# Number of Model Layers below 400 m: SO2-at-height (percent difference) surface flux of BC - global surface flux of SO2 - global 4% 2% ∆ emiso2 0% -2% -4% 2 6 2 6 Number of Layers < 400 m Number of Layers < 400 m surface concentration of BC - global surface concentration of SO4 - global 20% 10% ∆ mmrso4 0% -10% -20% 2 2 Number of Layers < 400 m Number of Layers < 400 m surface concentration of SO2 - global surface concentration of DMS - global 0.5% 0.25% $\Delta$ dms 0% -0.25% -0.5% 6 6

GISS modelE

NorESM2

MIROC-SPRINTARS

Number of Layers < 400 m

OsloCTM3

UKESM1

2e-05%

1e-05%

-1e-05%

-2e-05%

2%

1%

-1%

-2%

60%

30%

0%

-30%

-60%

Number of Layers < 400 m

E3SM

**GEOS** 

GFDL-ESM4

CAM-ATRAS

**CESM** 

CESM2

 $\Delta so2$ 

∆ mmrbc %0 0%

∆ emibc







