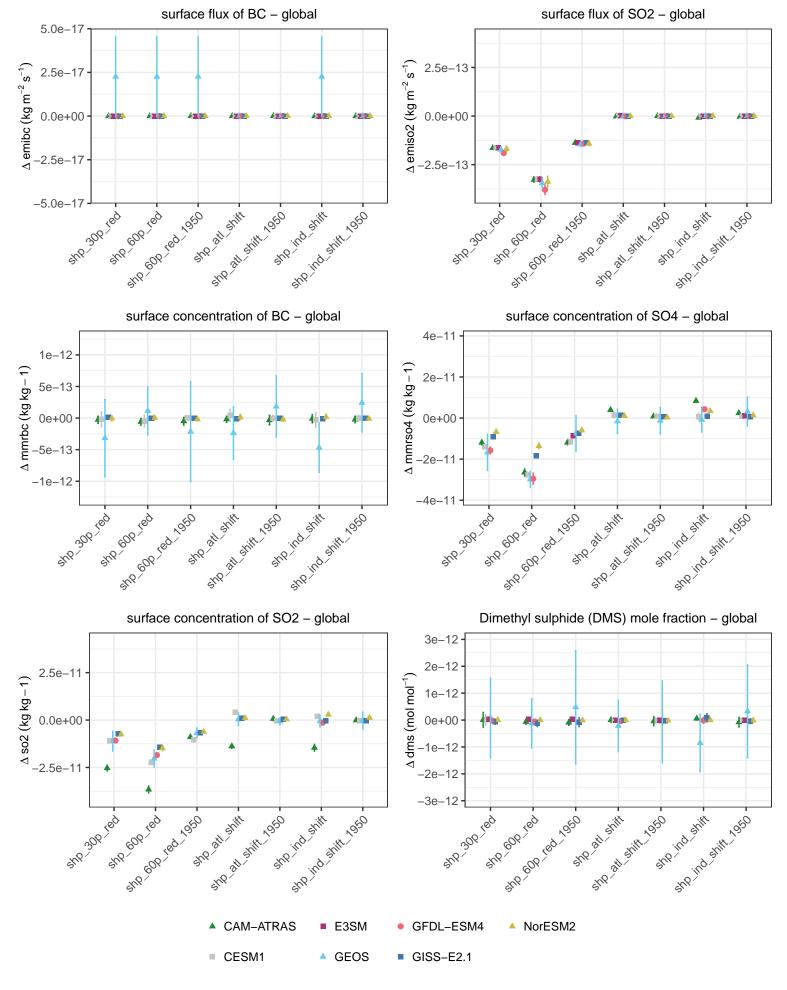
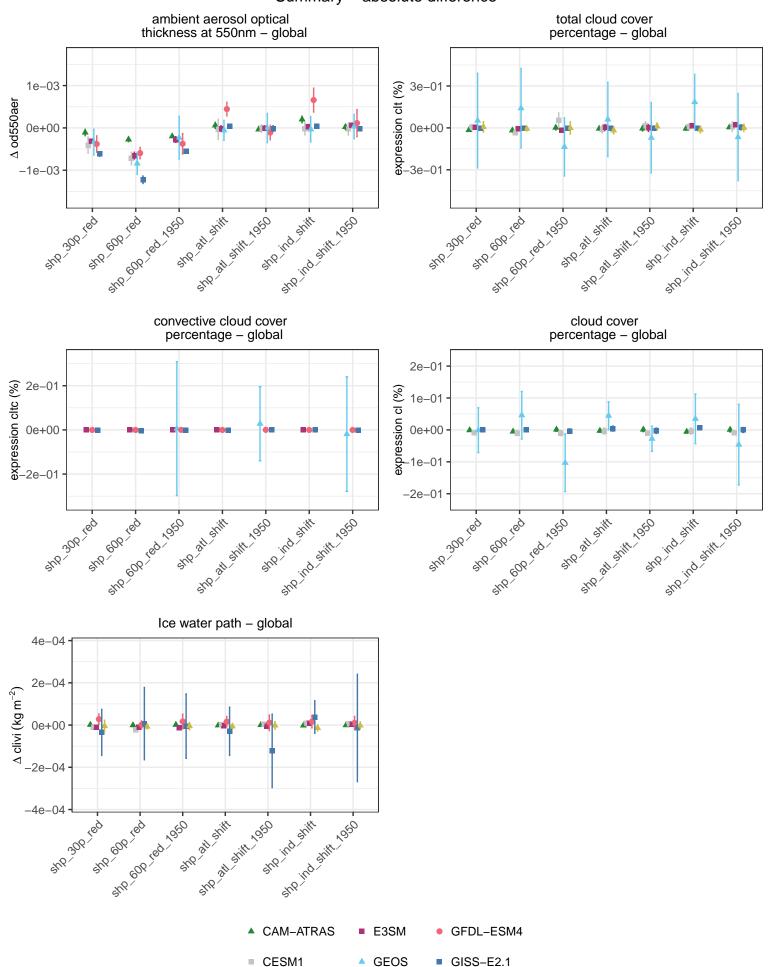
# Summary – absolute difference



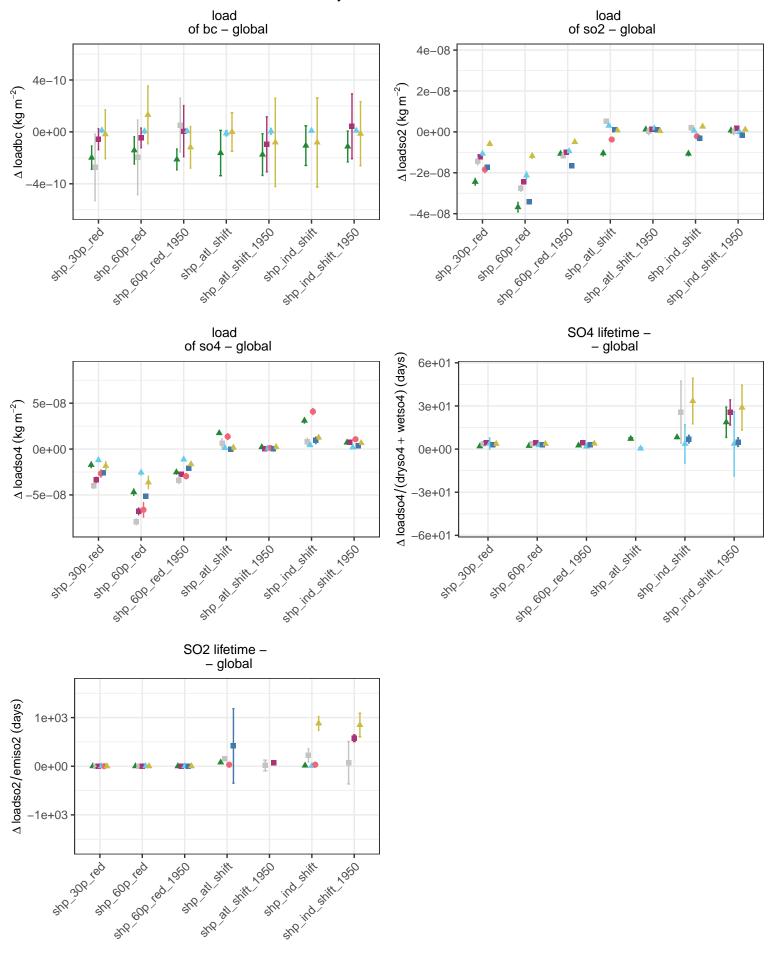
#### Summary – absolute difference upwelling longwave flux upwelling shortwave flux net radiative flux at TOA - global at TOA - global at TOA - global 1.0 1.0 1.0 $\Delta$ rlut + rsut (W m – 2) $\Delta$ rlut (W m – 2) $\Delta \operatorname{rsut}(\operatorname{Wm}-2)$ 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 -0.5 0.5-1.0-1.0-1.0sho 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 she ind shift snP att shift she ind shift snP at shift she ind shift sub 300 leg elb leg snp at shift elb log sub end ing clear-sky net radiative flux implied cloud response at TOA incident shortwave flux at TOA - global global at TOA - global $\Delta$ rlut + rsut - rlutcs - rsutcs (W m<sup>-2</sup>) $\Delta$ 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 led 1950 arry and Stiff 1950 Str. ind Stift 1950 Stopind Shit 1950 +10 600 Fed 1950 STR 3H SHIP, 1950 sho ind shift 1950 STR Ind Shift snP at shift sno ind shift STP all shift she ind shift Sub end leg STR all STIFF \$10<sup>3</sup>90<sup>1</sup>69 sub en leg sub en leg upwelling clear-sky shortwave upwelling clear-sky longwave flux at TOA - global flux at TOA - global 1.0 1.0 $\Delta \operatorname{rsutcs} (\operatorname{Wm} - 2)$ $\Delta$ 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. +10 600 red 1050 SHP all SHIT, Jobo sho ind shift 1950 stopind shift 1950 STR at Shift she ind shift SIRP all SHIFT she jud shift sub 300 leg sub en lag sub en lag 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 2.5e-15 7.6e-15 4.9e-15 $\Delta$ drybc + wetbc (kg m – 2 s – 1) $\Delta$ drybc (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ wetbc (kg m<sup>-2</sup> s<sup>-1</sup>) 1.2e-15 3.8e-15 2.0e-15 0.0e+00 0.0e + 008.2e-16 1.2e-15 3.8e-15 -3.7e–15 STR att Street, and street, an 3.14.600 181. 1950 ... SHO IND SHIP JOSO 214 90 184 1850 T and de distriction of Sur ind stift 1950 and Self Stiff, 1980 sir ind shift 1950 -2.5e-15 \$18° -7.6e-15 ste 300 led -6.5e-15 stp 300 teg dry deposition rate wet deposition rate dry deposition rate of so2 - global of so2 - global of so4 – global 6e-14 2e-13 $\Delta$ dryso2 (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ wetso2 (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ dryso4 (kg m<sup>-2</sup> s<sup>-1</sup>) 4e-14 3e-14 1e-13 0e+00 0e+00 0e+00 3e-14 4e-14 2e-13 SHO A SHIP LAND SIN ON SHIP TO SHIP OF J.1600 181 1850 410 600 fed 1950 Sto St. St. 1989 sir ind shift 1950 sur ind shift 1950 214 90 to 1 SHP ind shift 1950 , 600 leg sho ind shift SIRP att Stiff sno ind shift -6e-14 \$10<sup>300</sup> 100 \$10\ 600\ 160 sing 300 fed (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3wet deposition rate total deposition rate of S - global of so4 - global 3e-13 2e-13 $\Delta$ wetso4 (kg m<sup>-2</sup> s<sup>-1</sup>) 0e+00 1e-13 $(kg m^{-2} s^{-1})$ 0e+00 -1e-13 -1e-13 -2e-13 and on the start of the start o SHO SHE SHE LING SHE NO. SW 3H SHILL -2e-13 40 00 18d 18d Stop ind Shift 1950 sno ind shift SHO IN SHIP DEO -3e-13 sub ing sing 3019 feed SUB LEGA CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

# Summary - absolute difference



▲ CAM-ATRAS

CESM1

■ E3SM

GEOS

NorESM2

