arctic: absolute difference

Legend: CESM1 (blue), GISS (orange)

global: absolute difference

Figure legend: CESM1 — GISS

land: absolute difference

Figure legend: CESM1 (blue), GISS (orange)
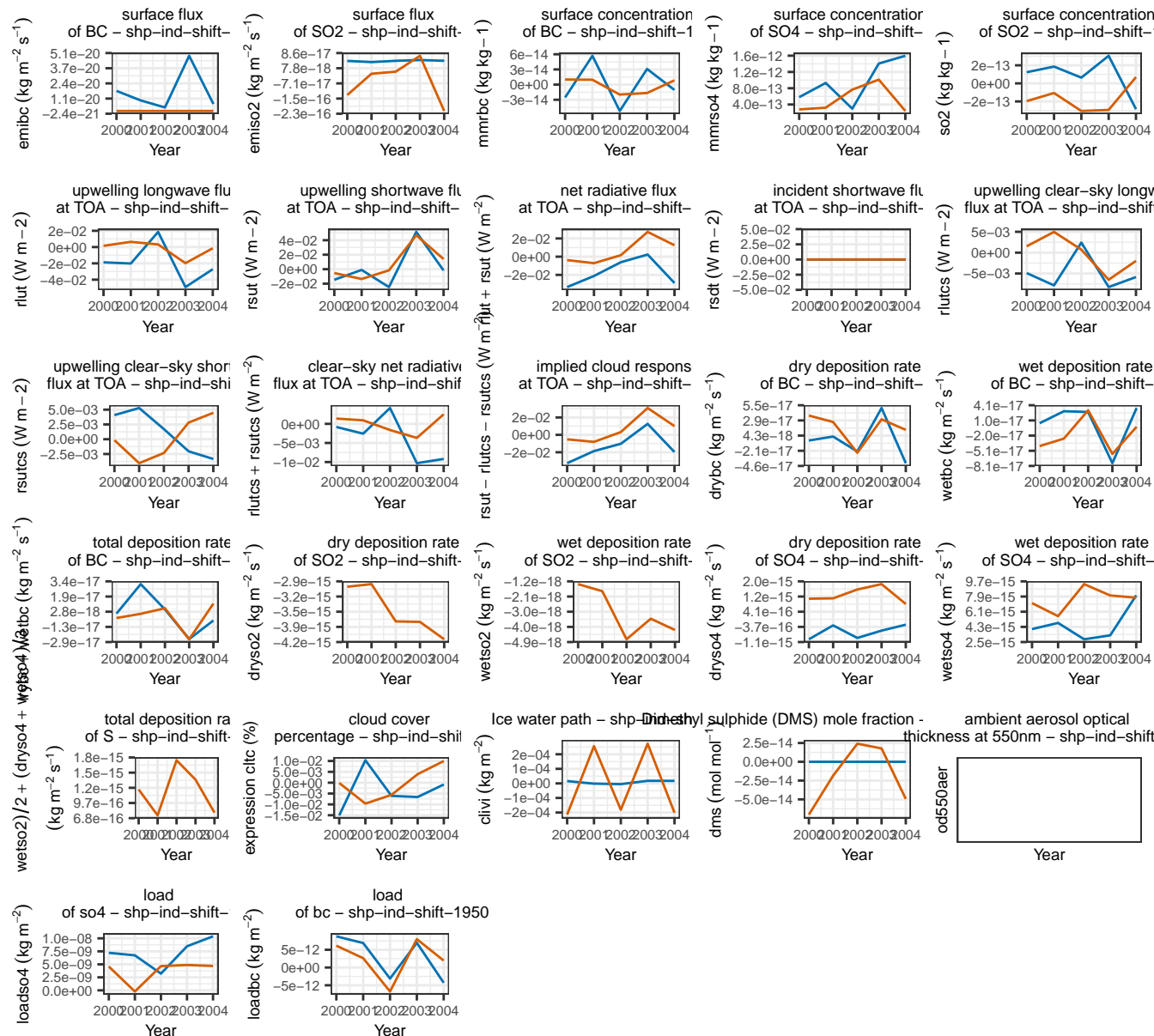
NH−atlantic: absolute difference
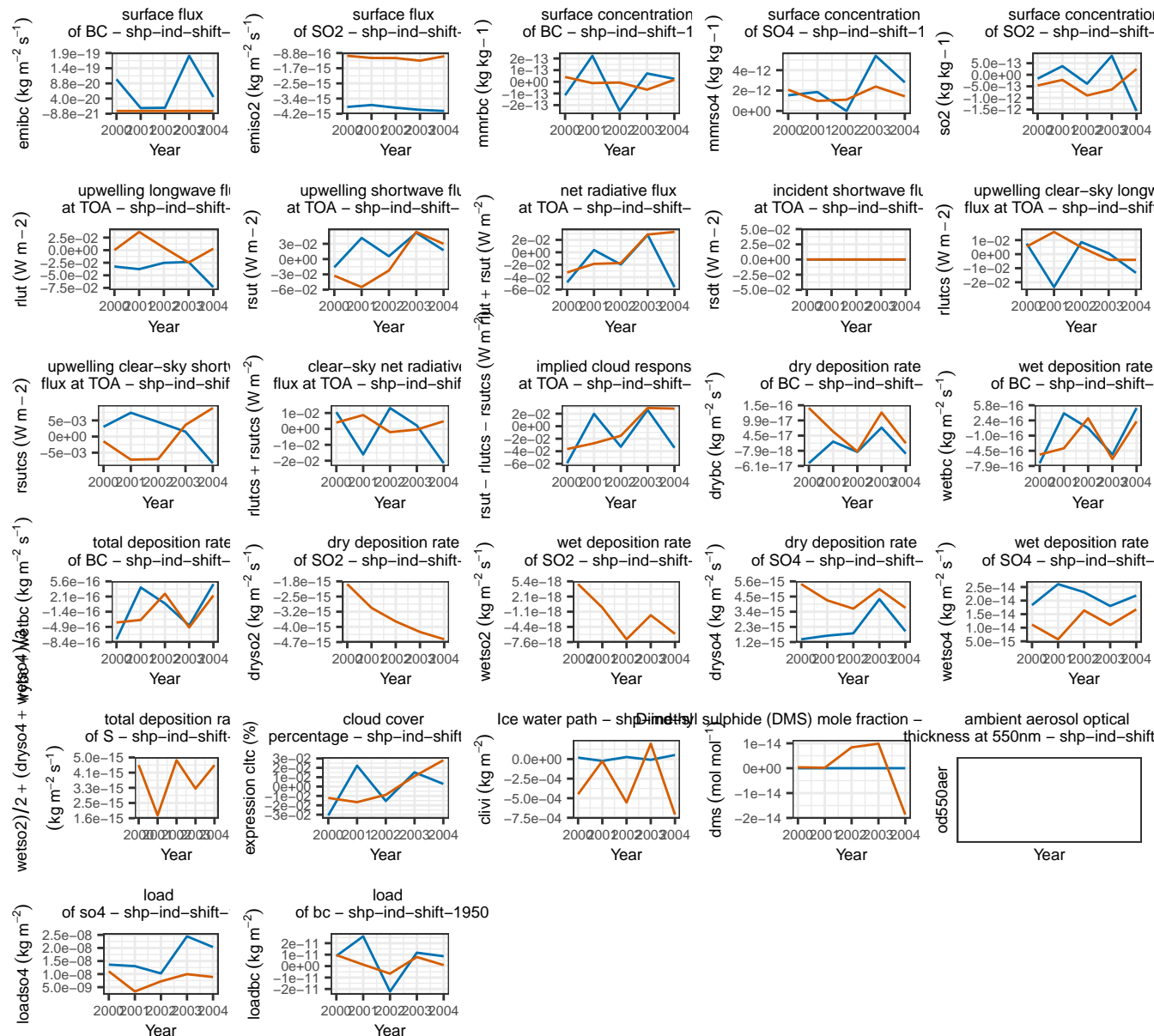

CESM1 ——   GISS ——

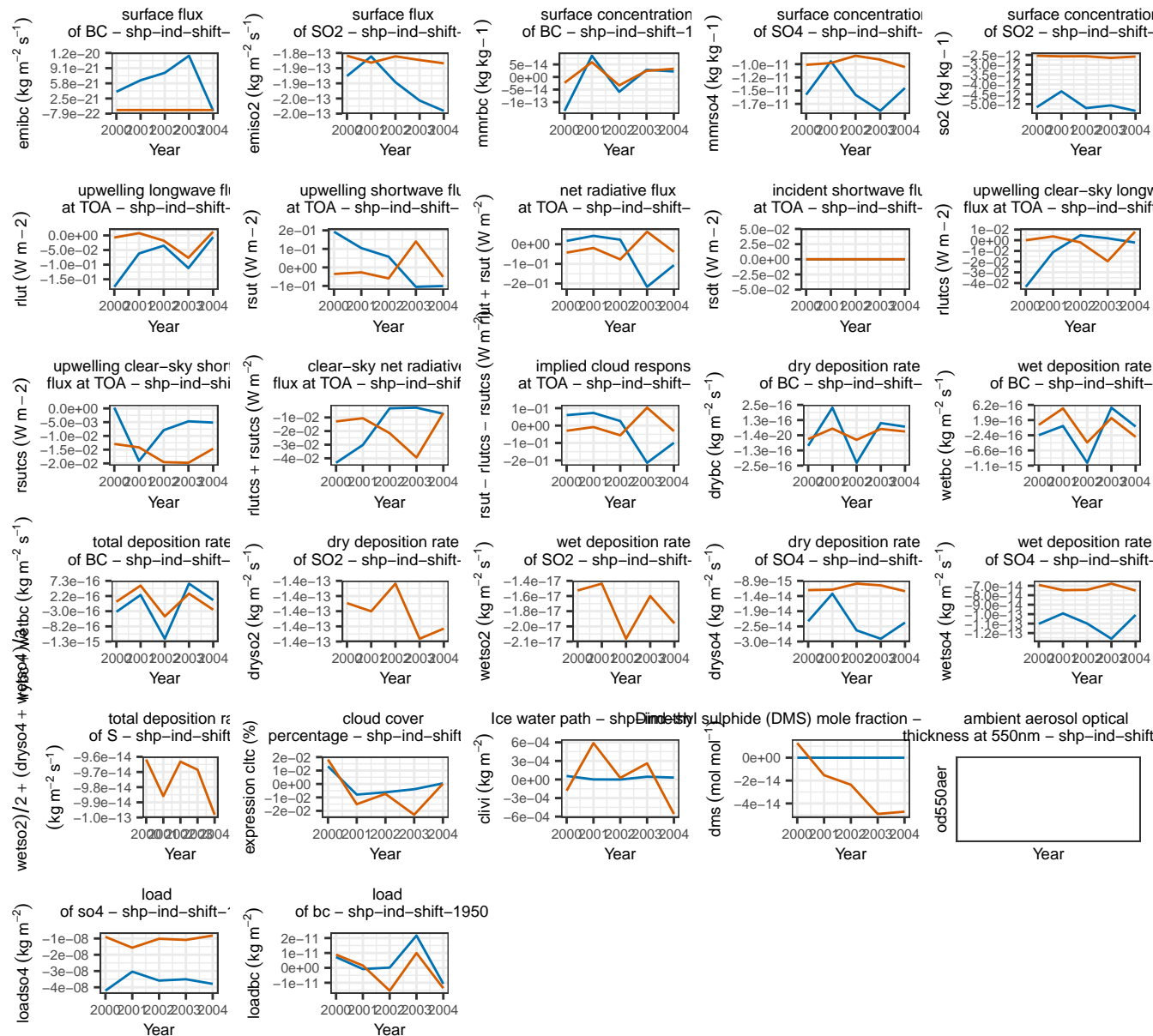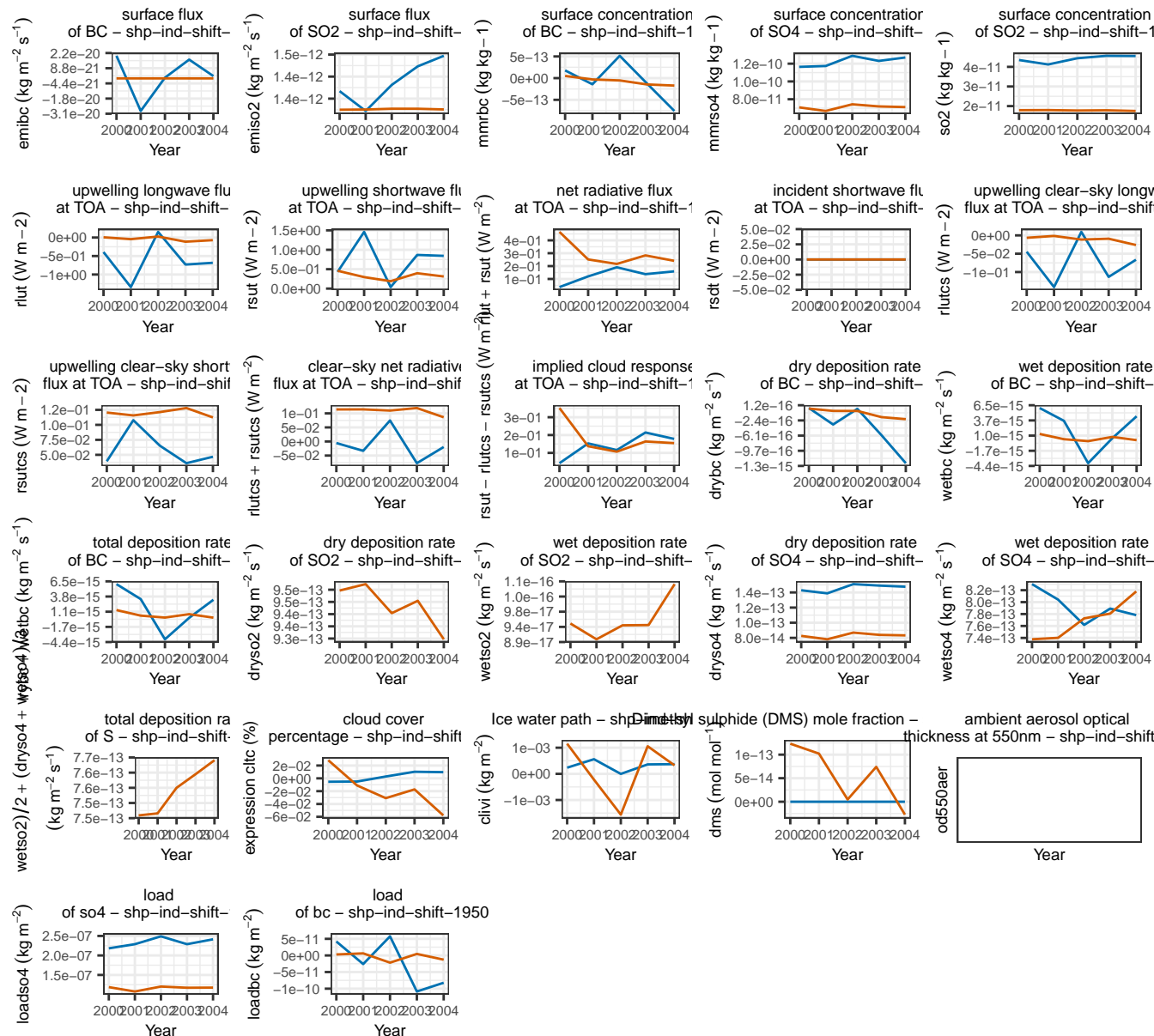# NH−indian: absolute difference

CESM1 — GISS

NH–land: absolute difference
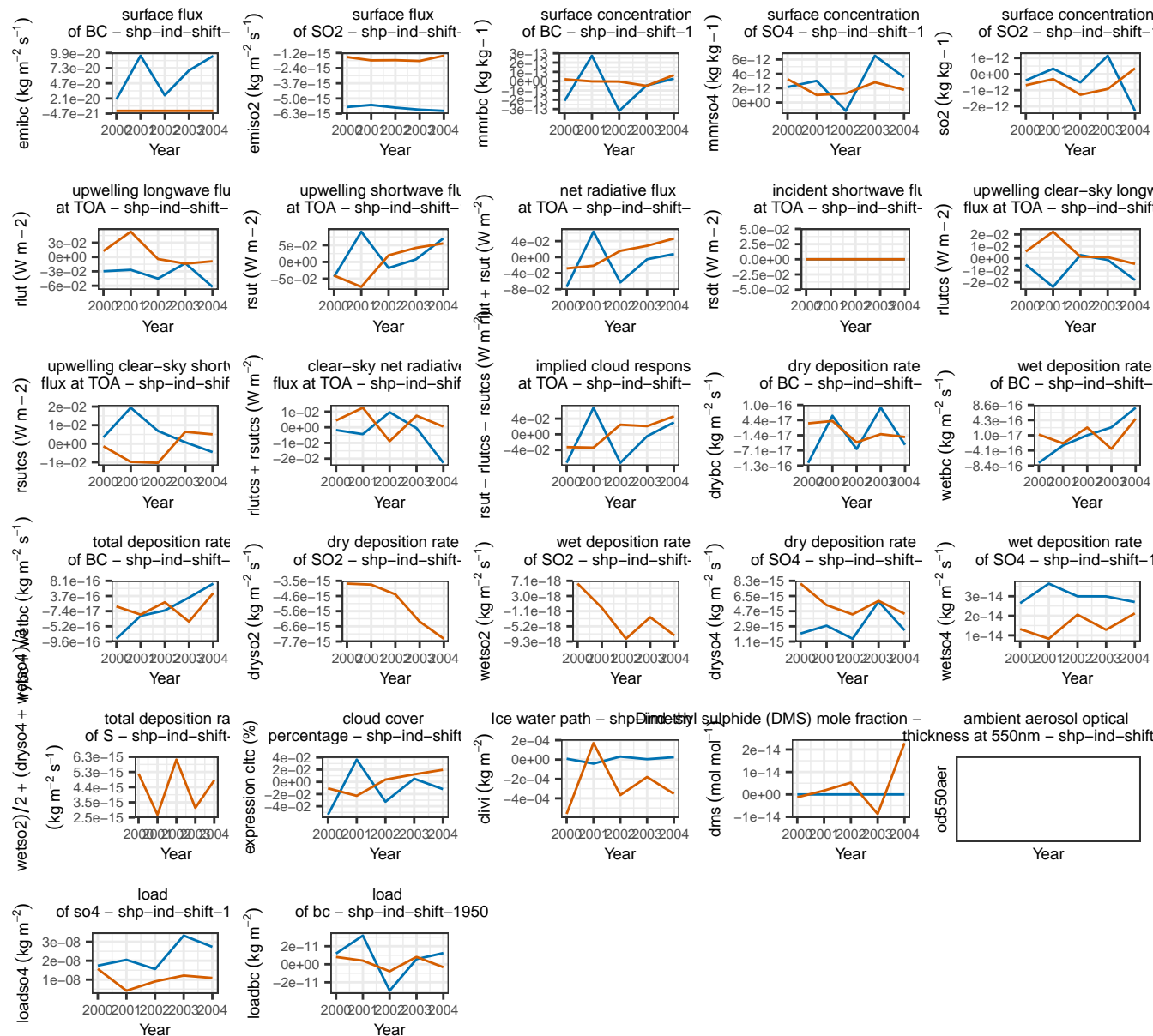
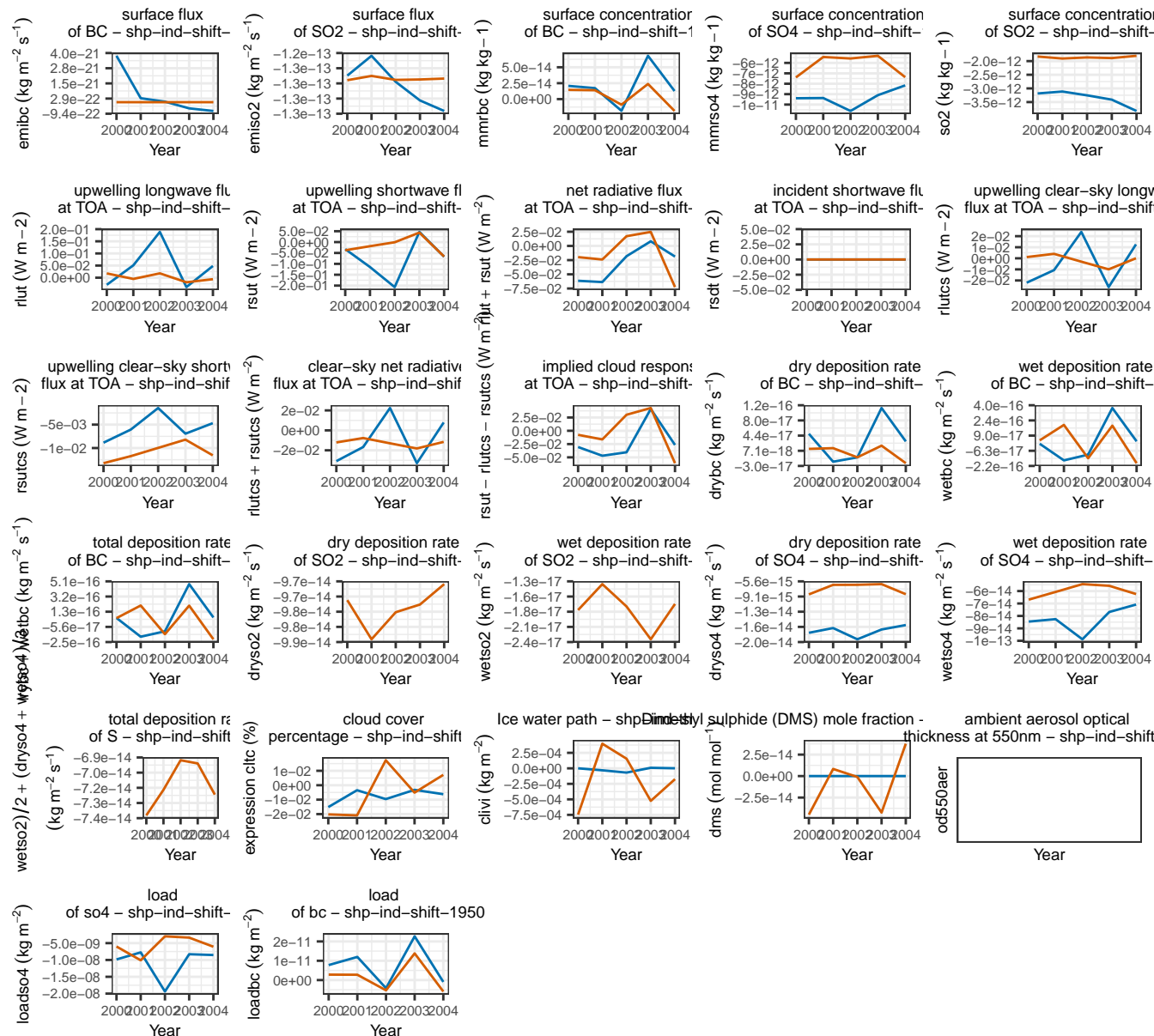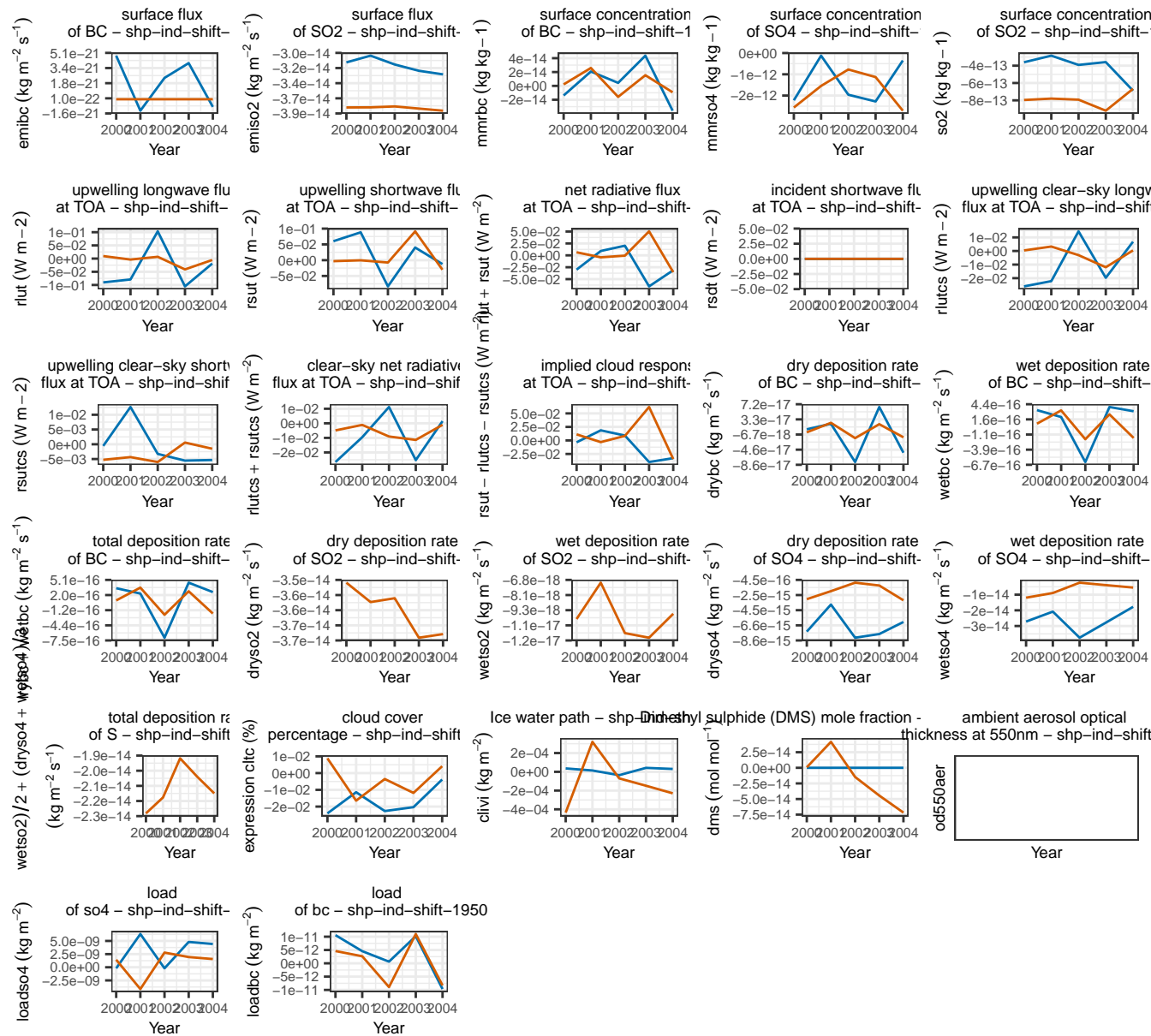# NH−pacific: absolute difference

NH–sea: absolute difference

Legend: CESM1, GISS

sea: absolute difference

surface flux of BC – shp–ind–shift– (emibc, kg m⁻² s⁻¹)
surface flux of SO2 – shp–ind–shift– (emiso2, kg m⁻² s⁻¹)
surface concentration of BC – shp–ind–shift–1 (mmrbc, kg kg⁻¹)
surface concentration of SO4 – shp–ind–shift– (mmrso4, kg kg⁻¹)
surface concentration of SO2 – shp–ind–shift– (so2, kg kg⁻¹)

upwelling longwave flux at TOA – shp–ind–shift– (rlut, W m⁻²)
upwelling shortwave flux at TOA – shp–ind–shift– (rsut, W m⁻²)
net radiative flux at TOA – shp–ind–shift– (rlut + rsut, W m⁻²)
incident shortwave flux at TOA – shp–ind–shift– (rsdt, W m⁻²)
upwelling clear–sky longwave flux at TOA – shp–ind–shi (rlutcs, W m⁻²)

upwelling clear–sky shortwave flux at TOA – shp–ind–shif (rsutcs, W m⁻²)
clear–sky net radiative flux at TOA – shp–ind–shif (rlutcs + rsutcs, W m⁻²)
implied cloud response at TOA – shp–ind–shift– (rsut − rlutcs − rsutcs, W m⁻²)
dry deposition rate of BC – shp–ind–shift– (drybc, kg m⁻² s⁻¹)
wet deposition rate of BC – shp–ind–shift– (wetbc, kg m⁻² s⁻¹)

total deposition rate of BC – shp–ind–shift– (wetbc + drybc, kg m⁻² s⁻¹)
dry deposition rate of SO2 – shp–ind–shift– (dryso2, kg m⁻² s⁻¹)
wet deposition rate of SO2 – shp–ind–shift– (wetso2, kg m⁻² s⁻¹)
dry deposition rate of SO4 – shp–ind–shift– (dryso4, kg m⁻² s⁻¹)
wet deposition rate of SO4 – shp–ind–shift– (wetso4, kg m⁻² s⁻¹)

total deposition rate of S – shp–ind–shift (wetso2)/2 + (dryso4 + wetso4 + dryso4 + wetbc)/2, kg m⁻² s⁻¹)
cloud cover percentage – shp–ind–shi (expression cltc (%))
Ice water path – shp–ind–shi (clivi, kg m⁻²)
Dimethyl sulphide (DMS) mole fraction - (dms, mol mol⁻¹)
ambient aerosol optical thickness at 550nm – shp–ind–shift (od550aer)

load of so4 – shp–ind–shift– (loadso4, kg m⁻²)
load of bc – shp–ind–shift–1950 (loadbc, kg m⁻²)
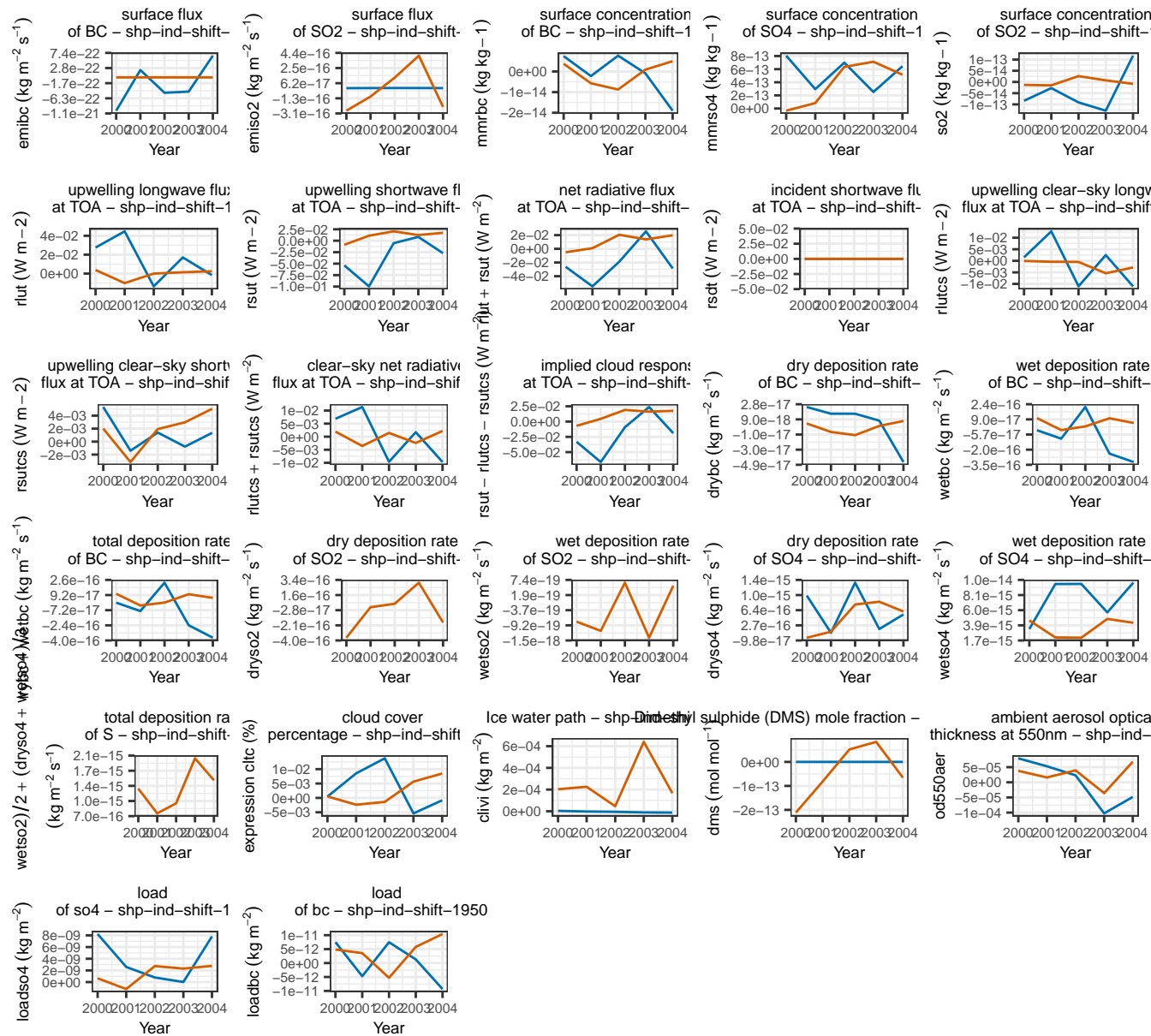
CESM1   GISS

SH–land: absolute difference
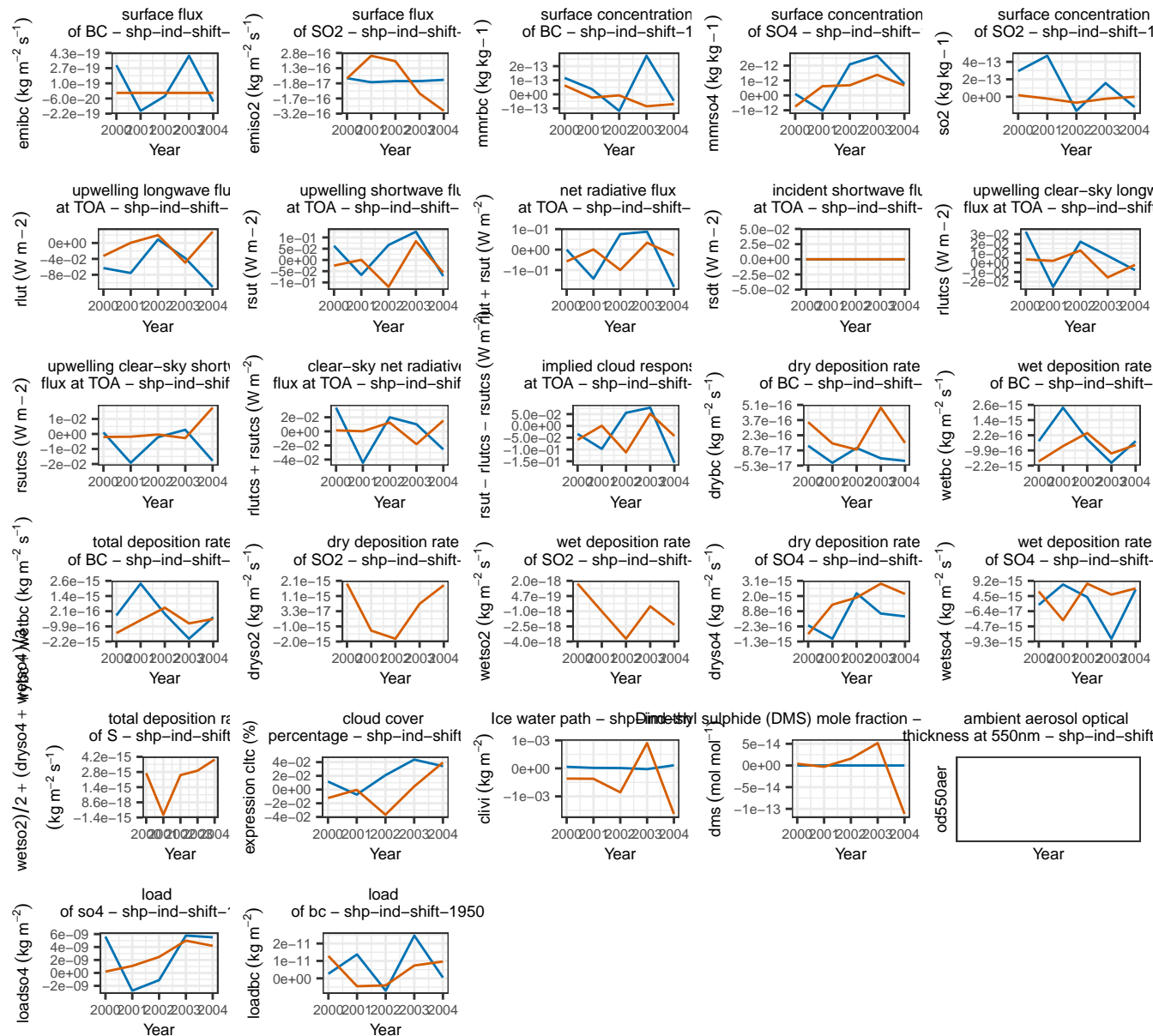
CESM1 — GISS

SH−sea: absolute difference

CESM1   GISS