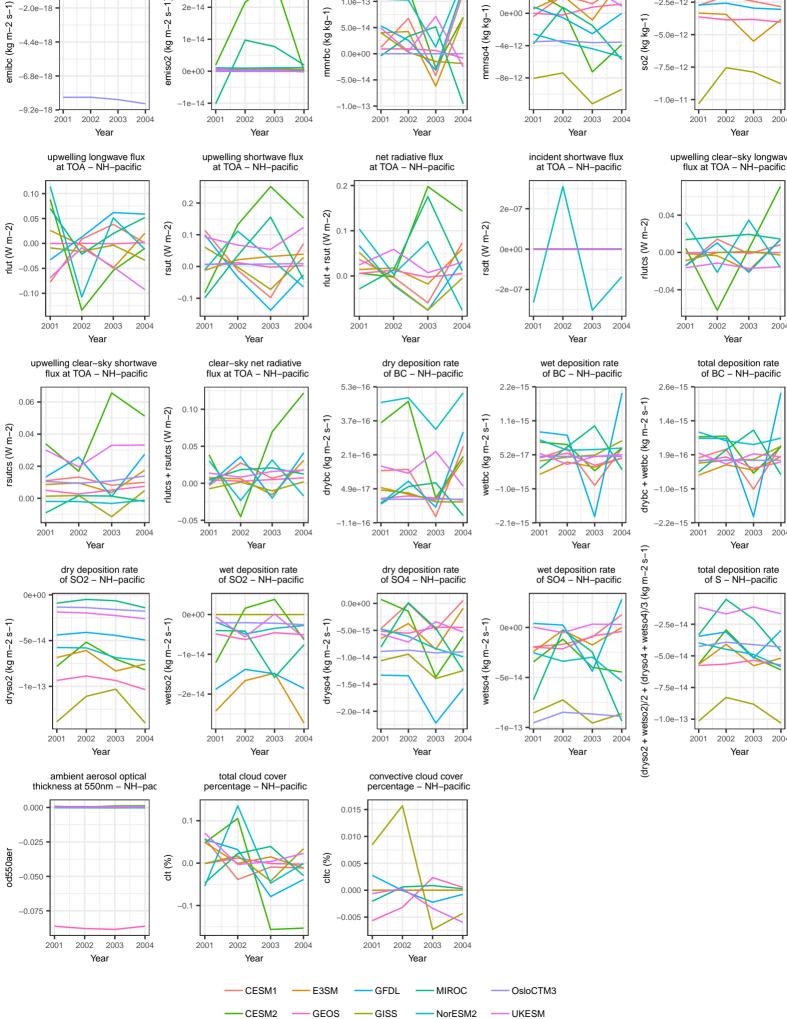
so2-no-season: absolute difference surface flux of SO2 – NH–pacific surface concentration of SO2 – NH–pacific surface concentration surface concentration of SO4 – NH–pacific 3e-14 1.0e-13 mmrso4 (kg kg-1) mmrbc (kg kg-1) 0e+00 so2 (kg kg-1) 5.0e-14 0.0e+00 -8e-12 -1 0e-1 2001 2002 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year upwelling shortwave flux at TOA – NH–pacific upwelling clear–sky longwave flux at TOA – NH–pacific net radiative flux at TOA – NH–pacific incident shortwave flux at TOA – NH–pacific 0.2 2e-07 rlut + rsut (W m-2) 0.04 rlutcs (W m-2) rsdt (W m-2) 0.1 0e+00 0.00 0.0 -2e-07 -0.042003 2001 2003 2001 2002 2003 2001 2003 Year Year Year Year clear-sky net radiative dry deposition rate wet deposition rate total deposition rate flux at TOA - NH-pacific of BC - NH-pacific of BC - NH-pacific of BC - NH-pacific 5.3e-16 2.2e-15 2.6e-15 drybc + wetbc (kg m-2 s-1) drybc (kg m-2 s-1) wetbc (kg m-2 s-1) 3.7e-16 1.4e-15 -2 1e-1 2003 2001 2002 2003 2001 2002 2003 2001 2002 2003 Year Year Year Year wetso4)/3 (kg m-2 s-1) wet deposition rate of SO2 – NH–pacific total deposition rate of S – NH–pacific dry deposition rate wet deposition rate of SO4 - NH-pacific of SO4 - NH-pacific wetso4 (kg m-2 s-1) dryso4 (kg m-2 s-1) 0e+00 -5.0e-15 (dryso2 + wetso2)/2 + (dryso4 + 1 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 2001 2002 2003 2004 Year Year Year convective cloud cover total cloud cover percentage - NH-pacific 0.015



surface flux of BC – NH–pacific