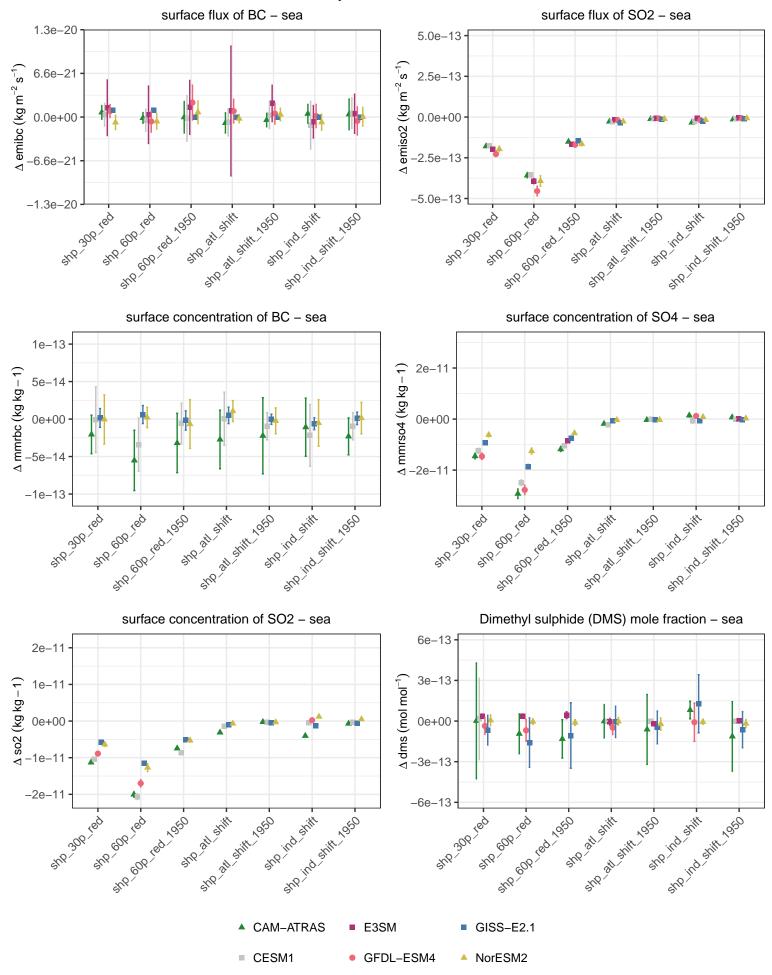
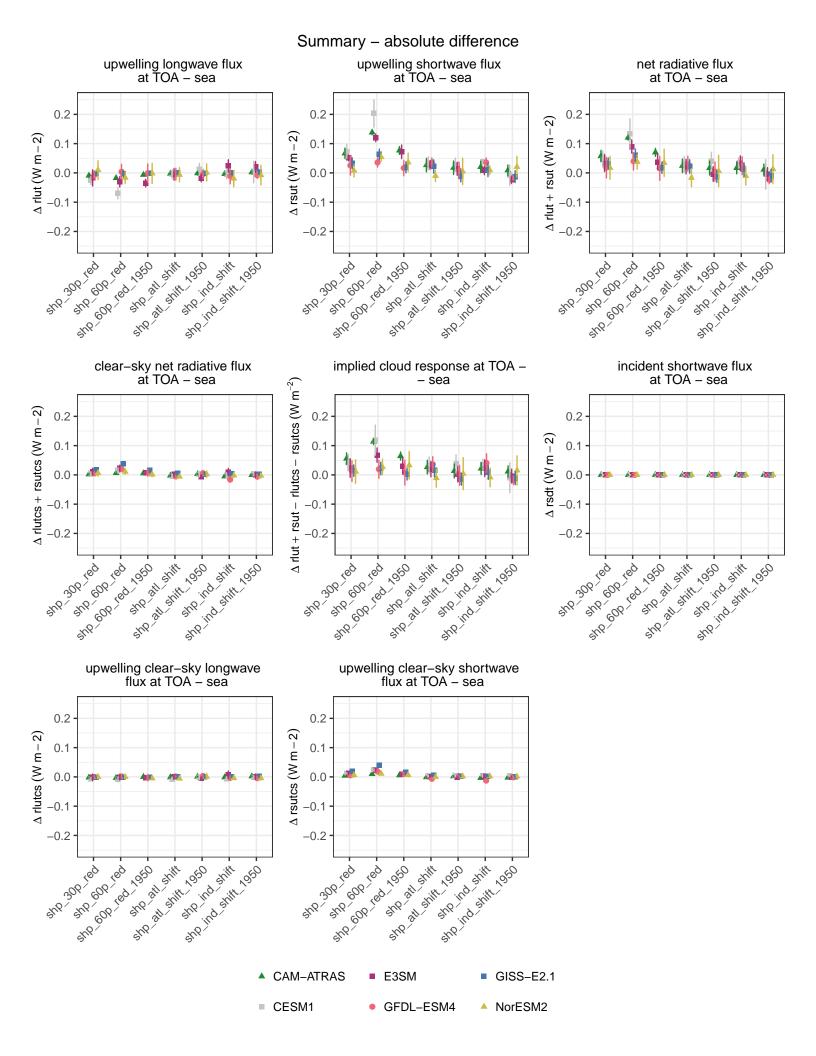
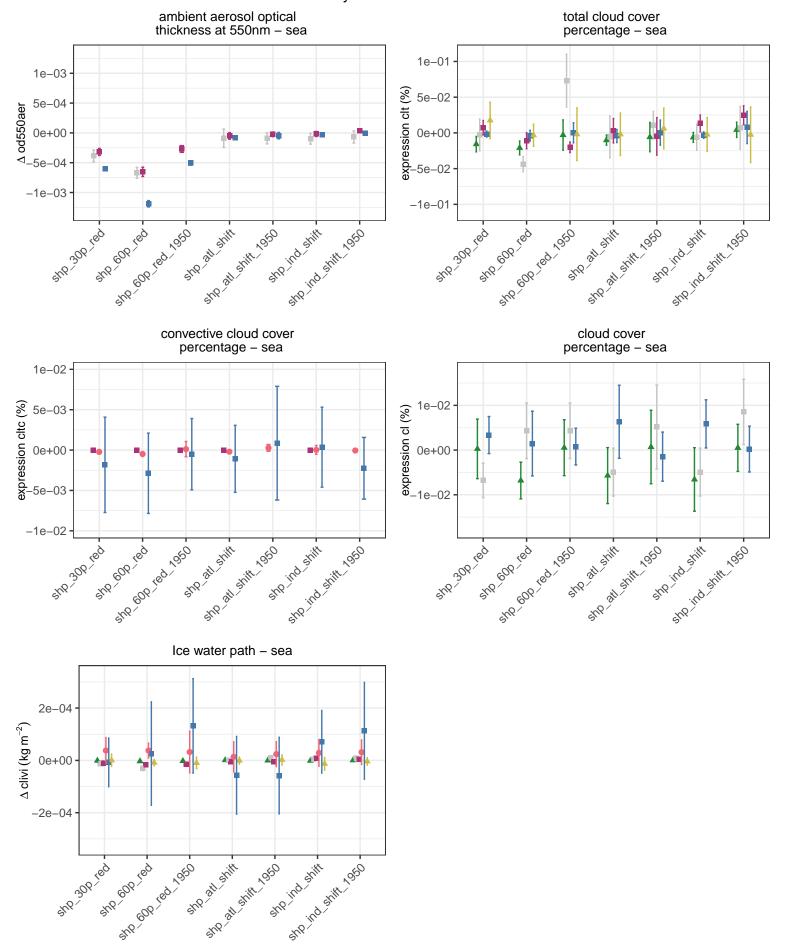
## Summary – absolute difference



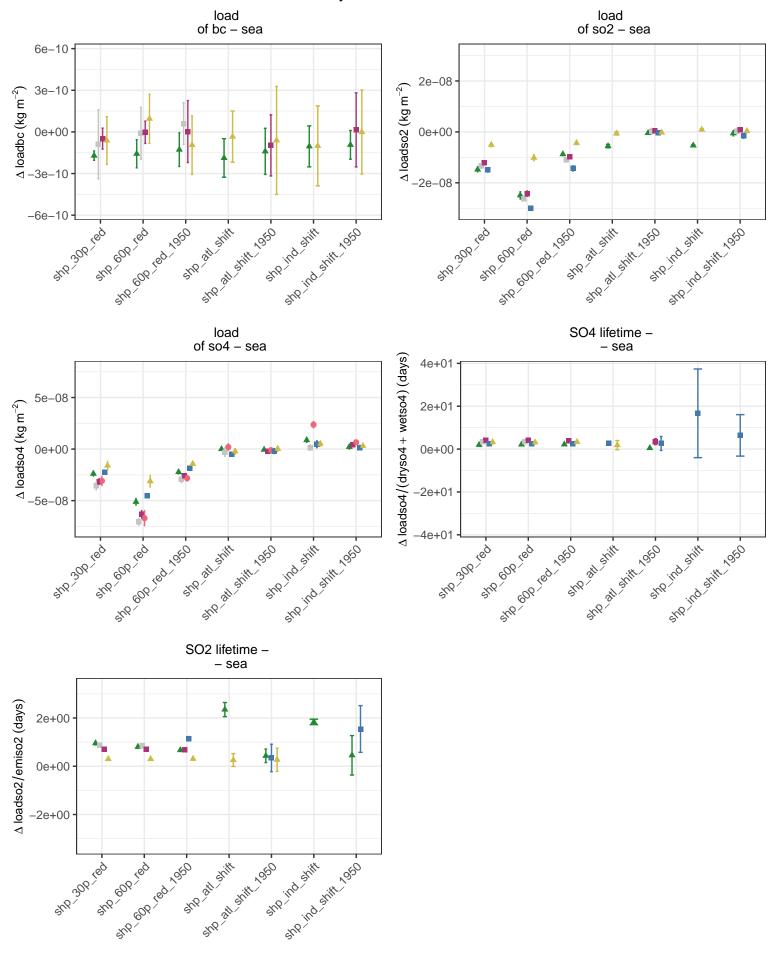


# Summary - absolute difference



#### Summary - absolute difference dry deposition rate wet deposition rate total deposition rate of BC - sea of BC - sea of BC - sea 1.3e-16 6.8e-16 5.4e-16 $\Delta$ 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>) 6.6e-17 3.4e-16 2.9e-16 0.0e+000.0e + 003.2e-17 6.6e-17 3.4e-16 2.2e-16 314 600 181 1950 -Str. or Str. ing SHO IND SHIP JOSO ork of diff. 3114 600 184 1850 ... and off shift 1950 Str. ind Stift 1950 -1.3e-16 sub 300 leg -6.8e-16 ste 300 teg -4.7e-16 stre 300 teg dry deposition rate wet deposition rate dry deposition rate of so2 - sea of so2 - sea of so4 - sea 5.0e-14 6e-14 $\Delta$ dryso2 (kg m<sup>-2</sup> s<sup>-1</sup>) 2e-13 $\Delta$ wetso2 (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ dryso4 (kg m<sup>-2</sup> s<sup>-1</sup> 2.5e-14 3e-14 0e+00 0e+00 0.0e+00·3е--14 -2.5e-14 2e-13 Sto of State -6e-14 3.14.600 fed 1950 318 600 Fed. 1950 on all arity of Sto Still Still Store SHO IND SHIP JOSO sir ind shift 1950 ring on log on h , 600 leg sno ind shift SIR ALL SHIFT she ind shift \$10<sup>300</sup> teq SUS PORTER -5.0e-14 sing 300 teg sin 600 teg (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3total deposition rate wet deposition rate of S - sea of so4 - sea 0.0e+002e-13 $\Delta$ wetso4 (kg m<sup>-2</sup> s<sup>-1</sup>) -5.0e-14 1e-13 $(kg m^{-2} s^{-1})$ -1.0e-13 0e+00 -1.5e-13 1e-13 -2.0e-13 2e--13 By Sub Stiff Oppor Sto of Stiff, 1950 SIR All SHIFT snp ind shift sir ind shift 1950 31490 544 349 and ind shift of o sub 300 teg CAM-ATRAS ■ E3SM GISS-E2.1 CESM1 GFDL-ESM4 NorESM2

# Summary - absolute difference



▲ CAM-ATRAS

CESM1

E3SM

NorESM2

## Summary - absolute difference $\Delta$ clear – sky shortwave flux (W m $^{-2}$ ) $\Delta$ shortwave flux (W $\mathrm{m}^{-2})$ $\Delta$ shortwave flux (W m<sup>-2</sup>) 0.2 -0.2 0.02 -0.1 -0.1 -0.01 -0.00 0.0 -0.0 -7.5e-085.0e-082.5e-080.0e+002.5e-08 -3e-08 -1e-08 $\Delta$ SO2 column burden (kg m<sup>-2</sup>) $\Delta$ SO4 column burden (kg m<sup>-2</sup>) Δ SO2 lifetime (days) $\Delta$ SO4 column burden (kg m $^{-2}$ ) 0e+00 **-**30 -∆ SO2 lifetime (days) ∆ SO4 lifetime (days) -2e-08 **-**20 -10 -0 -0 --7.5e-085.0e-082.5e-080.0e+002.5e-08 0e+00 -3e-08 -2e-08 -1e-08 0e+00 -2e-08 -3e-08 -1e-08 $\Delta$ SO2 column burden (kg m<sup>-2</sup> $\Delta$ SO2 column burden (kg m<sup>-2</sup>) $\Delta$ SO4 column burden (kg m<sup>-2</sup>) 0e+00 -∆ SO2 column burden (kg m<sup>-2</sup>) $\Delta$ net radiative flux (W m $^{-2}$ ) 0.15 -2.5e-13 - $\Delta$ DMS (mol mol<sup>-1</sup>) 0.10 -1e-08 0.0e+00 0.05 2e-08 0.00 -2.5e-13 -0.05 -3e-08 -3e-08 -2e-08 -1e-08 0e+00 -2.0e-11.5e-11.0e-15.0e-020e+00 -2e-08 $\Delta$ SO2 (kg kg<sup>-1</sup>) Δ SO2 lifetime (days) $\Delta$ SO2 column burden (kg m<sup>-2</sup>)

CAM-ATRAS

CESM1

E3SM

-GFDL-ESM4

GISS-E2.1

NorESM2