

Appendix 7

Table A7.7: Results of comparison of different climate scenarios for each dependent variable (elevation, slope, latitude and longitude) performed by post-hoc Dunn test. Variable - Variables compared in post-hot Dunn test (elevation, slope, latitude and longitude); Samples - Present day and future samples (2050 and 2070) compared in the two future contrasting emission scenarios of the Intergovernmental Panel on Climate Change (IPCC), Fifth Assessment Report-Coupled Model Intercomparison Project, Phase 5 (AR-CMIP5) / Representative Concentration Pathway (RCP) 4.5 - lower energy demand, and IPCC AR-CMIP 5 / RCP 8.5 - maximum power requirement, balanced emissions from fossil fuels and non-fossil fuels; post-hoc Dunn test statistic; *P*-adjusted.

Variable	Comparison	Z	P.adjusted
Elevation	Present - 2050 rcp4.5	-97.897	<0.001
Elevation	Present - 2070 rcp4.5	-111.98	<0.001
Elevation	2050 rcp 4.5 - 2070 rcp 4.5	-22.046	<0.001
Elevation	Present - 2050 rcp 8.5	-111.702	<0.001
Elevation	2050 rcp 4.5 - 2050 rcp 8.5	-25.583	<0.001
Elevation	2070 rcp 4.5 - 2050 rcp 8.5	-4.08	<0.001
Elevation	Present - 2070 rcp 8.5	-93.668	<0.001
Elevation	2050 rcp 4.5 - 2070 rcp 8.5	-52.084	<0.001
Elevation	2070 rcp 4.5 - 2070 rcp 8.5	-40.426	<0.001
Elevation	2050 rcp 8.5 - 2070 rcp 8.5	-37.871	<0.001
Slope	Present - 2050 rcp 4.5	-84.449	<0.001
Slope	Present - 2070 rcp 4.5	-93.561	<0.001
Slope	2050 rcp 4.5- 2070 rcp 4.5	-16.414	<0.001
Slope	Present - 2050 rcp 8.5	-93.6	<0.001
Slope	2050 rcp 4.5 - 2050 rcp 8.5	-19.669	<0.001
Slope	2070 rcp 4.5 - 2050 rcp8.5	-3.607	0.003
Slope	Present - 2070 rcp 8.5	-65.895	<0.001
Slope	2050 rcp 4.5 - 2070 rcp 8.5	-31.141	<0.001
Slope	2070 rcp 4.5 - 2070 rcp 8.5	-22.768	<0.001
Slope	2050 rcp 8.5 - 2070 rcp 8.5	-20.674	<0.001
Latitude	Present - 2050 rcp 4.5	-22.443	<0.001
Latitude	Present - 2070 rcp 4.5	-23.132	<0.001
Latitude	2050 rcp 4.5 - 2070 rcp 4.5	-2.725	0.064
Latitude	Present - 2050 rcp 8.5	-20.711	<0.001
Latitude	2050 rcp 4.5 - 2050 rcp 8.5	-1.343	1
Latitude	2070 rcp 4.5 - 2050 rcp 8.5	1.192	1
Latitude	Present - 2070 rcp 8.5	-10.259	<0.001
Latitude	2050 rcp 4.5 - 2070 rcp 8.5	-0.944	1
Latitude	2070 rcp 4.5 - 2070 rcp 8.5	0.391	1
Latitude	2050 rcp 8.5 - 2070 rcp 8.5	-0.249	1

Longitude	Present - 2050 rcp 4.5	4.122	<0.001
Longitude	Present - 2070 rcp 4.5	-8.497	<0.001
Longitude	2050 rcp 4.5 - 2070 rcp 4.5	-11.188	<0.001
Longitude	Present - 2050 rcp 8.5	-18.589	<0.001
Longitude	2050 rcp 4.5 - 2050 rcp 8.5	-20.434	<0.001
Longitude	2070 rcp 4.5 - 2050 rcp 8.5	-9.018	<0.001
Longitude	Present - 2070 rcp 8.5	-5.784	<0.001
Longitude	2050 rcp 4.5 - 2070 rcp 8.5	-7.345	<0.001
Longitude	2070 rcp 4.5- 2070 rcp 8.5	-1.795	0.727
Longitude	2050 rcp 8.5 - 2070 rcp 8.5	3.038	0.024