



Supplement of

Investigation of Uncertainties in Multi-variable Bias Adjustment in Multi-model Ensemble

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T2 for July without Bias Adjustment

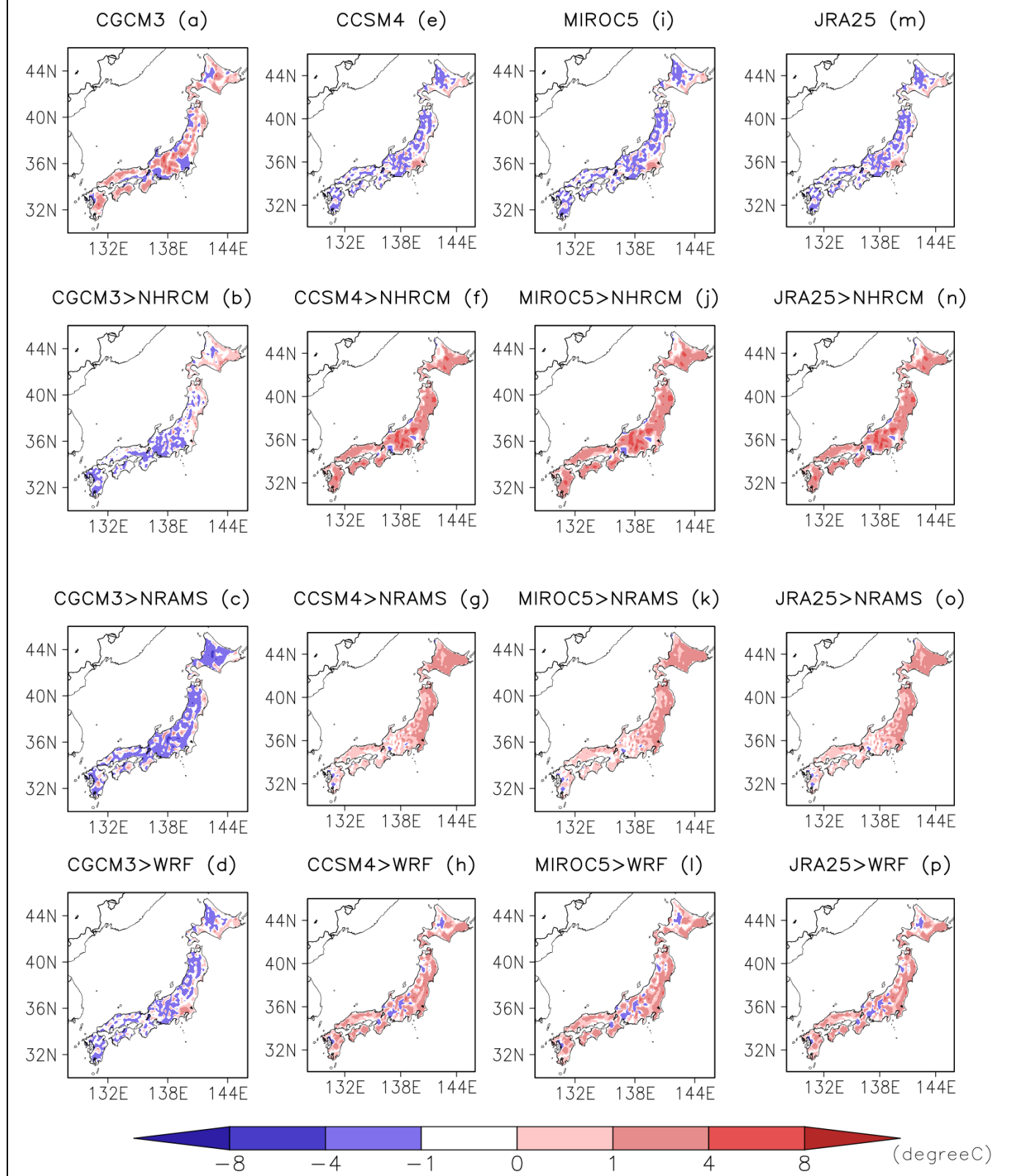


Figure S1: Bias in surface air temperature (T2) before the bias adjustment for GCMs, JRA25 (Top row), and corresponding RCMs.

T2 for July with Bias Adjustment

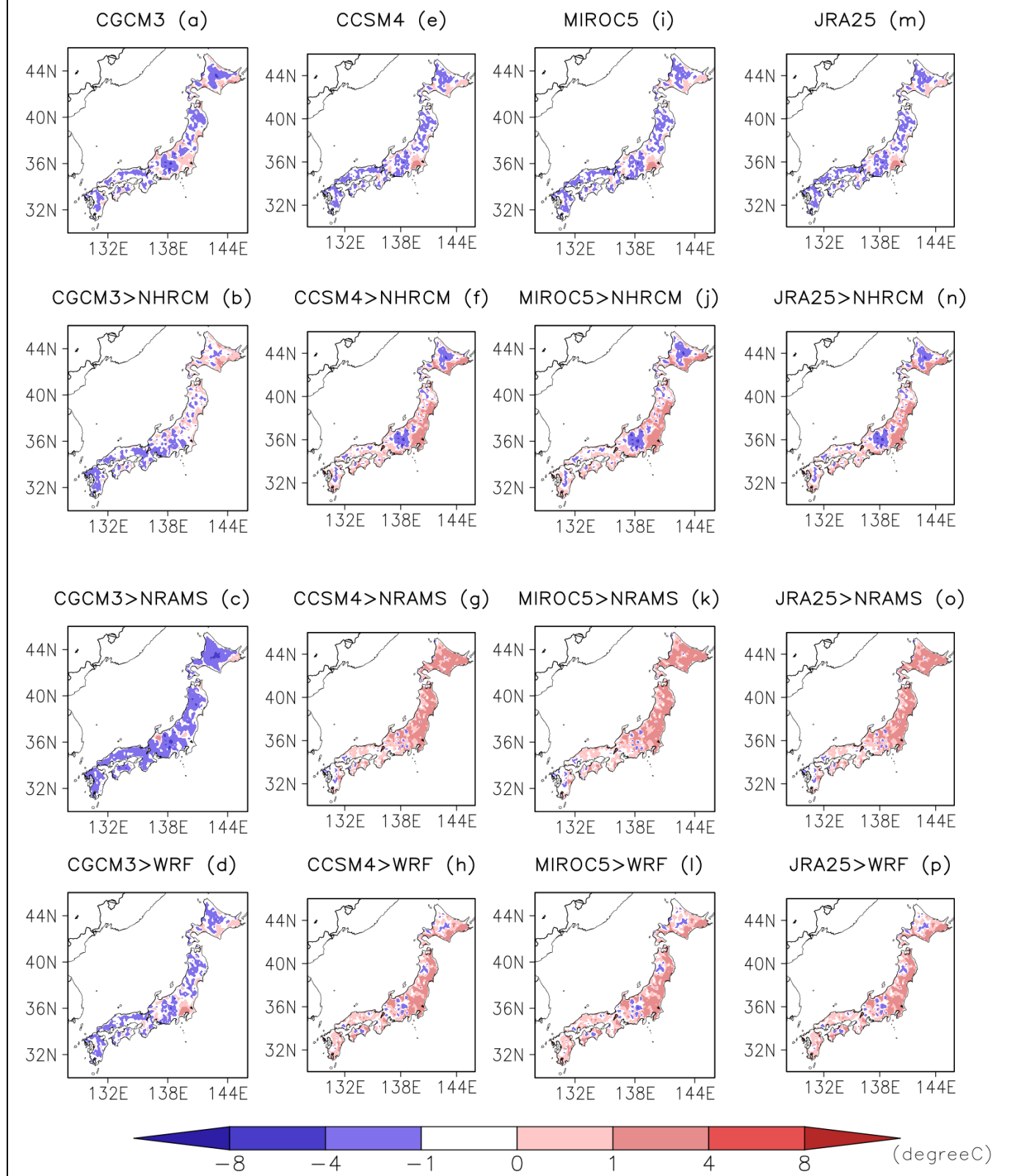


Figure S2: Bias in surface air temperature (T2) after the bias adjustment for GCMs, JRA25 (Top row), and corresponding RCMs.

Difference in T2 Bias for July

$$\text{Difference} = |\text{T2 before adjustment}| - |\text{T2 after adjustment}|$$

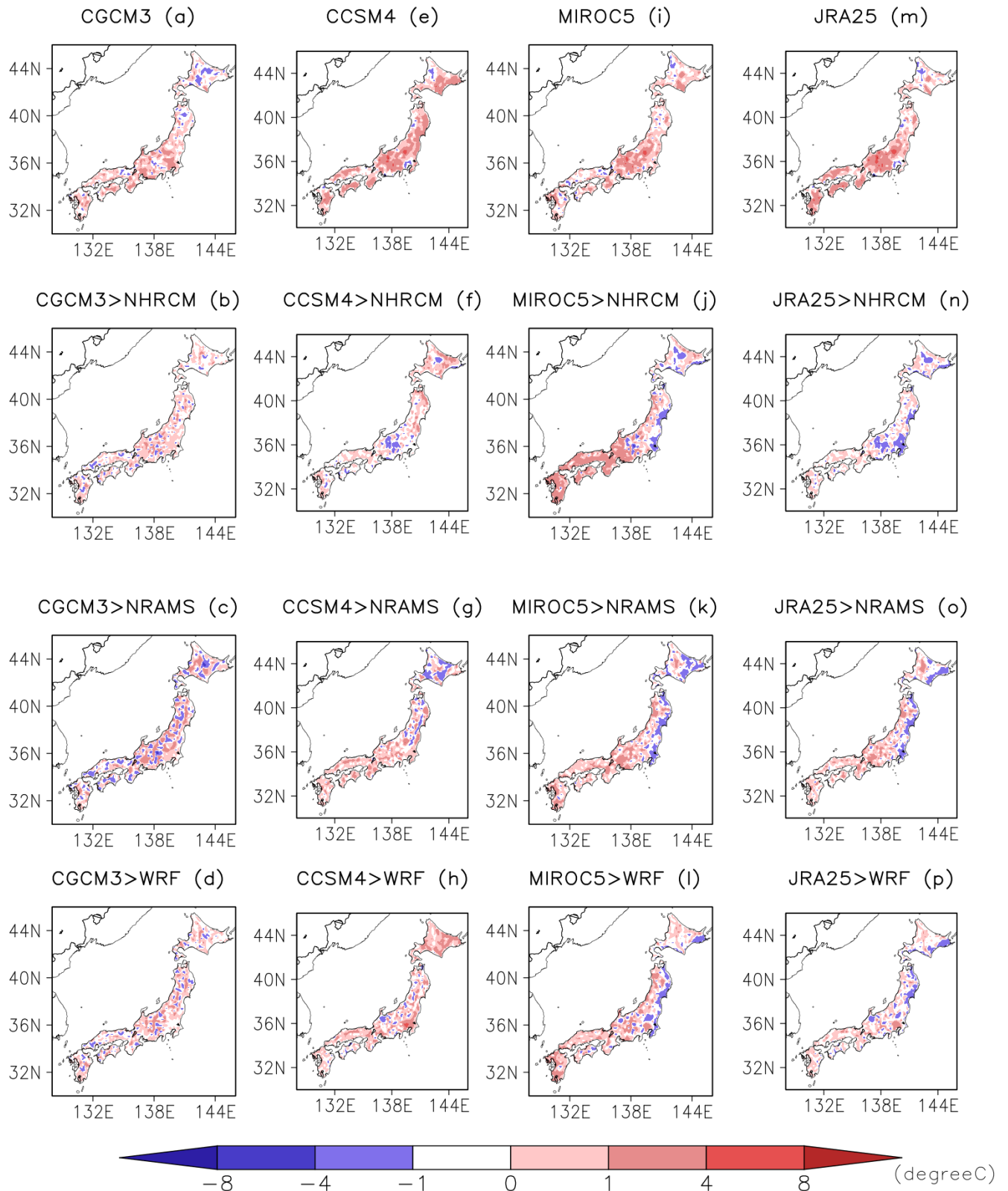


Figure S3: Absolute difference between bias before and after the adjustment for surface air temperature (T2) GCMs, JRA25 (Top row), and corresponding RCMs.

Bias RH before Bias Adjustment for July

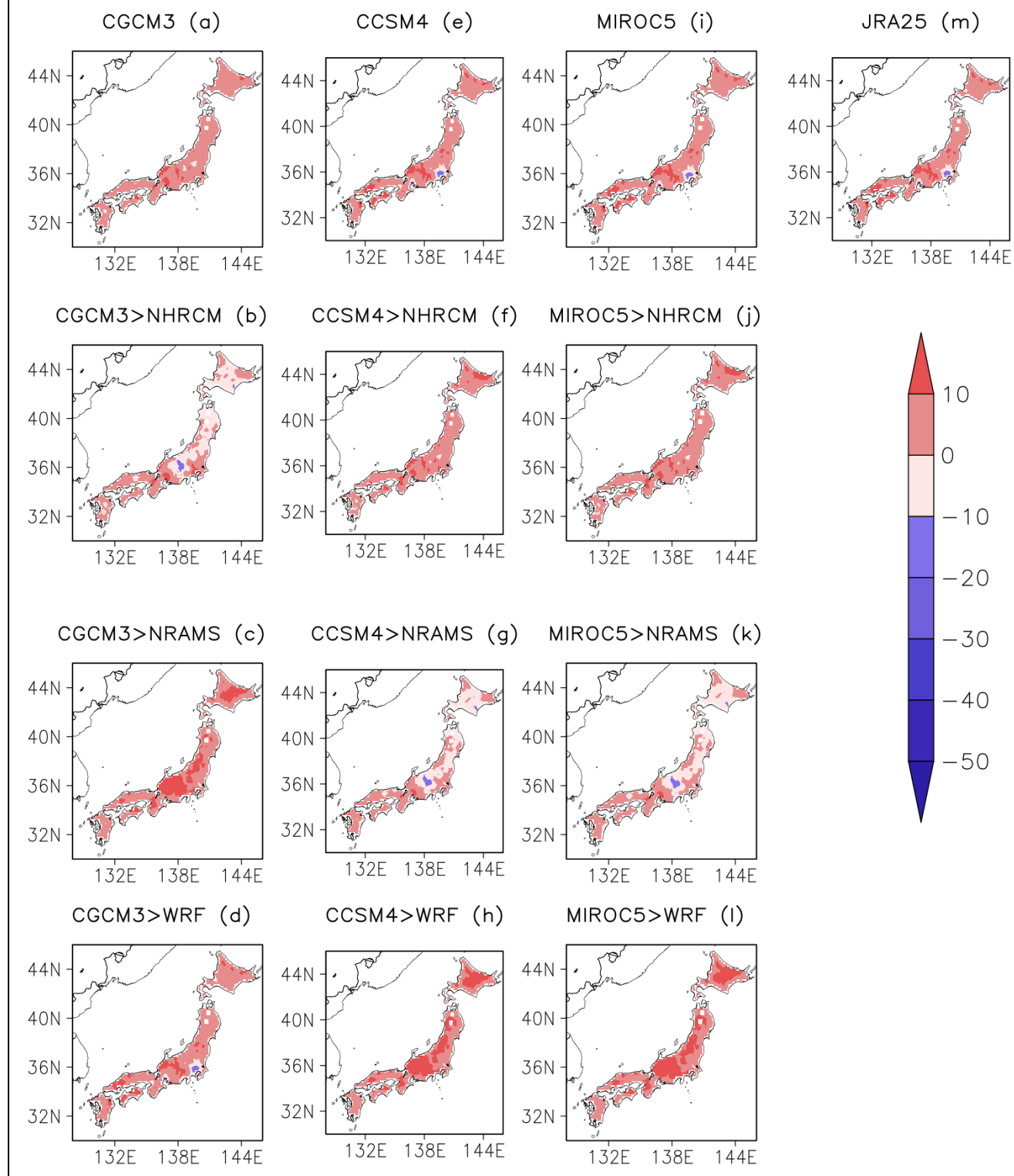


Figure S4: Bias in relative humidity (RH) before the bias adjustment for GCMs, JRA25 (Top row), and corresponding RCMs.

Bias RH after Bias Adjustment for July

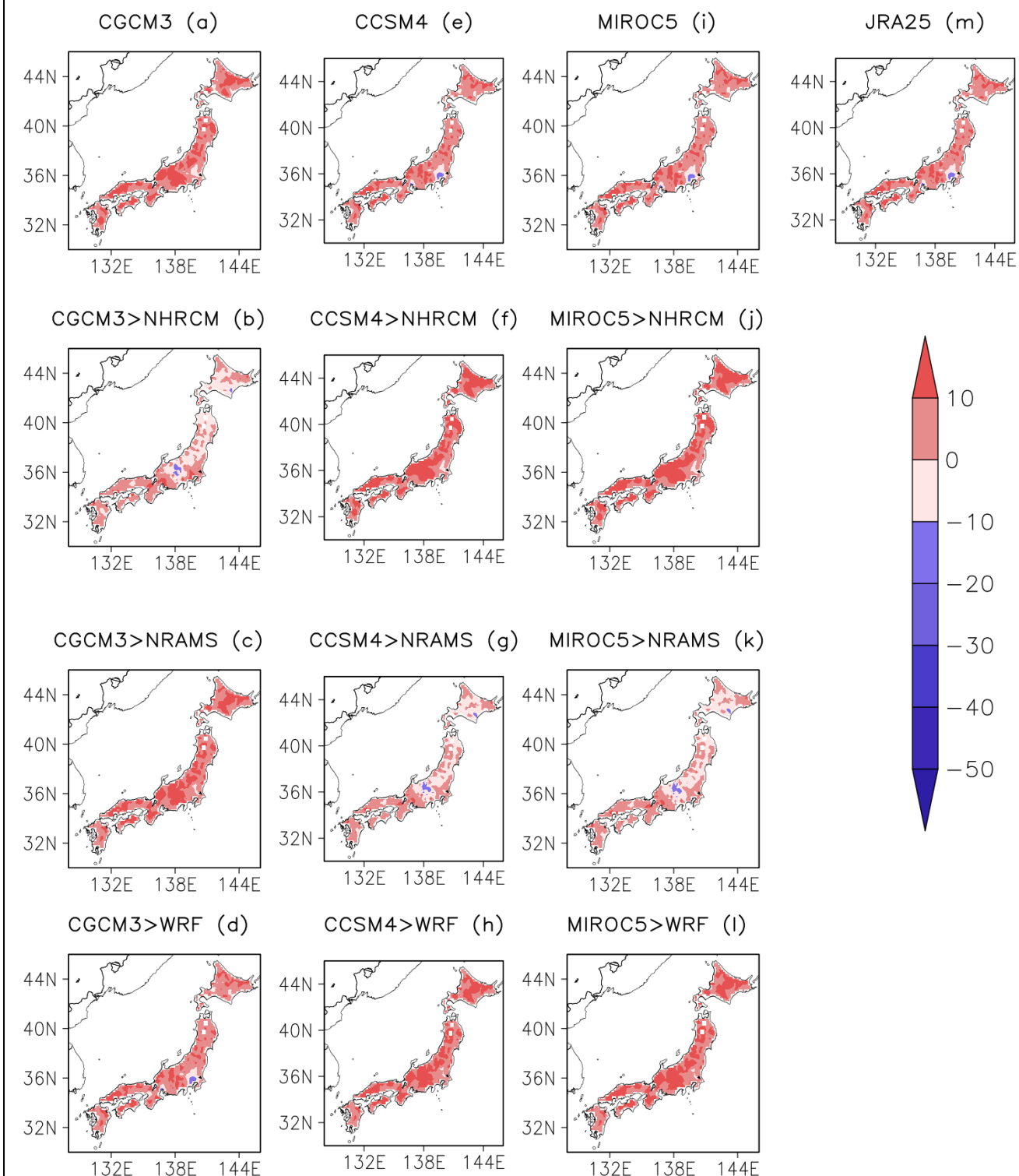


Figure S5: Bias in relative humidity (RH) after the bias adjustment for GCMs, JRA25 (Top row), and corresponding RCMs.

Difference in RH Bias for July

$$\text{Difference} = |\text{RH before adjustment}| - |\text{RH after adjustment}|$$

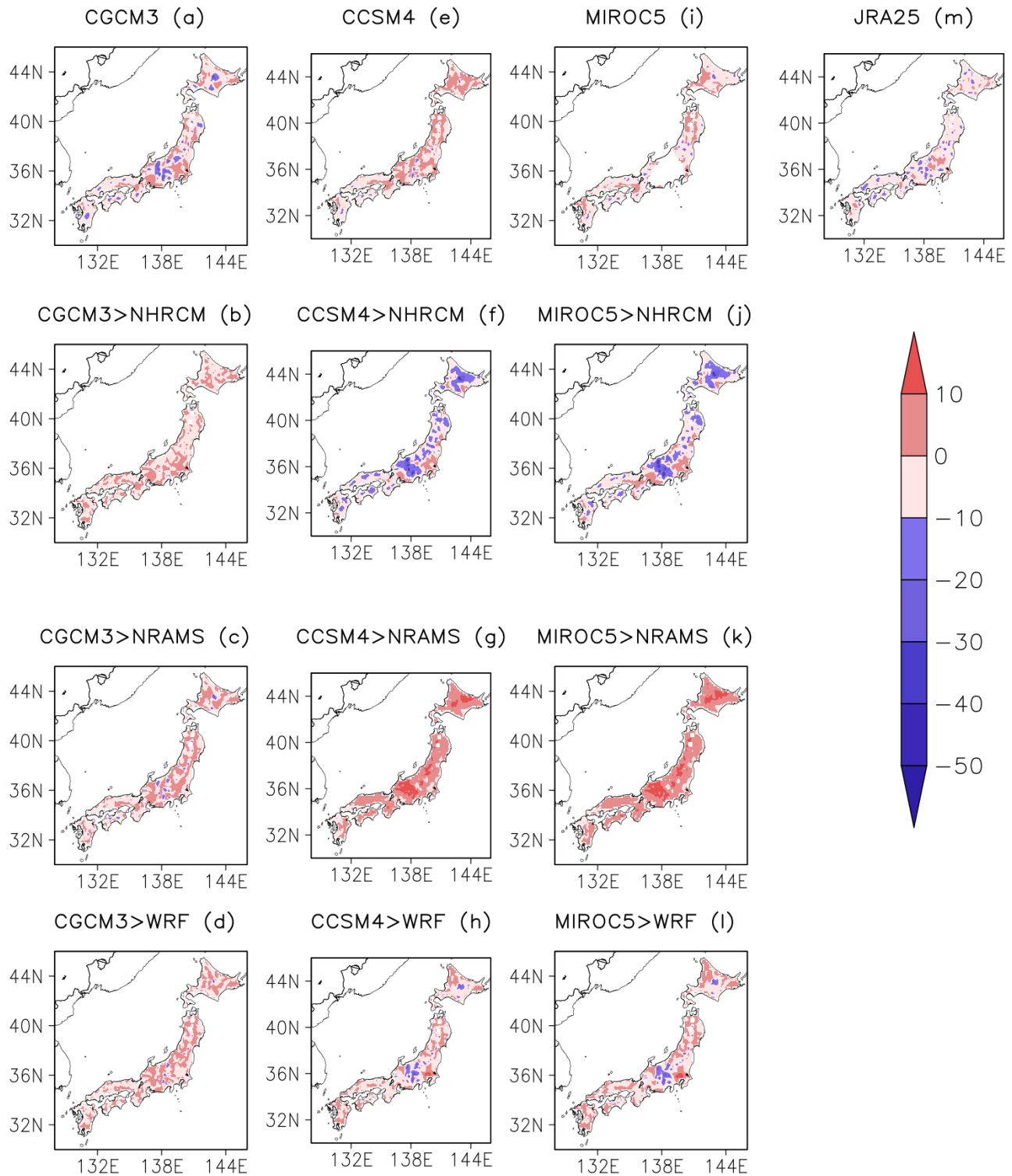


Figure S6: Absolute difference between bias before and after the adjustment for relative humidity (RH) GCMs, JRA25 (Top row), and corresponding RCMs.