



Figure C1. Global maps of the difference in $p\text{CO}_2$ between the surface ocean and the atmosphere ($\Delta p\text{CO}_2$) for the three LGM experiments in this study (a-c). Where $\Delta p\text{CO}_2$ is positive, $p\text{CO}_2$ is higher in the surface ocean, corresponding to a net source for atmospheric CO_2 . The differences in $\Delta p\text{CO}_2$ between each LGM simulation and expPI are also shown (d-f).