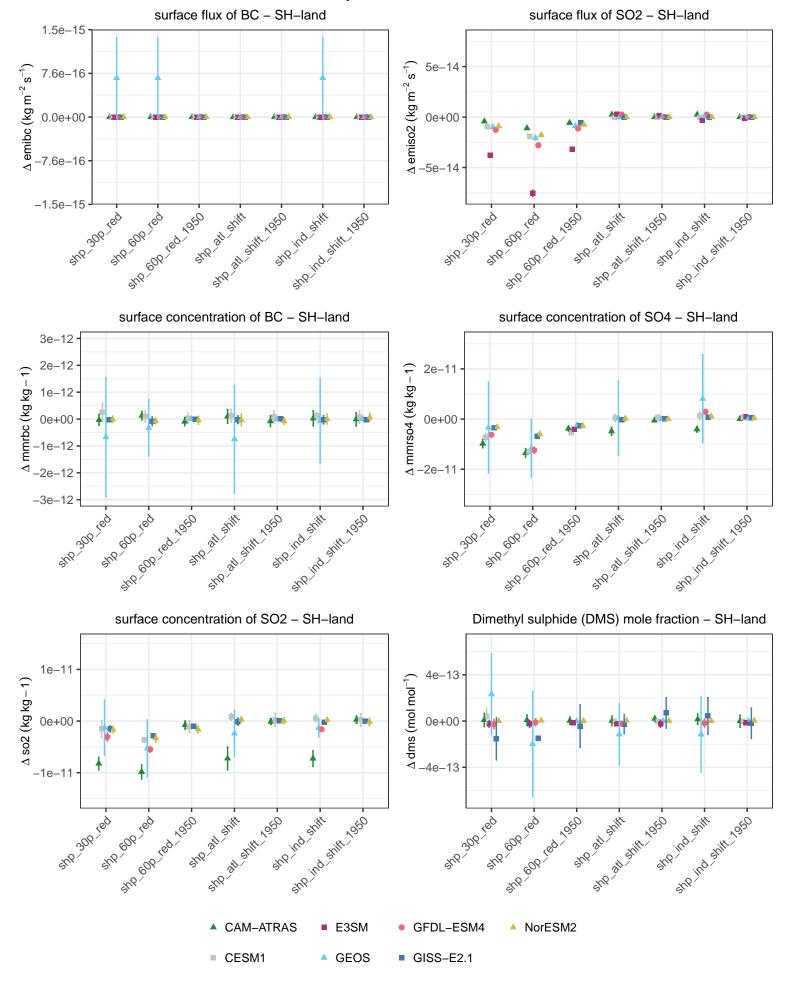
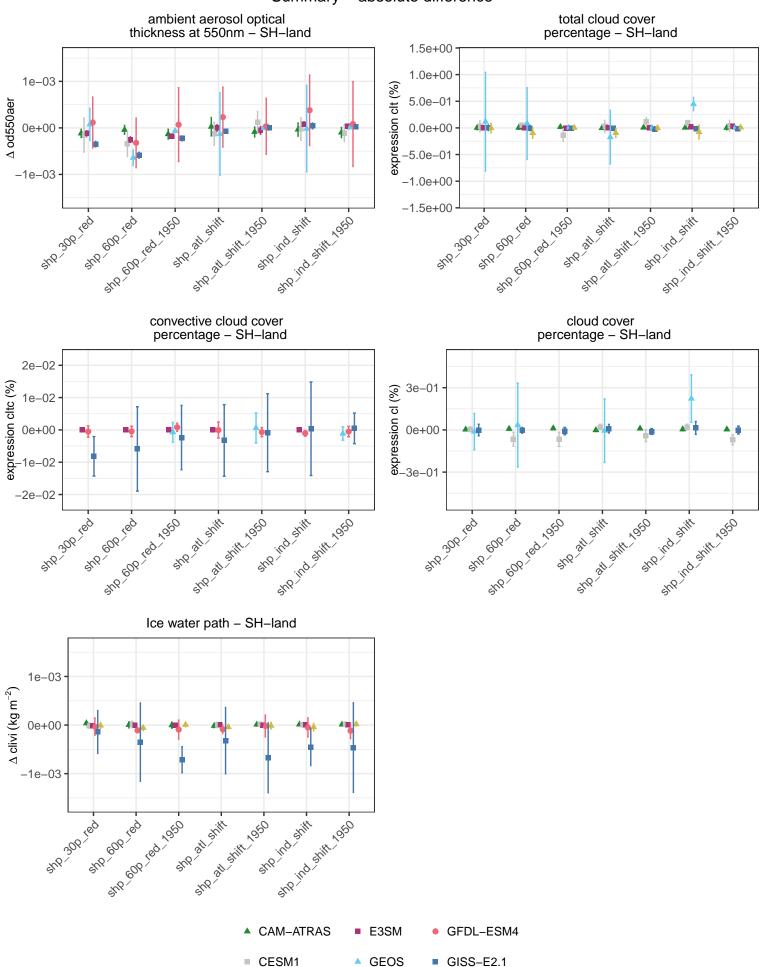
# Summary – absolute difference



#### Summary - absolute difference upwelling longwave flux upwelling shortwave flux net radiative flux at TOA - SH-land at TOA - SH-land at TOA - SH-land 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+ 1000 red 1950 sho ind shift 1950 ste all stift. Joso 310 600 led 1950 sho ind shift 1950 STR 21 STIFL 250 sho ind shift loso ste all stift. Jose snP att shift she ind shift snP att shift she ind shift snP att shift she ind shift sub en lag elb log sub en lag clear-sky net radiative flux implied cloud response at TOA incident shortwave flux – SH-land at TOA - SH-land at TOA - SH-land $\Delta$ 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 -1.0SHR all SHIP. 470 600 red 1950 \$18 600 led 1950 Stopind Shit 1950 Sto ind shift 1950 Stopind Shit 1950 STR 3H SHIP. 1980 STR all SHIP. JOSO snp ind shift STR ind Shift STP at shift STR 2H STIFF sno ind shift Sub, end leg STR all STIFF Sub log sub en leg upwelling clear-sky shortwave upwelling clear-sky longwave flux at TOA - SH-land flux at TOA - SH-land 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 -1.0-1.0and all arith. \$10,000 ted 1950 +10 600 red 1050 sho ind shift 1960 SHP all SHIT, Jobo Stopind Shit 1950 sno all shift snp 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 of BC – SH–land wet deposition rate total deposition rate of BC - SH-land of BC - SH-land 8.9e-15 8.2e-15 $\Delta$ drybc + wetbc (kg m – 2 s – 1) 1e-14 $\Delta$ drybc (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ wetbc (kg m<sup>-2</sup> s<sup>-1</sup>) 4.4e-15 3.5e-15 5e-15 0e+00 0.0e + 001.2e-15 -5e-15 4.4e-15 -5.9e-15 -1e-14 3.14.600 181. 1950 ... Str Str. Joseph Str. Joseph SHO IND SHIP JOSO 214 90 184 1850 + and de distriction of STR 201 STILL STR SHO IN IN SHIP OF O -8.9e-15 sub 300 leg \$10<sup>300</sup> teq -1.1e-14 stre 300 teg dry deposition rate wet deposition rate dry deposition rate of so2 - SH-land of so2 - SH-land of so4 - SH-land $\Delta$ dryso2 (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ wetso2 (kg m<sup>-2</sup> s<sup>-1</sup>) 2e-4e-14 $\Delta$ dryso4 (kg m $^{-2}$ s $^{-1}$ 3e-14 0e+00 0e+00 3e-14 4e-14 -2e-14 SHO SHELL SH SIN SH SHIP IN SON 410 600 fed 1950 and old led by Sto of Stiff, 1950 SHO JIN SHIRL JOSO sir ind shift 1950 2.14.800 fed 1950 , 600 leg sno ind shift SIR at Stiff sno ind shift , 600 leg \$10<sup>300</sup> 100 (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3wet deposition rate total deposition rate of so4 - SH-land of S - SH-land 1.0e-13 2e-13 $\Delta$ wetso4 (kg m<sup>-2</sup> s<sup>-1</sup>) 5.0e-14 1e-13 $(kg m^{-2} s^{-1})$ 0.0e+000e+00 5.0e-14 1e-13 Story of Strik Of Str -1.0e-13 -2e-13 40 00 18d 18d Stopped Stift 1950 31490 544 4 snp ind shift -1.5e-13 sub 300 teg SUB LEGA CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

# Summary - absolute difference

