Table S4: p-values and 95% confidence intervals (corrected with Bonferroni) corresponding to the differences indicated in Table 4. Boundaries for p-values are defined according to the TOAR-II Recommendations for Statistical Analysis (Chang et al. 2023). p<0.01 indicates very high certainty and p>0.33 indicates very low certainty or no evidence.

	2050 ΔΡΟD6			2100 ΔΡΟD ₆		
Region ^b	[mmol m ⁻²]			[mmol m ⁻²]		
	SSP1	SSP3	SSP5	SSP1	SSP3	SSP5
East Asia	0.02 [-1.25,-0.03]	<0.01 [-0.16,0.98]	0.04 [0.01,1.03]	<0.01 [-1.72,-0.72]	>0.33 [-0.36,0.78]	>0.33 [-1.07,0.17]
South-East Asia	>0.33 [-0.38,0.06]	<0.01 [0.38,0.84]	<0.01 [0.34,0.82]	<0.01 [-0.78,-0.40]	<0.01 [0.43,0.89]	0.05 [-0.40,0.00]
South Asia	>0.33 [-0.45,0.43]	< 0.01 [0.59,1.65]	<0.01 [0.19,1.29]	0.02 [-0.89,-0.03]	<0.01 [0.81,1.91]	>0.33 [-0.21,0.77]
Central Asia	<0.01 [-0.40,-0.10]	< 0.01 [0.44,0.86]	0.01 [0.04,0.50]	<0.01 [-0.52,-0.24]	<0.01 [0.38,0.78]	>0.33 [-0.22,0.10]
North America	<0.01 [-2.13,-0.47]	0.23 [-1.59,0.09]	>0.33 [-1.49,0.23]	<0.01 [-2.19,-0.55]	<0.01 [-1.81,-0.15]	>0.33 [-1.43,0.27]
Central America	<0.01 [-0.58,-0.42]	<0.01 [0.23,0.47]	<0.01 [0.49,0.73]	<0.01 [-0.79,-0.63]	<0.01 [0.31,0.59]	<0.01 [-0.35,-0.13]
South America	0.29 [-1.03,0.09]	>0.33 [-0.31,0.89]	>0.33 [-0.38,0.82]	0.02 [-1.16,-0.04]	>0.33 [-0.26,0.88]	>0.33 [-0.90,0.24]
RusBelUk.	<0.01 [-1.11,-0.31]	>0.33 [-0.64,0.34]	>0.33 [-0.71,0.17]	<0.01 [-1.19,-0.43]	>0.33 [-0.68,0.24]	>0.33 [-0.75,0.15]
Europe	<0.01 [-1.36,-0.42]	>0.33 [-0.69,0.29]	>0.33 [-0.68,0.42]	<0.01 [-1.43,-0.51]	>0.33 [-0.73,0.23]	>0.33 [-0.55,0.45]
North Africa	<0.01 [-0.56,-0.42]	<0.01 [0.26,0.44]	<0.01 [0.10,0.28]	<0.01 [-0.71,-0.57]	<0.01 [0.29,0.49]	<0.01 [-0.19,-0.03]
Sub-Saharan Africa	0.18 [-0.01,0.13]	<0.01 [0.38,0.60]	<0.01 [0.68,0.88]	<0.01 [-0.30,-0.18]	<0.01 [0.83,1.03]	<0.01 [0.40,0.74]
Middle East	<0.01 [-0.48,-0.18]	<0.01 [0.45,0.81]	>0.33 [-0.14,0.34]	<0.01 [-0.75,-0.53]	<0.01 [0.53,0.83]	>0.33 [-0.20,0.1]

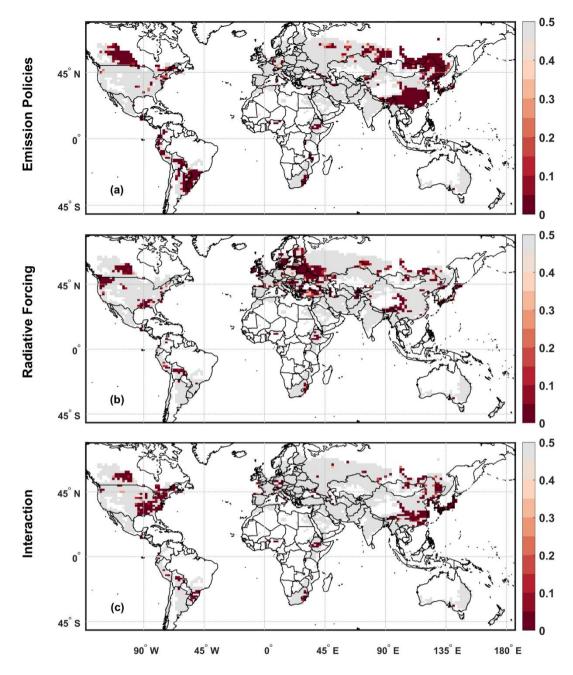


Figure S3: p-values for the ANOVA (Figure 8) corresponding to the factors: (a) Emission Policies (EP), (b) Radiative Forcing (RF), and (c) Interaction (I).