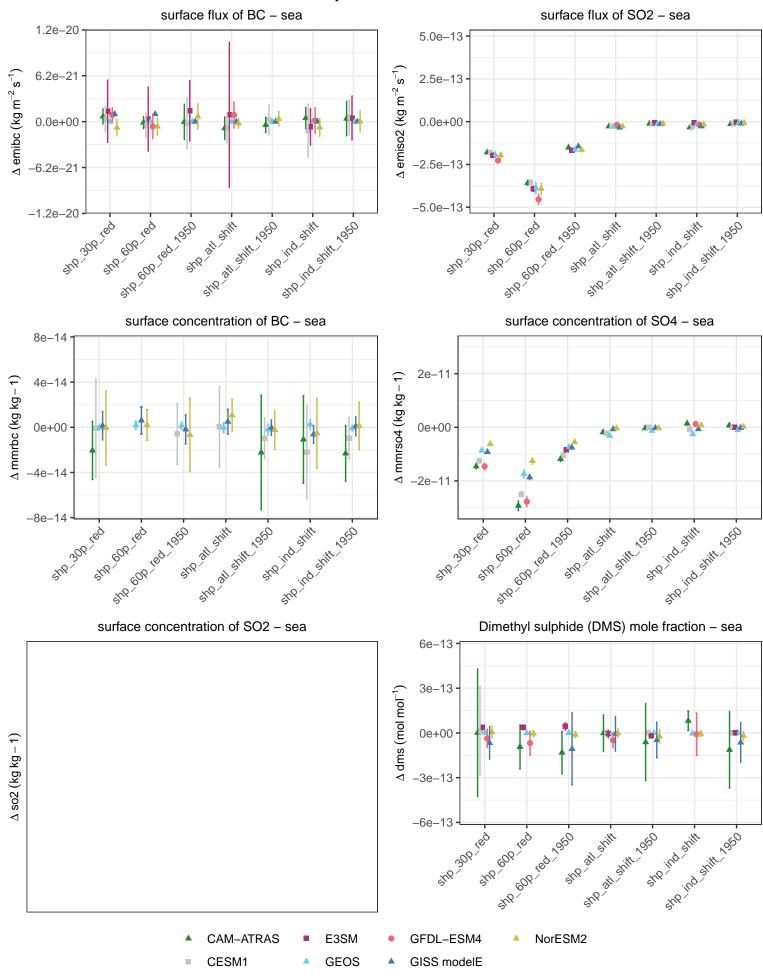
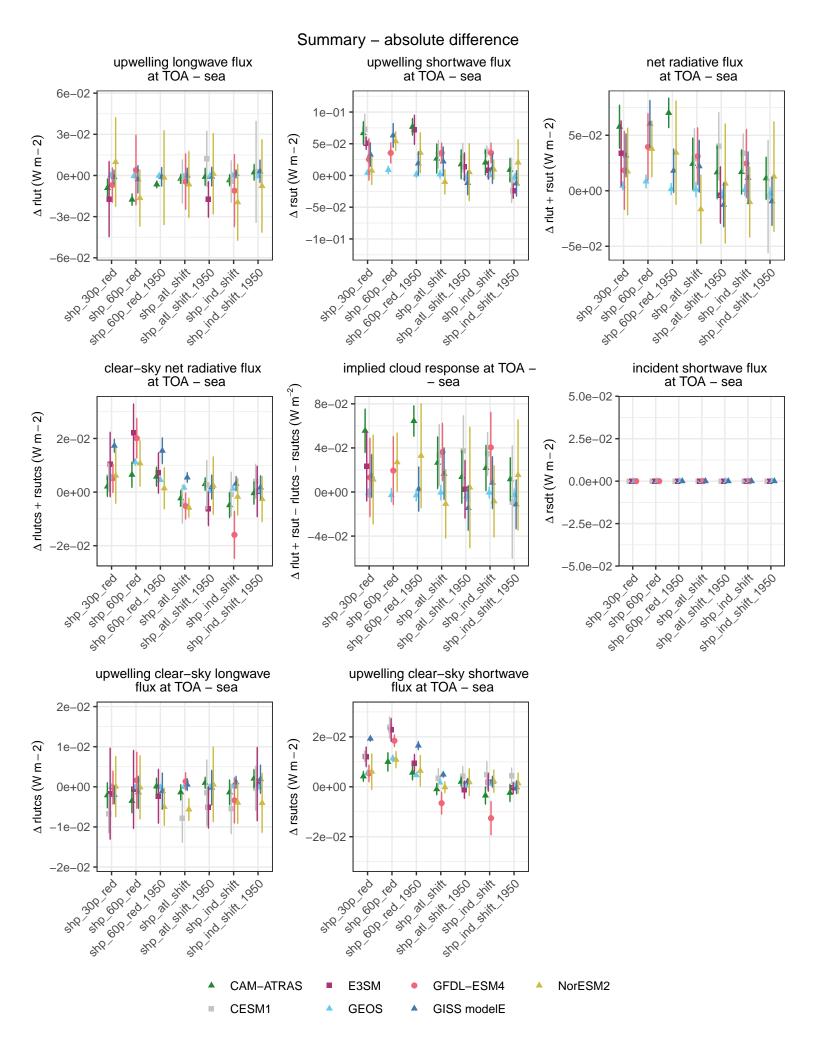
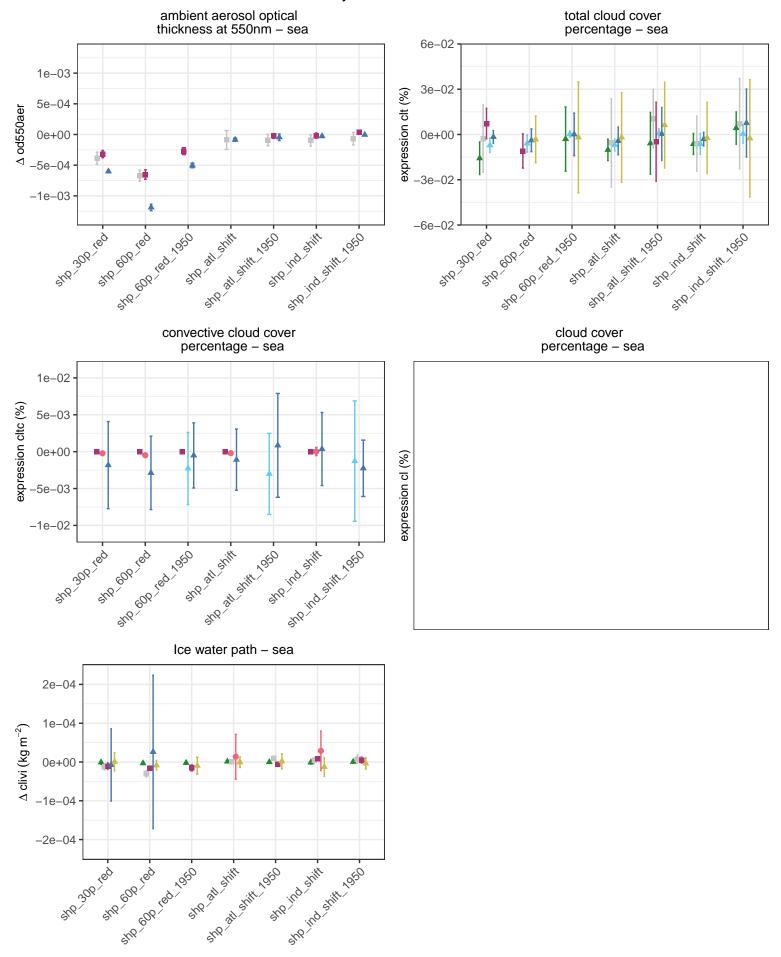
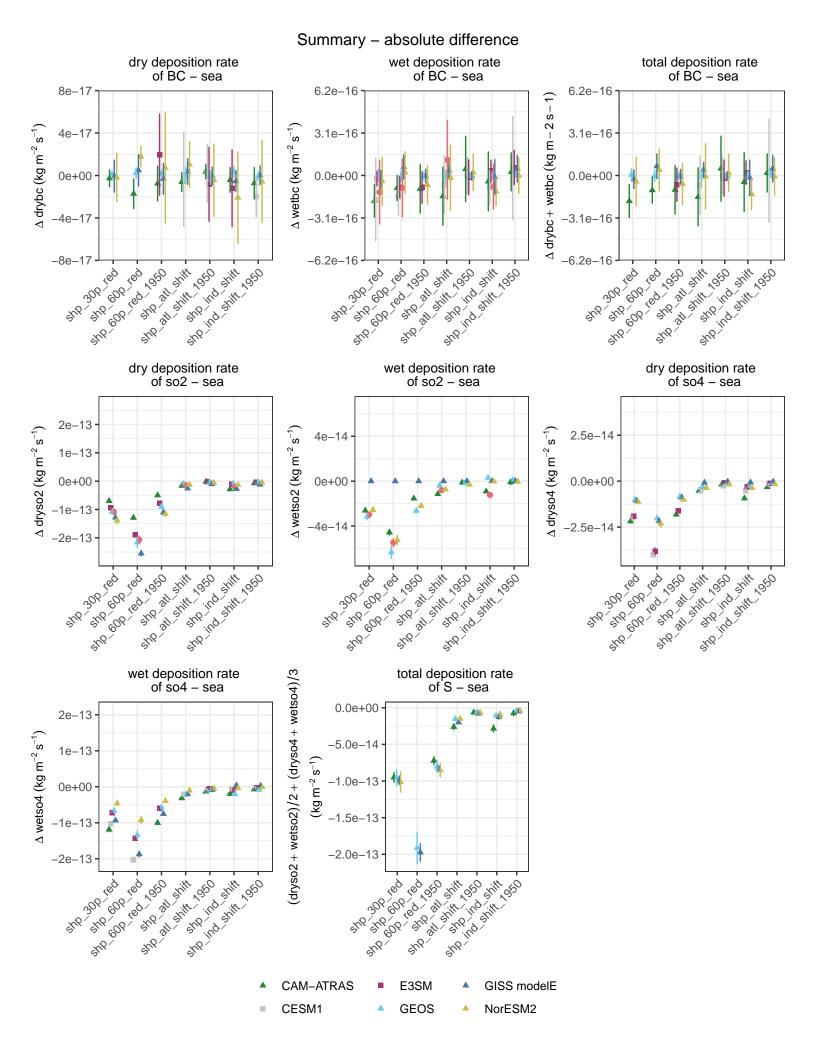
## Summary - absolute difference





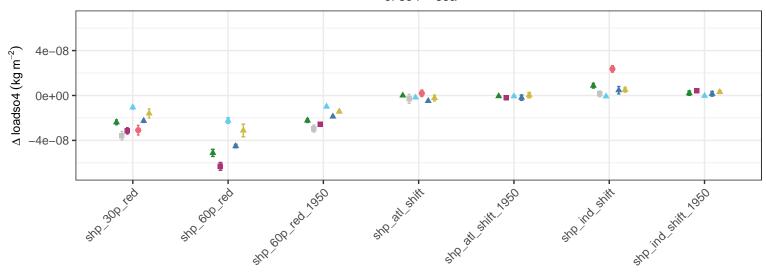
## Summary - absolute difference

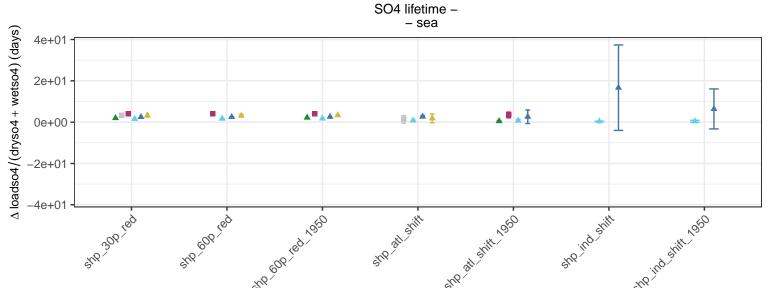


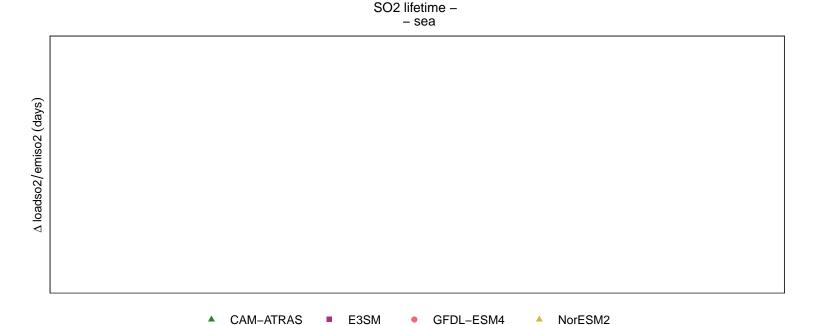


## Summary - absolute difference

load of so4 – sea







GISS modelE

**GEOS** 

CESM1

## Summary - absolute difference 0.10 - $\Delta$ clear – sky shortwave flux (W m $^{-2}$ ) $\Delta$ shortwave flux (W m<sup>-2</sup>) $\Delta$ shortwave flux (W m $^{-2}$ ) 0.05 -0.00 --5.0e-08-2.5e-080.0e+00 2.5e-08 $\Delta$ SO4 column burden (kg m<sup>-2</sup>) $\Delta$ SO2 column burden (kg m<sup>-2</sup>) Δ SO2 lifetime (days) $\Delta$ SO4 column burden (kg m $^{-2}$ ) 30 -∆ SO4 lifetime (days) ∆ SO2 lifetime (days) 20 • 10 0 -5.0e-08-2.5e-080.0e+00 2.5e-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>) $\Delta$ SO2 column burden (kg m $^{-2})$ $\Delta$ SO2 column burden (kg $\mathrm{m}^{-2})$ $\Delta$ DMS (mol mol<sup>-1</sup>) -5e-13-4e-13-3e-13-2e-13-1e-13 0e+00 $\Delta$ SO2 surface flux (kg m<sup>-2</sup> s<sup>-1</sup>) Δ SO2 lifetime (days) $\Delta$ SO2 (kg kg<sup>-1</sup>)

CAM-ATRAS

CESM1

E3SM

**GEOS** 

GFDL-ESM4

GISS modelE

NorESM2