Number of Model Layers below 400 m: SO2-at-height (percent difference) surface flux of BC - global surface flux of SO2 - global 4% 2e-05% 2% 1e-05% ∆ emiso2 ∆ emibc 0% 0% -1e-05% -2% -2e-05% -4% 2 2 6 Number of Layers < 400 m Number of Layers < 400 m surface concentration of BC - global surface concentration of SO4 - global 2% 20% 1% 10% ∆ mmrso4 ∆ mmrbc 0% 0% -10% -1% -20% -2% 2 2 6 Number of Layers < 400 m Number of Layers < 400 m surface concentration of SO2 - global surface concentration of DMS - global 0.5% 60% 0.25% 30% $\Delta \, \text{dms}$ $\Delta so2$ 0% 0% -30% -0.25%-60% -0.5%2 6 6 Number of Layers < 400 m Number of Layers < 400 m ▲ CAM5 CESM2 GEOS GISS UKESM CESM1 E3SM GFDL OsloCTM3







