

A. Appendix: Data

Table 2. CMIP6 models and realisations used to produce the results presented in Section 4

Model name	Realisations	Experiment
GFDL-ESM4	r1i1p1f1	Historical
IPSL-CM6A-LR	r1i1p1f1	Historical
MPI-ESM1-2-HR	r1i1p1f1	Historical
MRI-ESM2-0	r1i1p1f1	Historical
UKESM1-0-LL	r1i1p1f2	Historical

B. Appendix: Additional experiments

An additional set of experiments for Nairobi using an arbitrarily-chosen alternative realisation from each climate model was conducted. These realisations were GFDL-ESM4 r1i1p1f1, IPSL-CM6A-LR r4i1p1f1, MPI-ESM1-2-HR r2i1p1f1, MRI-ESM2-0 r5i1p1f1 and UKESM1-0-LL r2i1p1f2 (note that an alternative realisation for GFDL-ESM4 was unavailable). The results for RMSE for all days, RMSE for extreme heat days, and model weights assigned from each ensemble method from this experiment are shown in Figure 7.

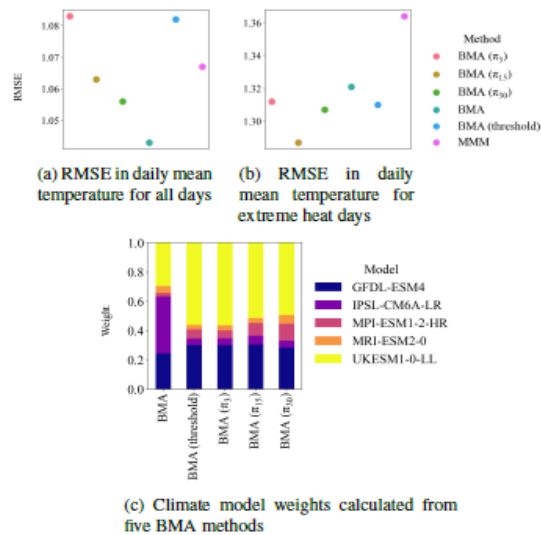


Figure 7. Results for six ensemble methods for Nairobi using alternative model realisations, showing 7a: RMSE for predicting daily average temperature for all days, 7b: RMSE for predicting daily average temperature for extreme heat days, and 7c: model weights from BMA methods.