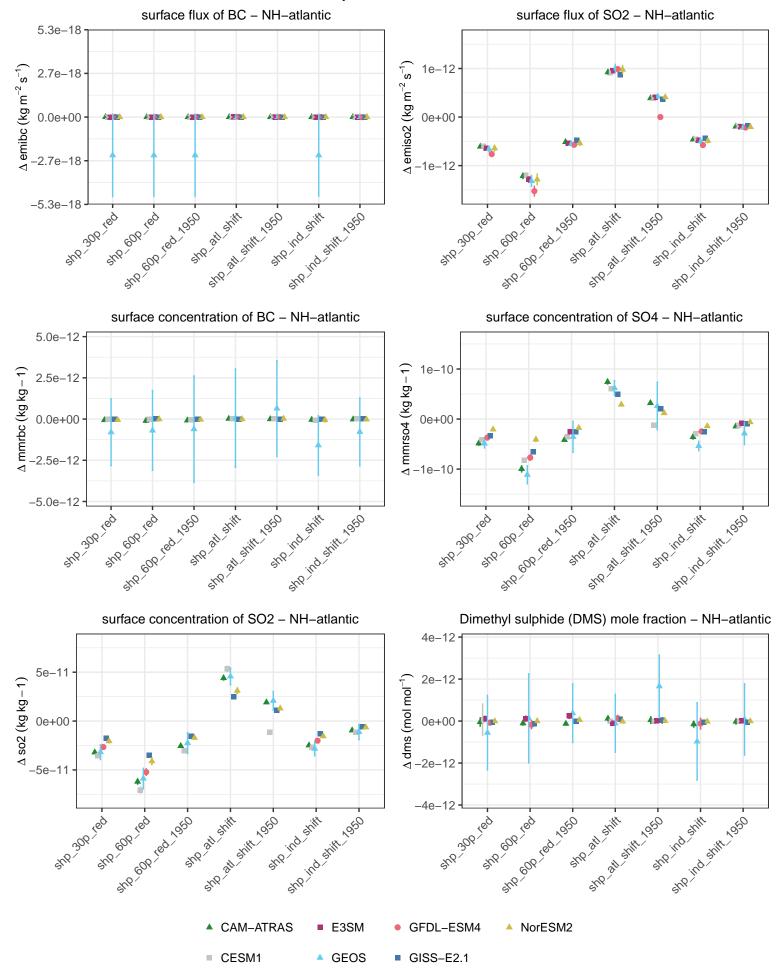
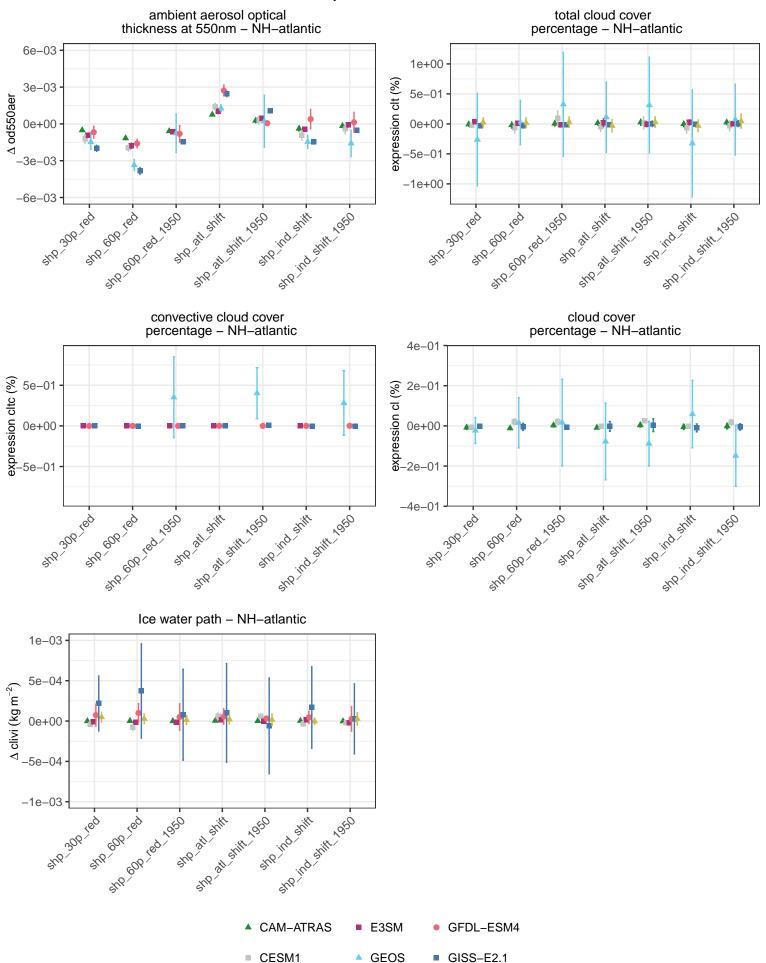
### Summary – absolute difference



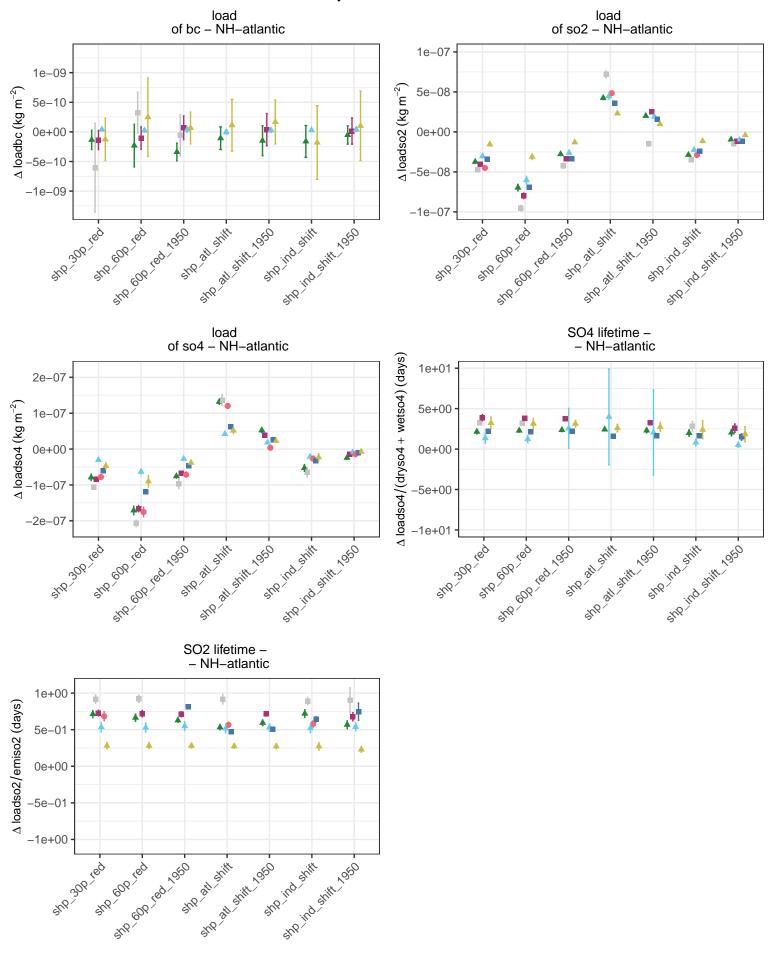
#### Summary - absolute difference upwelling longwave flux upwelling shortwave flux net radiative flux at TOA - NH-atlantic at TOA - NH-atlantic at TOA - NH-atlantic 1.0 1.0 1.0 $\Delta$ rlut + rsut (W m – 2) $\Delta$ rlut (W m – 2) $\Delta \operatorname{rsut}(\operatorname{Wm}-2)$ 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 -0.50.5-1.0-1.0-1.0+ 10 600 red 1950 sho ind shift 1960 sto all stift. 1950 310 600 led 1950 sho ind shift 1950 SHP SH SHIP, DEO sho ind shift 1950 stip all stift. Jose snP at shift snP at shift she ind shift snP at shift she ind shift sub end ing she ind shift Sub log · 608 /69 clear-sky net radiative flux implied cloud response at TOA incident shortwave flux at TOA - NH-atlantic NH–atlantic at TOA - NH-atlantic $\Delta$ 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 -1.0and ind shift 1950 470 600 red 1950 \$18 600 led 1950 Str. ind Stift 1950 STR ind shift STR all Britt. 1980. STR 3H SHIP, 1980 Sto all Stiff 1950 she ind shift sub en lag STP at shift STR 2H STIFF she ind shift Sub end leg STR all STIFF sub en leg upwelling clear-sky shortwave upwelling clear-sky longwave flux at TOA - NH-atlantic flux at TOA - NH-atlantic 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 -1.0-1.0SHO All SHIP. +10 600 red 1950 +1000 ped 1050 sho ind shift 1950 SHP all SHIT, Jobo Str. ind Stift 1950 STR at Shift snp ind shift SIRP all SHIFT she ind shift sub out ing sub 300 leg sub cob 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 - NH-atlantic of BC - NH-atlantic of BC - NH-atlantic 5.1e-15 7.2e-15 $\Delta$ drybc + wetbc (kg m – 2 s – 1) 1e-14 $\Delta$ wetbc (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ drybc (kg m<sup>-2</sup> s<sup>-1</sup>) 2.5e-15 2.1e-15 5e-15 0.0e+00 0e+00 -3.0e-15 -5e-15 2.5e-15 -8.1e–15 SIP 3H SHIP 1 John SHIP A SIP att Stift, 1950 Stift, 195 -1e-14 314 600 181 1950 -any indanit 1950 she ind shift -5.1e-15 sub 300 leg -1.3e-14 stre 300 teg dry deposition rate wet deposition rate dry deposition rate of so4 - NH-atlantic of so2 - NH-atlantic of so2 - NH-atlantic 2e-13 1e-12 2e-13 $\Delta$ dryso2 (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ dryso4 (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ wetso2 (kg m<sup>-2</sup> s<sup>-1</sup>) 1e-13 5e-13 1e-13 0e+00 0e+00 0e+00 1e-13 5e-13 -1e-13 -1e-12 -2e SHO A SHIP SALE Sto off Stiff, 1969 and all arith, 1960 410 600 fed 1950 Stopped Stift 1960 3.14 600 18d 1. J.1600 180 1950 SHO JIN SHIRL JOSO sno ind shift , 600 leg -2e-13 SIRP all SHIFT stp.ind.stift sing 300 fed Sub leg sing 300 teg (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3total deposition rate wet deposition rate of so4 - NH-atlantic of S - NH-atlantic 1e-12 4e-13 $\Delta$ wetso4 (kg m<sup>-2</sup> s<sup>-1</sup>) 5e-13 $(kg m^{-2} s^{-1})$ 0e+00 0e+00 4e-13 5e-13 one att stift, job o stift, job and on the about the 4 60 18 × 19 0 -1e-12 Str. ind stift 1950 snPind shift -8e-13 sub 300 leg SUB LEGA sto 300 leg CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

## Summary - absolute difference



▲ CAM-ATRAS

CESM1

■ E3SM

GEOS

NorESM2

# Summary - absolute difference

