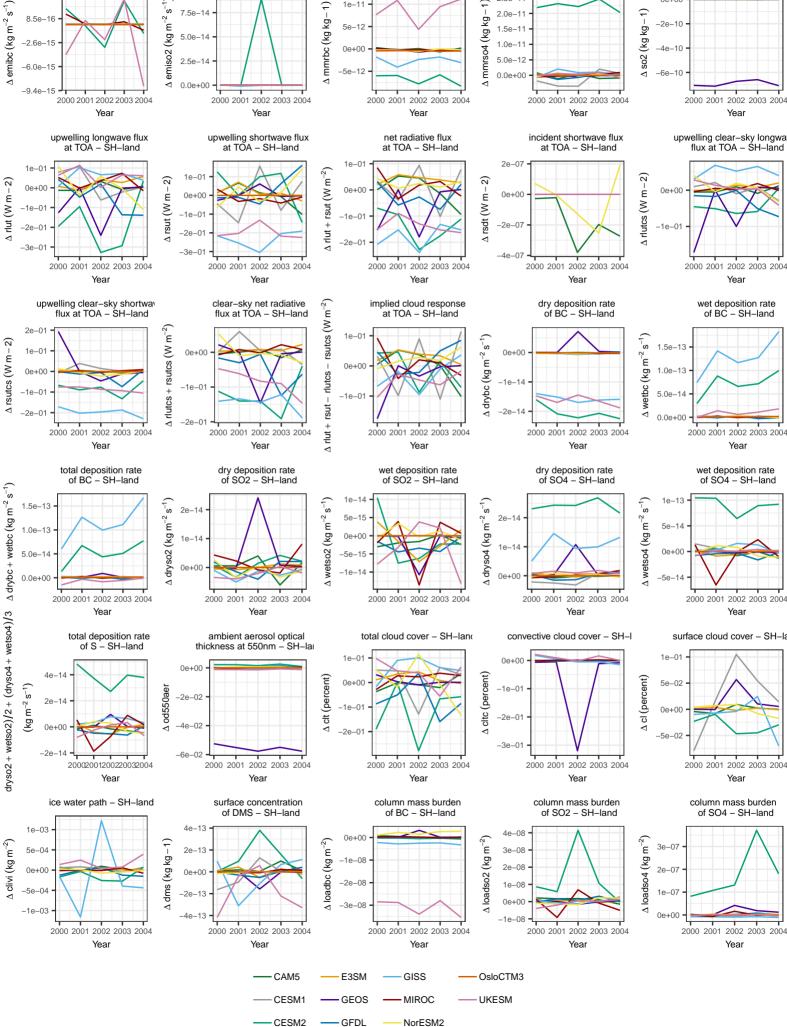
bc-no-season: absolute difference surface flux surface concentration surface concentration surface concentration of SO2 - SH-land of BC - SH-land of SO4 - SH-land of SO2 - SH-land 2.5e-11 00+00 kg-1∆ mmrbc (kg kg − 1) 2 0e-11 ∆ so2 (kg kg − 1) <u>k</u>g 5 0e-14 1.0e_11 0e+00 -4e-10 ∆ mmrso4 5.0e-12 0.0e+00 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year upwelling shortwave flux at TOA – SH–land upwelling clear-sky longway flux at TOA - SH-land net radiative flux incident shortwave flux at TOA - SH-land at TOA - SH-land Δ rlut + rsut (W m⁻²) Δ rlutcs (W m-2) 0e+00 00+00 ∆ rsdt (W m – -1e-01 -2e-01 2000 2001 2002 2003 2004 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year Year Year Year dry deposition rate of BC – SH–land wet deposition rate of BC – SH–land clear-sky net radiative rsutcs (W m⁻²) implied cloud response flux at TOA - SH-land at TOA - SH-land $^{\Delta}$ drybc (kg m $^{-2}$ s $^{-1}$ 1.5e-13 wetbc (kg m⁻² 0e+00 rlutcs – 1.0e-13 5.0e--1e-0 rsut 0.0e+0.0rlut + 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 2000 2001 2002 2003 2004 Year dry deposition rate of SO2 – SH–land dry deposition rate of SO4 – SH–land wet deposition rate of SO2 – SH-land wet deposition rate of SO4 – SH-land wetso2 (kg m⁻² s⁻ wetso4 (kg m⁻² s⁻ dryso4 (kg m⁻² s⁻ 5e-14 0e+00 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 ambient aerosol optical total cloud cover - SH-land convective cloud cover - SH-I surface cloud cover - SH-la thickness at 550nm - SH-lai 1e-01 1e-01 0e+00 ∆ cltc (percent) ∆ clt (percent) (percent) 5e-02 0e+00) | | | -2e-01 -2e-01 -5e-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



surface flux

4.3e-15

-2.6e-15

of BC - SH-land