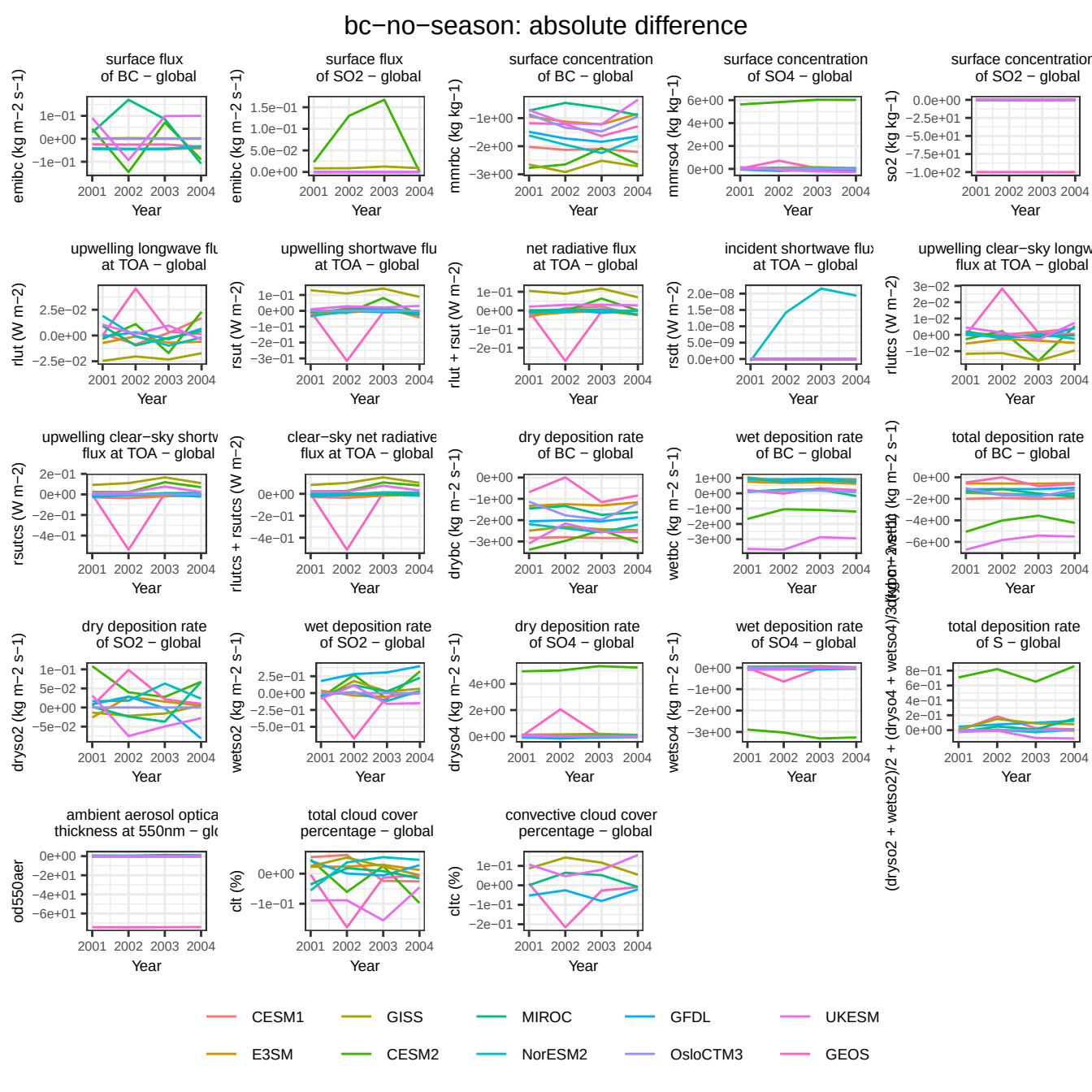
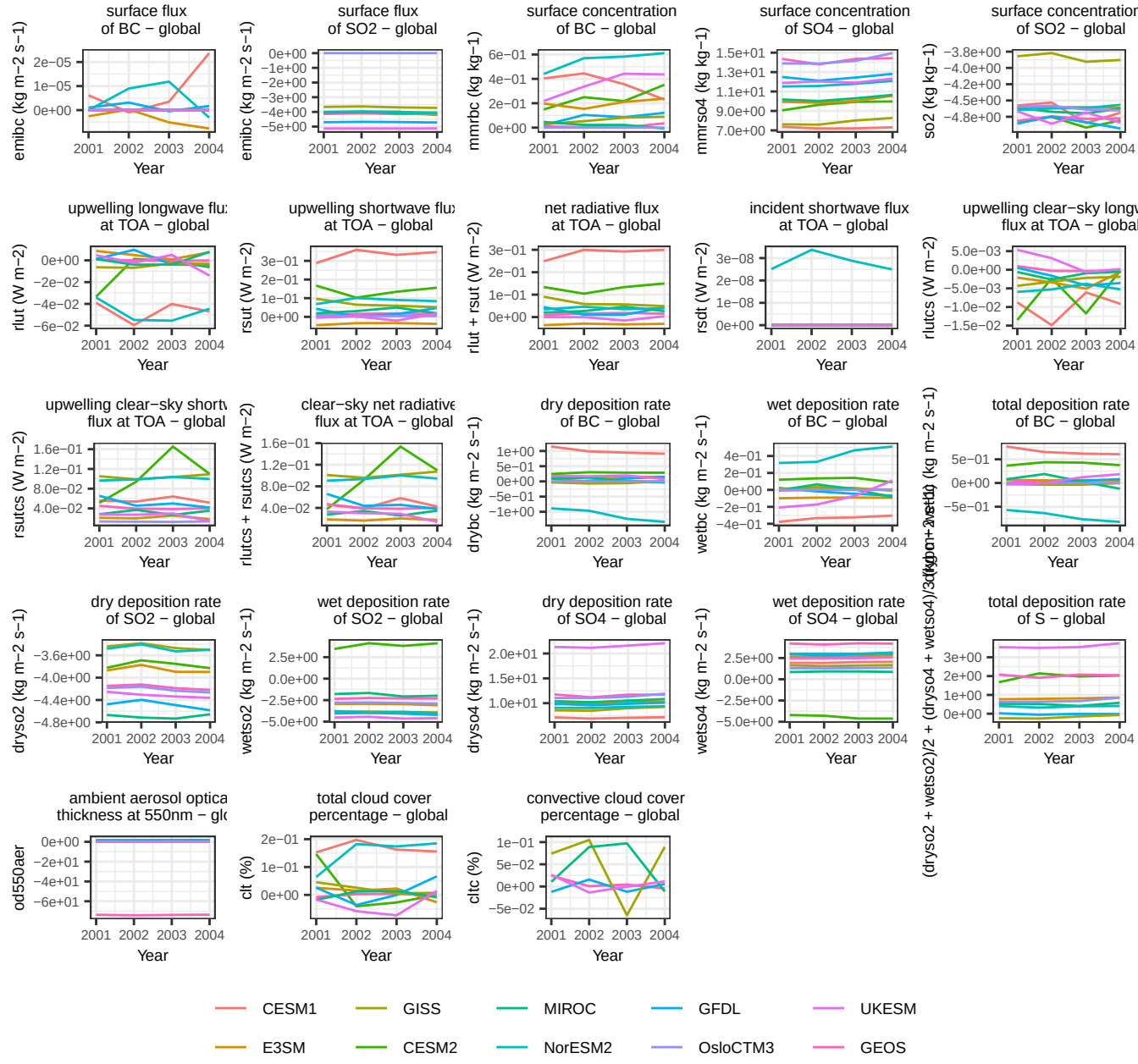
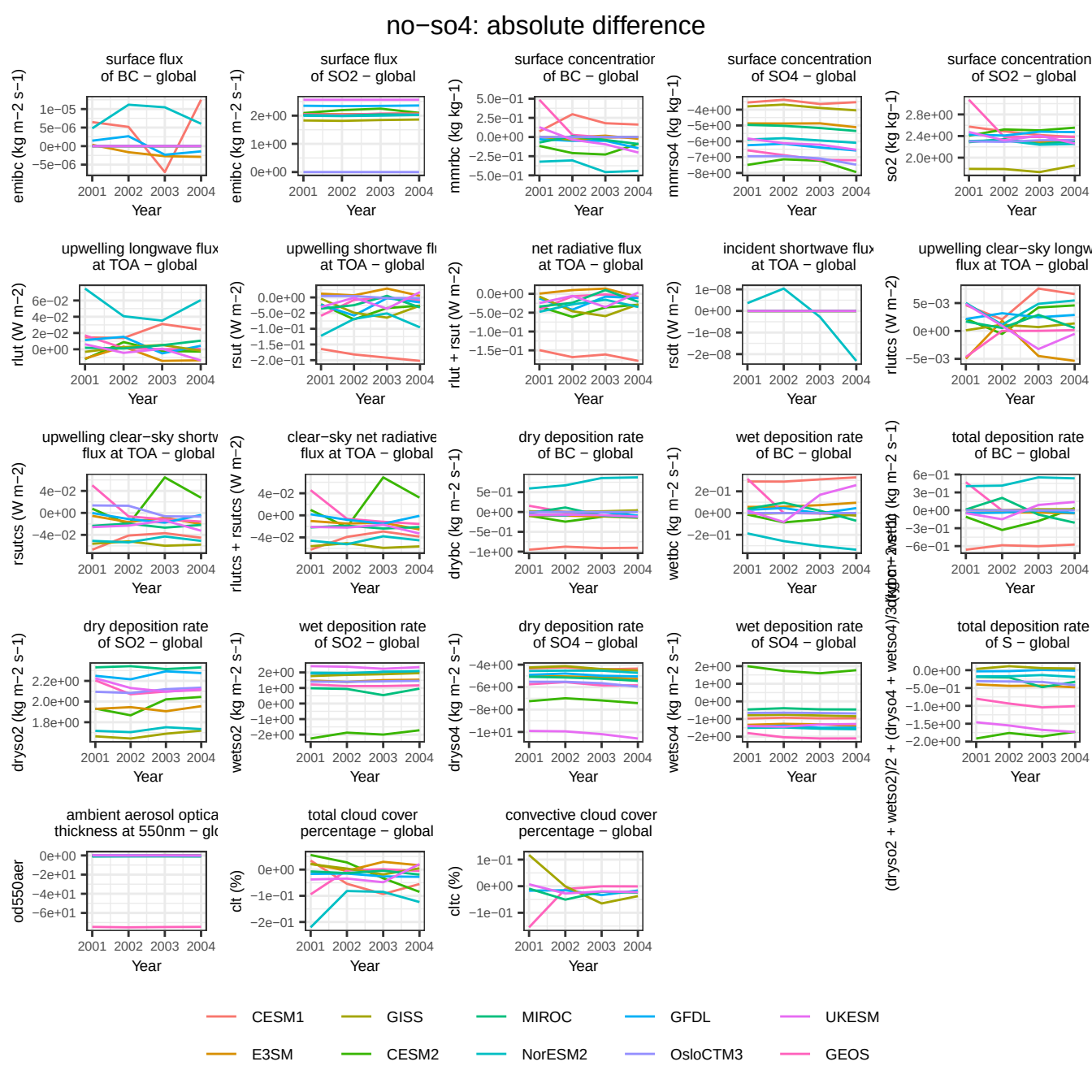
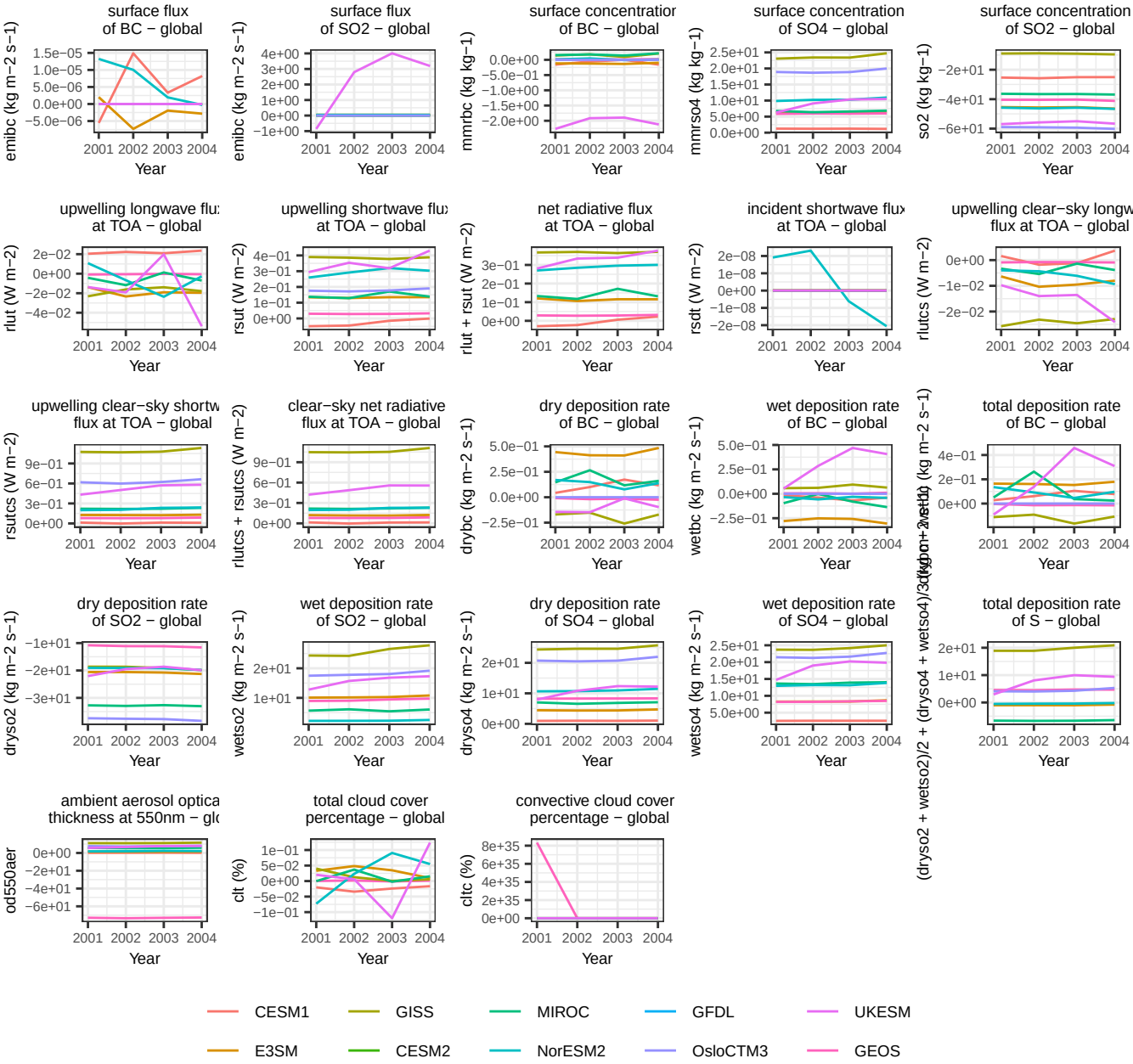

bc−no−season: absolute difference
surface flux of BC − global
surface flux of SO2 − global
surface concentration of BC − global
surface concentration of SO4 − global
surface concentration of SO2 − global
upwelling longwave flu at TOA − global
upwelling shortwave flu at TOA − global
net radiative flux at TOA − global
incident shortwave flux at TOA − global
upwelling clear−sky longw flux at TOA − global
upwelling clear−sky shortv flux at TOA − global
clear−sky net radiative flux at TOA − global
dry deposition rate of BC − global
wet deposition rate of BC − global
total deposition rate of BC − global
dry deposition rate of SO2 − global
wet deposition rate of SO2 − global
dry deposition rate of SO4 − global
wet deposition rate of SO4 − global
total deposition rate of S − global
ambient aerosol optica thickness at 550nm − gl
total cloud cover percentage − global
convective cloud cover percentage − global
emibc (kg m−2 s−1)
emibc (kg m−2 s−1)
mmrbc (kg kg−1)
mmrso4 (kg kg−1)
so2 (kg kg−1)
rlut (W m−2)
rsut (W m−2)
rlut + rsut (W m−2)
rsdt (W m−2)
rlutcs (W m−2)
rsutcs (W m−2)
rlutcs + rsutcs (W m−2)
drybc (kg m−2 s−1)
wetbc (kg m−2 s−1)
(dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 + (drybc + wetbc)
dryso2 (kg m−2 s−1)
wetso2 (kg m−2 s−1)
dryso4 (kg m−2 s−1)
wetso4 (kg m−2 s−1)
od550aer
clt (%)
cltc (%)
Year
2001 2002 2003 2004
CESM1
GISS
MIROC
GFDL
UKESM
E3SM
CESM2
NorESM2
OsloCTM3
GEOS

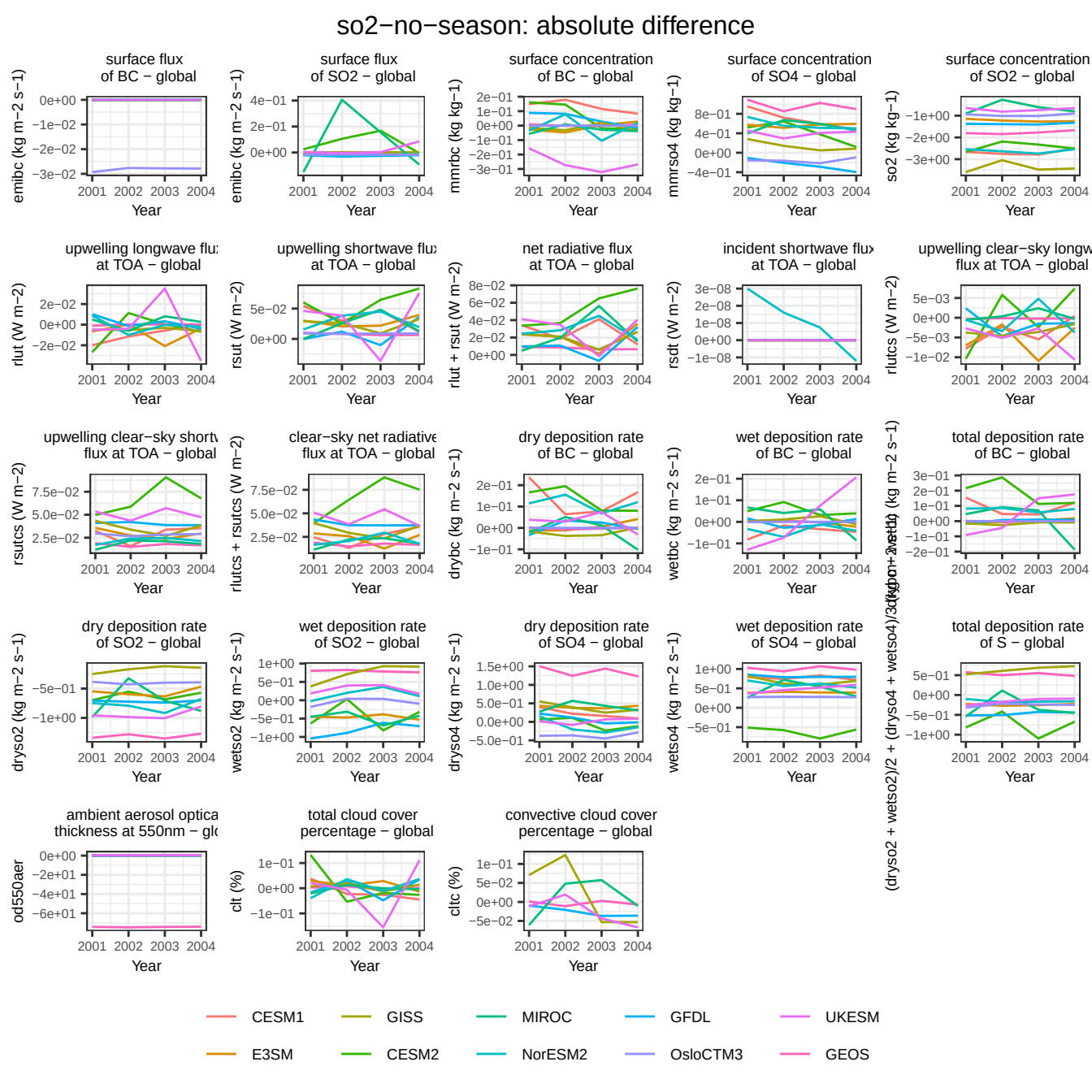
high−so4: absolute difference




no−so4: absolute difference
surface flux of BC − global
surface flux of SO2 − global
surface concentration of BC − global
surface concentration of SO4 − global
surface concentration of SO2 − global
upwelling longwave flux at TOA − global
upwelling shortwave flux at TOA − global
net radiative flux at TOA − global
incident shortwave flux at TOA − global
upwelling clear−sky longwave flux at TOA − global
upwelling clear−sky shortwave flux at TOA − global
clear−sky net radiative flux at TOA − global
dry deposition rate of BC − global
wet deposition rate of BC − global
total deposition rate of BC − global
dry deposition rate of SO2 − global
wet deposition rate of SO2 − global
dry deposition rate of SO4 − global
wet deposition rate of SO4 − global
total deposition rate of S − global
ambient aerosol optical thickness at 550nm − global
total cloud cover percentage − global
convective cloud cover percentage − global
Year
CESM1
GISS
MIROC
GFDL
UKESM
E3SM
CESM2
NorESM2
OsloCTM3
GEOS

so2−at−height: absolute difference




so2−no−season: absolute difference
surface flux of BC − global
surface flux of SO2 − global
surface concentration of BC − global
surface concentration of SO4 − global
surface concentration of SO2 − global
upwelling longwave flux at TOA − global
upwelling shortwave flux at TOA − global
net radiative flux at TOA − global
incident shortwave flux at TOA − global
upwelling clear−sky longwave flux at TOA − global
upwelling clear−sky shortwave flux at TOA − global
clear−sky net radiative flux at TOA − global
dry deposition rate of BC − global
wet deposition rate of BC − global
total deposition rate of BC − global
dry deposition rate of SO2 − global
wet deposition rate of SO2 − global
dry deposition rate of SO4 − global
wet deposition rate of SO4 − global
total deposition rate of S − global
ambient aerosol optical thickness at 550nm − global
total cloud cover percentage − global
convective cloud cover percentage − global
Year
CESM1
GISS
MIROC
GFDL
UKESM
E3SM
CESM2
NorESM2
OsloCTM3
GEOS