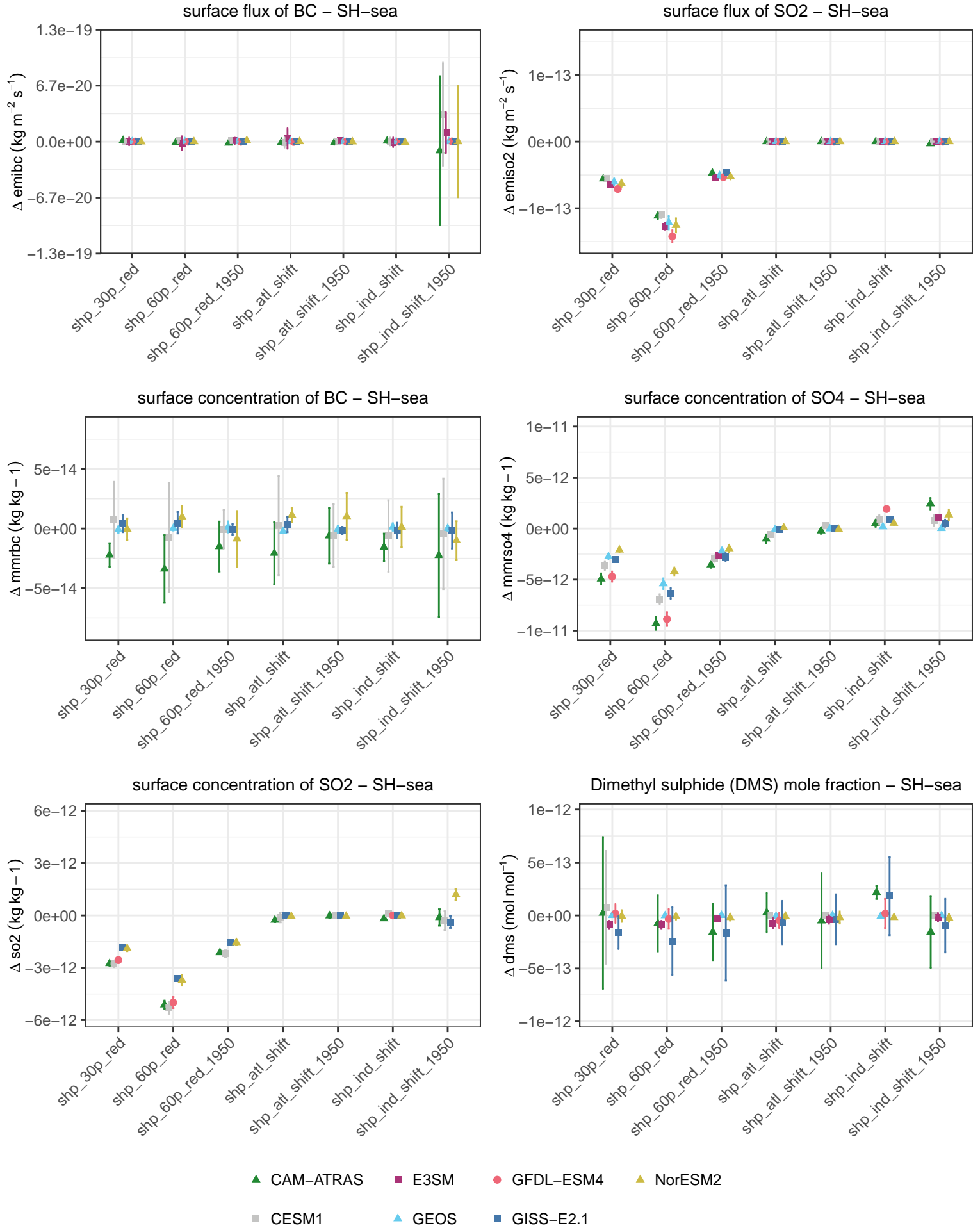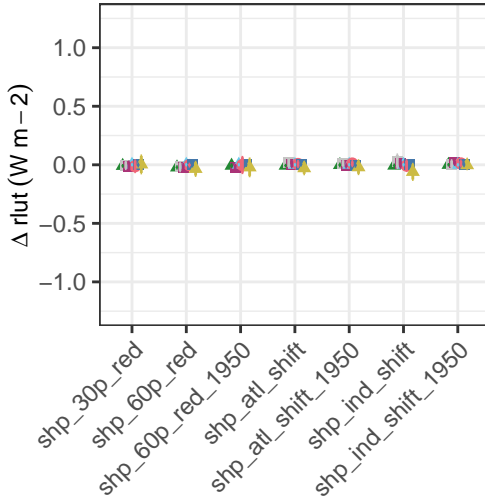Summary – absolute difference
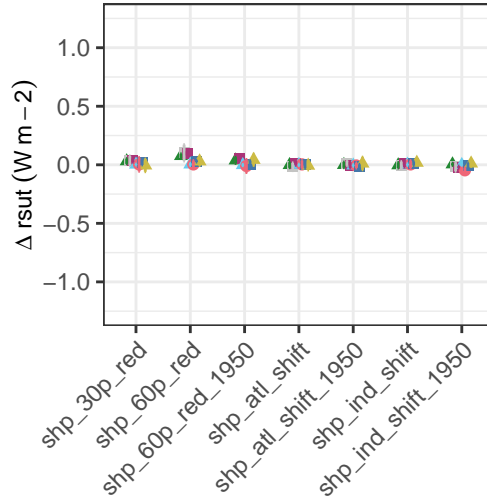
Summary – absolute difference

upwelling longwave flux at TOA – SH–sea

upwelling shortwave flux at TOA – SH–sea

net radiative flux at TOA – SH–sea

clear–sky net radiative flux at TOA – SH–sea

implied cloud response at TOA – – SH–sea

incident shortwave flux at TOA – SH–sea

upwelling clear–sky longwave flux at TOA – SH–sea

upwelling clear–sky shortwave flux at TOA – SH–sea

▲ CAM–ATRAS ■ E3SM ● GFDL–ESM4 ▲ NorESM2
■ CESM1 ▲ GEOS ■ GISS–E2.1

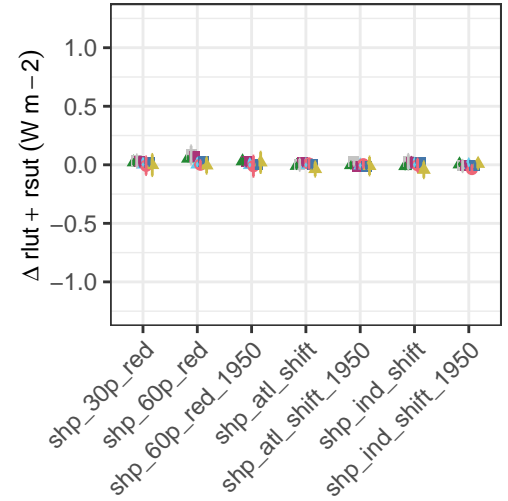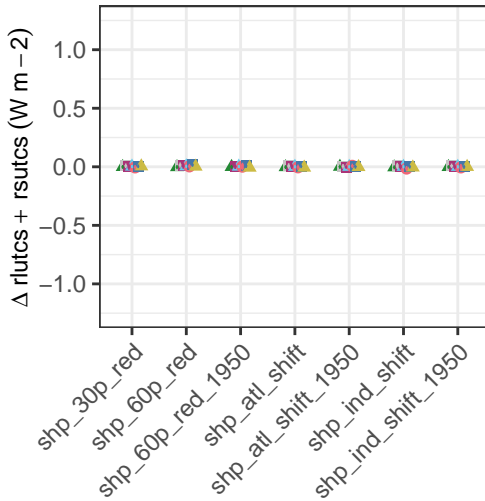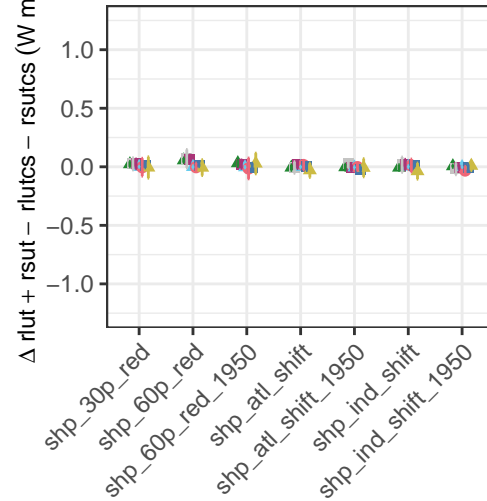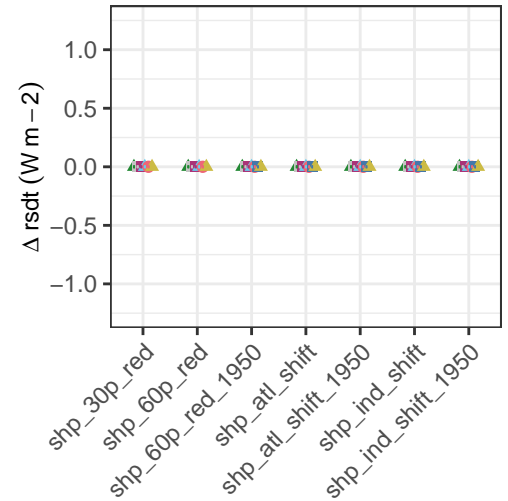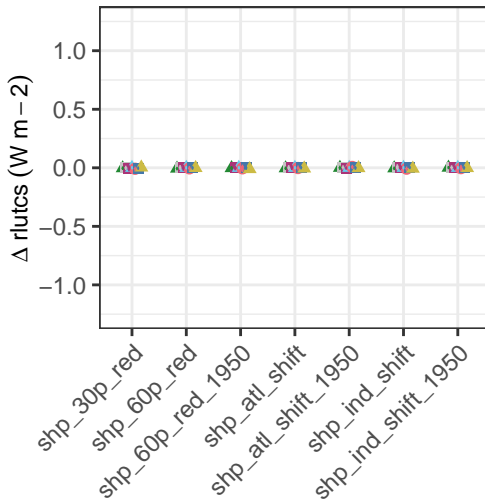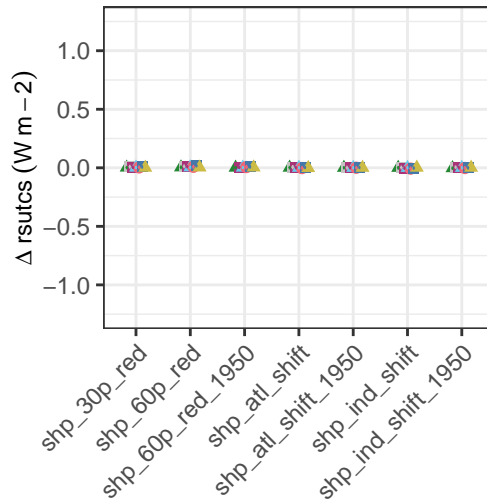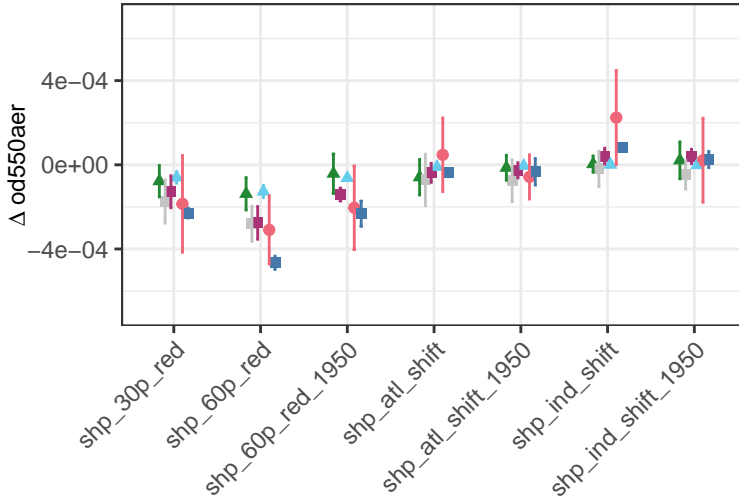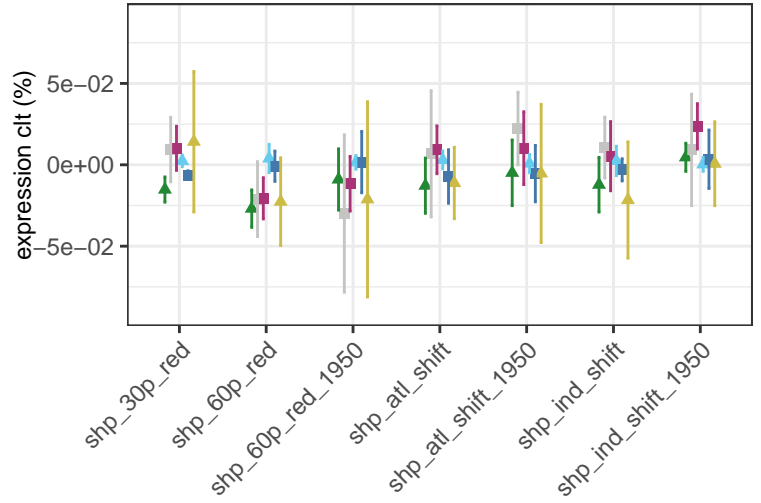Summary – absolute difference

Summary – absolute difference

Figure panels:

- dry deposition rate of BC – SH–sea — Δ drybc ($kg\ m^{-2}\ s^{-1}$)
- wet deposition rate of BC – SH–sea — Δ wetbc ($kg\ m^{-2}\ s^{-1}$)
- total deposition rate of BC – SH–sea — Δ drybc + wetbc ($kg\ m-2\ s-1$)
- dry deposition rate of so2 – SH–sea — Δ dryso2 ($kg\ m^{-2}\ s^{-1}$)
- wet deposition rate of so2 – SH–sea — Δ wetso2 ($kg\ m^{-2}\ s^{-1}$)
- dry deposition rate of so4 – SH–sea — Δ dryso4 ($kg\ m^{-2}\ s^{-1}$)
- wet deposition rate of so4 – SH–sea — Δ wetso4 ($kg\ m^{-2}\ s^{-1}$)
- total deposition rate of S – SH–sea — (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3 ($kg\ m^{-2}\ s^{-1}$)

x-axis categories: shp_30p_red, shp_60p_red, shp_60p_red_1950, shp_atl_shift, shp_atl_shift_1950, shp_ind_shift, shp_ind_shift_1950

Legend: CAM–ATRAS, E3SM, GFDL–ESM4, NorESM2, CESM1, GEOS, GISS–E2.1

Summary – absolute difference

load of bc – SH–sea

load of so2 – SH–sea

load of so4 – SH–sea

SO4 lifetime – – SH–sea

SO2 lifetime – – SH–sea
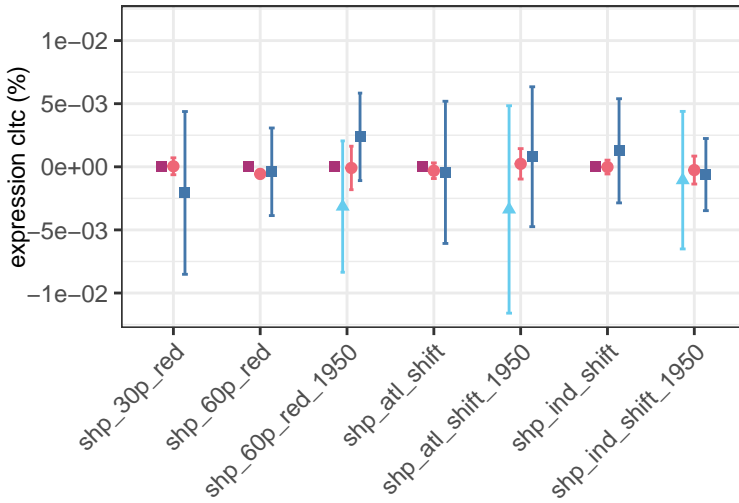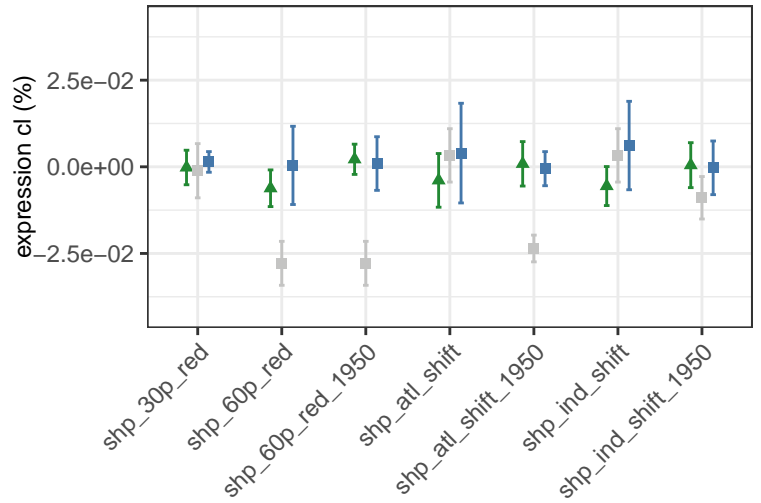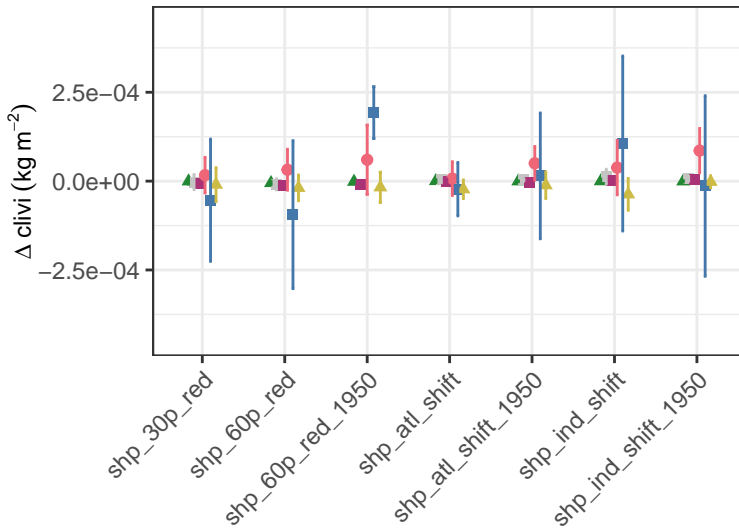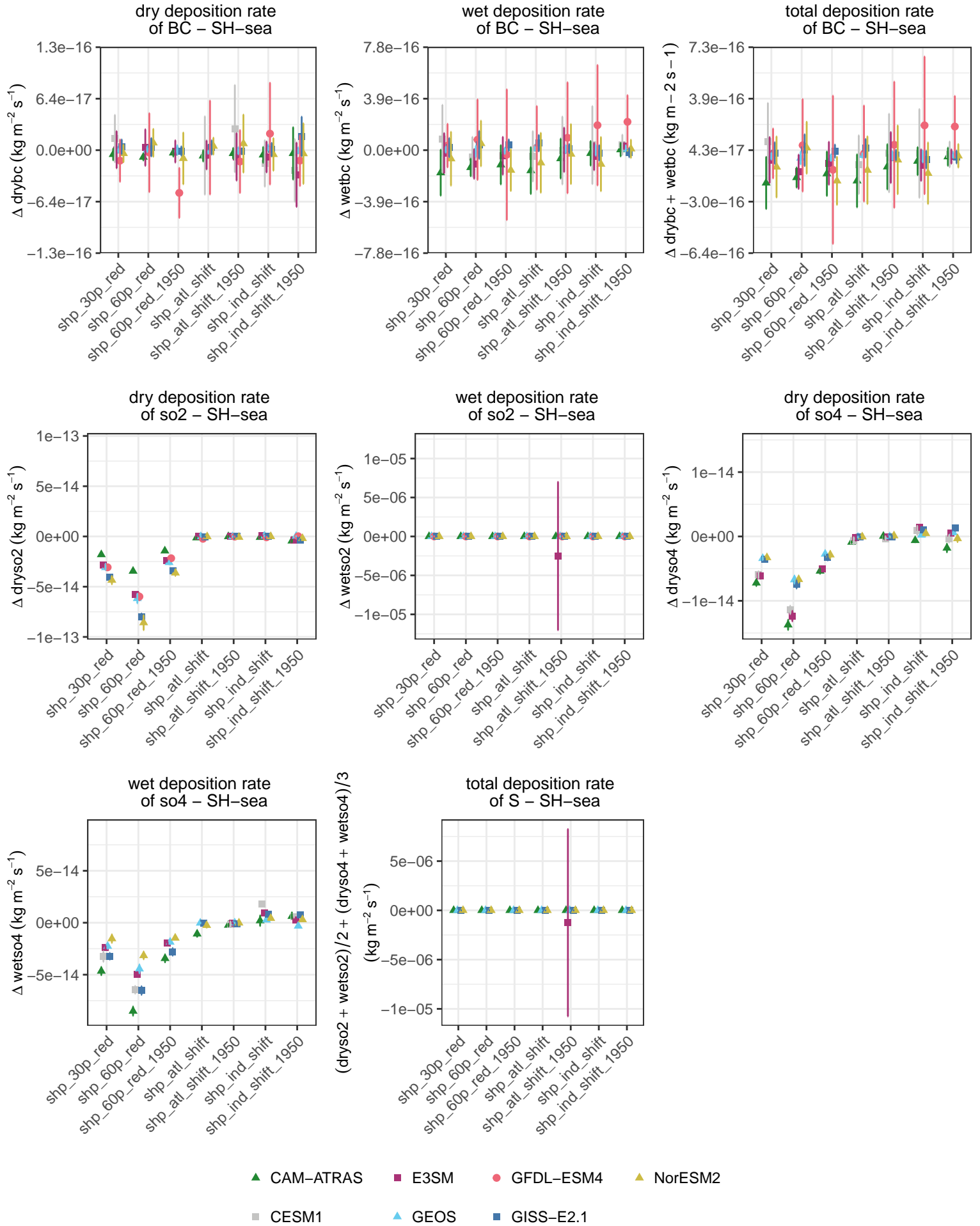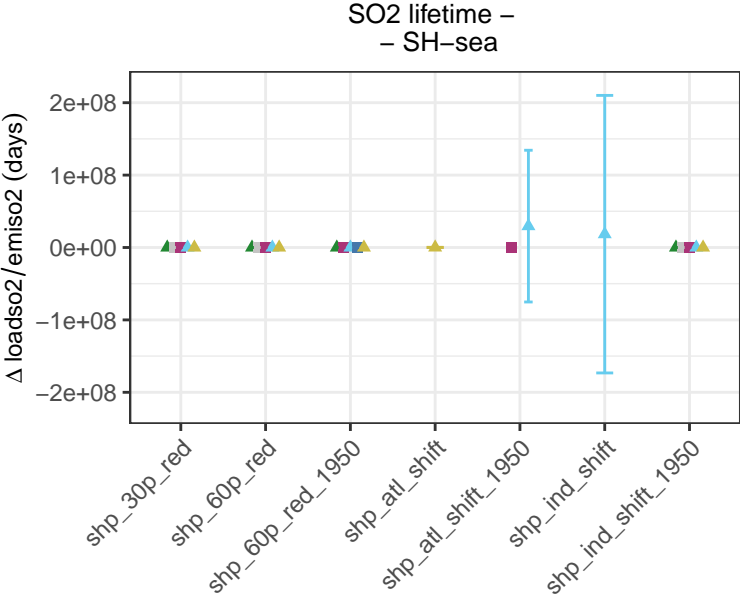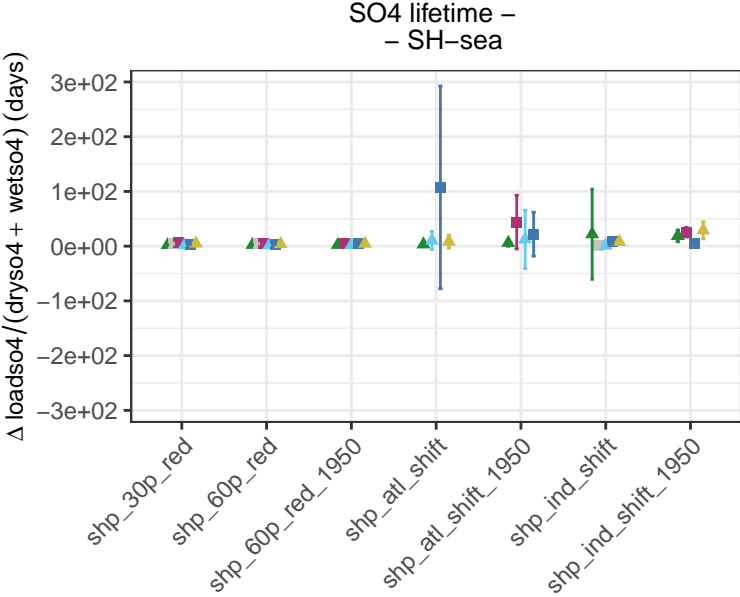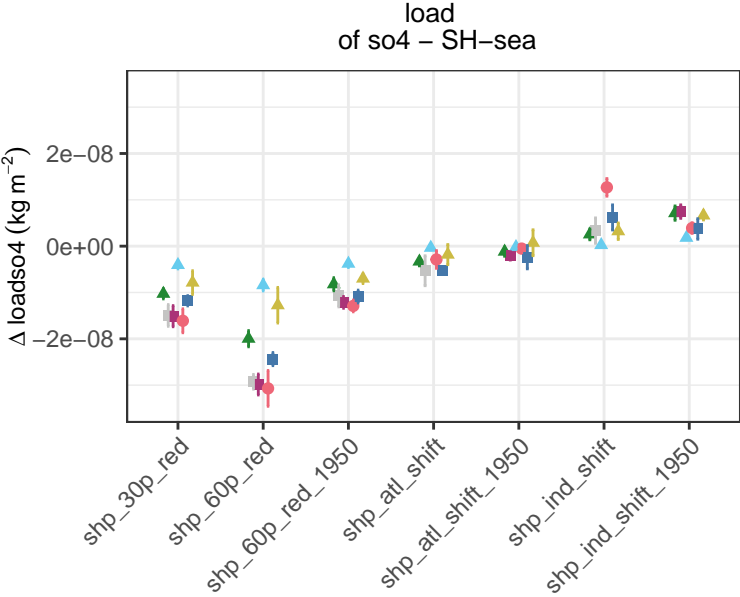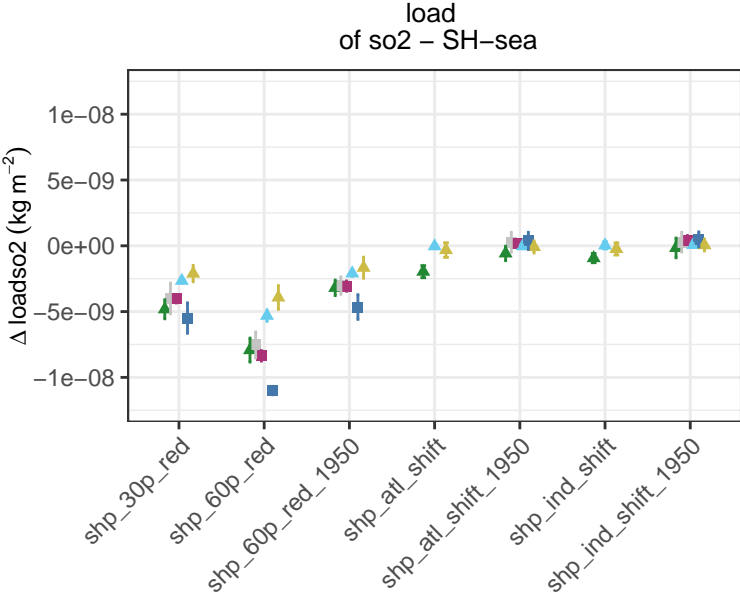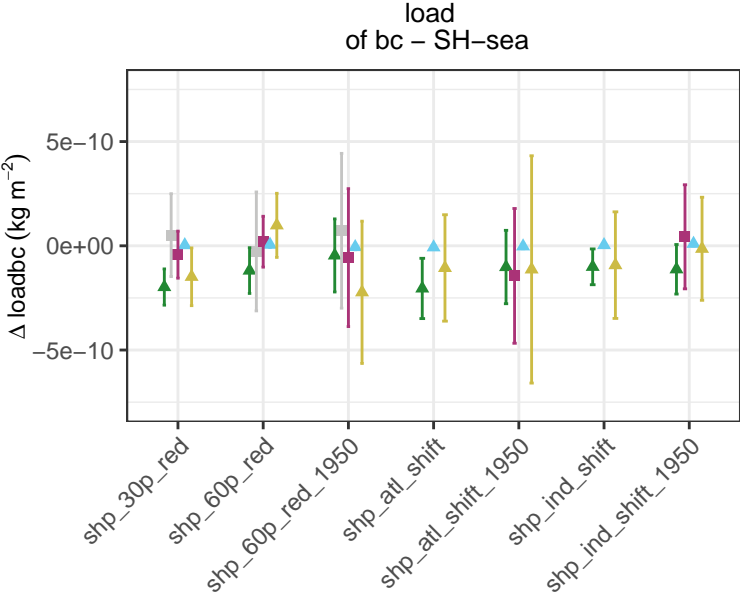
CAM–ATRAS   CESM1   E3SM   GEOS   NorESM2

Summary – absolute difference

Legend: CAM-ATRAS, E3SM, GFDL-ESM4, NorESM2, CESM1, GEOS, GISS-E2.1