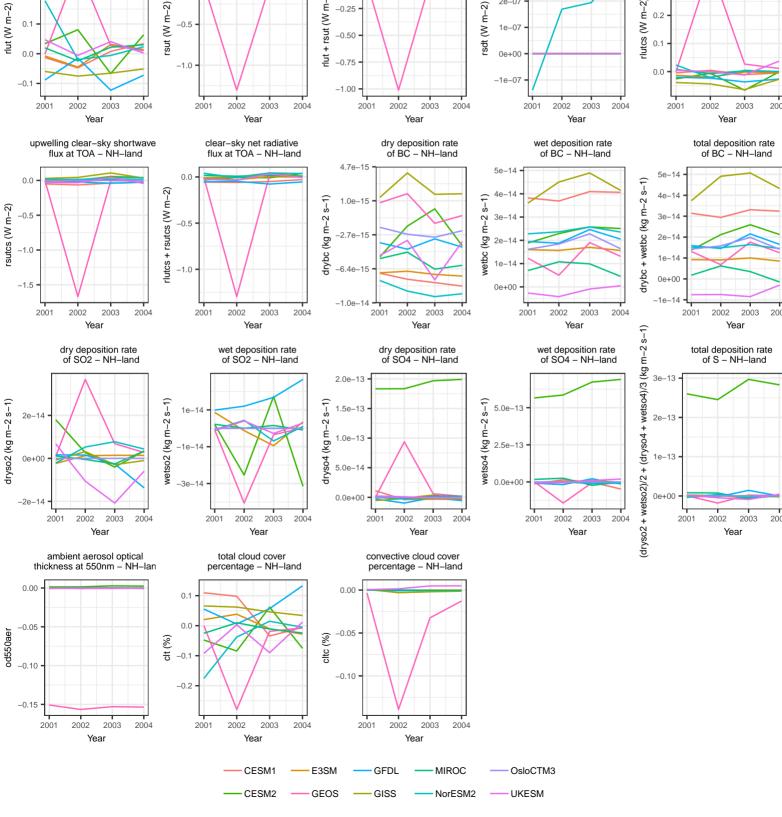
bc-no-season: absolute difference surface flux of SO2 – NH–land surface concentration of SO4 – NH–land surface concentration surface concentration of SO2 – NH–land 0e+00 mmrso4 (kg kg-1) mmrbc (kg kg-1) so2 (kg kg-1) -5.0e-12 _2e_09 5.0e-1 3.6e-17 -4e-09 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – NH–land net radiative flux at TOA – NH–land incident shortwave flux at TOA – NH–land upwelling clear-sky longwave flux at TOA - NH-land 3e-07 0.00 0.0 0.3 rlut + rsut (W m-2) 2e-07 rlutes (W m-2) rsdt (W m-2) 0.2 -0.5 1e-07 0.1 0e+00 -0.75 0.0 -1.00 2001 2003 2001 2003 2001 2002 2003 2001 2003 Year Year Year Year dry deposition rate of BC – NH–land wet deposition rate of BC – NH–land total deposition rate of BC – NH–land clear-sky net radiative flux at TOA - NH-land 4.7e-15 drybc + wetbc (kg m-2 s-1) (kg m-2 s-1) drybc (kg m-2 s-1) 1.0e-15 3e-14 3e-14 -0.5 wetbc 1e-14 0e+00 0e+00 2003 2001 2003 2004 2001 2002 2001 2003 2002 2003 Year Year Year Year (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 (kg m-2 s-1) dry deposition rate of SO4 – NH–land total deposition rate of S – NH–land wet deposition rate of SO4 – NH–land wet deposition rate of SO2 - NH-land dryso4 (kg m-2 s-1) m-2 s-1 Š 5.0e-14 0.0e+00 0.0e+0.02001 2002 2003 2001 2002 2003 2004 2001 2002 2003 2001 2002 2003 2004 Year Year Year convective cloud cover percentage – NH–land total cloud cover 0.00 0.0 0.05



surface flux of BC – NH–land

emiso2 (kg m-2 s-1

emibc (kg m-2 s-1)

9.0e-17

0.3

0.2

2001

2002

upwelling longwave flux at TOA – NH–land

Year

2003