Figure S1. Time of Emergence (ToE) of T in the thermocline (200 – 600 m). The hatches areas represent the regions where the signal has not emerged by the end of the 21st century. The yellow contours highlight the present time (year: 2020).
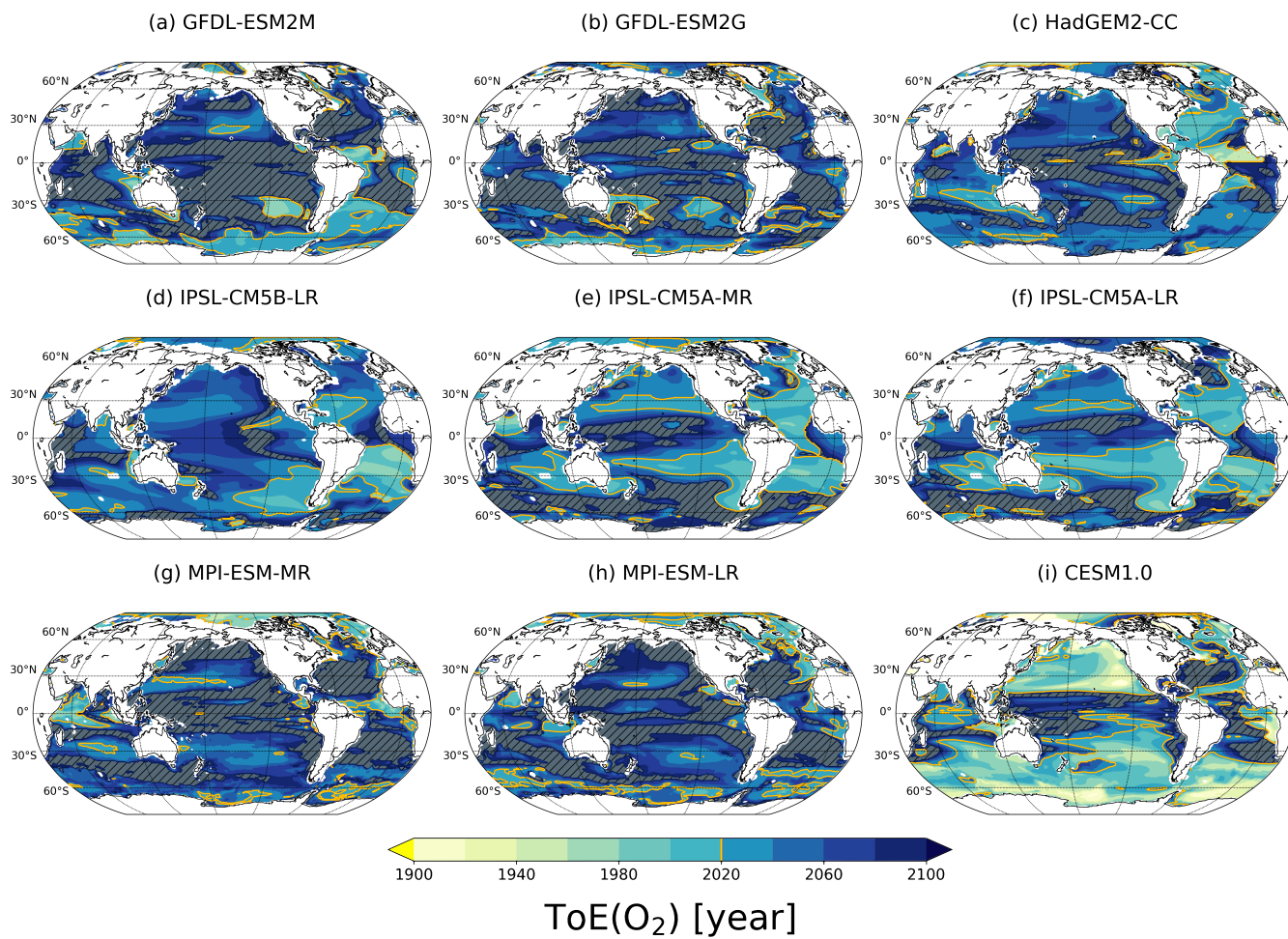
Figure S2. Time of Emergence (ToE) of O_2 in the thermocline (200 – 600 m). The hatches areas represent the regions where the signal has not emerged by the end of the 21st century. The yellow contours highlight the present time (year: 2020)
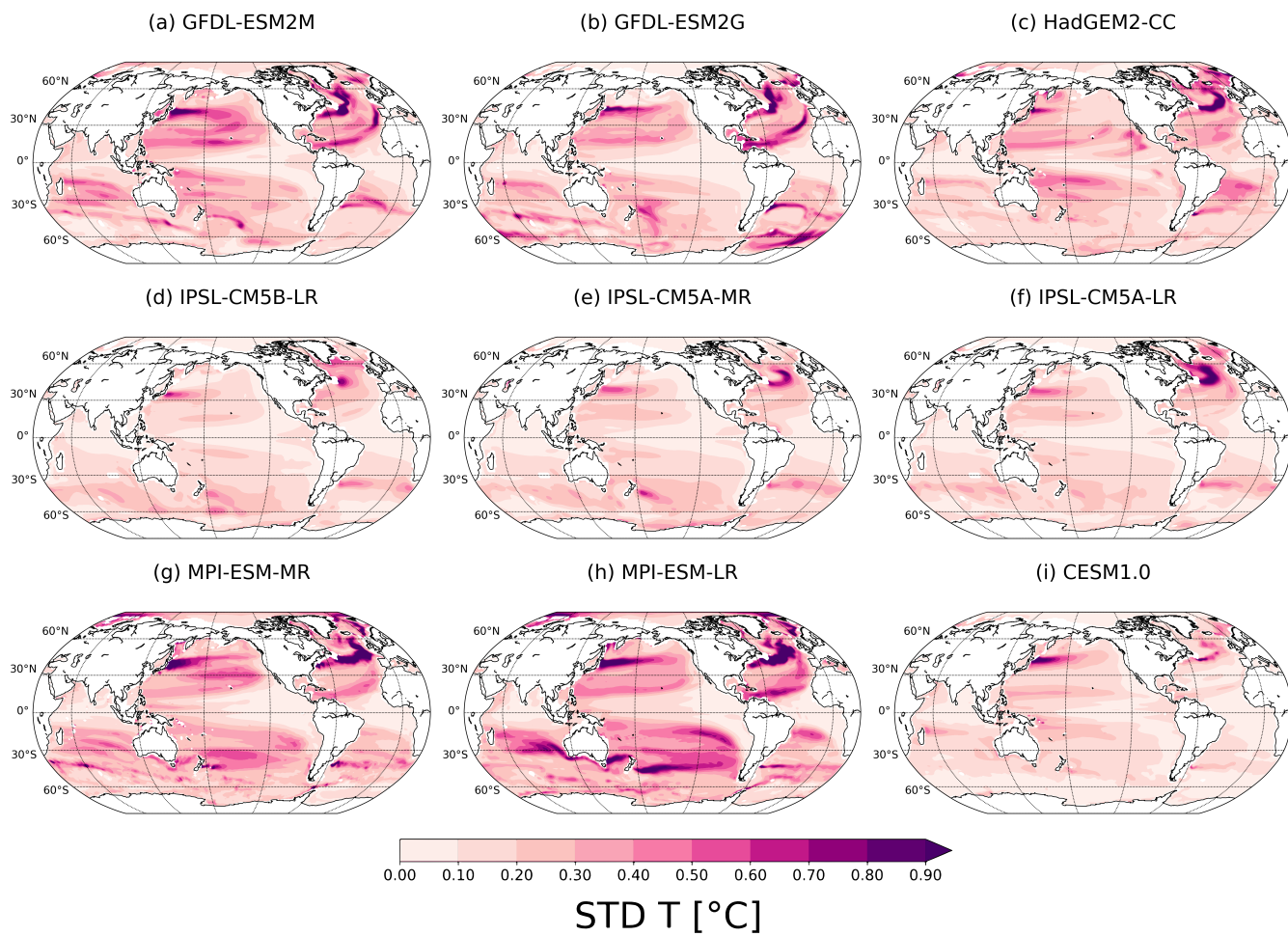
Figure S3. Standard deviation of temperature in the averaged layer 200 – 600 m of the associated control simulation.
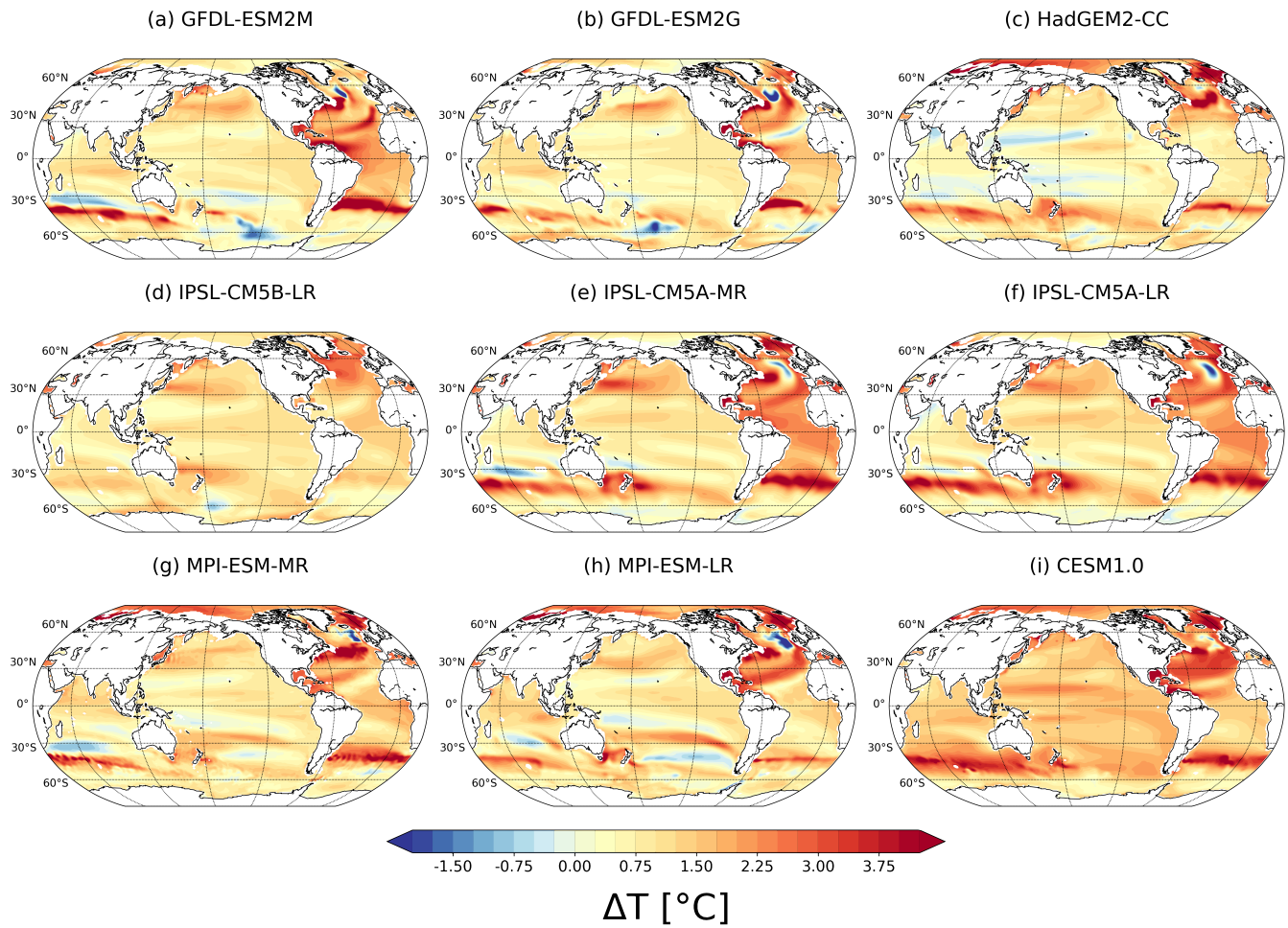
Figure S4. Anthropogenic changes ((2070-2099 CE) minus (1861-1959 CE)) in temperature.
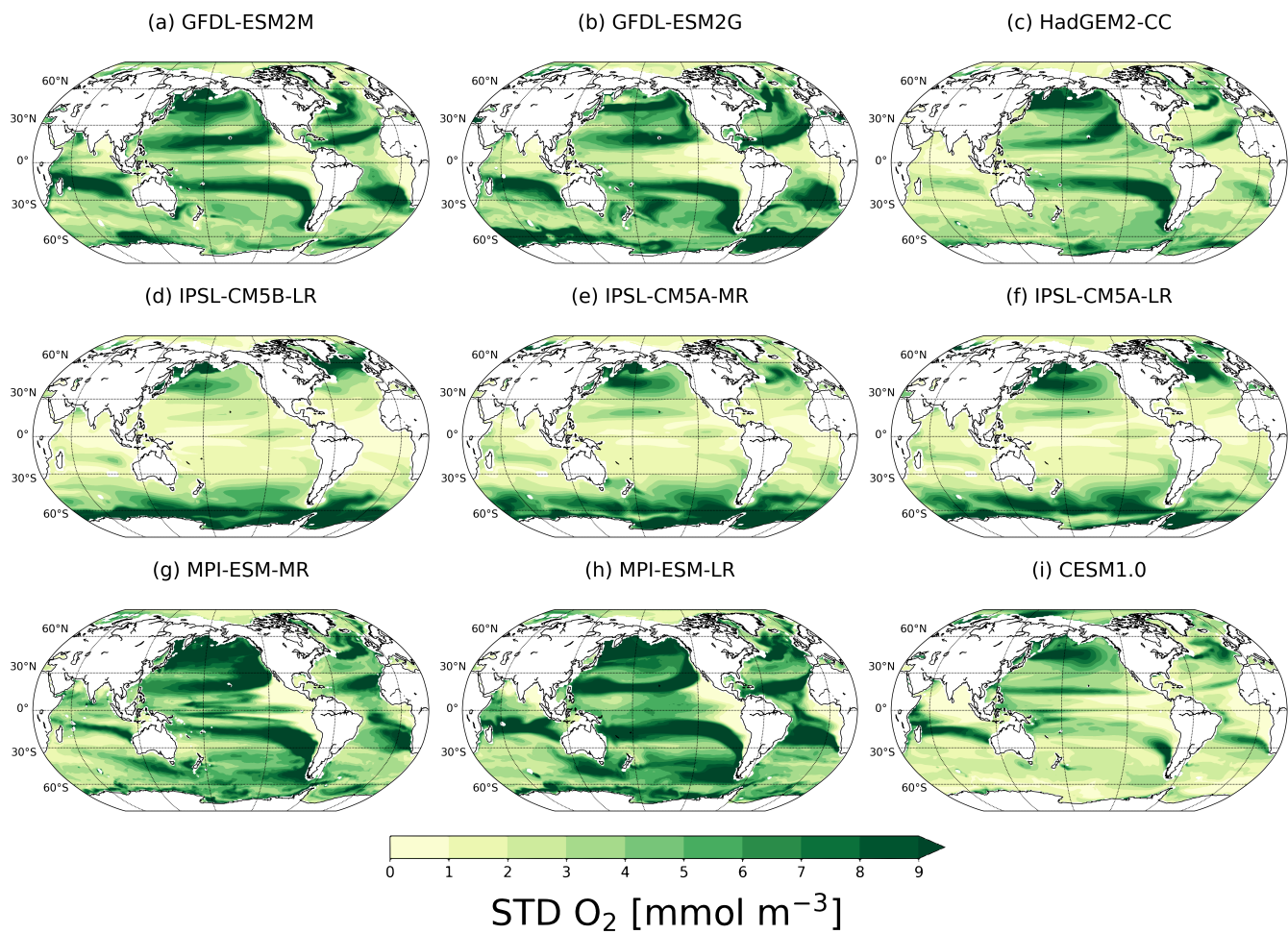
Figure S5. Standard deviation of O_2 in the averaged layer $200 - 600$ m of the associated control simulation.
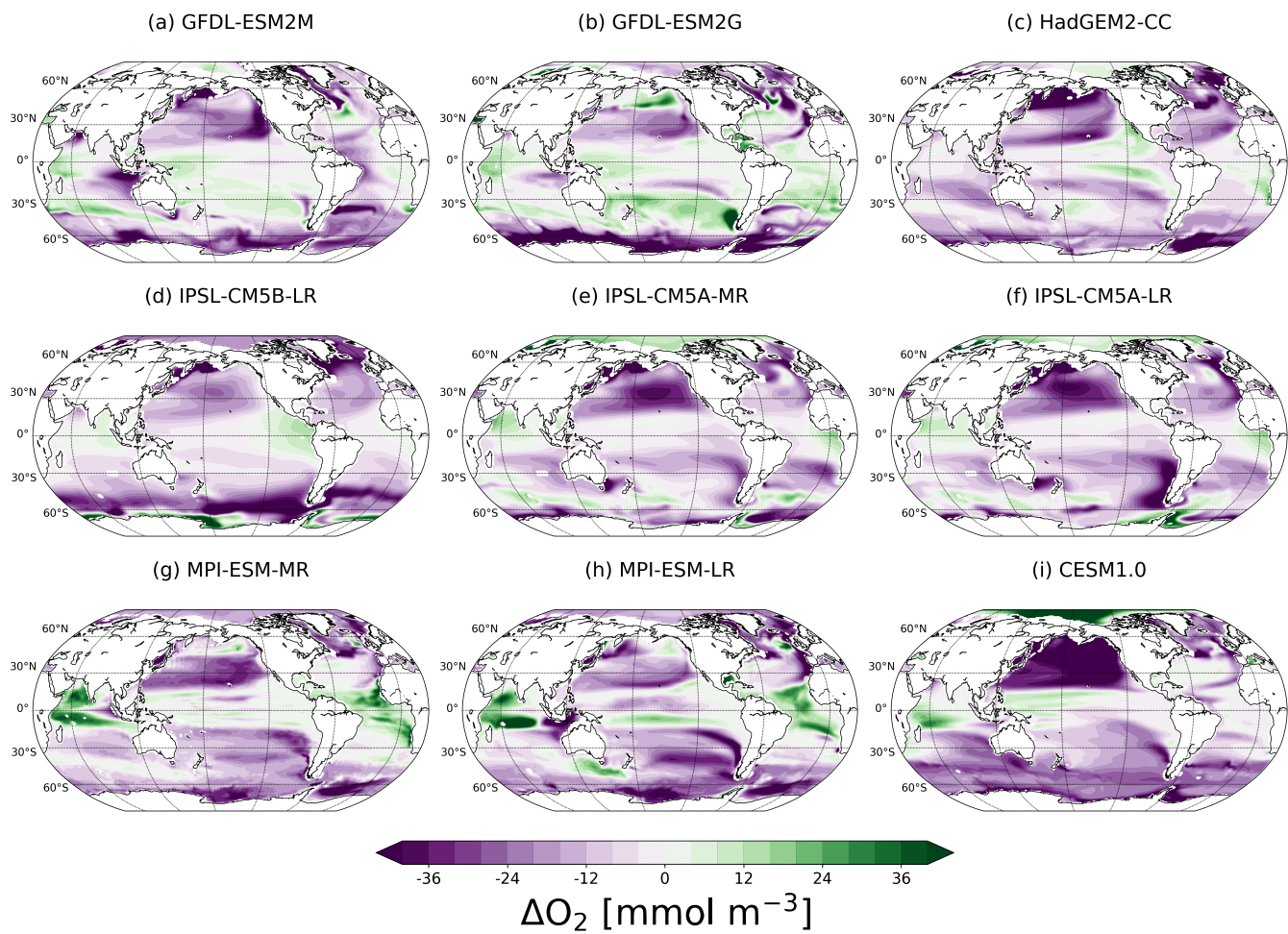
Figure S6. Anthropogenic changes ((2070-2099 CE) minus (1861-1959 CE)) in O_2.