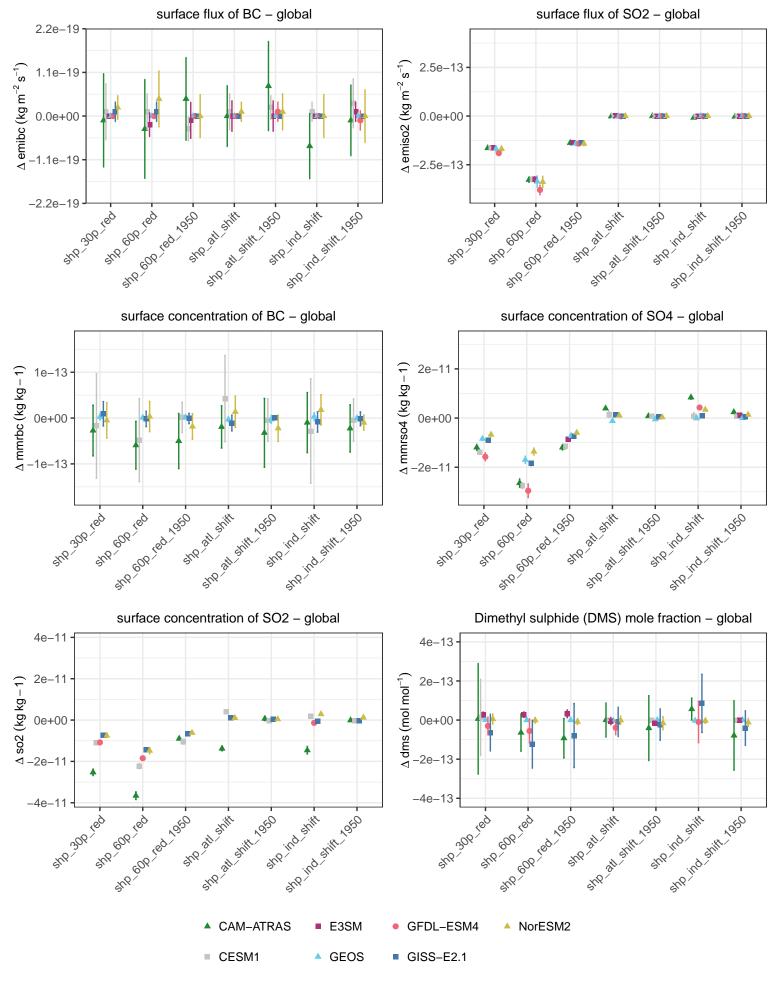
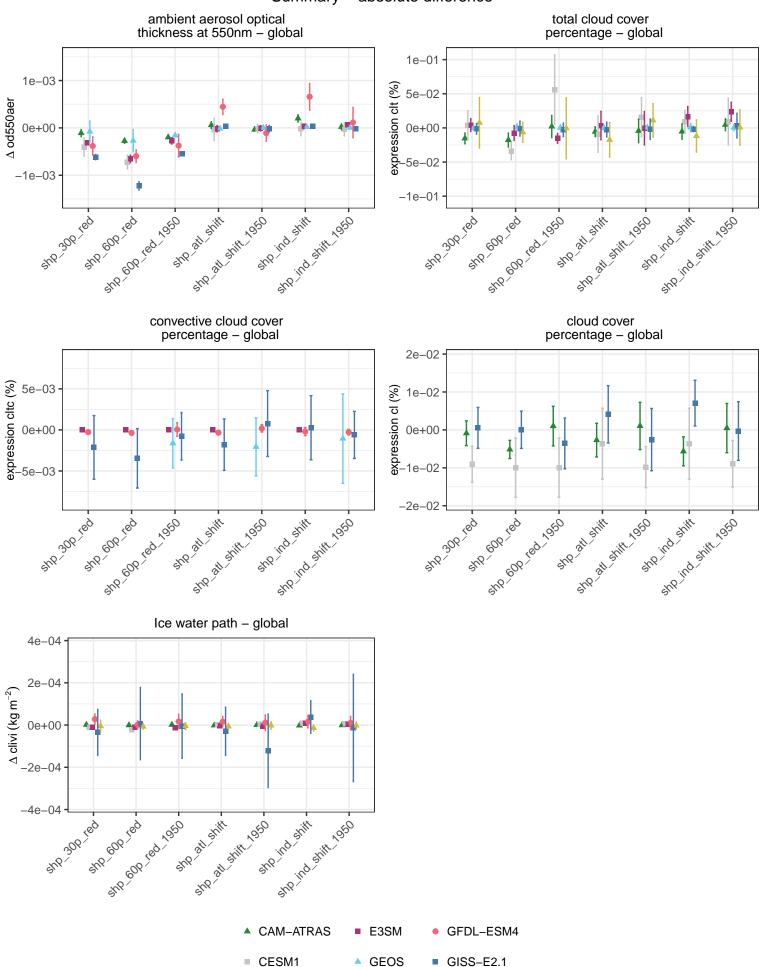
Summary – absolute difference



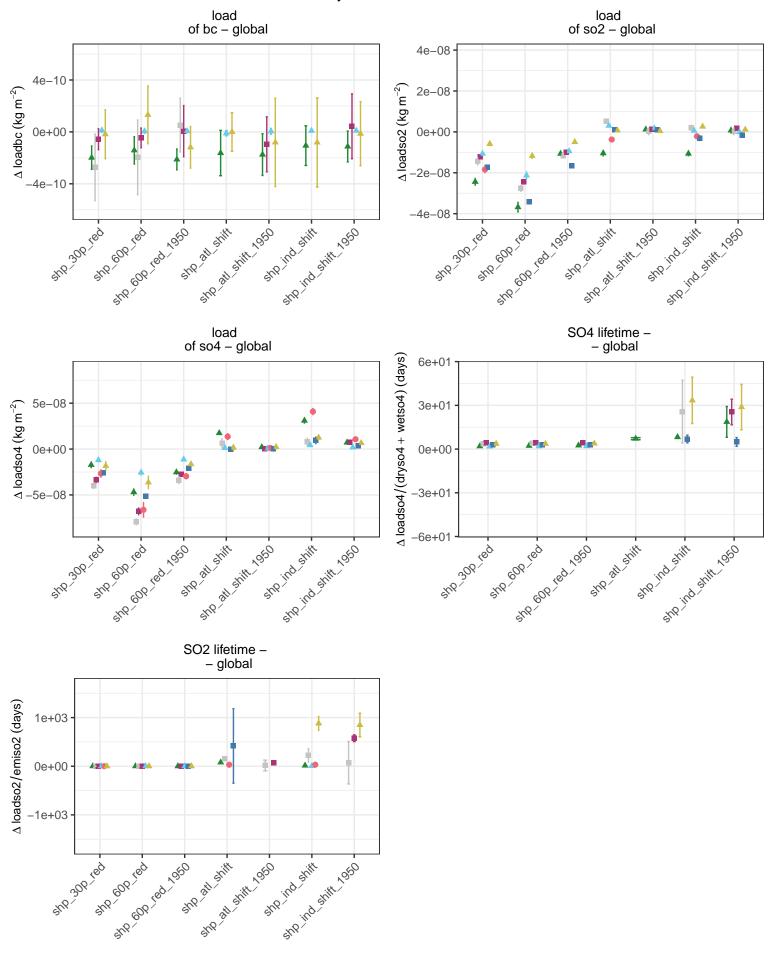
Summary – absolute difference upwelling longwave flux upwelling shortwave flux net radiative flux at TOA - global at TOA - global at TOA - global 1.0 1.0 1.0 Δ rlut + rsut (W m – 2) $\Delta \operatorname{rsut}(\operatorname{Wm}-2)$ Δ rlut (W m – 2) 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 -0.50.5-1.0-1.0-1.0+10 600 red 1950 sho ind shift 1950 +10 600 red 1950 sto all stift, 1950 sho ind shift 1950 310 600 red 1950 sho ind shift 1950 STR SIL STILL JOSO stip all stift. Jose snP att shift she ind shift snP at shift she ind shift STP at Stift she ind shift sub en lag Sub log sub en lag clear-sky net radiative flux implied cloud response at TOA incident shortwave flux at TOA - global global at TOA - global Δ rlut + rsut - rlutcs - rsutcs (W m⁻²) Δ rlutcs + rsutcs (W m – 2) 1.0 1.0 1.0 $\Delta \operatorname{rsdt} (\operatorname{Wm} - 2)$ 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 -0.5 -0.5 -1.01.0 -1.0SHO ALL SHIP. 1950 +10 600 Fed 1950 +10 600 led 1950 arry and Stiff 1950 Str. Ind Stift 1950 and one and and sho ind shift 1950 Sto ind shift 1950 snP ind shift STR 3H SHIP, 1950 snP at shift sno ind shift snP att shift she ind shift Sub end leg STR all STIFF and end tog Sub Edd Teg upwelling clear-sky shortwave upwelling clear-sky longwave flux at TOA - global flux at TOA - global 1.0 1.0 $\Delta \operatorname{rsutcs} (\operatorname{Wm} - 2)$ Δ rlutcs (W m-2) 0.5 0.5 0.0 0.0 -0.5 -0.5 -1.0-1.0+10 600 red 1050 SHP all SHIP. sho ind shift 1950 +10 600 red 1050 SHO All SHIP. JOSO stopind shift 1950 STR at Shift she ind shift she jud shift sub eab ing snP at shift sub 300 leg sub en leg CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

Summary - absolute difference



Summary – absolute difference dry deposition rate wet deposition rate total deposition rate of BC - global of BC - global of BC – global 2.3e-16 2e-16 1.8e-16 Δ drybc + wetbc (kg m – 2 s – 1) Δ drybc (kg m⁻² s⁻¹) Δ wetbc (kg m⁻² s⁻¹) 1.1e-16 8.8e-17 1e-16 0e+00 0.0e + 002.7e-19 1.1e-16 1e-16 8.8e-17 314 600 181 1950 -SHO IND SHIP JOSO 3114 600 184 1850 ... Sur ind stift 1950 + 600 ted 1050 STR 201 STILL STR sho ind shift 1950 STO STILL STATE STATE she ind shift -2.3e-16 sub 300 leg -2e-16 \$10³⁰⁰ teq -1.8e-16 stre 300 teg dry deposition rate wet deposition rate dry deposition rate of so2 - global of so2 - global of so4 - global 1e-05 2e-13 Δ dryso2 (kg m⁻² s⁻¹) Δ wetso2 (kg m⁻² s⁻¹) Δ dryso4 (kg m $^{-2}$ s $^{-1}$) 2.5e-14 5e-06 1e-13 0e+00 0e+00 0.0e + 001e-13 -5e-06 2.5e-14 -2e-13 -1e-05 SHO A SHIP LAND 314,600 led 1,020 Sto of Stiff 1950 318 600 Fed 1950 314/80 /84/860 / sir ind shift 1950 and ind shift 1950 she ind shirt 1950 , 600 leg she ind shift SIRP att Stiff sno ind shift sto 300 teg (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3wet deposition rate total deposition rate of so4 - global of S – global 2e-13 1e-05 Δ wetso4 (kg m⁻² s⁻¹) 1e-13 5e-06 $(kg m^{-2} s^{-1})$ 0e+00 0e+00 1e-13 -5e-06 SHO SHE SHE IND SHE and of starting string, and of starting of -2e-13 SW SH SHIP. 4 60 18d 186 Stop ind Shift 1950 sno ind shift SHO IN SHIP DED -1e-05 sub 300 teg , 606 leg ste 300 ieg CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

Summary - absolute difference



▲ CAM-ATRAS

CESM1

■ E3SM

GEOS

NorESM2

