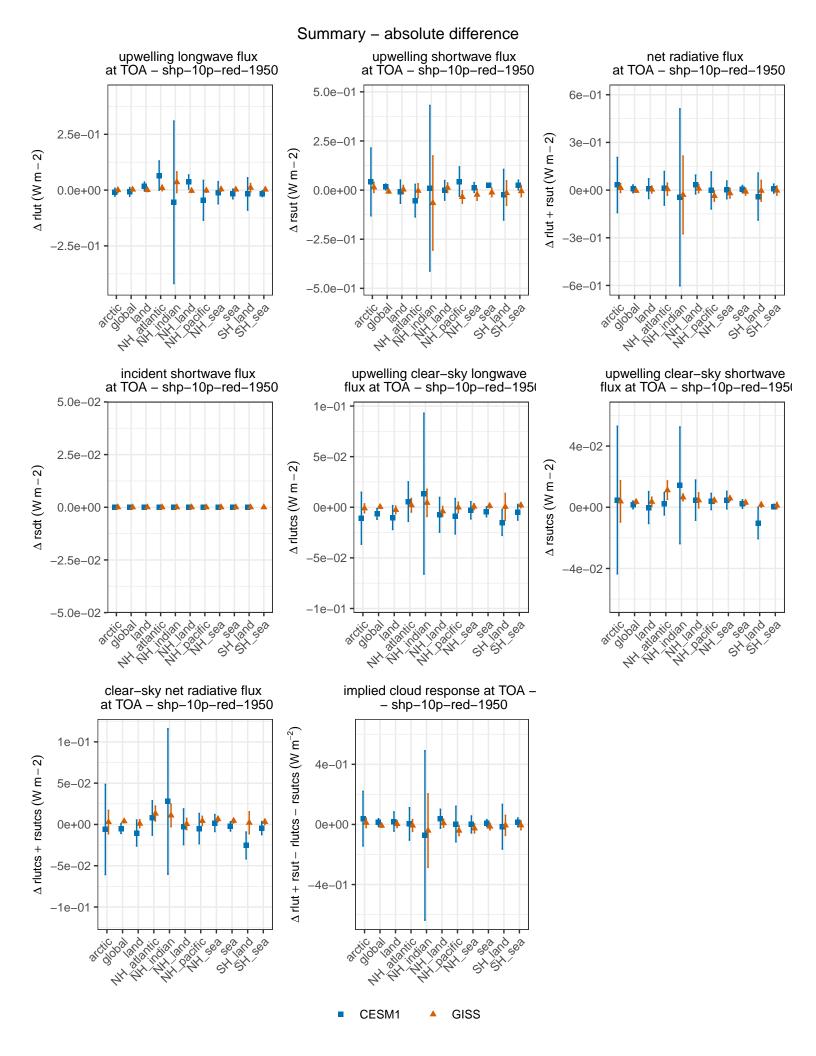
## Summary - absolute difference surface flux of SO2 - shp-10p-red- surface concentration of BC - shp-10p-r surface flux of BC - shp-10p-red-3.9e-19 5e-14 2e-13 1.9e-19 $\Delta$ emibc (kg $\mathrm{m}^{-2}\,\mathrm{s}^{-1})$ $\Delta$ emiso2 (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ mmrbc (kg kg – 1) 0.0e+000e+00 0e+00 -1.9e-19 -5e-14 -2e-13 -3.9e-19 surface concentration of SO4 - shp-10p- surface concentration of SO2 - shp-10pload of so4 - shp-10p-red-1950 1e-11 -1e-11 5e-12 5e-12 $\Delta$ mmrso4 (kg kg – 1) 2e-08 $\Delta \cos (kg kg - 1)$ $\Delta$ loadso4 (kg m<sup>-2</sup>) 0e+00 0e+00 0e+00 -5e-12 -5e-12 -2e-08 -1e-11 load Dimethyl sulphide (DMS) mole fraction - shp-10p-red-1950 of bc - shp-10p-red-1950 1e-10 2e-13 $\Delta$ dms (mol mol $^{-1}$ ) 5e-11 $\Delta \log dbc \, (\mathrm{kg} \; \mathrm{m}^{-2})$ 0e+00 0e+00 -5e-11 -2e-13 -1e-10

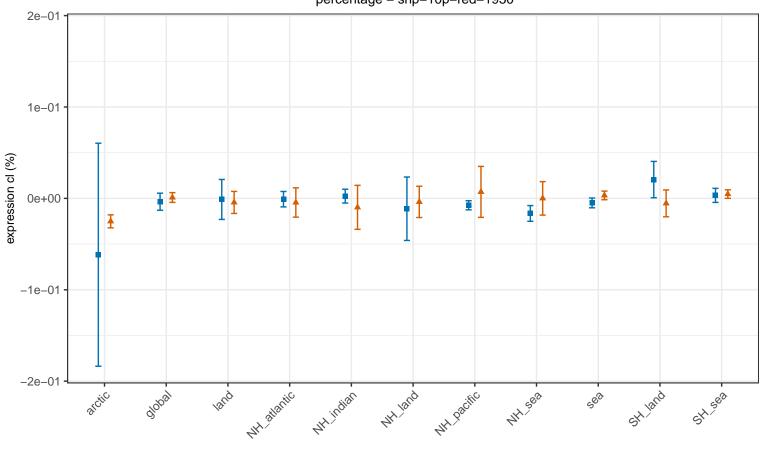
CESM1

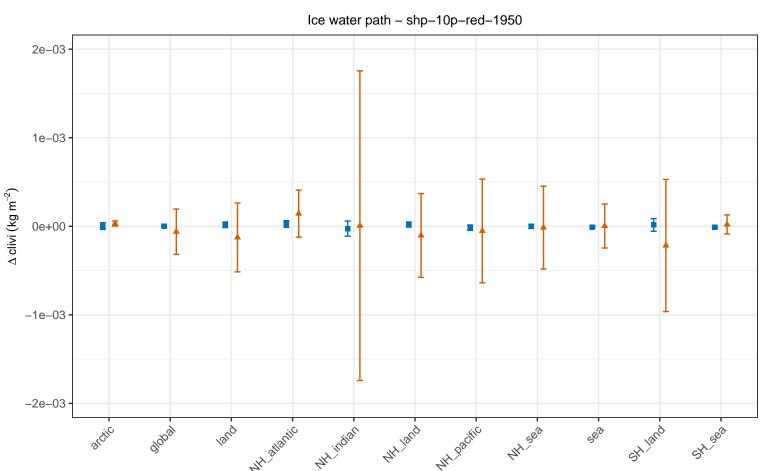
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## Summary - absolute difference

cloud cover percentage – shp–10p–red–1950





## Summary - absolute difference wet deposition rate dry deposition rate total deposition rate of BC - shp-10p-red-1950 of BC - shp-10p-red-1950 of BC - shp-10p-red-1950 6.1e-16 2.6e-15 2.5e-15 $\Delta$ drybc + wetbc (kg m - 2 s - 1) 1.5e-15 3.0e-16 1.3e-15 $\Delta$ drybc (kg $\mathrm{m}^{-2}~\mathrm{s}^{-1})$ $\Delta$ wetbc (kg $\mathrm{m}^{-2}~\mathrm{s}^{-1})$ 0.0e+000.0e+004.7e-16 -3.0e-16 -1.3e-15 -5.5e-16 -6.1e-16 -2.6e-15 -1.6e-15 dry deposition rate wet deposition rate dry deposition rate of so2 - shp-10p-red-1950 of so2 - shp-10p-red-1950 of so4 - shp-10p-red-1950 1.3e-17 1e-14 4e-14 6.7e-18 $\Delta$ dryso2 (kg $\mathrm{m}^{-2}\,\mathrm{s}^{-1})$ $\Delta$ wetso2 (kg m<sup>-2</sup> s<sup>-1</sup>) $\Delta$ dryso4 (kg m<sup>-2</sup> s<sup>-1</sup>) 5e-15 0.0e+000e+00 0e+00 -5e-15 -6.7e-18 -4e-14 -1e-14 -1.3e-17 wet deposition rate total deposition rate of so4 - shp-10p-red-1950 of S - shp-10p-red-1950 (dryso2 + wetso2)/2 + (dryso4 + wetso4)/34e-14 3e-14 $\Delta$ wetso4 (kg m $^{-2}$ s $^{-1}$ ) $(kg m^{-2} s^{-1})$ 0e+00 0e+00 -3e-14 -4e-14

CESM1

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