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Historical and future anthropogenic warming effects on droughts, fires and fire emissions of CO_2 and $PM_{2.5}$ in equatorial Asia when 2015-like El Niño events occur

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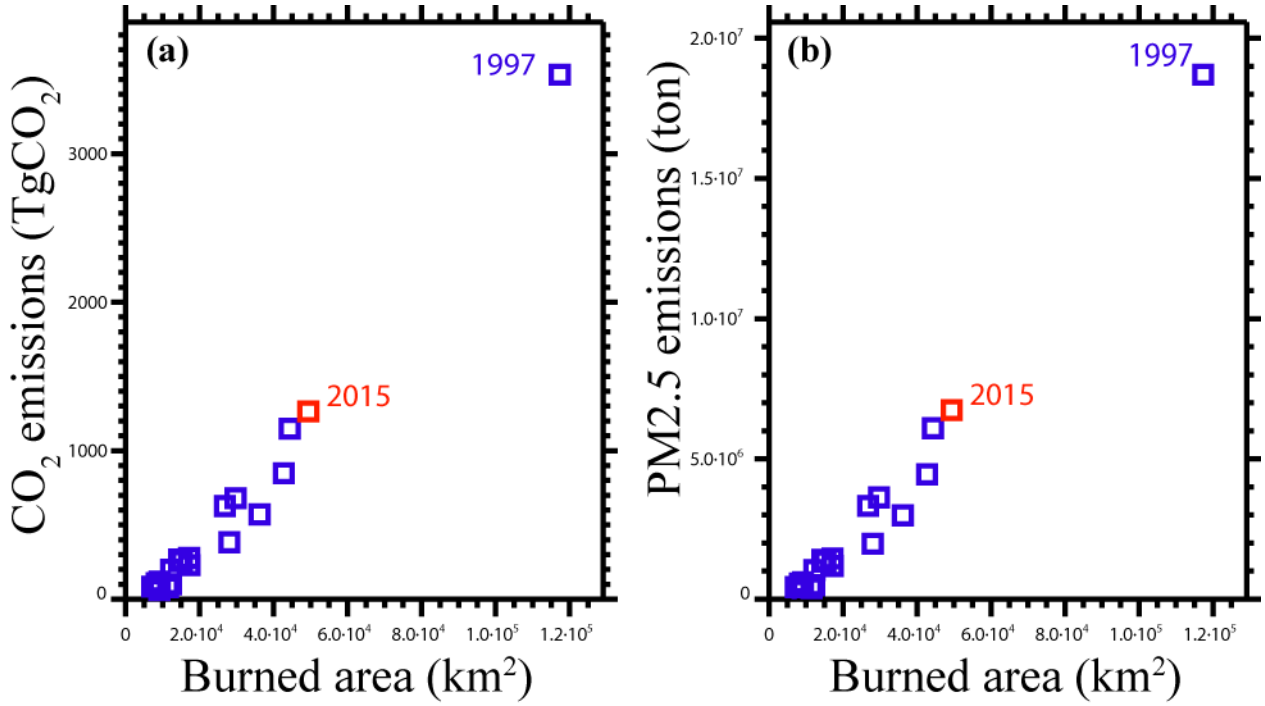
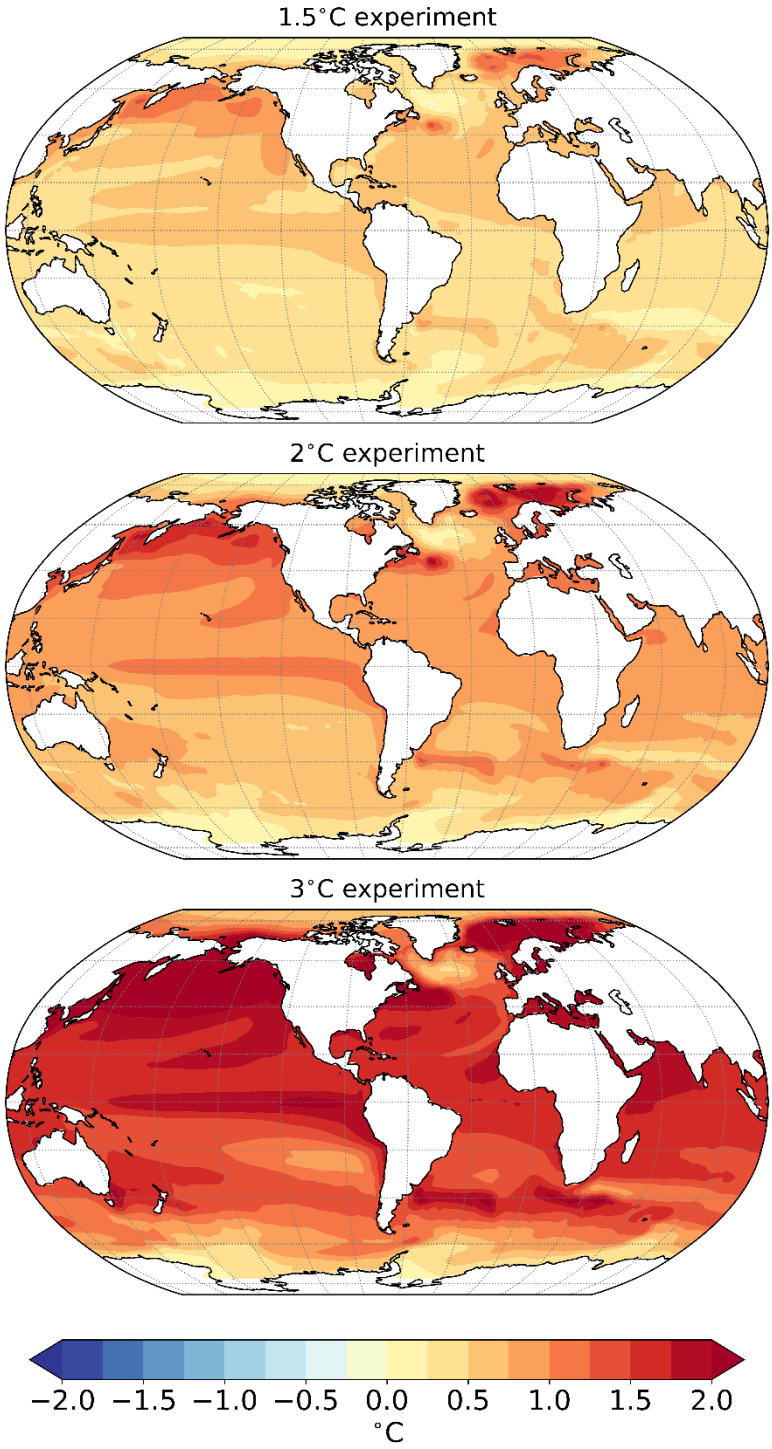
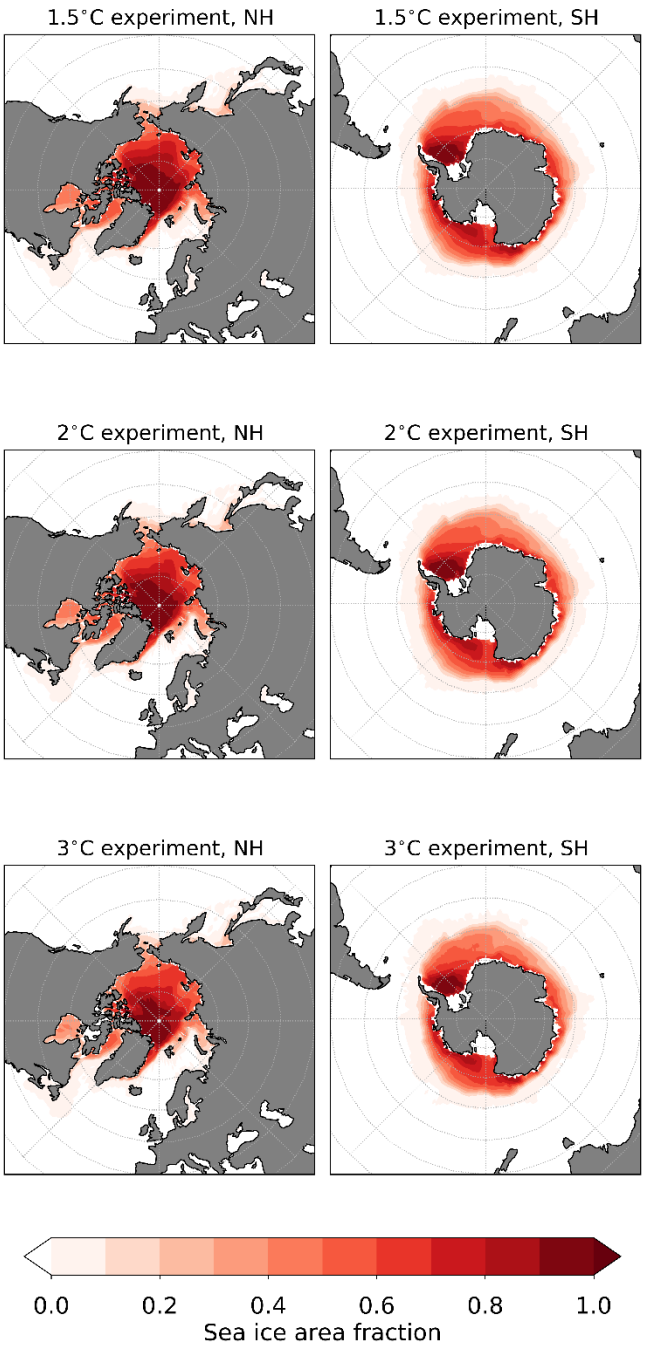


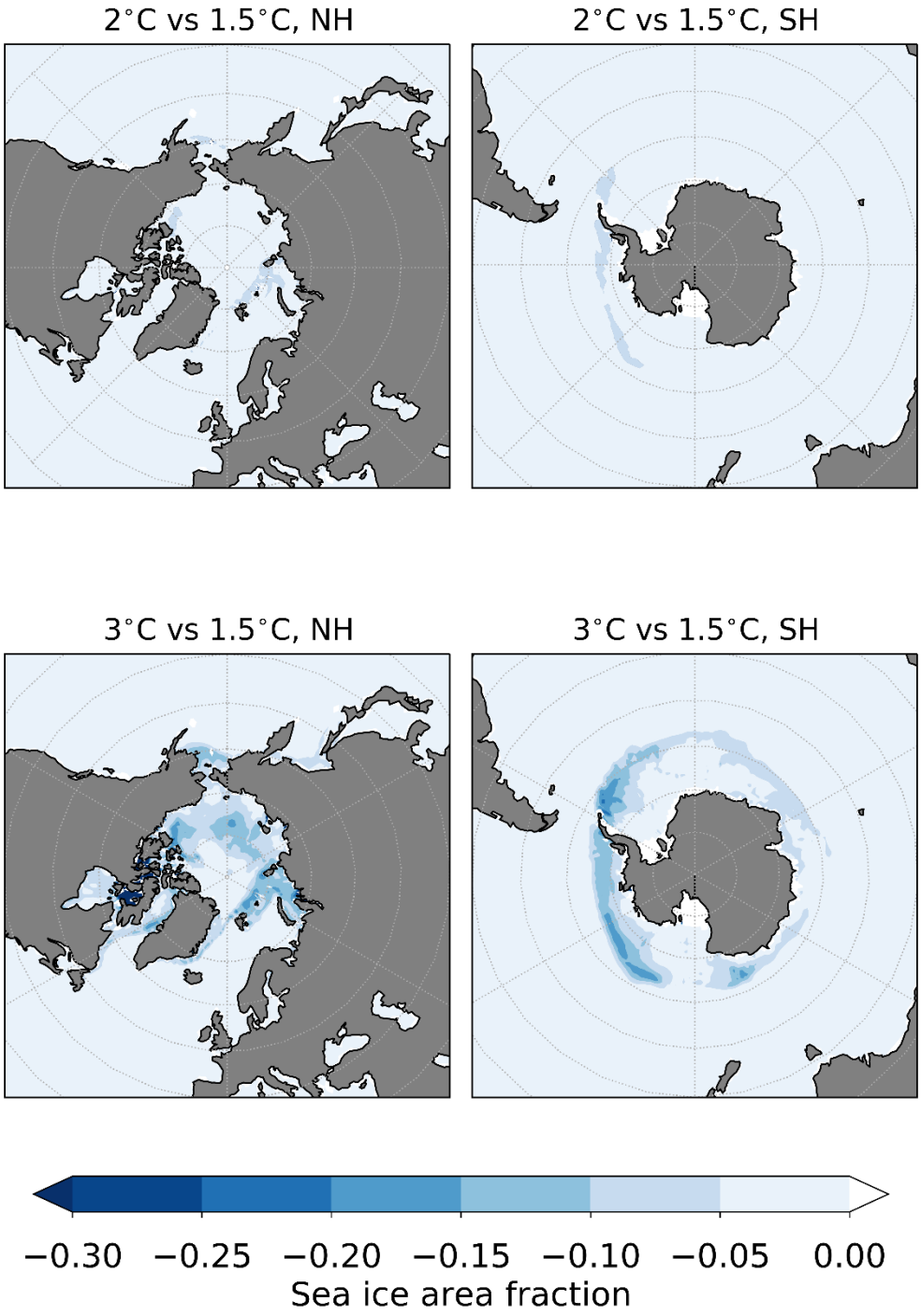
Supplementary Figure 1: Relationships between burned area and fire emissions in the EA area of the GFED4s during 1997-2016. The horizontal axes are burned areas (km^2). The vertical axes denote (a) CO_2 emissions ($TgCO_2$) and (b) $PM_{2.5}$ emissions (ton). The year 2015 values are indicated by red squares.



Supplementary Figure 2: The 2006-2015 mean SST differences (°C) between (top) 1.5 °C and Hist, (middle) 2.0 °C and Hist and (bottom) 3.0 °C and Hist.



Supplementary Figure 3: The 2006-2015 mean sea ice area fraction of (top) 1.5 ºC, (middle) 2.0 ºC and (bottom) 3.0 ºC for (left and right) the Northern and Southern Hemispheres, respectively.



Supplementary Figure 4: The sea ice area fraction differences between (top) 2.0ºC and 1.5 ºC and (bottom) 3.0 ºC and 1.5 ºC for (left and right) the Northern and Southern Hemispheres, respectively.