

Supporting Information

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SI Text

For comparing our GMSL curve with historical runs from CMIP5 models, we have used the sum of individually modeled contributions obtained by ref. 12. In this model data set, the output of the historical runs from CMIP5 climate models were used to derive GMSL contributions for the period 1900–2005. These contributions include: GMSL changes resulting from thermal expansion, corrected for drifts with the respective pre-

industrial control runs; glacier contributions obtained by forcing a global glacier evolution model with CMIP5 air temperatures and precipitation; and surface mass balance estimates from Greenland and Antarctica ice sheets. Contributions from TWS for the period 1900–2005 and from observed ice sheet dynamic processes (only for the period 1993–2005, as it is assumed to be negligible before) were also included. Further details on the computation can be found in ref. 12.

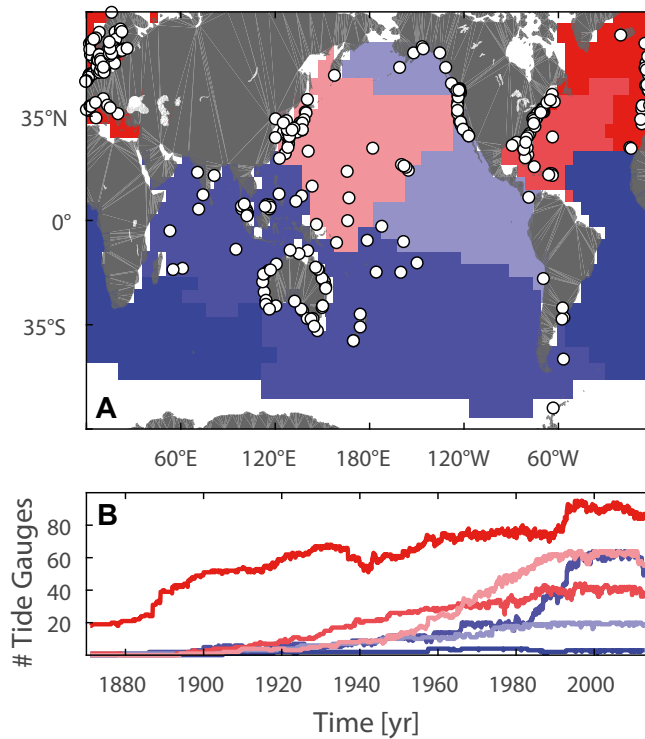


Fig. S1. Spatial and temporal availability of tide gauges used in this study. (A) Spatial distribution of the tide gauges used in this study. Also shown are the six oceanic regions, which are used to build regional virtual stations. (B) Respective temporal availability of tide gauges for each region.

