



## Supplement of

## Climate, ocean circulation, and sea level changes under stabilization and overshoot pathways to 1.5 K warming

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Figure S1: Global mean temperature change in the ESM2M climate simulations (5-year running means; small dots for individual ensemble members, large dots for ensemble means) and the simple scaling described in Equation 1 of the main text (red, blue, and black lines). Red is for stabilization forcing, blue for RCP4.5, and black for overshoot.



Time (years)

Supplementary Figure S2: Globally averaged precipitation (kg m<sup>-2</sup> s<sup>-1</sup>) for the Stabilization (red), Overshoot (black), and RCP4.5 (blue) scenarios. The bold lines are ensemble means and the thin lines are individual ensemble members.



Supplementary Figure 3: The ensemble mean spatial pattern of ocean heat uptake (W m<sup>-2</sup>), averaged over the 21<sup>st</sup> century (2006-2100). The global mean value (1.28 W m<sup>-2</sup>, 1.60 W m<sup>-2</sup>, and 1.63 W m<sup>-2</sup> for Stabilization, Overshoot, and RCP4.5, respectively) was removed to emphasize the difference in the spatial patterns of heat uptake. A) Stabilization; B) Overshoot - Stabilization; c) RCP4.5 – Stabilization.

LONGITUDE