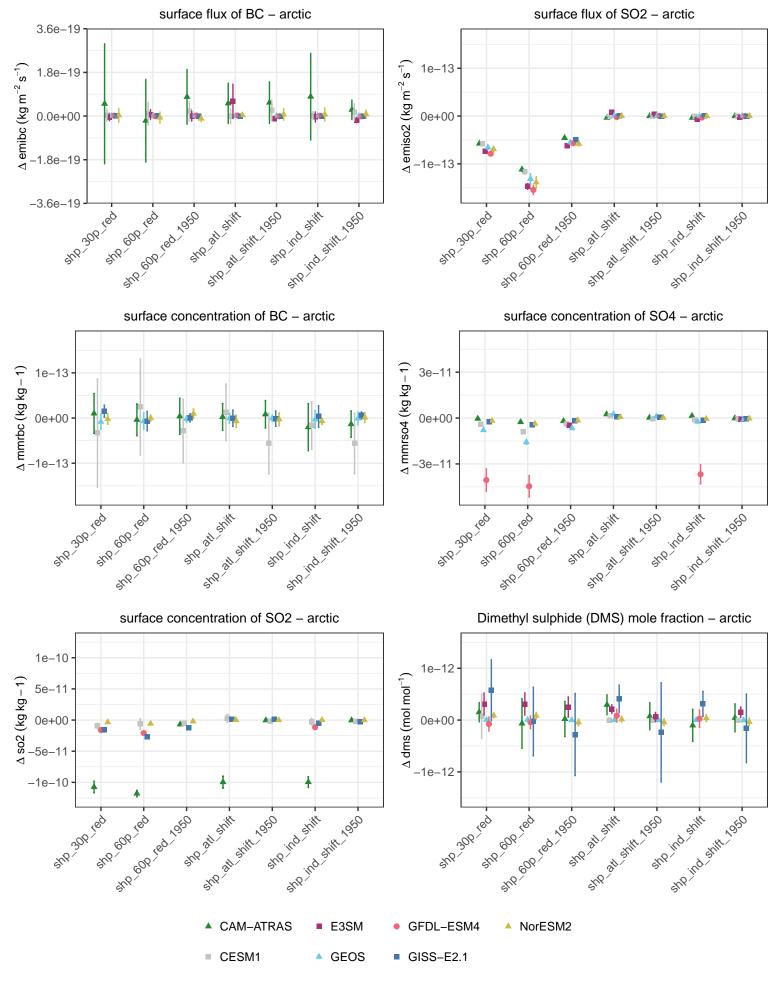
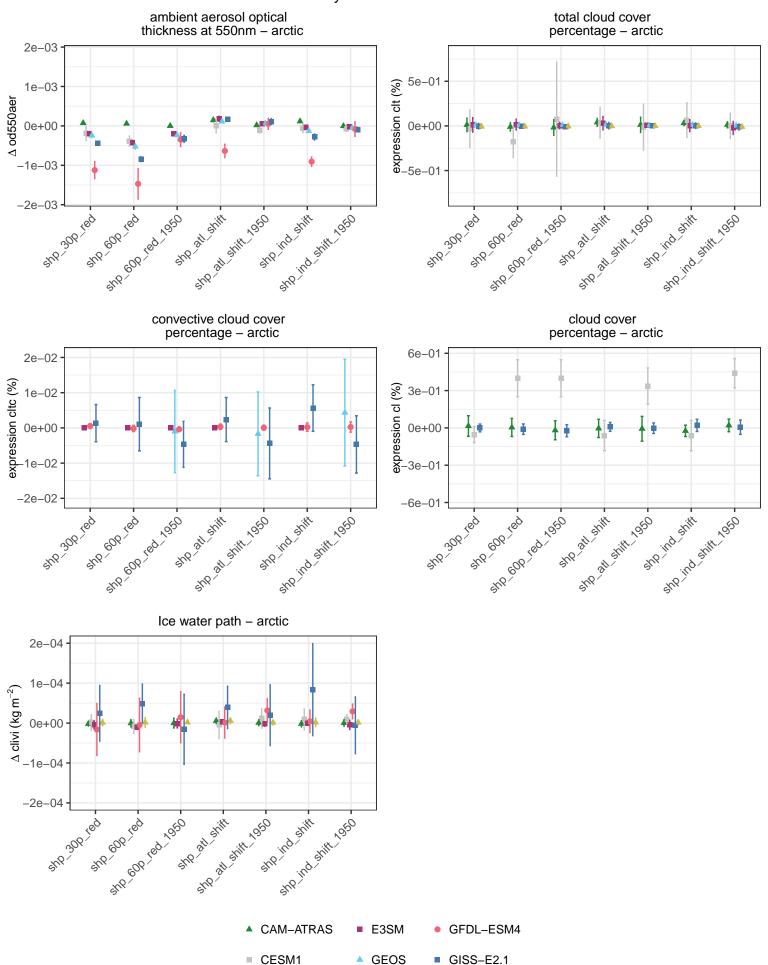
Summary – absolute difference



Summary - absolute difference upwelling longwave flux upwelling shortwave flux net radiative flux at TOA - arctic at TOA – arctic at TOA - arctic 1.0 1.0 1.0 Δ rlut + rsut (W m – 2) $\Delta \operatorname{rsut}(\operatorname{Wm}-2)$ Δ rlut (W m – 2) 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 -0.50.5-1.0-1.0-1.0sho ind shift 1960 +10 600 red 1950 ste all stift, 1950 310 600 red 1950 sho ind shift 1950 ste off stift, ogso sho ind shift loso ste all stift. Jose she ind shift STP all shift she ind shift snP at shift she ind shift 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 - arctic arctic at TOA - arctic Δ rlut + rsut - rlutcs - rsutcs (W m⁻²) Δ 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. +1000 Fed 1050 +10 600 led 1950 sho ind shift 1960 SHO IN SHIP. 1950 Stopind Shit 1950 STR 3H SHIP, 1950 STR all SHIP. JOSO snp ind shift sho ind shift STP at shift STP all shift sno ind shift Sub leg STR all STIFF Pub log sub en leg upwelling clear-sky shortwave upwelling clear-sky longwave flux at TOA - arctic flux at TOA - arctic 1.0 1.0 $\Delta \operatorname{rsutcs} (\operatorname{Wm} - 2)$ Δ 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. sho ind shift 1950 +10 600 red 1050 SHP all SHIT, Jobo stopind shift 1950 STR at Shift sno ind shift stp.ind.shift snP at shift sub 300 leg sub en lag sub en 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 - arctic of BC - arctic of BC - arctic 4.1e-16 7.4e-16 5.0e-16 Δ drybc + wetbc (kg m – 2 s – 1) Δ drybc (kg m⁻² s⁻¹) Δ wethc (kg m⁻² s⁻¹) 2.1e-16 3.7e-16 1.7e-16 0.0e + 000.0e + 00-1.7e-16 -3.7e-16 2.1e-16 -5.0e-16 STR att Strike Ind strike 314 600 181 1850 + SHO IND SHIP JOSO 314 600 181 1950 214 90 184 1850 + SUR SH SHIP JOSO SUN SUL SUIT JOSO SHO IN SHIP OF O -4.1e-16 sub 300 leg -7.4e-16ste 300 teg -8.3e-16 stre 300 teg dry deposition rate wet deposition rate dry deposition rate of so2 - arctic of so2 - arctic of so4 - arctic 1e-04 1e-13 Δ dryso2 (kg m⁻² s⁻¹) Δ wetso2 (kg m⁻² s⁻¹) $\Delta \, dryso4 \, (kg \, m^{-2} \, s^{-1})$ 2e-14 5e-05 5e-14 0e+00 0e+00 0e+00 -5e-05 -2e-14 -1e-13 SHO A SHIP SALE -1e-04 SHO all Shirt, 1960 318 600 Fed 1950 sin on the same on all arity of SHO JIN SHIRL JOSO Str. ind. Stift 1950 214 90 to 1 sno ind shift Sub leg STR at STIFT sno ind shift sto 300 tog SUB TOO (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3total deposition rate wet deposition rate of S - arctic of so4 - arctic Δ wetso4 (kg m⁻² s⁻¹) 1e-13 4e-05 $(kg m^{-2} s^{-1})$ 0e+00 2e-05 le-13 a sing ind shift of o SHO all SHILL 0e+00 -Stop ind Shift 1950 314 90 Sec. 4 Str Str Strike in of a snp ind shift stp. 300 CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

Summary - absolute difference

