Supplement of

Oxygen minimum zones in the tropical Pacific across CMIP5 models: mean state differences and climate change trends

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Figure S1: POC flux at 100m [gC/m²/yr] across CMIP5 models. Last three panels show POC flux in the euphotic layer derived from satellite measurements in Siegel et al. (2014), Dunne et al. (2005) and Henson et al. (2012).
Figure S2: Transfer efficiency of POC flux from 100 m to 2000 m (POC flux at 2000m divided by POC flux at 100m) across the four CMIP5 models that provided a complete depth profile for POC. Last panel shows satellite-derived results from Henson et al. (2012). Note huge variation across CMIP5 models.
Figure S3: Model performance compared to observations in different regions and depths in the Pacific during the historical period (1960-1999). a)-d) Agreement between OMZ in models and observations described as the intersection of modeled and observed OMZ volumes divided by the union of modeled and observed OMZ volumes at different $O_2$ thresholds (x axis) and in different regions as labeled. Color bars as in Fig. 7.
Figure S4: CMIP5 future projections for the period 2060-2099 with reference to the historical period (1960-1999) for oxygen concentration (mmol/m³) all averaged zonally between 180°W and 100°W in the Pacific Ocean (complementary to Fig. 8c).
Figure S5: CMIP5 future projections for the period 2060-2099 with reference to the historical period (1960-1999) for AOU (mmol/m³) all averaged zonally between 180°W and 100°W in the Pacific Ocean (complementary to Fig. 8f).
Figure S6: CMIP5 future projections for the period 2060-2099 with reference to the historical period (1960-1999) for water-mass age [years] all averaged zonally between 180°W and 100°W in the Pacific Ocean (complementary to Fig. 8l).
Figure S7: Interannual correlations calculated in a 100-year long control sample ("piControl" scenario). We show the multi-model average across all the available CMIP5 models.