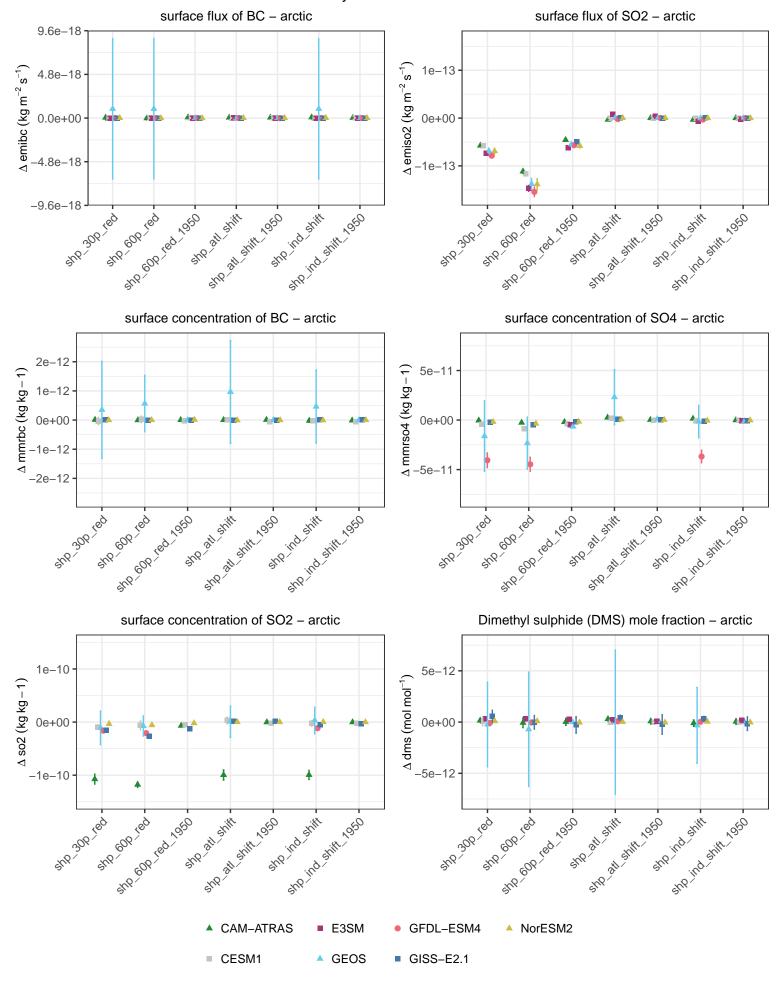
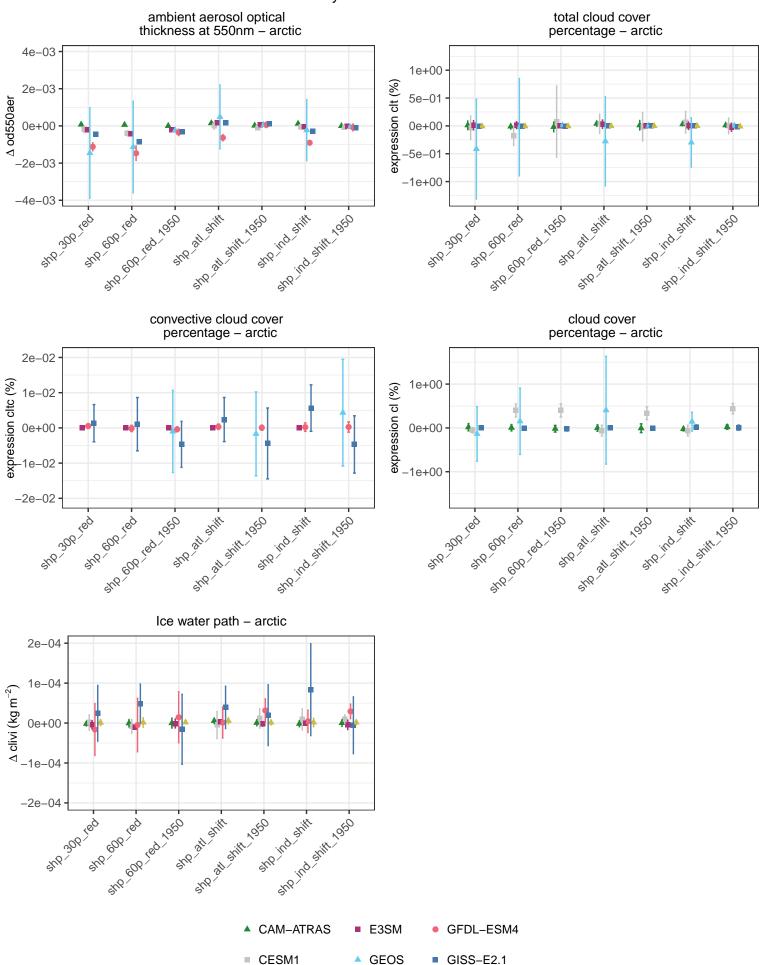
Summary - absolute difference



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) Δ rlut (W m – 2) $\Delta \operatorname{rsut}(\operatorname{Wm}-2)$ 0.5 0.5 0.5 0.0 0.0 0.0 -0.5 -0.5 0.5-1.0-1.0-1.0sho ind shift 1960 310 600 red 1950 ste all stift, 1950 310 600 red 1950 sto all stift, 1950 sho ind shift 1950 sho all shift, Joso sho ind shift 1950 snP at shift she ind shift SNP att shift she ind shift snP at shift she ind shift sub end ing 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. + 1050 + \$18 600 led 1950 STR 2d Stiff 1959 Str. ind Stift 1950 sho ind shift 1960 SHO IN SHIP. 1950 snPind shift STR 3H SHIP, 1980 snP att shift sno ind shift STP all shift she ind shift Sub leg STR all STIFF Sub 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 1950 +10 600 red 1050 SHP all SHIP. sho ind shift 1950 SHP all SHIT, Jobo and ind shift 1950 STR at Shift snp ind shift sno ind shift sub eab ing snP at shift sub 300 leg sub en lag 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 3.7e-15 1.4e-14 Δ drybc + wetbc (kg m – 2 s – 1) 1e-14 Δ wetbc (kg m⁻² s⁻¹) Δ drybc (kg m⁻² s⁻¹) 1.8e-15 8.6e-15 5e-15 0.0e + 000e+00 3.3e-15 -5e-15 1.8e-15 -2.0e-15 -1e-14 STR att Strike Ind strike 3.14.600 181. 1950 ... 2.14.00 to 1.04.0 214 90 184 1850 T SHP IND SHIPL DED antind shirt 1950 STR ON STITE OF STREET Str. Str. John S she ind shift -3.7e-15 \$18° -7.3e-15 stre 300 teg dry deposition rate wet deposition rate dry deposition rate of so2 - arctic of so2 - arctic of so4 - arctic 2e-13 2e-13 · Δ dryso2 (kg m⁻² s⁻¹) Δ wetso2 (kg m⁻² s⁻¹) Δ dryso4 (kg m⁻² s⁻¹) 5e 1e-13 1e-13 0e+00 0e+00 0e+00 1e-13 -1e-13 -5e-14 -2e-13 SW SH SHIP ST. 410 600 Fed 1950 410 600 fed 1950 Sto of Stiff, 1950 Stop ind shift 1950 and on they have SHP ind shift 1950 sno ind shift she ind shift , 600 tog -2e-13 stp 300 teg , 600 tog (dryso2 + wetso2)/2 + (dryso4 + wetso4)/3total deposition rate wet deposition rate of S - arctic of so4 - arctic Δ wetso4 (kg m⁻² s⁻¹) 2.5e-13 4e-13 $(kg m^{-2} s^{-1})$ 0.0e + 000e+00 -2.5e-13 Pred Striff of Striff of the S 4e-13 -5.0e-13 SHO all SHILL Stop ind Shift 1950 snPind shift CAM-ATRAS ■ E3SM GFDL-ESM4 NorESM2 CESM1 GEOS GISS-E2.1

Summary - absolute difference

