Climate Projections for the National Capital Region

Volume 2: Plots and Tabular Data for all the Climate Indices

June 2020

Ottawa

NCC
CCN

List of Figures

Appendix F - Plots of Climate Indices 11

F1.1 Warmest Temperature of the Year. . . . 16
F1.2 Warmest Temperature of the Year. . . . 16
F1.3 Warmest Temperature of the Year - Baseline. . . . 17
F1.4 Warmest Temperature of the Year - 2030s RCP 4.5. . . . 18
F1.5 Warmest Temperature of the Year - 2030s RCP 8.5. . . . 18
F1.6 Warmest Temperature of the Year - 2050s RCP 4.5. . . . 19
F1.7 Warmest Temperature of the Year - 2050s RCP 8.5. . . . 19
F1.8 Warmest Temperature of the Year - 2080s RCP 4.5. . . . 20
F1.9 Warmest Temperature of the Year - 2080s RCP 8.5. . . . 20
F1.10 Coldest Temperature of the Year. . . . 21
F1.11 Coldest Temperature of the Year. . . . 21
F1.12 Coldest Temperature of the Year - Baseline. . . . 22
F1.13 Coldest Temperature of the Year - 2030s RCP 4.5. . . . 23
F1.14 Coldest Temperature of the Year - 2030s RCP 8.5. . . . 23
F1.15 Coldest Temperature of the Year - 2050s RCP 4.5. . . . 24
F1.16 Coldest Temperature of the Year - 2050s RCP 8.5. . . . 24
F1.17 Coldest Temperature of the Year - 2080s RCP 4.5. . . . 25
F1.18 Coldest Temperature of the Year - 2080s RCP 8.5. . . . 25
F1.19 Warmest Monthly Temperature - January. . . . 26
F1.20 Warmest Monthly Temperature - January. . . . 26
F1.21 Warmest Monthly Temperature - February. . . . 27
F1.22 Warmest Monthly Temperature - February. . . . 27
F1.23 Warmest Monthly Temperature - March. . . . 28
F1.24 Warmest Monthly Temperature - March. . . . 28
F1.25 Warmest Monthly Temperature - April. . . . 29
F1.26 Warmest Monthly Temperature - April. . . . 29
F1.27 Warmest Monthly Temperature - May. . . . 30
F1.28 Warmest Monthly Temperature - May. . . . 30
F1.29 Warmest Monthly Temperature - June. . . . 31
F1.30 Warmest Monthly Temperature - June. . . . 31
F1.31 Warmest Monthly Temperature - July. . . . 32
F1.32 Warmest Monthly Temperature - July. . . . 32
F1.33 Warmest Monthly Temperature - August. . . . 33
F1.34 Warmest Monthly Temperature - August. . . . 33
F1.35 Warmest Monthly Temperature - September. . . . 34
F1.36 Warmest Monthly Temperature - September. . . . 34
F1.37 Warmest Monthly Temperature - October. . . . 35
F1.38 Warmest Monthly Temperature - October. . . . 35
F1.39 Warmest Monthly Temperature - November. . . . 36
F1.40 Warmest Monthly Temperature - November. . . . 36
F1.41 Warmest Monthly Temperature - December. . . . 37
F1.42 Warmest Monthly Temperature - December. . . . 37
F1.43 Warmest Monthly Temperature. . . . 38
F1.44 Warmest Monthly Temperature. Dashed lines indicate the 10% and 90% percentile. . . . 39

F1.45 Coldest Monthly Temperature - January. . . . 40
F1.46 Coldest Monthly Temperature - January. . . . 40
F1.47 Coldest Monthly Temperature - February. . . . 41
F1.48 Coldest Monthly Temperature - February. . . . 41
F1.49 Coldest Monthly Temperature - March. . . . 42
F1.50 Coldest Monthly Temperature - March. . . . 42
F1.51 Coldest Monthly Temperature - April. . . . 43
F1.52 Coldest Monthly Temperature - April. . . . 43
F1.53 Coldest Monthly Temperature - May. . . . 44
F1.54 Coldest Monthly Temperature - May. . . . 44
F1.55 Coldest Monthly Temperature - June. . . . 45
F1.56 Coldest Monthly Temperature - June. . . . 45
F1.57 Coldest Monthly Temperature - July. . . . 46
F1.58 Coldest Monthly Temperature - July. . . . 46
F1.59 Coldest Monthly Temperature - August. . . . 47
F1.60 Coldest Monthly Temperature - August. . . . 47
F1.61 Coldest Monthly Temperature - September. . . . 48
F1.62 Coldest Monthly Temperature - September. . . . 48
F1.63 Coldest Monthly Temperature - October. . . . 49
F1.64 Coldest Monthly Temperature - October. . . . 49
F1.65 Coldest Monthly Temperature - November. . . . 50
F1.66 Coldest Monthly Temperature - November. . . . 50
F1.67 Coldest Monthly Temperature - December. . . . 51
F1.68 Coldest Monthly Temperature - December. . . . 51
F1.69 Coldest Monthly Temperature. . . . 52
F1.70 Coldest Monthly Temperature. Dashed lines indicate the 10% and 90% percentile. . . . 53
F1.71 Number of Hot Days (Daily Max. Temperature > 30^{o}C). . . . 54
F1.72 Number of Hot Days (Daily Max. Temperature > 30^{o}C). . . . 54
F1.73 Number of Hot Days (Daily Max. Temperature > 30^{o}C) - Baseline. . . . 55
F1.74 Number of Hot Days (Daily Max. Temperature > 30^{o}C) - 2030s RCP 4.5. . . . 56
F1.75 Number of Hot Days (Daily Max. Temperature > 30^{o}C) - 2030s RCP 8.5. . . . 56
F1.76 Number of Hot Days (Daily Max. Temperature > 30^{o}C) - 2050s RCP 4.5. . . . 57
F1.77 Number of Hot Days (Daily Max. Temperature > 30^{o}C) - 2050s RCP 8.5. . . . 57
F1.78 Number of Hot Days (Daily Max. Temperature > 30^{o}C) - 2080s RCP 4.5. . . . 58
F1.79 Number of Hot Days (Daily Max. Temperature > 30^{o}C) - 2080s RCP 8.5. . . . 58
F1.80 Number of Tropical Nights (Daily. Min Temperature > 20^{o}C). . . . 59
F1.81 Number of Tropical Nights (Daily. Min Temperature > 20^{o}C). . . . 59
F1.82 Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - Baseline. . . . 60
F1.83 Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2030s RCP 4.5. . . . 61
F1.84 Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2030s RCP 8.5. . . . 61
F1.85 Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2050s RCP 4.5. . . . 62
F1.86 Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2050s RCP 8.5. . . . 62
F1.87 Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2080s RCP 4.5. . . . 63
F1.88 Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2080s RCP 8.5. . . . 63
F1.89 Number of Deep Freeze Events (Daily Min. Temperature < -10^{o}C). . . . 64
F1.90 Number of Deep Freeze Events (Daily Min. Temperature < -10^{o}C). . . . 64
F1.91 Number of Deep Freeze Events (Daily Min. Temperature < -10^{o}C) - Baseline. . . . 65
F1.92 Number of Deep Freeze Events (Daily Min. Temperature < -10^{o}C) - 2030s RCP 4.5. . . . 66
F1.93 Number of Deep Freeze Events (Daily Min. Temperature < -10^{o}C) - 2030s RCP 8.5. . . . 66
F1.94 Number of Deep Freeze Events (Daily Min. Temperature < -10^{o}C) - 2050s RCP 4.5. . . . 67
F1.95 Number of Deep Freeze Events (Daily Min. Temperature < -10^{o}C) - 2050s RCP 8.5. . . . 67
F1.96 Number of Deep Freeze Events (Daily Min. Temperature < -10^{o}C) - 2080s RCP 4.5. . . . 68
F1.97 Number of Deep Freeze Events (Daily Min. Temperature < -10^{o}C) - 2080s RCP 8.5. . . . 68
F1.98 Annual Average Temperature. . . . 69
F1.99 Annual Average Temperature. . . . 69
F1.100 Annual Average Temperature - Baseline. . . . 70

F1.101 Annual Average Temperature - 2030s RCP 4.5. . . . 71
F1.102 Annual Average Temperature - 2030s RCP 8.5. . . . 71
F1.103 Annual Average Temperature - 2050s RCP 4.5. . . . 72
F1.104 Annual Average Temperature - 2050s RCP 8.5. . . . 72
F1.105 Annual Average Temperature - 2080s RCP 4.5. . . . 73
F1.106 Annual Average Temperature - 2080s RCP 8.5. . . . 73
F1.107 Seasonal Average Temperature - Fall. . . . 74
F1.108 Seasonal Average Temperature - Fall. . . . 74
F1.109 Seasonal Average Temperature - Winter. . . . 75
F1.110 Seasonal Average Temperature - Winter. . . . 75
F1.111 Seasonal Average Temperature - Spring. . . . 76
F1.112 Seasonal Average Temperature - Spring. . . . 76
F1.113 Seasonal Average Temperature - Summer. . . . 77
F1.114 Seasonal Average Temperature - Summer. . . . 77
F1.115 Monthly Average Temperature - January. . . . 78
F1.116 Monthly Average Temperature - January. . . . 78
F1.117 Monthly Average Temperature - February. . . . 79
F1.118 Monthly Average Temperature - February. . . . 79
F1.119 Monthly Average Temperature - March. . . . 80
F1.120 Monthly Average Temperature - March. . . . 80
F1.121 Monthly Average Temperature - April. . . . 81
F1.122 Monthly Average Temperature - April. . . . 81
F1.123 Monthly Average Temperature - May. . . . 82
F1.124 Monthly Average Temperature - May. . . . 82
F1.125 Monthly Average Temperature - June. . . . 83
F1.126 Monthly Average Temperature - June. . . . 83
F1.127 Monthly Average Temperature - July. . . . 84
F1.128 Monthly Average Temperature - July. . . . 84
F1.129 Monthly Average Temperature - August. . . . 85
F1.130 Monthly Average Temperature - August. . . . 85
F1.131 Monthly Average Temperature - September. . . . 86
F1.132 Monthly Average Temperature - September. . . . 86
F1.133 Monthly Average Temperature - October. . . . 87
F1.134 Monthly Average Temperature - October. . . . 87
F1.135 Monthly Average Temperature - November. . . . 88
F1.136 Monthly Average Temperature - November. . . . 88
F1.137 Monthly Average Temperature - December. . . . 89
F1.138 Monthly Average Temperature - December. . . . 89
F1.139 Monthly Average Temperature. . . . 90
F1.140 Monthly Average Temperature. Dashed lines indicate the 10% and 90% percentile. . . . 91
F1.141 Growing Season Length. . . . 92
F1.142 Growing Season Length. . . . 92
F1.143 Growing Season Length - Baseline. . . . 93
F1.144 Growing Season Length - 2030s RCP 4.5. . . . 94
F1.145 Growing Season Length - 2030s RCP 8.5. . . . 94
F1.146 Growing Season Length - 2050s RCP 4.5. . . . 95
F1.147 Growing Season Length - 2050s RCP 8.5. . . . 95
F1.148 Growing Season Length - 2080s RCP 4.5. . . . 96
F1.149 Growing Season Length - 2080s RCP 8.5. . . . 96
F1.150 Frost Season Length. . . . 97
F1.151 Frost Season Length. . . . 97
F1.152 Frost Season Length - Baseline. . . . 98
F1.153 Frost Season Length - 2030s RCP 4.5. . . . 99
F1.154 Frost Season Length - 2030s RCP 8.5. . . . 99
F1.155 Frost Season Length - 2050s RCP 4.5. . . . 100
F1.156 Frost Season Length - 2050s RCP 8.5. . . . 100

F1.157 Frost Season Length - 2080s RCP 4.5. . . . 101
F1.158 Frost Season Length - 2080s RCP 8.5. . . . 101
F1.159 Timing of Tulip Emergence. . . . 102
F1.160 Timing of Tulip Blooming. . . . 102
F1.161 Timing of First Fall Frost. . . . 103
F1.162 Timing of Last Spring Frost. . . . 103
F1.163 Timing of Warmest Month. . . . 104
F1.164 Timing of Coldest Month. . . . 105
F1.165 Annual Freeze-Thaw Cycles. . . . 106
F1.166 Annual Freeze-Thaw Cycles. . . . 106
F1.167 Annual Freeze-Thaw Cycles - Baseline. . . . 107
F1.168 Annual Freeze-Thaw Cycles - 2030s RCP 4.5. . . . 108
F1.169 Annual Freeze-Thaw Cycles - 2030s RCP 8.5. . . . 108
F1.170 Annual Freeze-Thaw Cycles - 2050s RCP 4.5. . . . 109
F1.171 Annual Freeze-Thaw Cycles - 2050s RCP 8.5. . . . 109
F1.172 Annual Freeze-Thaw Cycles - 2080s RCP 4.5. . . . 110
F1.173 Annual Freeze-Thaw Cycles - 2080s RCP 8.5. . . . 110
F1.174 Seasonal Freeze-Thaw Cycles - Fall. . . . 111
F1.175 Seasonal Freeze-Thaw Cycles - Fall. . . . 111
F1.176 Seasonal Freeze-Thaw Cycles - Winter. . . . 112
F1.177 Seasonal Freeze-Thaw Cycles - Winter. . . . 112
F1.178 Seasonal Freeze-Thaw Cycles - Spring. . . . 113
F1.179 Seasonal Freeze-Thaw Cycles - Spring. . . . 113
F1.180 Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days). . . . 114
F1.181 Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days). . . . 114
F1.182 Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - Baseline. . . . 115
F1.183 Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2030s RCP 4.5. . . . 116
F1.184 Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2030s RCP 8.5. . . . 116
F1.185 Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2050s RCP 4.5. . . . 117
F1.186 Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2050s RCP 8.5. . . . 117
F1.187 Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2080s RCP 4.5. . . . 118
F1.188 Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2080s RCP 8.5. . . . 118
F1.189 Frequency of Cold Spells (Max. Temperature <= -10°C for 5 Days). . . . 119
F1.190 Frequency of Cold Spells (Max. Temperature <= -10°C for 5 Days). . . . 119
F1.191 Heating Degree Days (18°C). . . . 120
F1.192 Heating Degree Days (18°C). . . . 120
F1.193 Heating Degree Days (18°C). . . . 121
F1.194 Heating Degree Days (18°C). . . . 122
F1.195 Heating Degree Days (18°C). . . . 122
F1.196 Heating Degree Days (18°C). . . . 123
F1.197 Heating Degree Days (18°C). . . . 123
F1.198 Heating Degree Days (18°C). . . . 124
F1.199 Heating Degree Days (18°C). . . . 124
F1.200 Cooling Degree Days (18°C). . . . 125
F1.201 Cooling Degree Days (18°C). . . . 125
F1.202 Cooling Degree Days (18°C) - Baseline. . . . 126
F1.203 Cooling Degree Days (18°C) - 2030s RCP 4.5. . . . 127
F1.204 Cooling Degree Days (18°C) - 2030s RCP 8.5. . . . 127
F1.205 Cooling Degree Days (18°C) - 2050s RCP 4.5. . . . 128

F1.206 Cooling Degree Days (18ºC) - 2050s RCP 8.5. . . . 128
F1.207 Cooling Degree Days (18ºC) - 2080s RCP 4.5. . . . 129
F1.208 Cooling Degree Days (18ºC) - 2080s RCP 8.5. . . . 129
F2.1 Annual Total Precipitation. . . . 131
F2.2 Annual Total Precipitation. . . . 131
F2.3 Annual Total Precipitation - Baseline. . . . 132
F2.4 Annual Total Precipitation - 2030s RCP 4.5. . . . 133
F2.5 Annual Total Precipitation - 2030s RCP 8.5. . . . 133
F2.6 Annual Total Precipitation - 2050s RCP 4.5. . . . 134
F2.7 Annual Total Precipitation - 2050s RCP 8.5. . . . 134
F2.8 Annual Total Precipitation - 2080s RCP 4.5. . . . 135
F2.9 Annual Total Precipitation - 2080s RCP 8.5. . . . 135
F2.10 Monthly Total Precipitation - January. . . . 136
F2.11 Monthly Total Precipitation - January. . . . 136
F2.12 Monthly Total Precipitation - February. . . . 137
F2.13 Monthly Total Precipitation - February. . . . 137
F2.14 Monthly Total Precipitation - March. . . . 138
F2.15 Monthly Total Precipitation - March. . . . 138
F2.16 Monthly Total Precipitation - April. . . . 139
F2.17 Monthly Total Precipitation - April. . . . 139
F2.18 Monthly Total Precipitation - May. . . . 140
F2.19 Monthly Total Precipitation - May. . . . 140
F2.20 Monthly Total Precipitation - June. . . . 141
F2.21 Monthly Total Precipitation - June. . . . 141
F2.22 Monthly Total Precipitation - July. . . . 142
F2.23 Monthly Total Precipitation - July. . . . 142
F2.24 Monthly Total Precipitation - August. . . . 143
F2.25 Monthly Total Precipitation - August. . . . 143
F2.26 Monthly Total Precipitation - September. . . . 144
F2.27 Monthly Total Precipitation - September. . . . 144
F2.28 Monthly Total Precipitation - October. . . . 145
F2.29 Monthly Total Precipitation - October. . . . 145
F2.30 Monthly Total Precipitation - November. . . . 146
F2.31 Monthly Total Precipitation - November. . . . 146
F2.32 Monthly Total Precipitation - December. . . . 147
F2.33 Monthly Total Precipitation - December. . . . 147
F2.34 Monthly Total Precipitation. . . . 148
F2.35 Monthly Total Precipitation. Dashed lines indicate the 10% and 90% percentile. . . . 149
F2.36 1 in 2 Years 1-Day Precipitation. . . . 150
F2.37 1 in 5 Years 1-Day Precipitation. . . . 150
F2.38 1 in 20 Years 1-Day Precipitation. . . . 151
F2.39 1 in 50 Years 1-Day Precipitation. . . . 151
F2.40 1 in 100 Years 1-Day Precipitation. . . . 152
F2.41 1 in 350 Years 1-Day Precipitation. . . . 152
F2.42 1 in 2 Years 1-Hour Precipitation. . . . 153
F2.43 1 in 5 Years 1-Hour Precipitation. . . . 153
F2.44 1 in 10 Years 1-Hour Precipitation. . . . 154
F2.45 1 in 20 Years 1-Hour Precipitation. . . . 154
F2.46 1 in 50 Years 1-Hour Precipitation. . . . 155
F2.47 1 in 100 Years 1-Hour Precipitation. . . . 155
F2.48 1 in 2 Years 6-Hour Precipitation. . . . 156
F2.49 1 in 5 Years 6-Hour Precipitation. . . . 156
F2.50 1 in 10 Years 6-Hour Precipitation. . . . 157
F2.51 1 in 20 Years 6-Hour Precipitation. . . . 157
F2.52 1 in 50 Years 6-Hour Precipitation. . . . 158
F2.53 1 in 100 Years 6-Hour Precipitation. . . . 158

F2.54 1 in 2 Years 12-Hour Precipitation. . . . 159
F2.55 1 in 5 Years 12-Hour Precipitation. . . . 159
F2.56 1 in 10 Years 12-Hour Precipitation. . . . 160
F2.57 1 in 20 Years 12-Hour Precipitation. . . . 160
F2.58 1 in 50 Years 12-Hour Precipitation. . . . 161
F2.59 1 in 100 Years 12-Hour Precipitation. . . . 161
F2.60 Annual Max. 1-Day Precipitation. . . . 162
F2.61 Annual Max. 1-Day Precipitation. . . . 162
F2.62 Annual Max. 1-Day Precipitation - Baseline. . . . 163
F2.63 Annual Max. 1-Day Precipitation - 2030s RCP 4.5. . . . 164
F2.64 Annual Max. 1-Day Precipitation - 2030s RCP 8.5. . . . 164
F2.65 Annual Max. 1-Day Precipitation - 2050s RCP 4.5. . . . 165
F2.66 Annual Max. 1-Day Precipitation - 2050s RCP 8.5. . . . 165
F2.67 Annual Max. 1-Day Precipitation - 2080s RCP 4.5. . . . 166
F2.68 Annual Max. 1-Day Precipitation - 2080s RCP 8.5. . . . 166
F2.69 Annual Max. 2-Day Precipitation. . . . 167
F2.70 Annual Max. 2-Day Precipitation. . . . 167
F2.71 Annual Max. 5-Day Precipitation. . . . 168
F2.72 Annual Max. 5-Day Precipitation. . . . 168
F2.73 Monthly Max. 1-Day Precipitation - January. . . . 169
F2.74 Monthly Max. 1-Day Precipitation - January. . . . 169
F2.75 Monthly Max. 1-Day Precipitation - February. . . . 170
F2.76 Monthly Max. 1-Day Precipitation - February. . . . 170
F2.77 Monthly Max. 1-Day Precipitation - March. . . . 171
F2.78 Monthly Max. 1-Day Precipitation - March. . . . 171
F2.79 Monthly Max. 1-Day Precipitation - April. . . . 172
F2.80 Monthly Max. 1-Day Precipitation - April. . . . 172
F2.81 Monthly Max. 1-Day Precipitation - May. . . . 173
F2.82 Monthly Max. 1-Day Precipitation - May. . . . 173
F2.83 Monthly Max. 1-Day Precipitation - June. . . . 174
F2.84 Monthly Max. 1-Day Precipitation - June. . . . 174
F2.85 Monthly Max. 1-Day Precipitation - July. . . . 175
F2.86 Monthly Max. 1-Day Precipitation - July. . . . 175
F2.87 Monthly Max. 1-Day Precipitation - August. . . . 176
F2.88 Monthly Max. 1-Day Precipitation - August. . . . 176
F2.89 Monthly Max. 1-Day Precipitation - September. . . . 177
F2.90 Monthly Max. 1-Day Precipitation - September. . . . 177
F2.91 Monthly Max. 1-Day Precipitation - October. . . . 178
F2.92 Monthly Max. 1-Day Precipitation - October. . . . 178
F2.93 Monthly Max. 1-Day Precipitation - November. . . . 179
F2.94 Monthly Max. 1-Day Precipitation - November. . . . 179
F2.95 Monthly Max. 1-Day Precipitation - December. . . . 180
F2.96 Monthly Max. 1-Day Precipitation - December. . . . 180
F2.97 Monthly Max. 1-Day Precipitation. . . . 181
F2.98 Monthly Max. 1-Day Precipitation. Dashed lines indicate the 10% and 90% percentile. . . . 182
F2.99 Number of Days Precipitation > 20 mm. . . . 183
F2.100 Number of Days Precipitation > 20 mm. . . . 183
F2.101 Number of Days Precipitation > 20 mm - Baseline. . . . 184
F2.102 Number of Days Precipitation > 20 mm - 2030s RCP 4.5. . . . 185
F2.103 Number of Days Precipitation > 20 mm - 2030s RCP 8.5. . . . 185
F2.104 Number of Days Precipitation > 20 mm - 2050s RCP 4.5. . . . 186
F2.105 Number of Days Precipitation > 20 mm - 2050s RCP 8.5. . . . 186
F2.106 Number of Days Precipitation > 20 mm - 2080s RCP 4.5. . . . 187
F2.107 Number of Days Precipitation > 20 mm - 2080s RCP 8.5. . . . 187
F2.108 Monthly Number of Days Precipitation > 10mm. . . . 188
F2.109 Monthly Number of Days Precipitation > 10mm. Dashed lines indicate the 10% and 90% percentile. 189

F2.110 Number of 2-Day Precipitation > 50 mm. . . . 190
F2.111 Number of 2-Day Precipitation > 50 mm. . . . 190
F2.112 Max. Length of Dry Spell. . . . 191
F2.113 Max. Length of Dry Spell. . . . 191
F2.114 Max. Length of Wet Spell. . . . 192
F2.115 Max. Length of Wet Spell. . . . 192
F2.116 Annual Total Snowfall. . . . 193
F2.117 Annual Total Snowfall. . . . 193
F2.118 Monthly Total Snowfall - October. . . . 194
F2.119 Monthly Total Snowfall - October. . . . 194
F2.120 Monthly Total Snowfall - November. . . . 195
F2.121 Monthly Total Snowfall - November. . . . 195
F2.122 Monthly Total Snowfall - December. . . . 196
F2.123 Monthly Total Snowfall - December. . . . 196
F2.124 Monthly Total Snowfall - January. . . . 197
F2.125 Monthly Total Snowfall - January. . . . 197
F2.126 Monthly Total Snowfall - February. . . . 198
F2.127 Monthly Total Snowfall - February. . . . 198
F2.128 Monthly Total Snowfall - March. . . . 199
F2.129 Monthly Total Snowfall - March. . . . 199
F2.130 Monthly Total Snowfall - April. . . . 200
F2.131 Monthly Total Snowfall - April. . . . 200
F2.132 Monthly Total Snowfall. . . . 201
F2.133 Monthly Total Snowfall. Dashed lines indicate the 10% and 90% percentile. . . . 202
F2.134 Annual Max. 1-Day Snowfall. . . . 203
F2.135 Annual Max. 1-Day Snowfall. . . . 203
F2.136 Number of Days with Snowfall. . . . 204
F2.137 Number of Days with Snowfall. . . . 204
F2.138 Number of Days with Snowfall >= 10 cm/day. . . . 205
F2.139 Number of Days with Snowfall >= 10 cm/day. . . . 205
F2.140 Annual Max. Snow Depth. . . . 206
F2.141 Annual Max. Snow Depth. . . . 206
F2.142 Number of Days with Snow Depth > 8 cm. . . . 207
F2.143 Number of Days with Snow Depth > 8 cm. . . . 207
F2.144 Number of Days with Snow Depth > 21 cm. . . . 208
F2.145 Number of Days with Snow Depth > 21 cm. . . . 208
F2.146 Annual Max. 3-Day Snow Melt Water Equivalent. . . . 209
F2.147 Annual Max. 3-Day Snow Melt Water Equivalent. . . . 209
F2.148 Annual Max. 7-Day Snow Melt Water Equivalent. . . . 210
F2.149 Annual Max. 7-Day Snow Melt Water Equivalent. . . . 210
F2.150 Number of Days with Snow Cover. . . . 211
F2.151 Number of Days with Snow Cover. . . . 211
F2.152 Duration From First to Last Day of Snow. . . . 212
F2.153 Duration From First to Last Day of Snow. . . . 212
F2.154 Timing of Month with Max. Snowfall. . . . 213
F2.155 Timing of Month with Max. Snow Depth. . . . 214
F2.156 Timing of First Snowfall. . . . 215
F2.157 Timing of Last Snowfall. . . . 215
F2.158 Timing of Max. 3-Day Melt. . . . 216
F2.159 Timing of Max. 7-Day Melt. . . . 216
F3.1 Monthly Average Wind Speed - January. . . . 218
F3.2 Monthly Average Wind Speed - January. . . . 218
F3.3 Monthly Average Wind Speed - February. . . . 219
F3.4 Monthly Average Wind Speed - February. . . . 219
F3.5 Monthly Average Wind Speed - March. . . . 220
F3.6 Monthly Average Wind Speed - March. . . . 220

F3.7 Monthly Average Wind Speed - April. . . . 221
F3.8 Monthly Average Wind Speed - April. . . . 221
F3.9 Monthly Average Wind Speed - May. . . . 222
F3.10 Monthly Average Wind Speed - May. . . . 222
F3.11 Monthly Average Wind Speed - June. . . . 223
F3.12 Monthly Average Wind Speed - June. . . . 223
F3.13 Monthly Average Wind Speed - July. . . . 224
F3.14 Monthly Average Wind Speed - July. . . . 224
F3.15 Monthly Average Wind Speed - August. . . . 225
F3.16 Monthly Average Wind Speed - August. . . . 225
F3.17 Monthly Average Wind Speed - September. . . . 226
F3.18 Monthly Average Wind Speed - September. . . . 226
F3.19 Monthly Average Wind Speed - October. . . . 227
F3.20 Monthly Average Wind Speed - October. . . . 227
F3.21 Monthly Average Wind Speed - November. . . . 228
F3.22 Monthly Average Wind Speed - November. . . . 228
F3.23 Monthly Average Wind Speed - December. . . . 229
F3.24 Monthly Average Wind Speed - December. . . . 229
F3.25 Monthly Average Wind Speed. . . . 230
F3.26 Monthly Average Wind Speed. Dashed lines indicate the 10% and 90% percentile. . . . 231
F3.27 1 in 2 Years 3-Hourly Wind Speed. . . . 232
F3.28 1 in 5 Years 3-Hourly Wind Speed. . . . 232
F3.29 1 in 10 Years 3-Hourly Wind Speed. . . . 233
F3.30 1 in 20 Years 3-Hourly Wind Speed. . . . 233
F3.31 1 in 50 Years 3-Hourly Wind Speed. . . . 234
F3.32 1 in 100 Years 3-Hourly Wind Speed. . . . 234
F3.33 Wind Distribution - Baseline. The direction indicates where the wind comes from. . . . 235
F3.34 Wind Distribution - Baseline. The direction indicates where the wind comes from. . . . 235
F3.35 Wind Distribution - 2030s RCP 4.5. The direction indicates where the wind comes from. . . . 236
F3.36 Wind Distribution - 2030s RCP 4.5. The direction indicates where the wind comes from. . . . 236
F3.37 Wind Distribution - 2030s RCP 8.5. The direction indicates where the wind comes from. . . . 237
F3.38 Wind Distribution - 2030s RCP 8.5. The direction indicates where the wind comes from. . . . 237
F3.39 Wind Distribution - 2050s RCP 4.5. The direction indicates where the wind comes from. . . . 238
F3.40 Wind Distribution - 2050s RCP 4.5. The direction indicates where the wind comes from. . . . 238
F3.41 Wind Distribution - 2050s RCP 8.5. The direction indicates where the wind comes from. . . . 239
F3.42 Wind Distribution - 2050s RCP 8.5. The direction indicates where the wind comes from. . . . 239
F3.43 Wind Distribution - 2080s RCP 4.5. The direction indicates where the wind comes from. . . . 240
F3.44 Wind Distribution - 2080s RCP 4.5. The direction indicates where the wind comes from. . . . 240
F3.45 Wind Distribution - 2080s RCP 8.5. The direction indicates where the wind comes from. . . . 241
F3.46 Wind Distribution - 2080s RCP 8.5. The direction indicates where the wind comes from. . . . 241
F4.1 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - January. . . . 243
F4.2 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - January. . . . 243
F4.3 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - February. . . . 244
F4.4 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - February. . . . 244
F4.5 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - March. . . . 245
F4.6 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - March. . . . 245
F4.7 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - April. . . . 246
F4.8 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - April. . . . 246
F4.9 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - May. . . . 247
F4.10 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - May. . . . 247
F4.11 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - June. . . . 248
F4.12 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - June. . . . 248
F4.13 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - July. . . . 249
F4.14 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - July. . . . 249
F4.15 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - August. . . . 250
F4.16 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - August. . . . 250

F4.17 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - September. 251
F4.18 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - September. 251
F4.19 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - October. 252
F4.20 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - October. 252
F4.21 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - November. 253
F4.22 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - November. 253
F4.23 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - December. 254
F4.24 Monthly Average Relative Humidity at the Time of Max. Daily Temperature - December. 254
F4.25 Monthly Average Relative Humidity at the Time of Max. Daily Temperature. 255
F4.26 Monthly Average Relative Humidity at the Time of Max. Daily Temperature. Dashed lines indicate the 10% and 90% percentile. 256
F5.1 Max. 3-Day Sum of Snow Melt and Precipitation. 258
F5.2 Max. 3-Day Sum of Snow Melt and Precipitation. 258
F5.3 Number of Days Wind Chill is between -35^{o}C and -25^{o}C. 259
F5.4 Number of Days Wind Chill is between -35^{o}C and -25^{o}C. 259
F5.5 Number of Days Wind > 10 km/hr and Snow > 1 cm. 260
F5.6 Number of Days Wind > 10 km/hr and Snow > 1 cm. 260
F5.7 Number of Days Wind > 10 km/hr and Snow > 5 cm. 261
F5.8 Number of Days Wind > 10 km/hr and Snow > 5 cm. 261
F5.9 Number of Days Wind > 20 km/hr and Snow > 1 cm. 262
F5.10 Number of Days Wind > 20 km/hr and Snow > 1 cm. 262
F5.11 Number of Days Humidex > 30. 263
F5.12 Number of Days Humidex > 30. 263
F5.13 Number of Days Humidex > 35. 264
F5.14 Number of Days Humidex > 35. 264
F5.15 Number of Days Humidex > 40. 265
F5.16 Number of Days Humidex > 40. 265
F5.17 Number of Periods Humidex > 30 for 2 Days. 266
F5.18 Number of Periods Humidex > 30 for 2 Days. 266
F5.19 Number of Periods Humidex > 35 for 2 Days. 267
F5.20 Number of Periods Humidex > 35 for 2 Days. 267
F5.21 Number of Periods Humidex > 40 for 2 Days. 268
F5.22 Number of Periods Humidex > 40 for 2 Days. 268

List of Tables

Appendix F - Plots of Climate Indices 11

F.1 Formulas of Temperature Indices. . . . 12
F.2 Formulas of Precipitation, Humidity, and Wind Indices. . . . 13
F.3 Formulas of Indices for Other Parameters. . . . 14

Appendix G - Table of Climate Indices 269

G.1 Median projections for temperature-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *). . . . 271
G.1 Median projections for temperature-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *). . . . 272
G.1 Median projections for temperature-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *). . . . 273
G.1 Median projections for temperature-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *). . . . 274
G.2 Median projections for precipitation-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *). . . . 276
G.2 Median projections for precipitation-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *). . . . 277
G.3 Median projections for wind-related indices (with 10th and 90th percentiles shown as ranges, or maxima-minima for the indices with *). . . . 279
G.4 Median projections for humidity-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *). . . . 281
G.5 Median projections for indices that combine different parameters (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *). . . . 283

Appendix F - Plots of Climate Indices

Table F.1: Formulas of Temperature Indices.

	Type of Index	Index Name	Formulas (Tx = daily max. temp., Tg = daily mean temp., SN = daily snowfall, Tn = daily min. temp., RR = daily precip., SD = daily snow depth)	Unit	In-Text	App. F Plots	App. G Tables
TEMPERATURE	Maxima and Minima	Warmest Temperature of the Year	Max. Tx over each year	°C	2.3.3	F1	G1
		Coldest Temperature of the Year	Min. Tn over each year	°C		F1	G1
		Warmest Monthly Temperature	Max. Tx over each month	°C		F1	G1
		Monthly Min. of Daily Max. Temperature	Min. Tx over each month	°C			G1
		Monthly Max. of Daily Min. Temperature	Max. Tn over each month	°C			G1
		Coldest Monthly Temperature	Min. Tn over each month	°C	2.3.2	F1	G1
	Thresholds and Ranges	Number of Hot Days (Daily Max. Temperature > 30°C)	Number of days with Tx > 30 °C	# days/year	2.3.3	F1	G1
		Number of Tropical Nights (Daily. Min Temperature > 20°C)	Number of days with Tn > 20 °C	# days/year		F1	G1
		Number of Deep Freeze Events (Daily Min. Temperature < -10°C)	Number of days with Tn <-10 °C	# days/year	2.3.2	F1	G1
		Number of Days Daily Max. Temperature < -34, -5, 0, or > 0, 5, 10, 15, 20, 25, 35°C	Number of days Tx < -34, -5, 0, and Tx > 0, 5, 10, 15, 20, 25, 35 °C	# days/season			G1
		Number of Days Daily Min. Temperature < -34, -28, -20, -15, -5, 0°C	Number of days Tn < -34, -28, -20, -15, -5, 0	# days/season			G1
		Number of Days Daily Max. Temperature is between -20– -10, -10–0, 0–5, 4–10, 10–15, 15–20, 20–25, 18–34, 26–29, 22–30°C	Number of days Tx btw (-20– -10, -10–0, 0–5, 4–10, 10–15, 15–20, 20-25, 18–34, 26–29, 22–30°C)	# days/season			G1
		Seasonal Temperature Range	Difference between max. Tx and min. Tn for each season	°C			G1
	Averages, Timing and Seasons	Annual Average Temperature	Avg. of the Tg over each year	°C	2.3.1	F1	G1
		Seasonal Average Temperature	Avg. of the Tg over each season	°C		F1	G1
		Monthly Average Temperature	Avg. of the Tg over each month	°C	2.3.1	F1	G1
		Growing Season Length	Count btw first span of 6 days with Tg > 5ºC & first span 6 days Tg <5°C (after July 1st)	# days/year		F1	G1
		Frost Season Length	Max. length where [30 day-moving avg. of Tg] < 0°C	# days/year		F1	G1
		Potato Growing Season Length	Number of days Tn > 7°C and Tx < 30°C	# days/year			G1
		Corn Heat Units	Cumulative sum of corn heat units[1] over the "Growing Season" (see above)	units			G1
		Timing of Tulip Emergence and Blooming	Date when number of 5°C growing degree days* exceeds 20, 120	day		F1	G1
		Timing of First Fall Frost	First day when Tn < 0 (after July 15)	day	2.3.4	F1	G1
		Timing of Last Spring Frost	Last day when Tn < 0 (assessed backwards from July 15)	day	2.3.4	F1	G1
		Timing of Warmest Month	Month of the year with the highest avg. temp.	month		F1	G1
		Timing of Coldest Month	Month of the year with the lowest avg. temp.	month		F1	G1
	Winter Melt and Freeze-thaw	Winter Melting Episode	Number of periods more than 3 consec. days Tg > 0°C (Dec, Jan, Feb)	# days/season			G1
		Annual Freeze-Thaw Cycles	Number of days Tx > 0ºC and Tn < 0ºC	# days/year		F1	G1
		Seasonal Freeze-Thaw Cycles	Number of days Tx > 0ºC and Tn < 0ºC	# days/season	2.3.5	F1	G1
	Warm and Cold Spells	Frequency of Warm Spells (Max. Temperature > 32°C for 3 Days)	Number of periods where more than 3 consec. days Tx > 32°C	# periods/year			G1
		Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days)	Number of periods where more than 2 consec. Tx > 31 and Tn > 20°C	# periods/year	2.3.3	F1	G1
		Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C)	Number of periods Tx > 31 and Tn > 20°C	# days/year			G1
		Frequency of Cold Spells (Max. Temperature ≤ -10°C for 5 Days)	Number of periods where more than 5 consec. days Tx ≤-10°C (Aug to July)	# periods/year		F1	G1
	Design	Heating Degree Days	Annual sum of the # of the degrees C that each day's Tg < 17, 18 °C	°C days		F1	G1
		Freezing Degree Days	Annual sum of the # of degrees C that each day's Tg < 0°C	°C days			G1
		Above Freezing Degree Days	Annual sum of the # of degrees C that each day's Tg > 0°C	°C days			G1
		Cooling Degree Days (18°C)	Annual sum of the # of degrees C that each day's Tg > 18°C	°C days		F1	G1
		Winter Melting Degree Days	Winter sum of the # of degrees C that each day's Tg is > 0°C	°C days			G1
		January 2.5% Design Temperature Approximation	Monthly min. Tg in January	°C			G1
		July 2.5% Design Temperature Approximation	Monthly max. Tg in July	°C			G1

Corn Heat Units = 1.8*(Tn-4.4) + 3.3*(Tx-10) - 0.084*(Tx-10)^2]/2 (cumulative over growing season)

Table F.2: Formulas of Precipitation, Humidity, and Wind Indices.

	Type of Index	Index Name	Formulas (Tx = daily max. temp., Tg = daily mean temp., SN = daily snowfall, Tn = daily min. temp., RR = daily precip., SD = daily snow depth)	Unit	In-Text	App. F Plots	App. G Tables
PRECIPITATION	Totals	Annual Total Precipitation	Sum RR over each year	mm	2.4.1	F2	G2
		Monthly Total Precipitation	Sum RR over each month	mm	2.4.1	F2	G2
	Return Periods	1 in 100 Year 1-Day Precipitation	Extreme value analysis (100-year return period)	mm	2.4.3	F2	G2
		1 in 2, 5, 20, 50, 350 Year 1-Day Precipitation	Extreme value analysis (2, 5, 20, 50, 350-year return periods)	mm		F2	G2
		1 in 100, 350 Year (2-Day, 5-Day) Precipitation	Extreme value analysis (100, 350 -year return periods)	mm		F2	G2
		1 in 50 Year Hourly Precipitation	Extreme value analysis (50-year return period)	mm	2.4.3	F2	G2
		1 in 2, 5, 10, 20, 50, 100 Year (1, 3, 6, 12 -Hourly) Precipitation	Extreme value analysis (2, 5, 10, 20, 50, 100- year return periods)	mm		F2	G2
	Maxima	Annual Max. 1-Day Precipitation	Max. over each year	mm	2.4.3	F2	G2
		Annual Max. (2-Day, 5-Day) Precipitation	Max. over each year	mm		F2	G2
		Monthly Max. 1-Day Precipitation	Max. over each month	mm	2.4.3	F2	G2
		Monthly Max. (2-Day, 5-Day) Precipitation	Max. over each month	mm			G2
	Thresholds	Number of Days Precipitation > 20 mm	Number of days RR > 20 mm	# days/year	2.4.3	F2	G2
		Monthly Number of Days Precip > 10 mm	Sum for each month of number of days RR > 10 mm	# Days	2.4.3		G2
		Number of Days Precipitation > 1, 10, 25, 50 mm	Number of days RR > 1, 10, 25, 50 mm	# days/year		F2	G2
		Number of 2-Day Precipitation > 50 mm	Number of periods 2-day RR > 50 mm	# periods/year		F2	G2
		Number of Hours Precipitation > 25, 50 mm	Number of hours where hourly precip > 25, 50mm	# hours/year			G2
	Wet and Dry Spells	Max. Length of Dry Spell	Max. number of consec. days RR < 1mm for each year	# days		F2	G2
		Max. Length of Wet Spell	Max. number of consec. days RR ≥ 1mm for each year	# days		F2	G2
	Timing	Timing of Wettest Month	Month of the year with the greatest total precip.	month			G2
		Timing of Dryest Month	Month of the year with the least total precip.	month			G2
PRECIPITATION (SNOW)	Totals and Maxima	Annual Total Snowfall	Annual total SN (Aug - Jul)	cm	2.4.4	F2	G2
		Monthly Total Snowfall	Monthly total SN (Aug - Jul)	cm	2.4.4	F2	G2
		Annual Max. 1-Day Snowfall	Annual max. SN (Aug - Jul)	cm/day	2.4.6	F2	G2
	Thresholds	Number of Days with Snowfall	Number of days SN ≥ 1 cm/day (Aug - Jun)	# days/year	2.4.5	F2	G2
		Number of Days with Snowfall ≥ 10 cm/day	Count days SN ≥ 10 cm/day	# days/year		F2	G2
	Snow Depth	Annual Max. Snow Depth	Annual max. SD (Aug - Jul)	cm	2.4.6	F2	G2
		Number of Days with Snow Depth > 8, 21 cm	Count days SD ≥ 8, 21 cm	# days/year		F2	G2
		Annual Max. 3-Day and 7-Day Snow Melt Water Equivalent	Annual max. of the "melt" (decrease in SD) over 3 and 7 days	mm		F2	G2
	Duration	Number of Days with Snow Cover	Number of days SD ≥ 2 cm (Aug - July)	# days/year	2.4.5	F2	G2
		Duration From First to Last Day of Snow	Number of days between first and last day that SN ≥ 1 cm/day	# days		F2	G2
	Timing	Timing of Month with Max. Snowfall	Month of the year with max. total SN	month		F2	G2
		Timing of Month with Max. Snow Depth	Month of the year with max. SD	month		F2	G2
		Timing of First Snowfall	First day when SN ≥ 1 cm (after July 15)	day	2.4.5	F2	G2
		Timing of Last Snowfall	Last day when SN ≥ 1 cm (before July 15)	day	2.4.5	F2	G2
		Timing of Max. 3-Day Snow Melt Water Equivalent	Timing of max. "melt" (decrease in SD) over 3 and 7 days	day		F2	G2
HUM. /WIND	Monthly	Monthly Average Wind Speed	Wind speed ave/ over each month (based on hourly or 3-hourly data)	m/s	2.5.1	F3	G3
	Extremes	1 in 2, 5, 10, 20, 50, 100 Year 3-Hourly Wind Speed	Extreme value analysis (1, 5, 10, 50, 100-year return periods)	m/s		F3	G3
		Number of Hours Wind Speed > 10, 20, 40 km/hr	Number of hours > 10, 40 km/hr	# hours/year			G3
	Averages	Monthly Average Relative Humidity at the Time of Max. Daily Temperature	Avg. of the daily relative humidity (at the time of maximum temp.)	%	2.6.1	F4	G4

Table F.3: Formulas of Indices for Other Parameters.

	Type of Index	Index Name	Formulas (Tx = daily max. temp., Tg = daily mean temp., SN = daily snowfall, Tn = daily min. temp., RR = daily precip., SD = daily snow depth)	Unit	In-Text	App. F Plots	App. G Tables
COMBINED	Winter Precipitation & Melt	Snowfall Approximation (Based on Precipitation and Temperature)	Total precip. when Tg < -3ºC	mm			G5
		Winter Rain Approximation (Based on Precipitation From Dec.–Feb. and Temperature)	Total precip. when Tx > 0ºC (from Dec -Feb)	mm			G5
		Max. 3-Day Sum of Snow Melt and Precipitation	Max. sum of the "melt" (decrease in Sd) and RR in a 3-day period	mm		F5	G5
		Winter Rain > 10 mm and Freezing	Daily "Winter Rain Approximation" > 10 mm when Tn <0 (from Dec -Feb)	# days/year			G5
		Snow Melt Water Equivalent > 10 mm and Freezing	Melt (descrease in Sd) > 10 mm and Tn <0	# days/year			G5
	Comb. with Winds	Winds > 20 km/hr and Winter Precipitation > 1 mm	Number of days wind > 20 km/hr (Dec-Feb) and total precip. > 1 mm	# days/year			G5
		Number of Days Wind Chill is between -35°C and -25°C	Number of days wind chill[2] > -35°C & < -25°C	# days/year	2.5.1	F5	G5
		Number of Days Wind > 10, 20 km/hr and Snowfall > 1, 5 cm	Number of days daily mean wind > 10, 20 km/hr and Sp > 1,5 cm	# days/year		F5	G5
	Summer Conditions & Drought	Number of Days Humidex > 30, 35, 40°C	Number of days where humidex[3] > 30, 35, 40°C	# days/year		F5	G5
		Number of Periods Humidex > 40°C for 2 Days	Number of periods where more than 2 consec. days humidex [3] > 40°C	# periods/year	2.6.2	F5	G5
		Number of Periods Humidex > 30, 35°C for 2 Days	Number of periods where more than 2 consec. days humidex [3] > 30, 35°C	# periods/year		F5	G5
		Number of Days Chandler Burning Index (Fire Index) > 75, 90	Number of days Chandler Burning Index[4] > 75,90	# days/year			G5
		Water Scarcity Approximation (Based on Precipitation and Temperature)	Number of periods when RR < 1mm and Tg > 20°C	# days/year			G5
EXTREME & OTHER	Extreme Events	Freezing Rain & Ice Storms	Literature	NA	2.8.1		
		Extreme Snow & Blizzards	Literature	NA	2.8.2		
		Extreme Winds & Gusts	Literature	NA	2.8.3		
		Tornadoes	Literature	NA	2.8.4		
		Hurricanes	Literature	NA	2.8.5		
		Lightning	Literature	NA	2.8.6		
	Other	Evapotranspiration, Drought, & Wildfire	Literature	NA	2.8.7		
		Air Quality	Literature	NA	2.8.8		
		Acid Rain	Literature	NA	2.8.9		
		Shorwave Radiation (UV)	Literature	NA	2.8.10		

Wind chill = 35.74 +0.6215Tg - 35.75*(V^0.16) + 0.4275Tg*(V^0.16) where V = daily mean windspeed (km/hr)
Humidex = Tx + (0.555)*(e-10), where e=6.11 exp [5417.7530*((1/273.16)-1/Tdp))] where Tdp= dew point temp. in K (Tdp = T - ((100 - RH)/5))
Chandler Burning Index = (((110-1.373*RH)-0.54*(10.20-Tx))*(124*10^(-0.0142*RH)))/60
Growing Degree Days (Base 5) = ((Tx+Tn)/2)-T_5

F1 Temperature

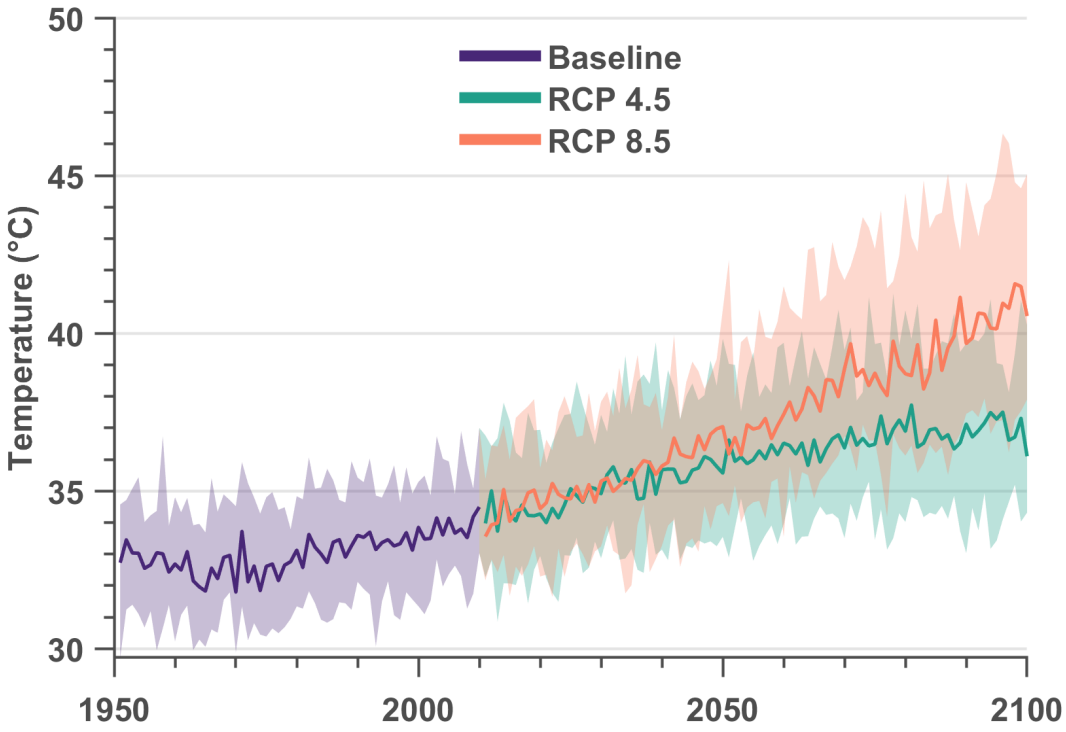


Figure F1.1: Warmest Temperature of the Year.

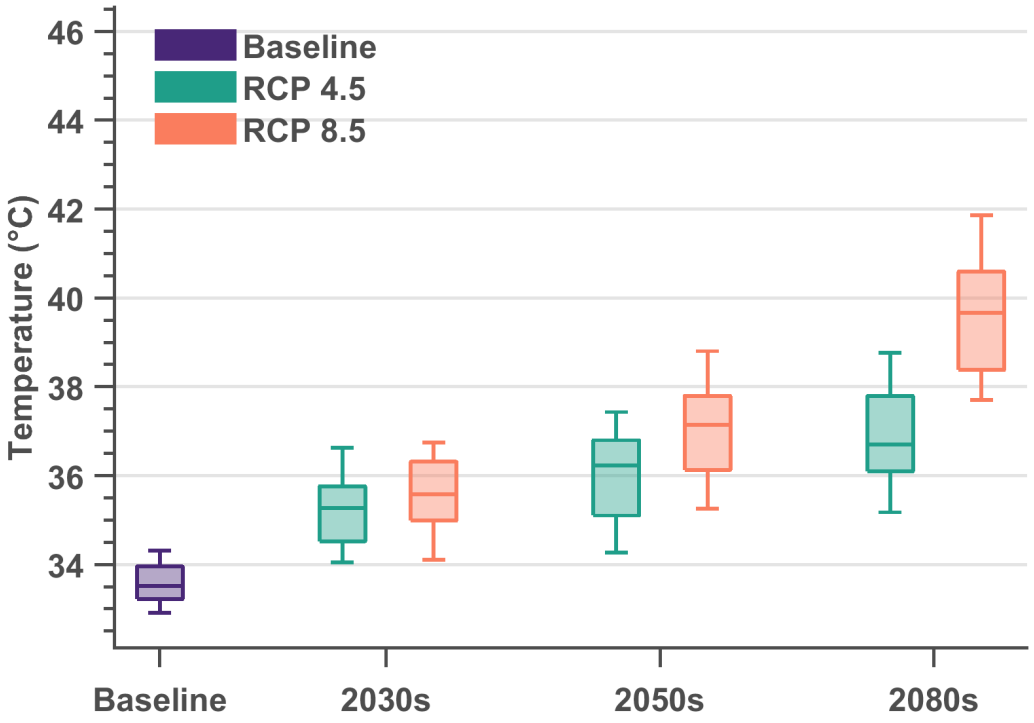


Figure F1.2: Warmest Temperature of the Year.

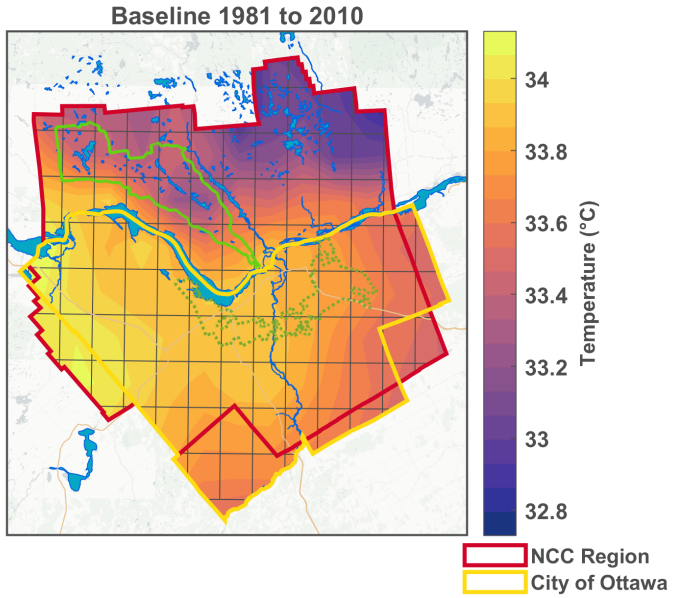


Figure F1.3: Warmest Temperature of the Year - Baseline.

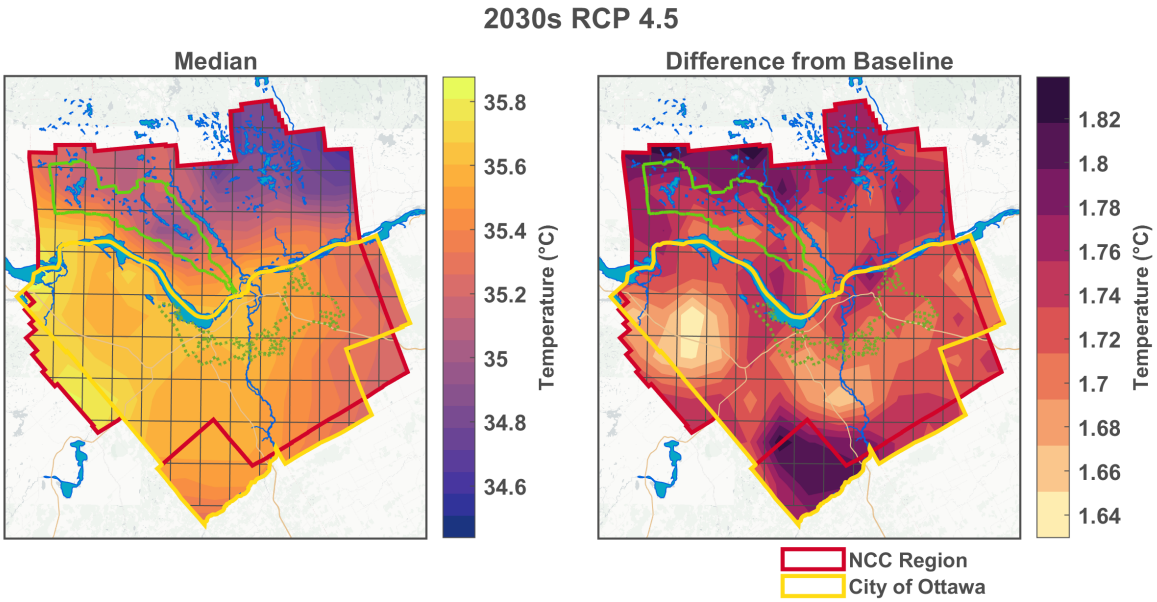


Figure F1.4: Warmest Temperature of the Year - 2030s RCP 4.5.

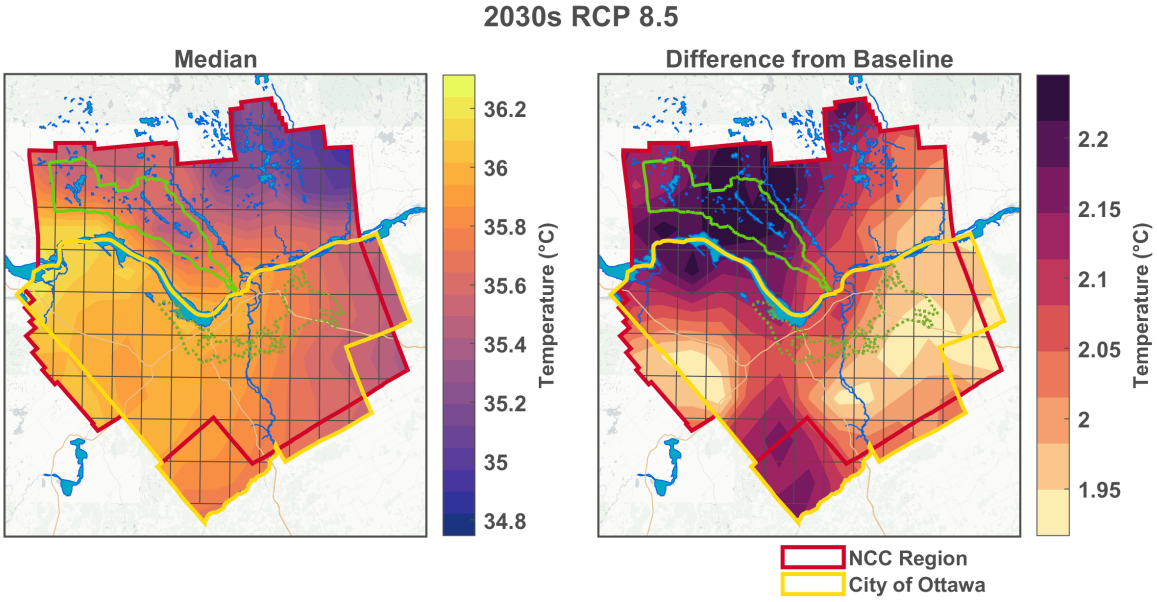


Figure F1.5: Warmest Temperature of the Year - 2030s RCP 8.5.

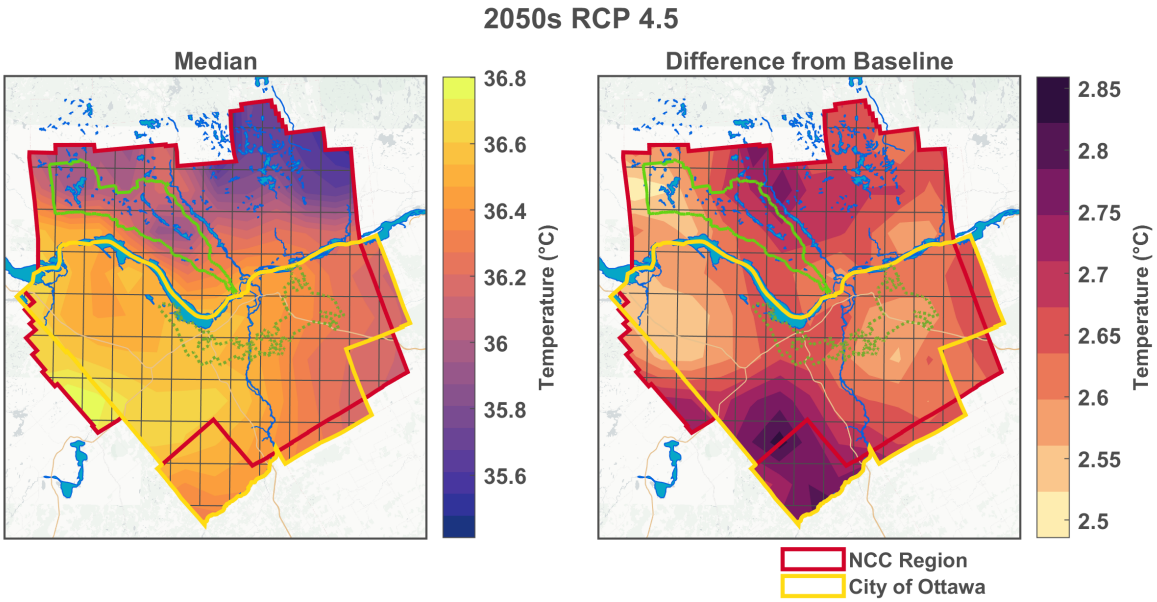


Figure F1.6: Warmest Temperature of the Year - 2050s RCP 4.5.

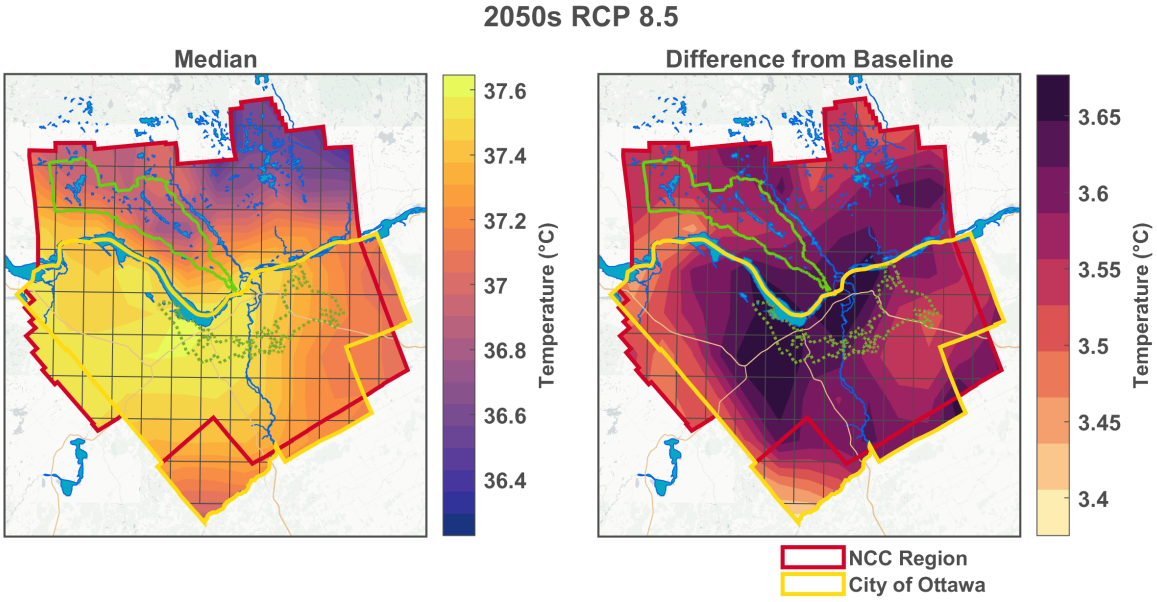


Figure F1.7: Warmest Temperature of the Year - 2050s RCP 8.5.

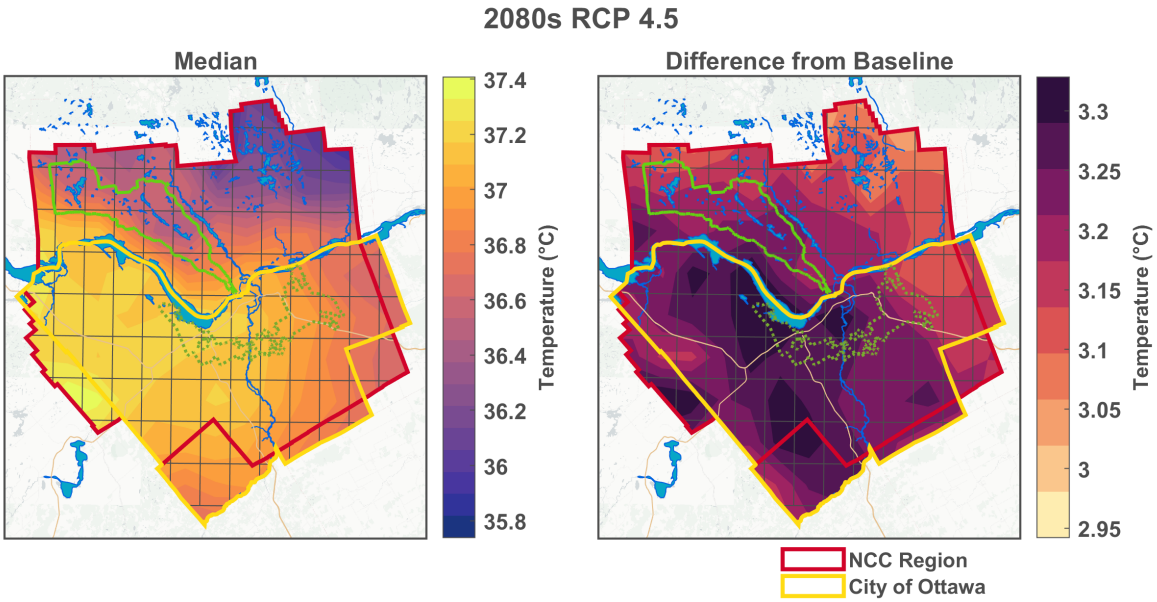


Figure F1.8: Warmest Temperature of the Year - 2080s RCP 4.5.

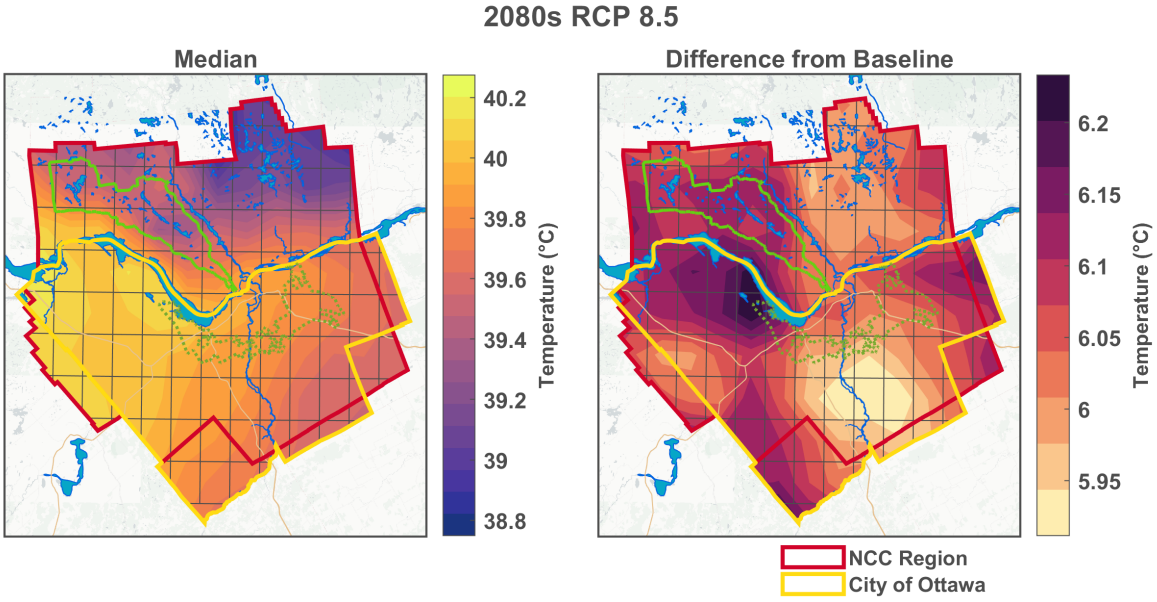


Figure F1.9: Warmest Temperature of the Year - 2080s RCP 8.5.

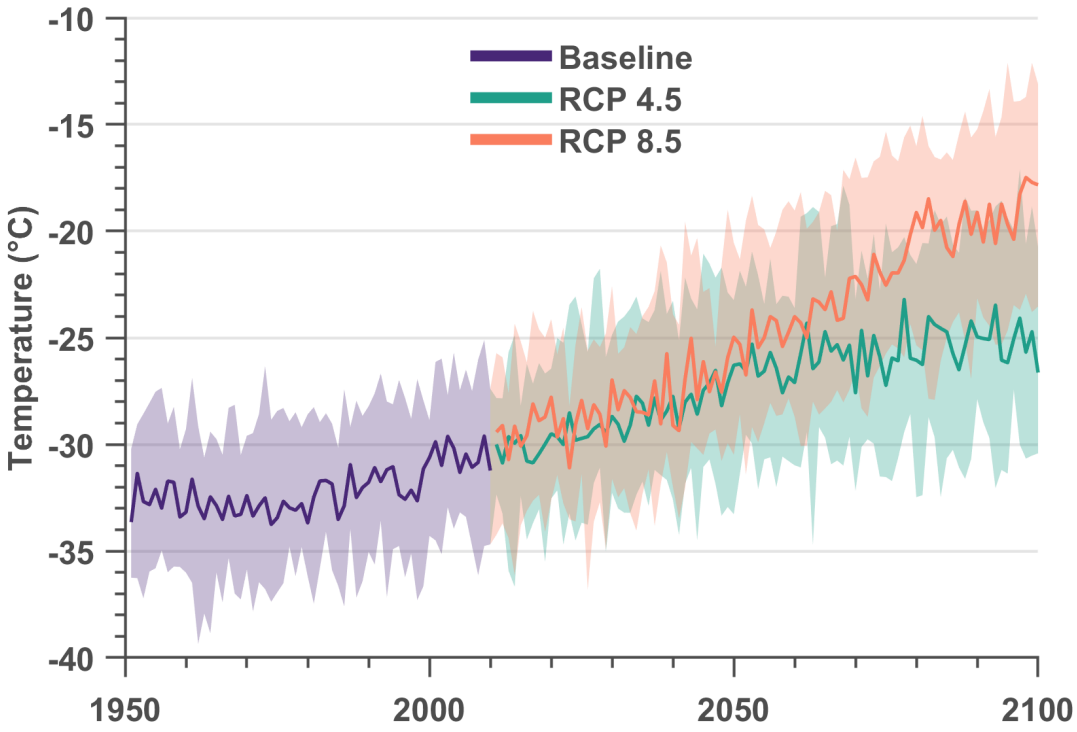


Figure F1.10: Coldest Temperature of the Year.

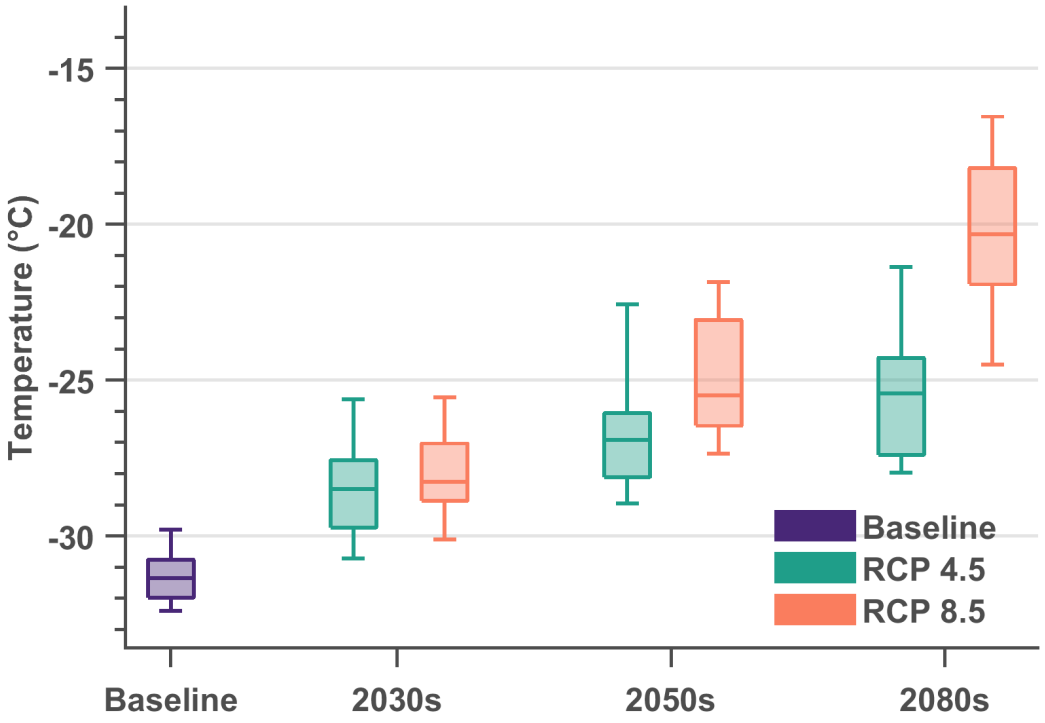


Figure F1.11: Coldest Temperature of the Year.

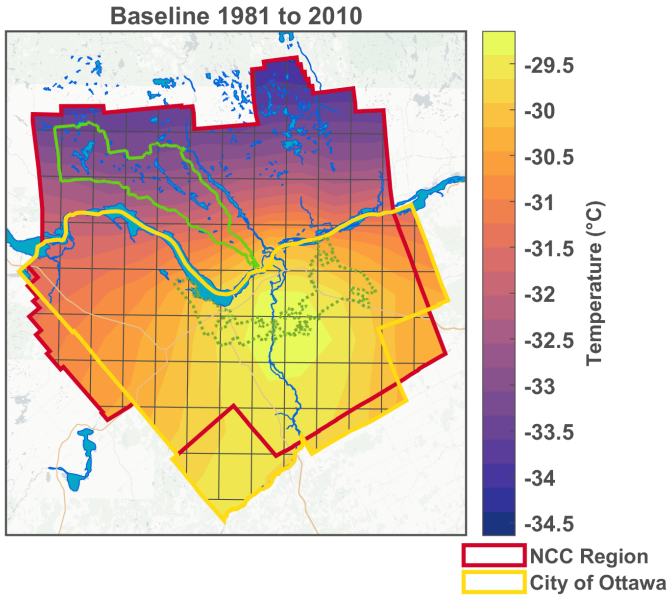


Figure F1.12: Coldest Temperature of the Year - Baseline.

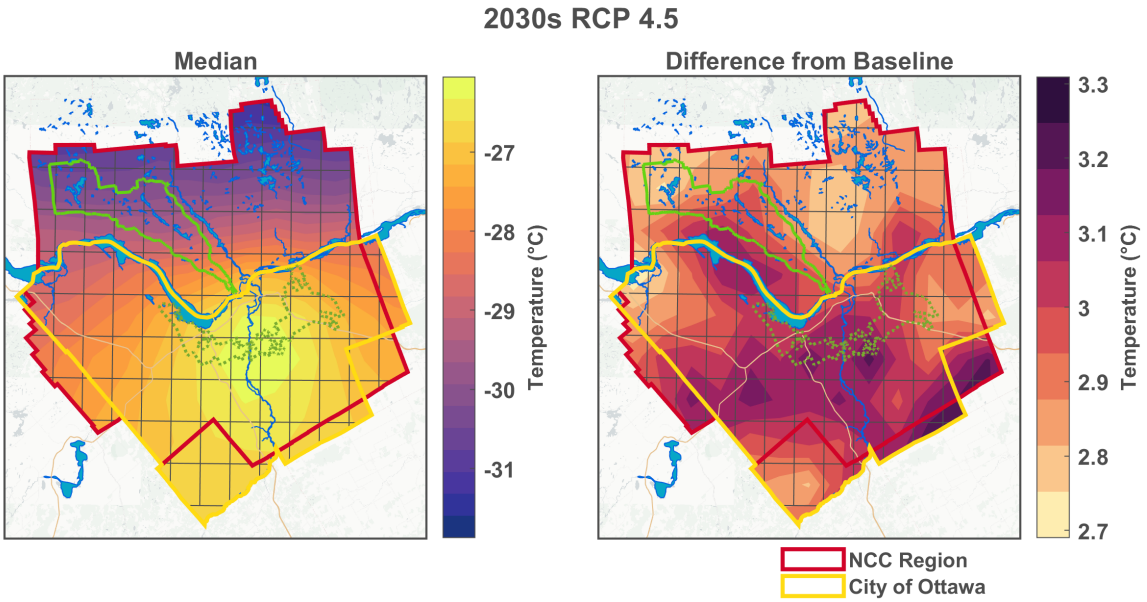


Figure F1.13: Coldest Temperature of the Year - 2030s RCP 4.5.

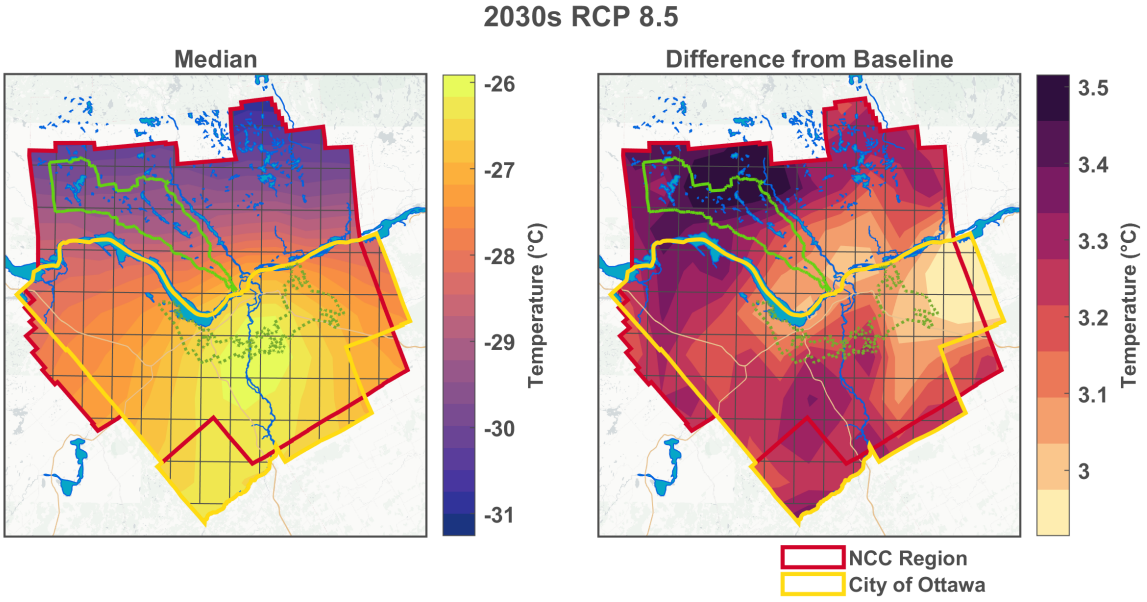


Figure F1.14: Coldest Temperature of the Year - 2030s RCP 8.5.

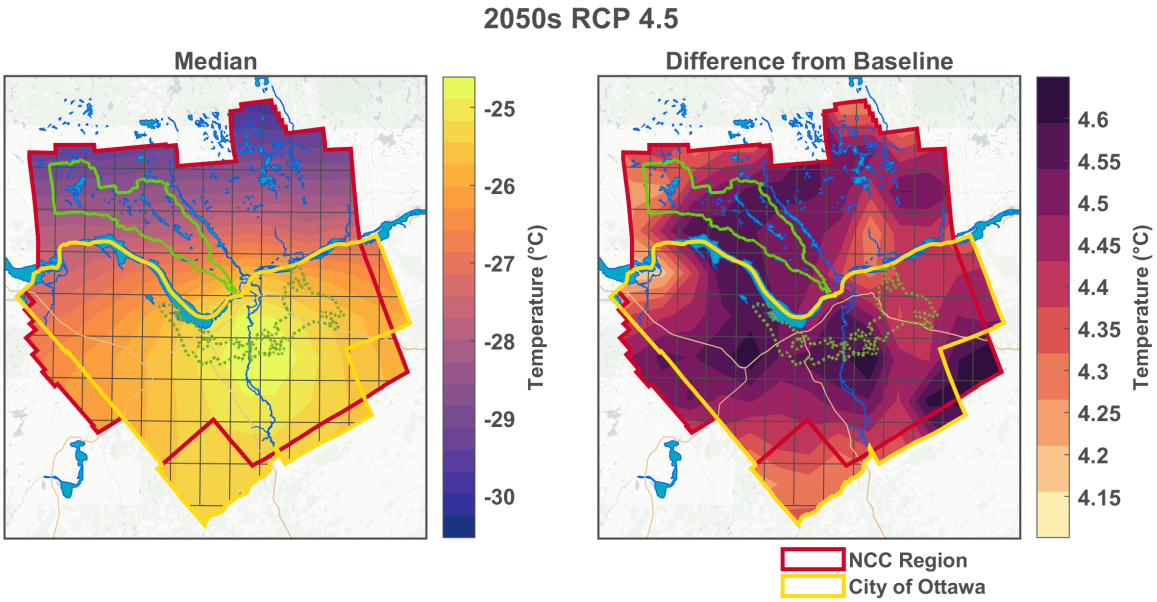


Figure F1.15: Coldest Temperature of the Year - 2050s RCP 4.5.

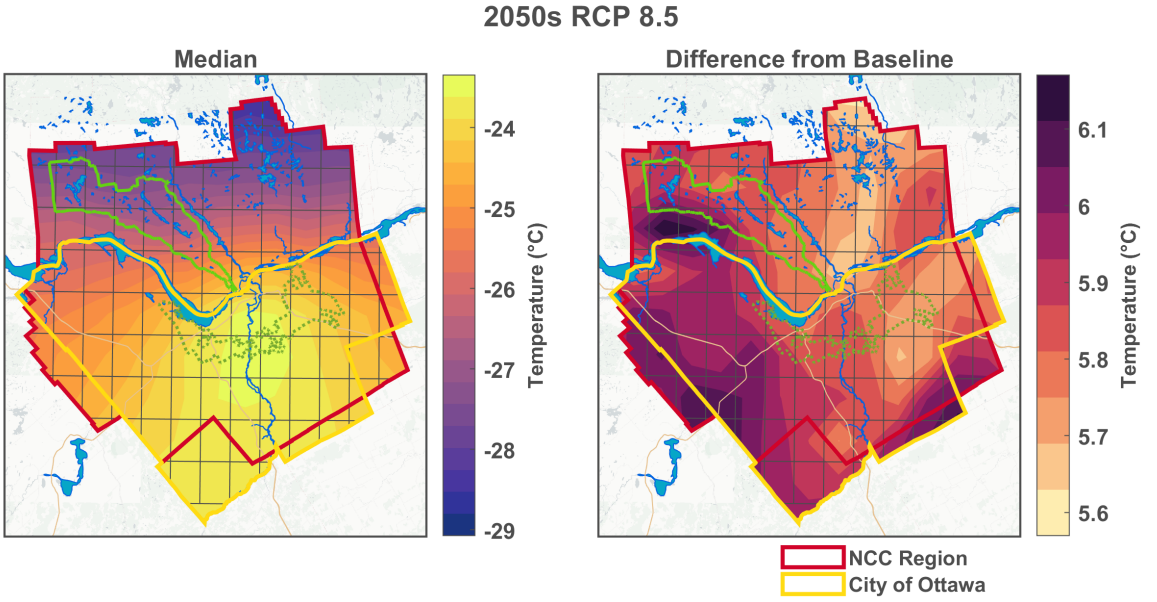


Figure F1.16: Coldest Temperature of the Year - 2050s RCP 8.5.

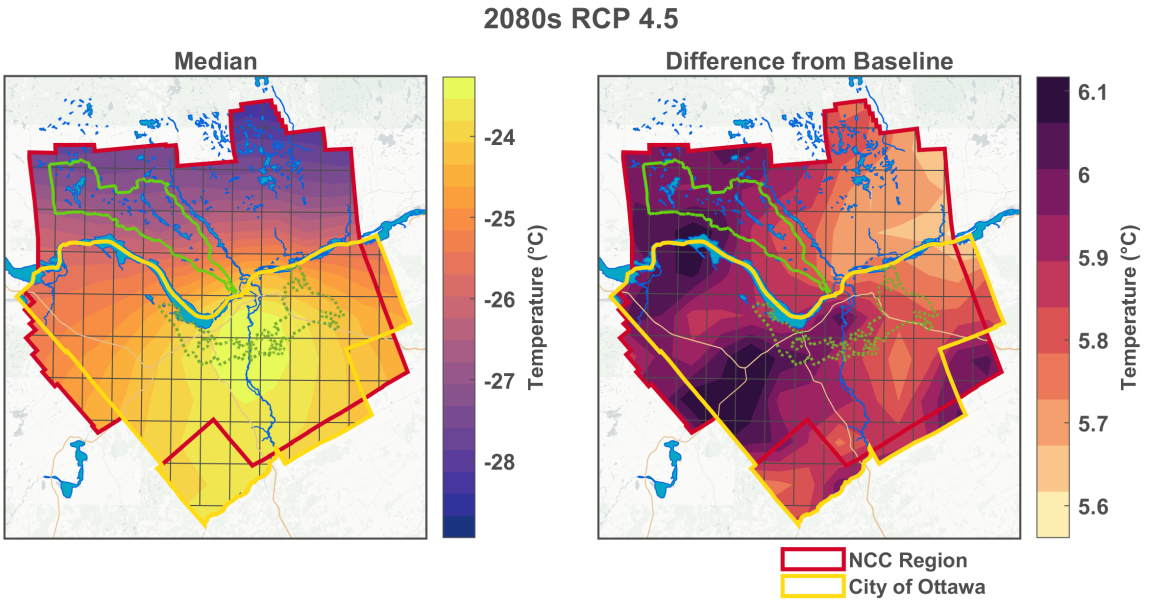


Figure F1.17: Coldest Temperature of the Year - 2080s RCP 4.5.

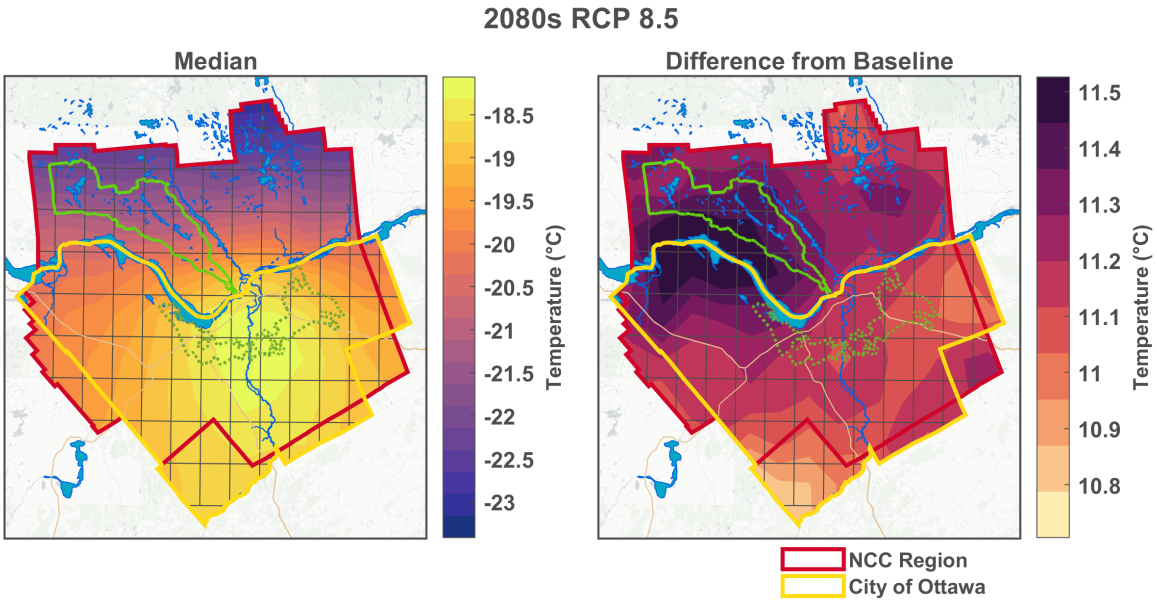


Figure F1.18: Coldest Temperature of the Year - 2080s RCP 8.5.

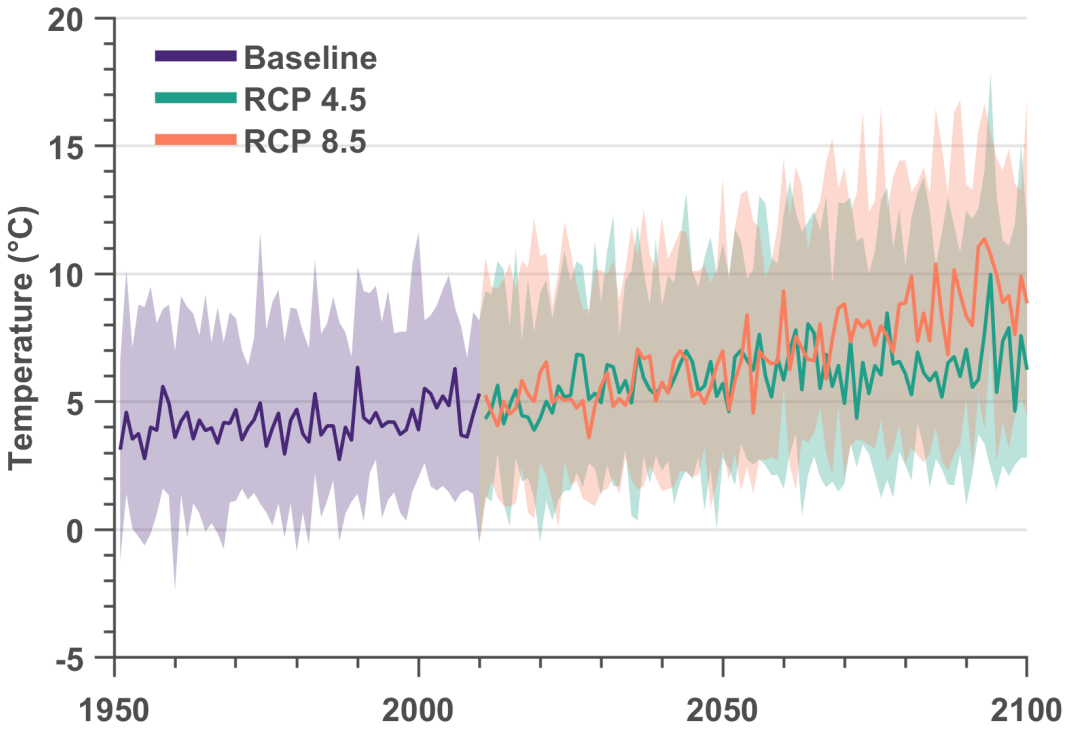


Figure F1.19: Warmest Monthly Temperature - January.

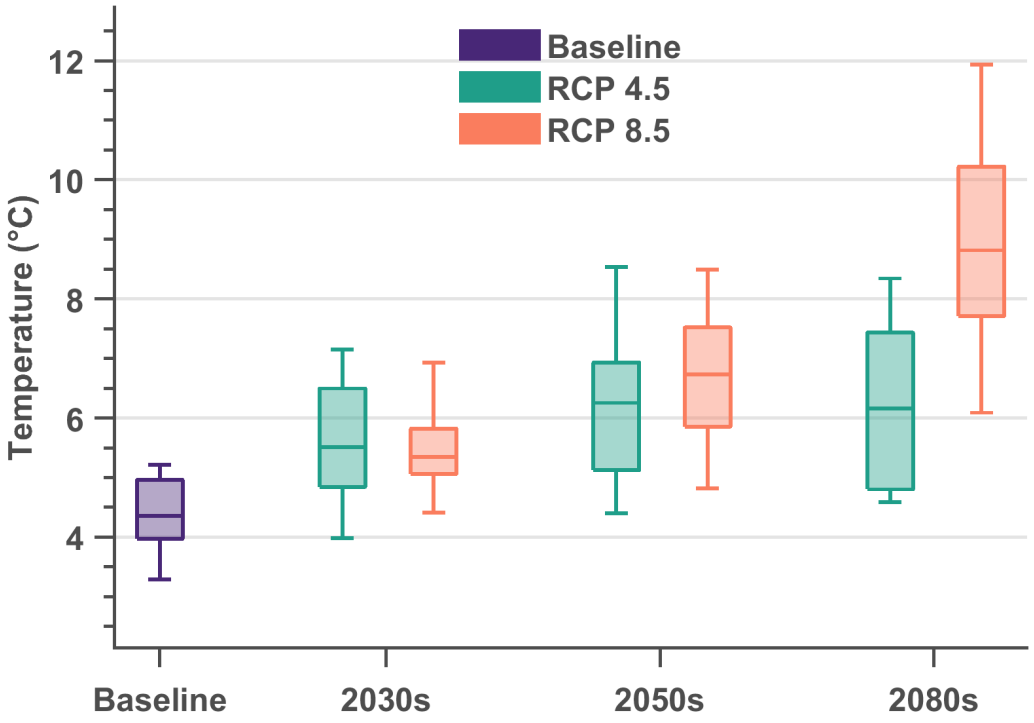


Figure F1.20: Warmest Monthly Temperature - January.

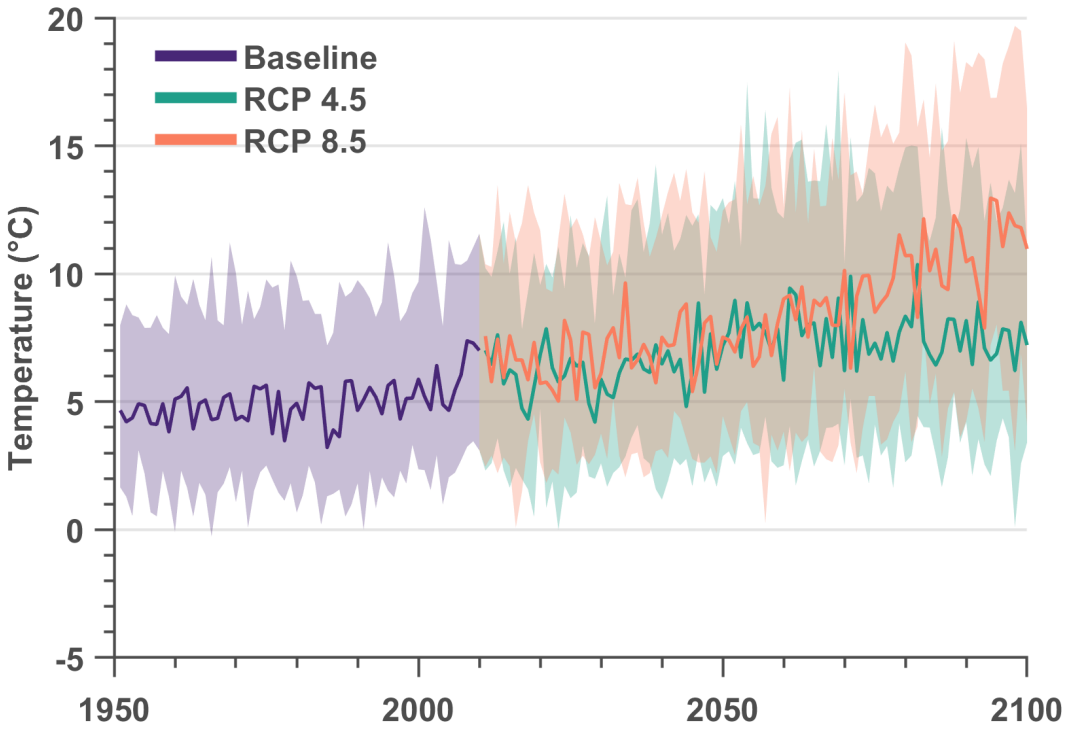


Figure F1.21: Warmest Monthly Temperature - February.

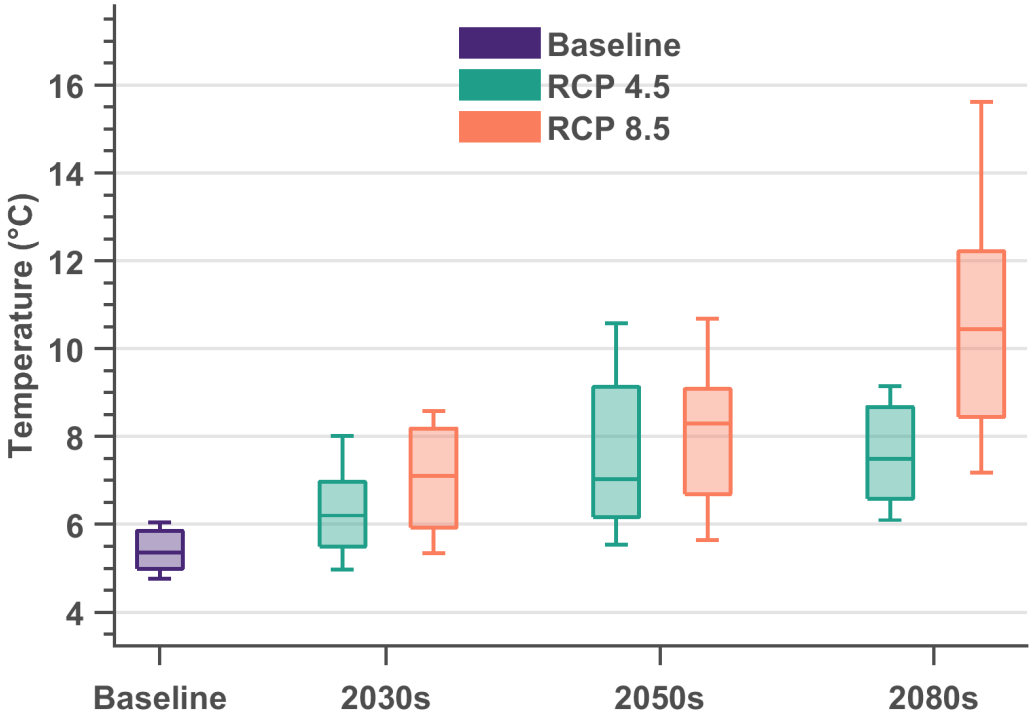


Figure F1.22: Warmest Monthly Temperature - February.

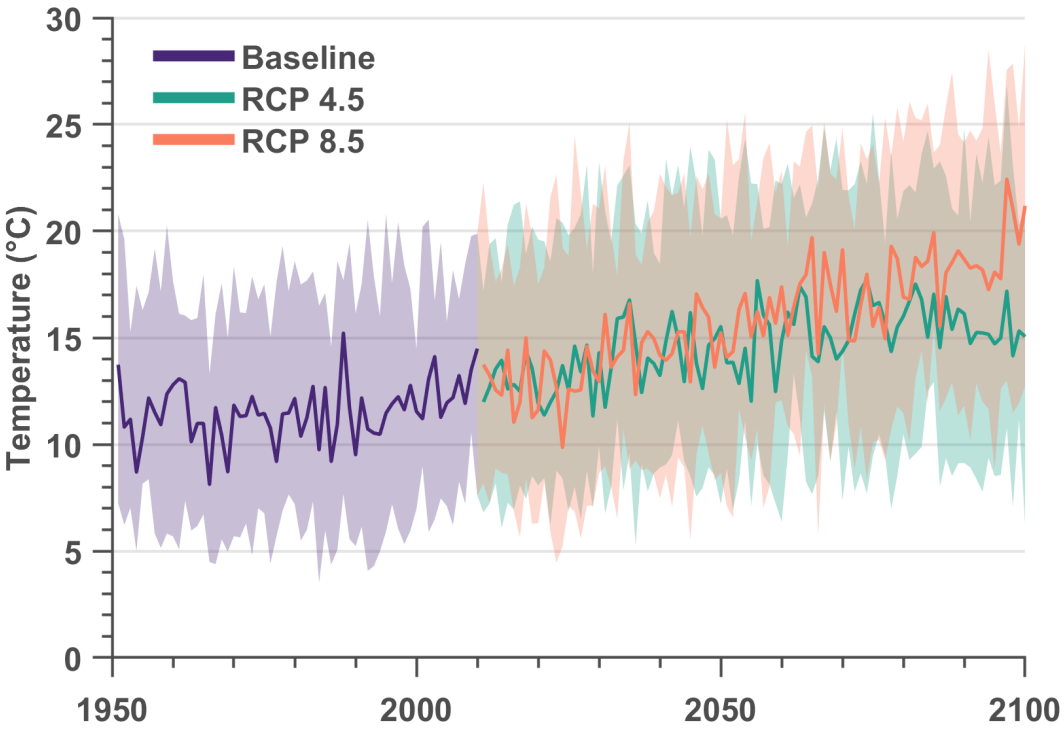


Figure F1.23: Warmest Monthly Temperature - March.

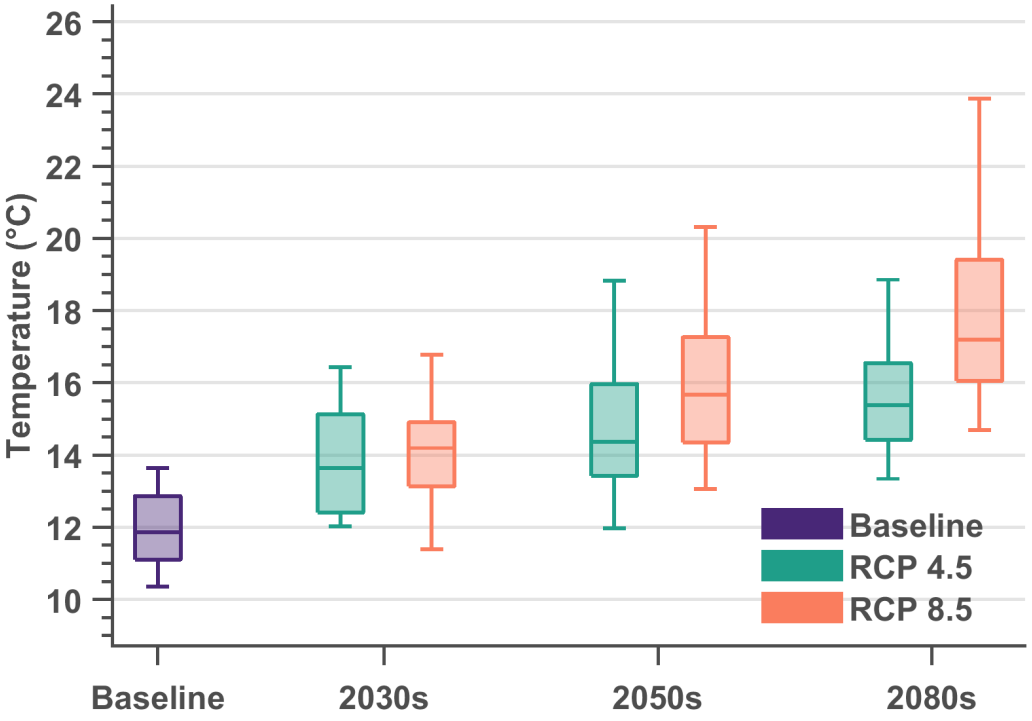


Figure F1.24: Warmest Monthly Temperature - March.

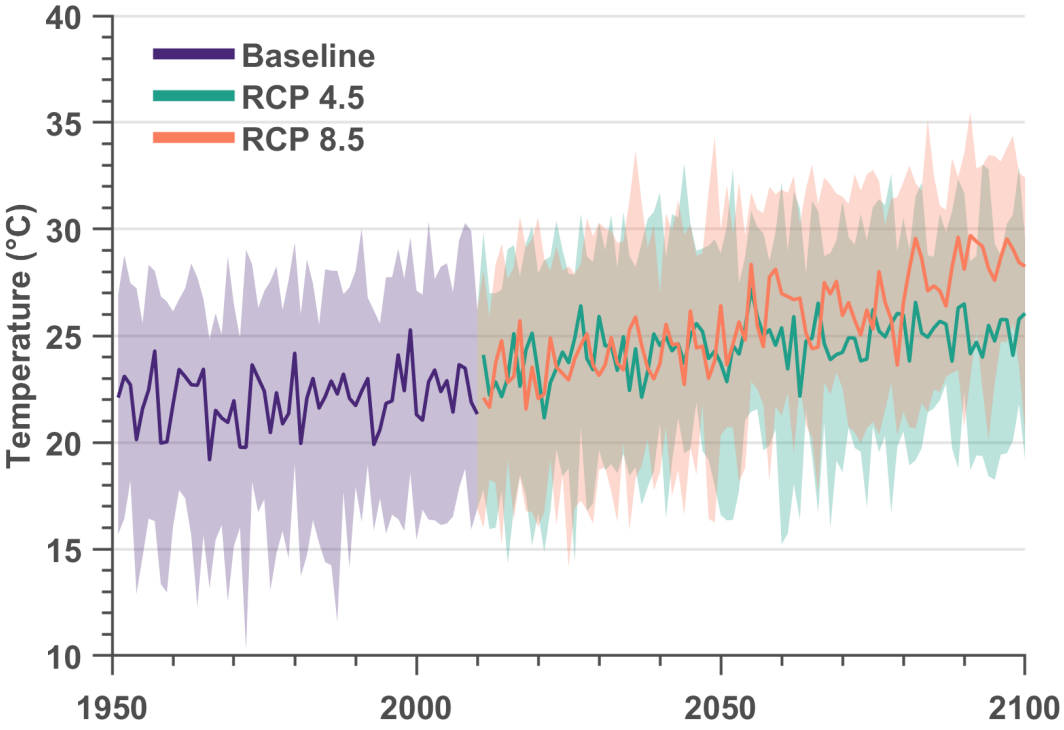


Figure F1.25: Warmest Monthly Temperature - April.

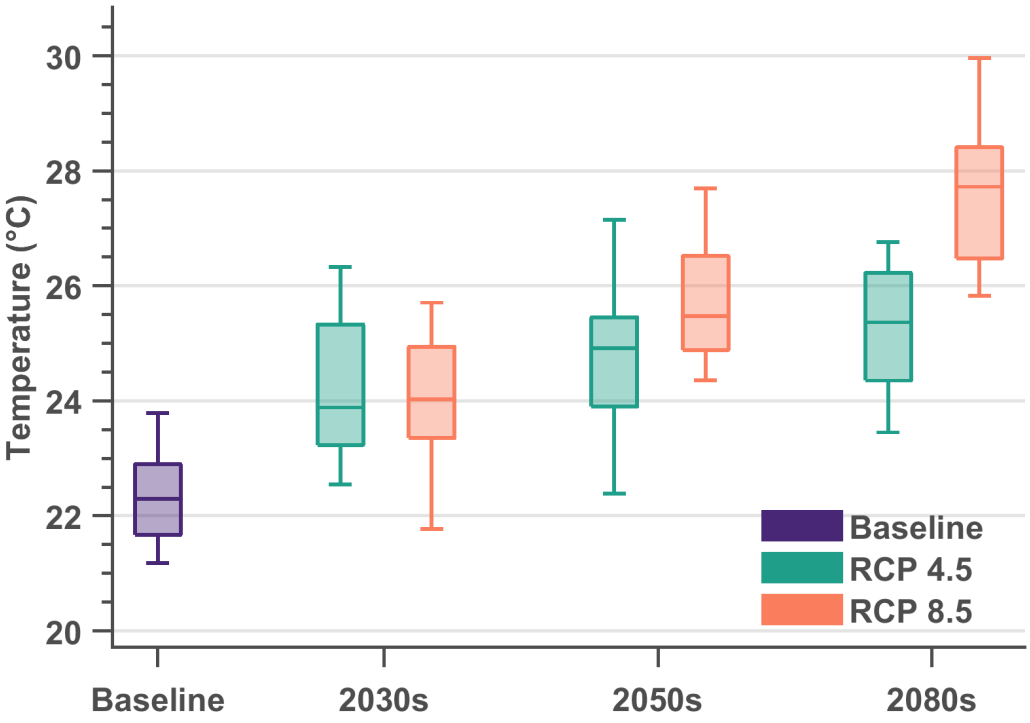


Figure F1.26: Warmest Monthly Temperature - April.

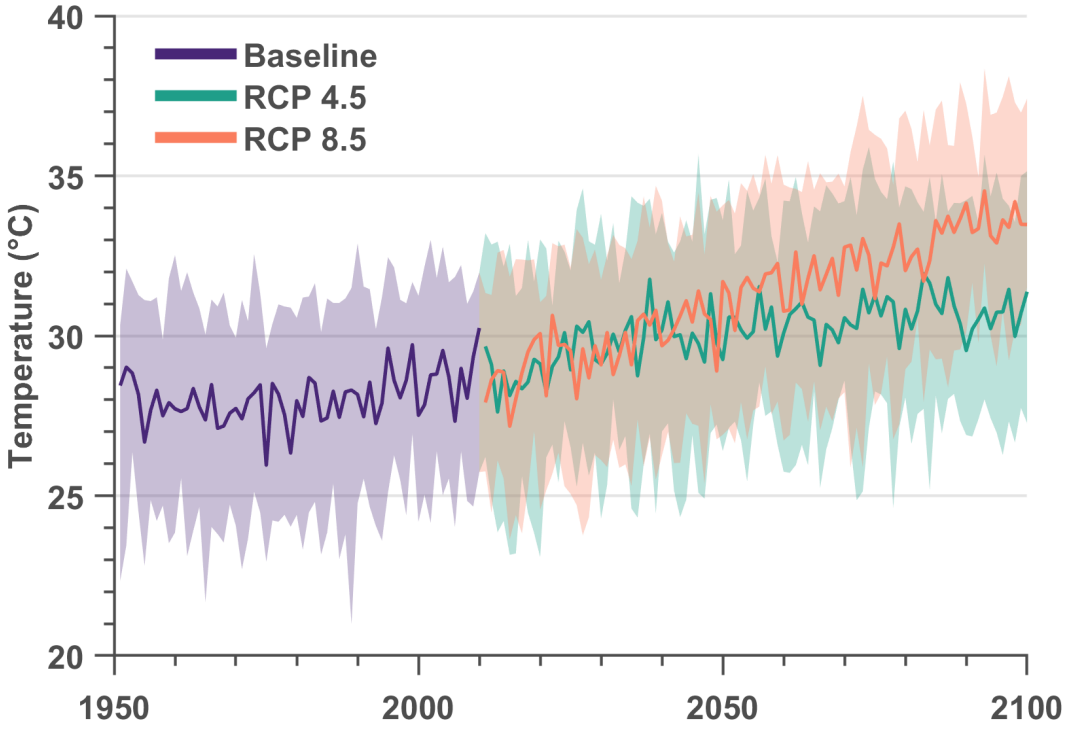


Figure F1.27: Warmest Monthly Temperature - May.

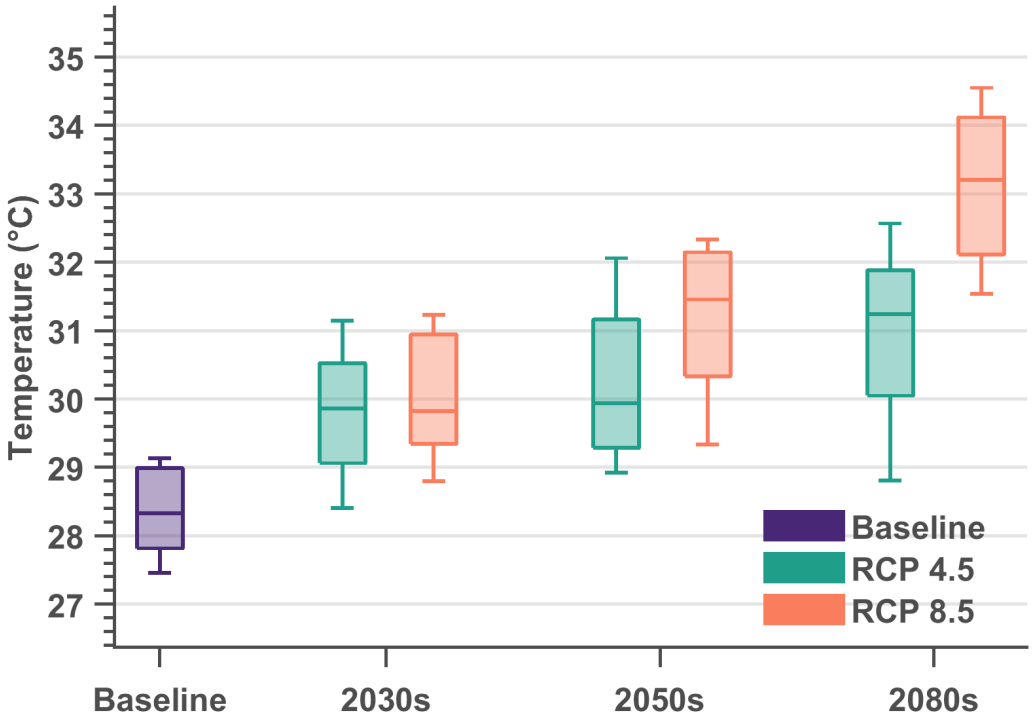


Figure F1.28: Warmest Monthly Temperature - May.

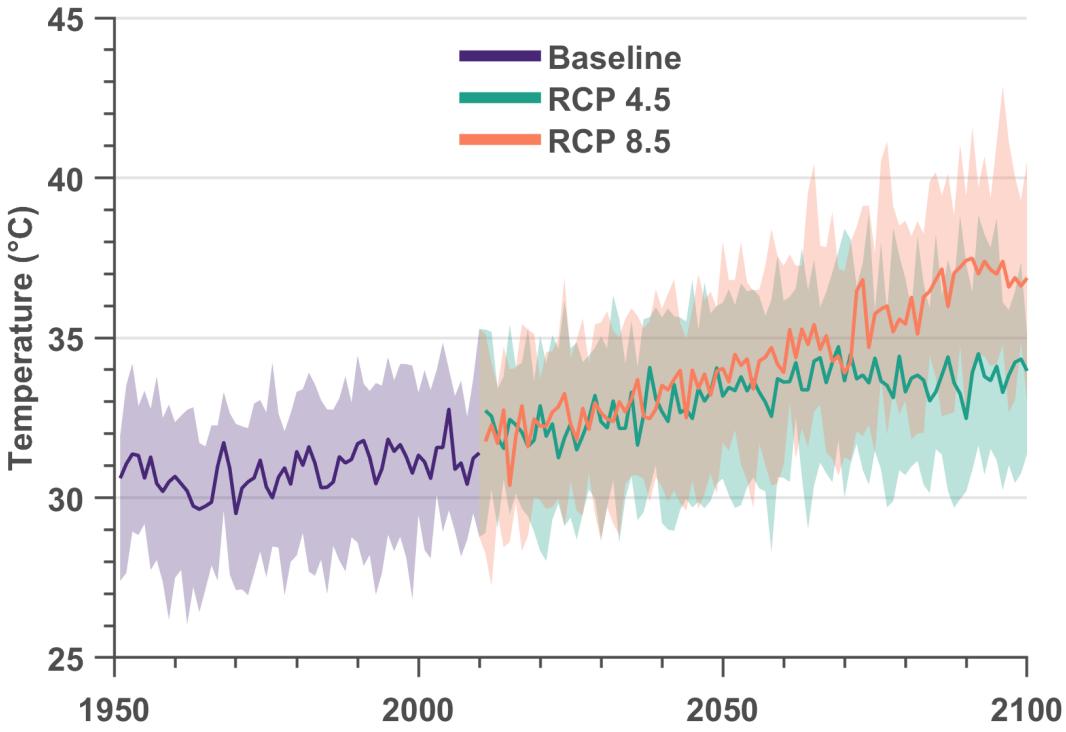


Figure F1.29: Warmest Monthly Temperature - June.

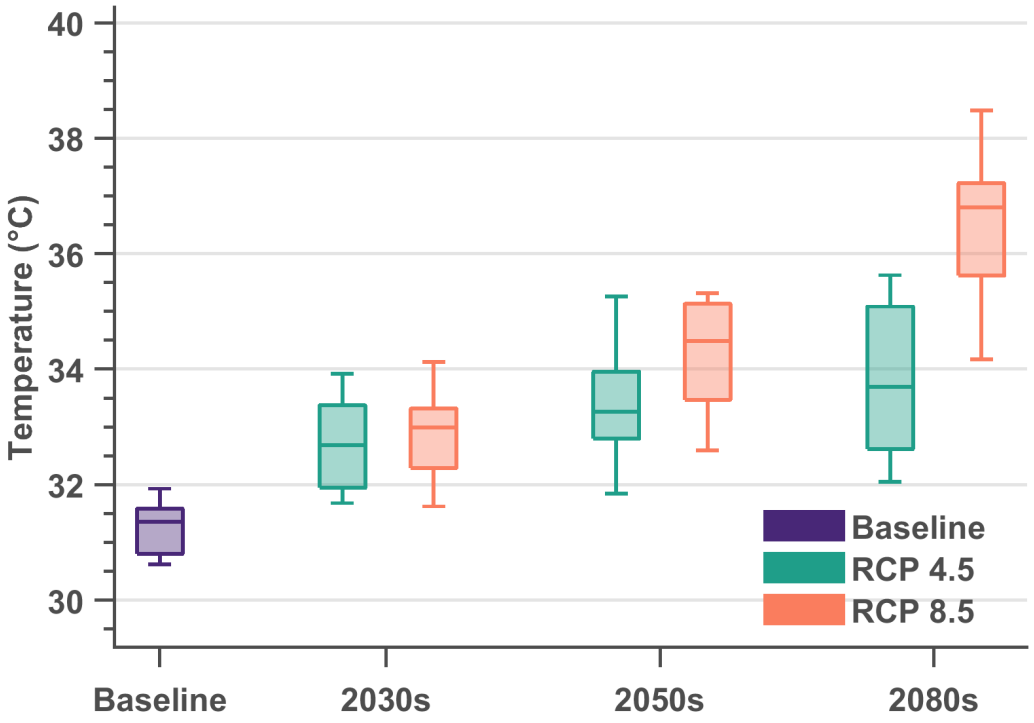


Figure F1.30: Warmest Monthly Temperature - June.

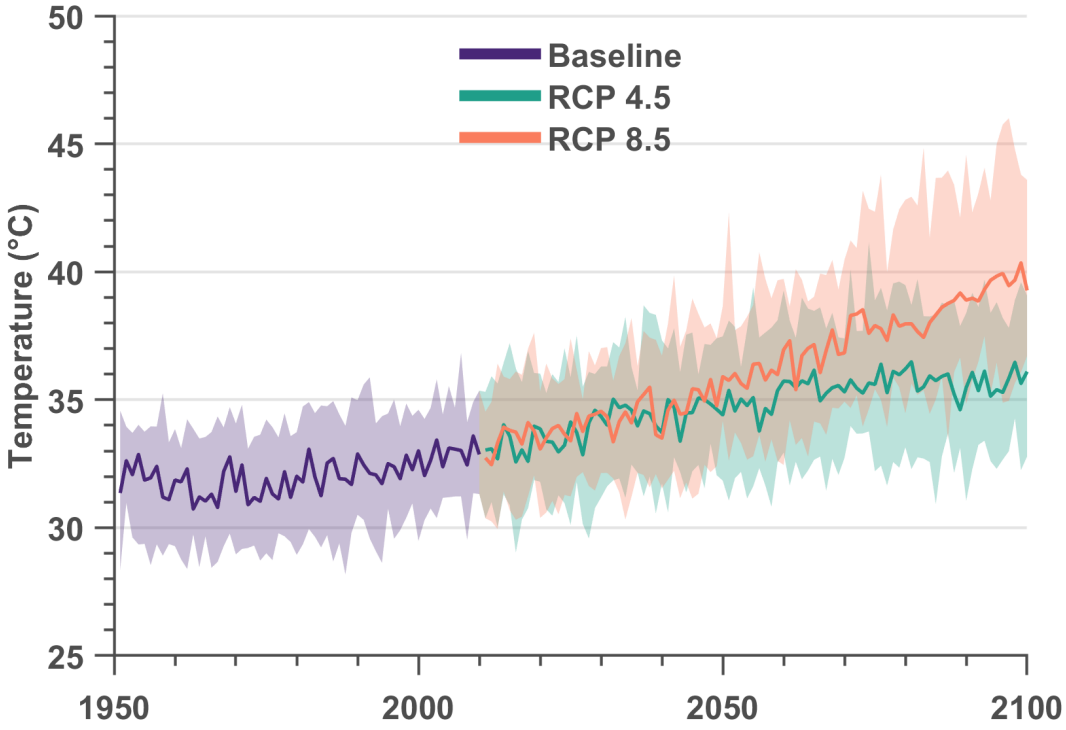


Figure F1.31: Warmest Monthly Temperature - July.

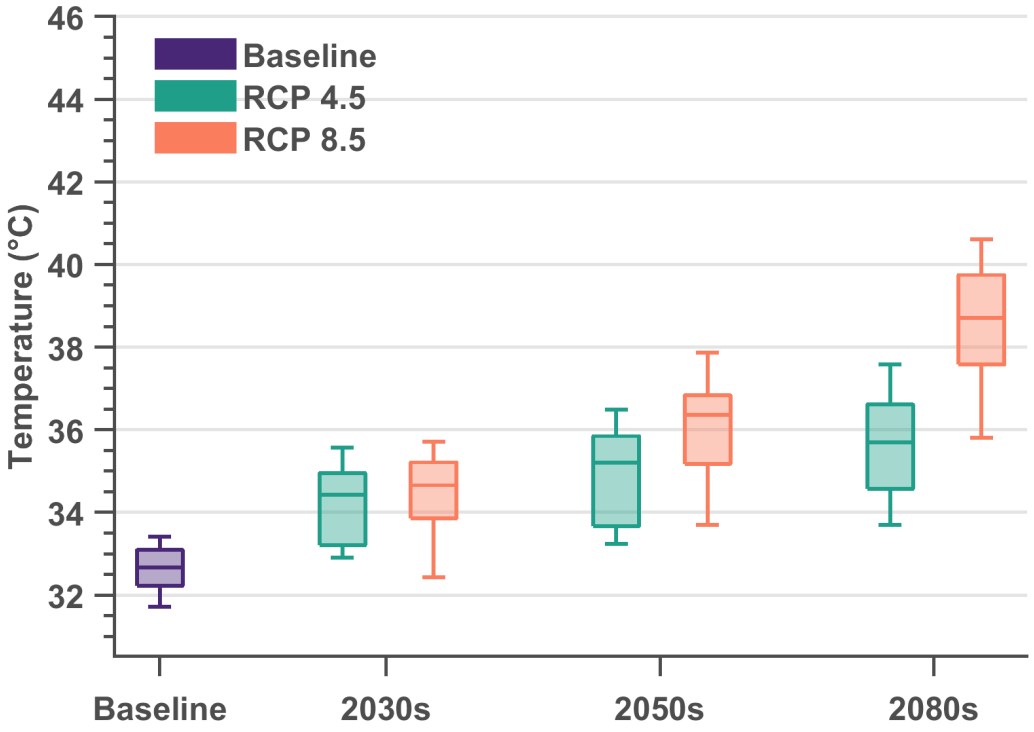


Figure F1.32: Warmest Monthly Temperature - July.

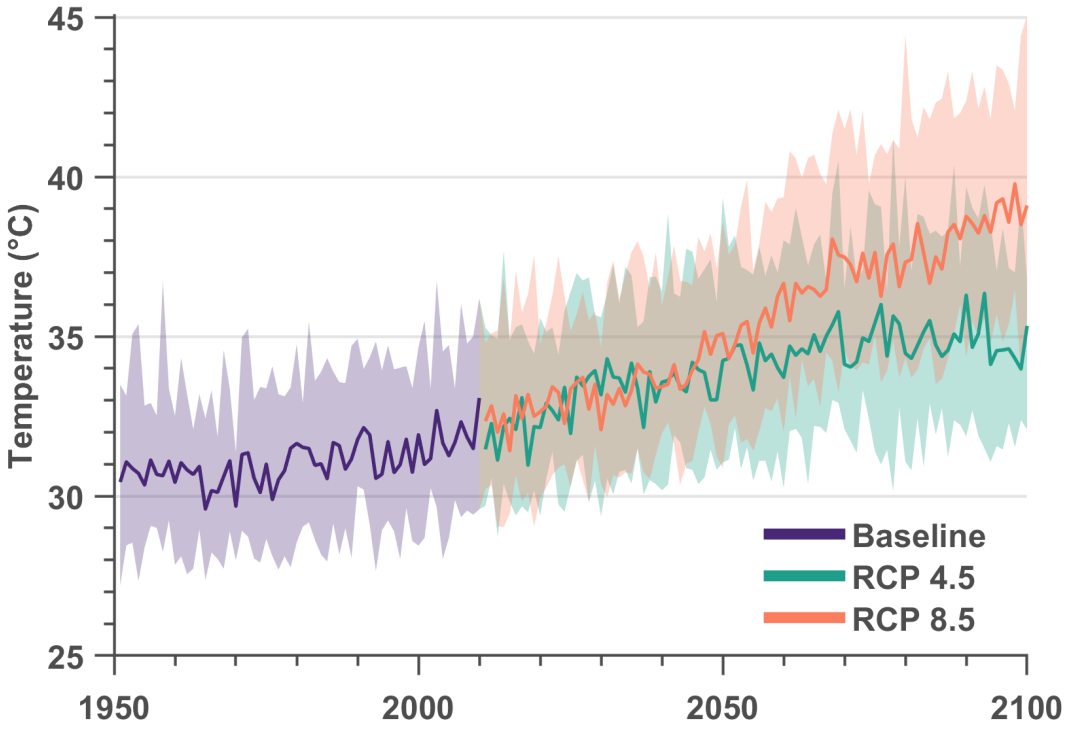


Figure F1.33: Warmest Monthly Temperature - August.

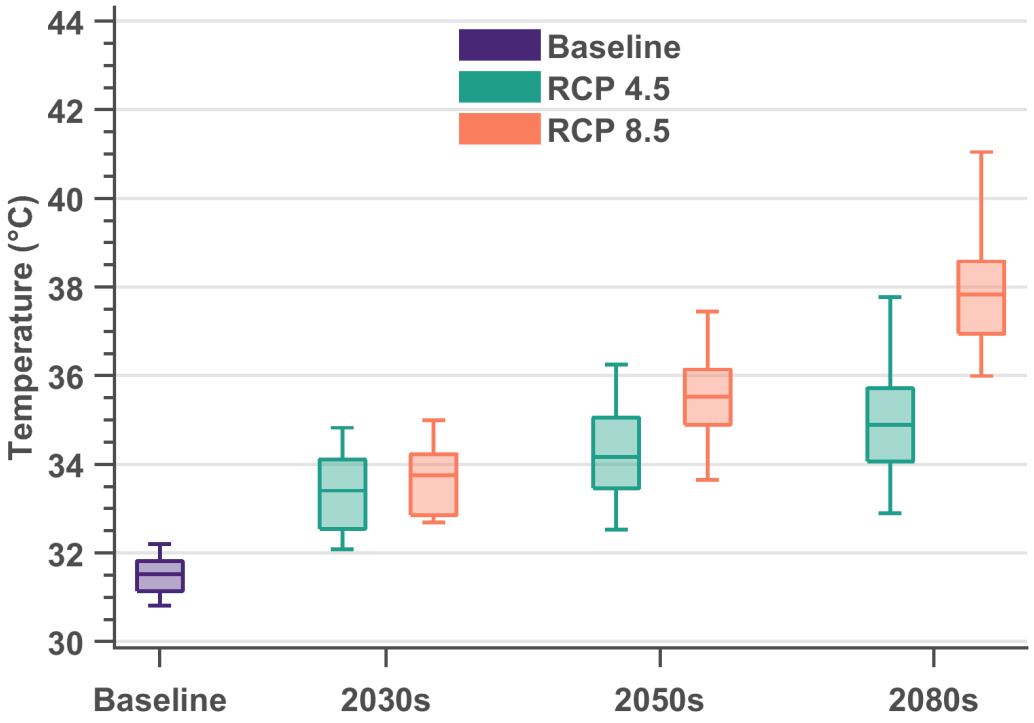


Figure F1.34: Warmest Monthly Temperature - August.

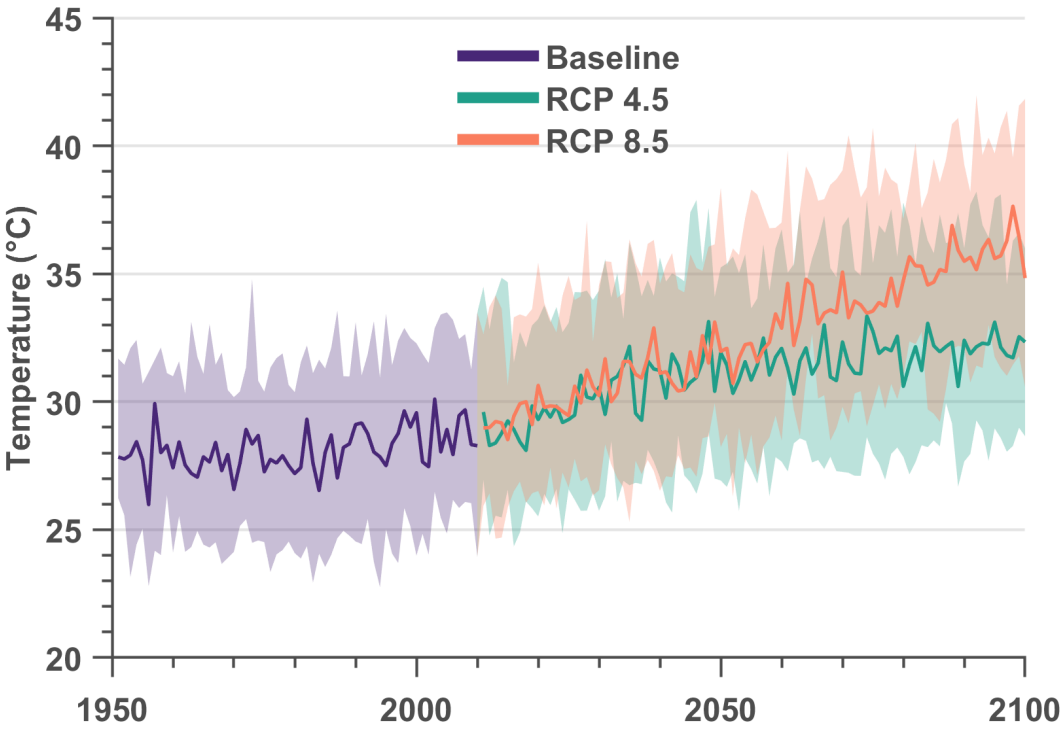


Figure F1.35: Warmest Monthly Temperature - September.

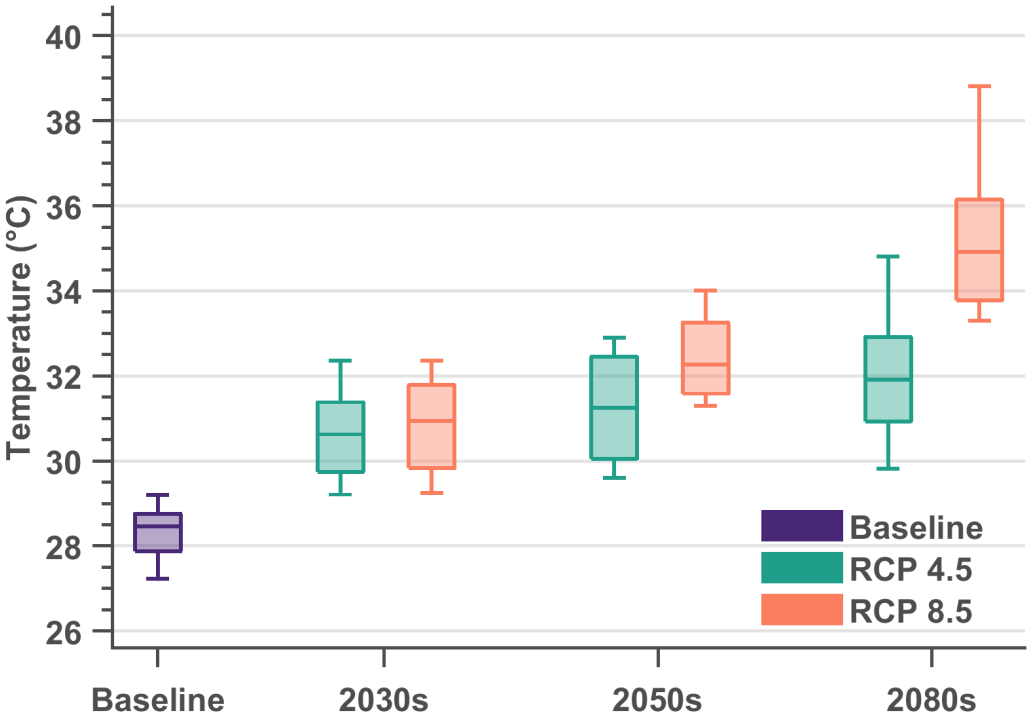


Figure F1.36: Warmest Monthly Temperature - September.

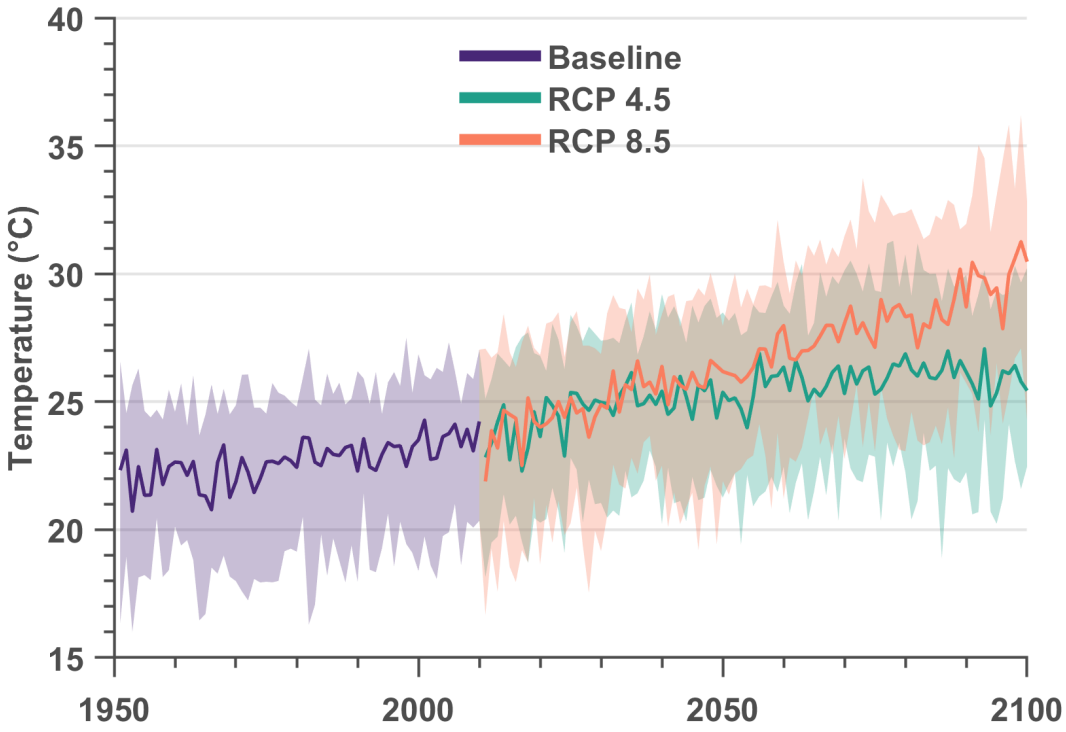


Figure F1.37: Warmest Monthly Temperature - October.

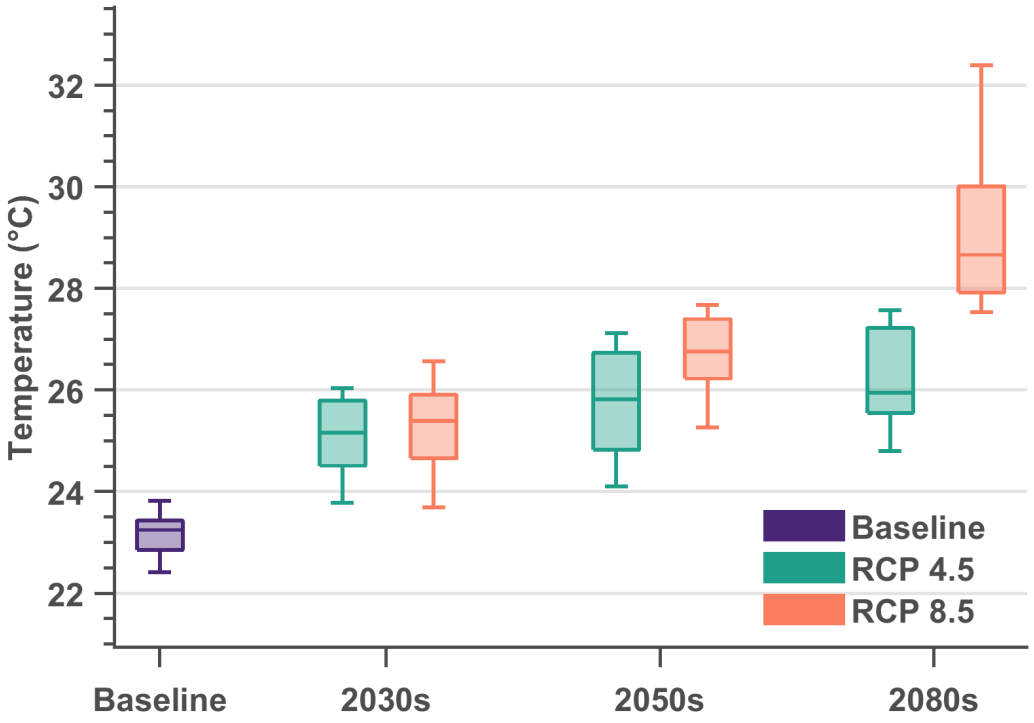


Figure F1.38: Warmest Monthly Temperature - October.

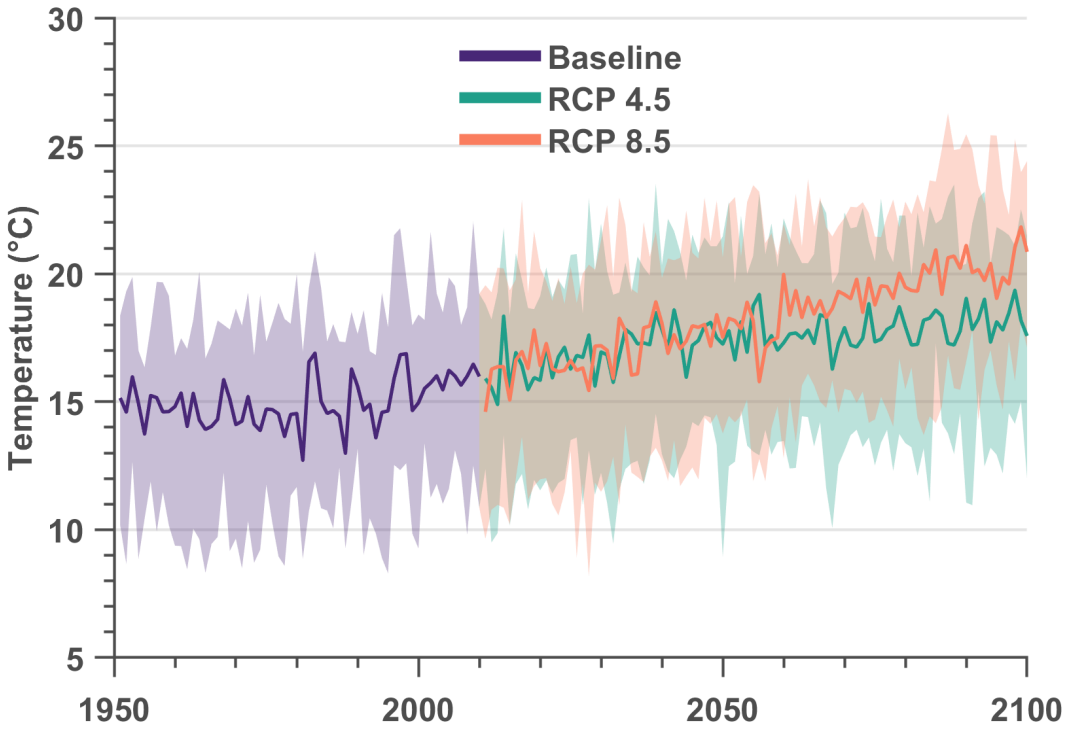


Figure F1.39: Warmest Monthly Temperature - November.

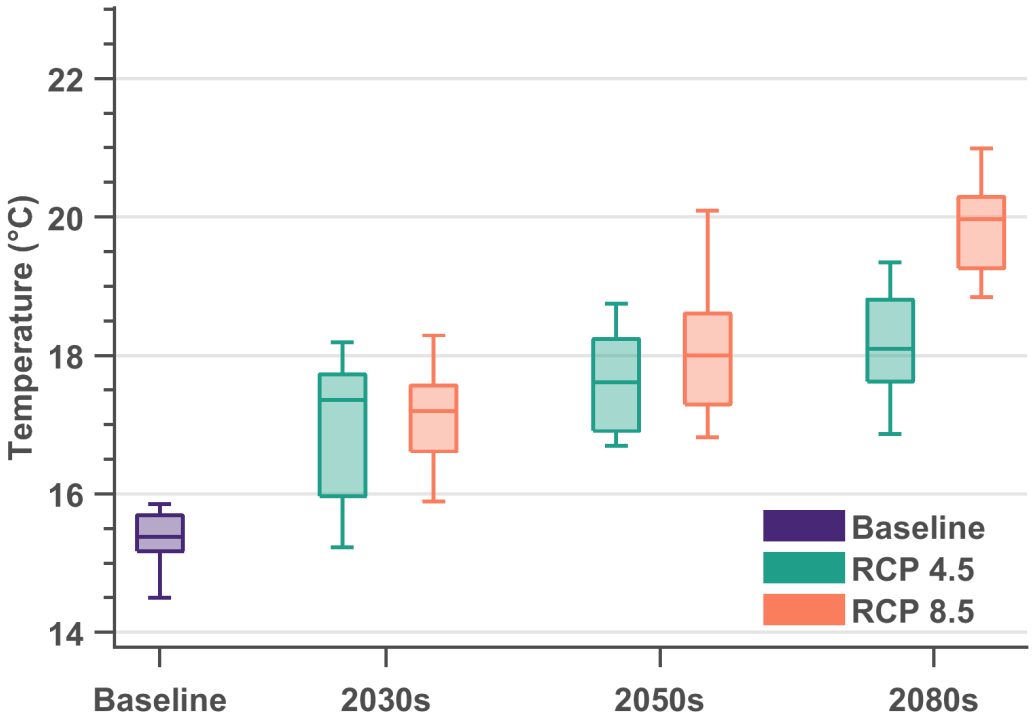


Figure F1.40: Warmest Monthly Temperature - November.

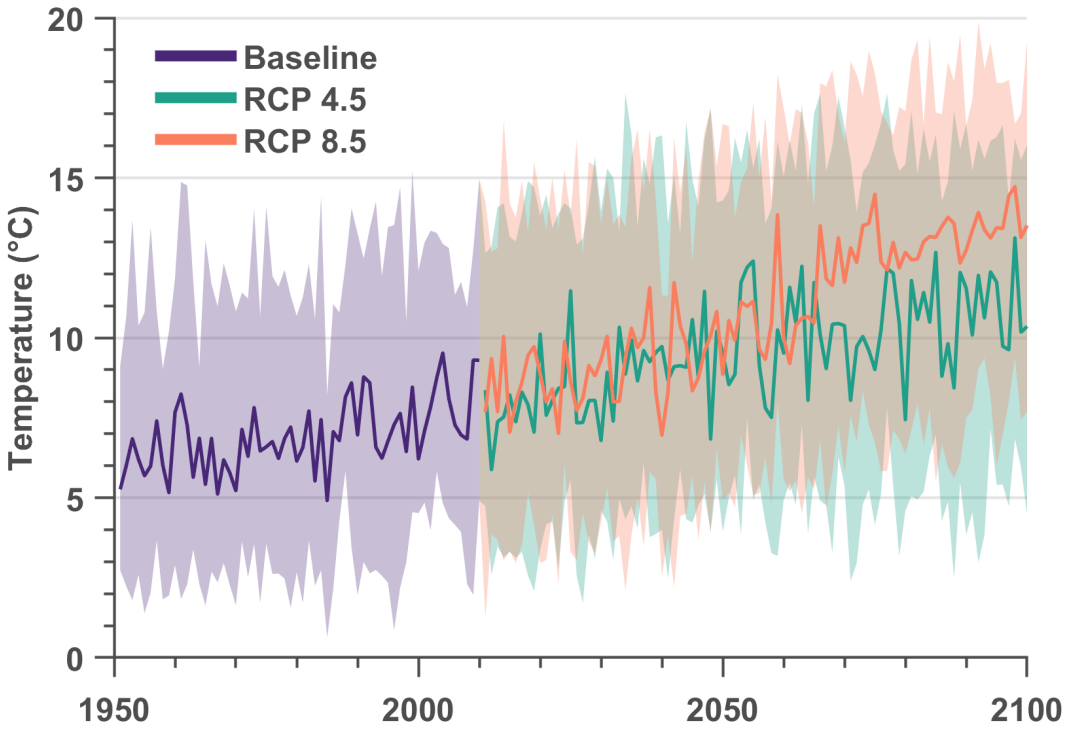


Figure F1.41: Warmest Monthly Temperature - December.

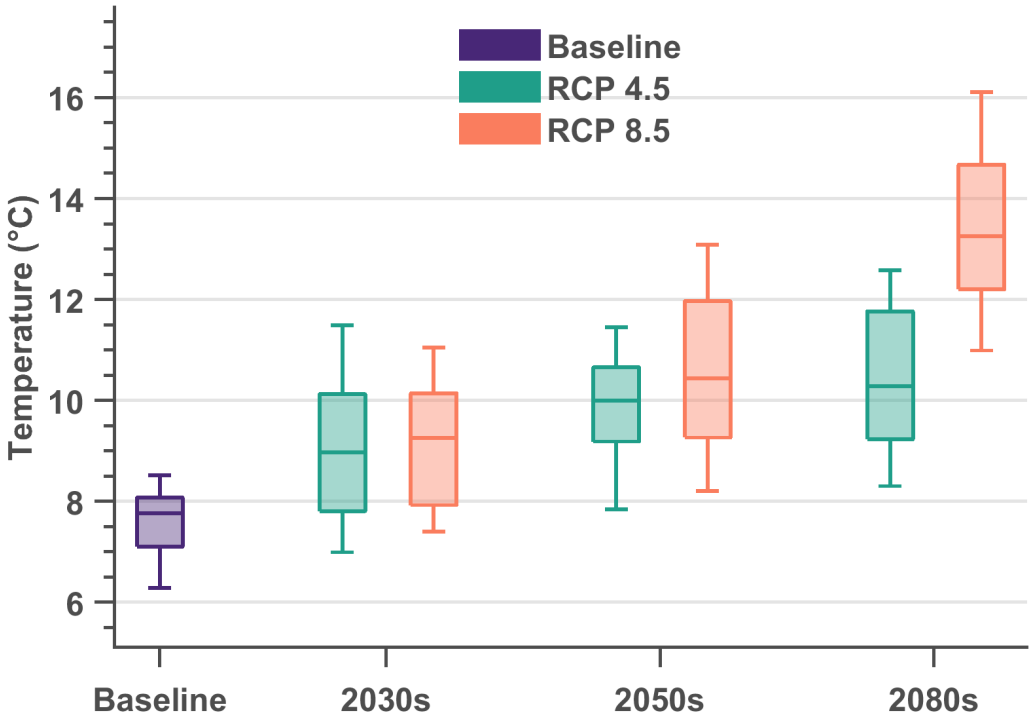


Figure F1.42: Warmest Monthly Temperature - December.

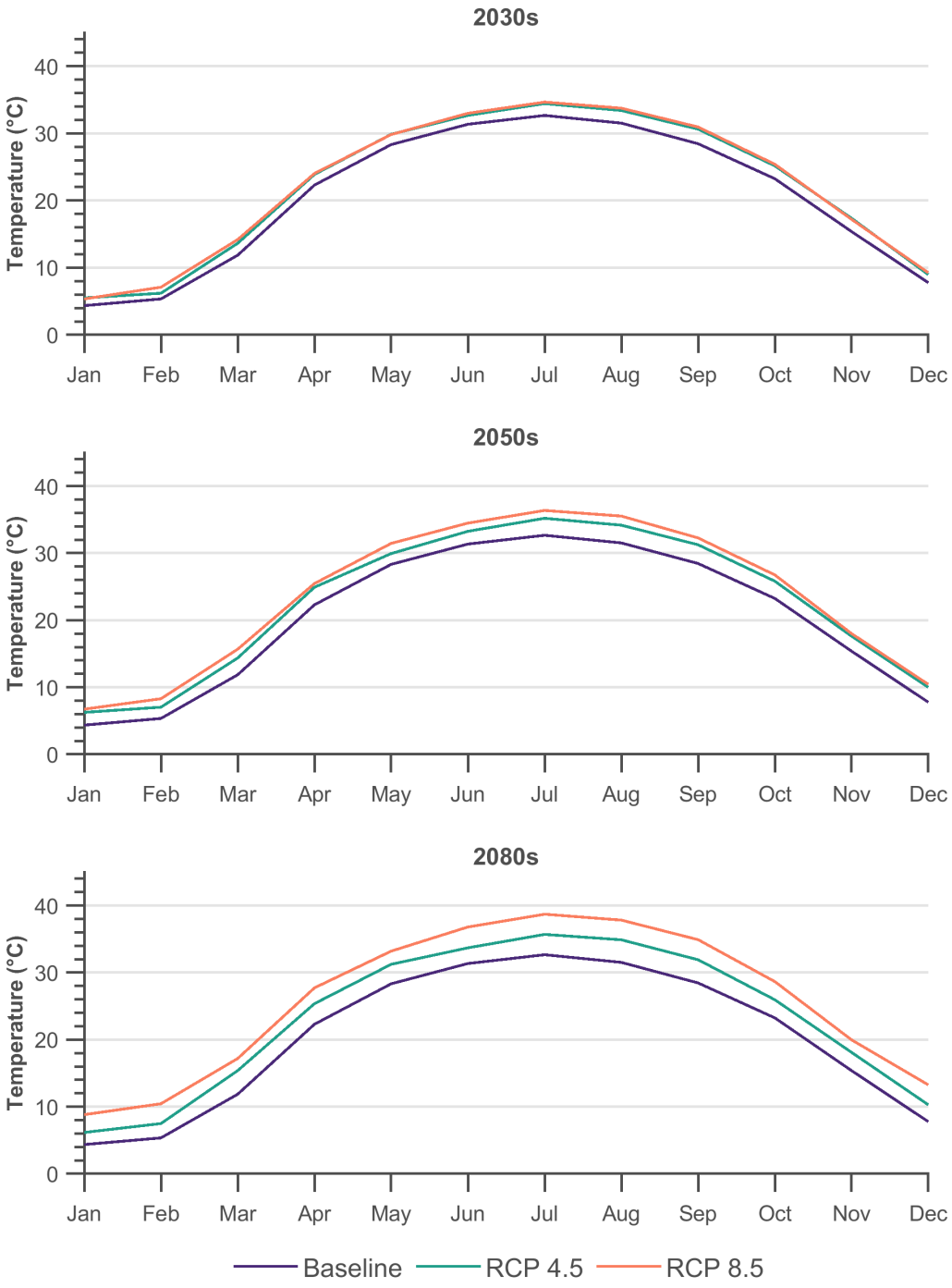


Figure F1.43: Warmest Monthly Temperature.

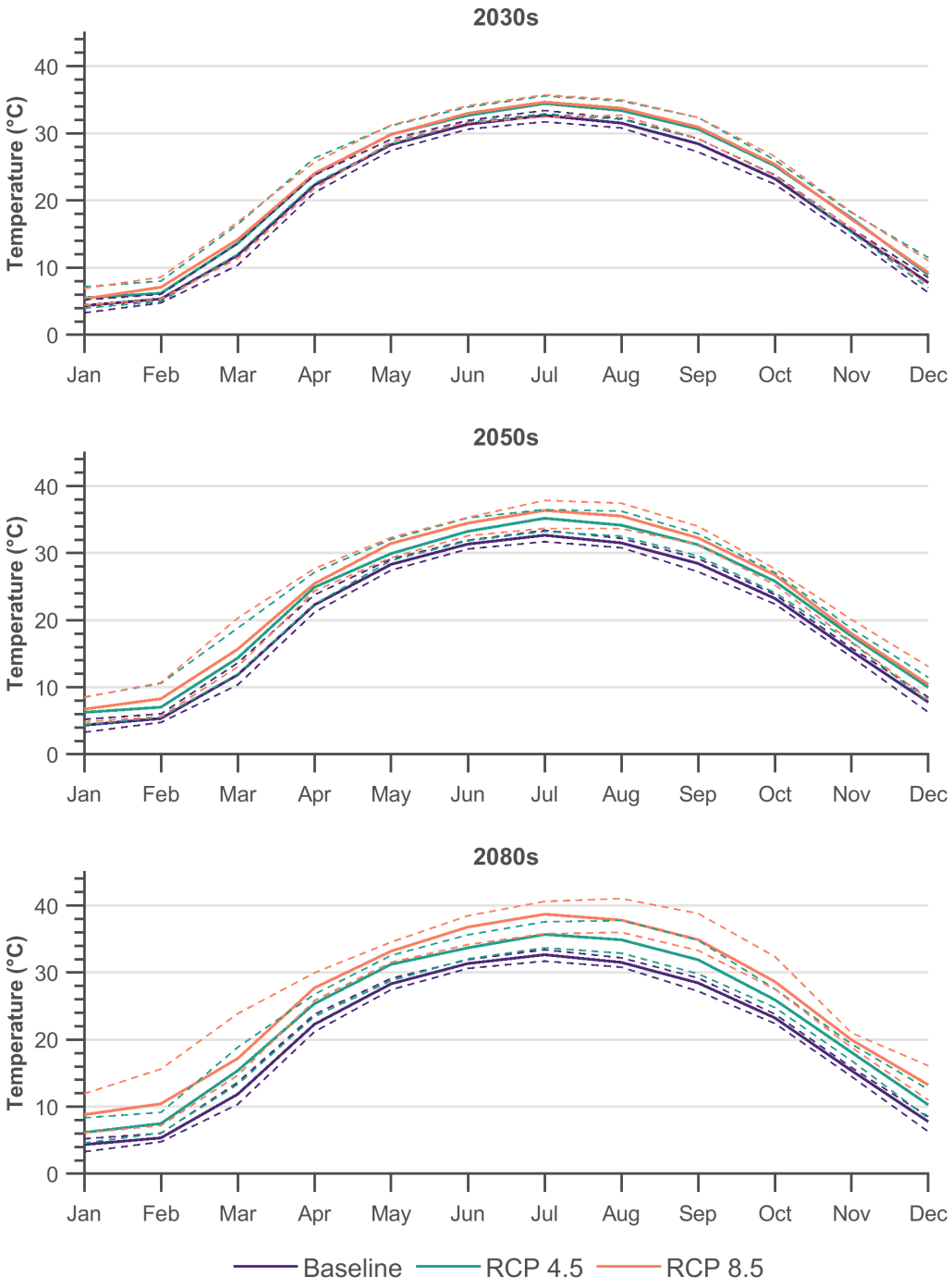


Figure F1.44: Warmest Monthly Temperature. Dashed lines indicate the 10% and 90% percentile.

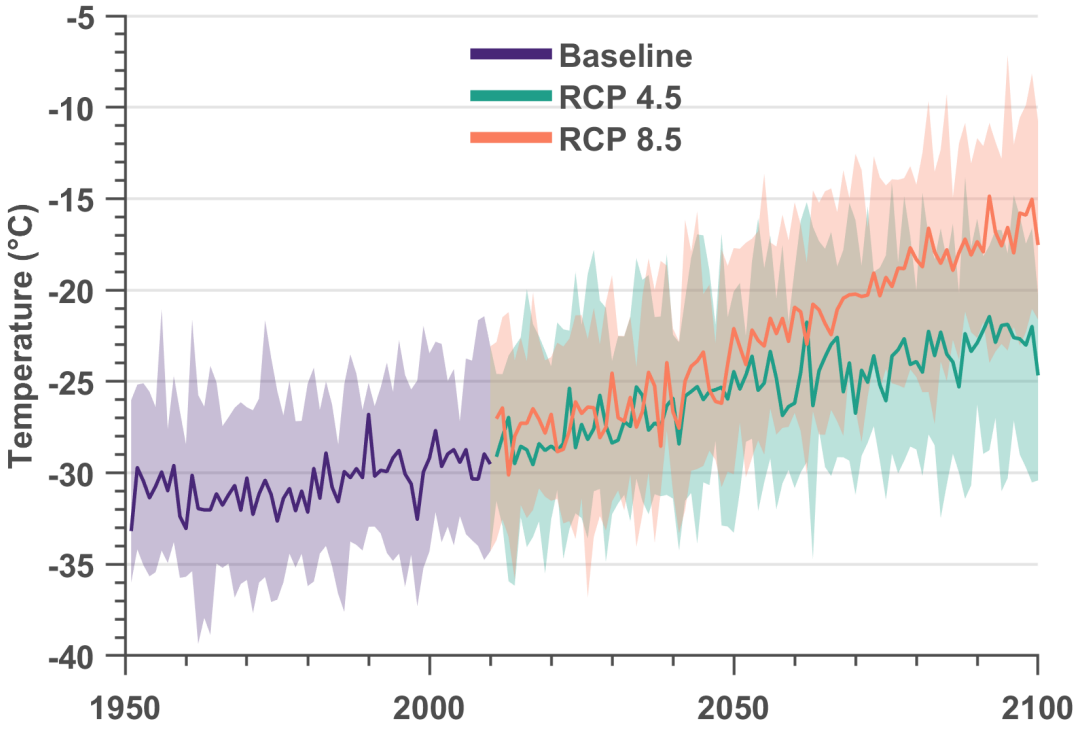


Figure F1.45: Coldest Monthly Temperature - January.

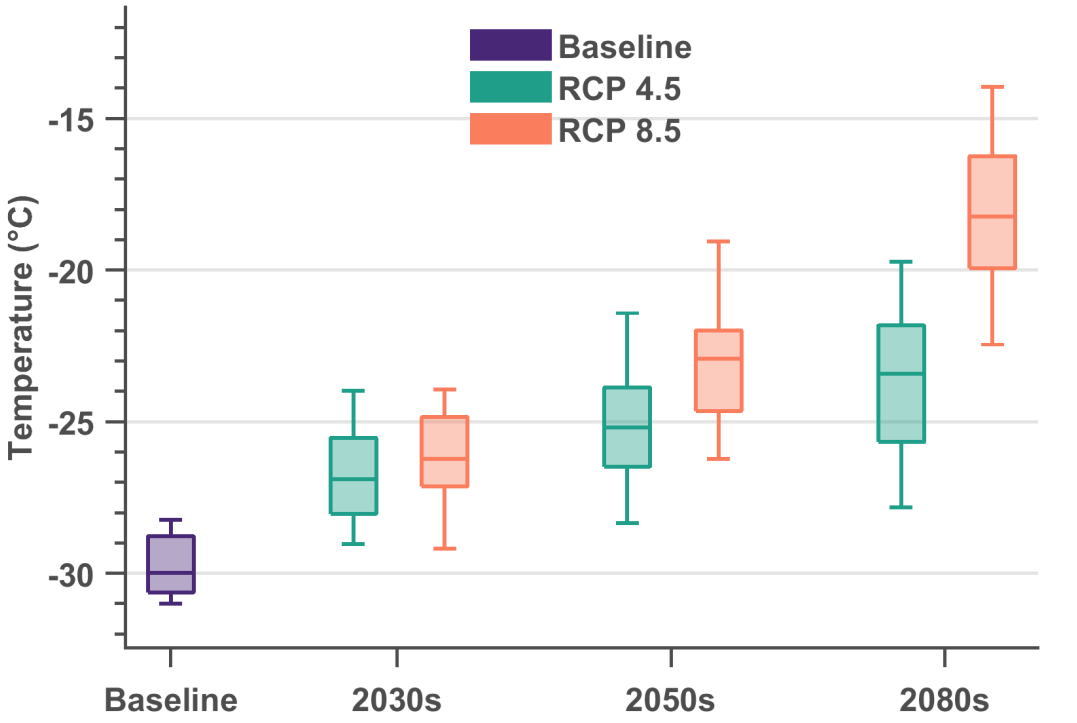


Figure F1.46: Coldest Monthly Temperature - January.

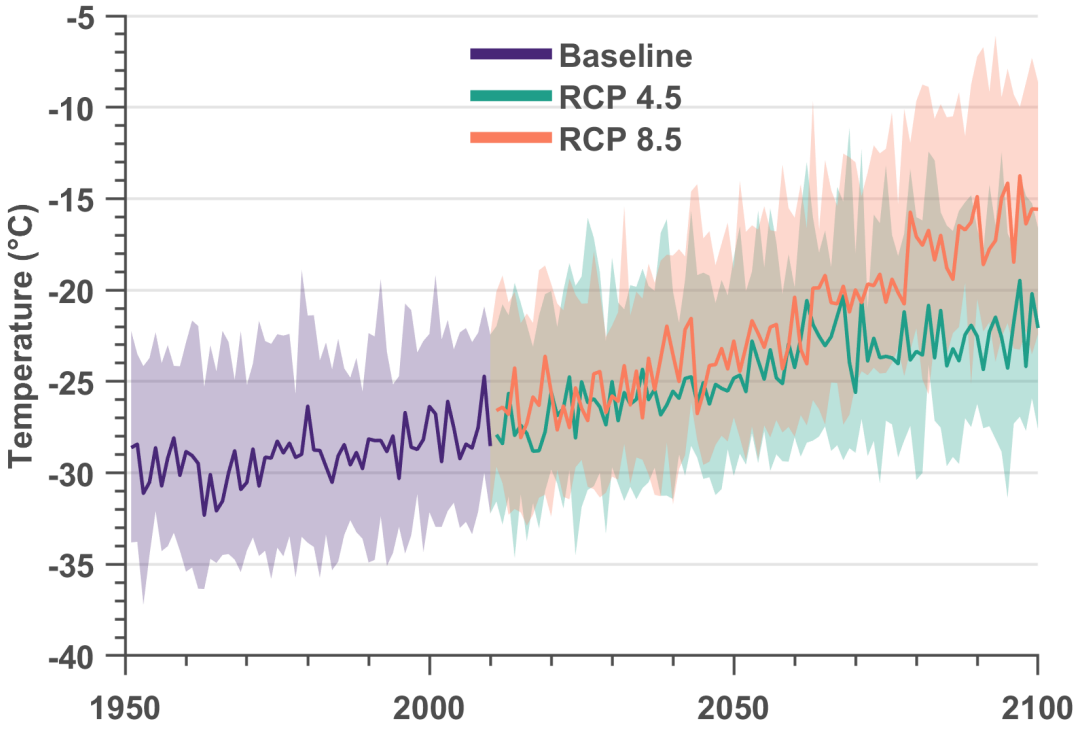


Figure F1.47: Coldest Monthly Temperature - February.

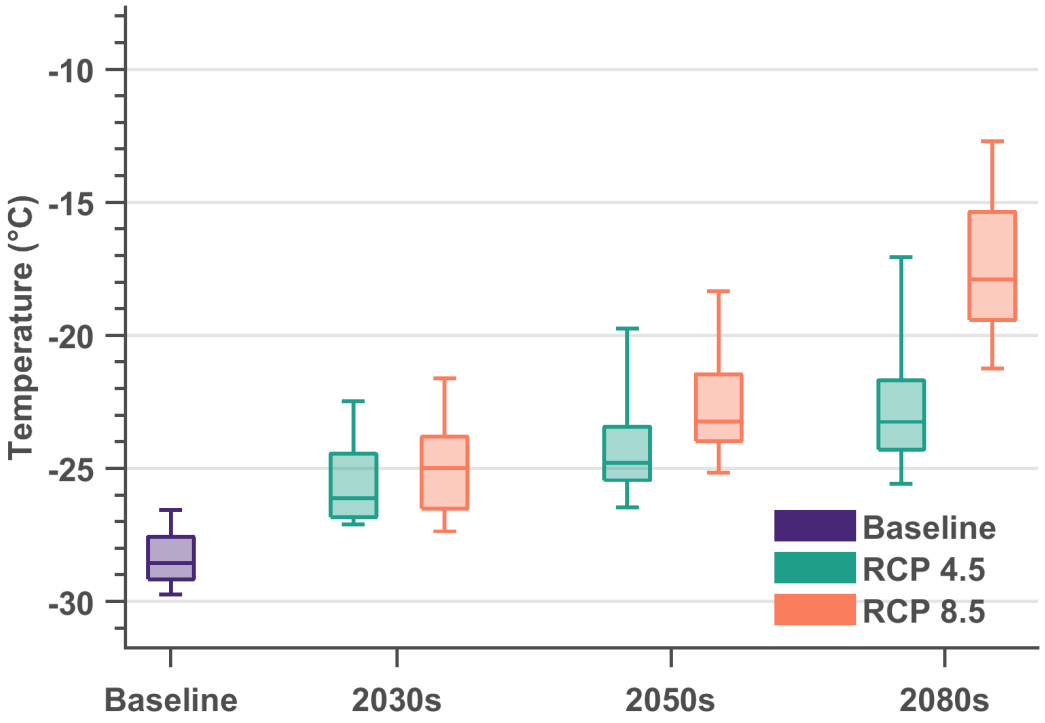


Figure F1.48: Coldest Monthly Temperature - February.

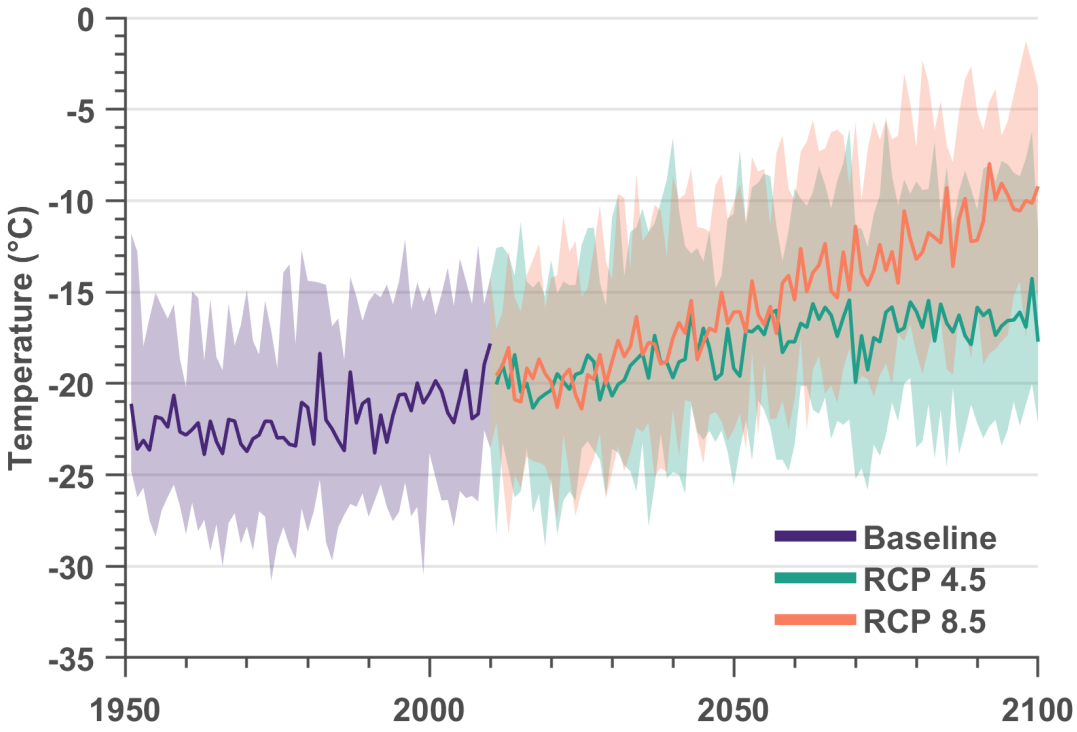


Figure F1.49: Coldest Monthly Temperature - March.

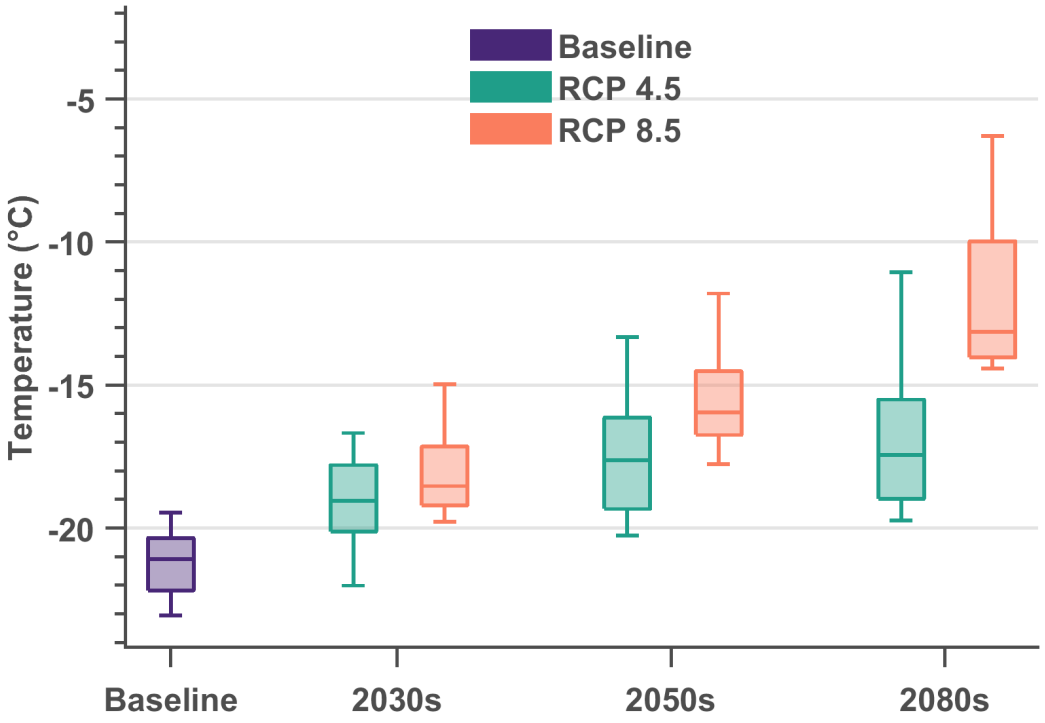


Figure F1.50: Coldest Monthly Temperature - March.

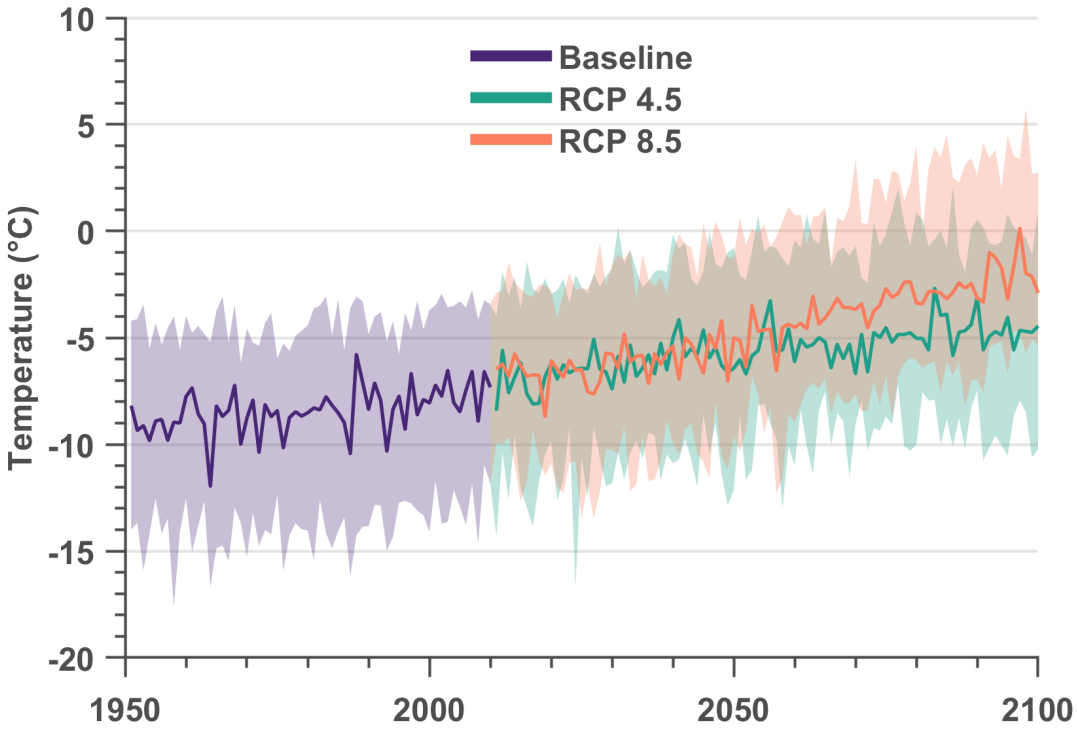


Figure F1.51: Coldest Monthly Temperature - April.

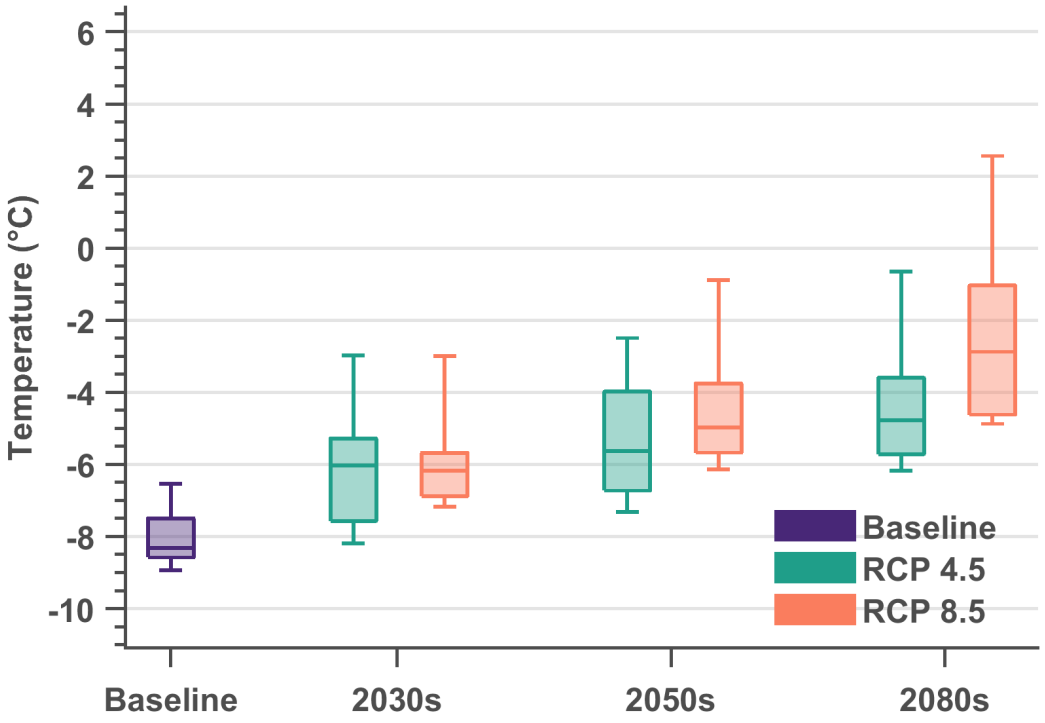


Figure F1.52: Coldest Monthly Temperature - April.

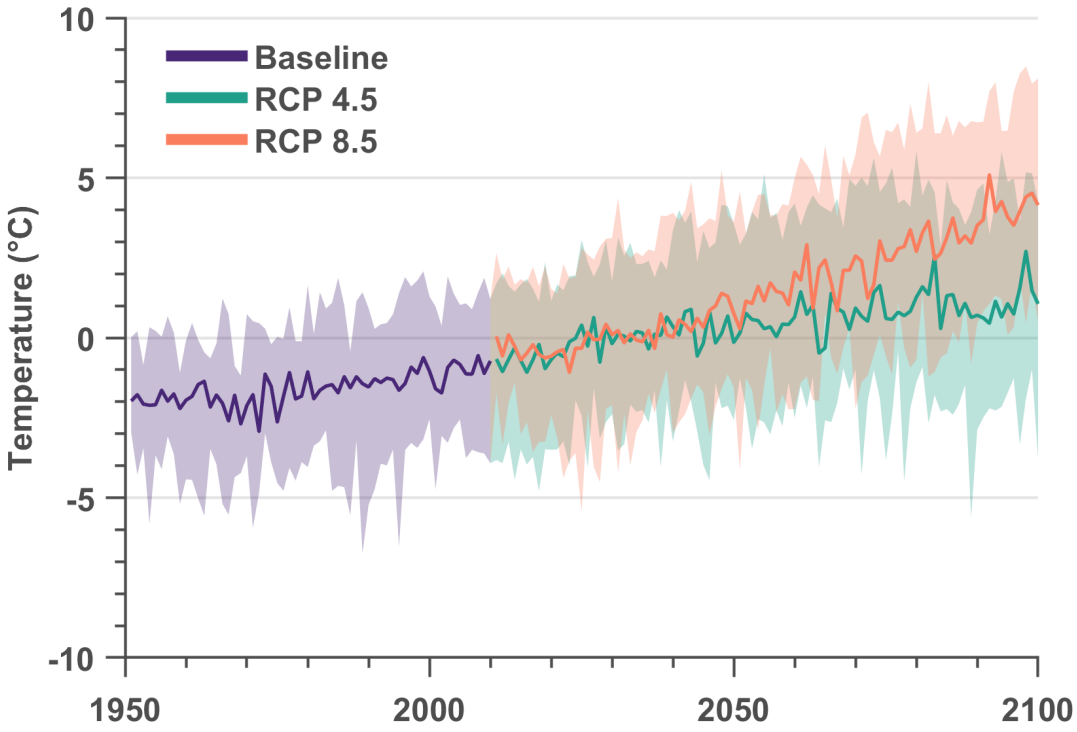


Figure F1.53: Coldest Monthly Temperature - May.

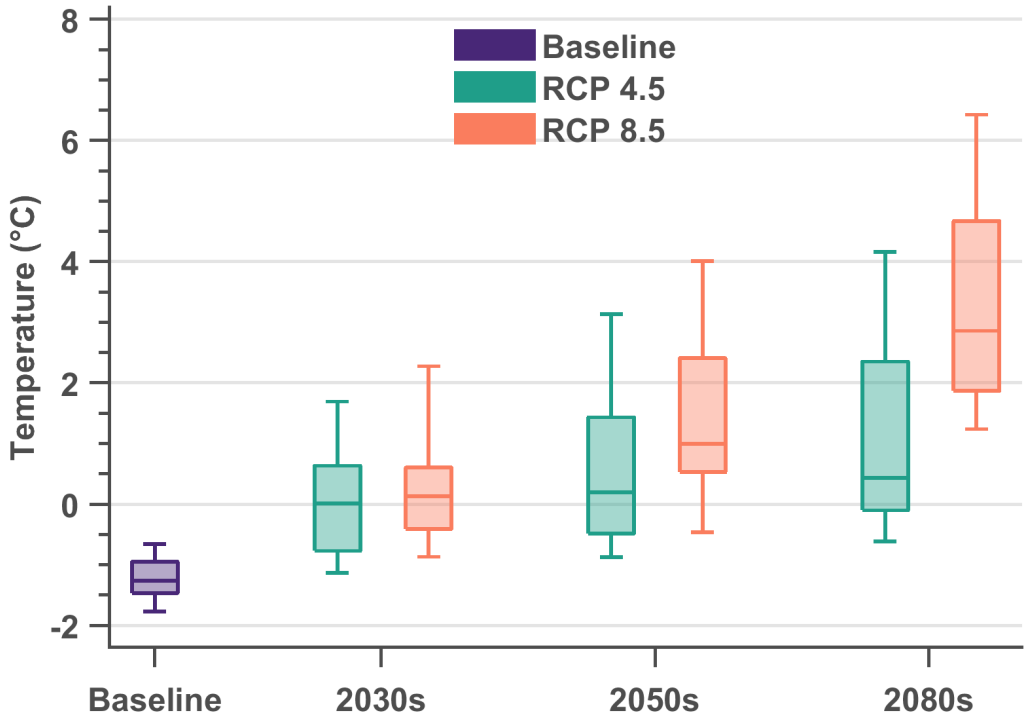


Figure F1.54: Coldest Monthly Temperature - May.

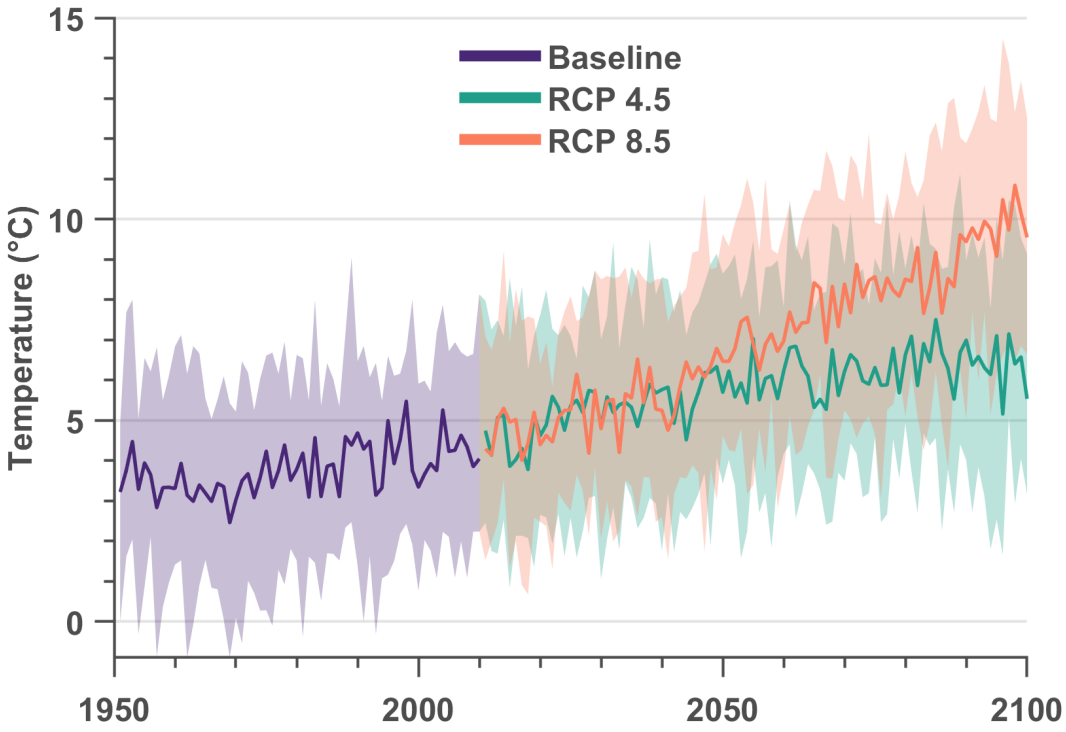


Figure F1.55: Coldest Monthly Temperature - June.

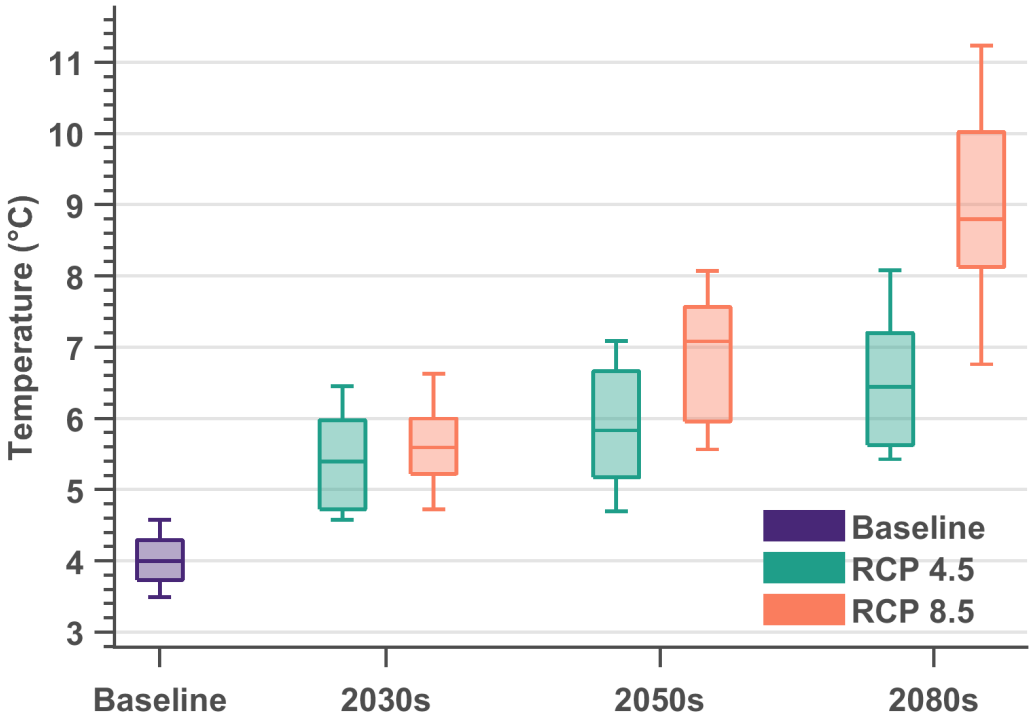


Figure F1.56: Coldest Monthly Temperature - June.

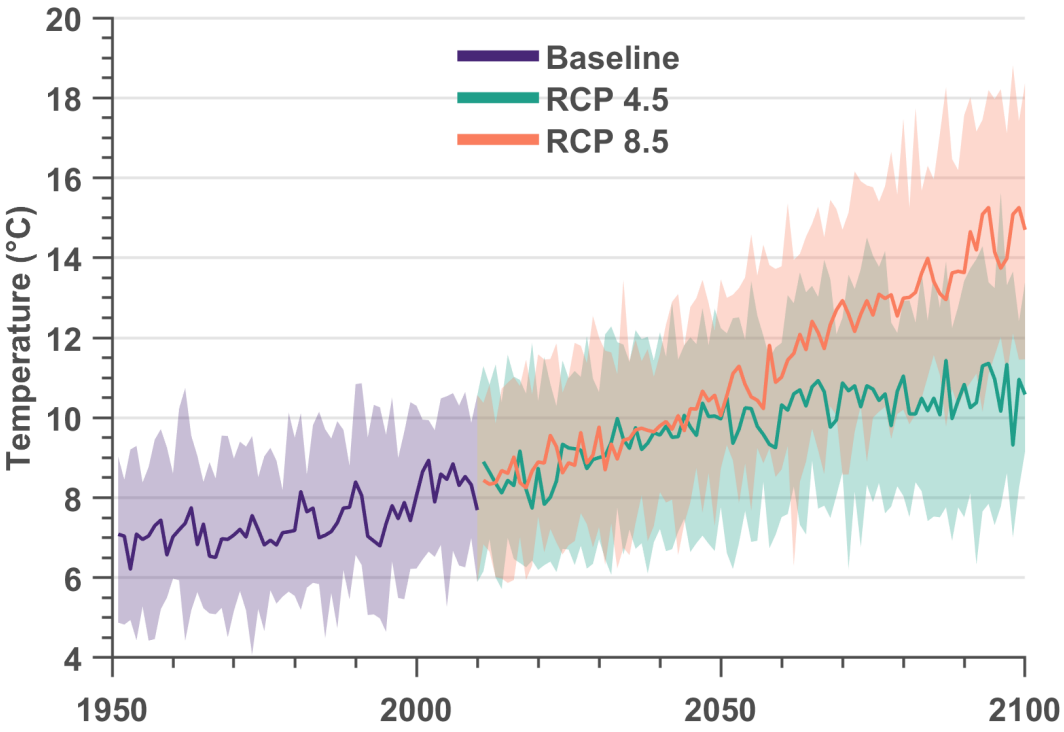


Figure F1.57: Coldest Monthly Temperature - July.

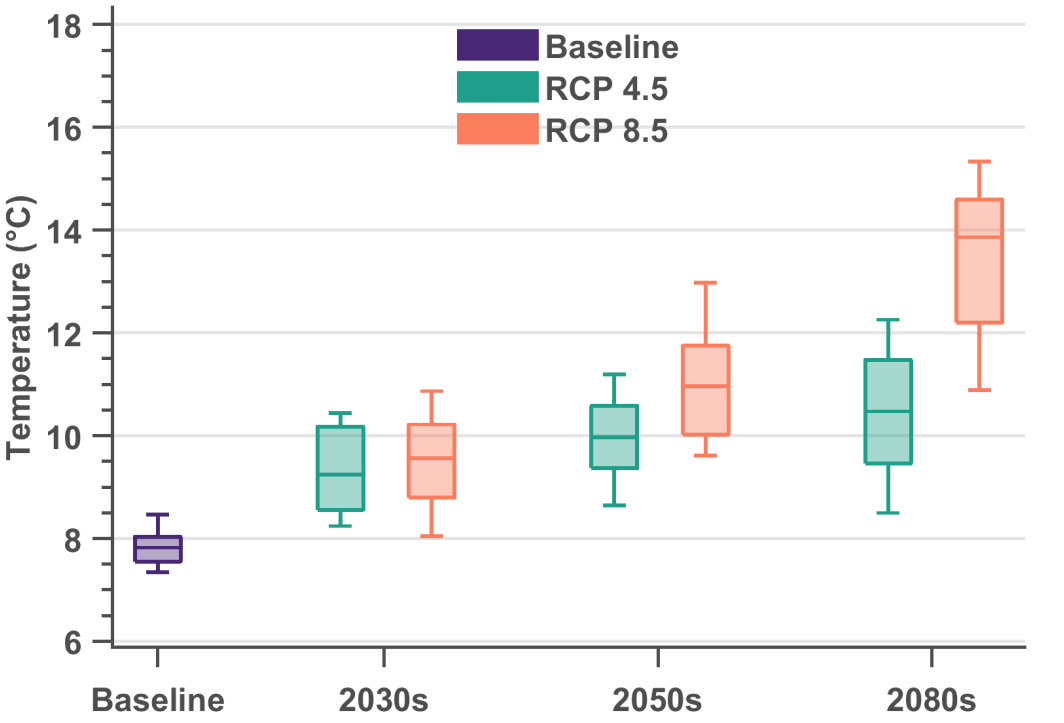


Figure F1.58: Coldest Monthly Temperature - July.

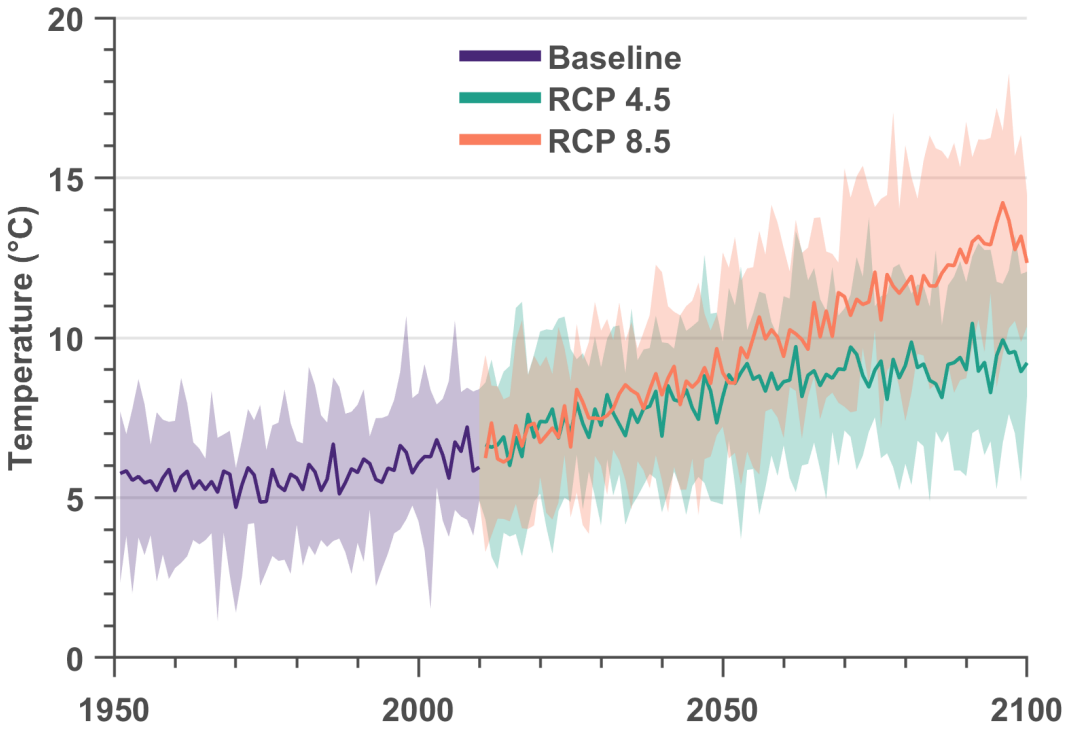


Figure F1.59: Coldest Monthly Temperature - August.

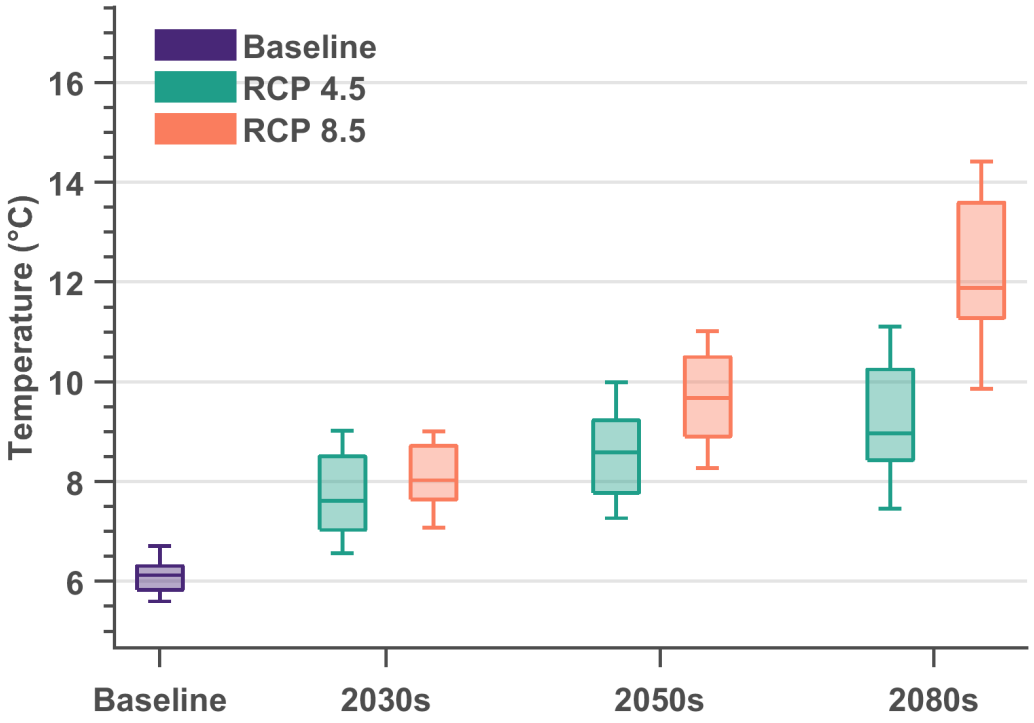


Figure F1.60: Coldest Monthly Temperature - August.

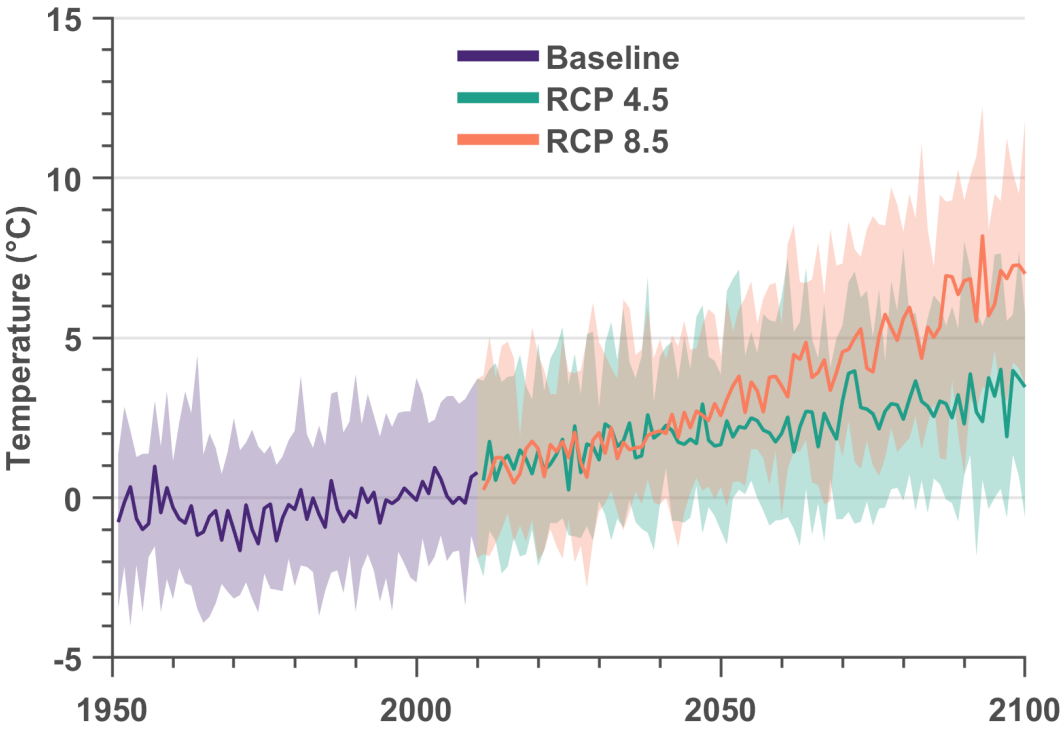


Figure F1.61: Coldest Monthly Temperature - September.

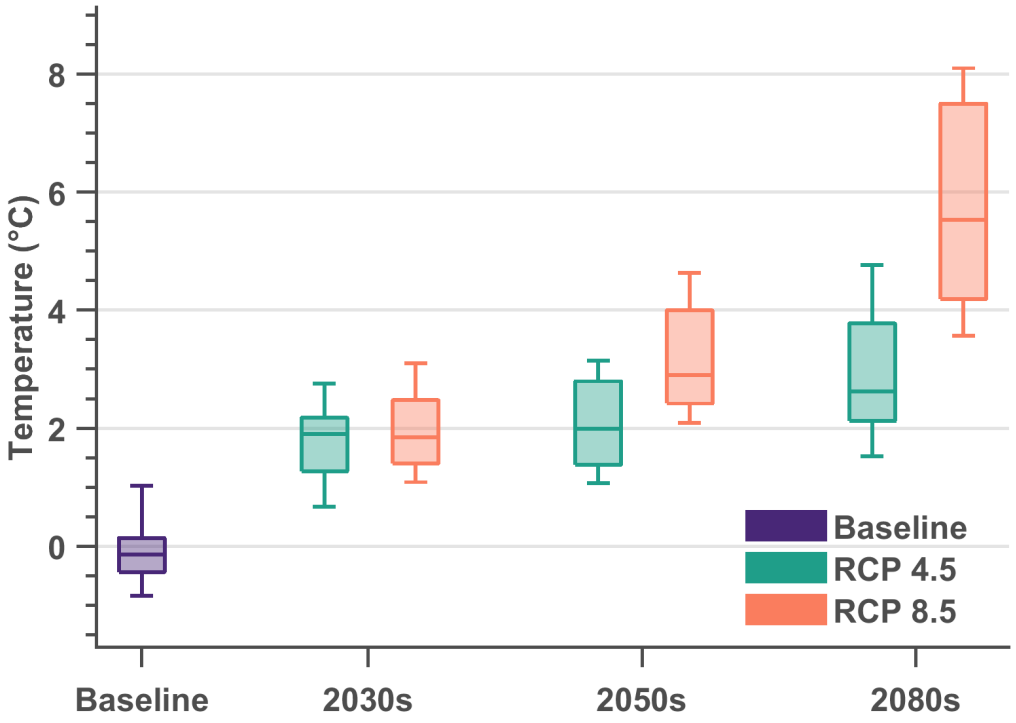


Figure F1.62: Coldest Monthly Temperature - September.

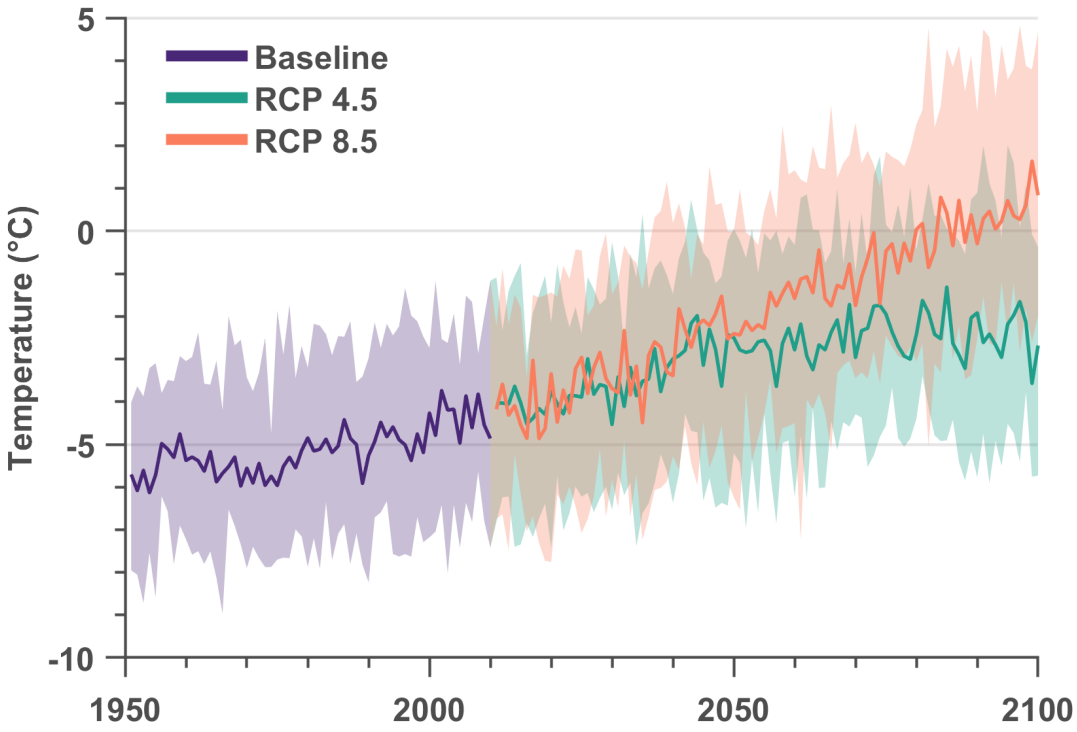


Figure F1.63: Coldest Monthly Temperature - October.

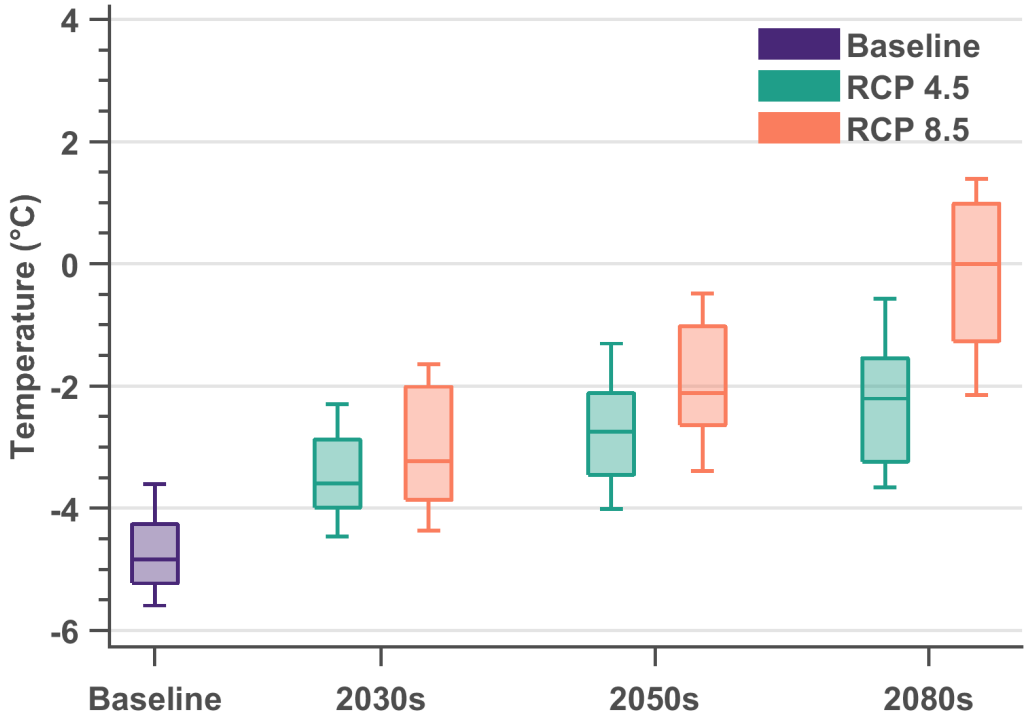


Figure F1.64: Coldest Monthly Temperature - October.

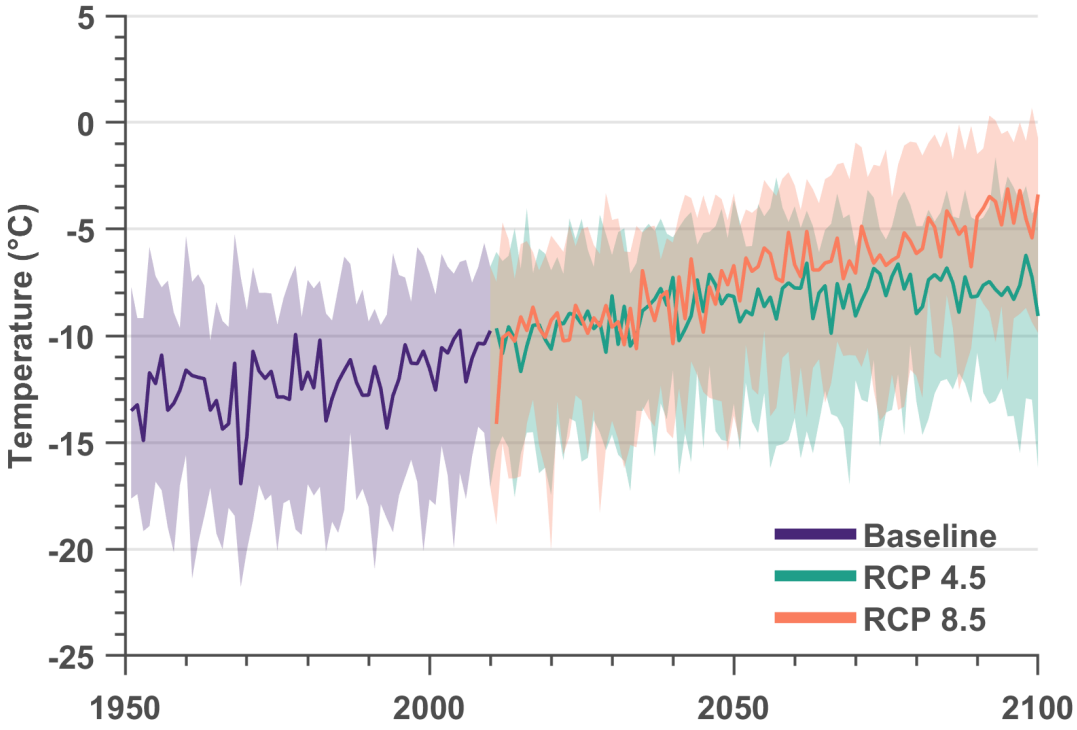


Figure F1.65: Coldest Monthly Temperature - November.

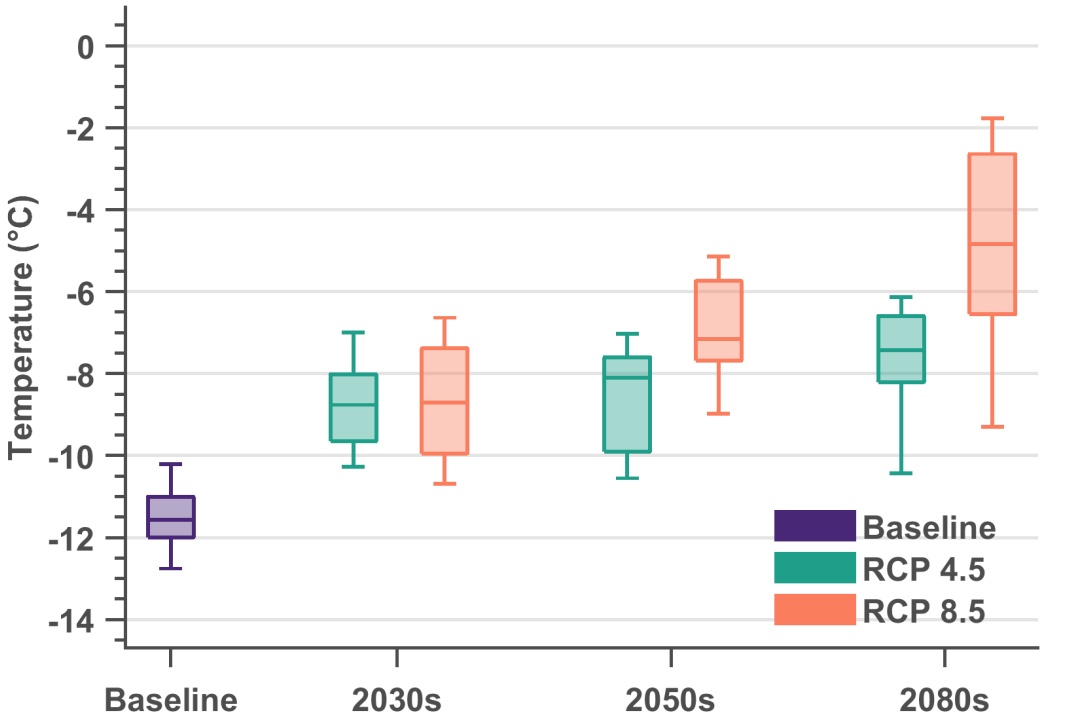


Figure F1.66: Coldest Monthly Temperature - November.

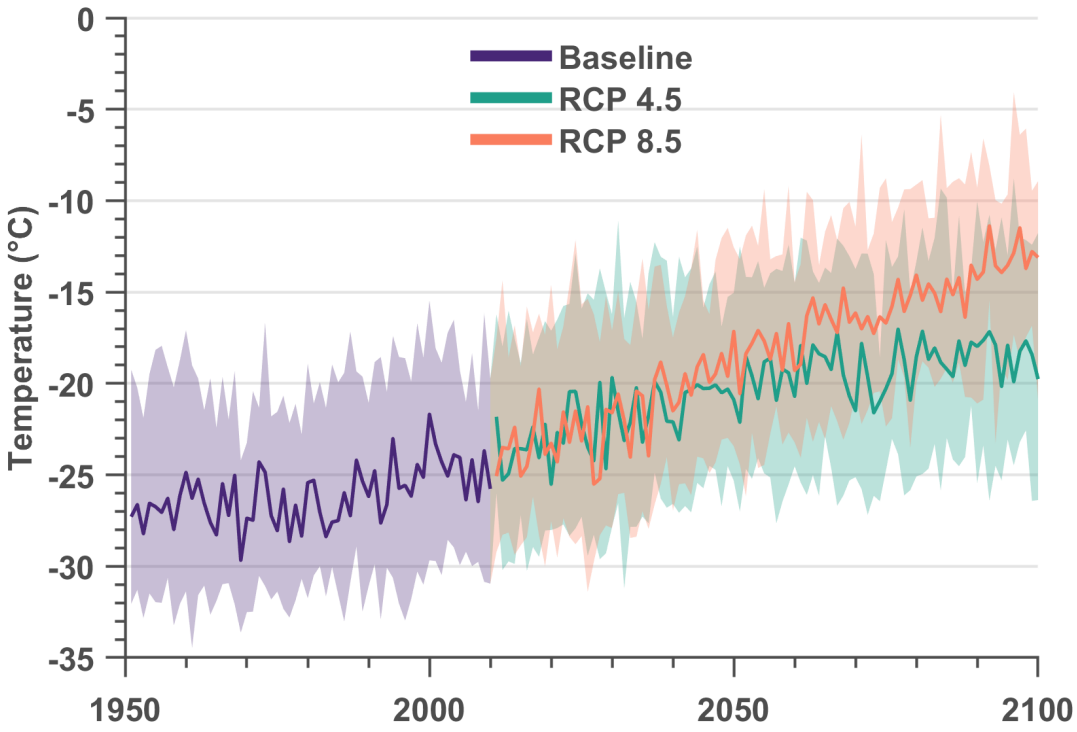


Figure F1.67: Coldest Monthly Temperature - December.

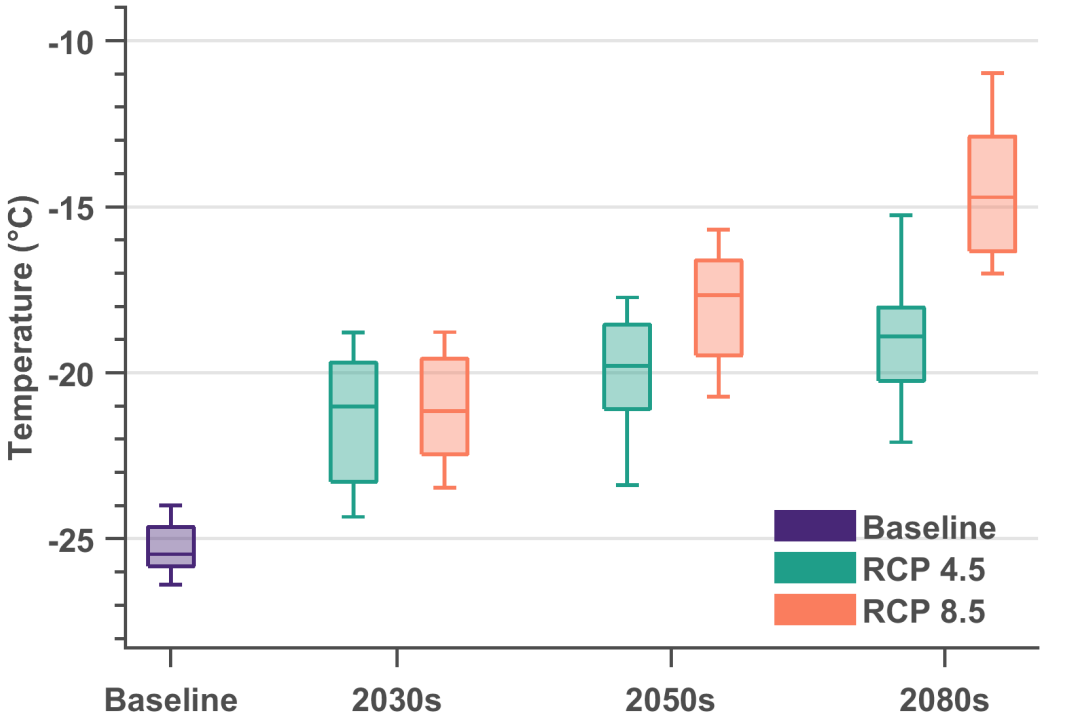


Figure F1.68: Coldest Monthly Temperature - December.

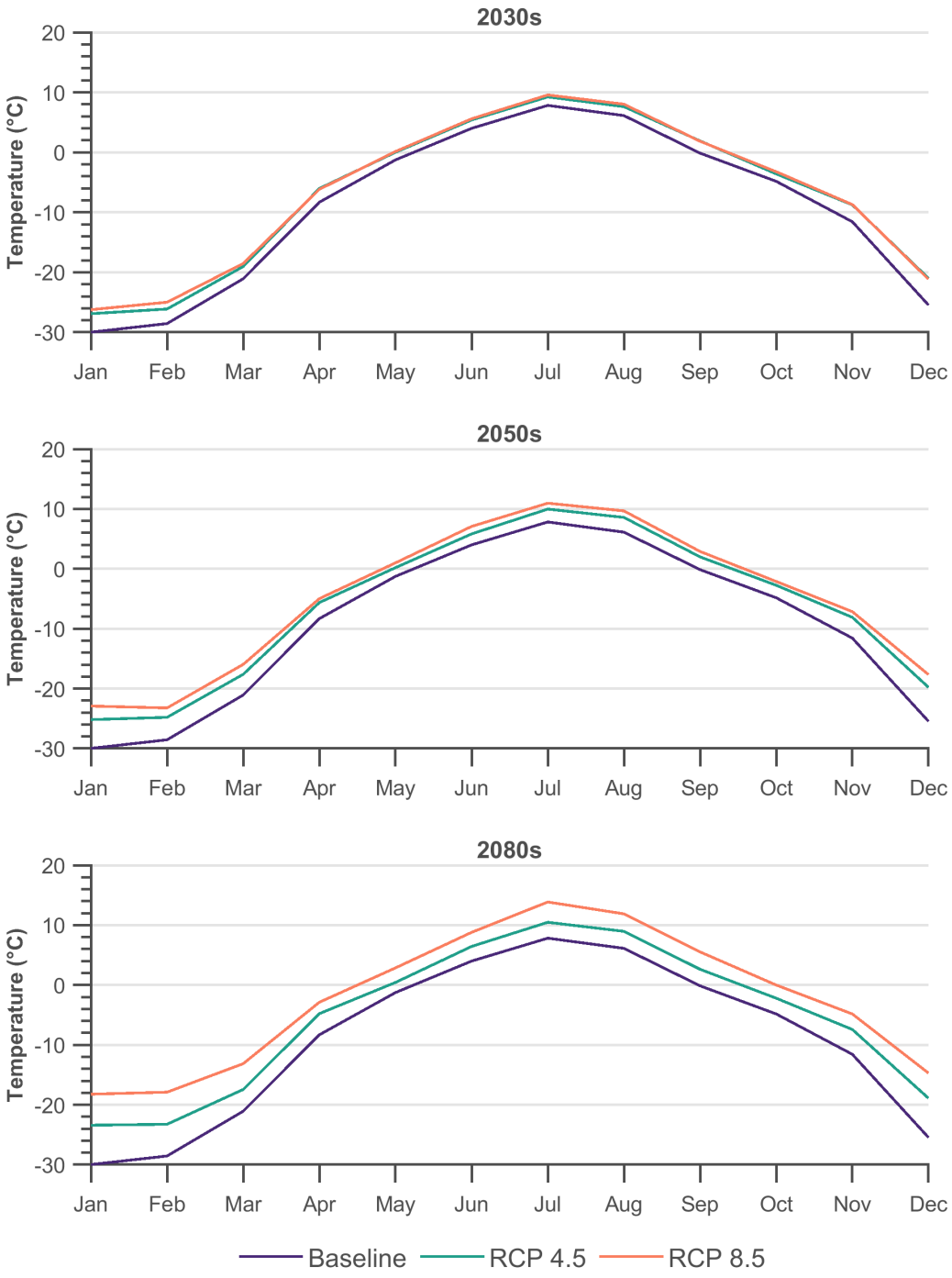


Figure F1.69: Coldest Monthly Temperature.

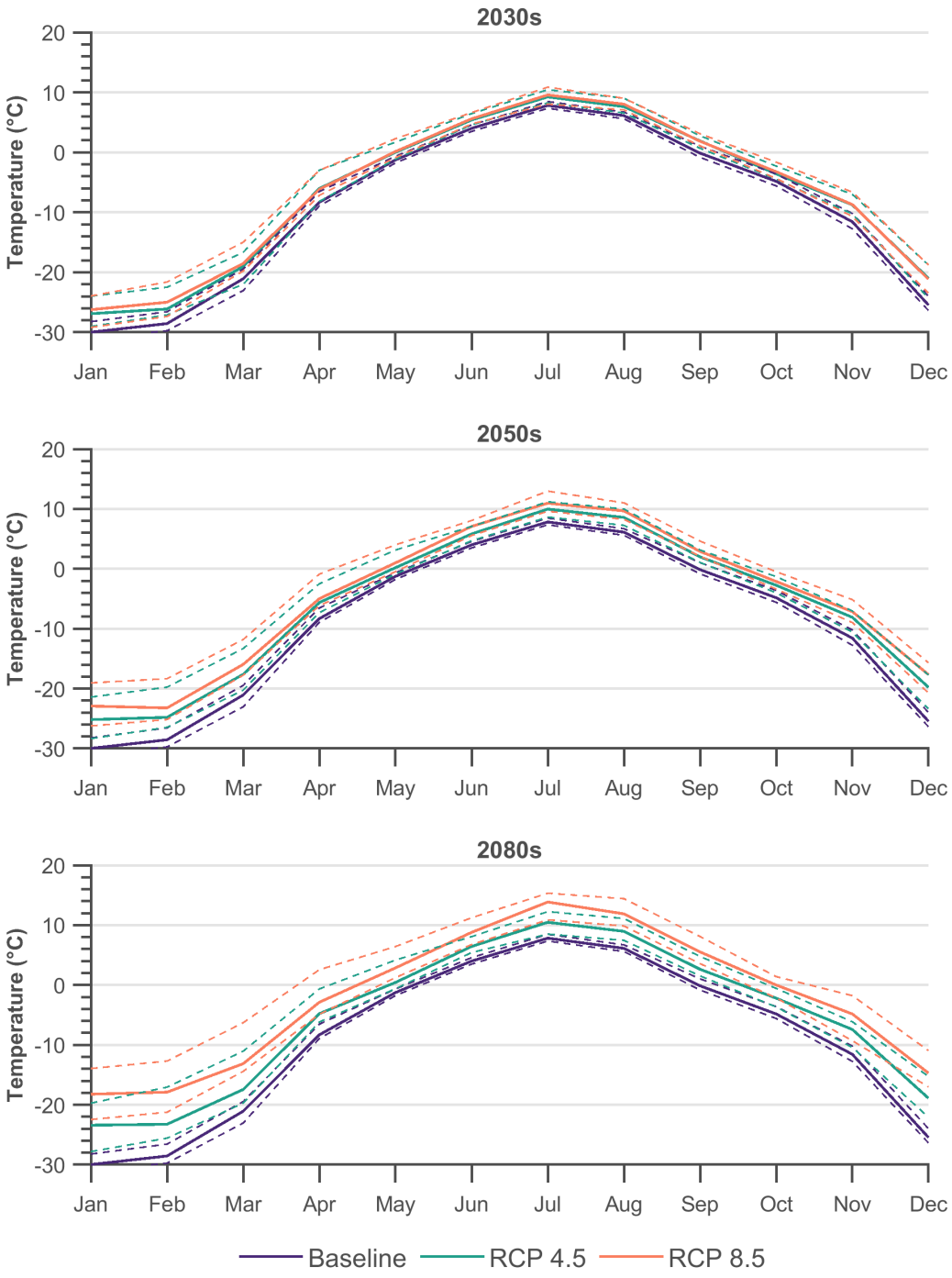


Figure F1.70: Coldest Monthly Temperature. Dashed lines indicate the 10% and 90% percentile.

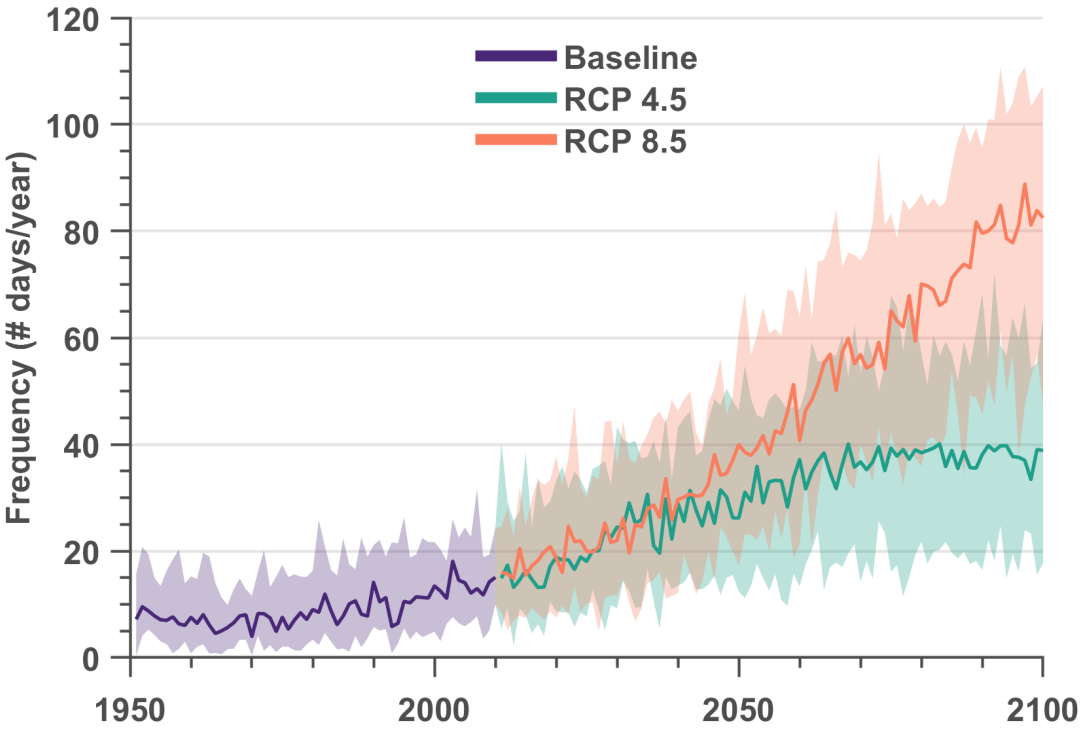


Figure F1.71: Number of Hot Days (Daily Max. Temperature > 30°C).

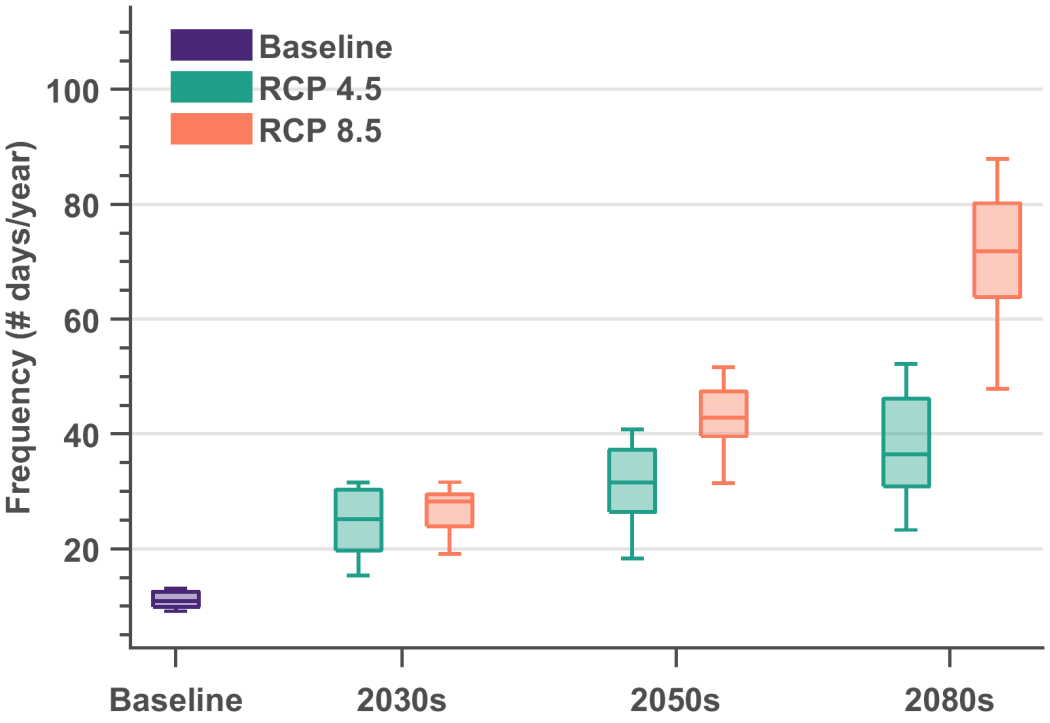


Figure F1.72: Number of Hot Days (Daily Max. Temperature > 30°C).

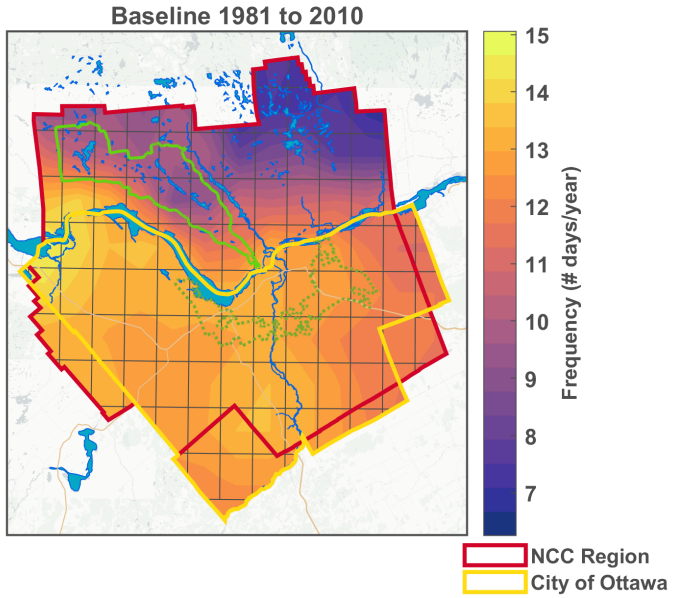


Figure F1.73: Number of Hot Days (Daily Max. Temperature > 30°C) - Baseline.

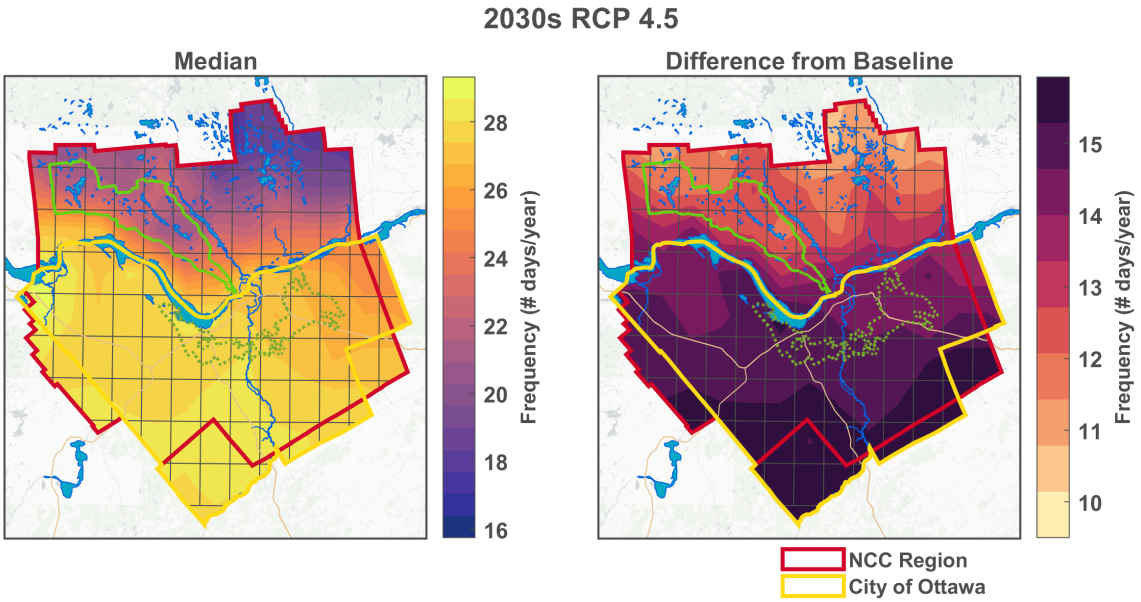


Figure F1.74: Number of Hot Days (Daily Max. Temperature > 30°C) - 2030s RCP 4.5.

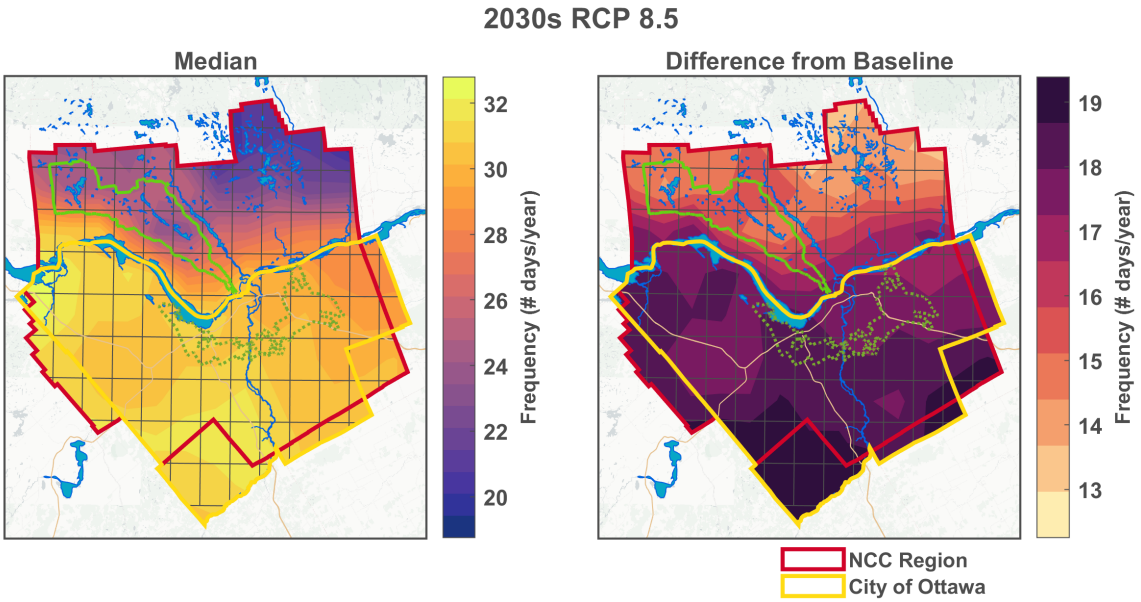


Figure F1.75: Number of Hot Days (Daily Max. Temperature > 30°C) - 2030s RCP 8.5.

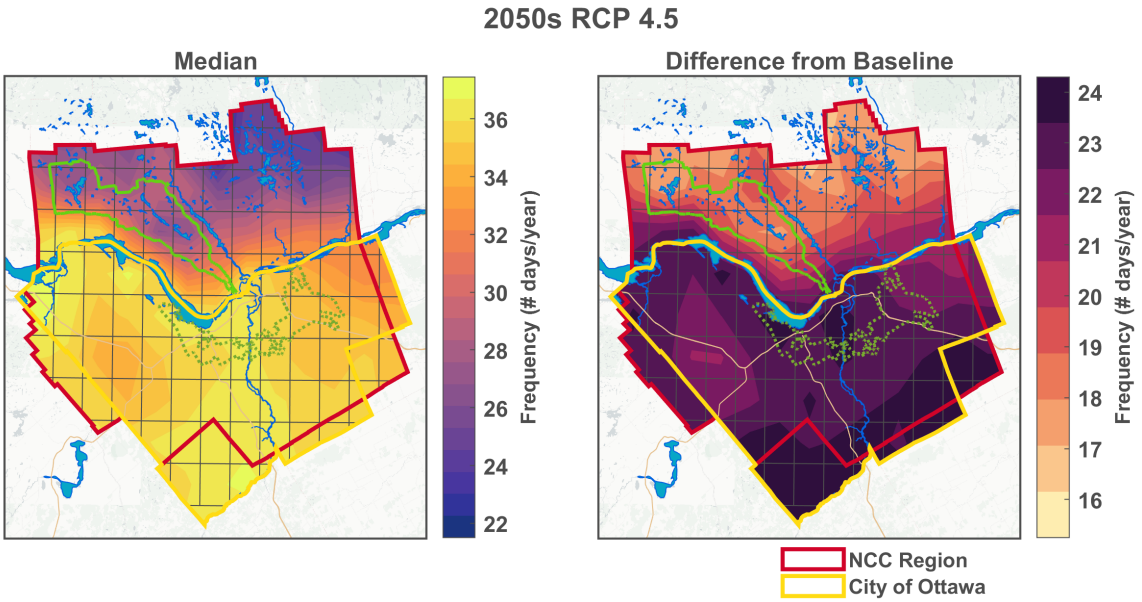


Figure F1.76: Number of Hot Days (Daily Max. Temperature > 30°C) - 2050s RCP 4.5.

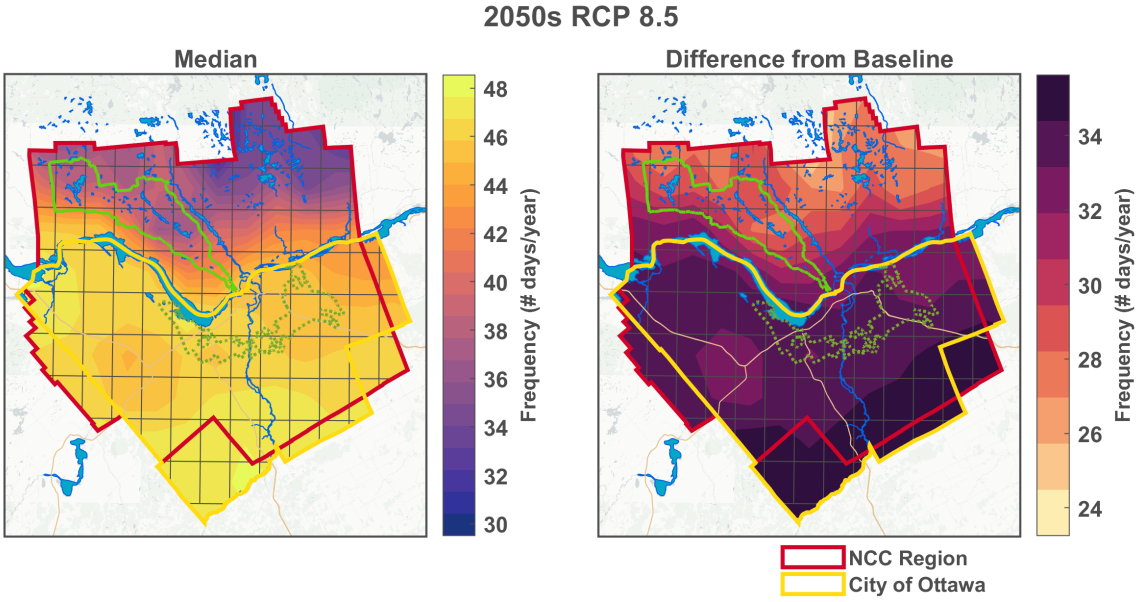


Figure F1.77: Number of Hot Days (Daily Max. Temperature > 30°C) - 2050s RCP 8.5.

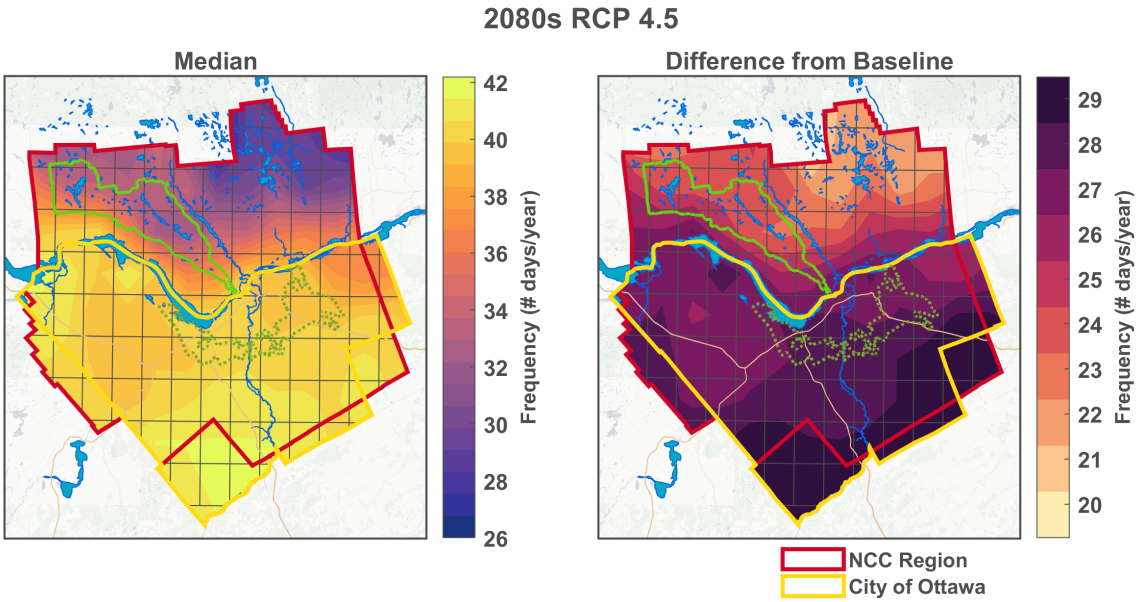


Figure F1.78: Number of Hot Days (Daily Max. Temperature > 30°C) - 2080s RCP 4.5.

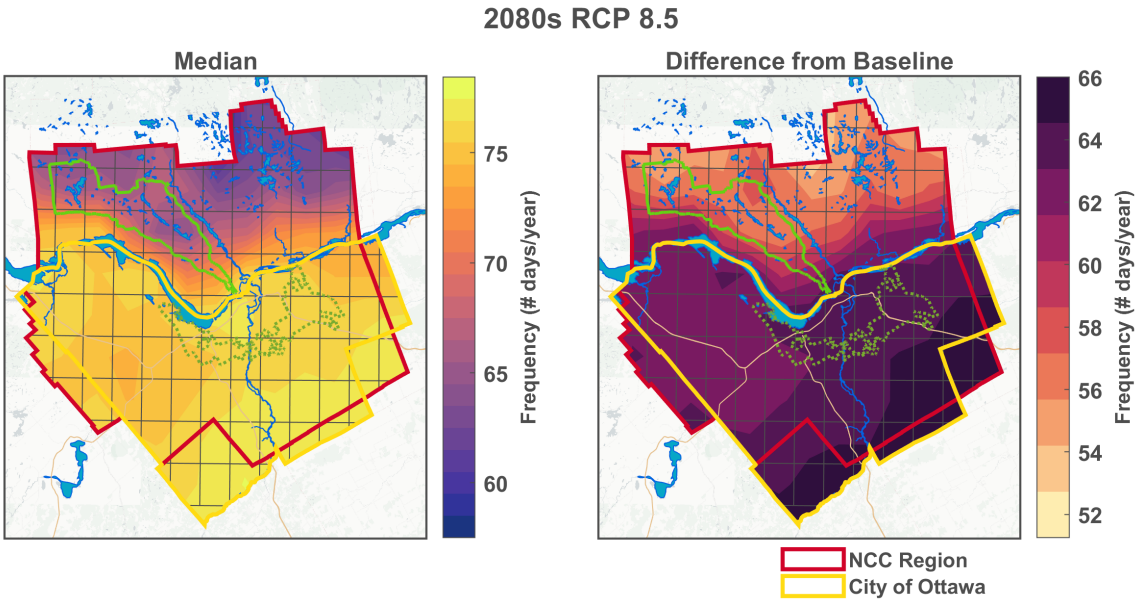


Figure F1.79: Number of Hot Days (Daily Max. Temperature > 30°C) - 2080s RCP 8.5.

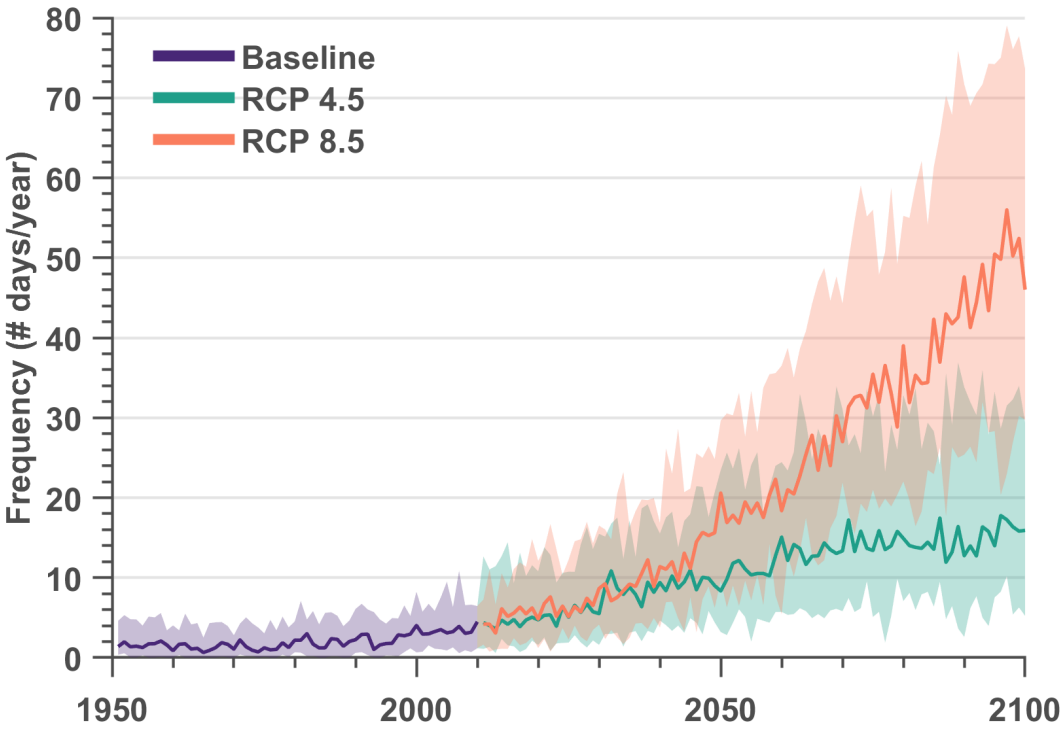


Figure F1.80: Number of Tropical Nights (Daily. Min Temperature > 20°C).

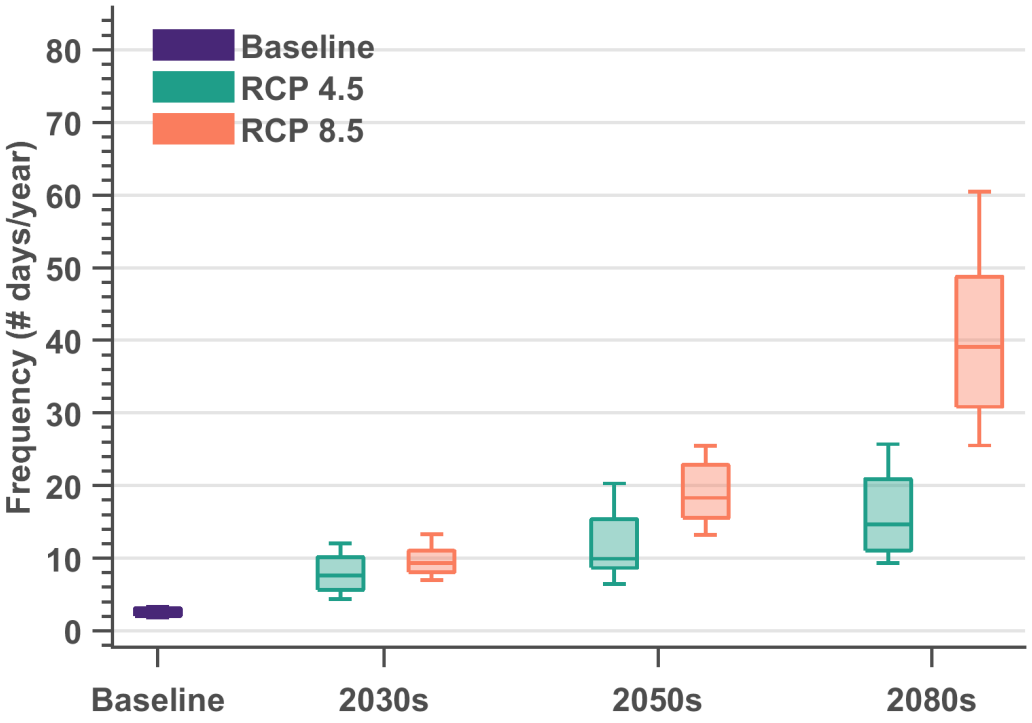


Figure F1.81: Number of Tropical Nights (Daily. Min Temperature > 20°C).

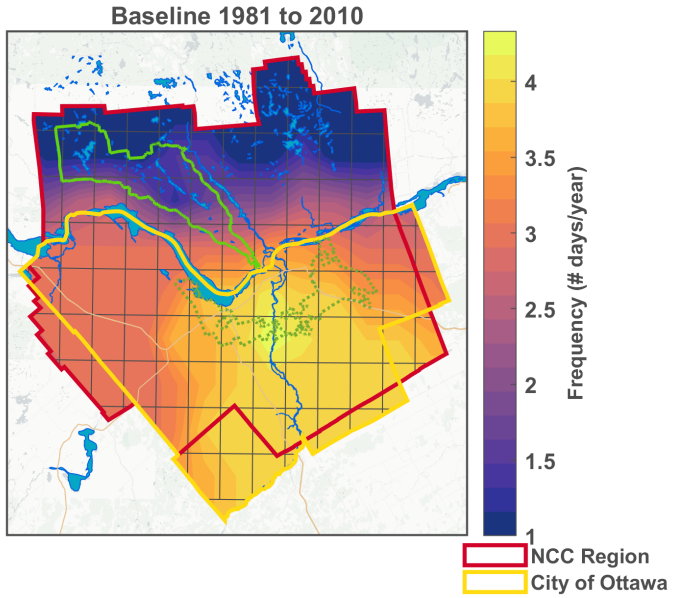


Figure F1.82: Number of Tropical Nights (Daily. Min Temperature > 20ºC) - Baseline.

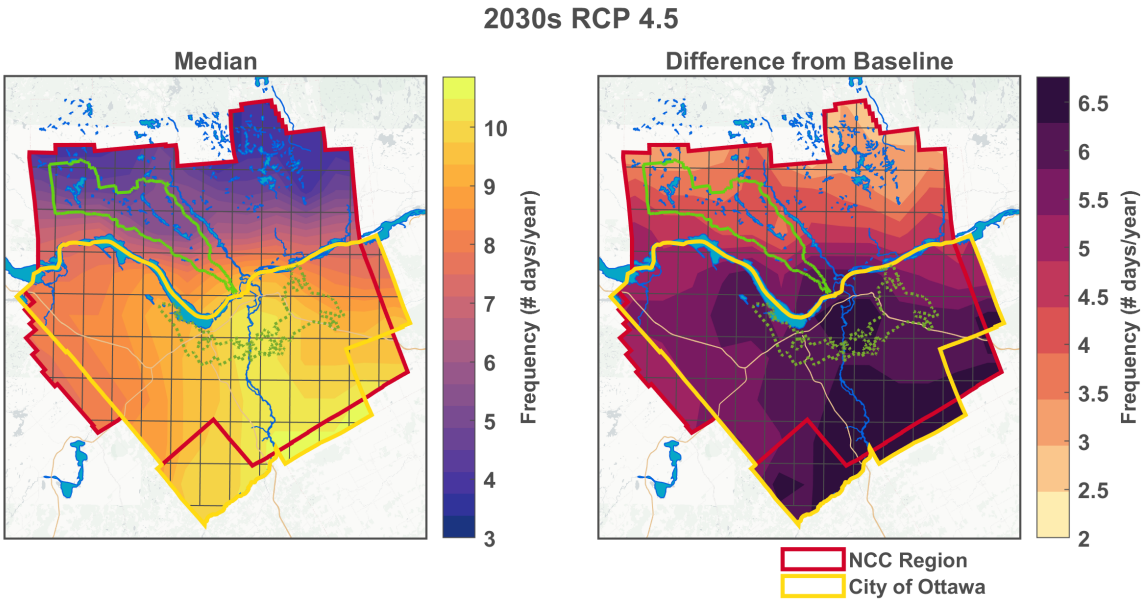


Figure F1.83: Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2030s RCP 4.5.

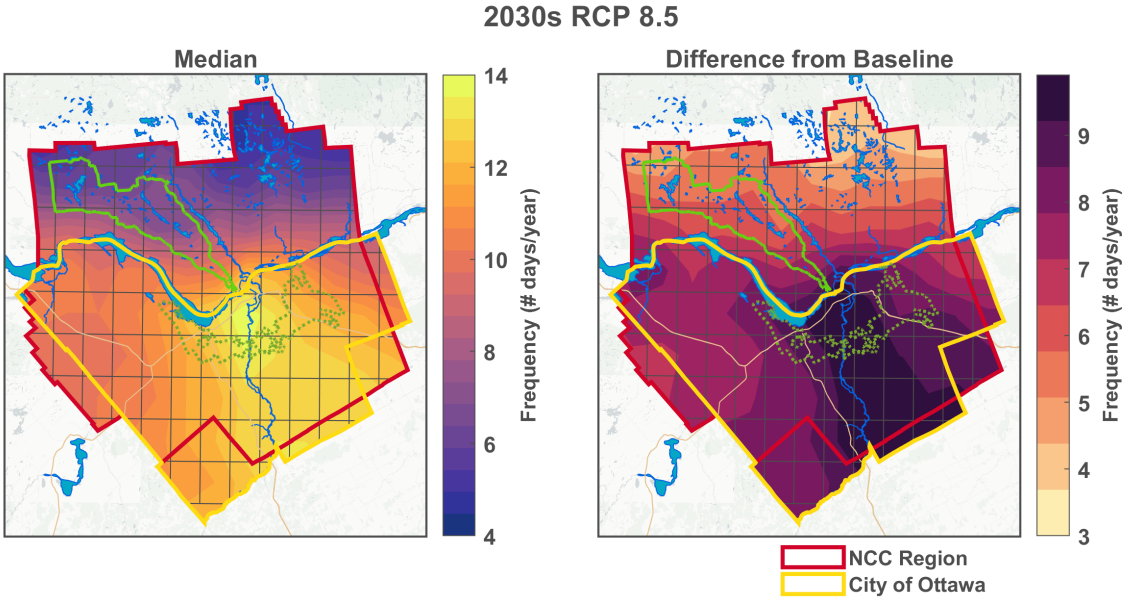


Figure F1.84: Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2030s RCP 8.5.

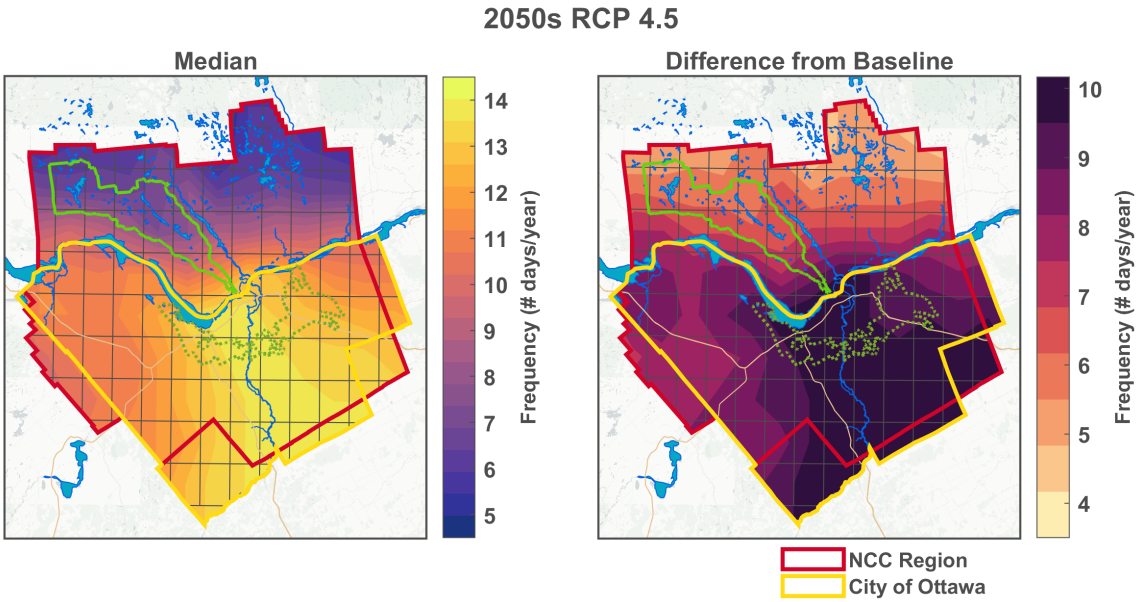


Figure F1.85: Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2050s RCP 4.5.

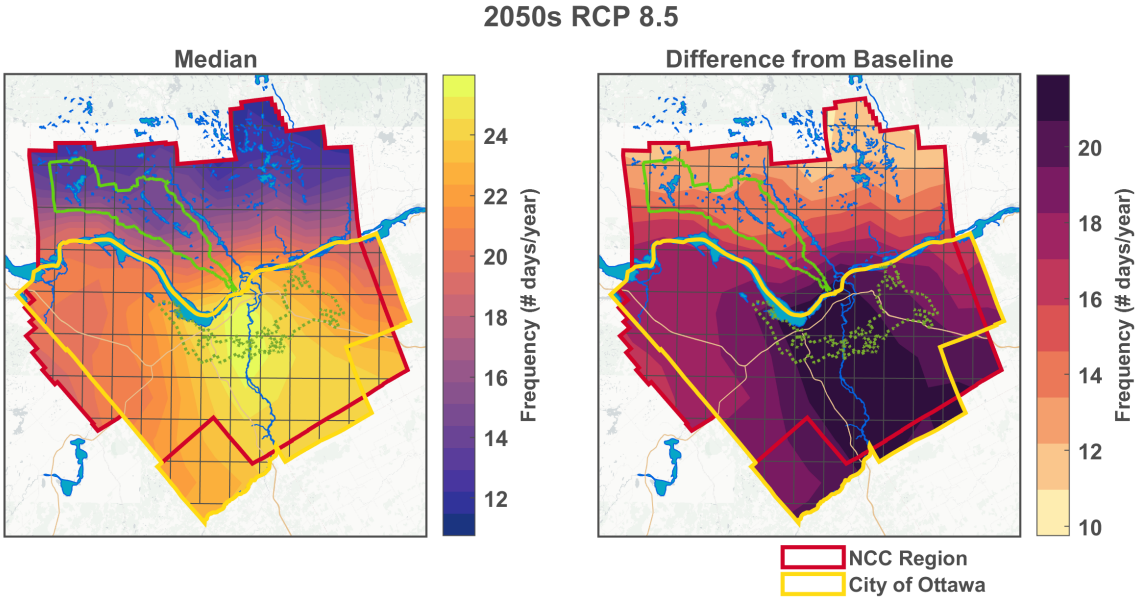


Figure F1.86: Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2050s RCP 8.5.

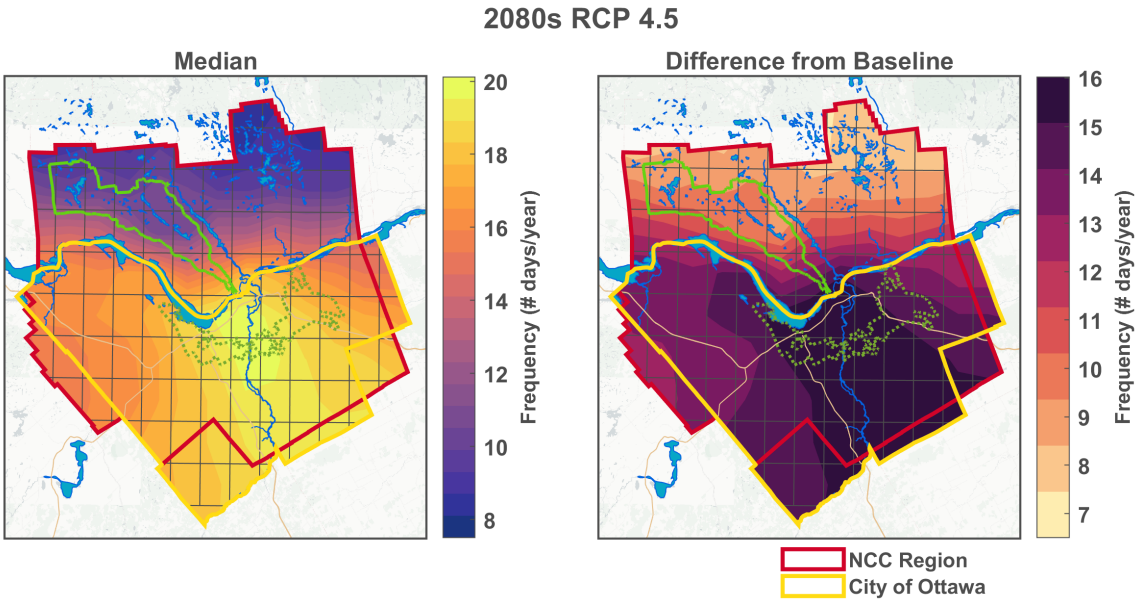


Figure F1.87: Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2080s RCP 4.5.

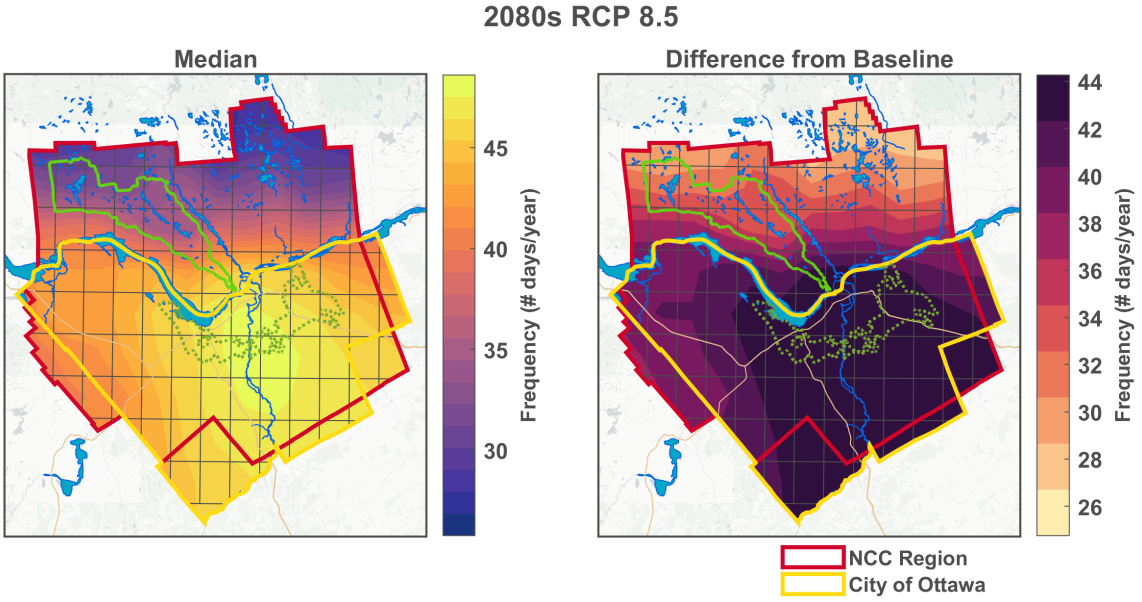


Figure F1.88: Number of Tropical Nights (Daily. Min Temperature > 20^{o}C) - 2080s RCP 8.5.

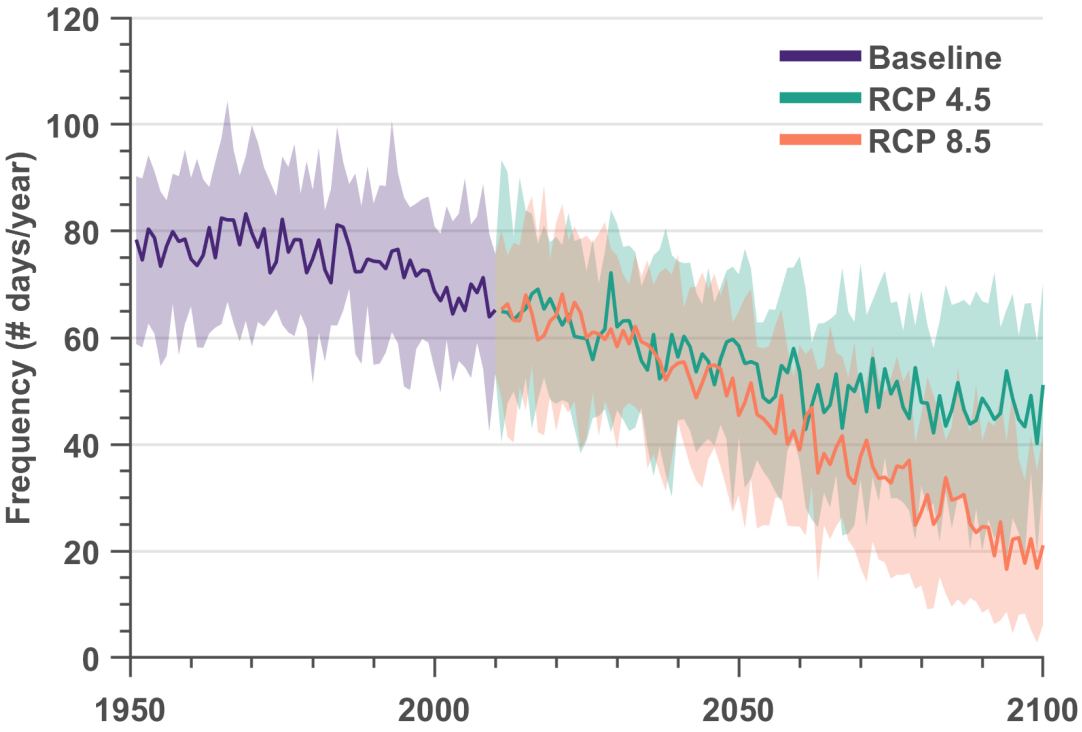


Figure F1.89: Number of Deep Freeze Events (Daily Min. Temperature < -10°C).

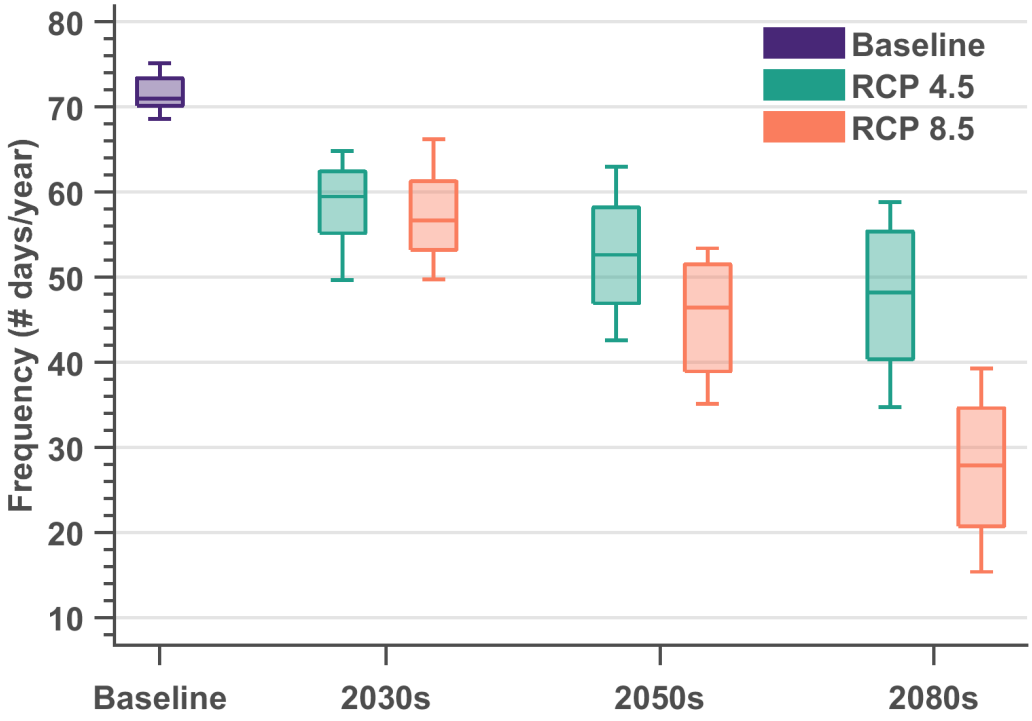


Figure F1.90: Number of Deep Freeze Events (Daily Min. Temperature < -10°C).

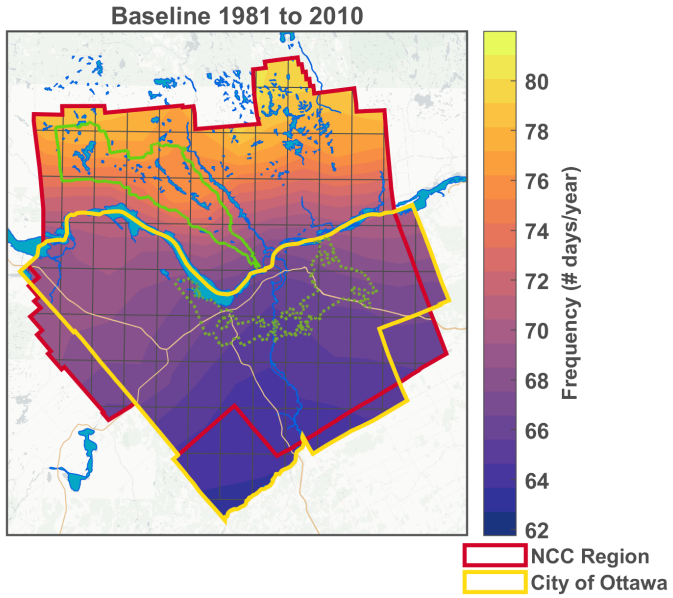


Figure F1.91: Number of Deep Freeze Events (Daily Min. Temperature < -10°C) - Baseline.

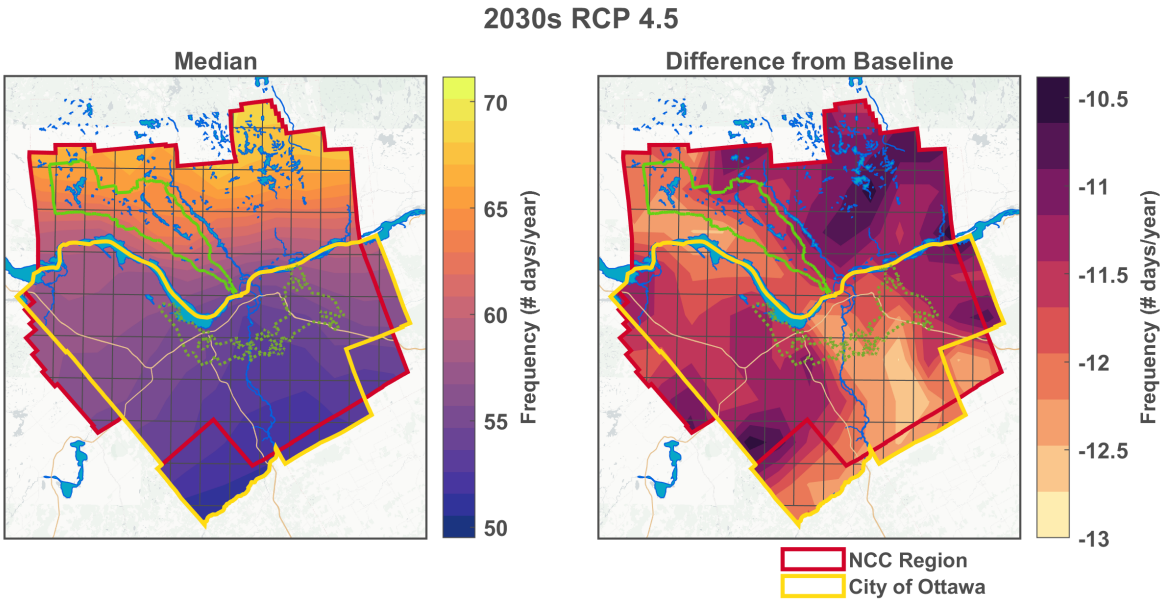


Figure F1.92: Number of Deep Freeze Events (Daily Min. Temperature < -10°C) - 2030s RCP 4.5.

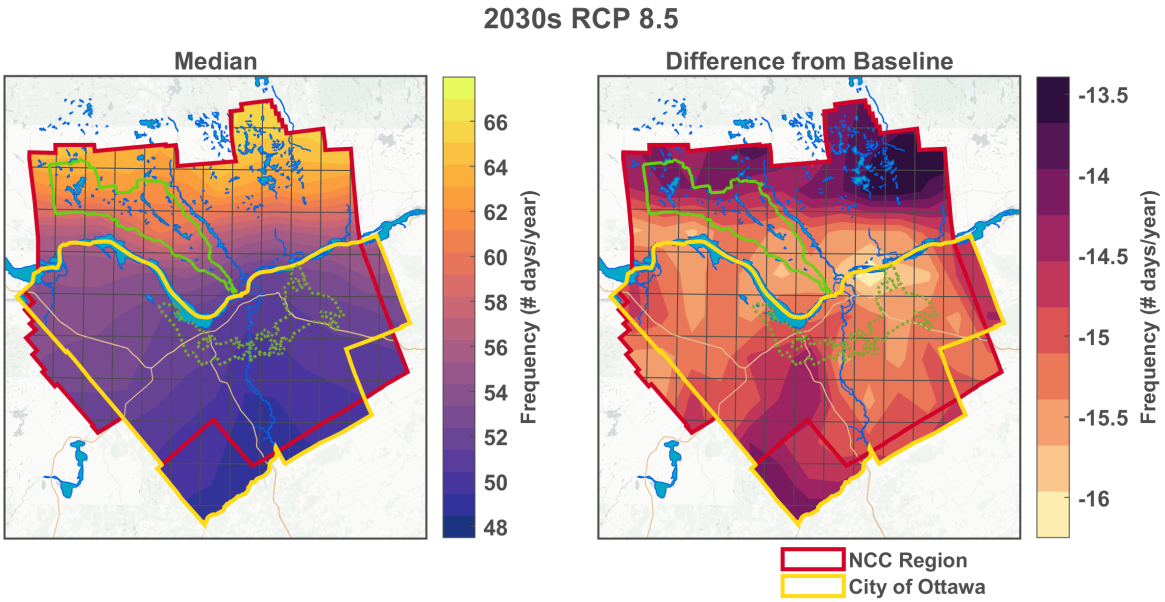


Figure F1.93: Number of Deep Freeze Events (Daily Min. Temperature < -10°C) - 2030s RCP 8.5.

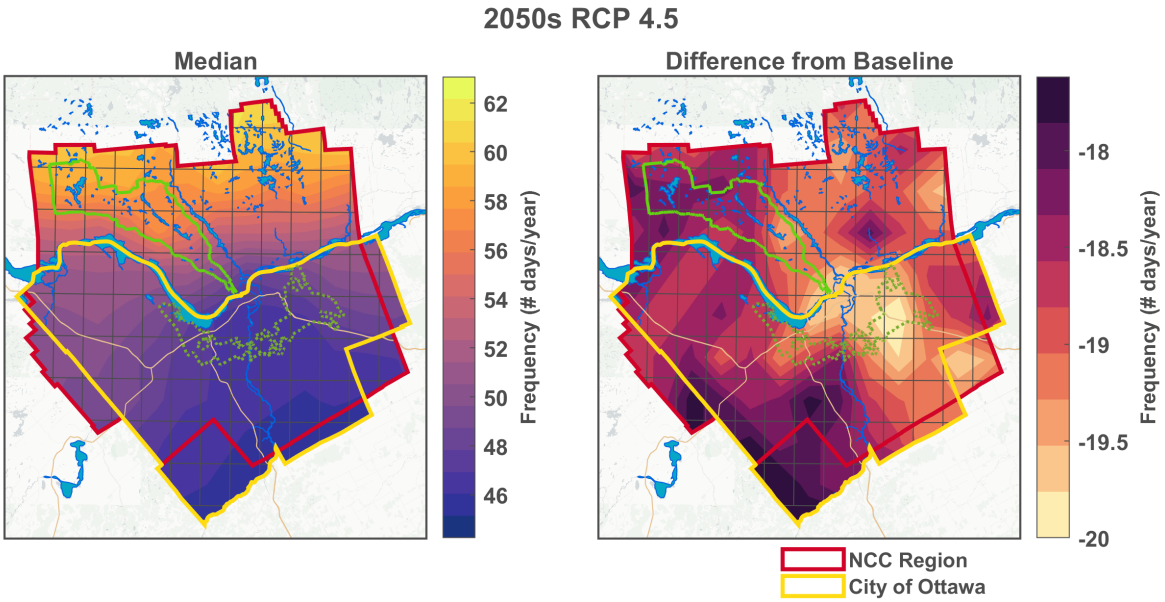


Figure F1.94: Number of Deep Freeze Events (Daily Min. Temperature < -10°C) - 2050s RCP 4.5.

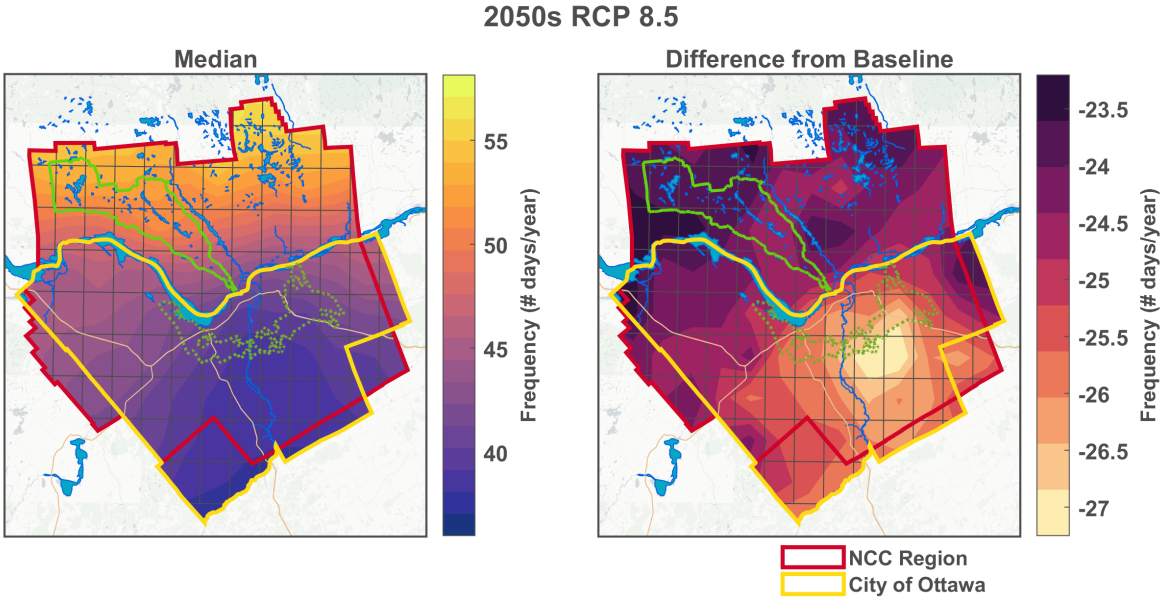


Figure F1.95: Number of Deep Freeze Events (Daily Min. Temperature < -10°C) - 2050s RCP 8.5.

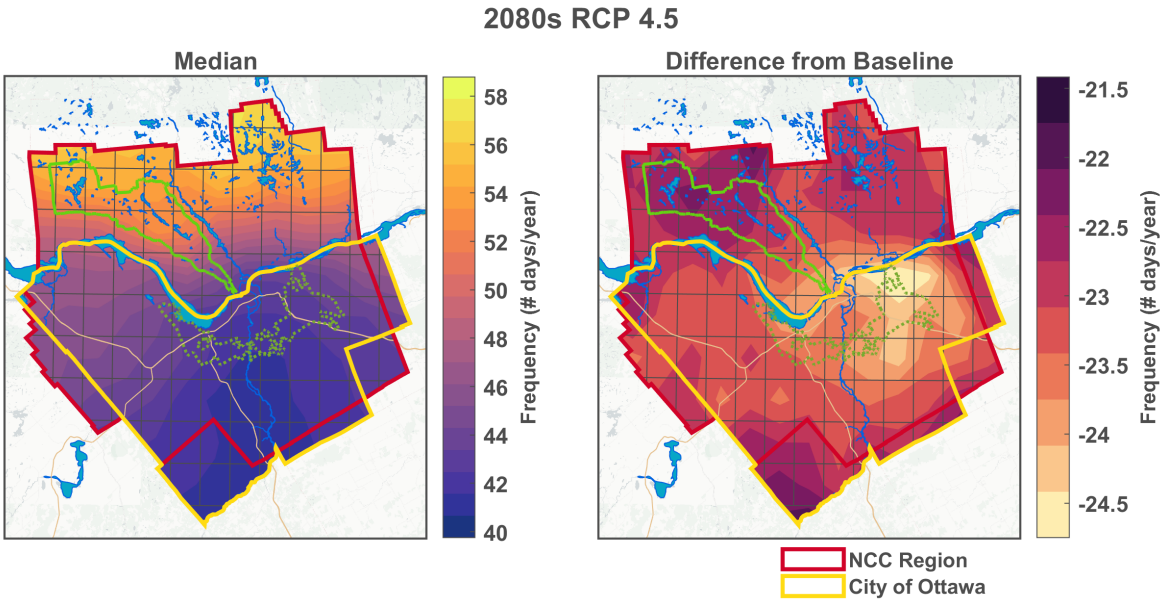


Figure F1.96: Number of Deep Freeze Events (Daily Min. Temperature < -10°C) - 2080s RCP 4.5.

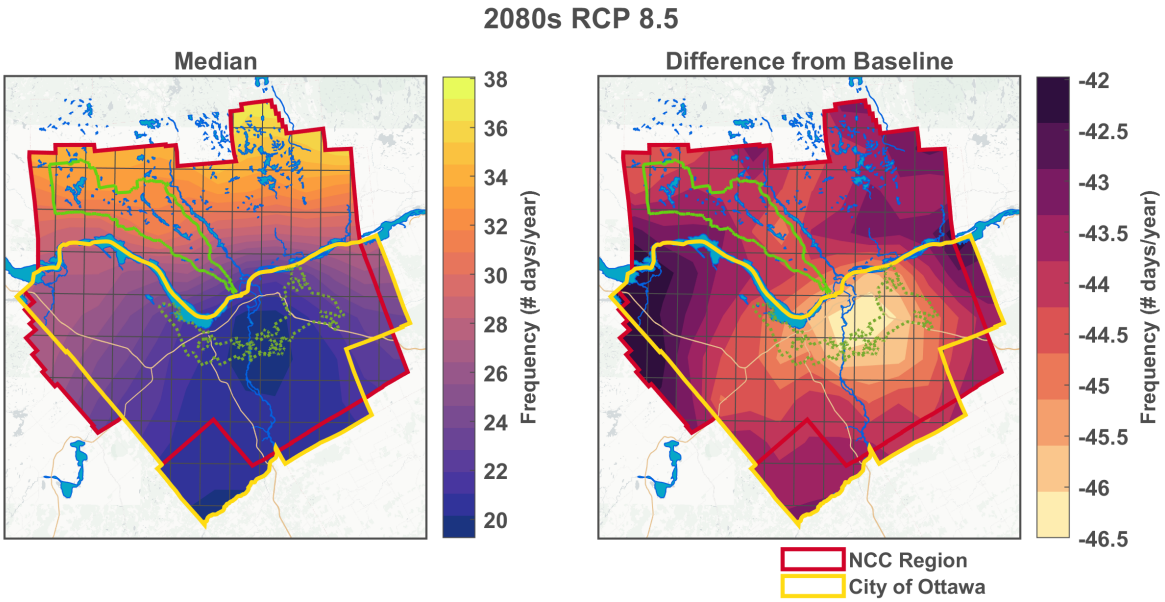


Figure F1.97: Number of Deep Freeze Events (Daily Min. Temperature < -10°C) - 2080s RCP 8.5.

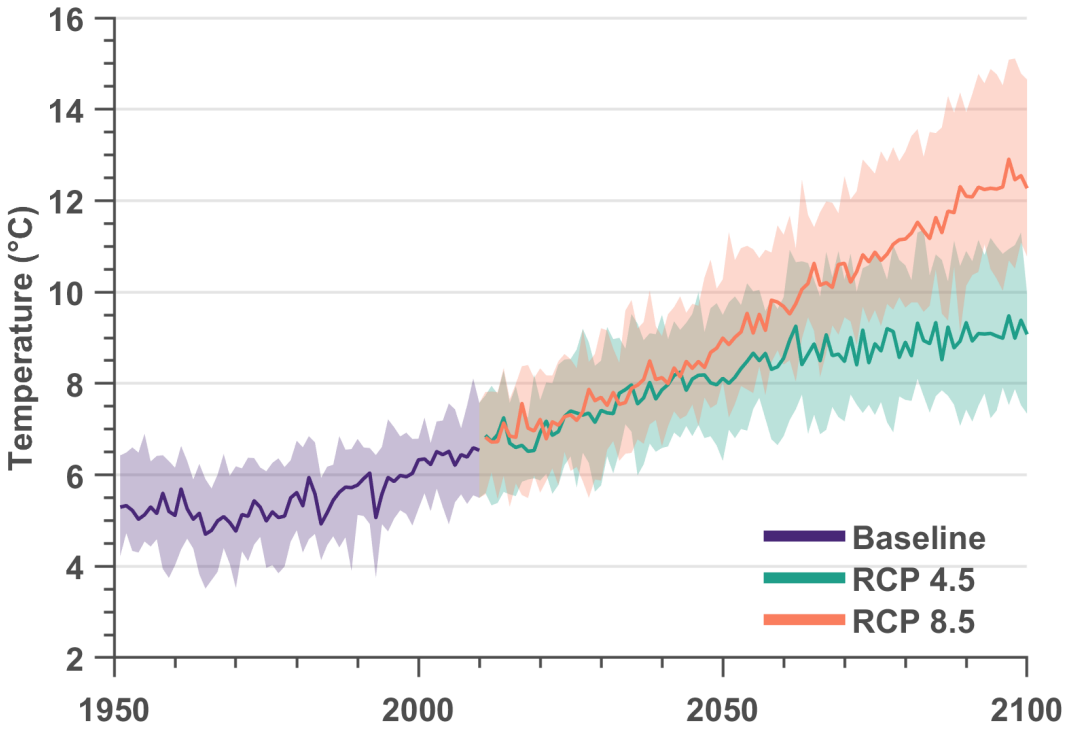


Figure F1.98: Annual Average Temperature.

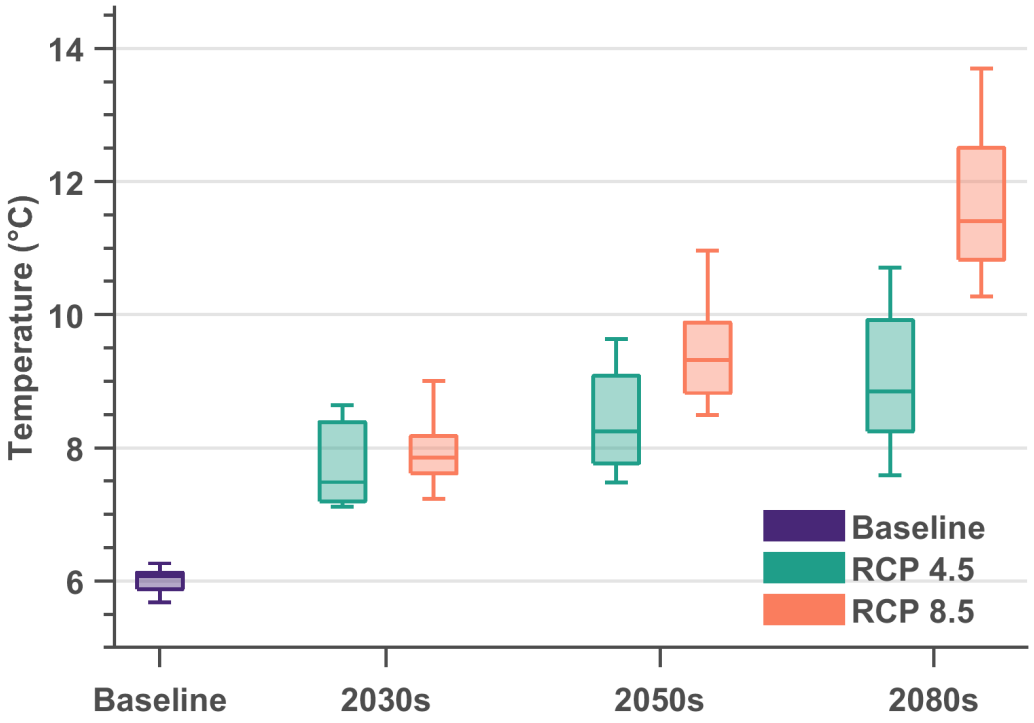


Figure F1.99: Annual Average Temperature.

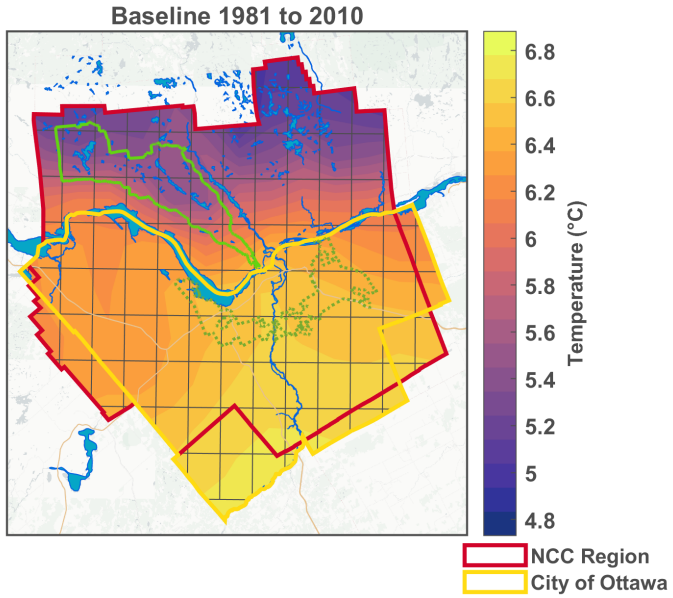


Figure F1.100: Annual Average Temperature - Baseline.

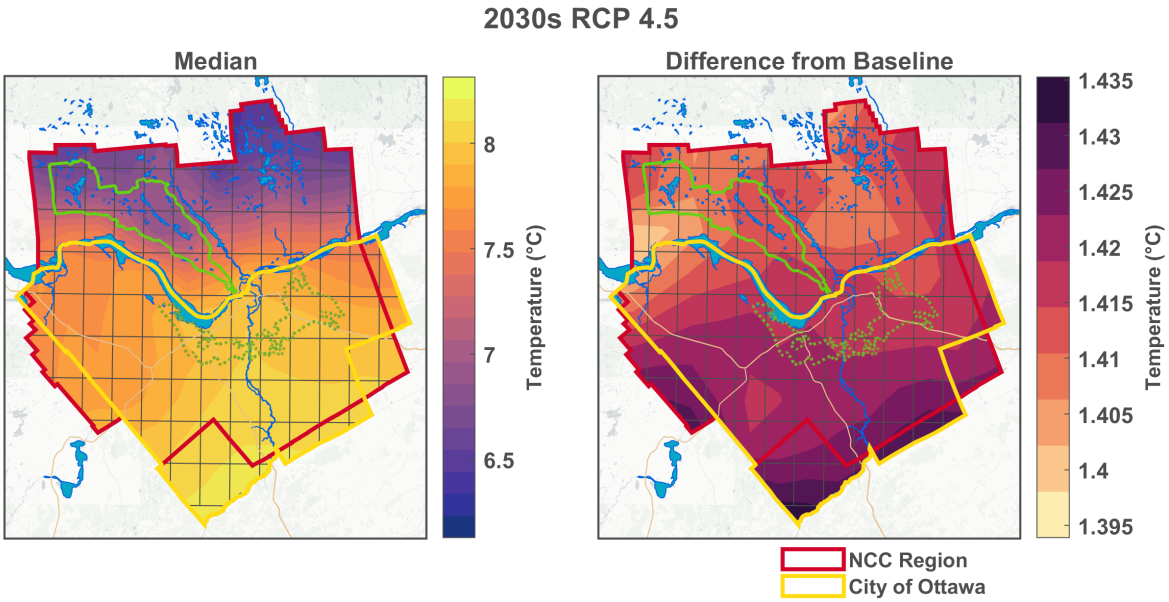


Figure F1.101: Annual Average Temperature - 2030s RCP 4.5.

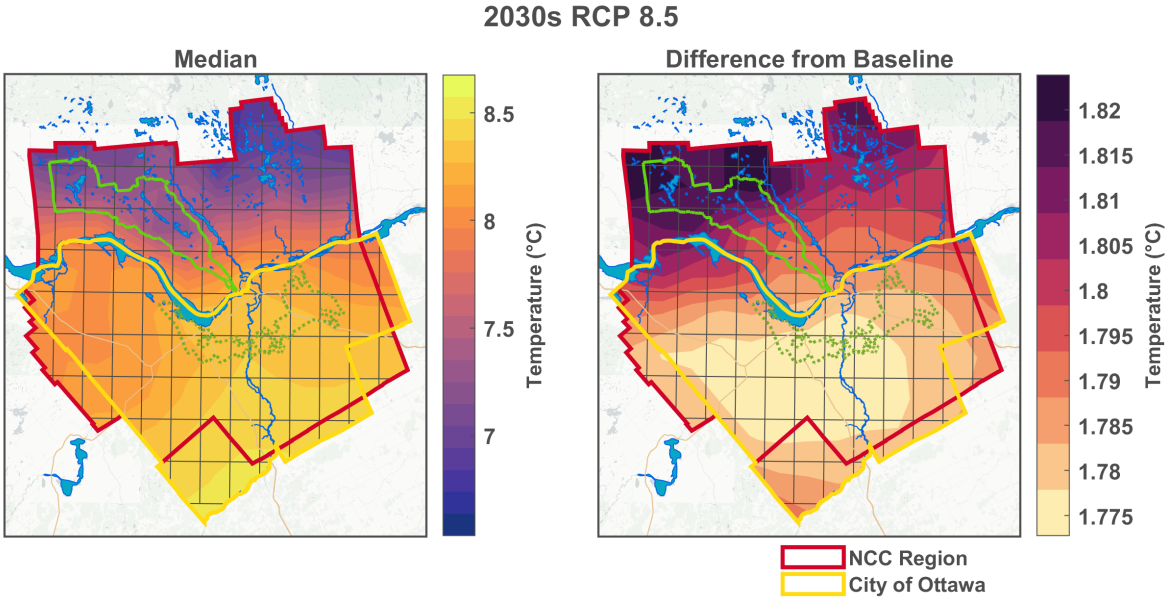


Figure F1.102: Annual Average Temperature - 2030s RCP 8.5.

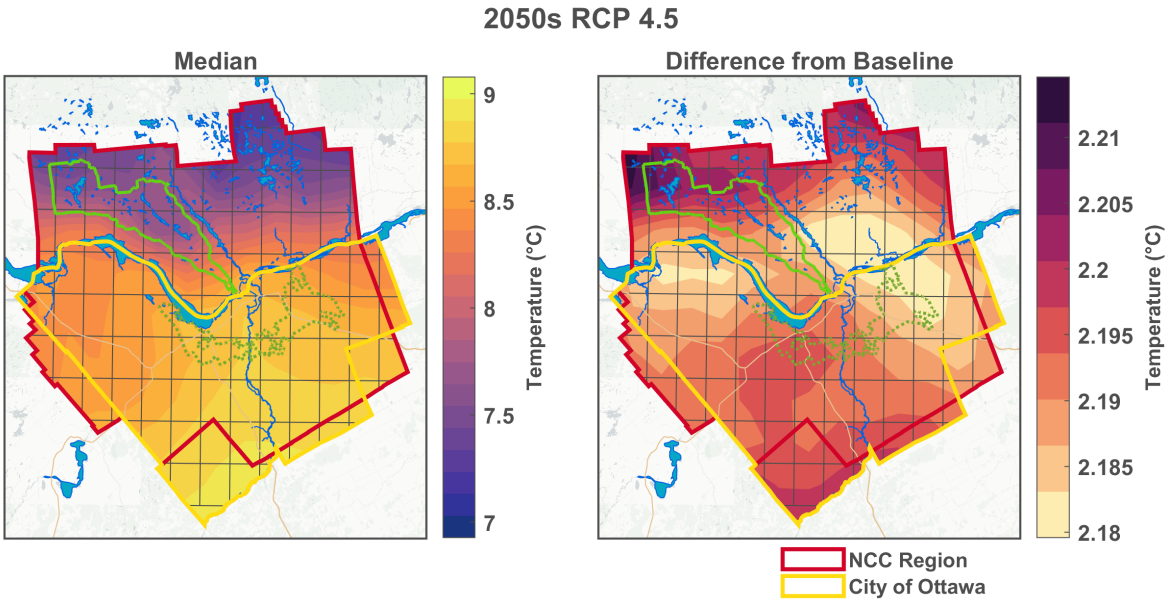


Figure F1.103: Annual Average Temperature - 2050s RCP 4.5.

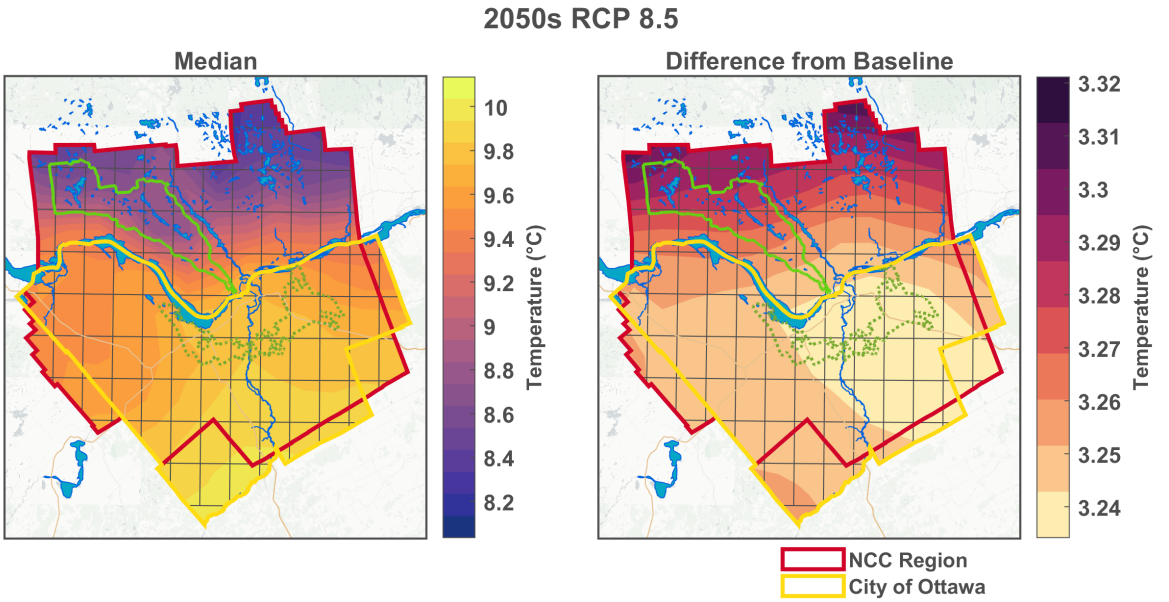


Figure F1.104: Annual Average Temperature - 2050s RCP 8.5.

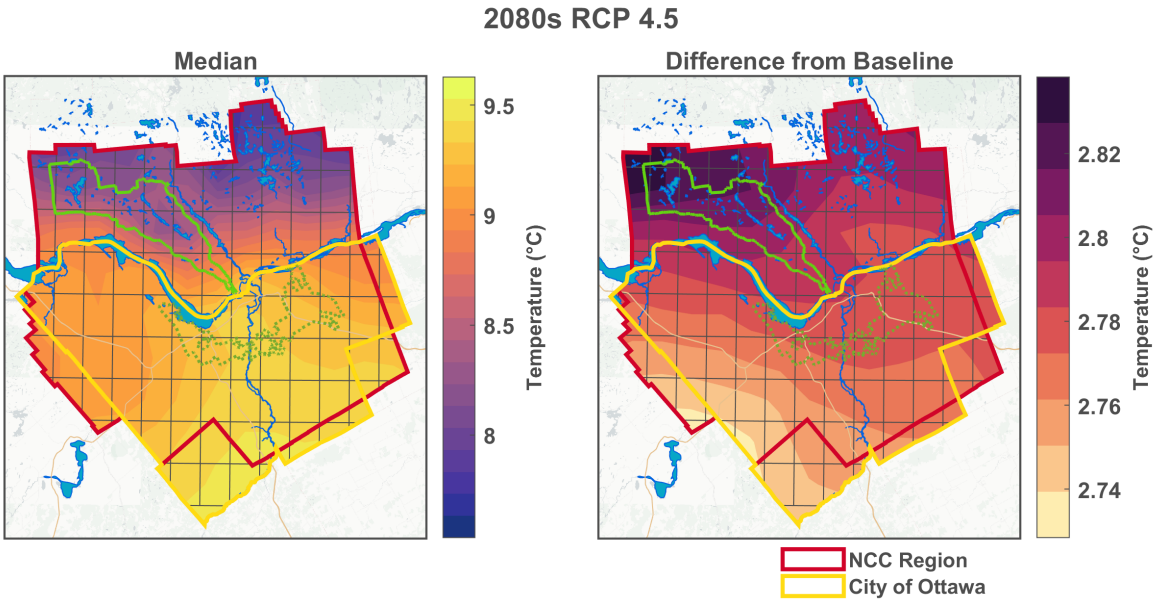


Figure F1.105: Annual Average Temperature - 2080s RCP 4.5.

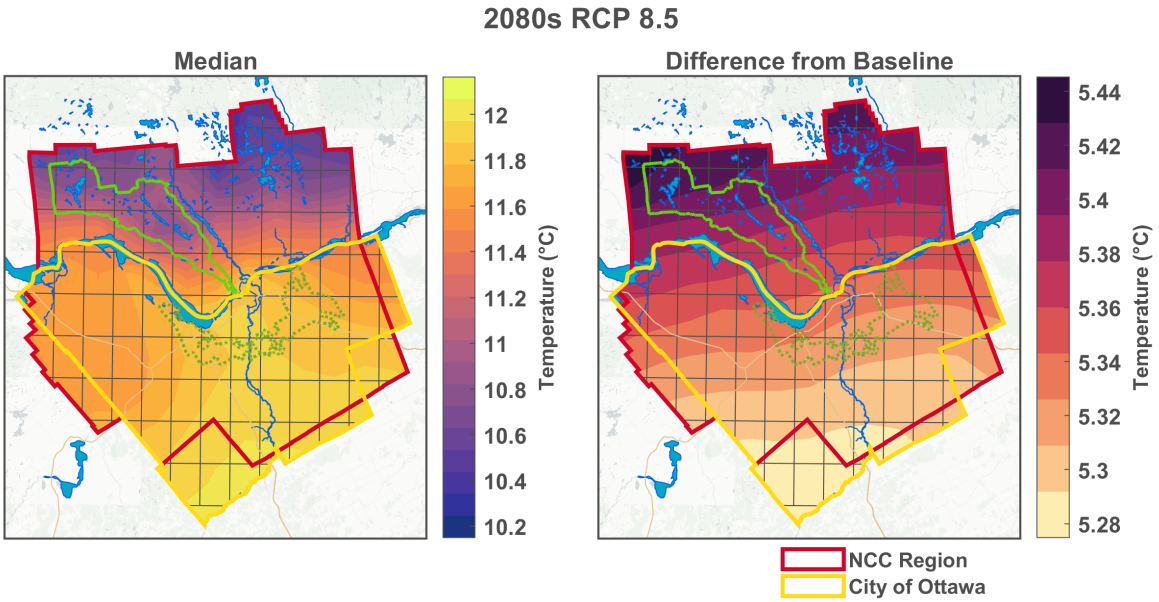


Figure F1.106: Annual Average Temperature - 2080s RCP 8.5.

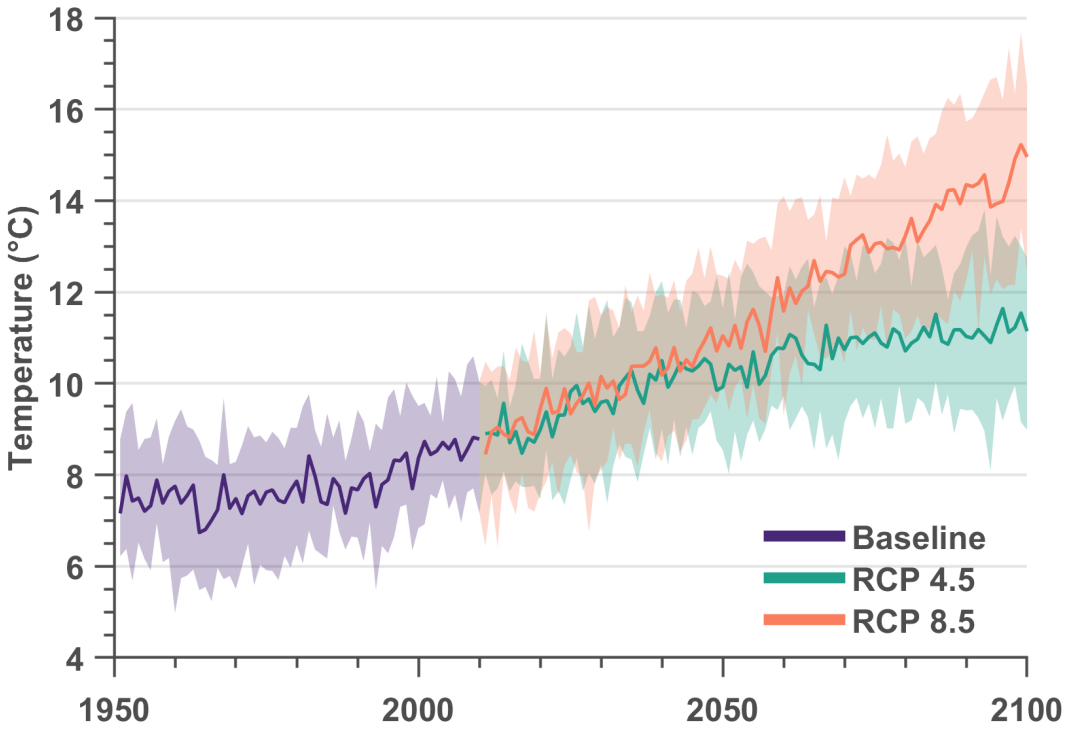


Figure F1.107: Seasonal Average Temperature - Fall.

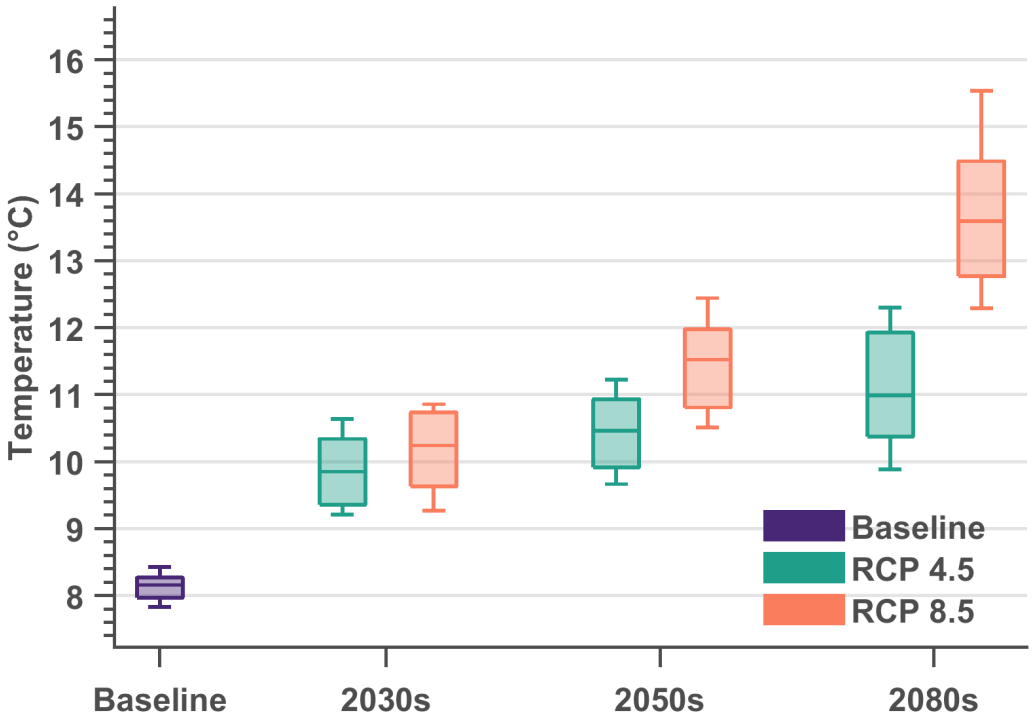


Figure F1.108: Seasonal Average Temperature - Fall.

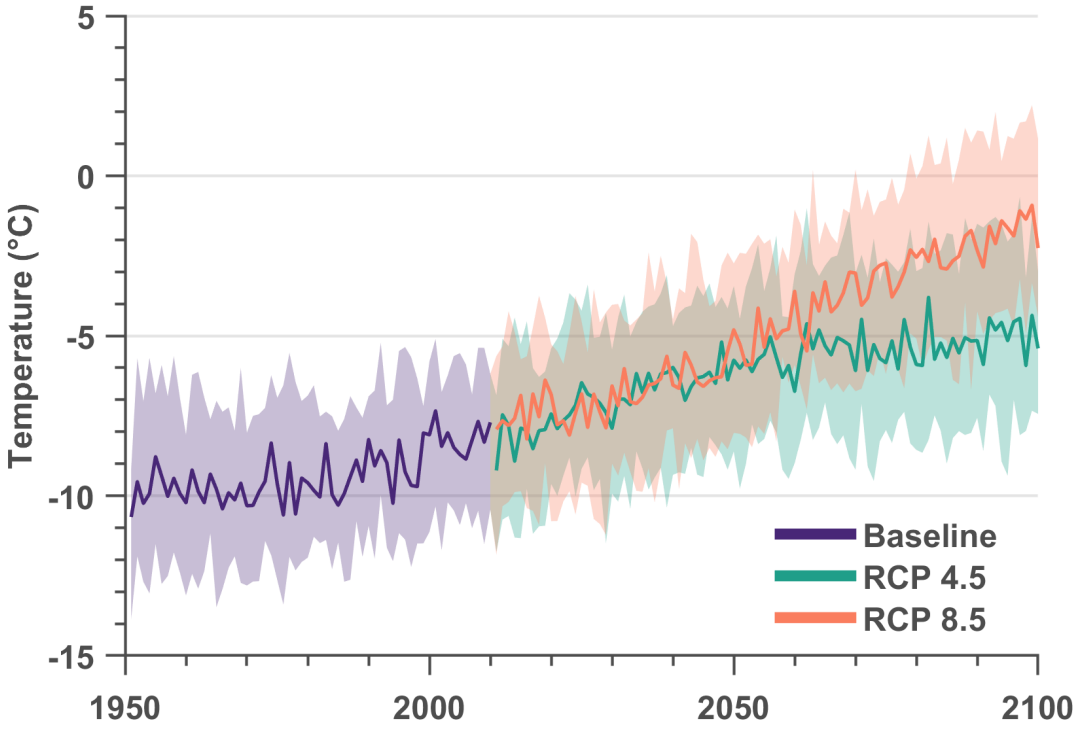


Figure F1.109: Seasonal Average Temperature - Winter.

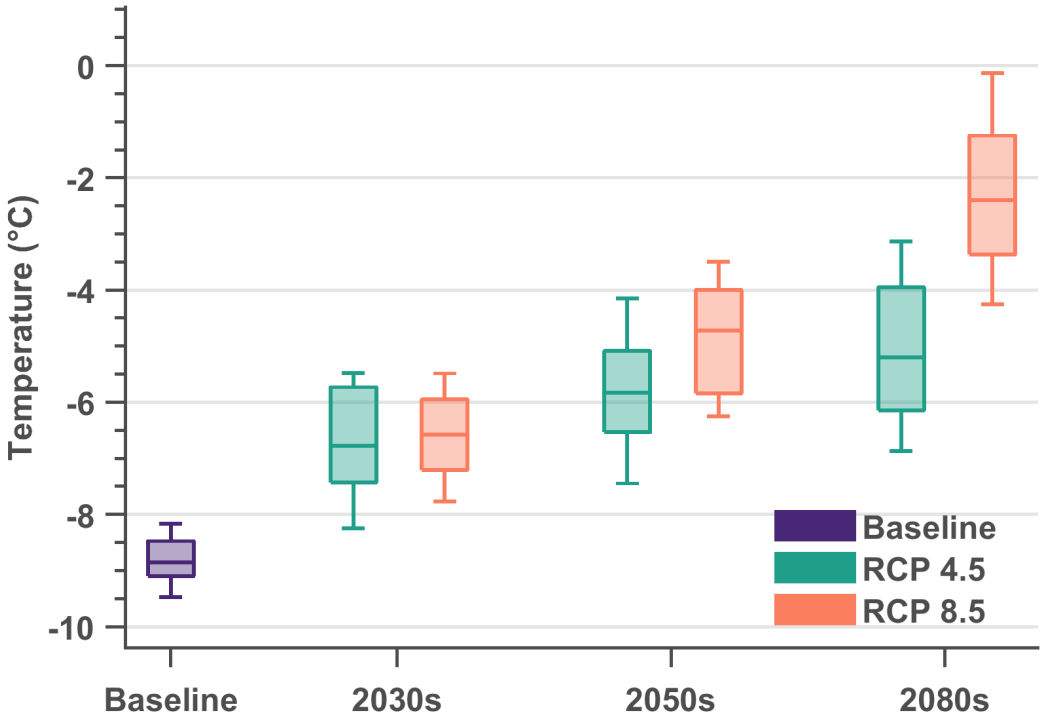


Figure F1.110: Seasonal Average Temperature - Winter.

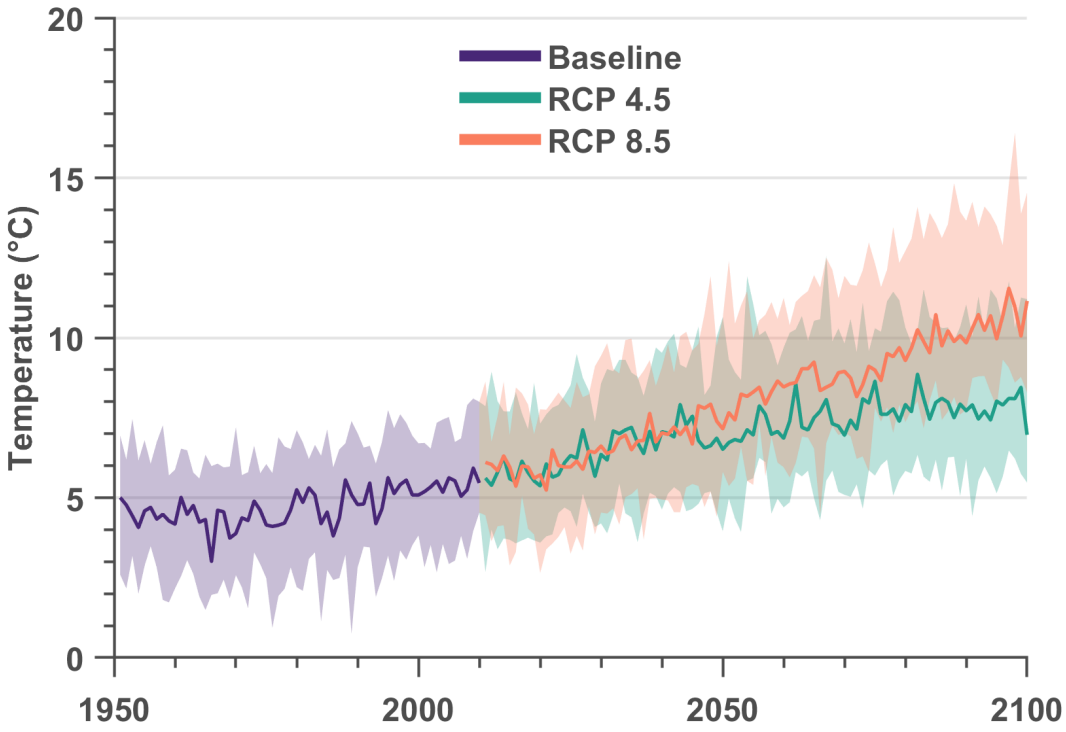


Figure F1.111: Seasonal Average Temperature - Spring.

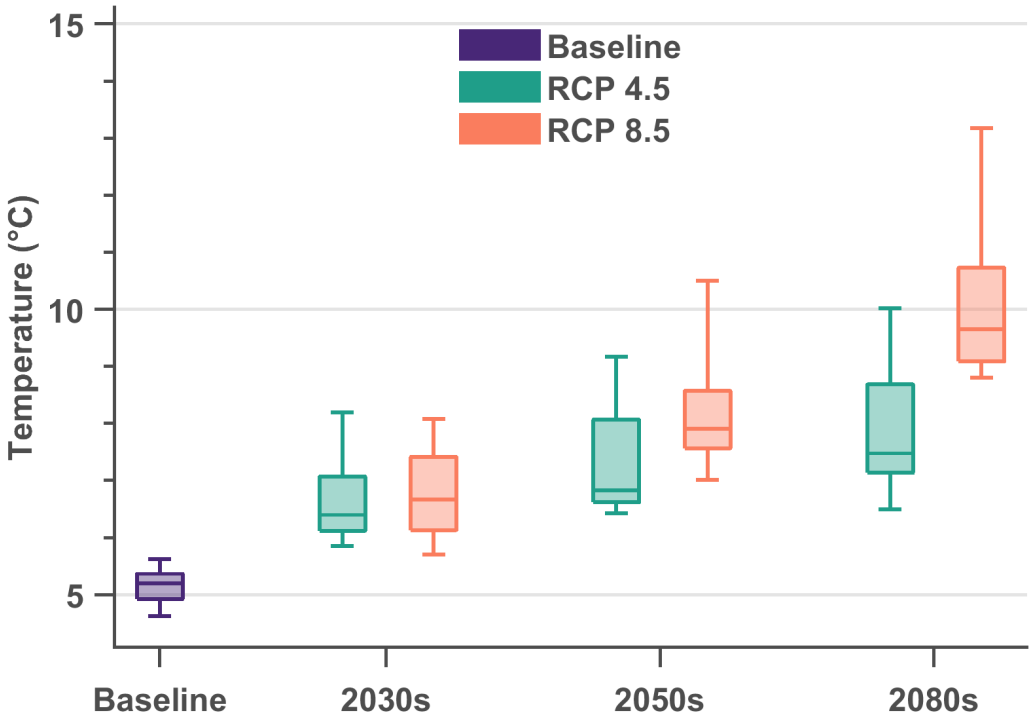


Figure F1.112: Seasonal Average Temperature - Spring.

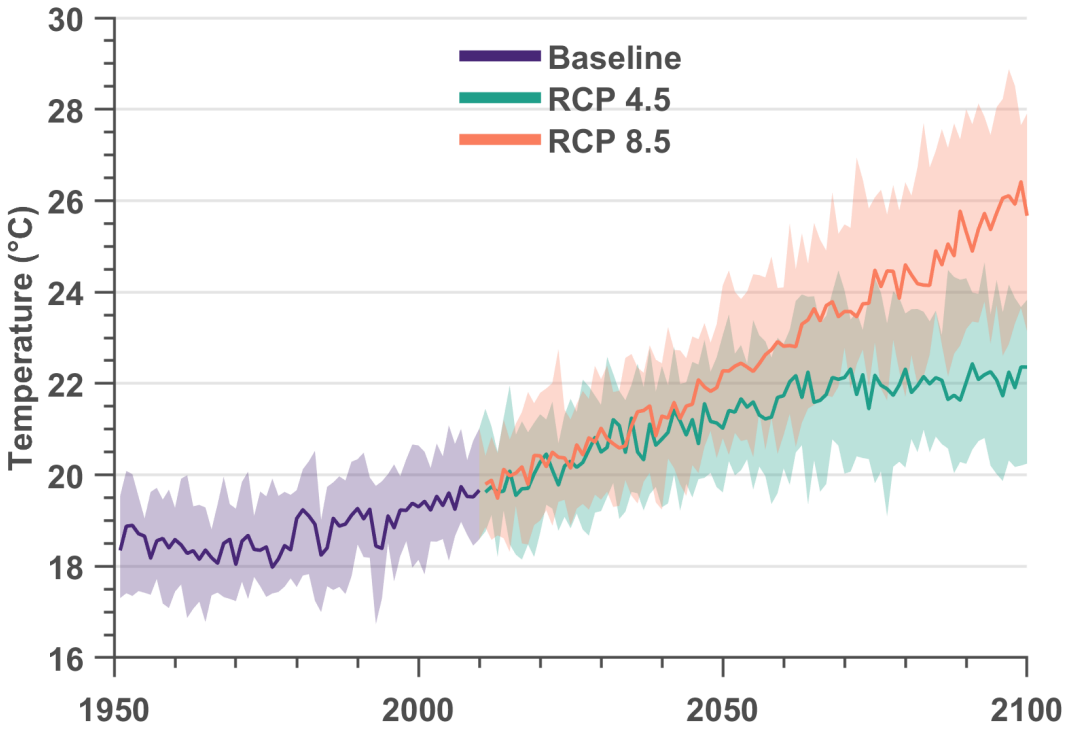


Figure F1.113: Seasonal Average Temperature - Summer.

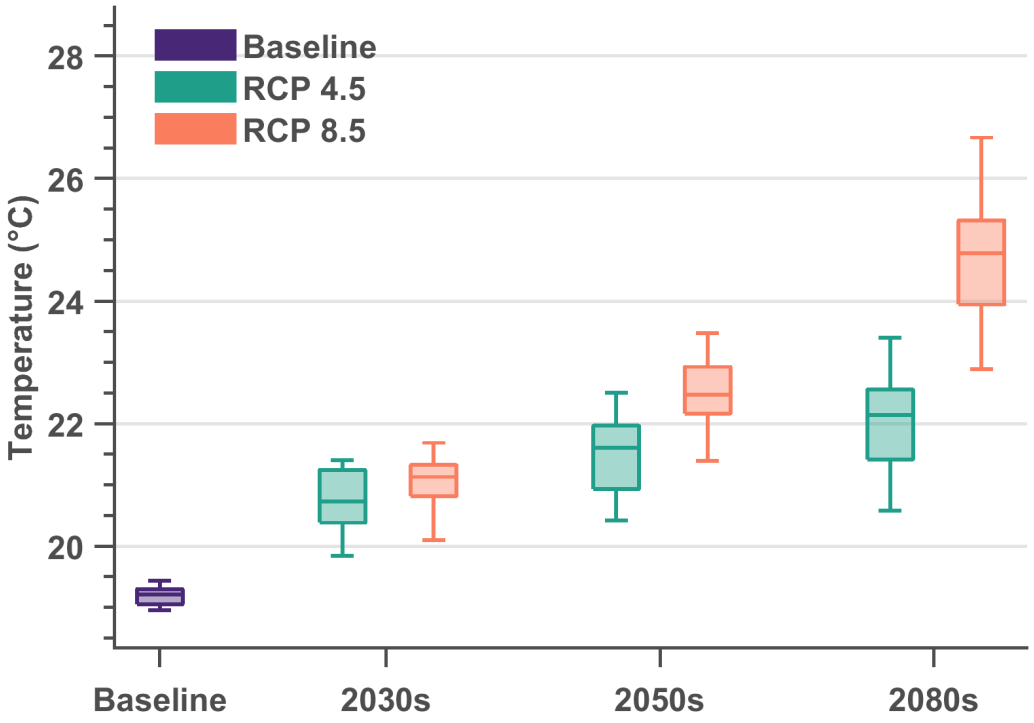


Figure F1.114: Seasonal Average Temperature - Summer.

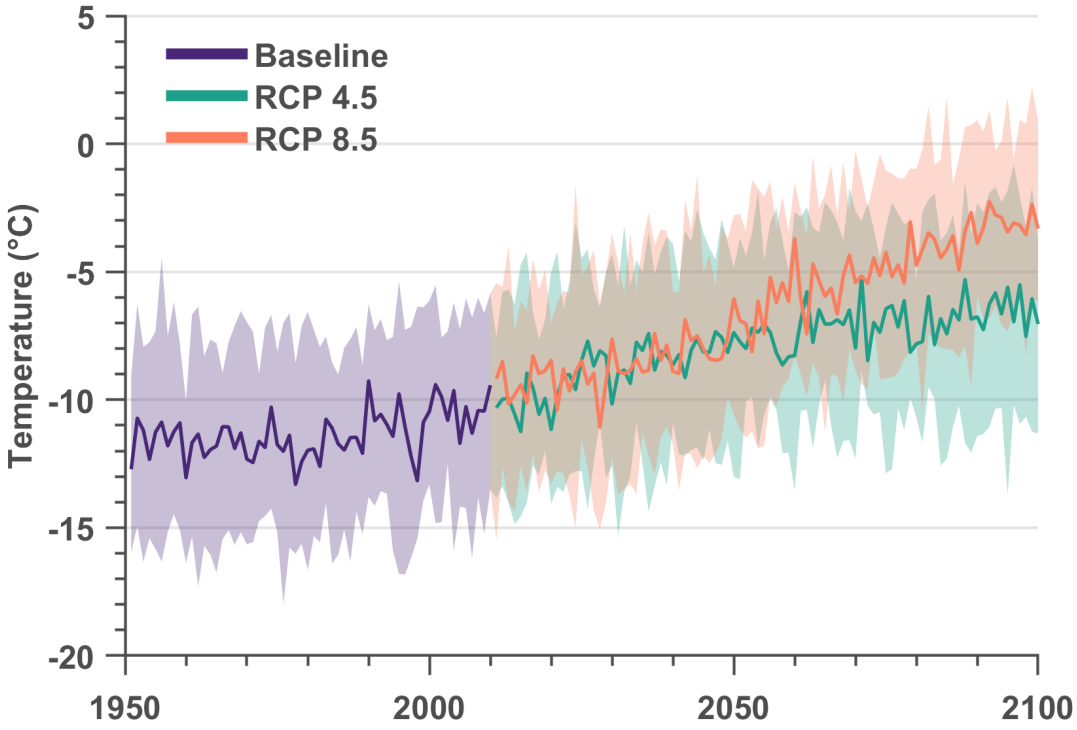


Figure F1.115: Monthly Average Temperature - January.

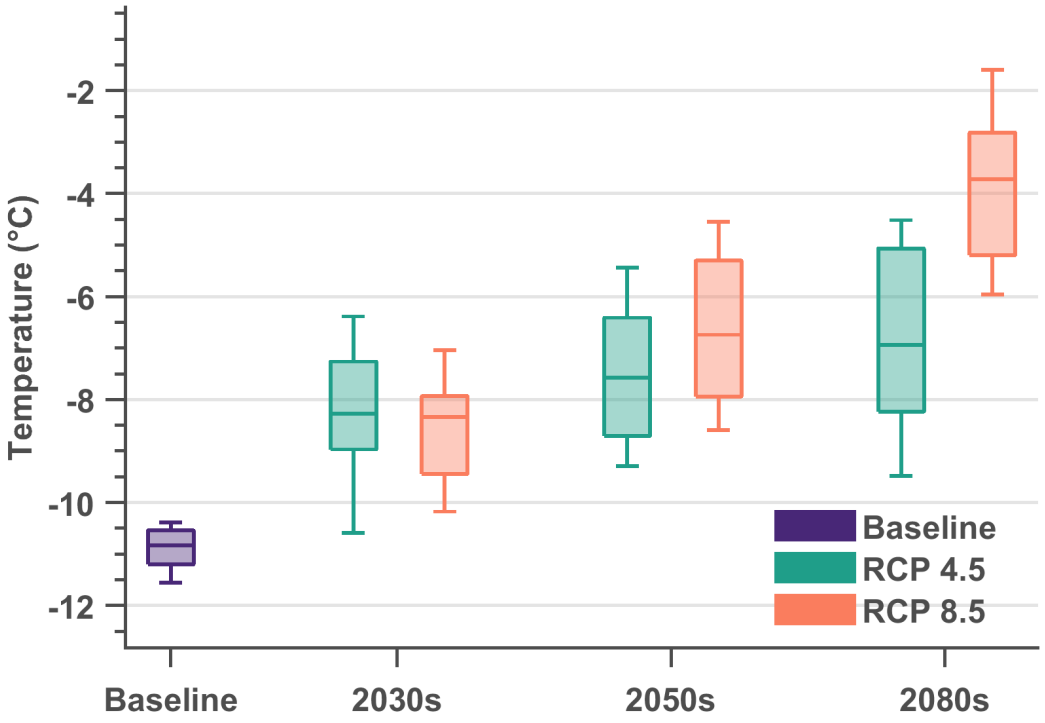


Figure F1.116: Monthly Average Temperature - January.

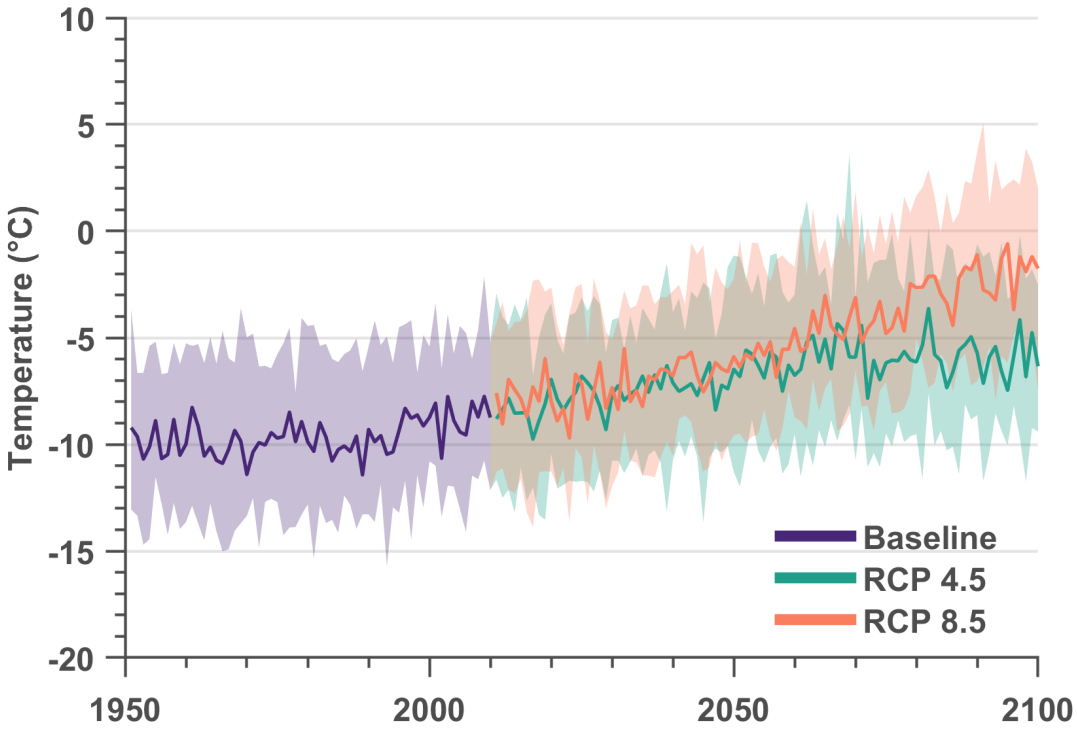


Figure F1.117: Monthly Average Temperature - February.

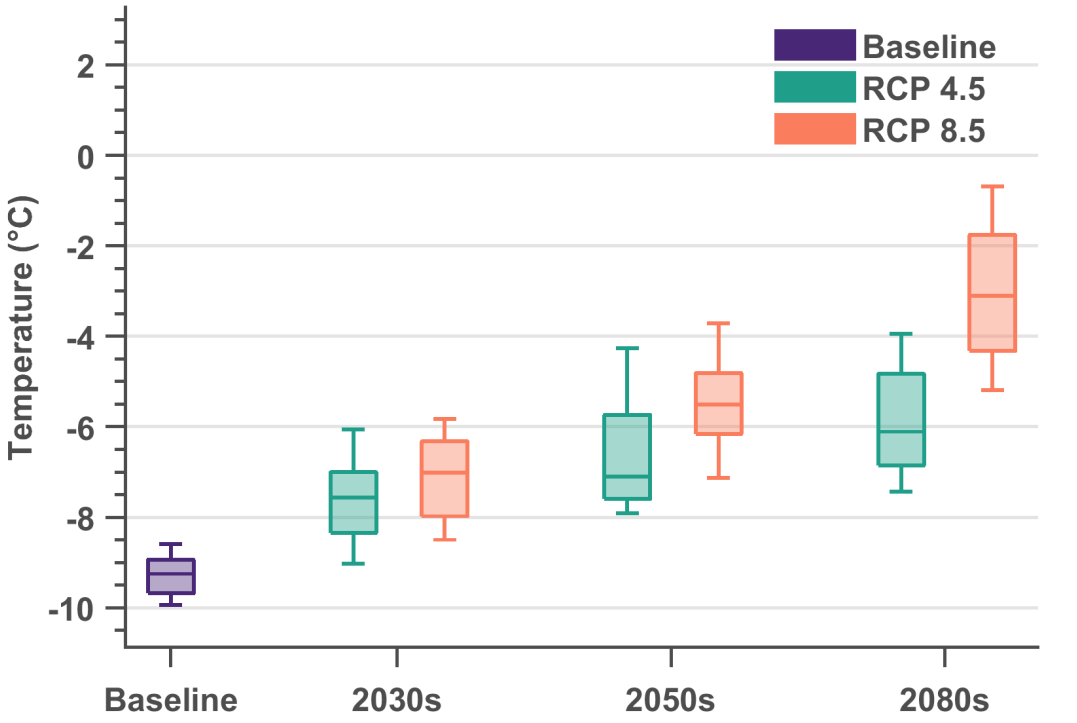


Figure F1.118: Monthly Average Temperature - February.

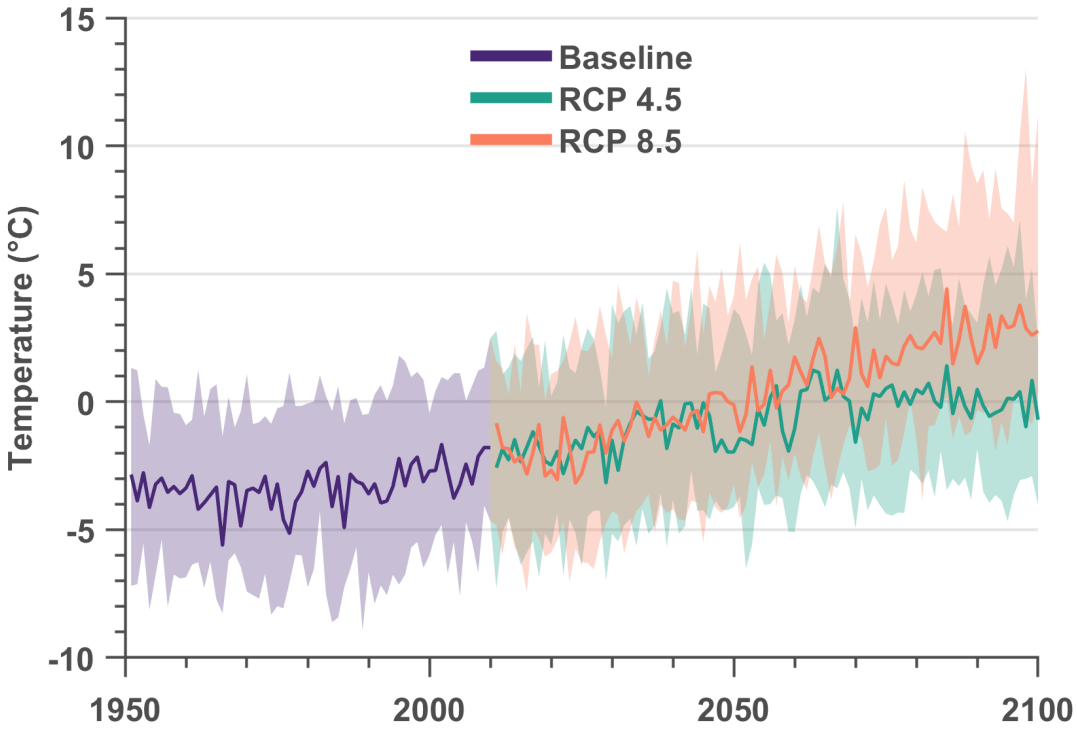


Figure F1.119: Monthly Average Temperature - March.

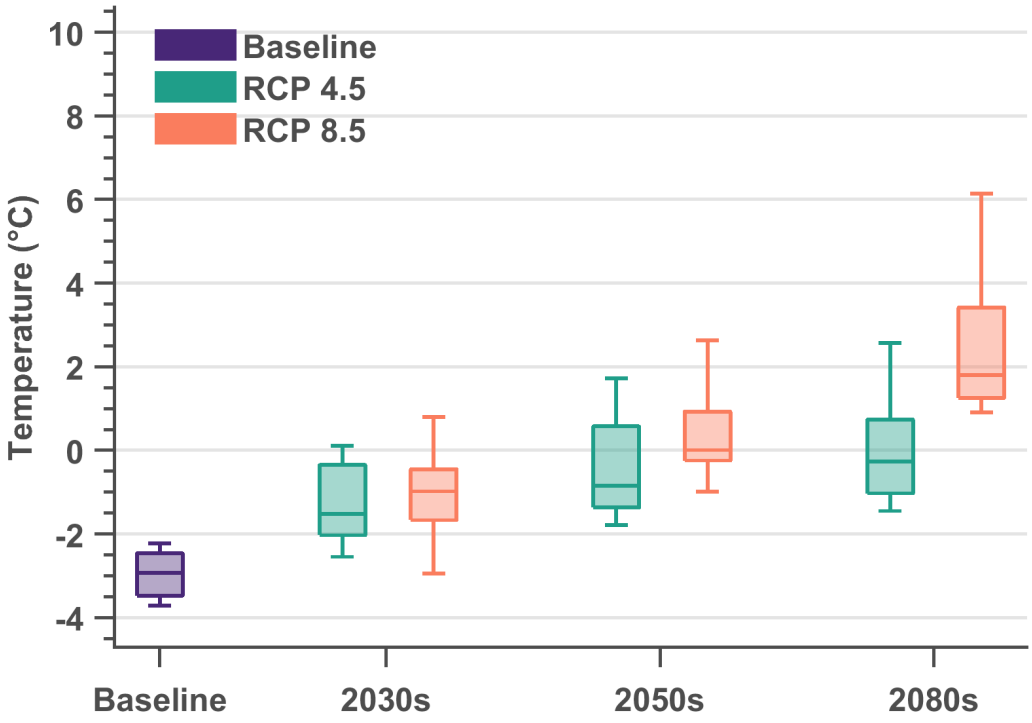


Figure F1.120: Monthly Average Temperature - March.

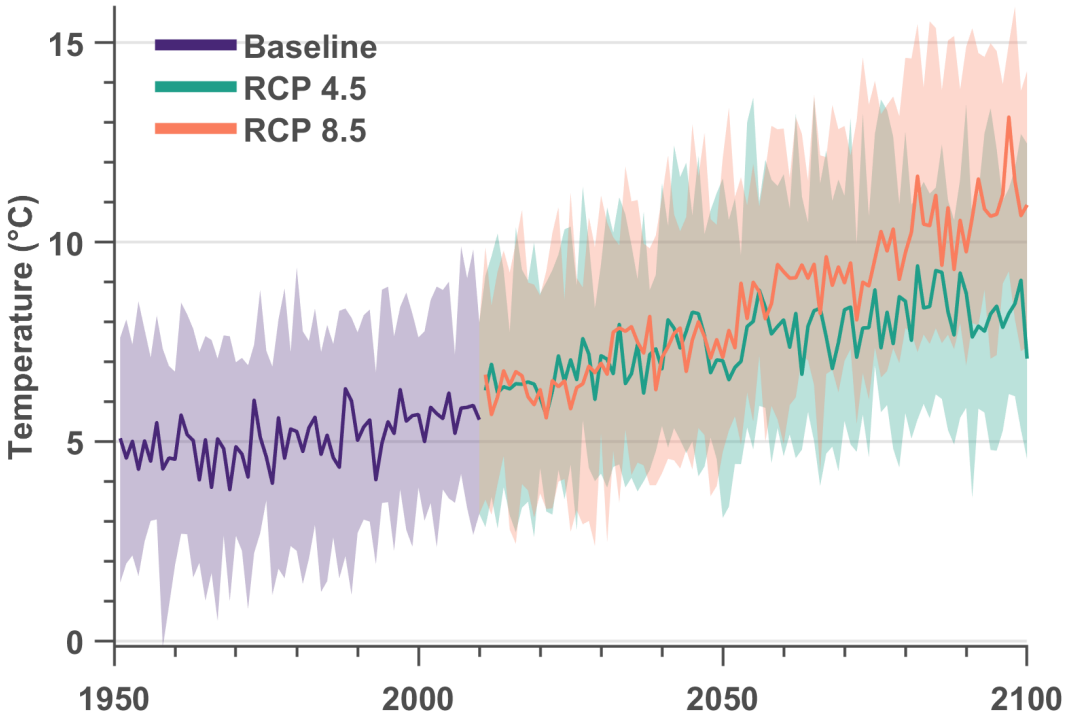


Figure F1.121: Monthly Average Temperature - April.

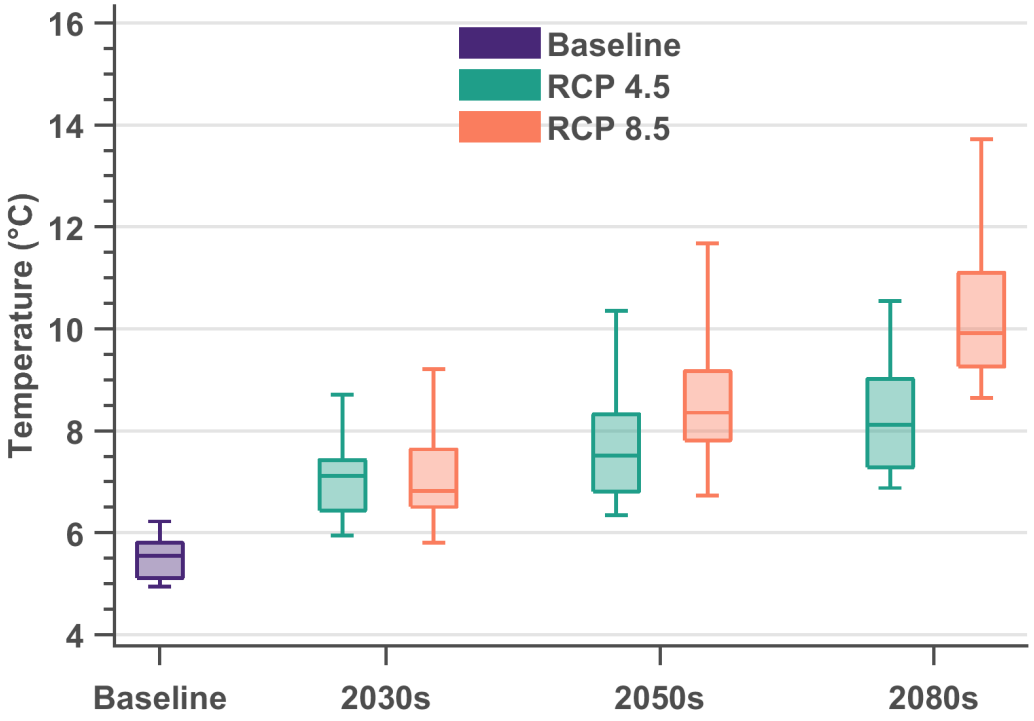


Figure F1.122: Monthly Average Temperature - April.

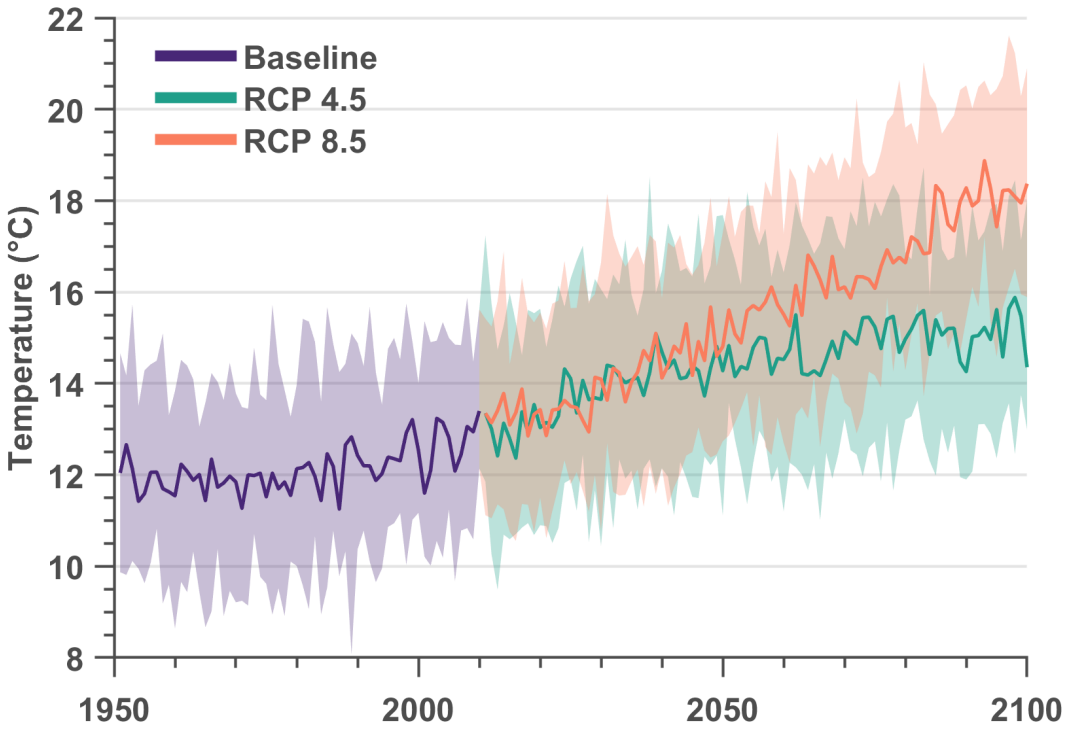


Figure F1.123: Monthly Average Temperature - May.

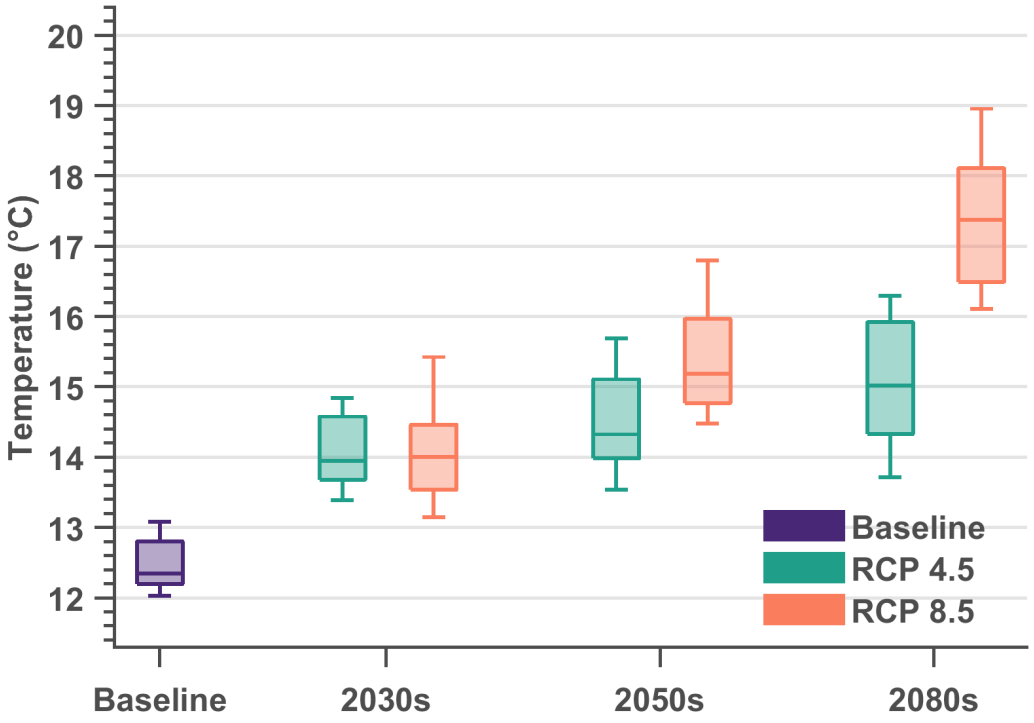


Figure F1.124: Monthly Average Temperature - May.

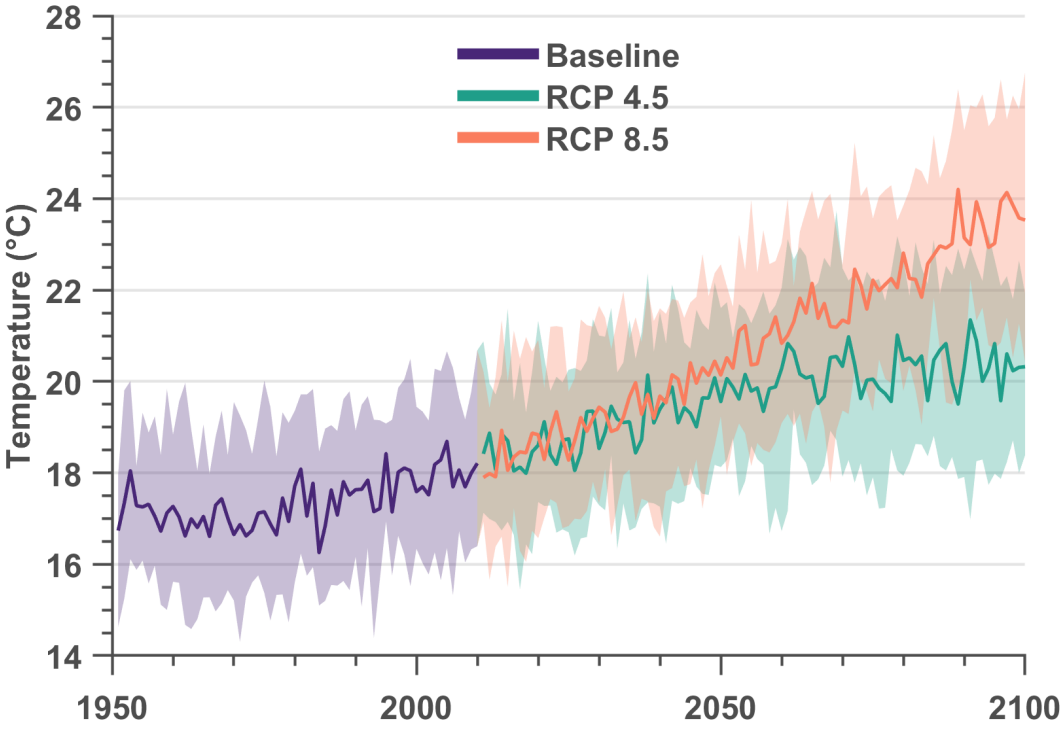


Figure F1.125: Monthly Average Temperature - June.

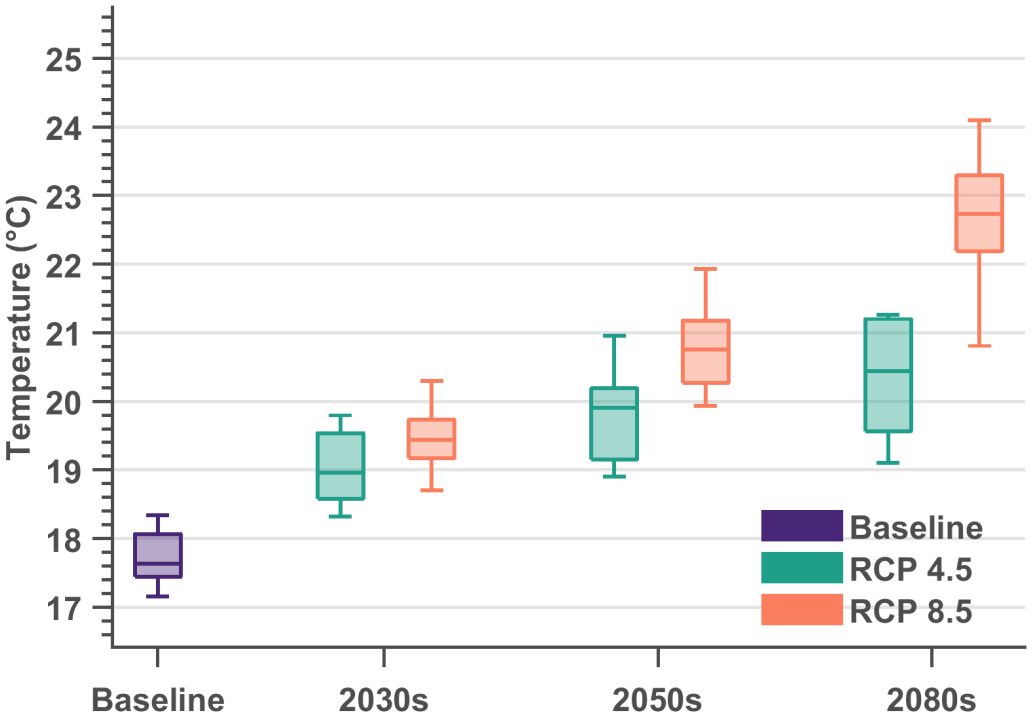


Figure F1.126: Monthly Average Temperature - June.

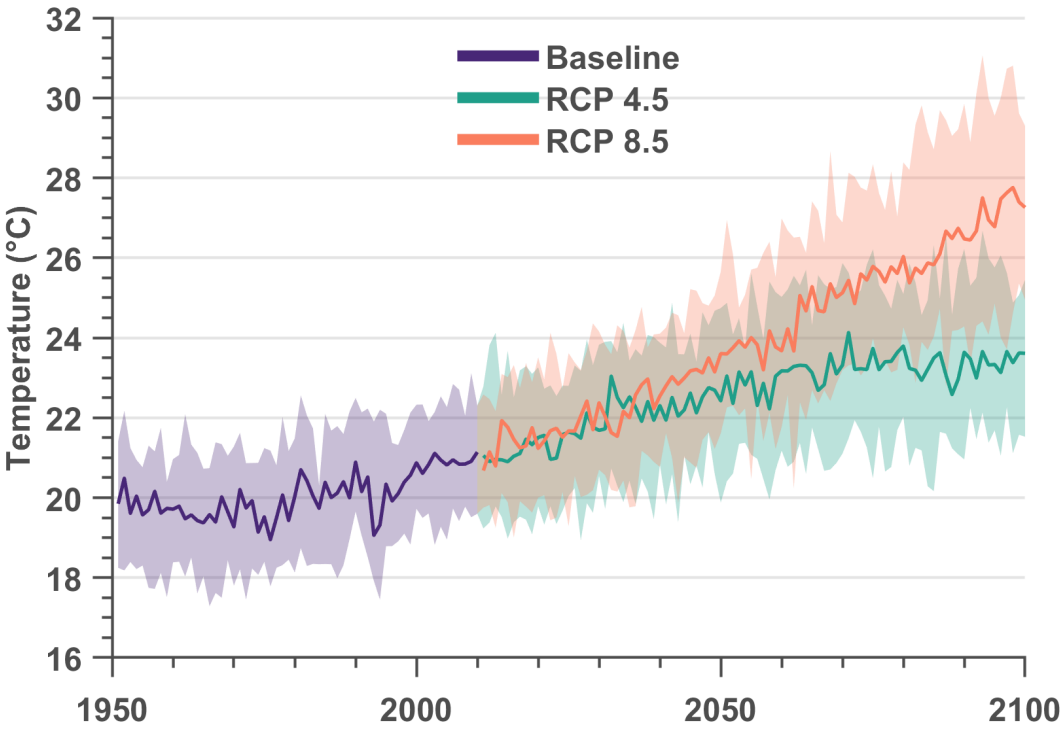


Figure F1.127: Monthly Average Temperature - July.

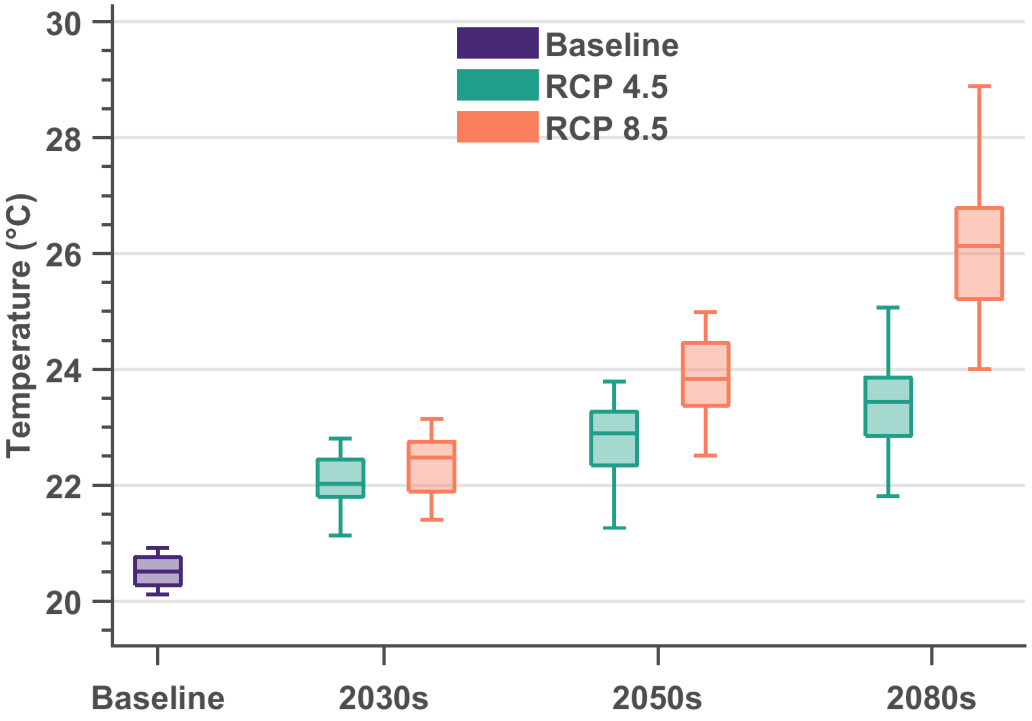


Figure F1.128: Monthly Average Temperature - July.

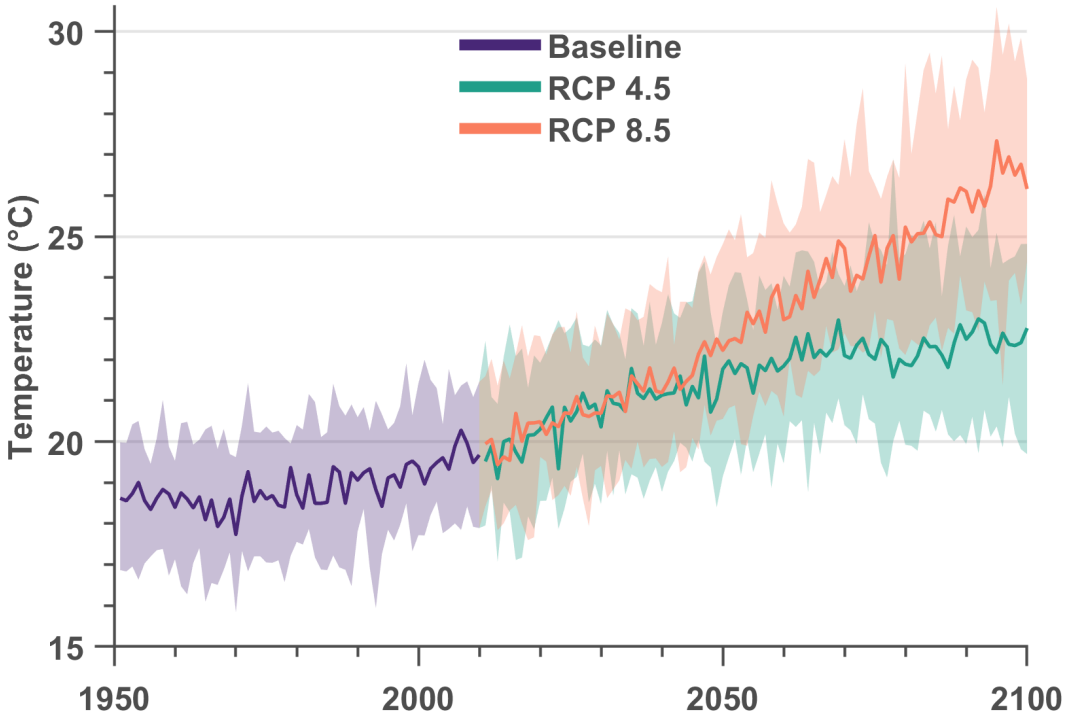


Figure F1.129: Monthly Average Temperature - August.

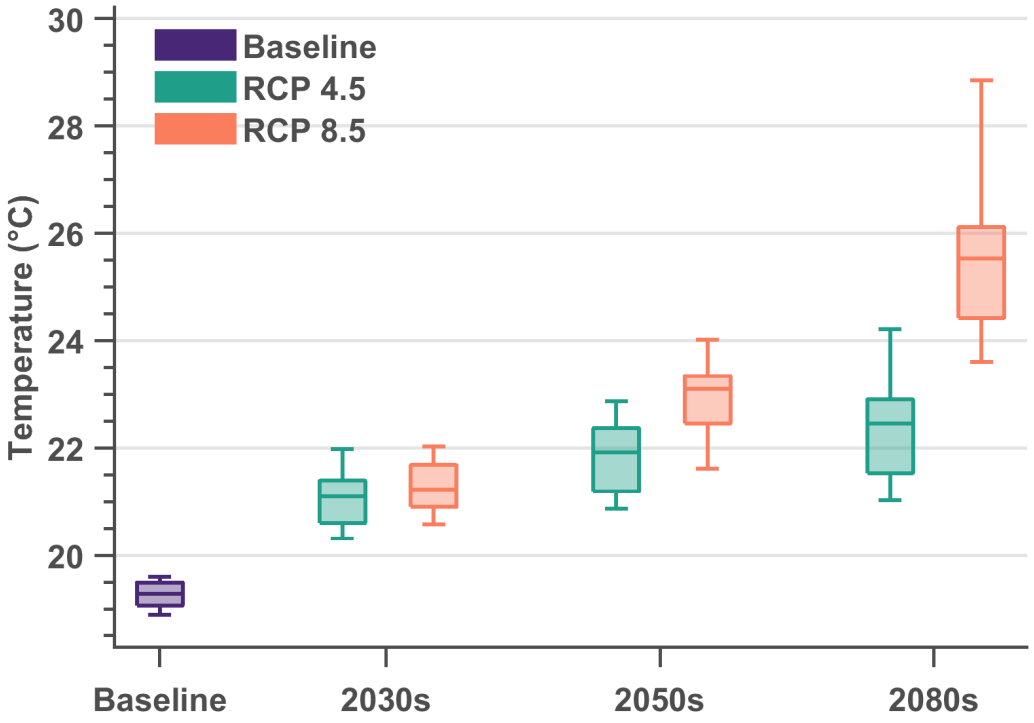


Figure F1.130: Monthly Average Temperature - August.

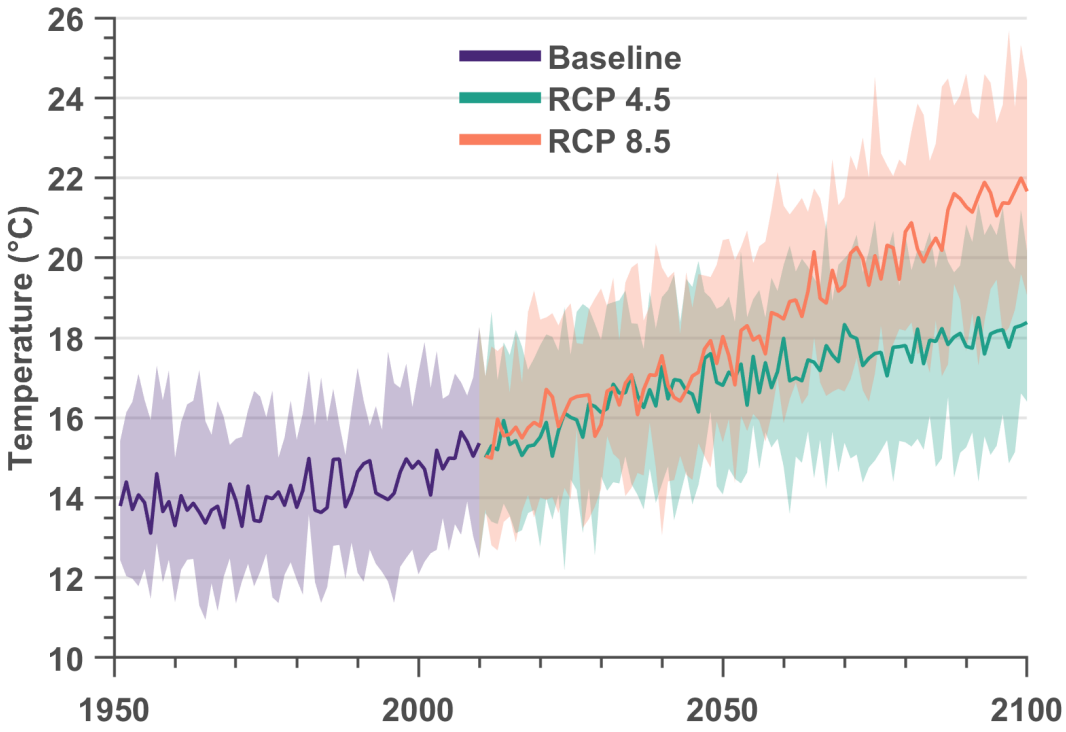


Figure F1.131: Monthly Average Temperature - September.

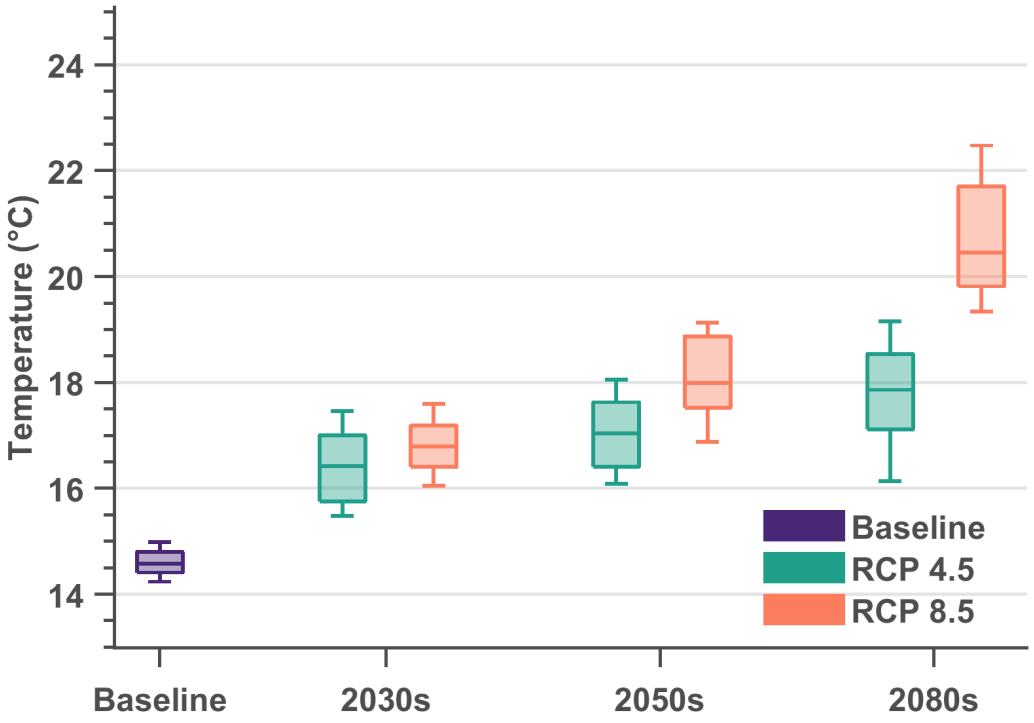


Figure F1.132: Monthly Average Temperature - September.

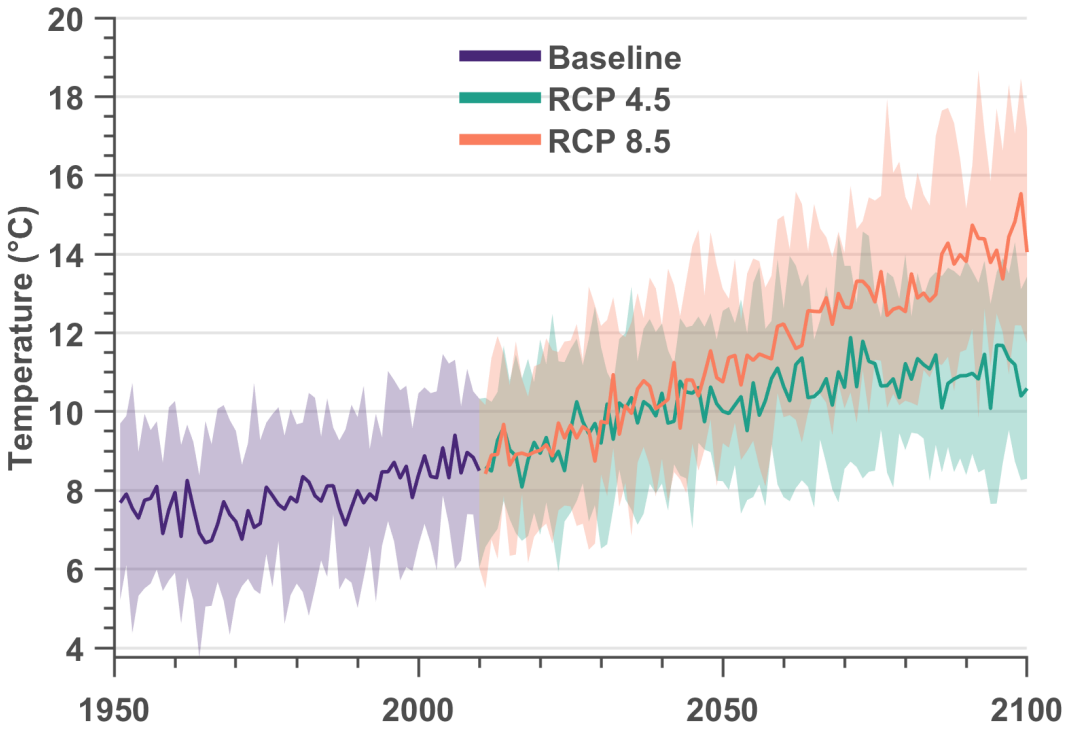


Figure F1.133: Monthly Average Temperature - October.

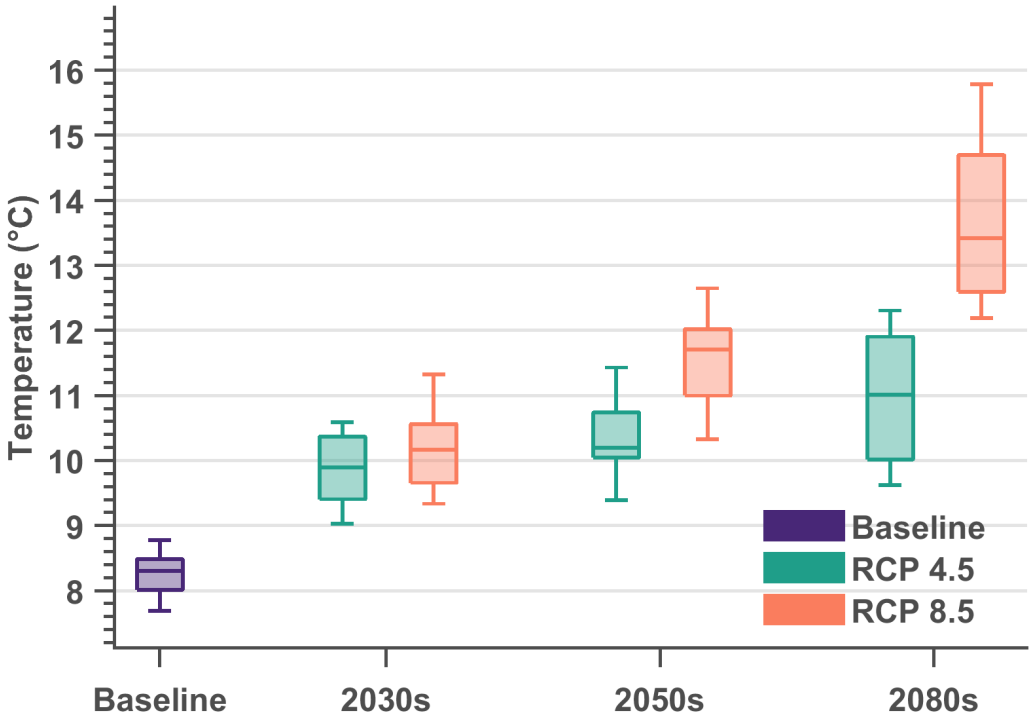


Figure F1.134: Monthly Average Temperature - October.

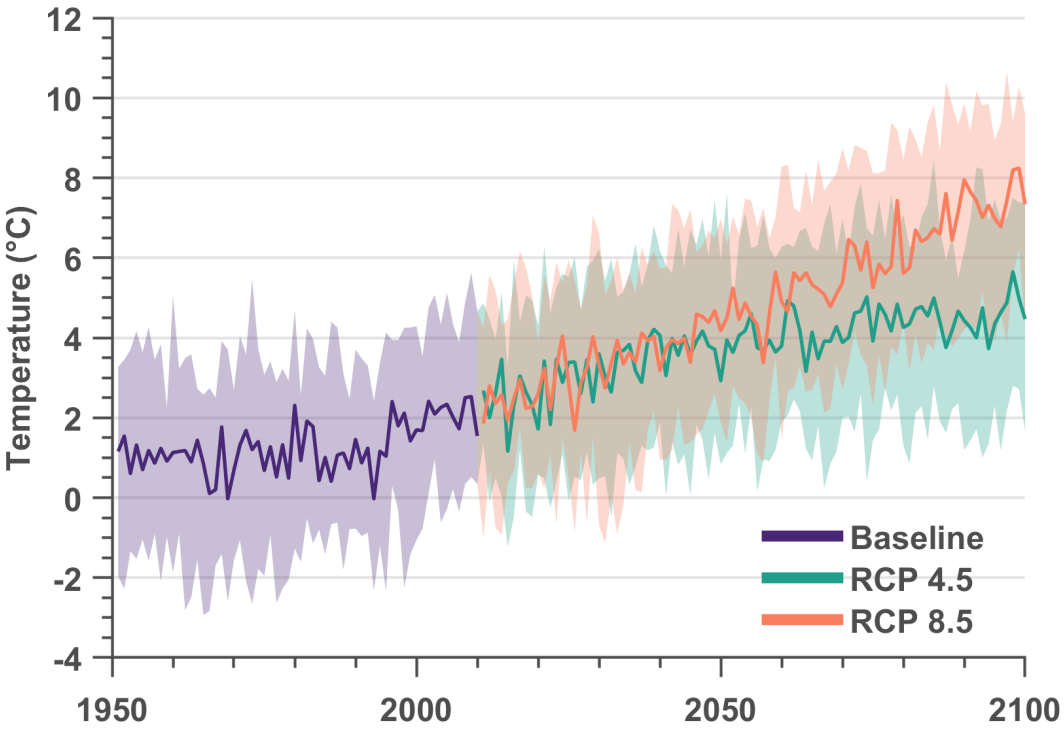


Figure F1.135: Monthly Average Temperature - November.

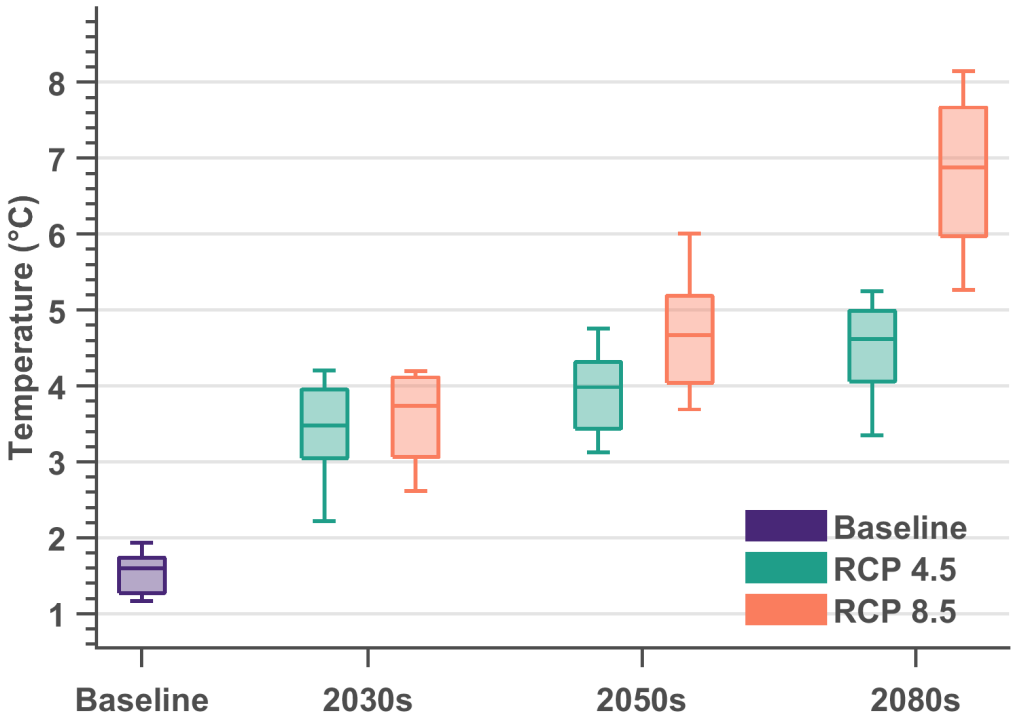


Figure F1.136: Monthly Average Temperature - November.

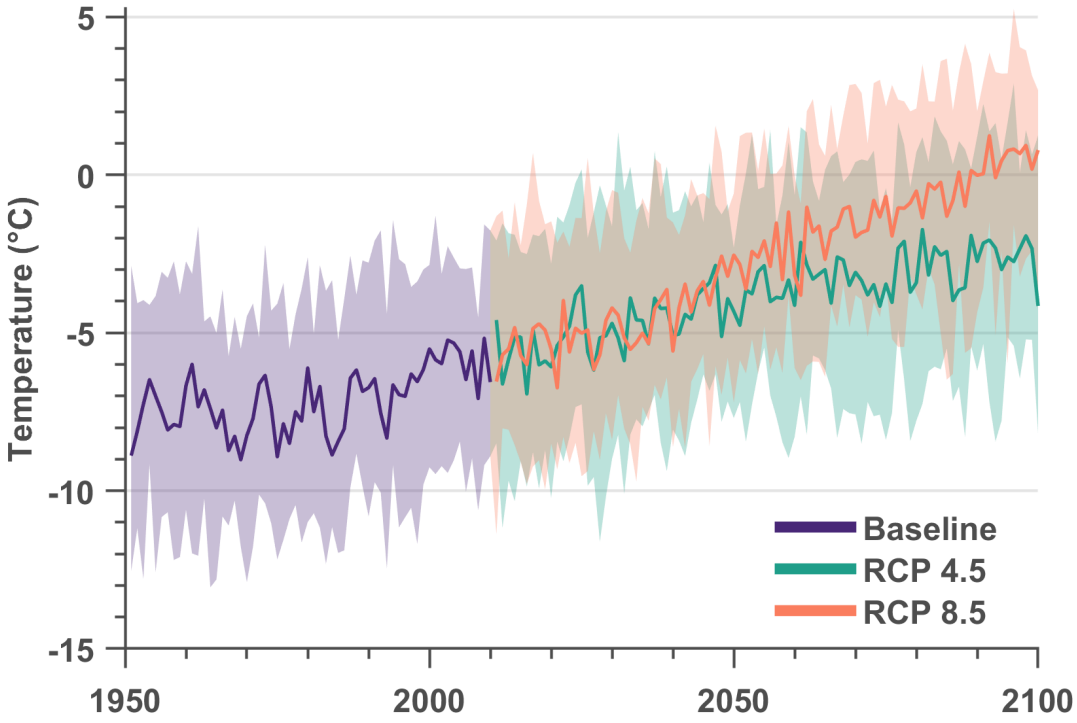


Figure F1.137: Monthly Average Temperature - December.

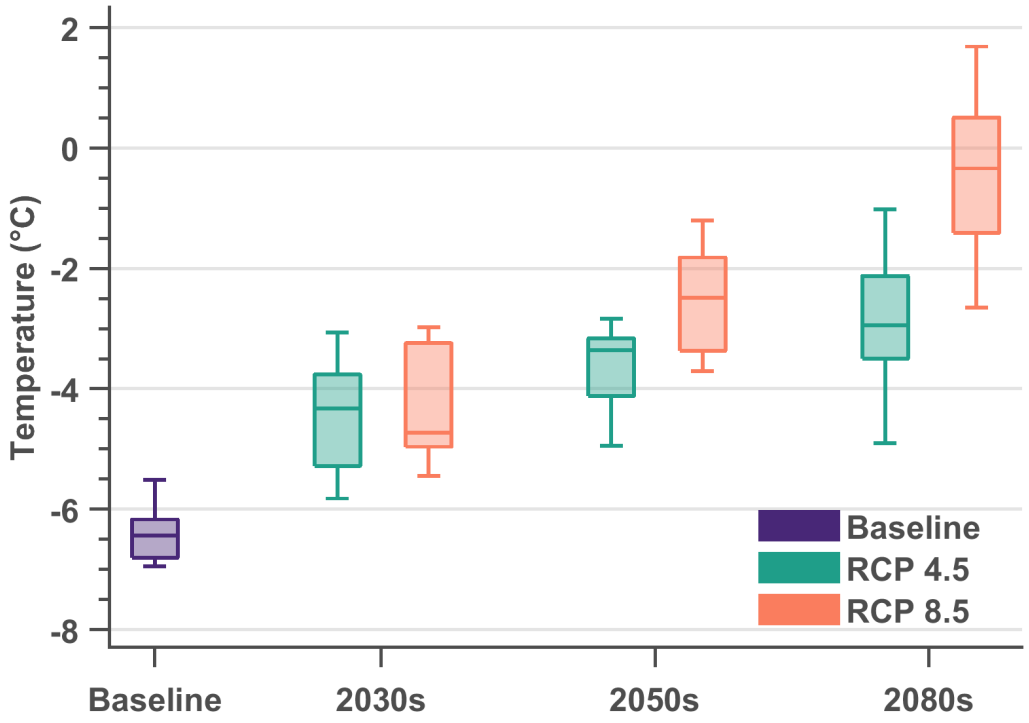


Figure F1.138: Monthly Average Temperature - December.

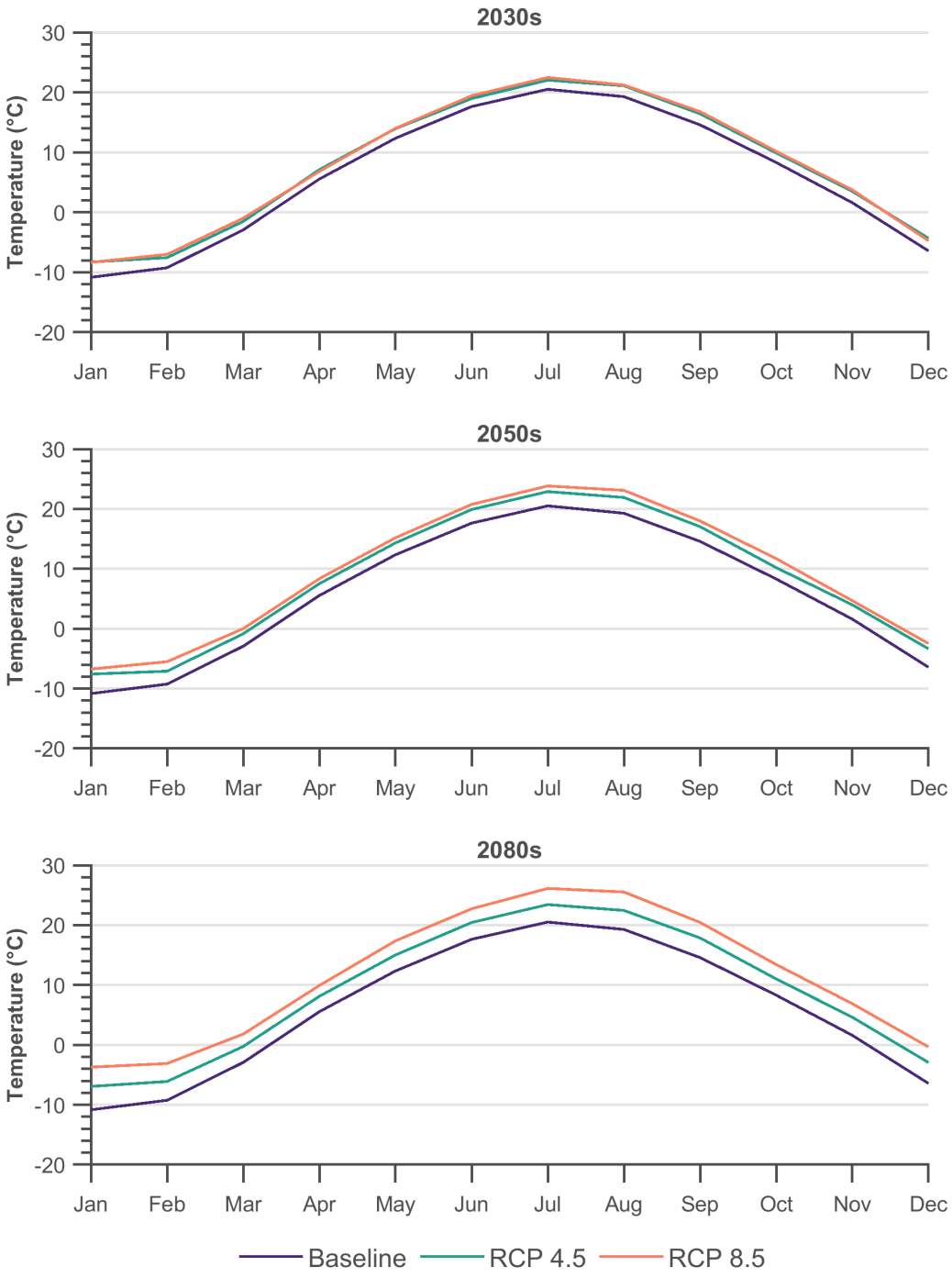


Figure F1.139: Monthly Average Temperature.

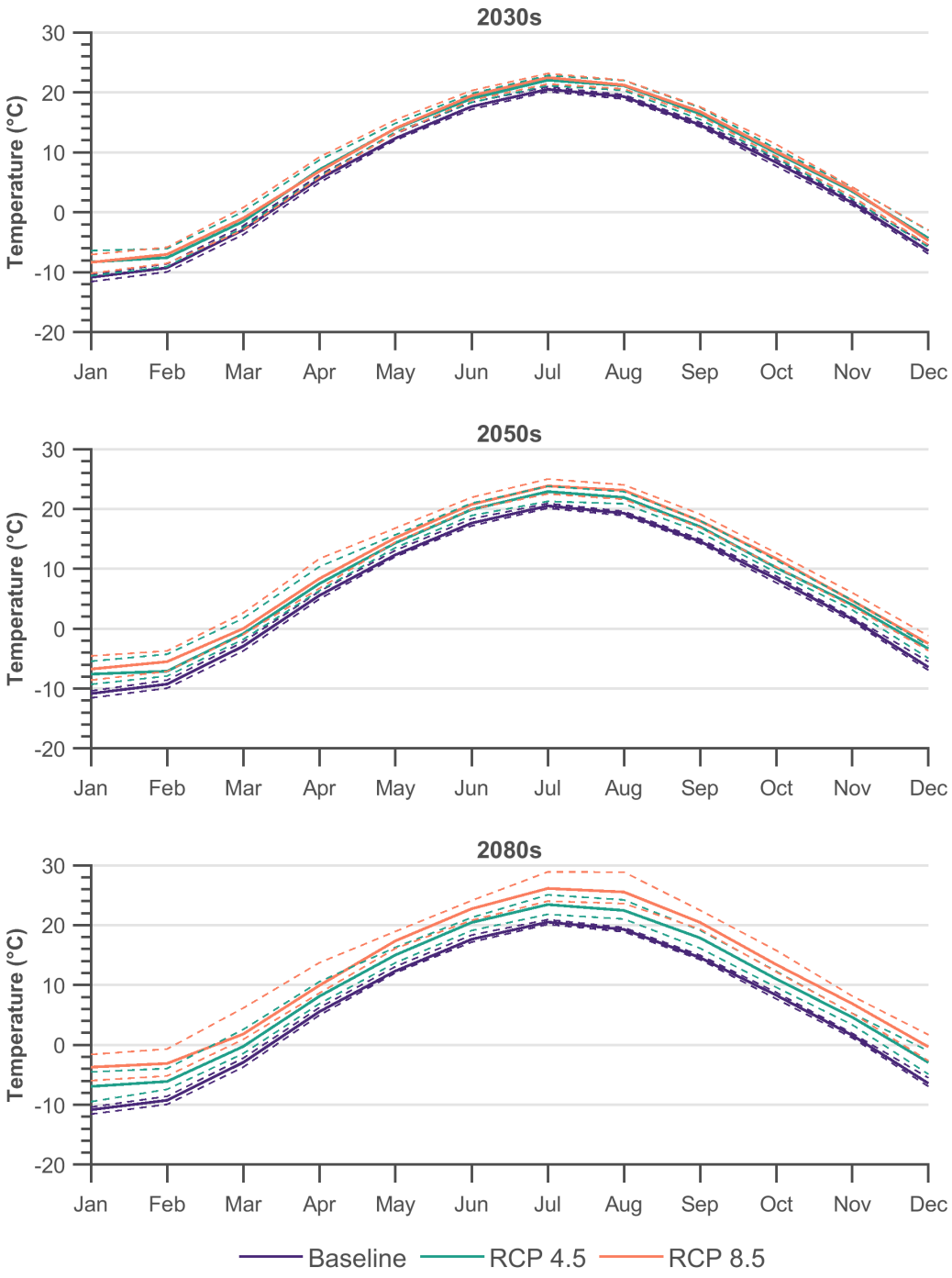


Figure F1.140: Monthly Average Temperature. Dashed lines indicate the 10% and 90% percentile.

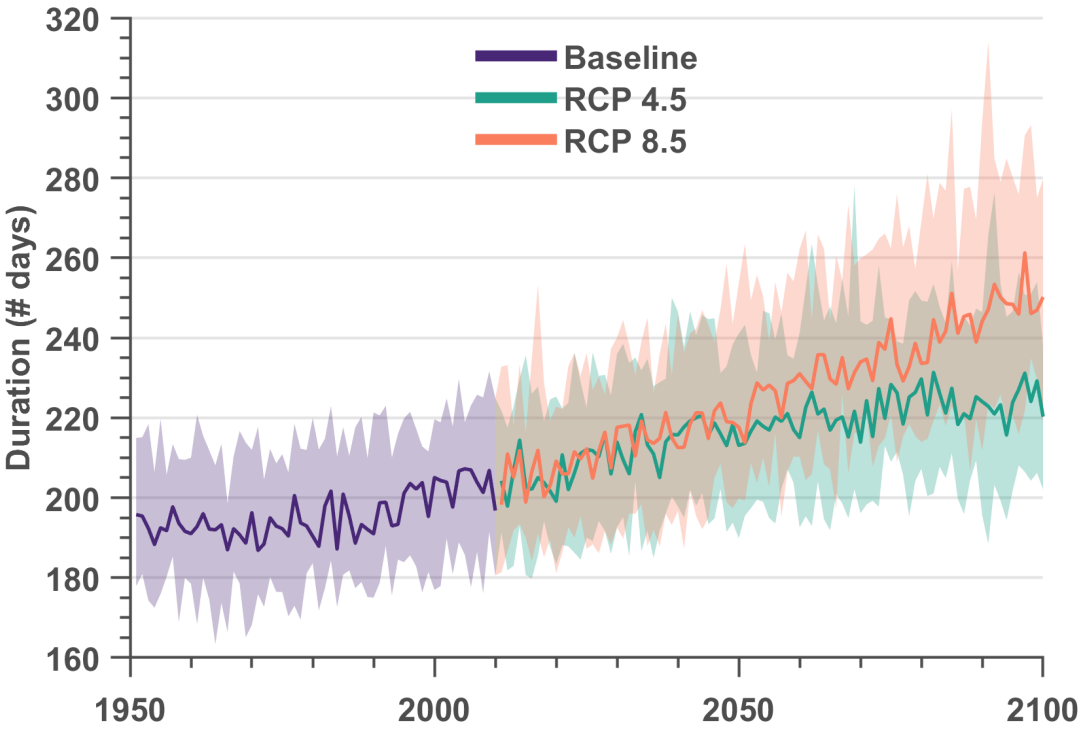


Figure F1.141: Growing Season Length.

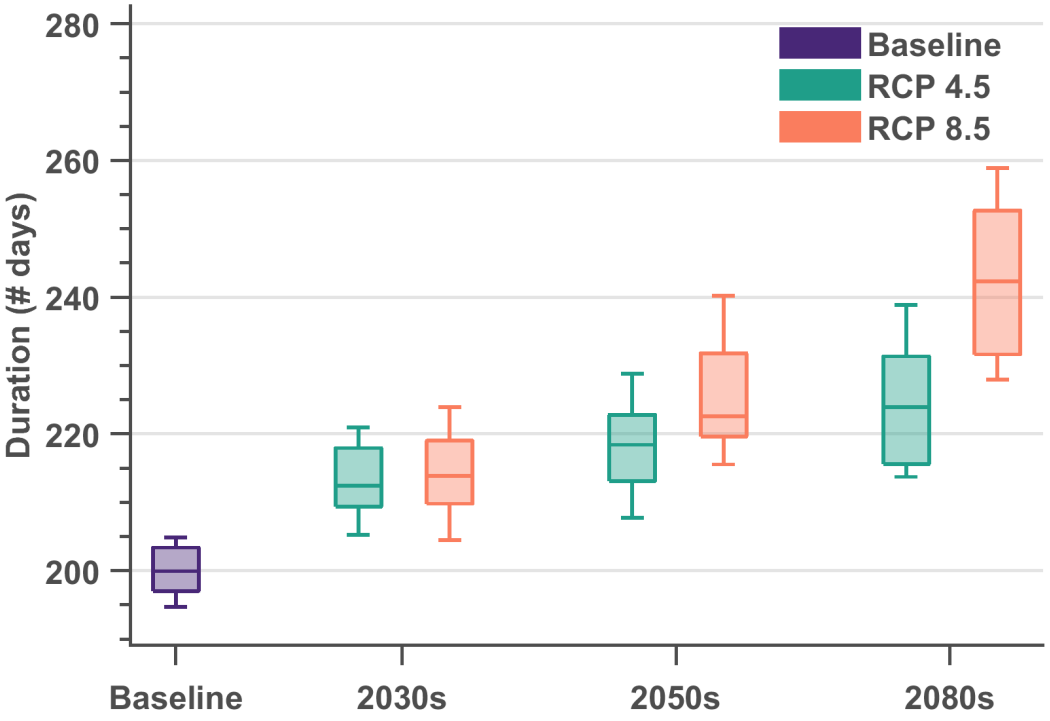


Figure F1.142: Growing Season Length.

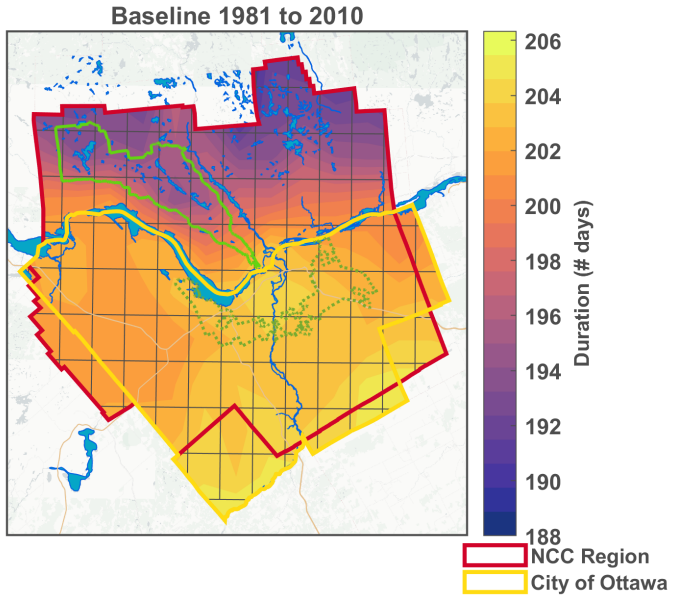


Figure F1.143: Growing Season Length - Baseline.

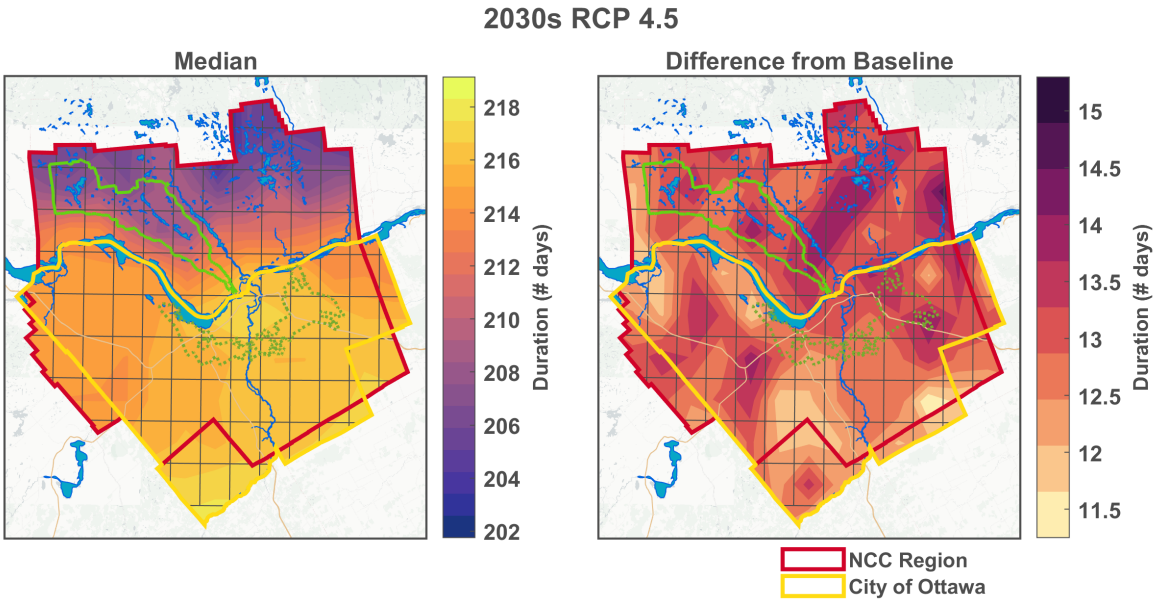


Figure F1.144: Growing Season Length - 2030s RCP 4.5.

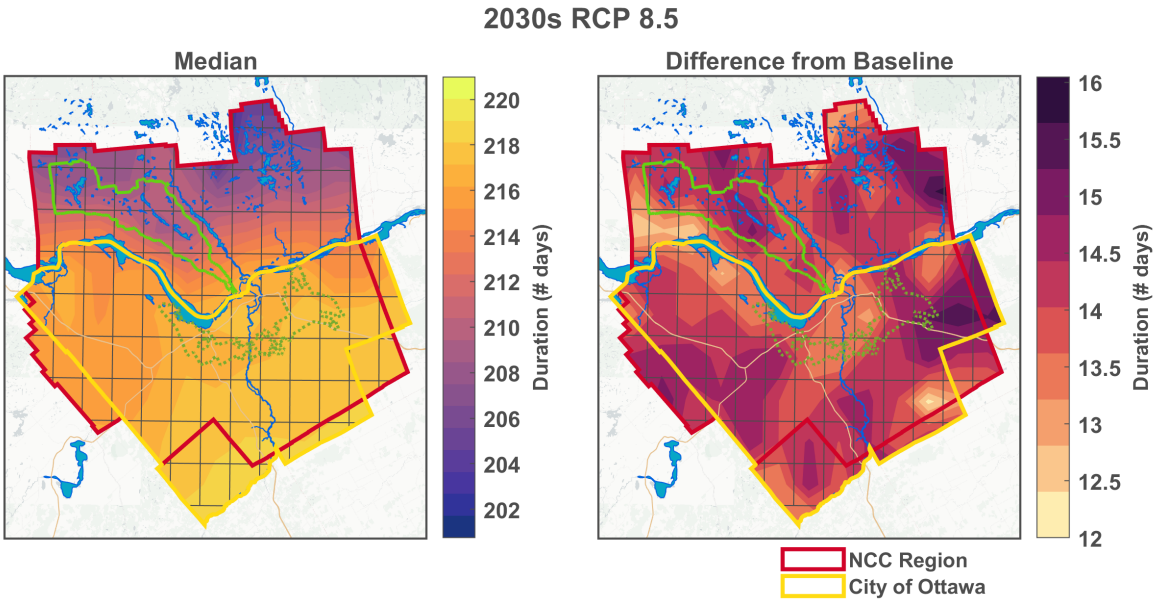


Figure F1.145: Growing Season Length - 2030s RCP 8.5.

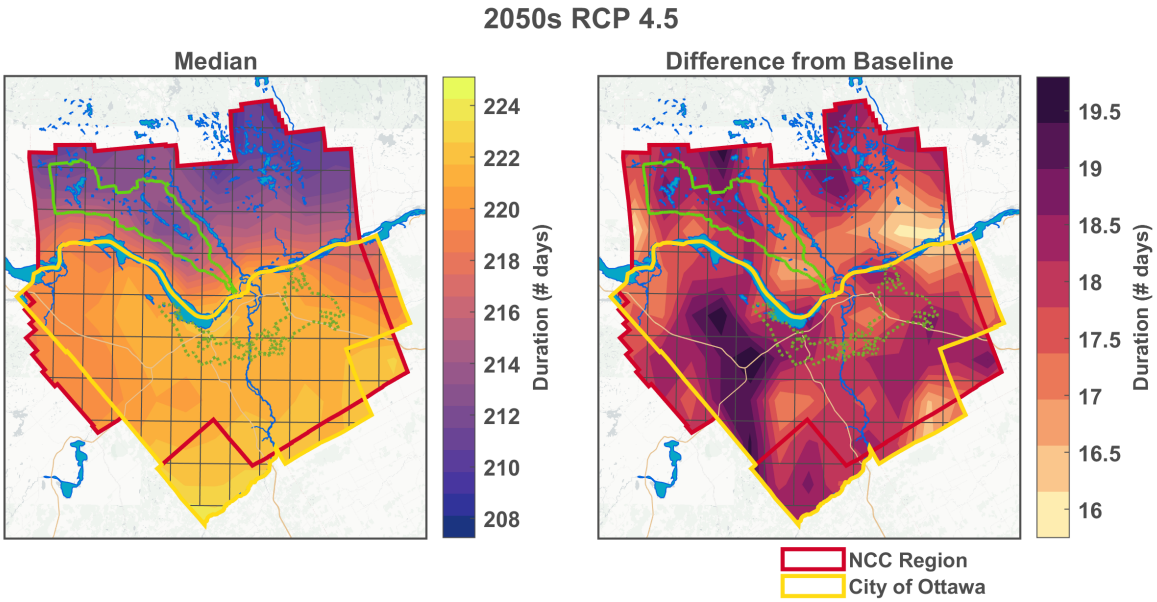


Figure F1.146: Growing Season Length - 2050s RCP 4.5.

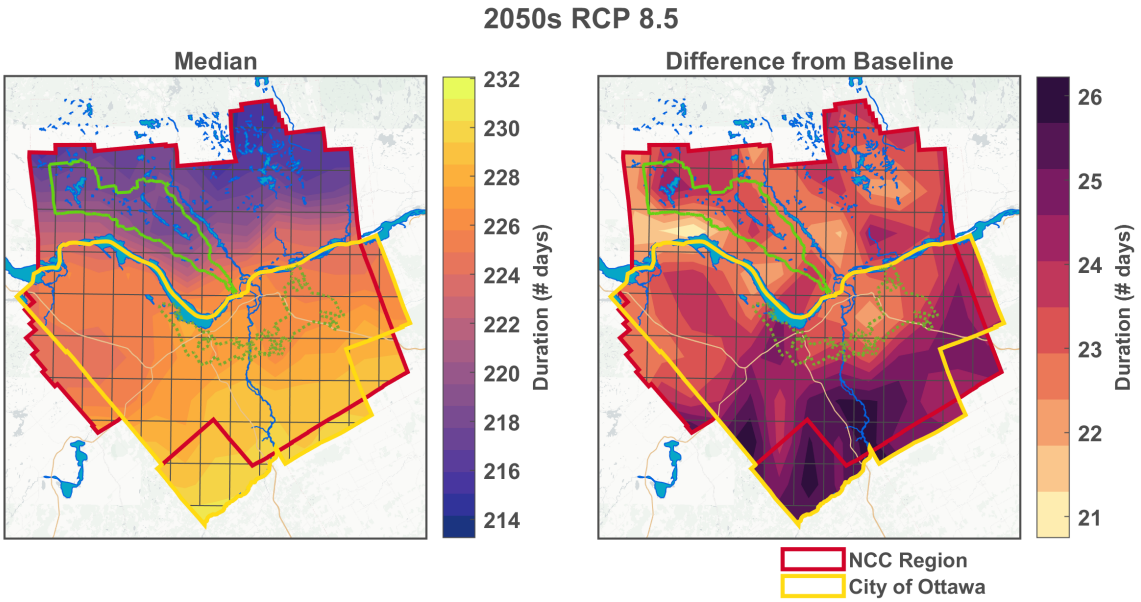


Figure F1.147: Growing Season Length - 2050s RCP 8.5.

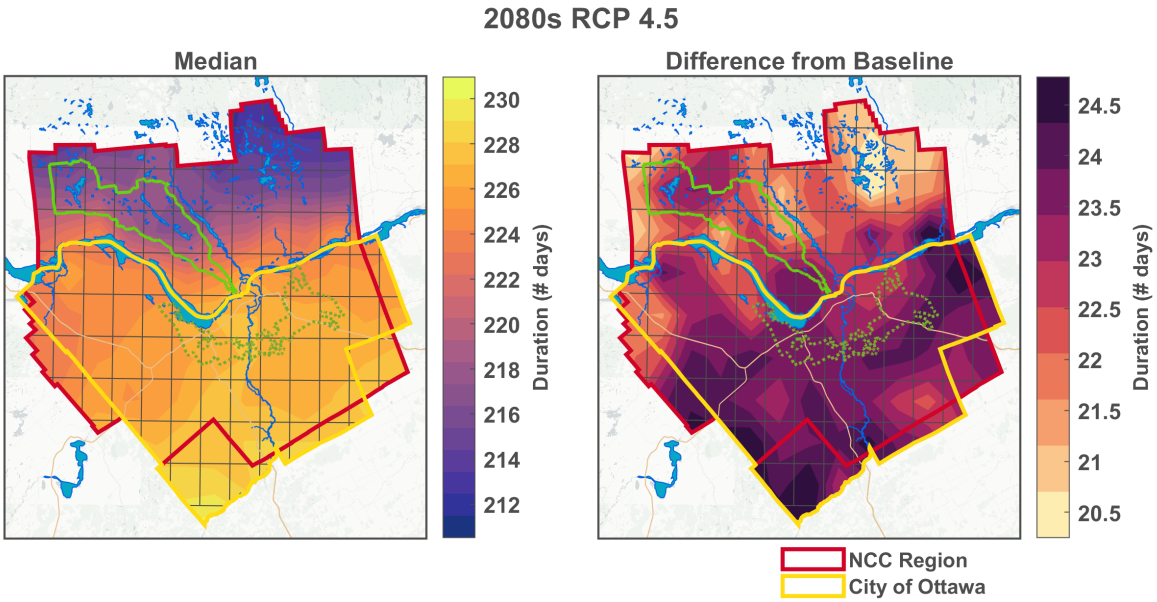


Figure F1.148: Growing Season Length - 2080s RCP 4.5.

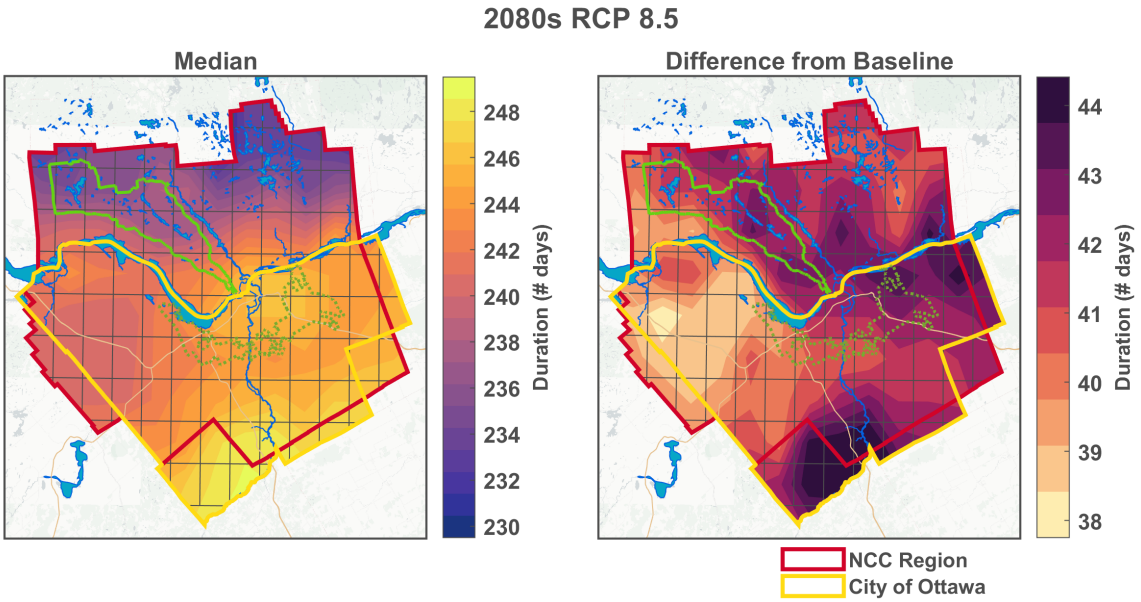


Figure F1.149: Growing Season Length - 2080s RCP 8.5.

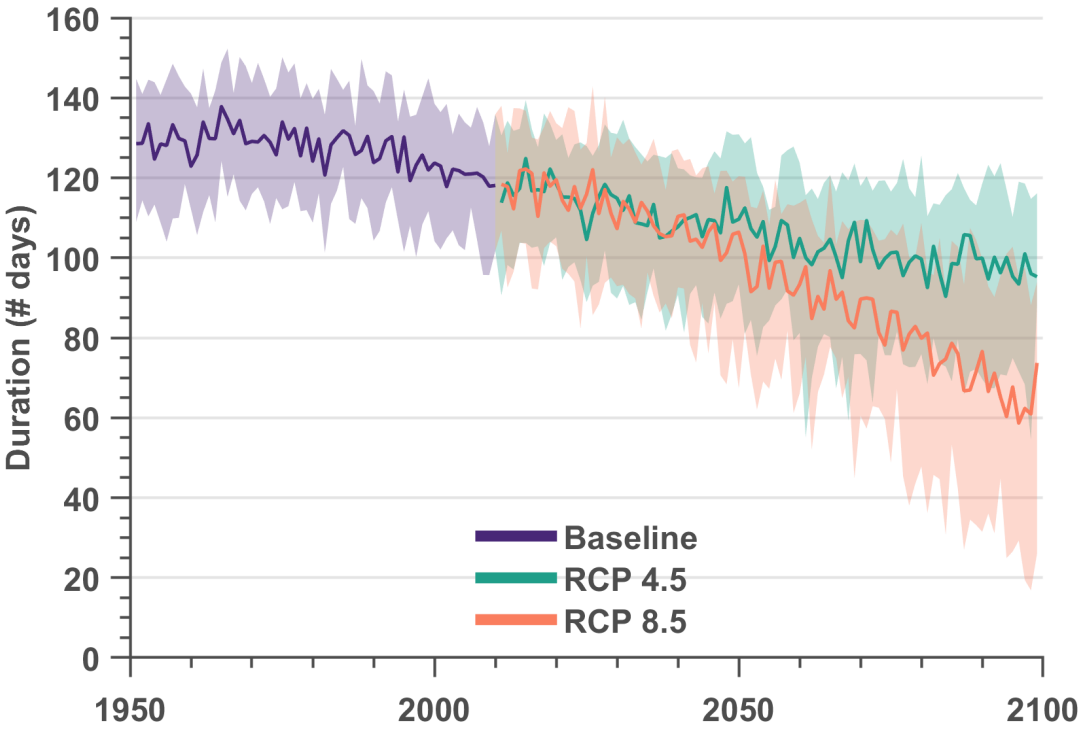


Figure F1.150: Frost Season Length.

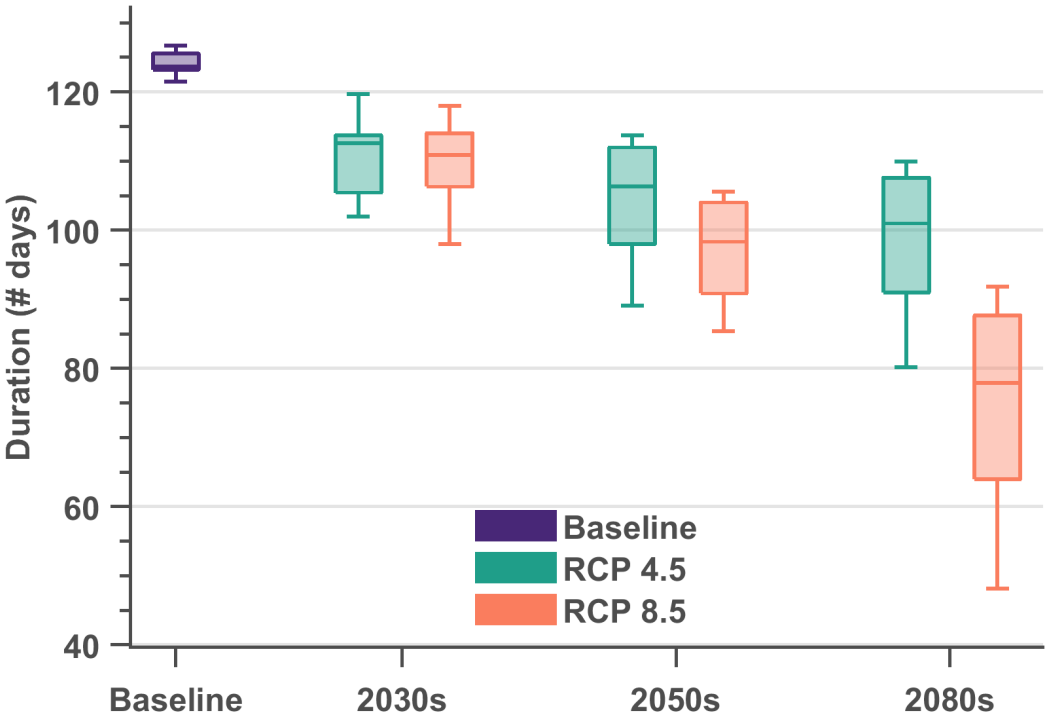


Figure F1.151: Frost Season Length.

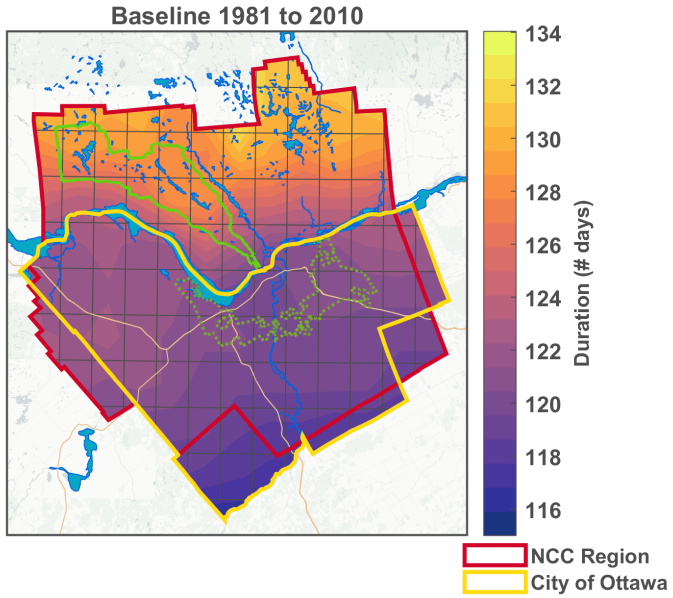


Figure F1.152: Frost Season Length - Baseline.

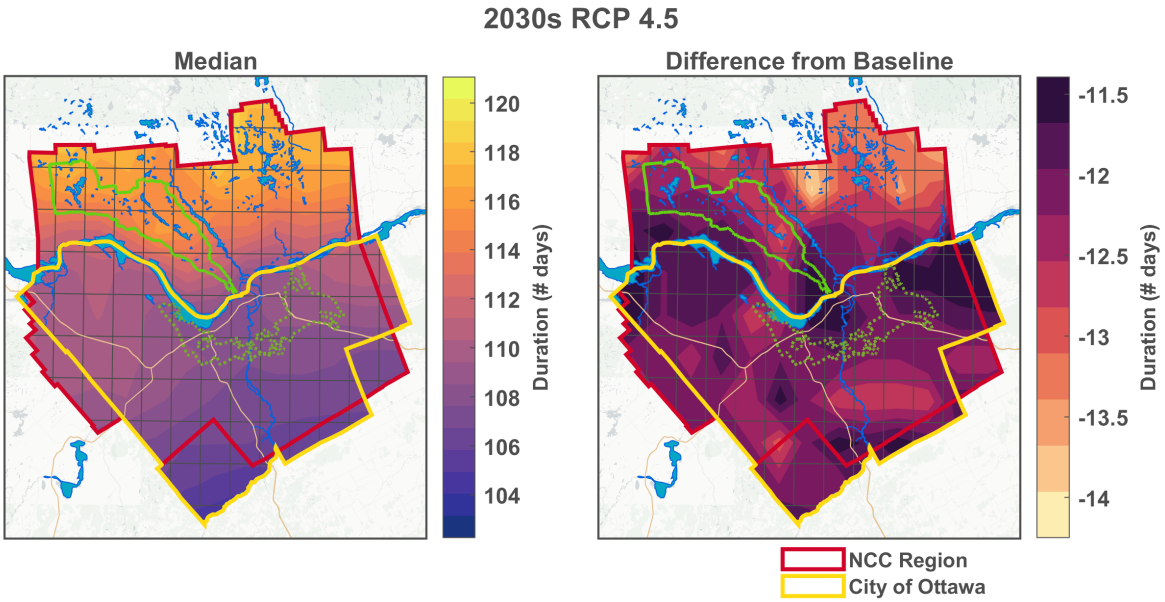


Figure F1.153: Frost Season Length - 2030s RCP 4.5.

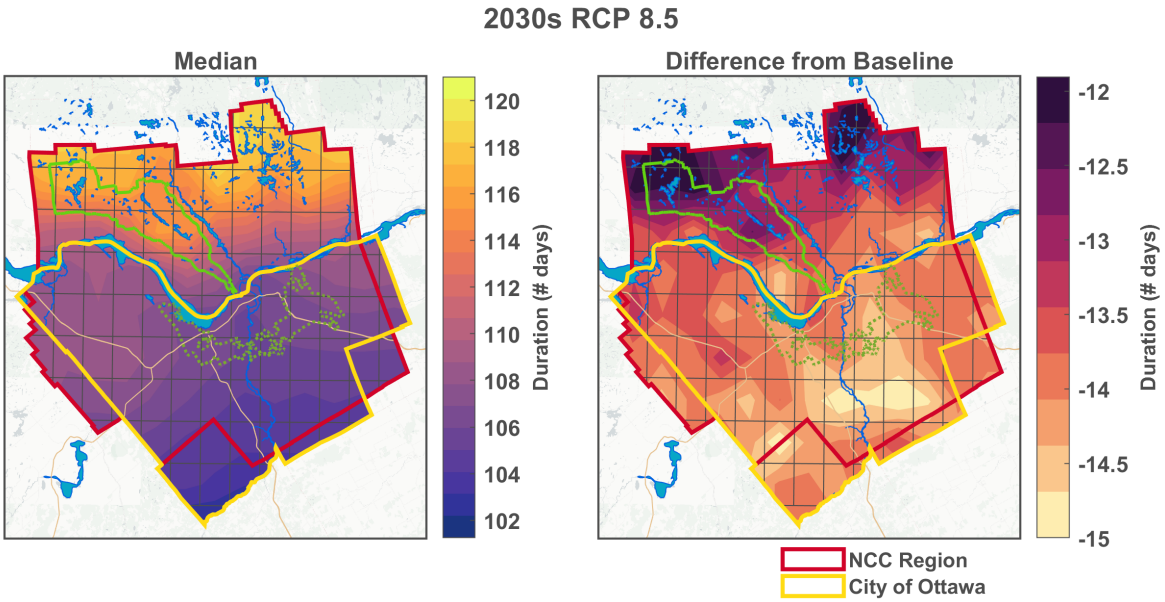


Figure F1.154: Frost Season Length - 2030s RCP 8.5.

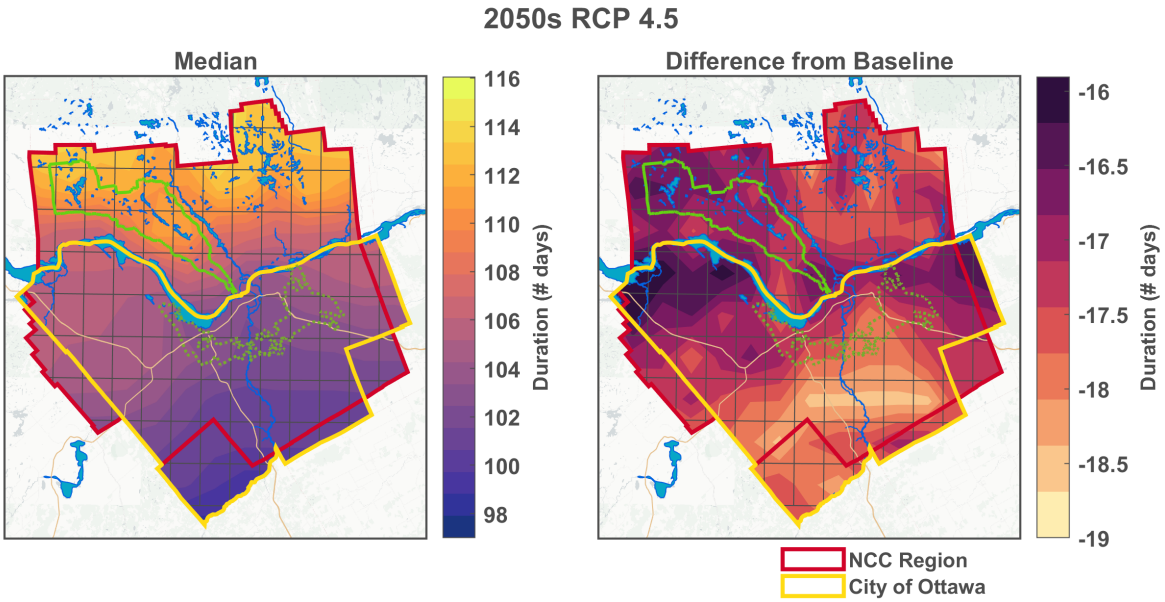


Figure F1.155: Frost Season Length - 2050s RCP 4.5.

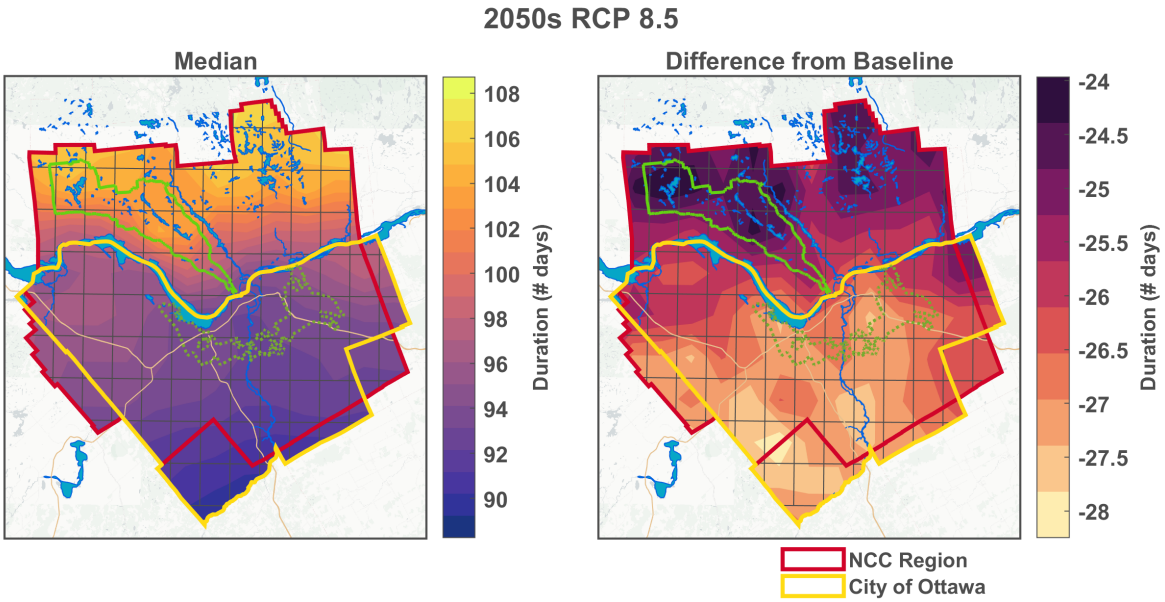


Figure F1.156: Frost Season Length - 2050s RCP 8.5.

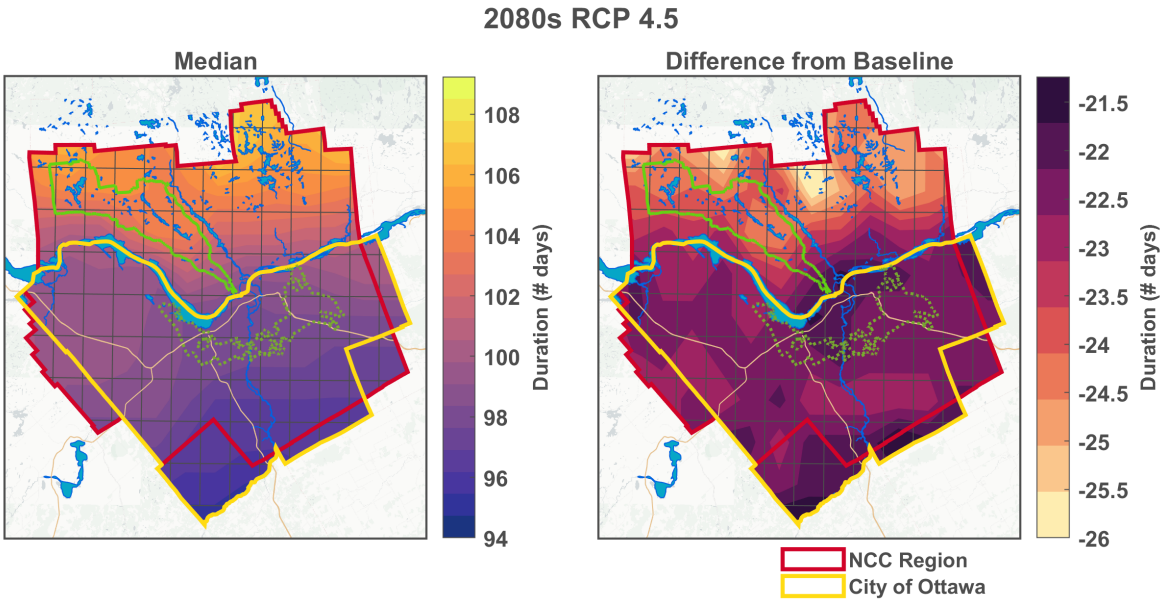


Figure F1.157: Frost Season Length - 2080s RCP 4.5.

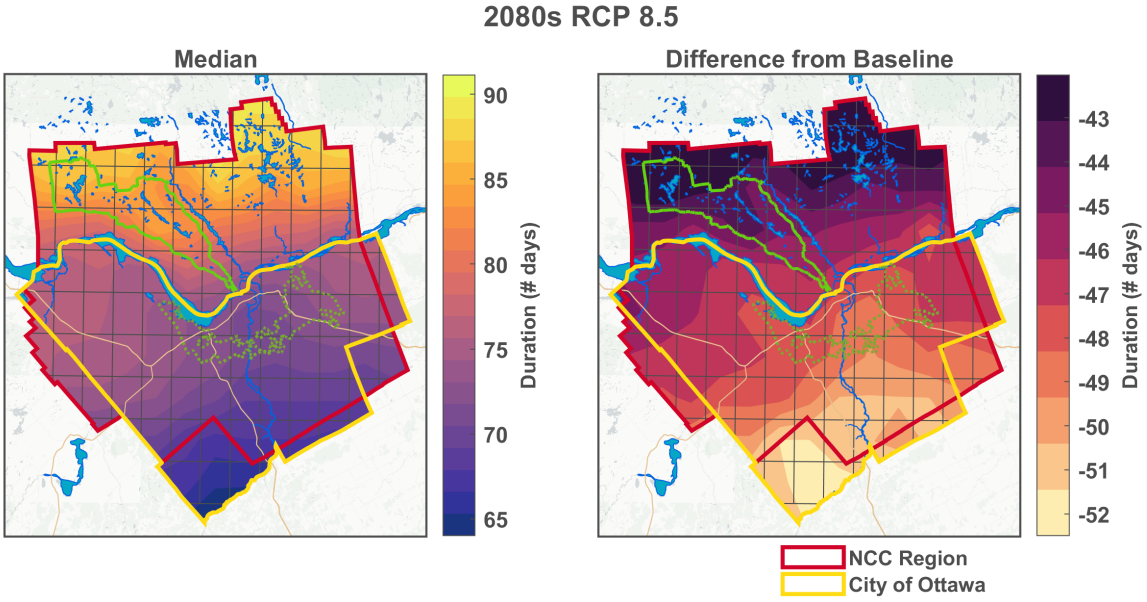


Figure F1.158: Frost Season Length - 2080s RCP 8.5.

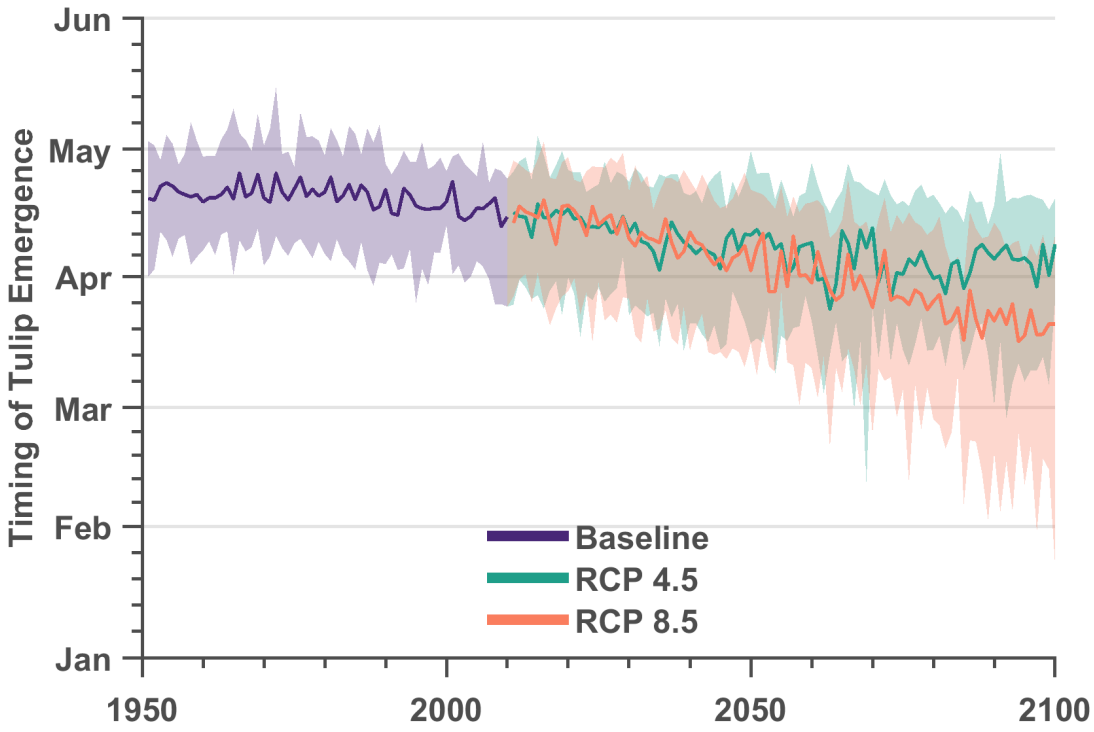


Figure F1.159: Timing of Tulip Emergence.

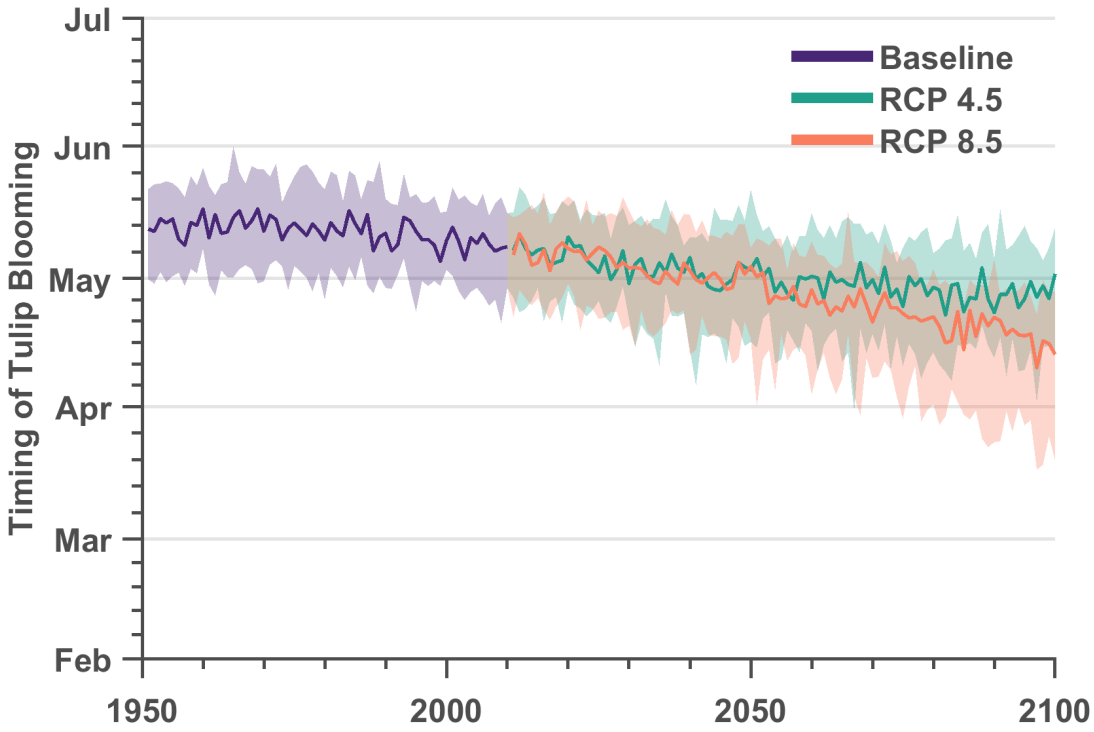


Figure F1.160: Timing of Tulip Blooming.

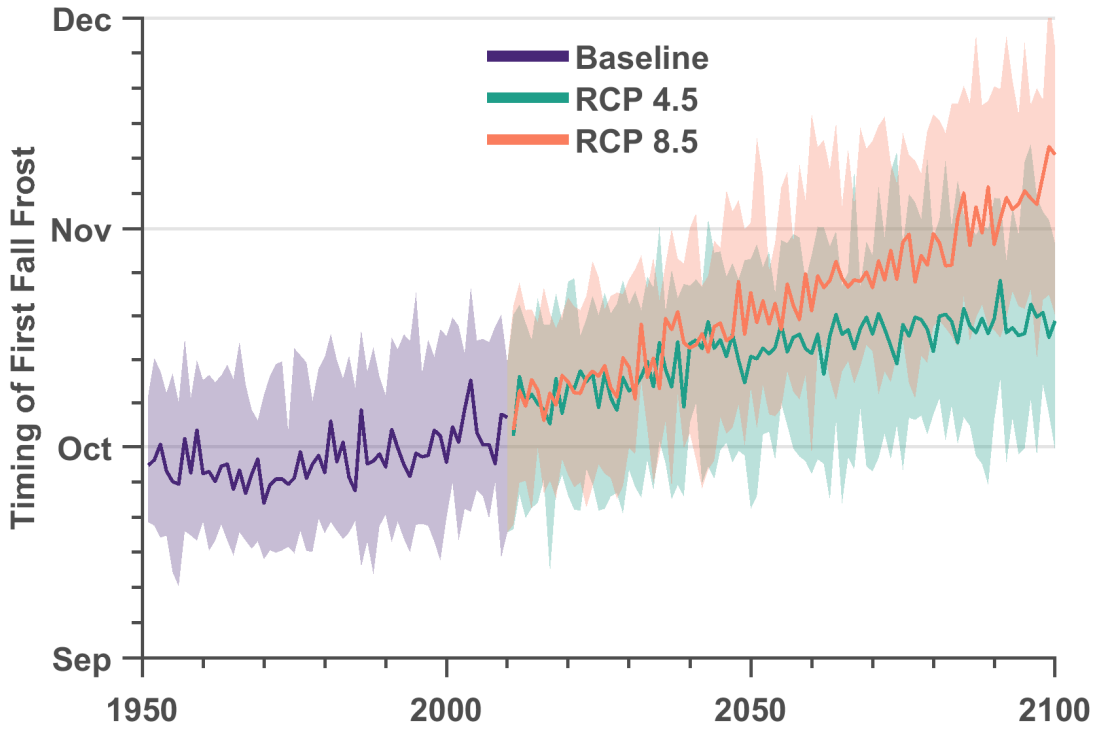


Figure F1.161: Timing of First Fall Frost.

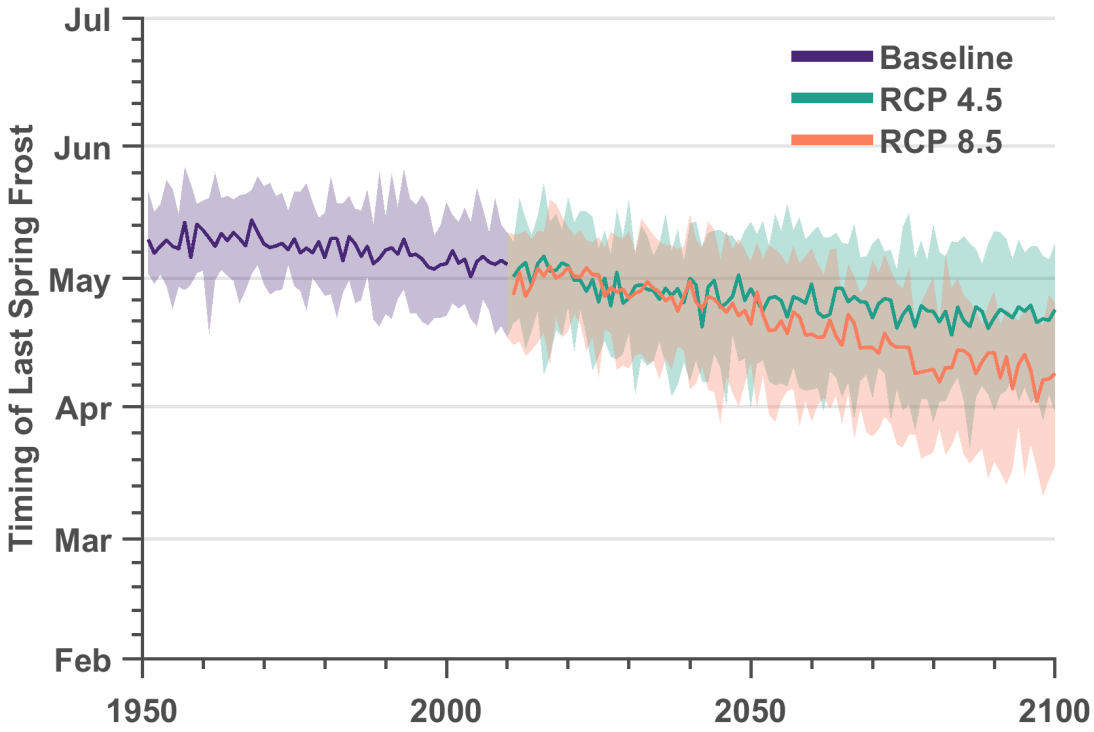


Figure F1.162: Timing of Last Spring Frost.

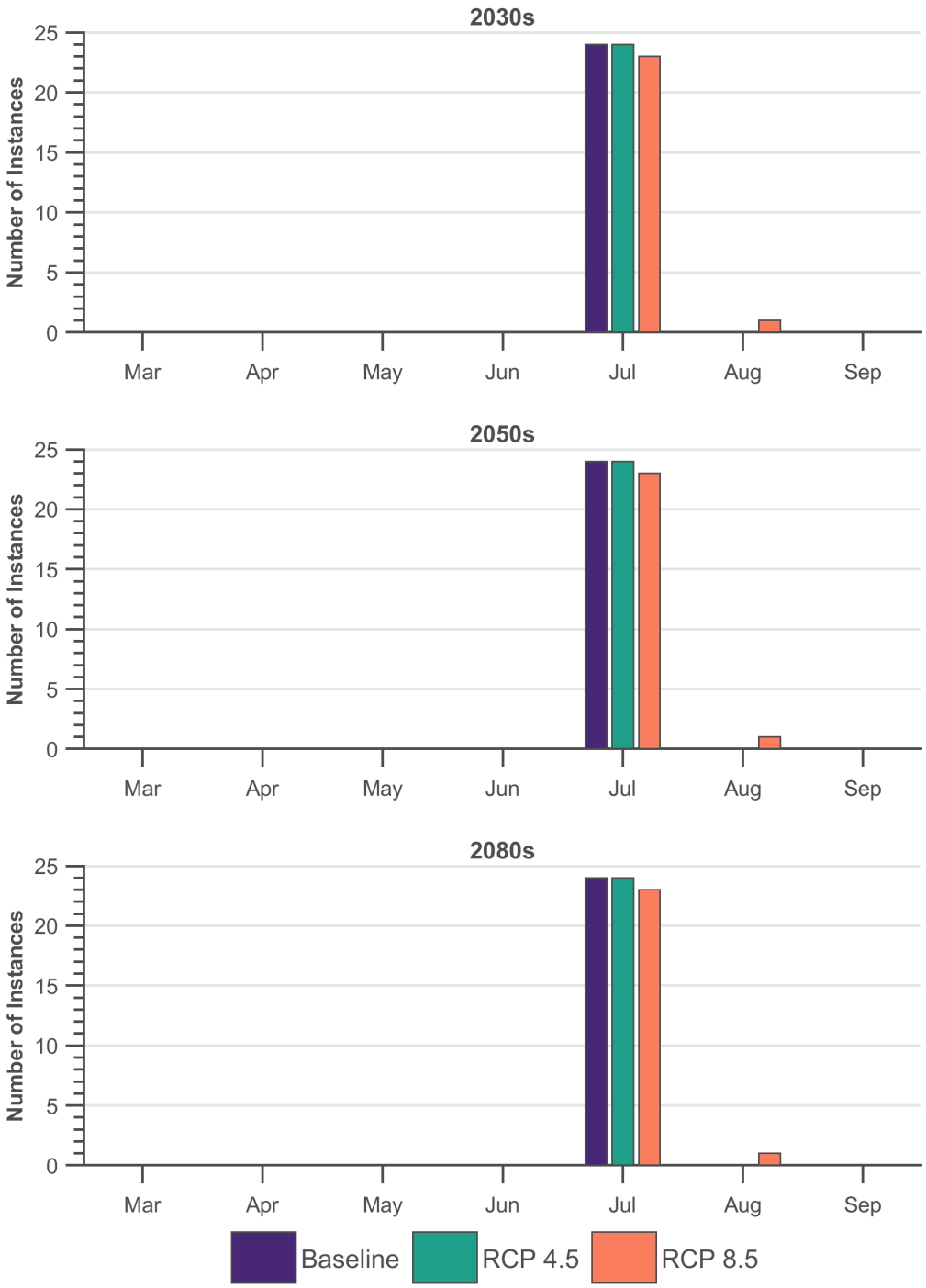


Figure F1.163: Timing of Warmest Month.

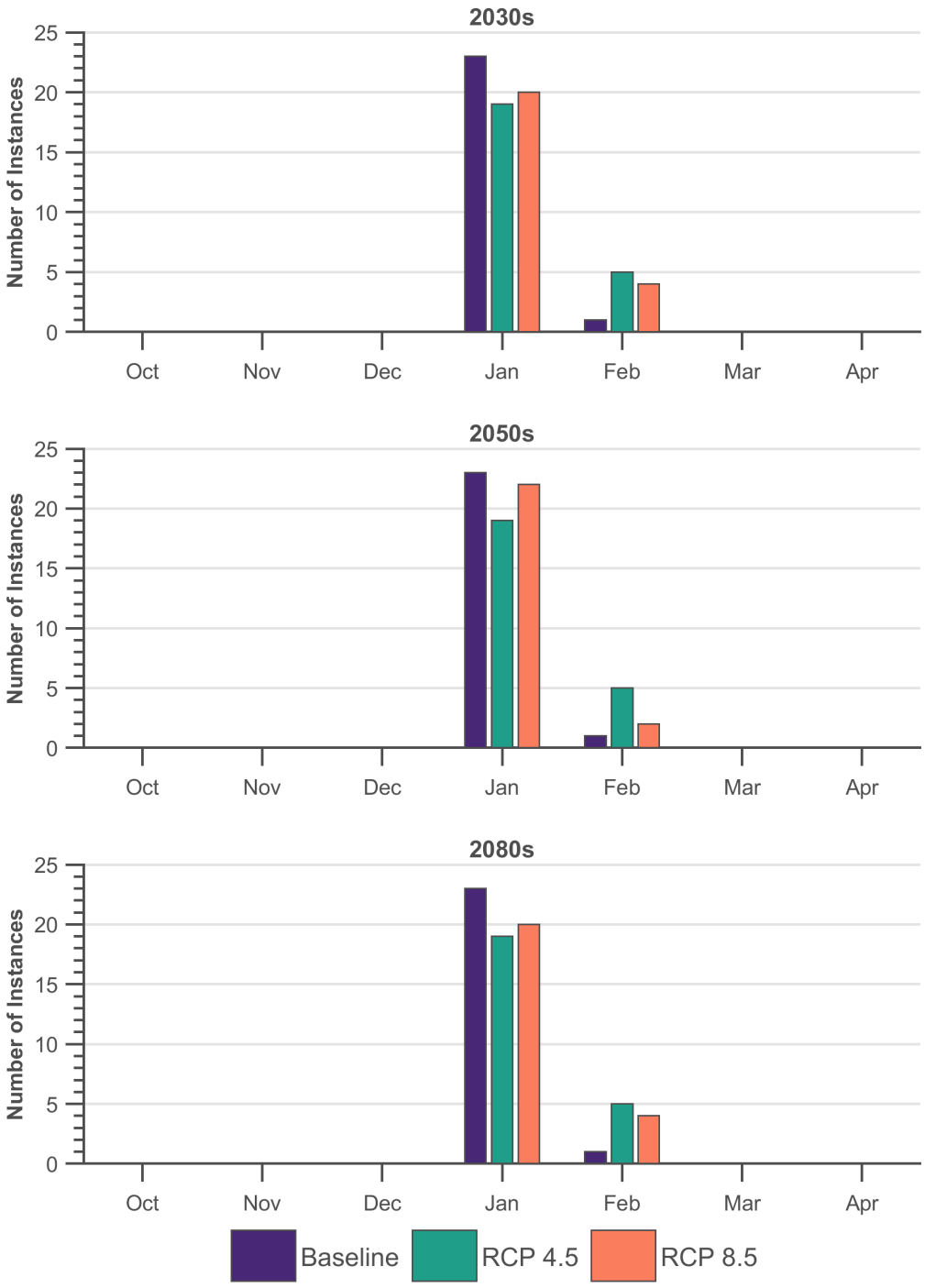


Figure F1.164: Timing of Coldest Month.

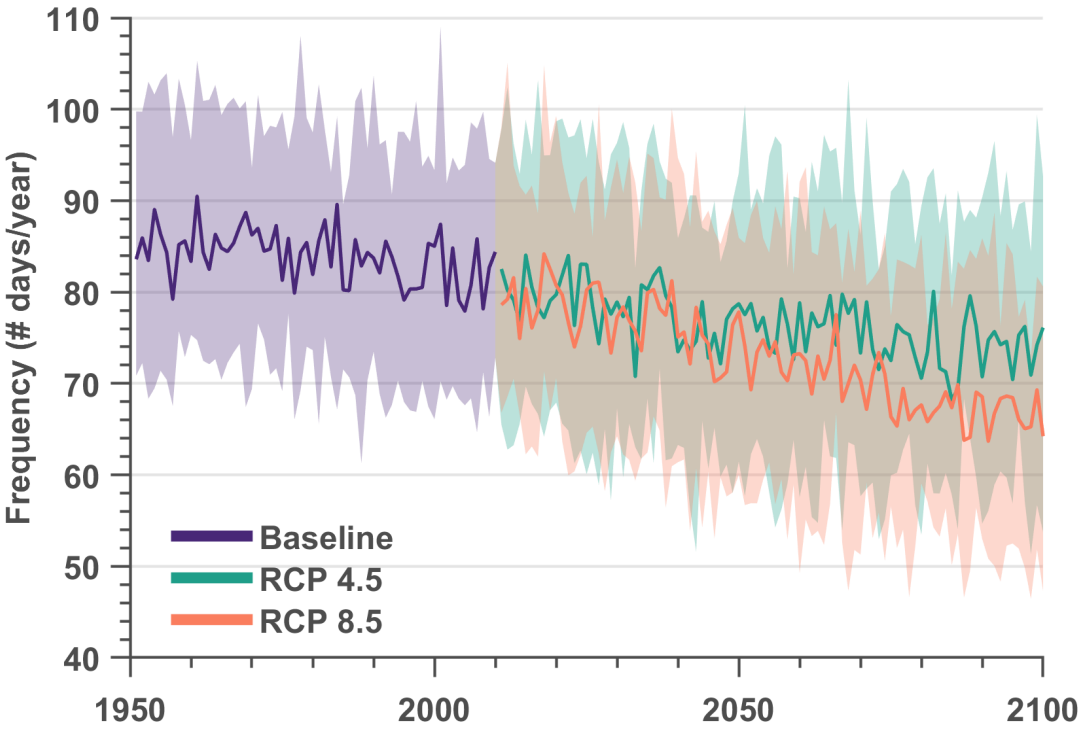


Figure F1.165: Annual Freeze-Thaw Cycles.

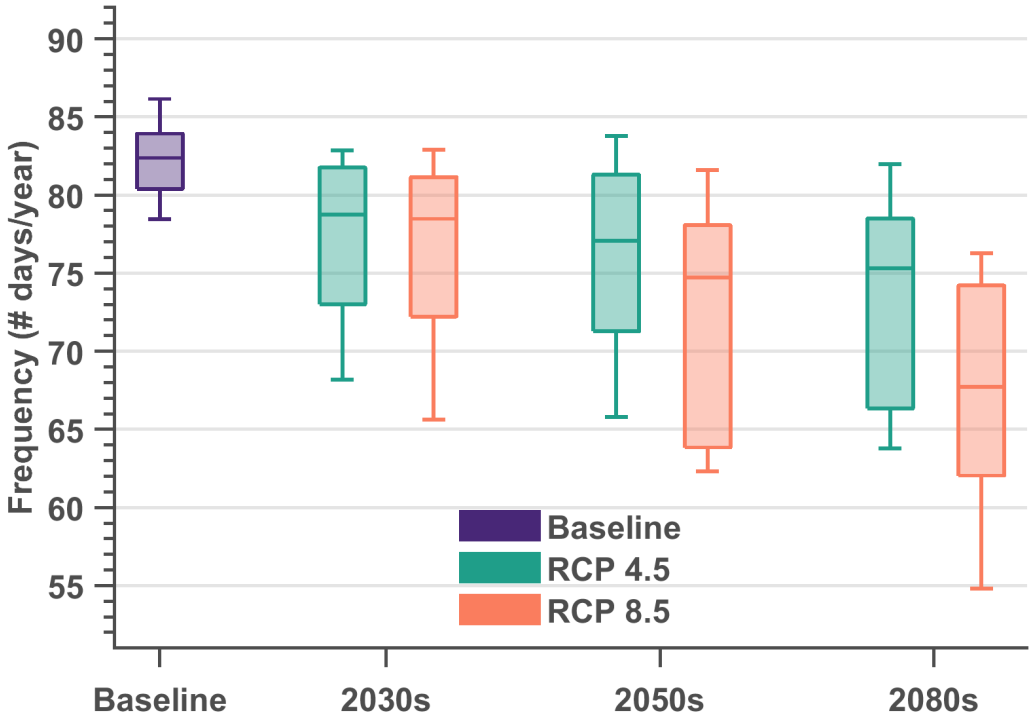


Figure F1.166: Annual Freeze-Thaw Cycles.

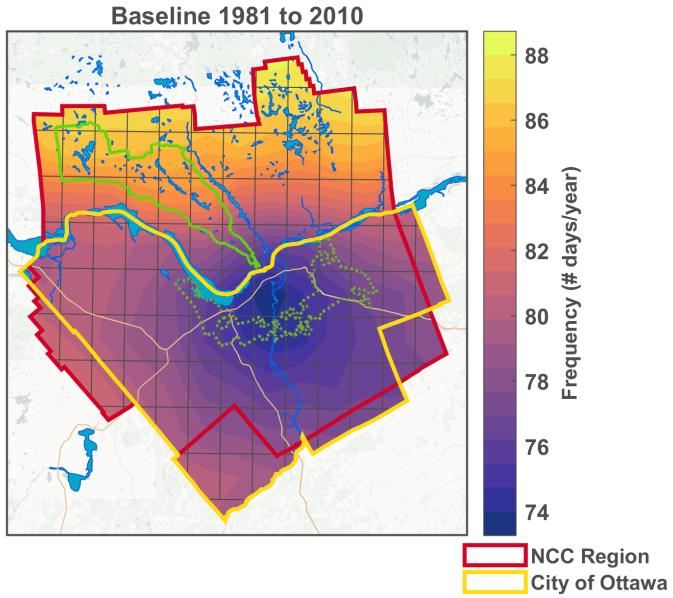


Figure F1.167: Annual Freeze-Thaw Cycles - Baseline.

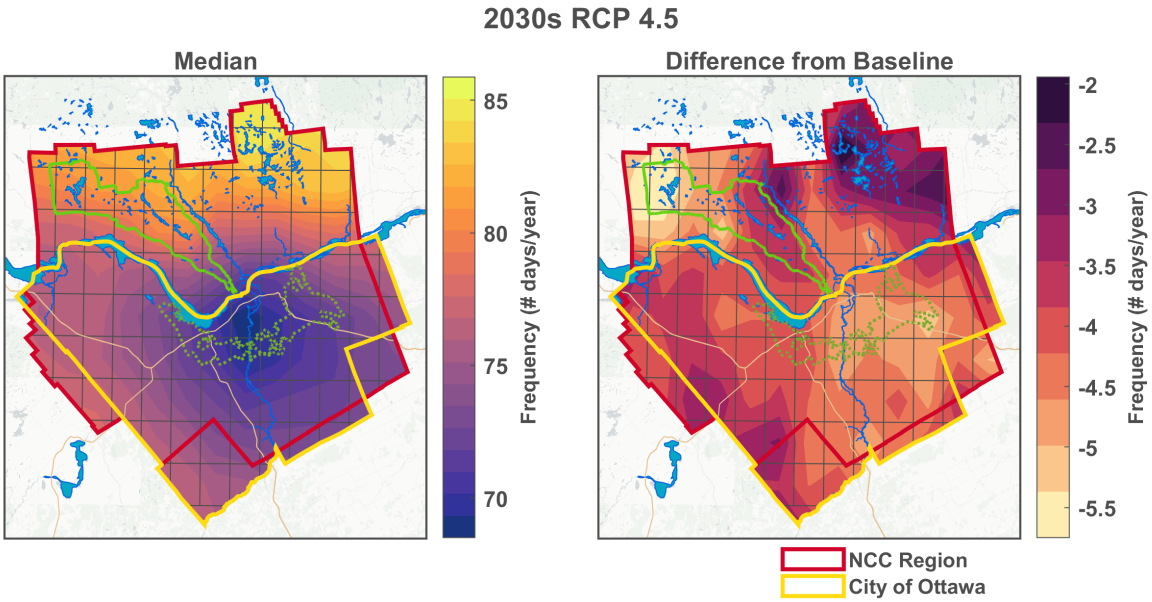


Figure F1.168: Annual Freeze-Thaw Cycles - 2030s RCP 4.5.

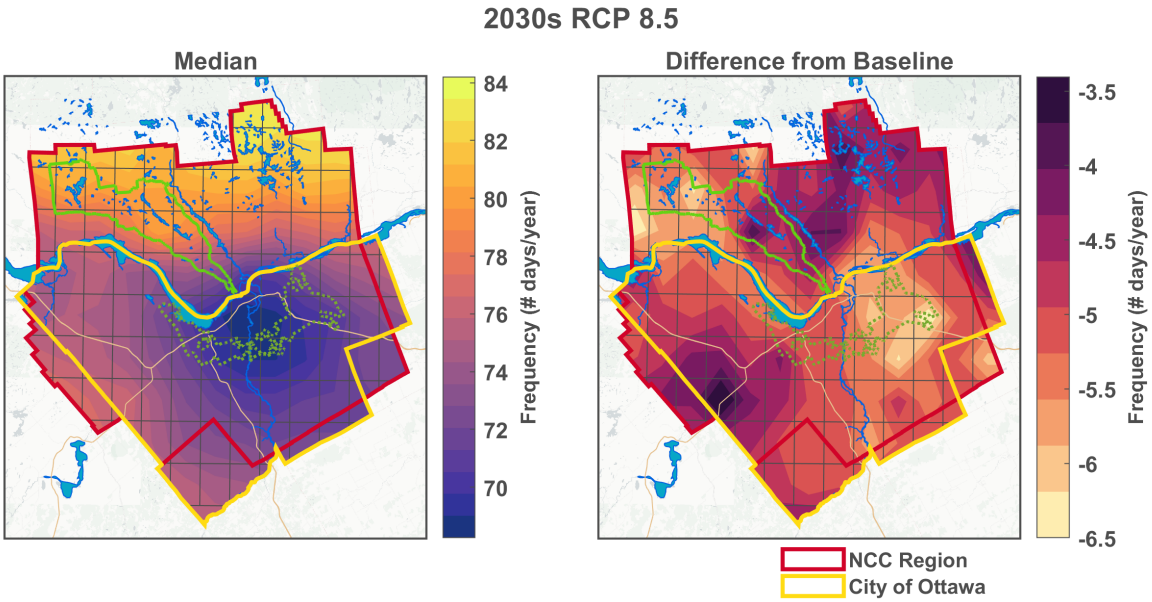


Figure F1.169: Annual Freeze-Thaw Cycles - 2030s RCP 8.5.

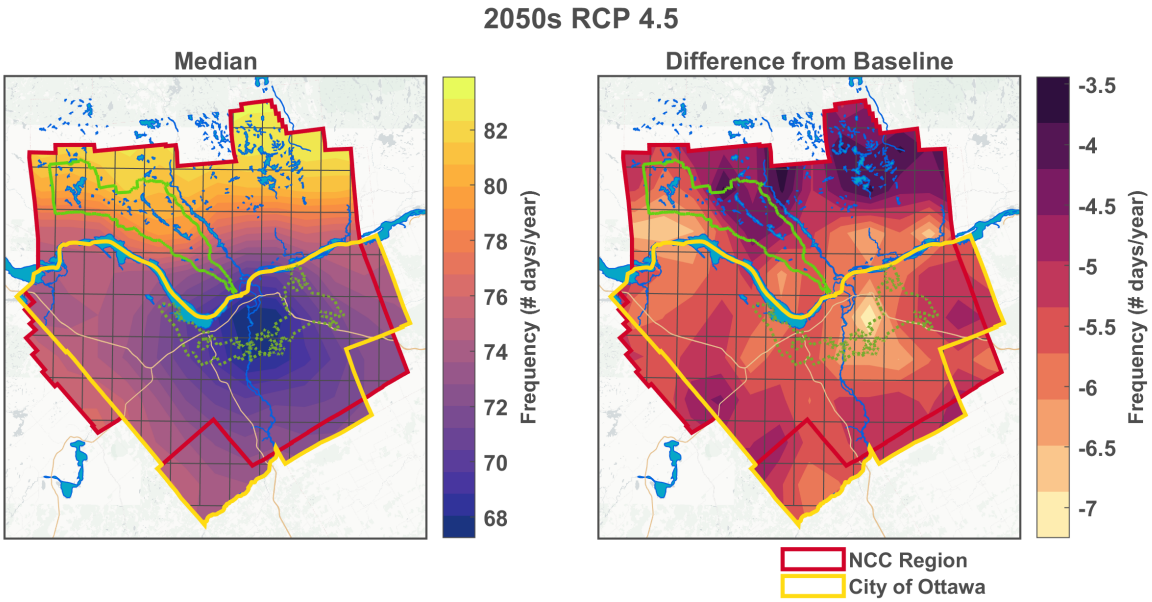


Figure F1.170: Annual Freeze-Thaw Cycles - 2050s RCP 4.5.

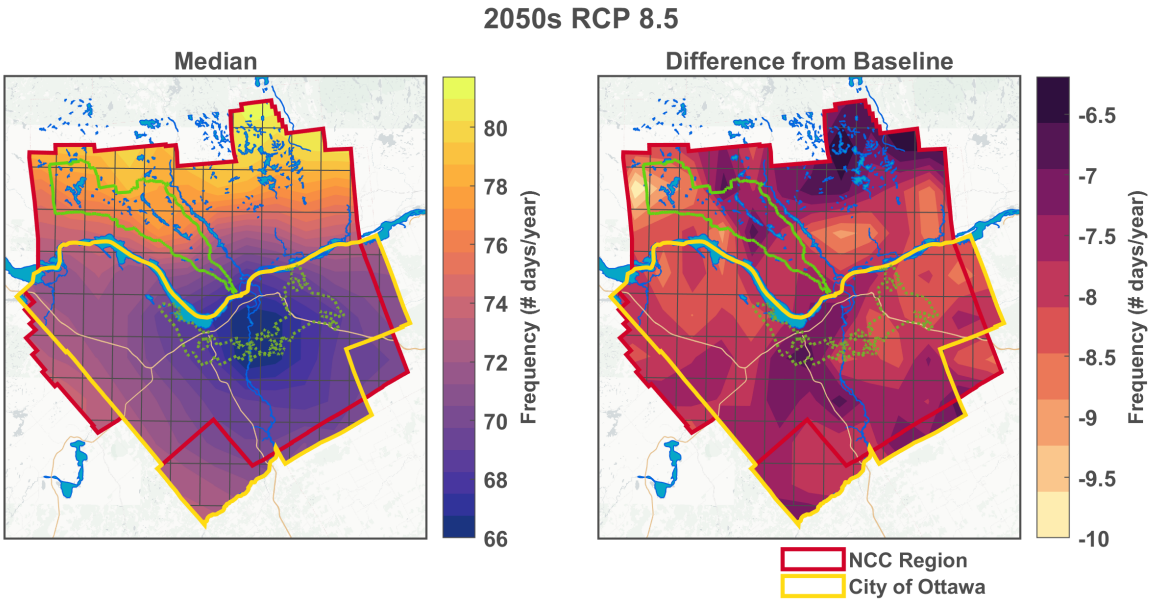


Figure F1.171: Annual Freeze-Thaw Cycles - 2050s RCP 8.5.

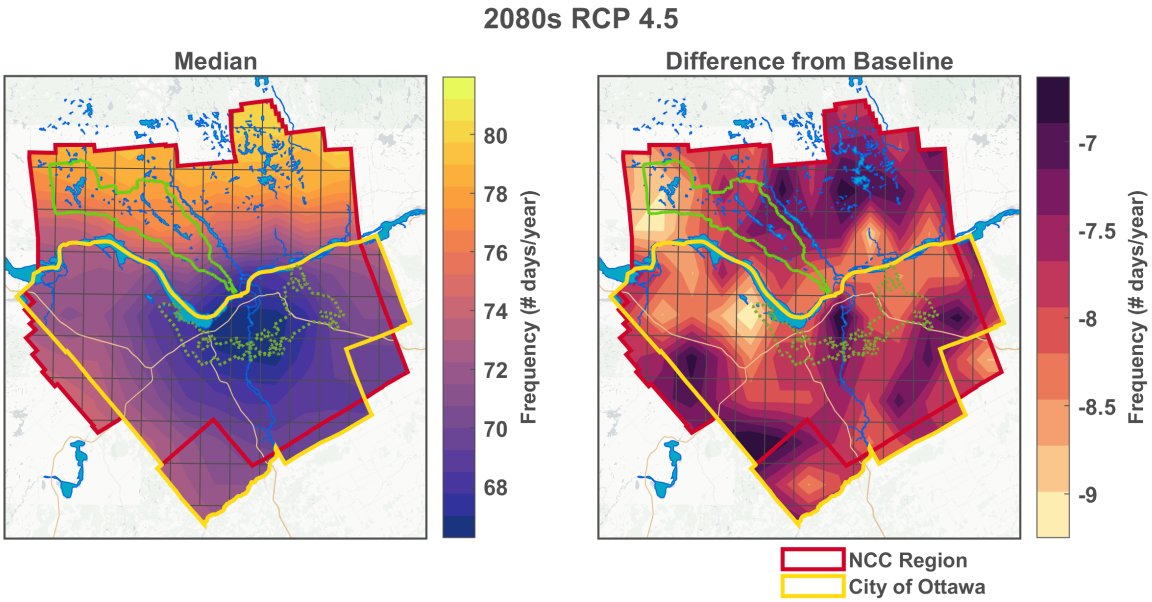


Figure F1.172: Annual Freeze-Thaw Cycles - 2080s RCP 4.5.

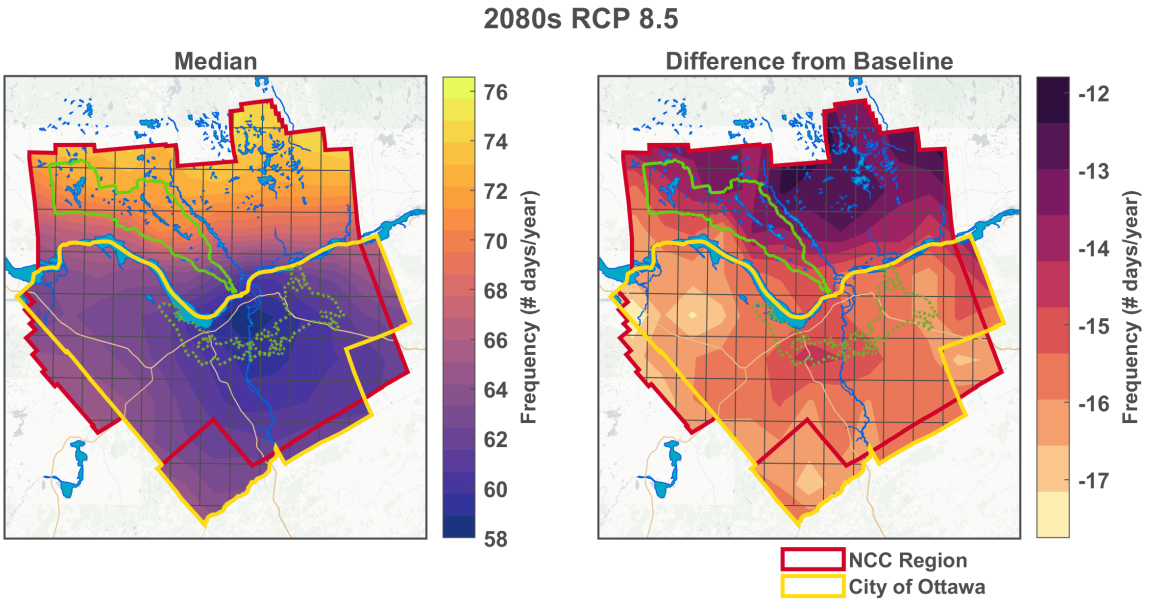


Figure F1.173: Annual Freeze-Thaw Cycles - 2080s RCP 8.5.

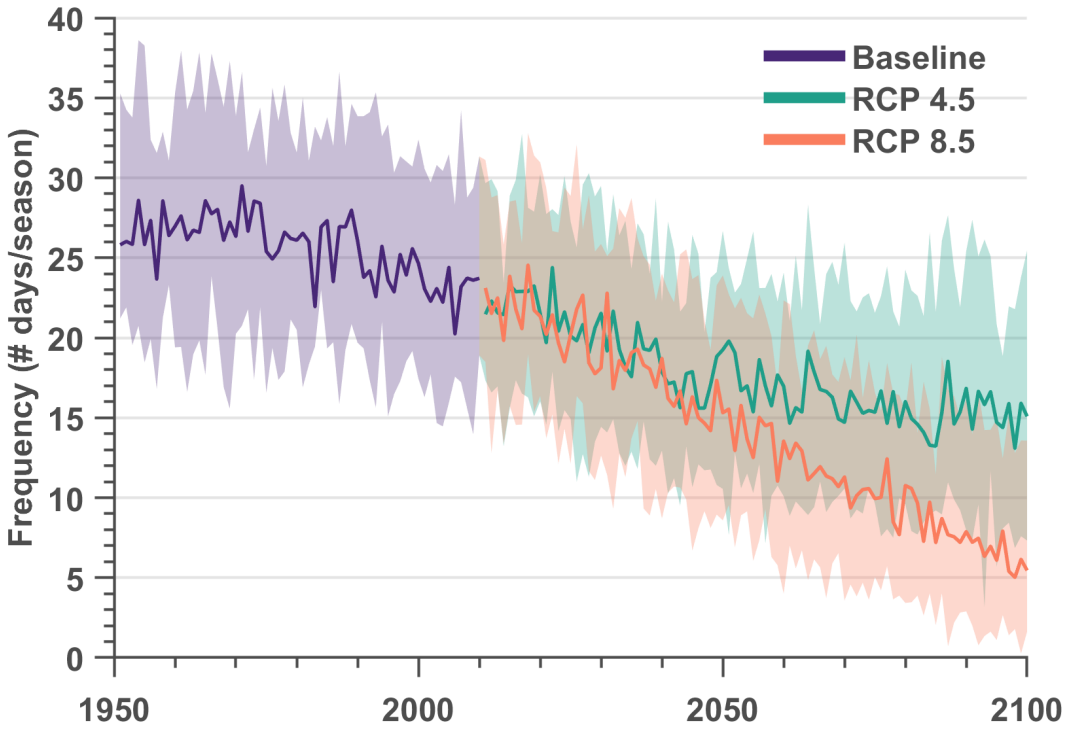


Figure F1.174: Seasonal Freeze-Thaw Cycles - Fall.

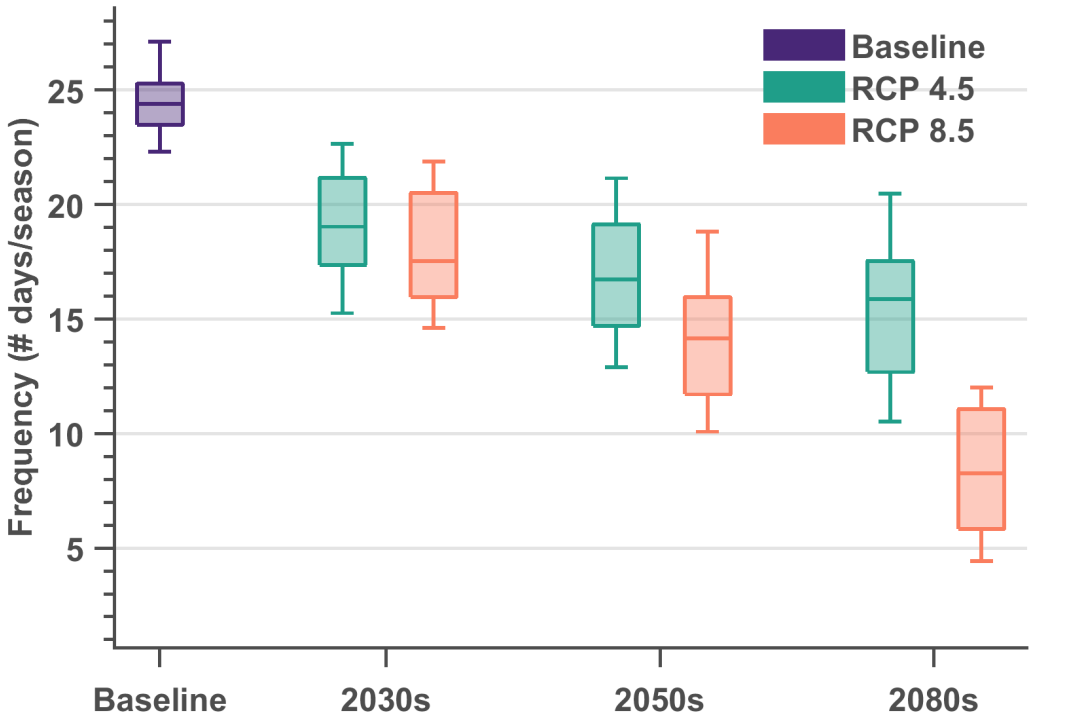


Figure F1.175: Seasonal Freeze-Thaw Cycles - Fall.

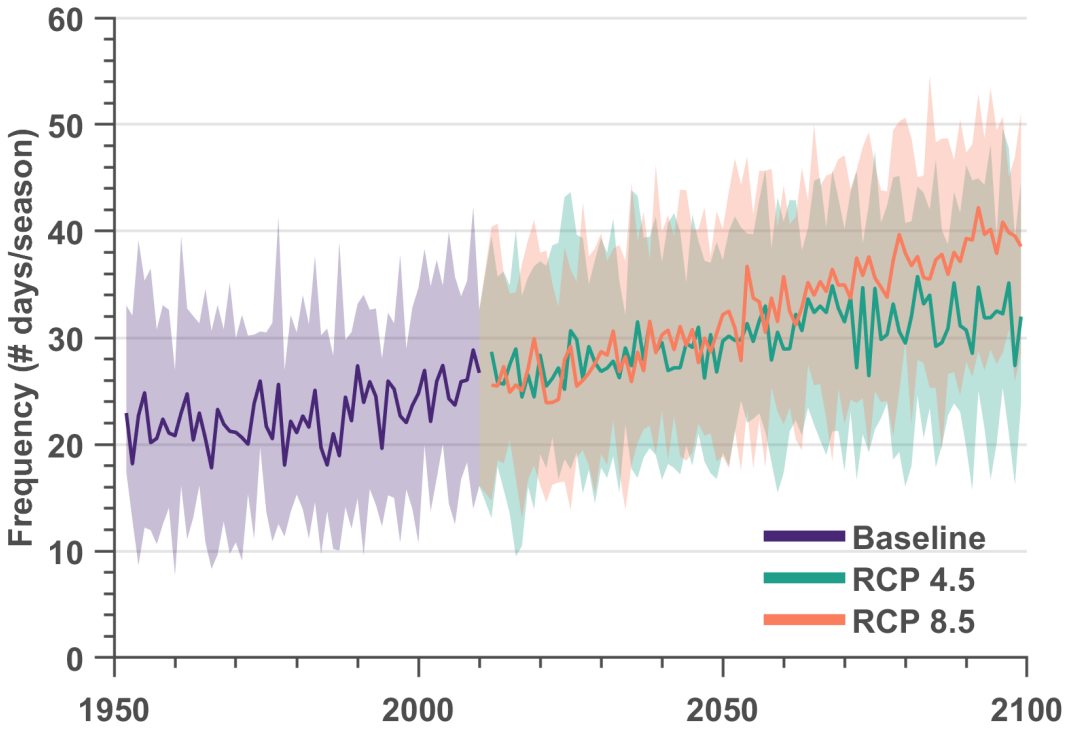


Figure F1.176: Seasonal Freeze-Thaw Cycles - Winter.

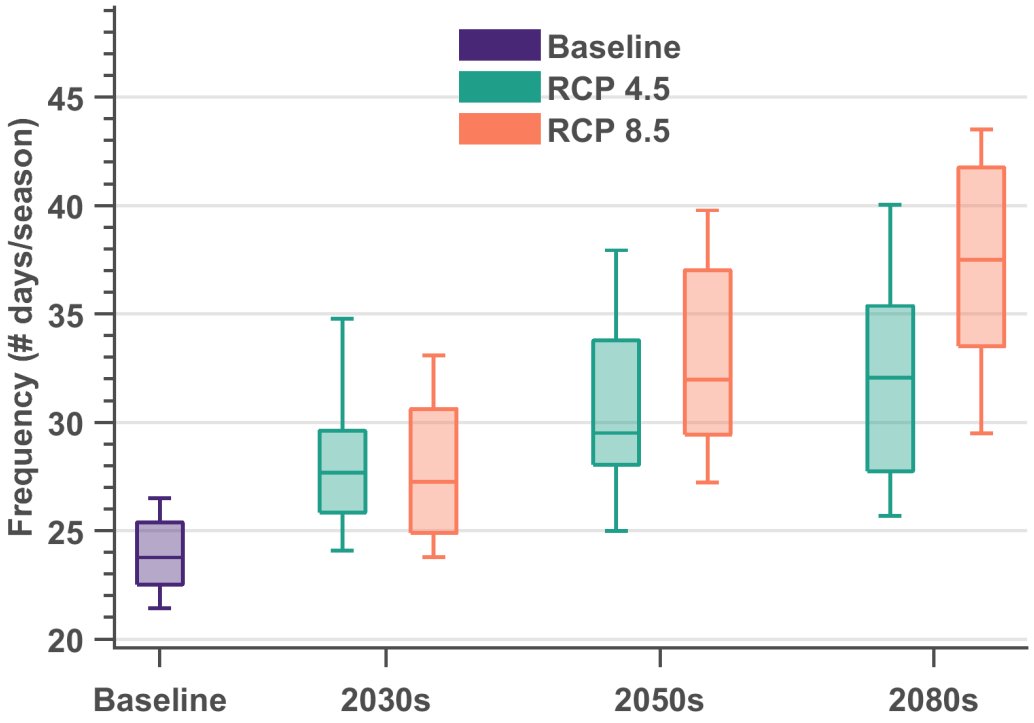


Figure F1.177: Seasonal Freeze-Thaw Cycles - Winter.

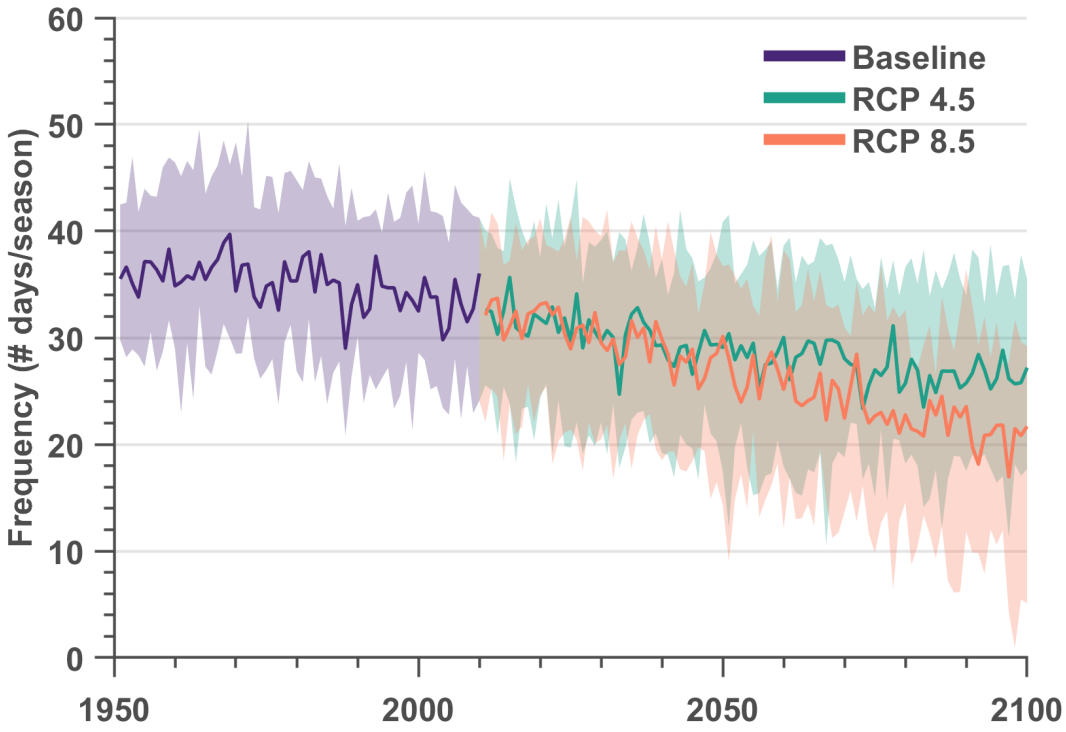


Figure F1.178: Seasonal Freeze-Thaw Cycles - Spring.

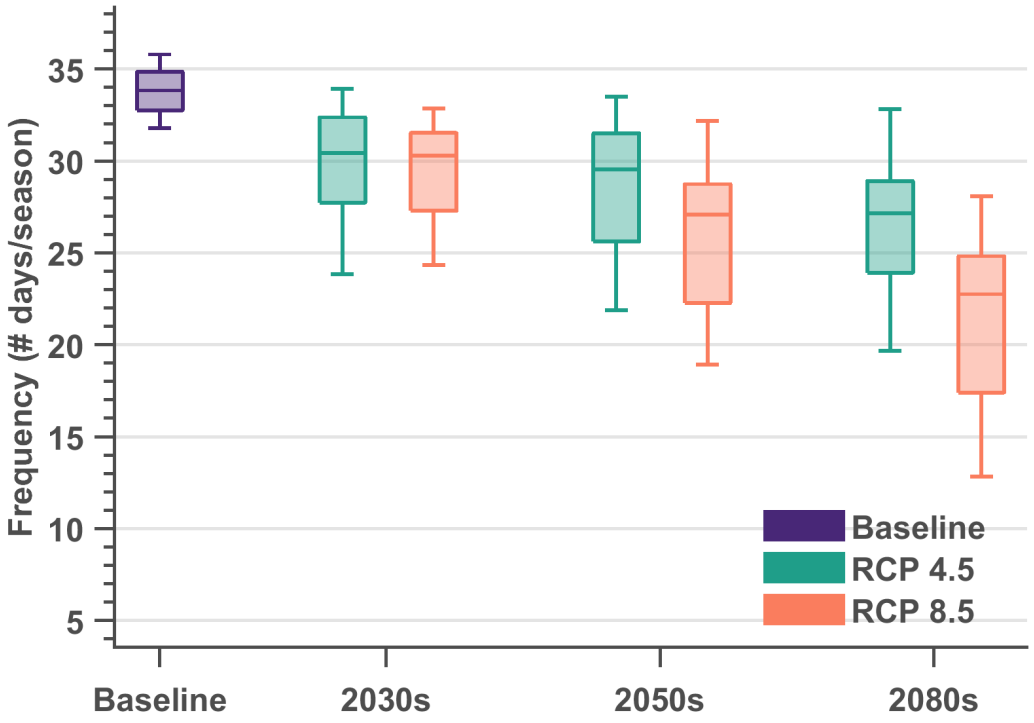


Figure F1.179: Seasonal Freeze-Thaw Cycles - Spring.

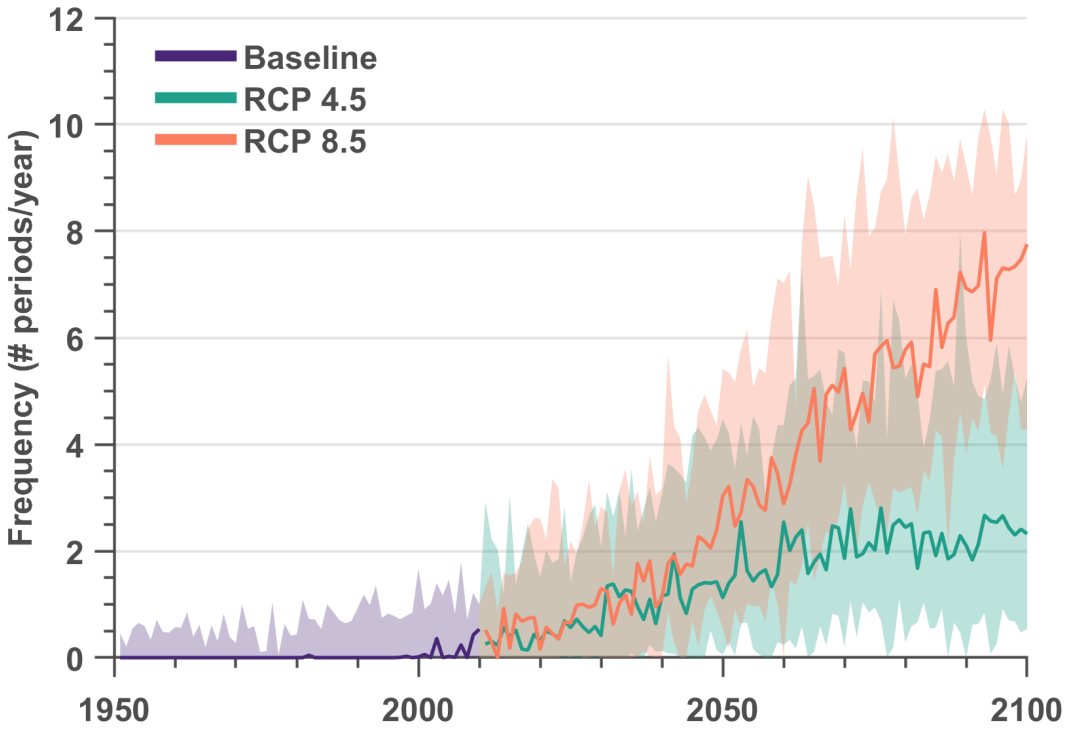


Figure F1.180: Frequency of Warm Spells (Max. Temperature > 31^{o}C and Min. Temperature > 20^{o}C, for 2 Days).

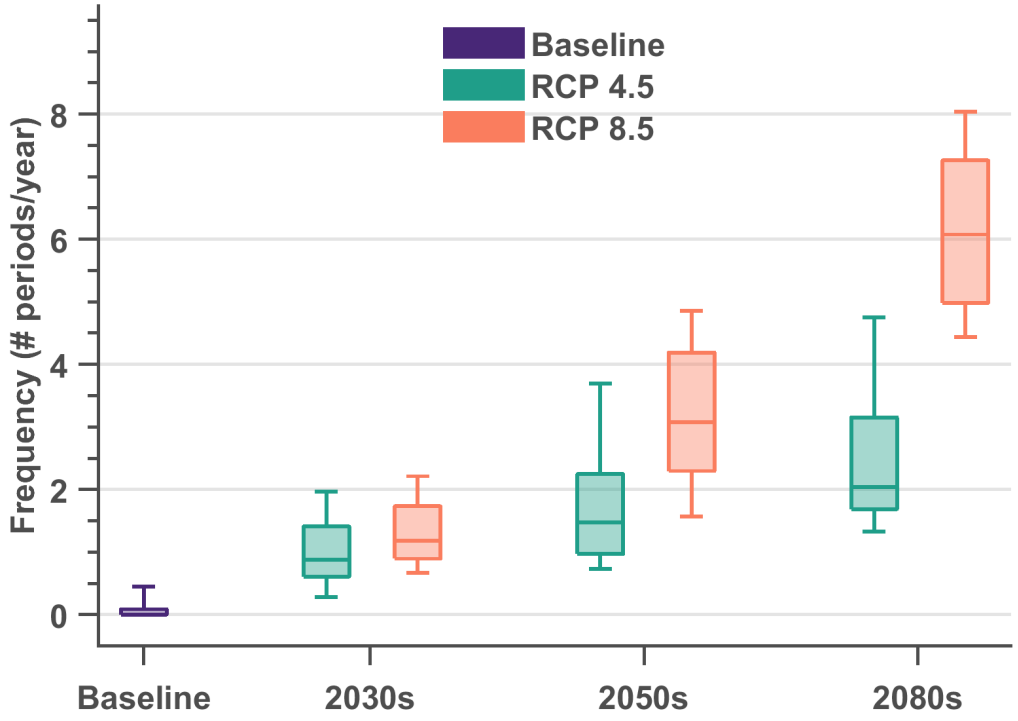


Figure F1.181: Frequency of Warm Spells (Max. Temperature > 31^{o}C and Min. Temperature > 20^{o}C, for 2 Days).

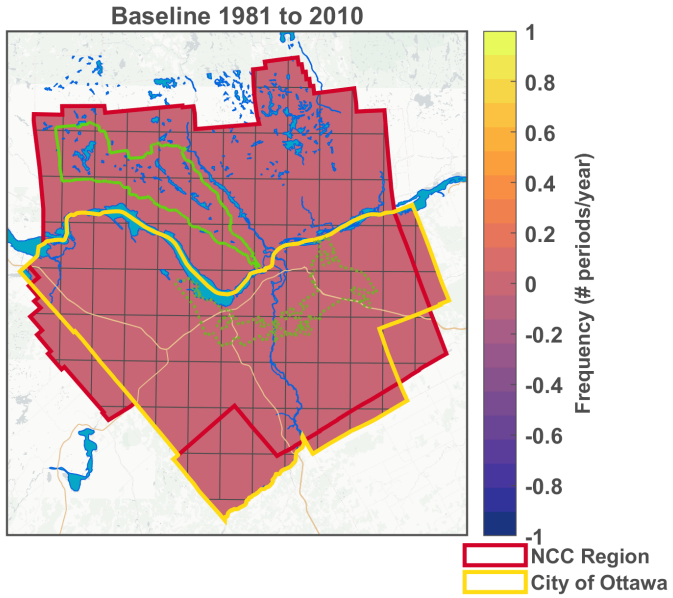


Figure F1.182: Frequency of Warm Spells (Max. Temperature $> 31^{o}$C and Min. Temperature $> 20^{o}$C, for 2 Days) - Baseline.

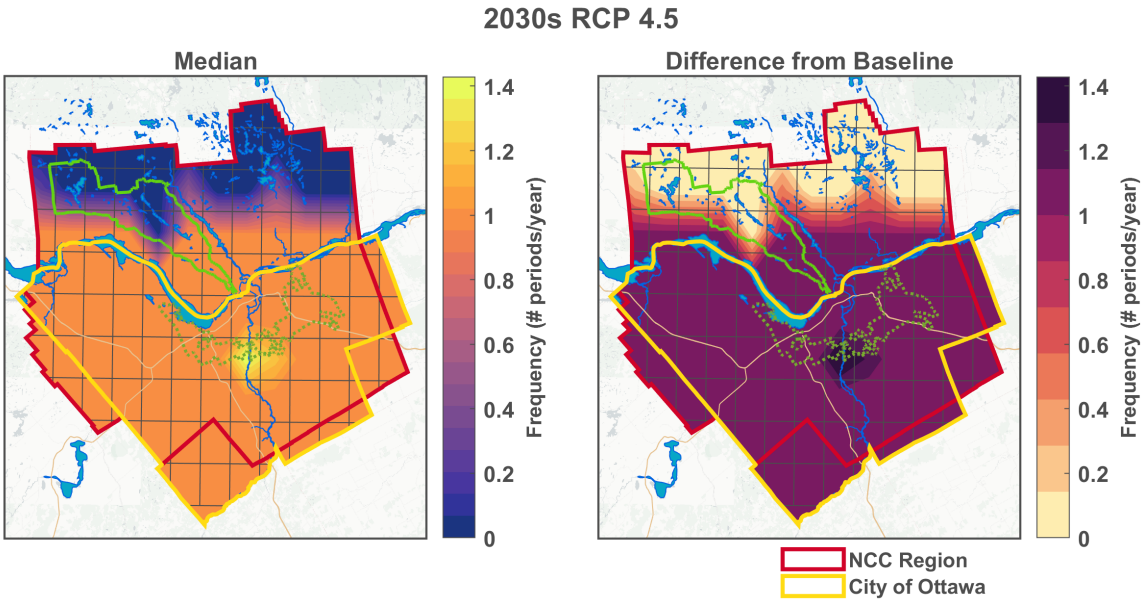


Figure F1.183: Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2030s RCP 4.5.

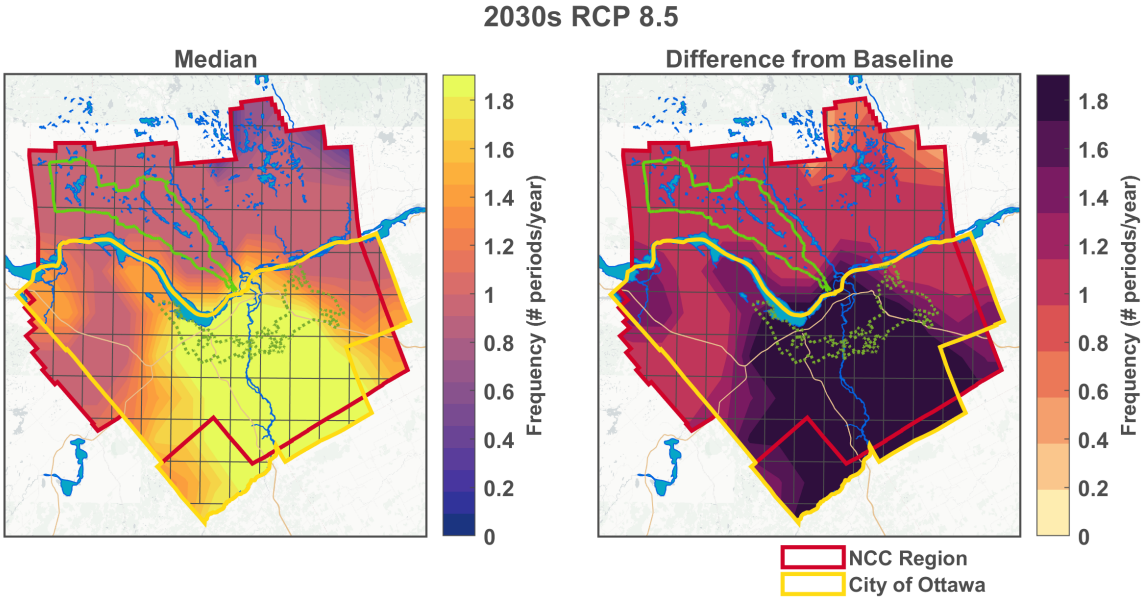


Figure F1.184: Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2030s RCP 8.5.

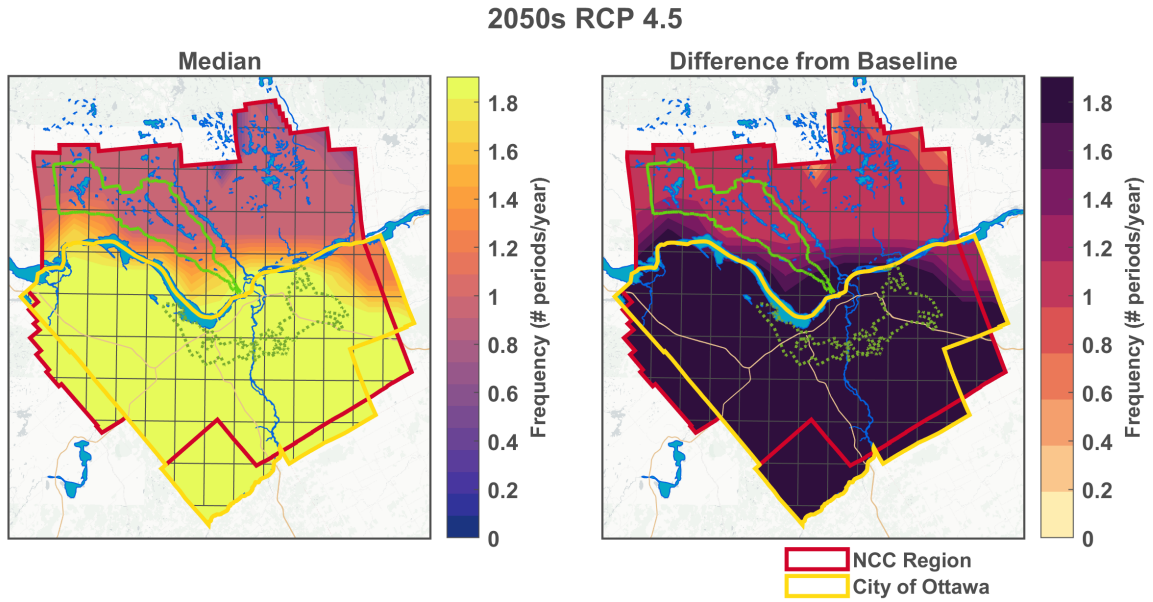


Figure F1.185: Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2050s RCP 4.5.

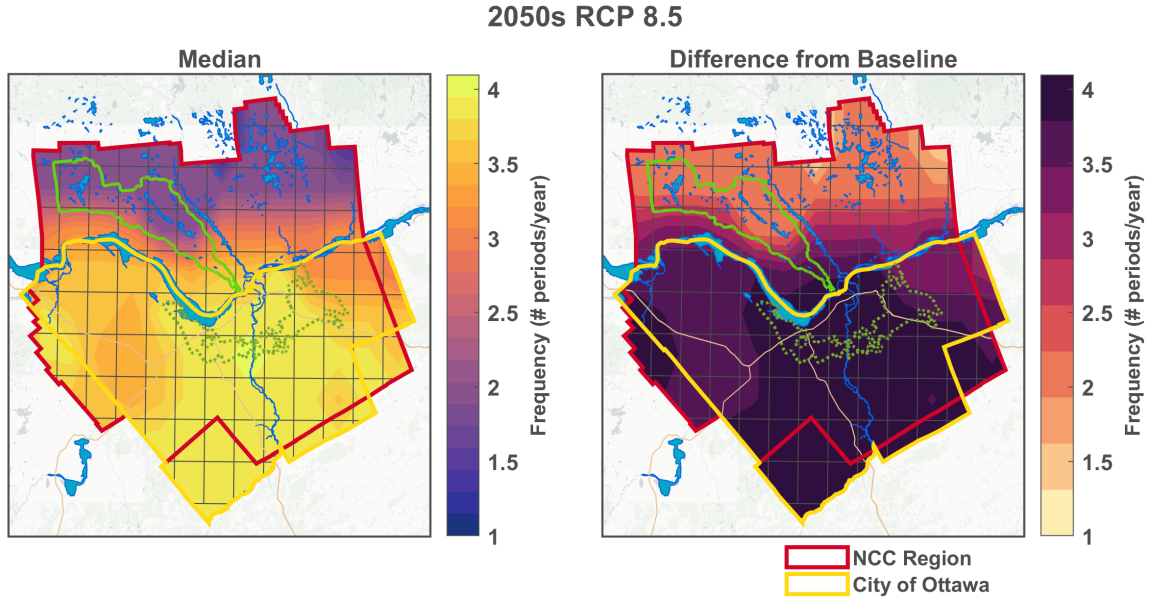


Figure F1.186: Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2050s RCP 8.5.

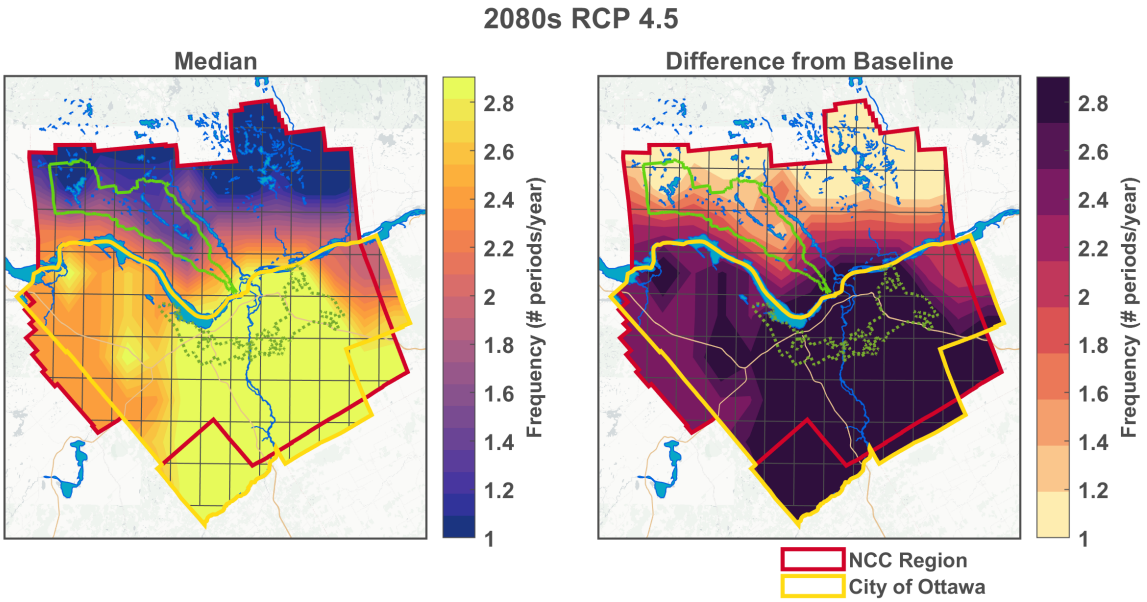


Figure F1.187: Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2080s RCP 4.5.

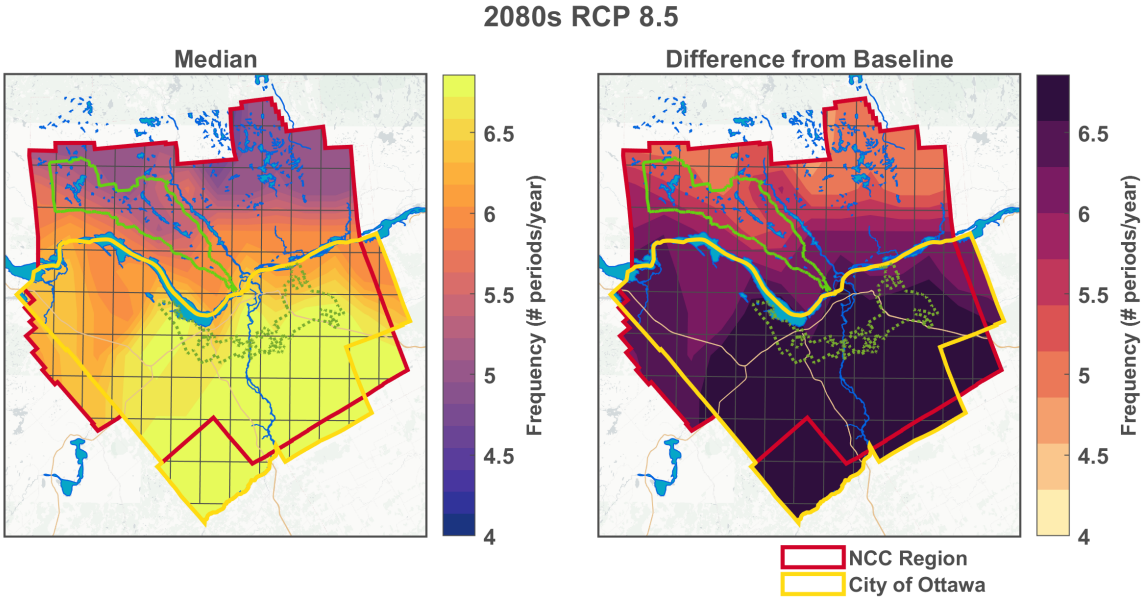


Figure F1.188: Frequency of Warm Spells (Max. Temperature > 31°C and Min. Temperature > 20°C, for 2 Days) - 2080s RCP 8.5.

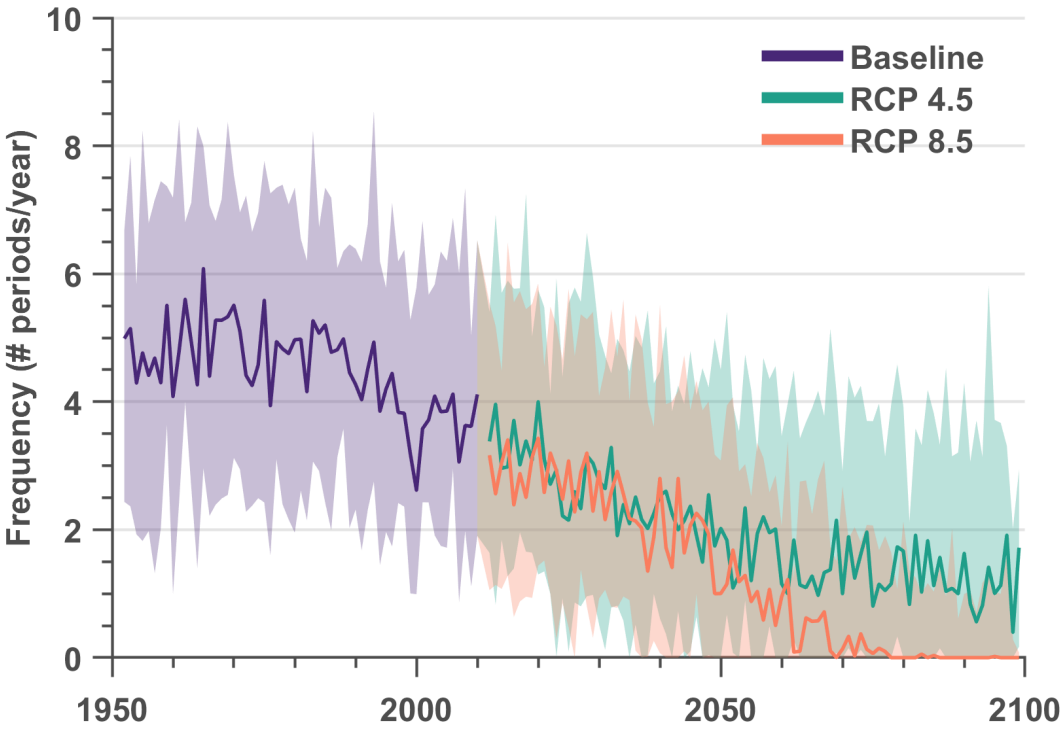


Figure F1.189: Frequency of Cold Spells (Max. Temperature <= -10°C for 5 Days).

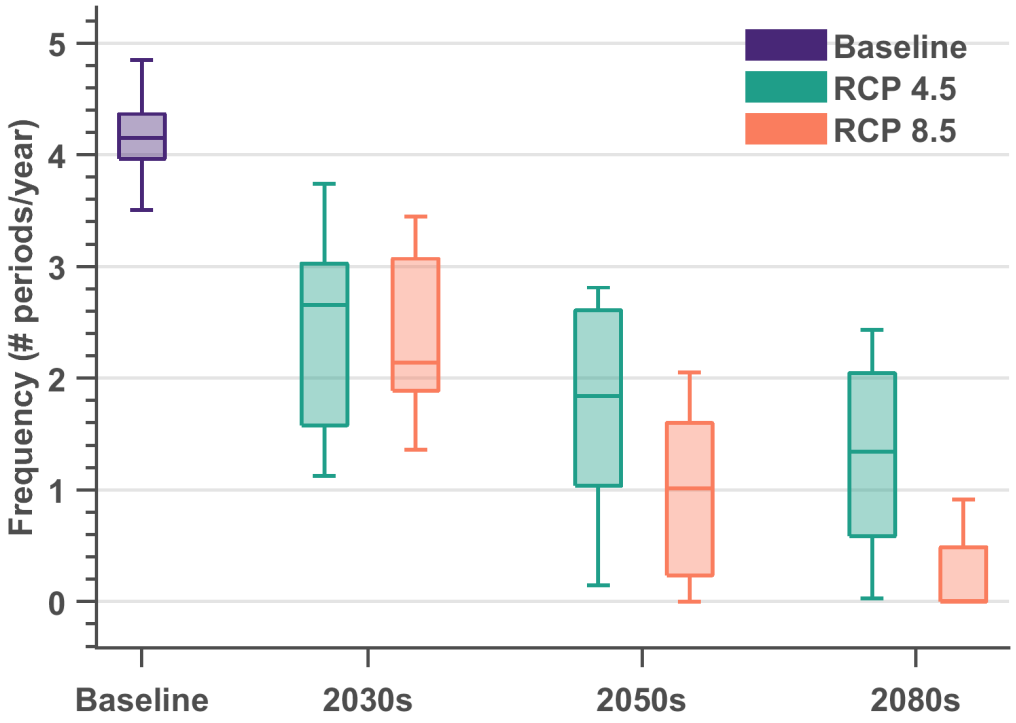


Figure F1.190: Frequency of Cold Spells (Max. Temperature <= -10°C for 5 Days).

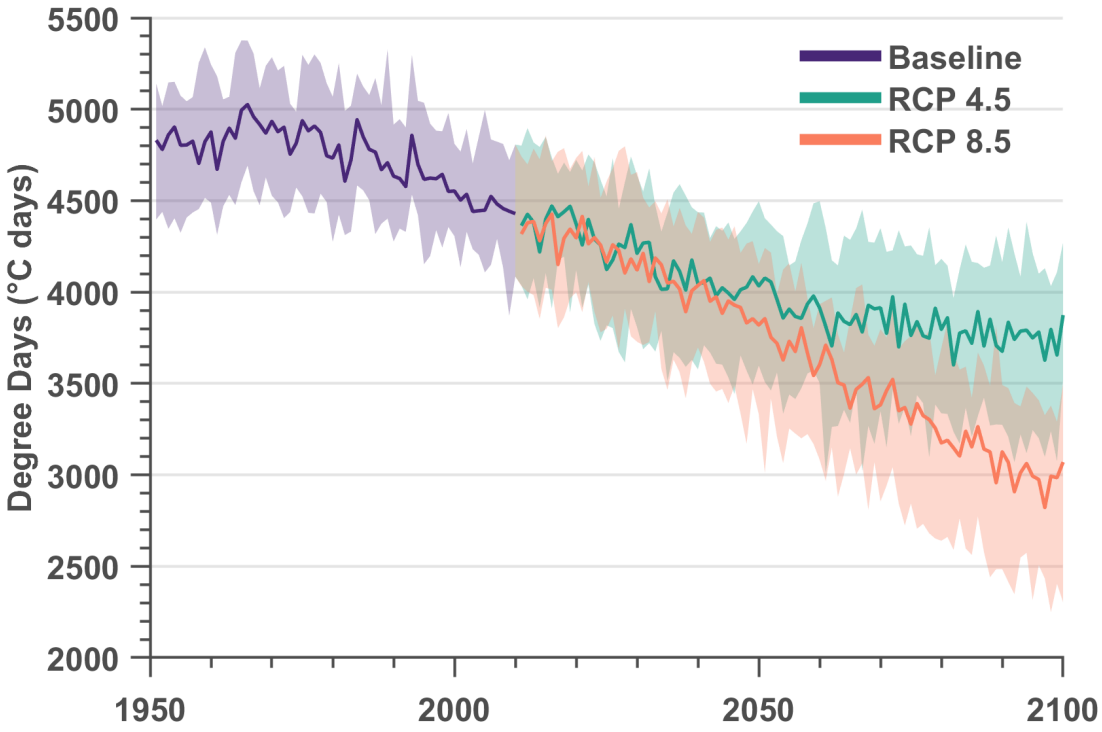


Figure F1.191: Heating Degree Days (18°C).

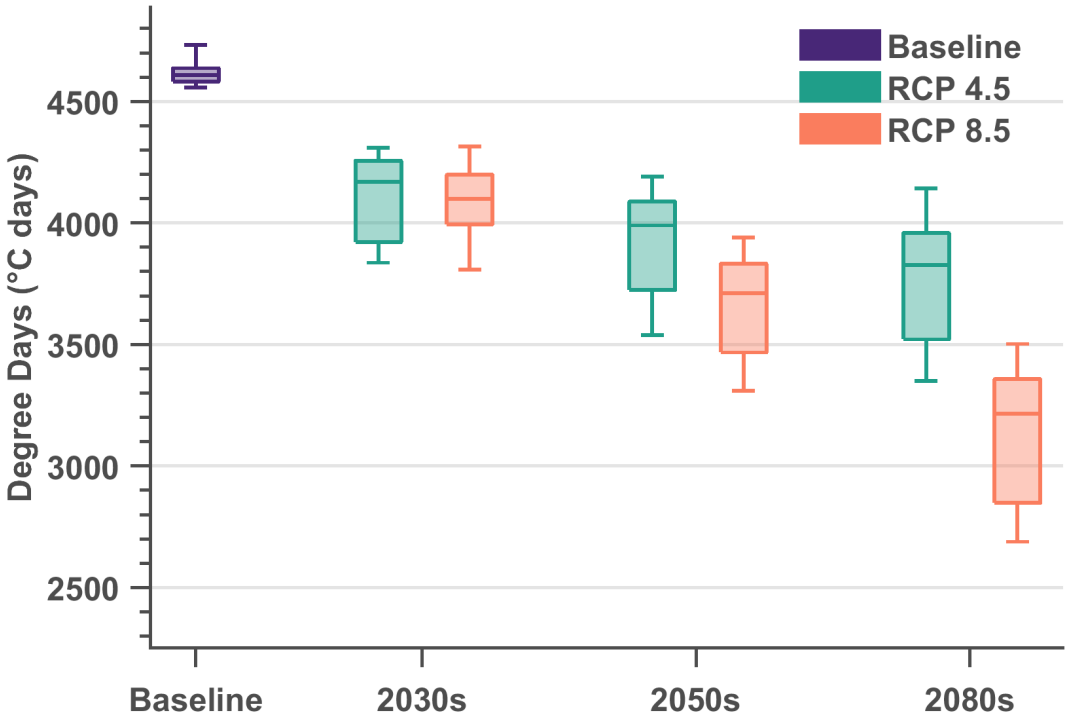


Figure F1.192: Heating Degree Days (18°C).

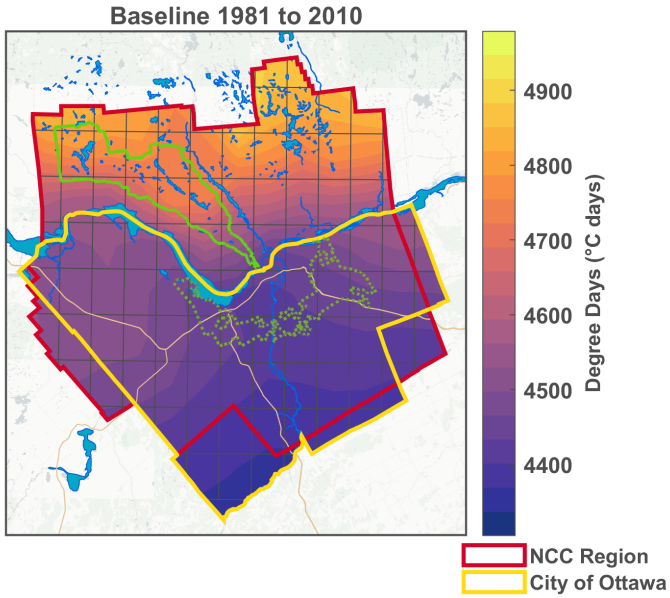


Figure F1.193: Heating Degree Days (18°C).

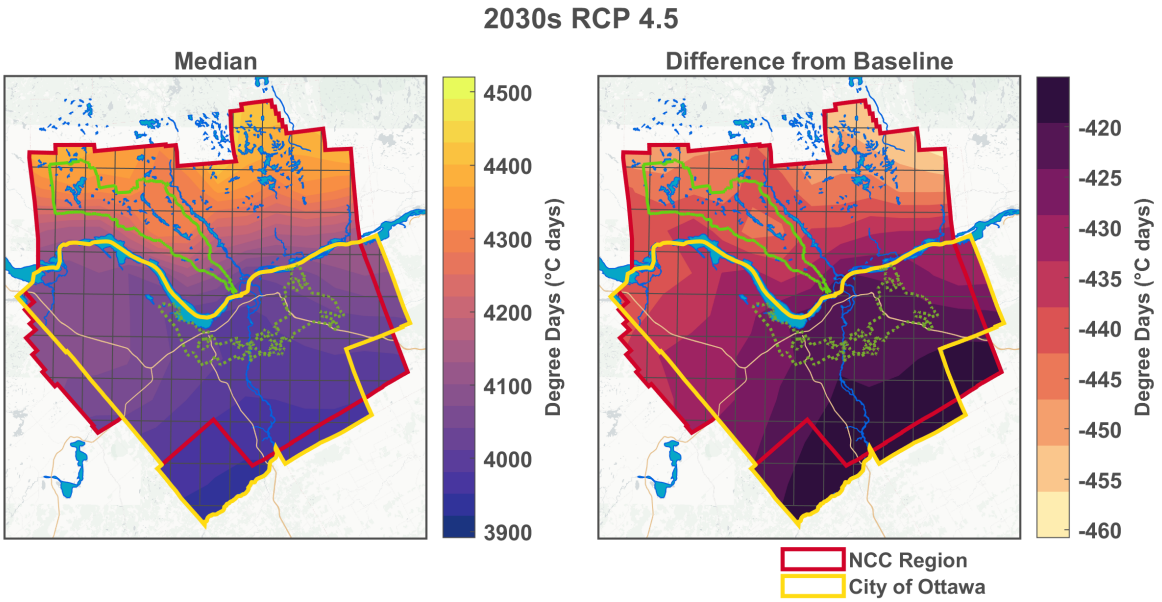


Figure F1.194: Heating Degree Days (18°C).

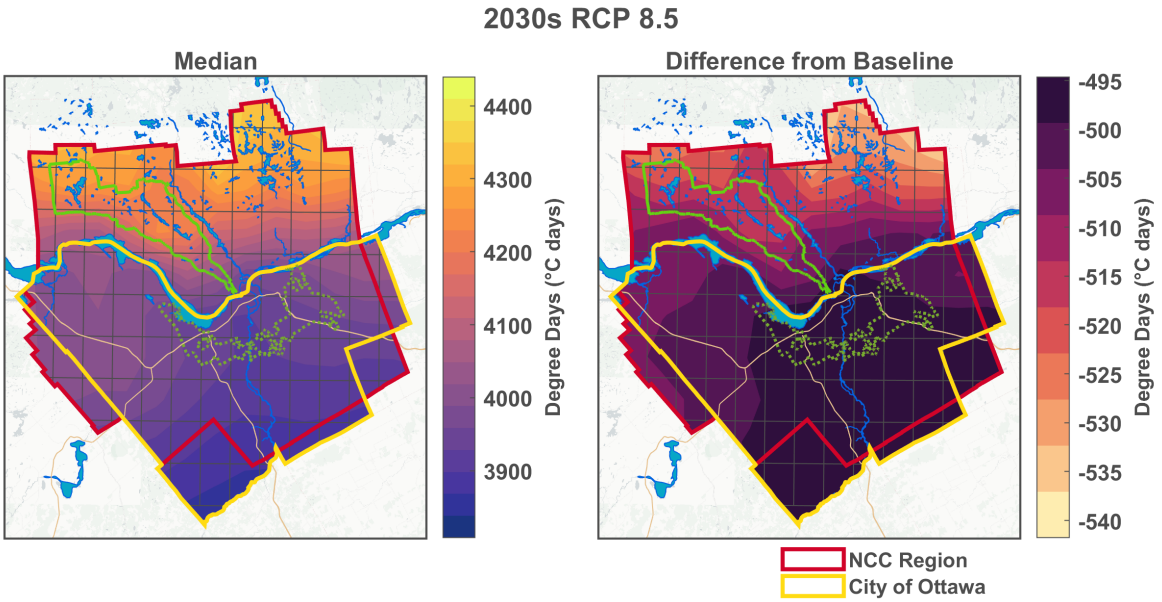


Figure F1.195: Heating Degree Days (18°C).

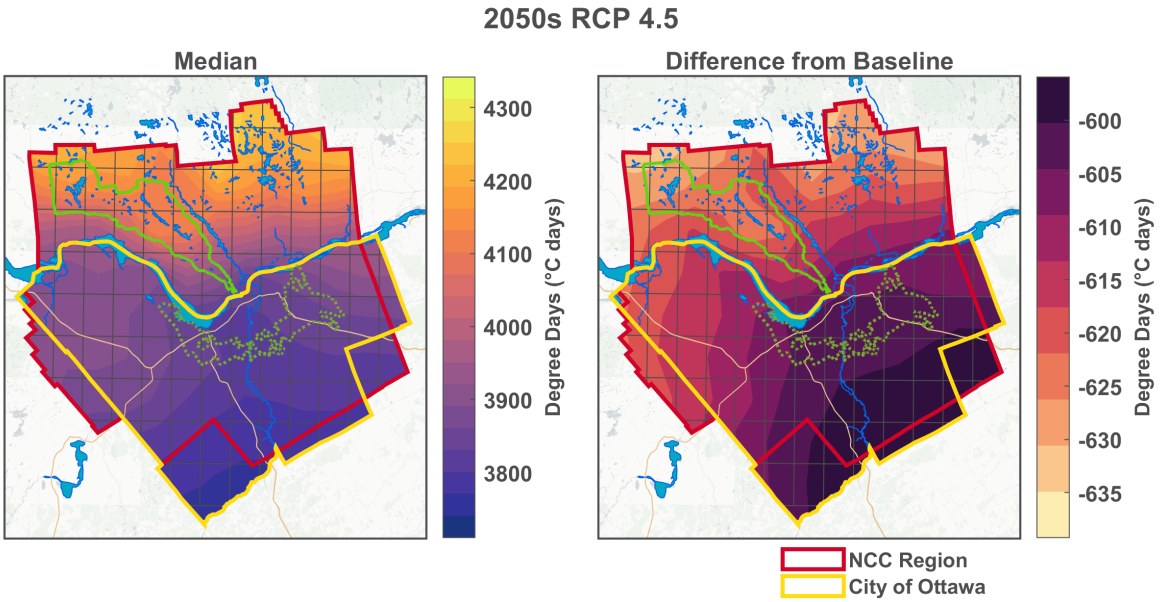


Figure F1.196: Heating Degree Days (18°C).

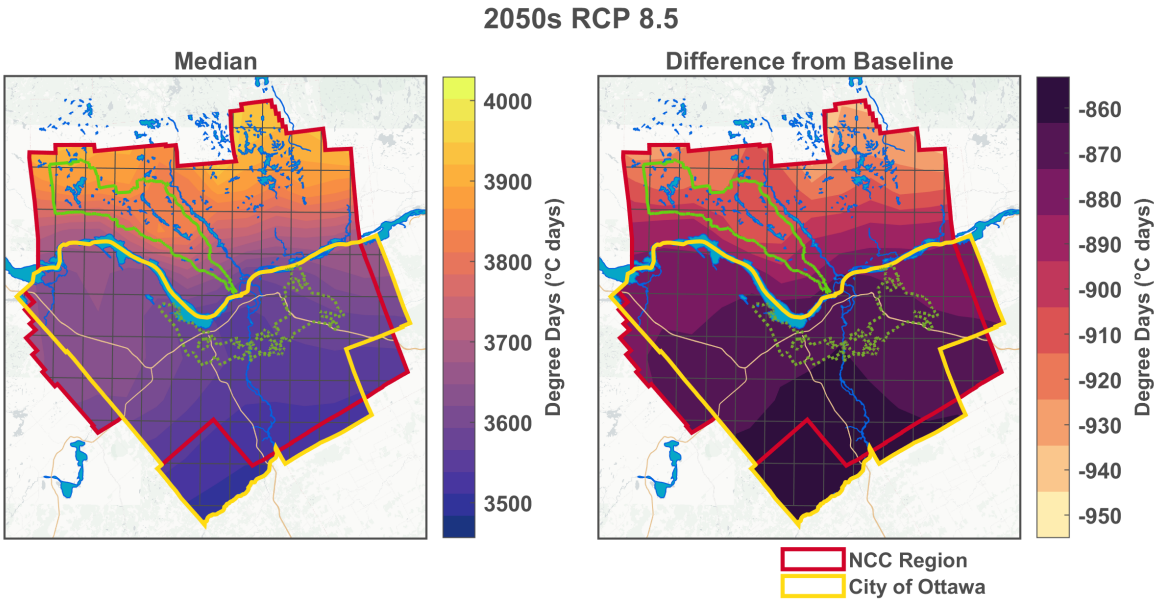


Figure F1.197: Heating Degree Days (18°C).

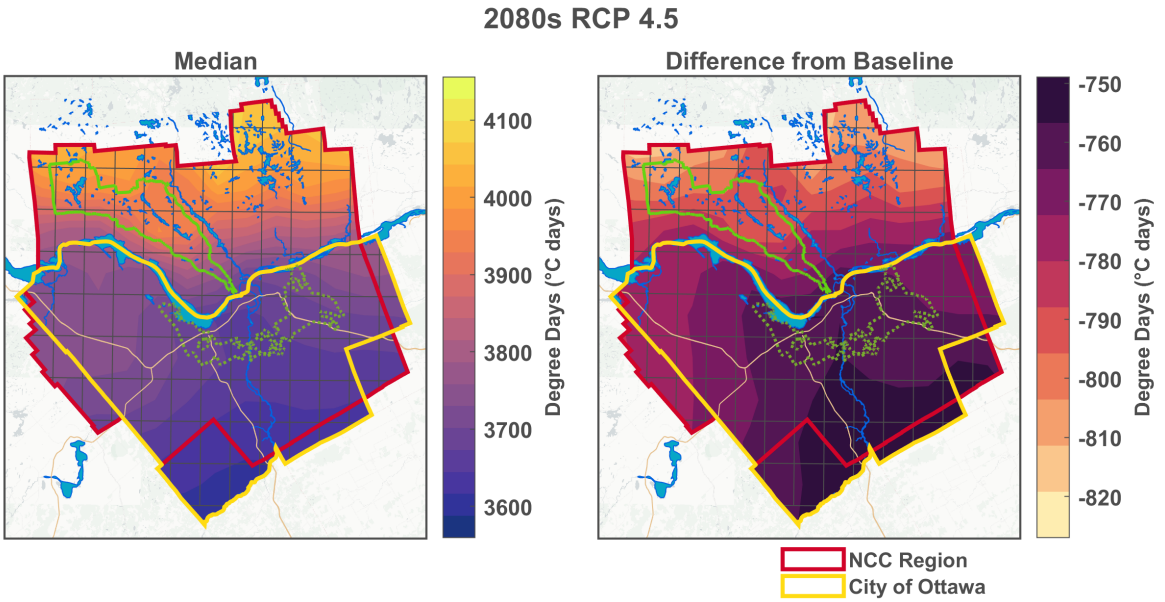


Figure F1.198: Heating Degree Days (18°C).

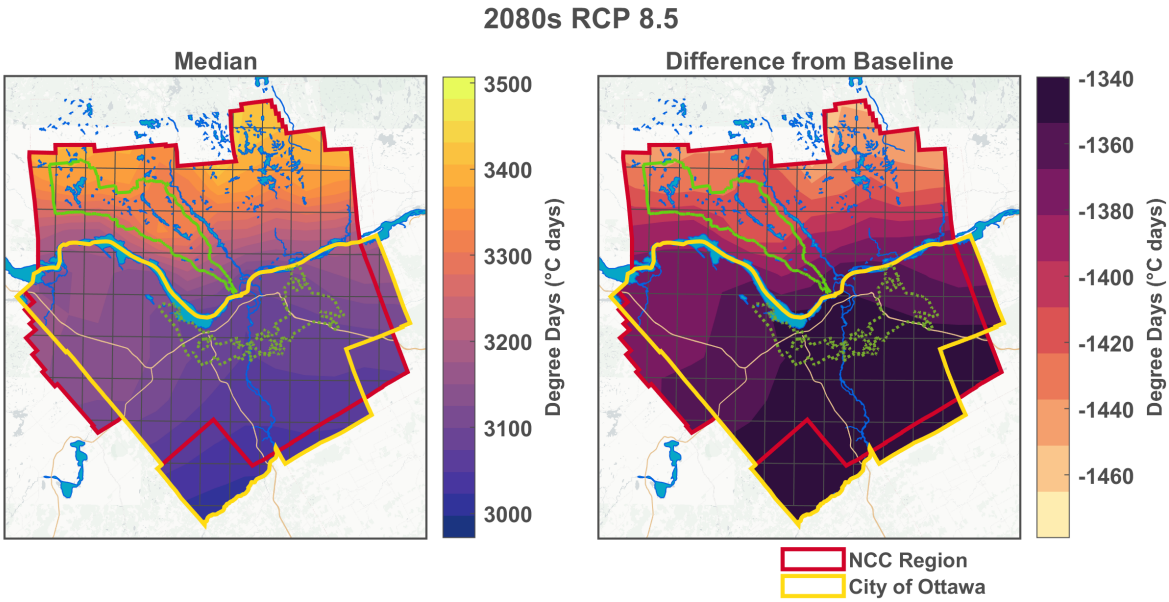


Figure F1.199: Heating Degree Days (18°C).

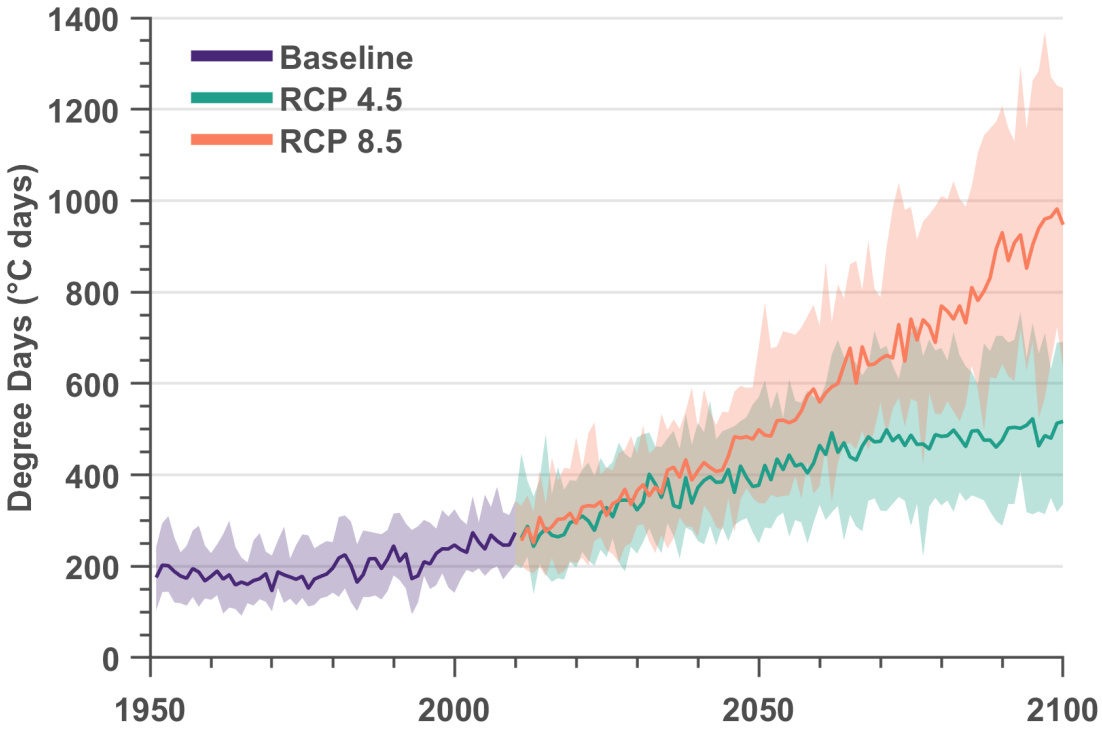


Figure F1.200: Cooling Degree Days (18°C).

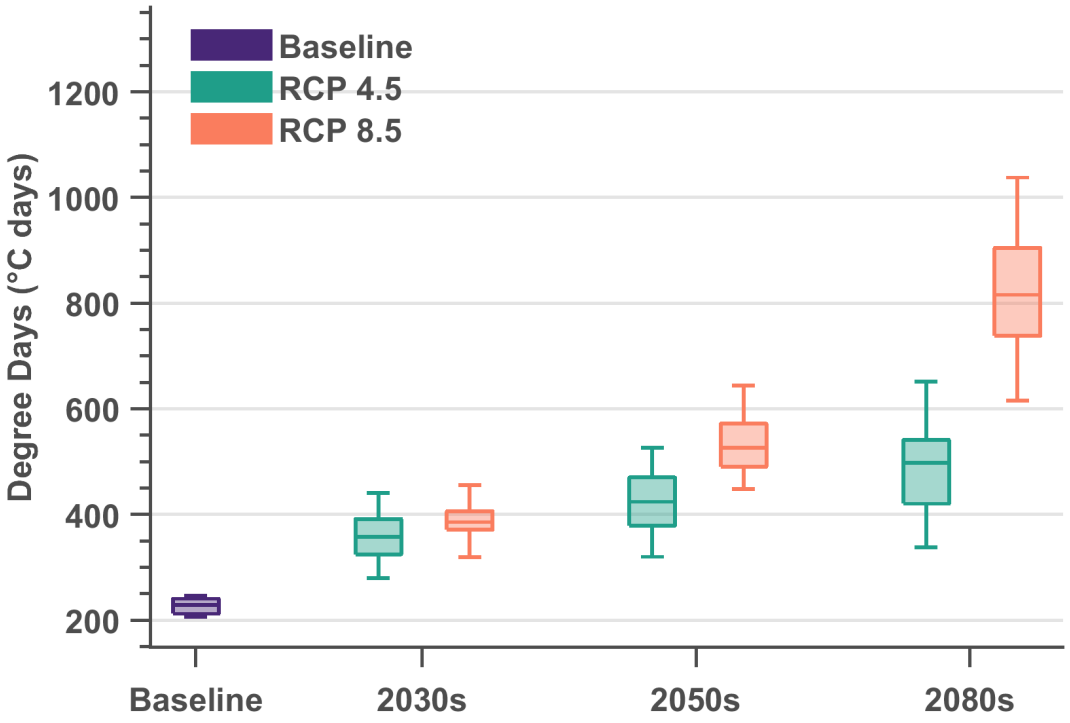


Figure F1.201: Cooling Degree Days (18°C).

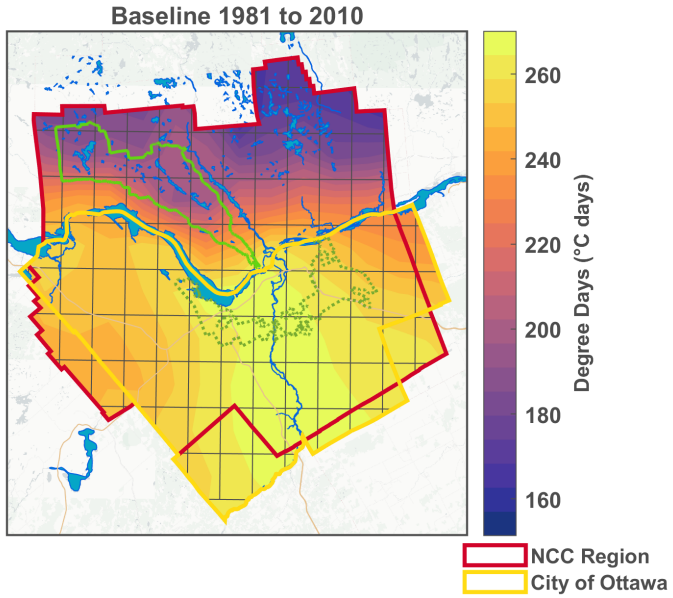


Figure F1.202: Cooling Degree Days (18ºC) - Baseline.

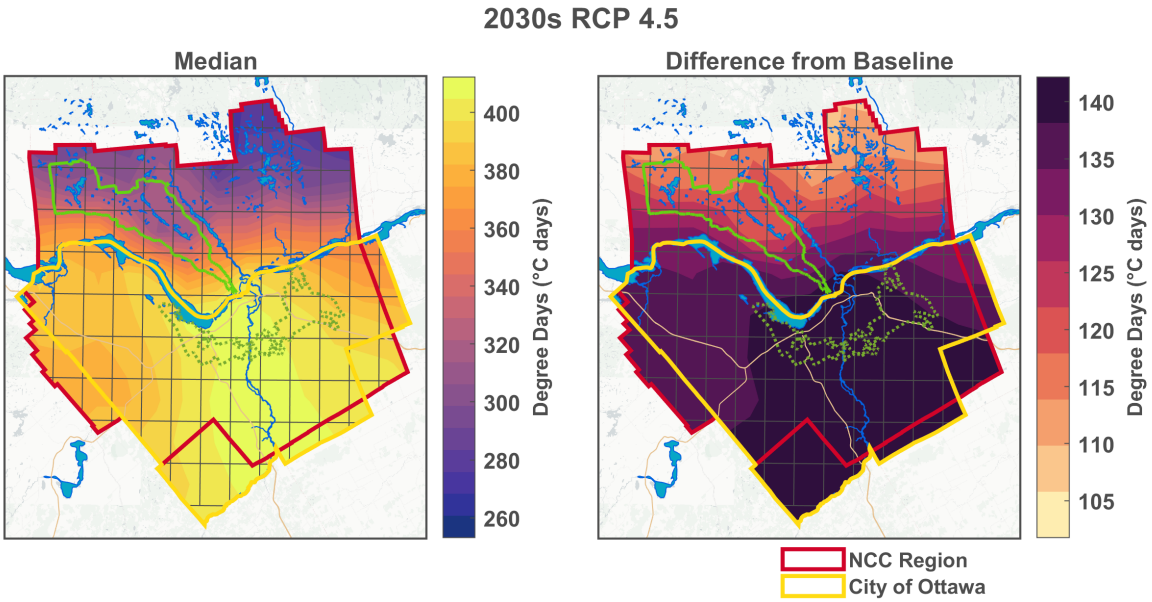


Figure F1.203: Cooling Degree Days (18°C) - 2030s RCP 4.5.

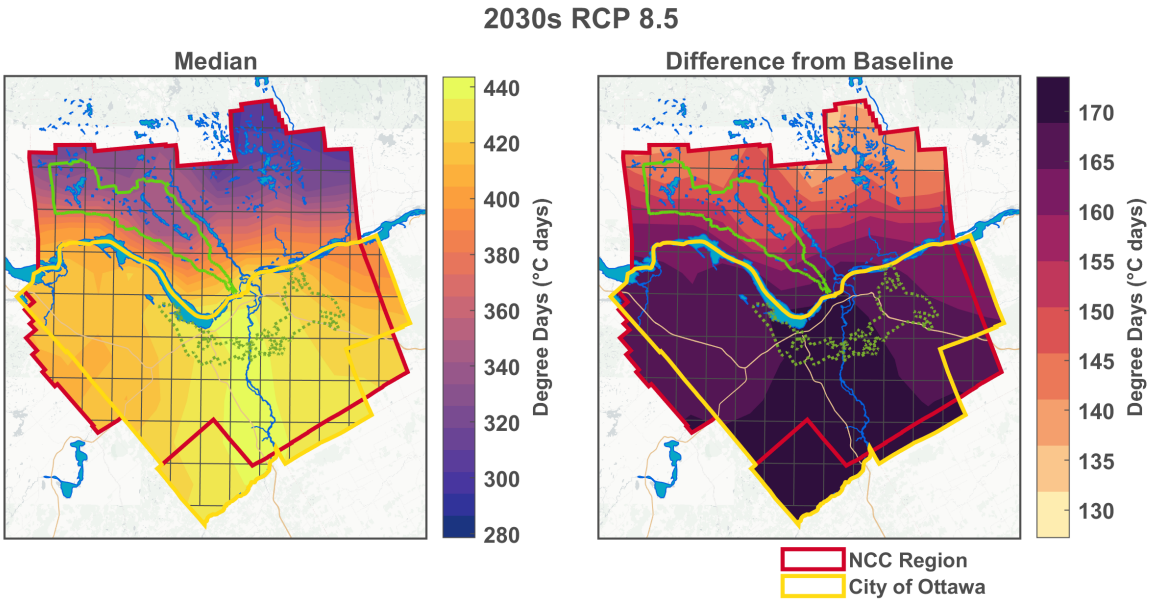


Figure F1.204: Cooling Degree Days (18°C) - 2030s RCP 8.5.

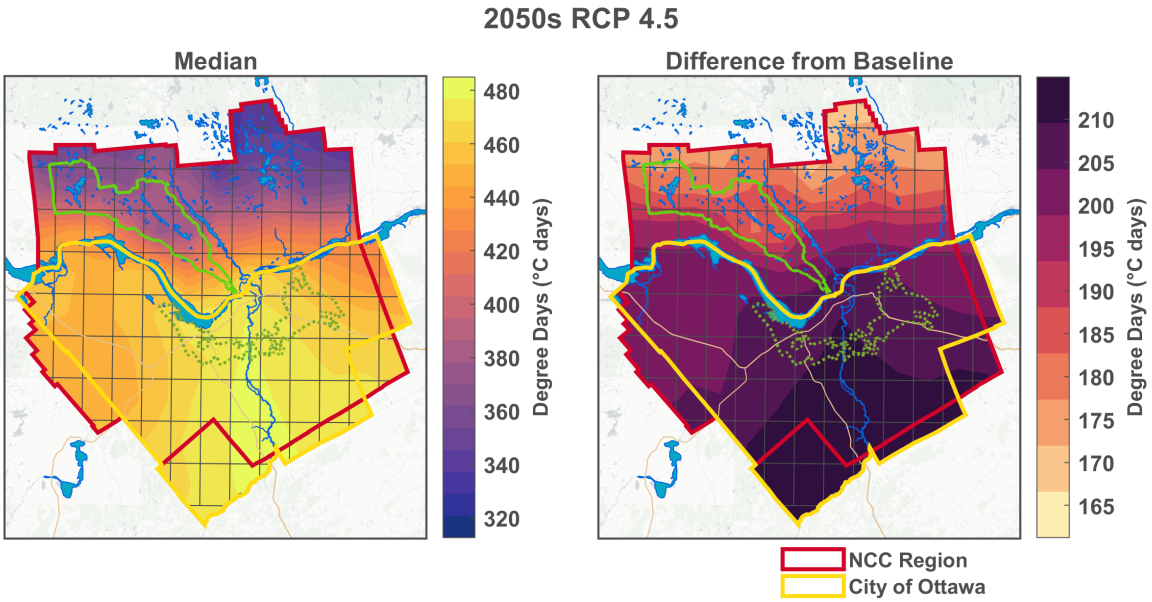


Figure F1.205: Cooling Degree Days (18°C) - 2050s RCP 4.5.

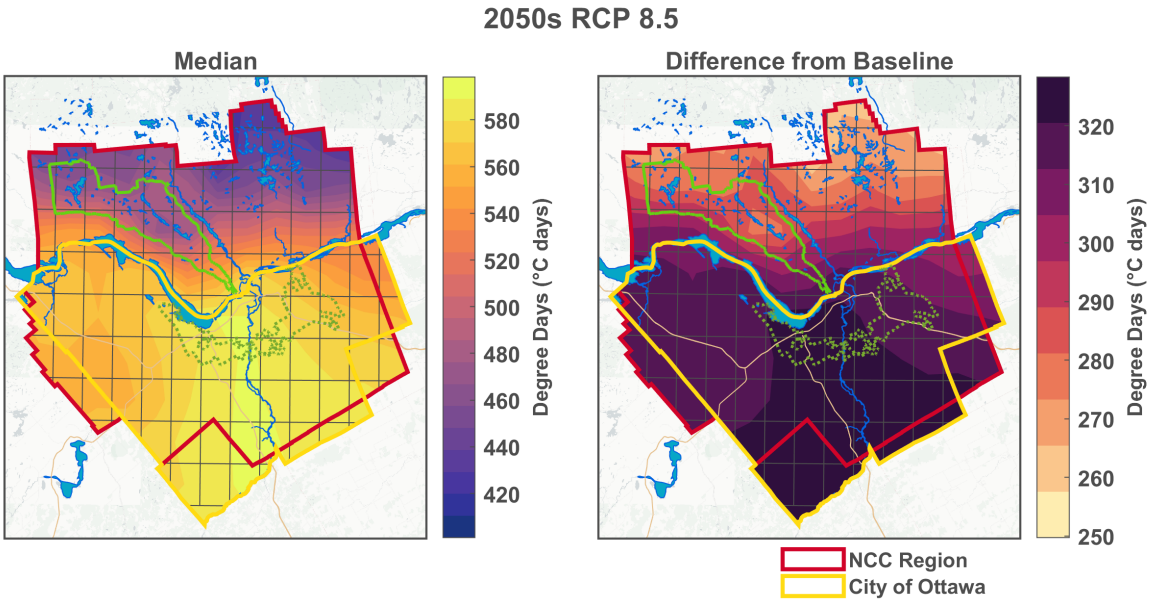


Figure F1.206: Cooling Degree Days (18°C) - 2050s RCP 8.5.

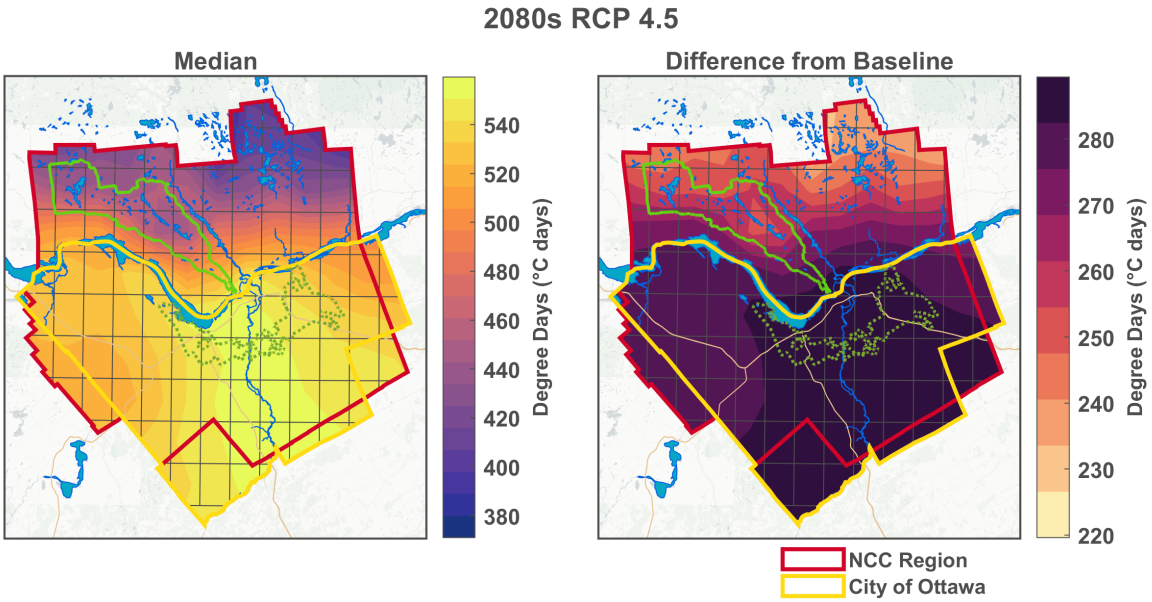


Figure F1.207: Cooling Degree Days (18°C) - 2080s RCP 4.5.

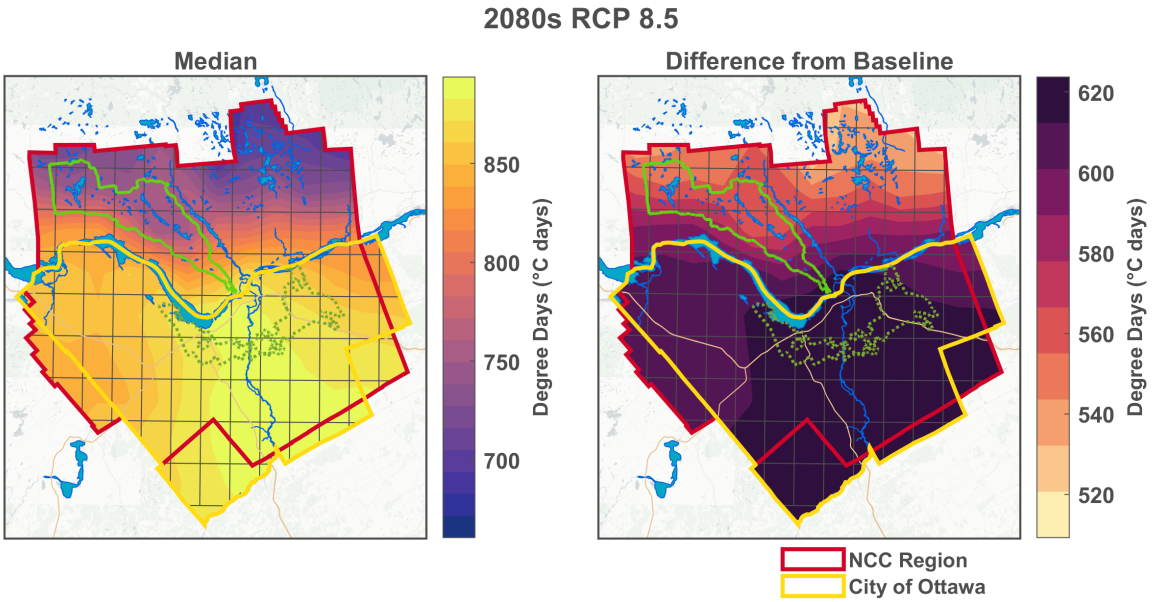


Figure F1.208: Cooling Degree Days (18°C) - 2080s RCP 8.5.

F2 Precipitation

The extreme precipitation projections shown in this appendix should not be used without consulting Appendix D - Technical Review of Methods for Extreme Precipitation Projections. The recommendation in Appendix D is that multiple methods for projecting extreme precipitation be considered, due to the limitations of each method. Consulting the plots in isolation is liable to providing false certainty in and underestimation of the projections.

Furthermore, the values provided in this report and appendix cannot be used directly in design or adaptation projects. A vulnerability/impact assessment and/or risk assessment (Phase 2) is needed to determine which values to use from the range of projections provided.

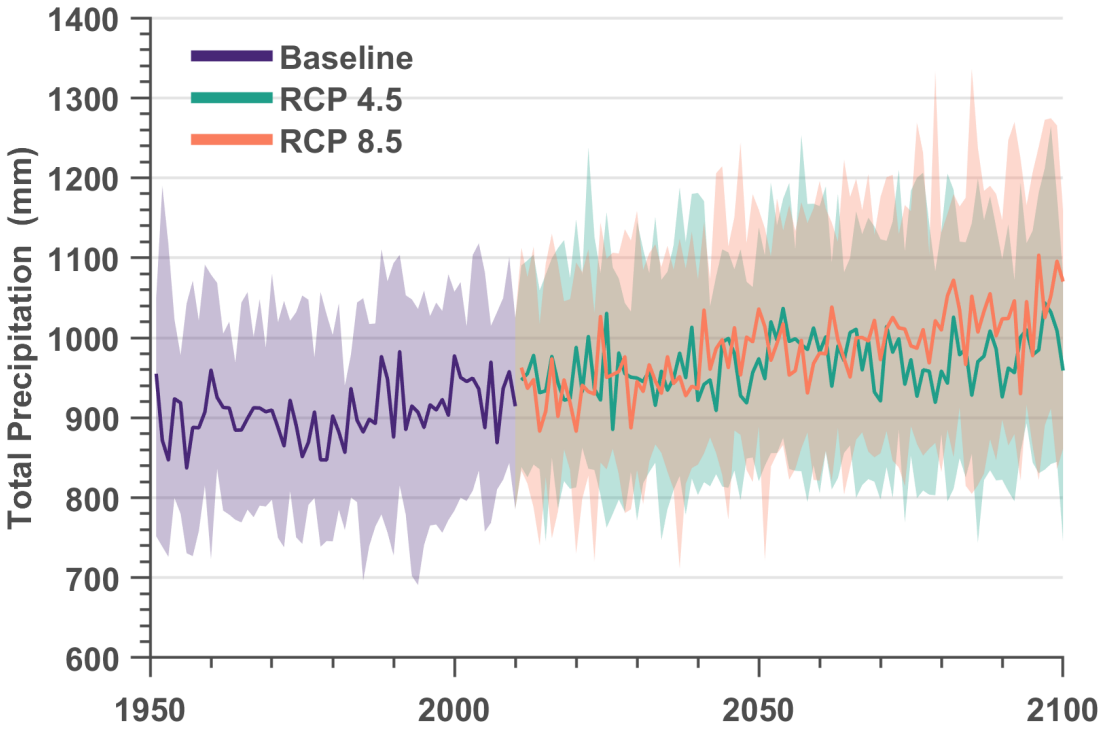


Figure F2.1: Annual Total Precipitation.

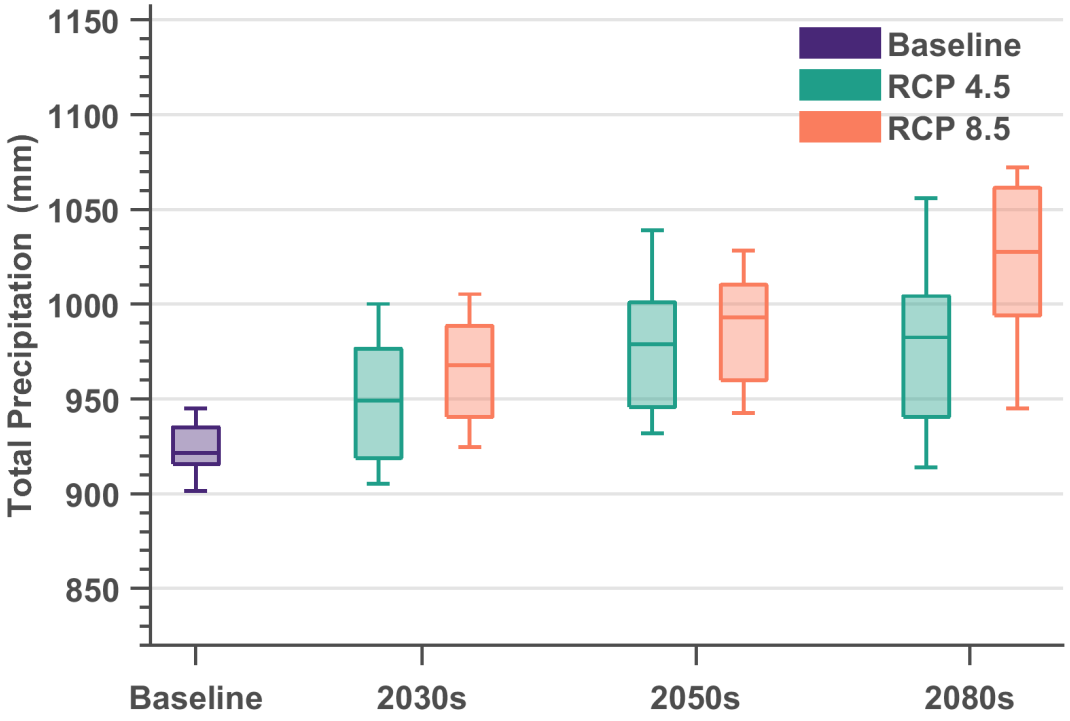


Figure F2.2: Annual Total Precipitation.

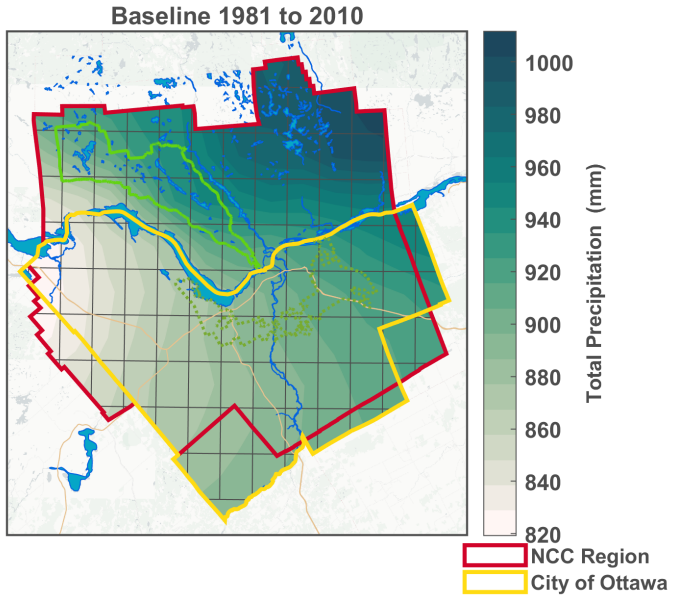


Figure F2.3: Annual Total Precipitation - Baseline.

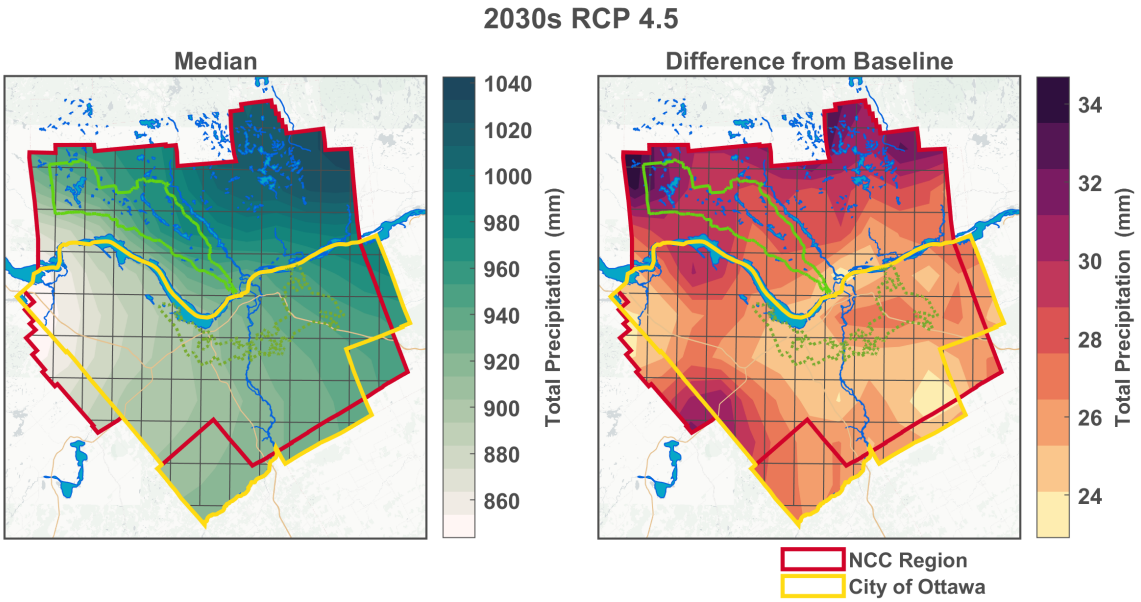


Figure F2.4: Annual Total Precipitation - 2030s RCP 4.5.

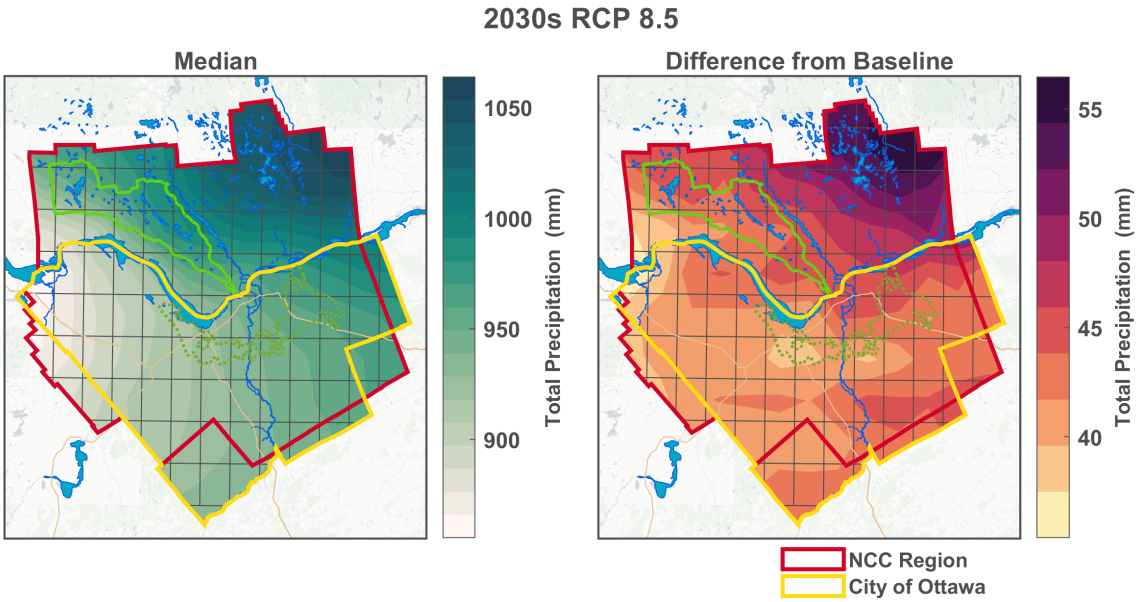


Figure F2.5: Annual Total Precipitation - 2030s RCP 8.5.

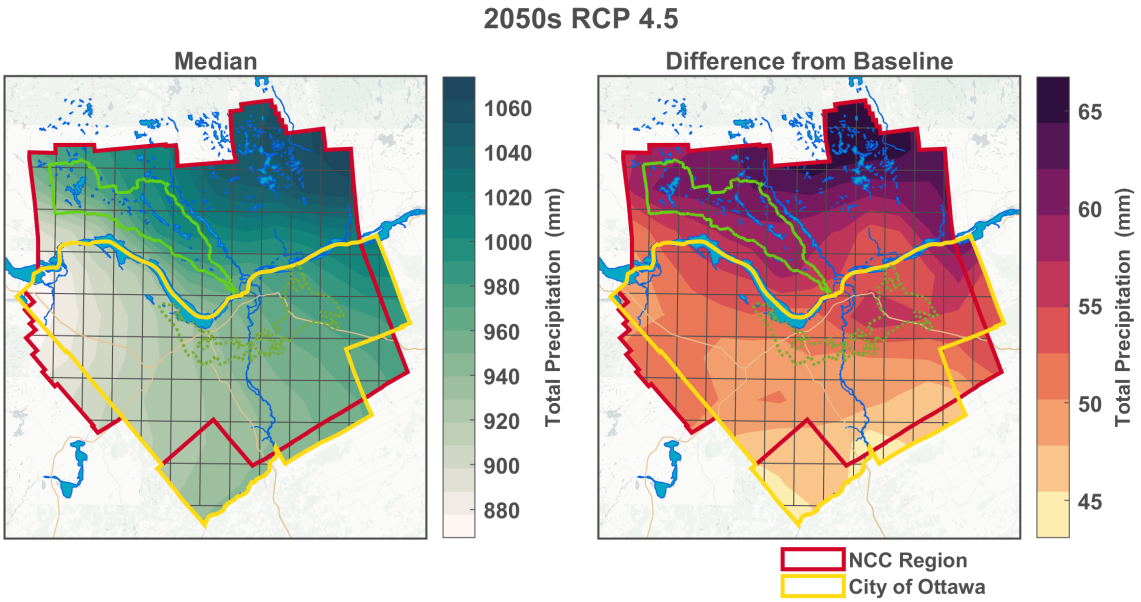


Figure F2.6: Annual Total Precipitation - 2050s RCP 4.5.

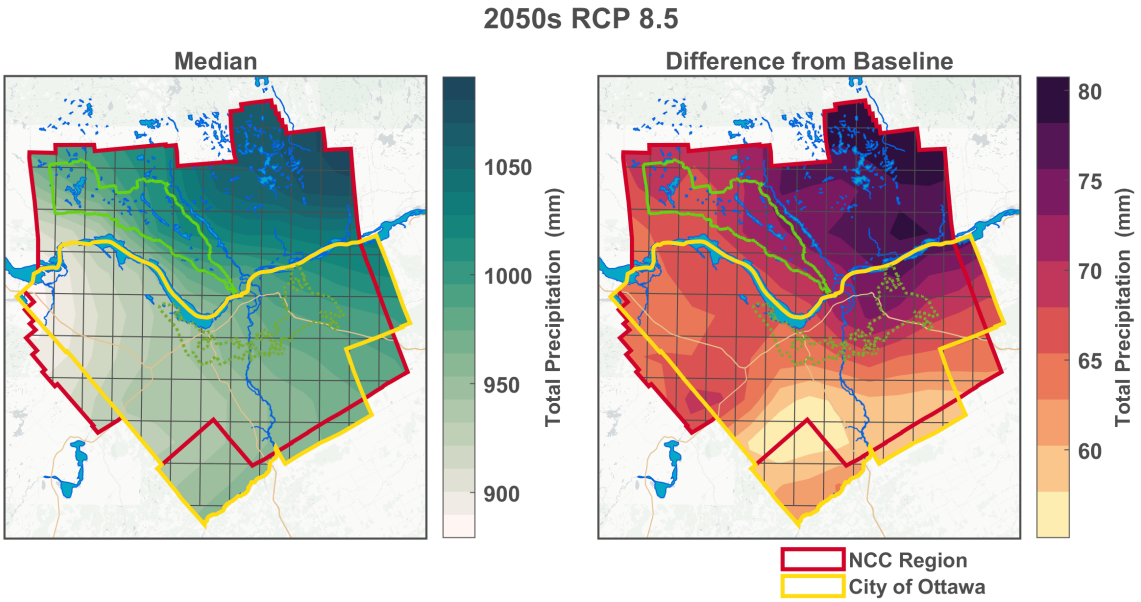


Figure F2.7: Annual Total Precipitation - 2050s RCP 8.5.

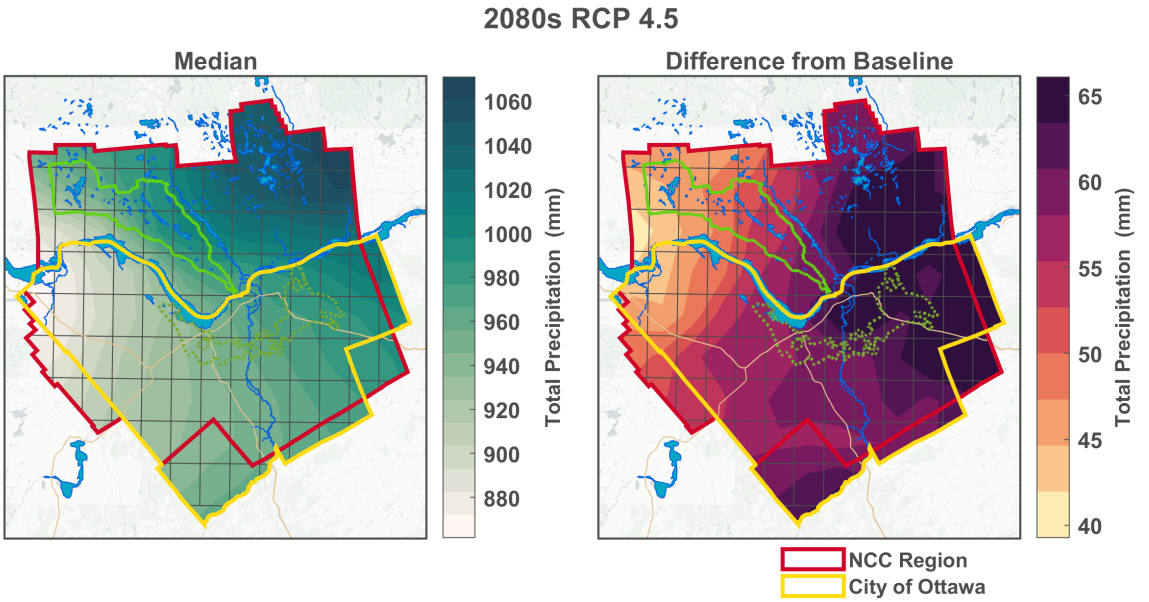


Figure F2.8: Annual Total Precipitation - 2080s RCP 4.5.

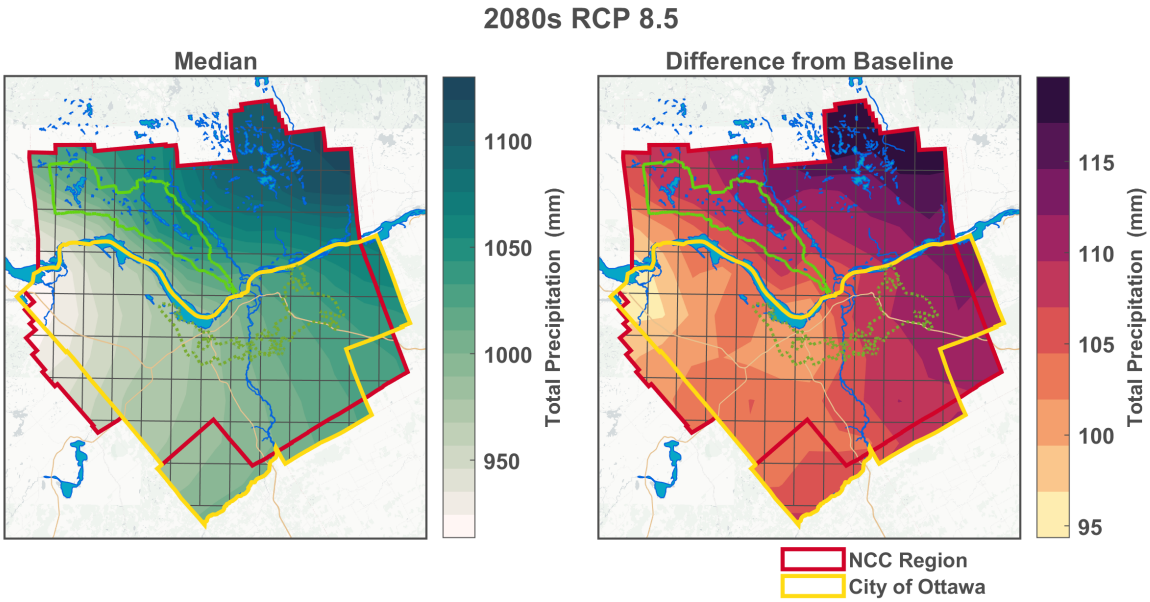


Figure F2.9: Annual Total Precipitation - 2080s RCP 8.5.

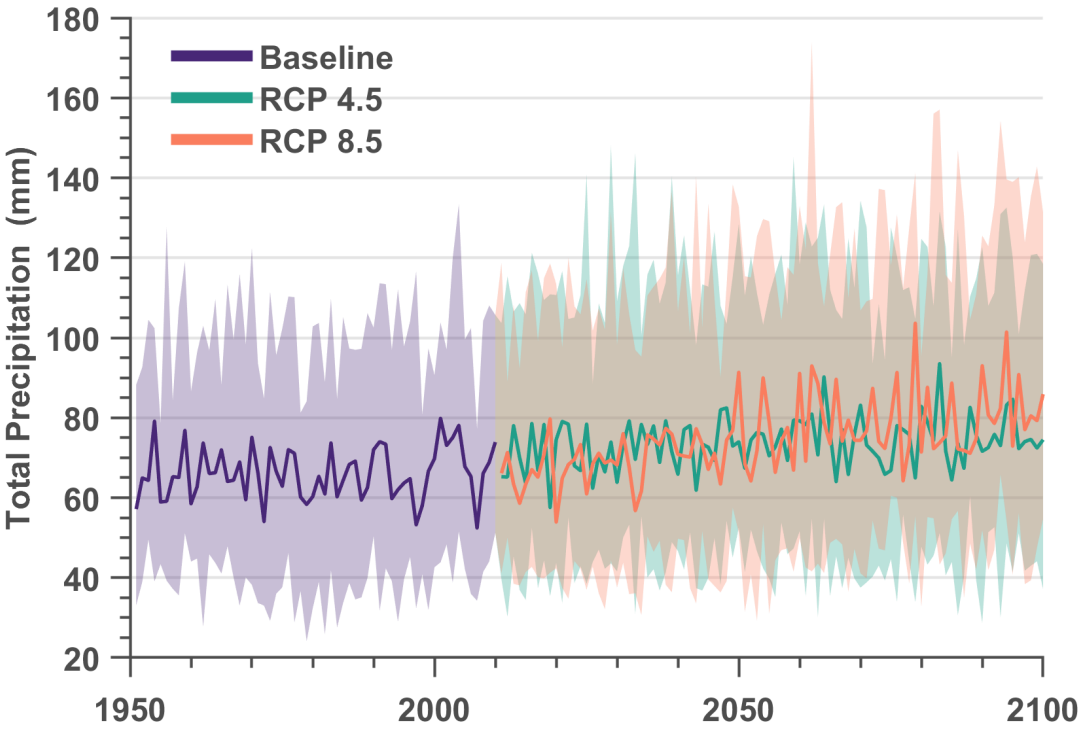


Figure F2.10: Monthly Total Precipitation - January.

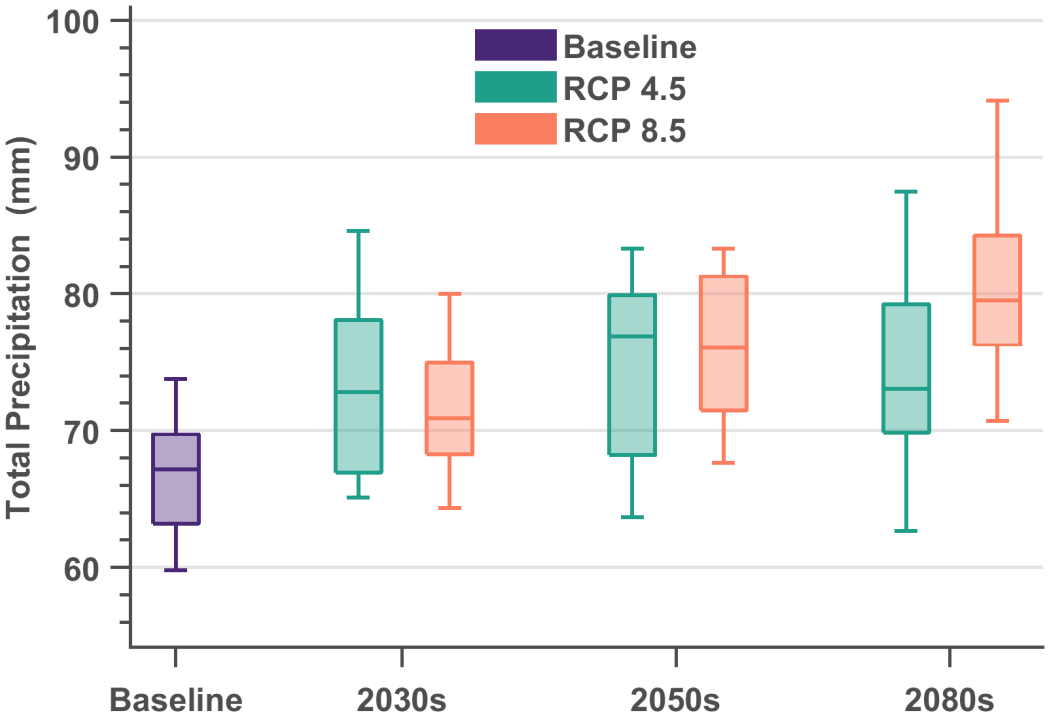


Figure F2.11: Monthly Total Precipitation - January.

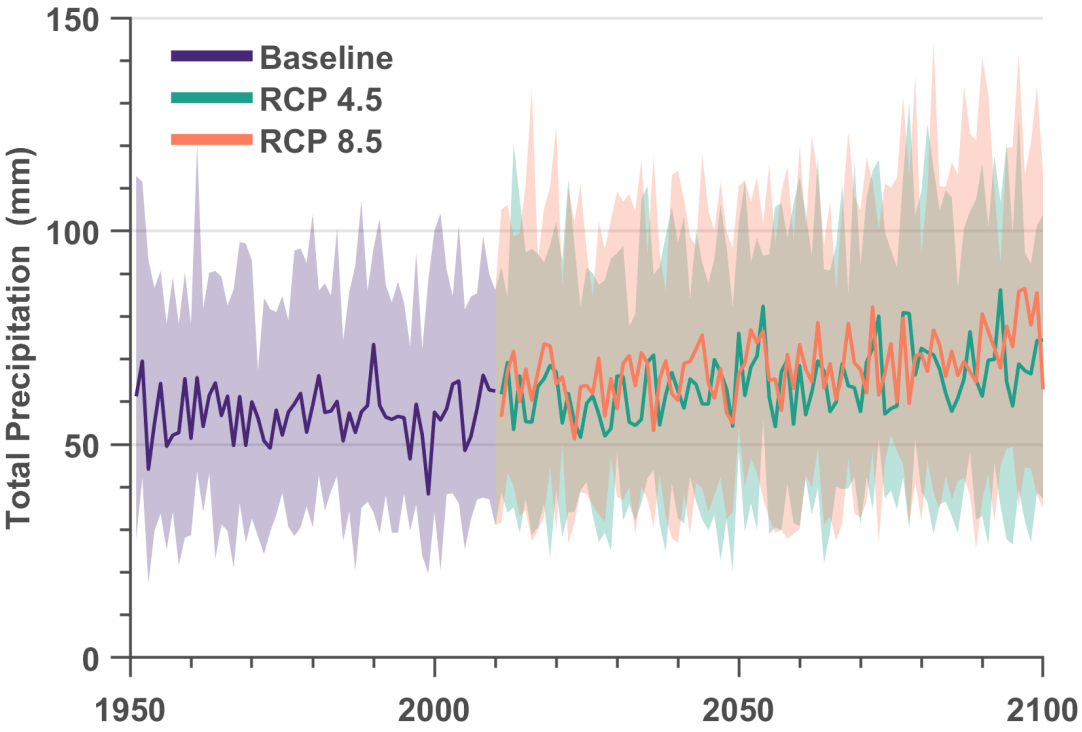


Figure F2.12: Monthly Total Precipitation - February.

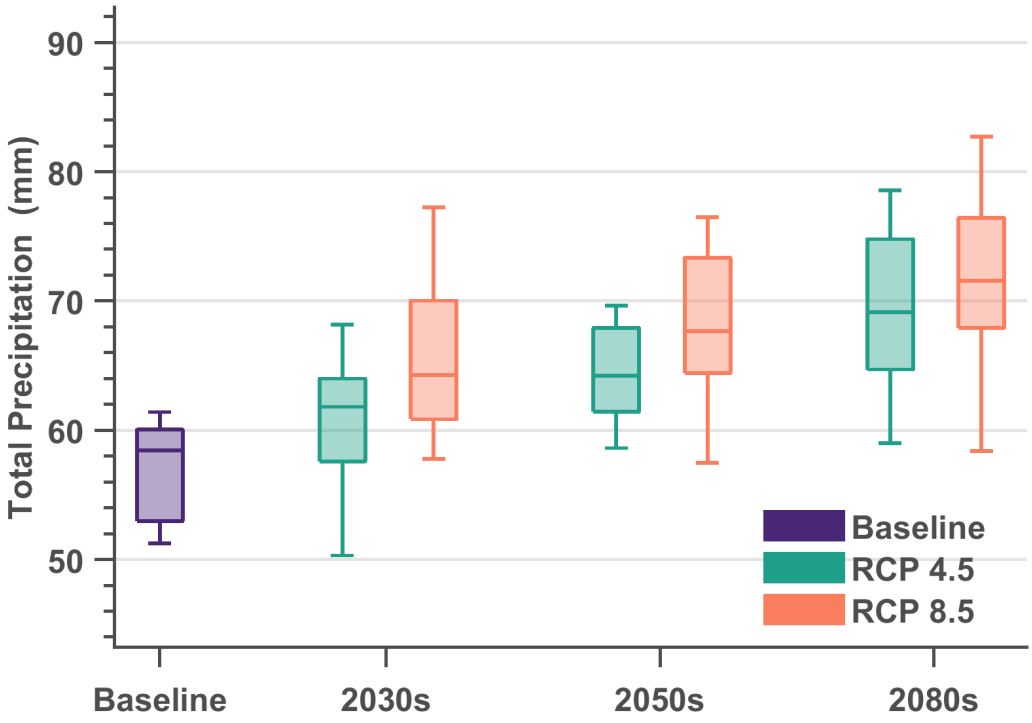


Figure F2.13: Monthly Total Precipitation - February.

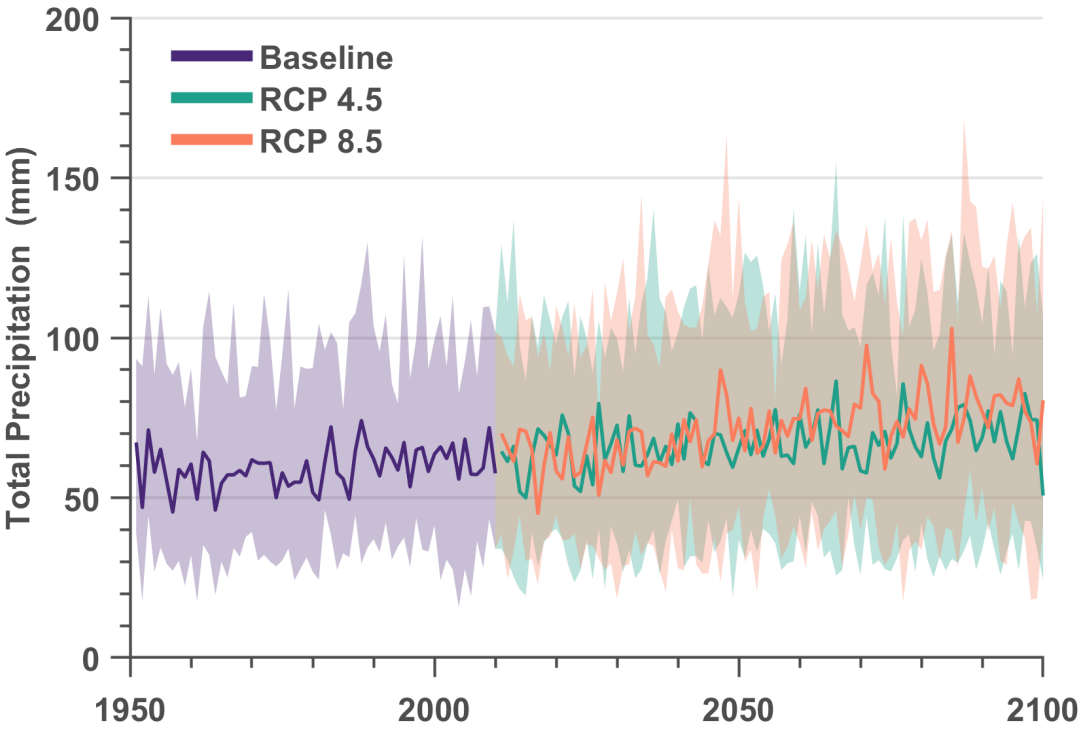


Figure F2.14: Monthly Total Precipitation - March.

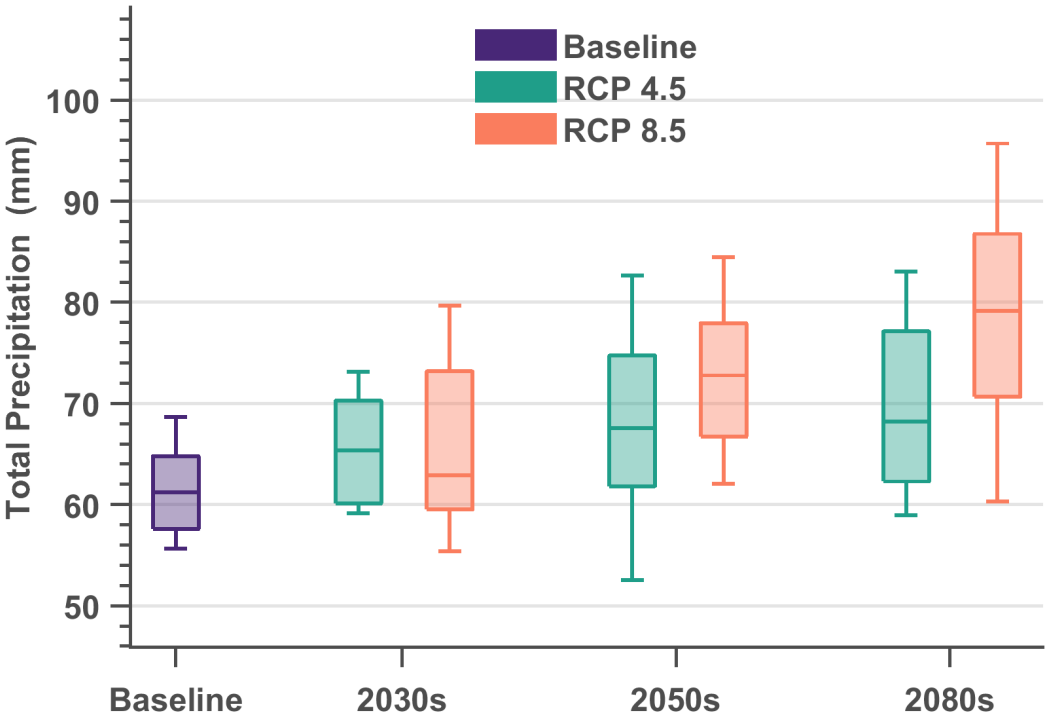


Figure F2.15: Monthly Total Precipitation - March.

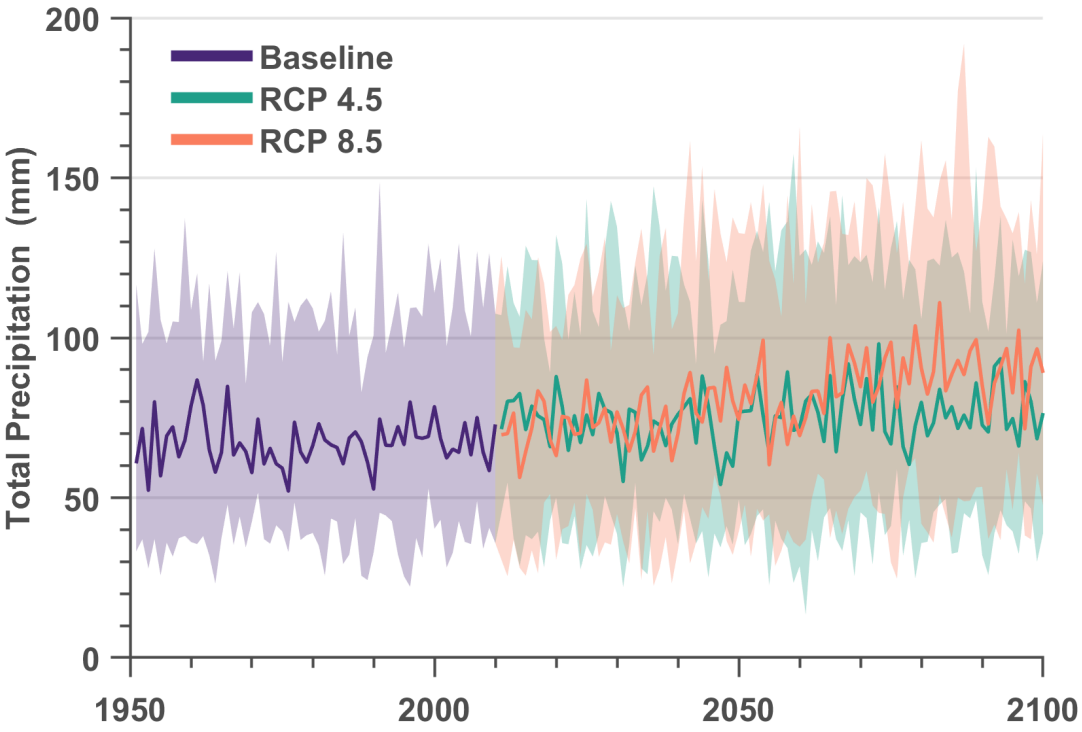


Figure F2.16: Monthly Total Precipitation - April.

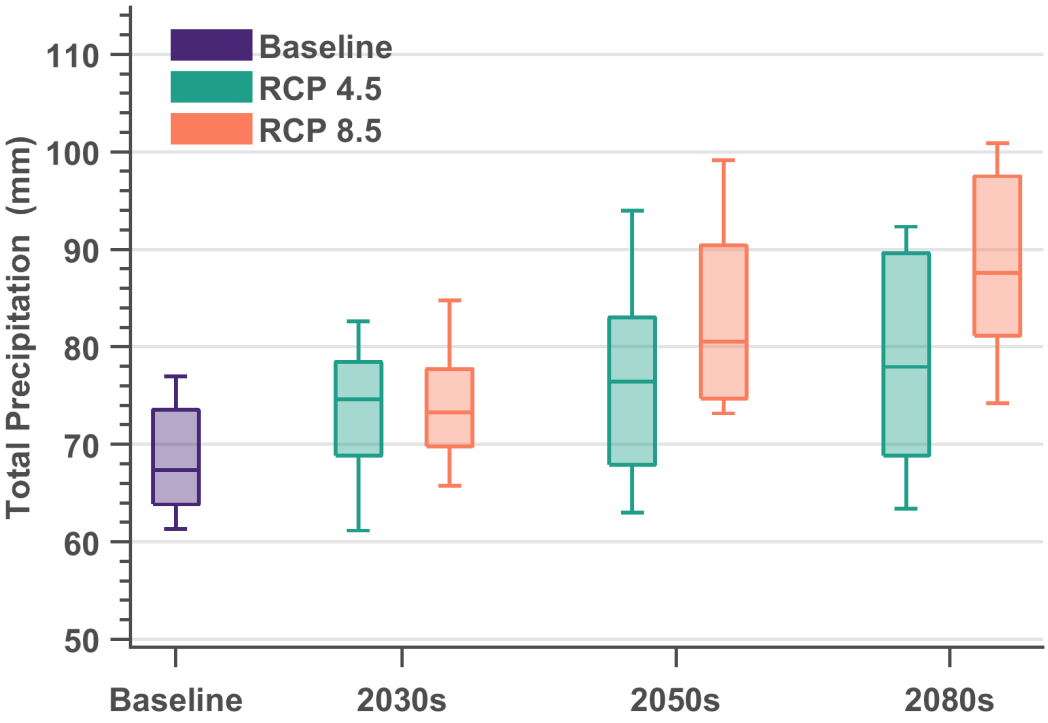


Figure F2.17: Monthly Total Precipitation - April.

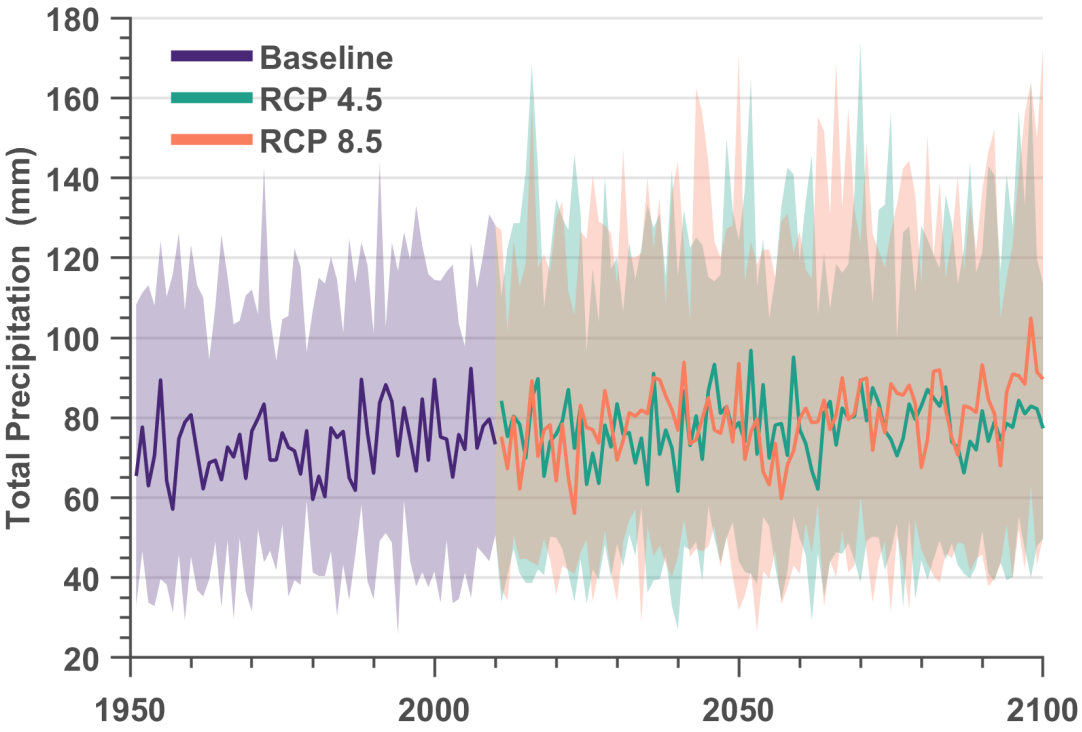


Figure F2.18: Monthly Total Precipitation - May.

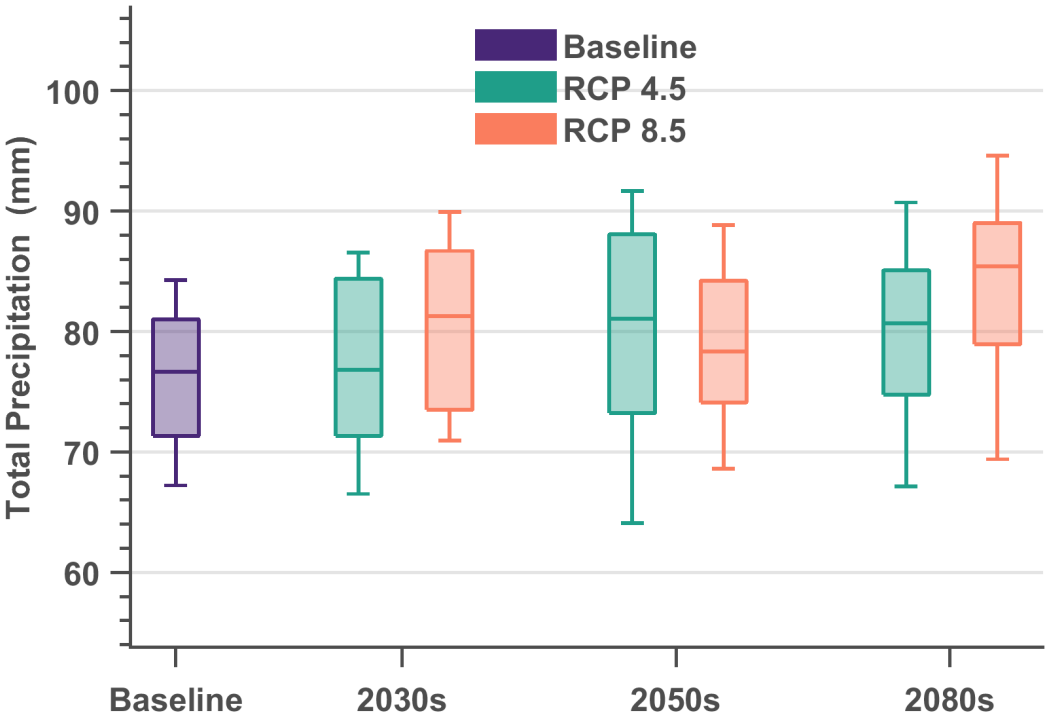


Figure F2.19: Monthly Total Precipitation - May.

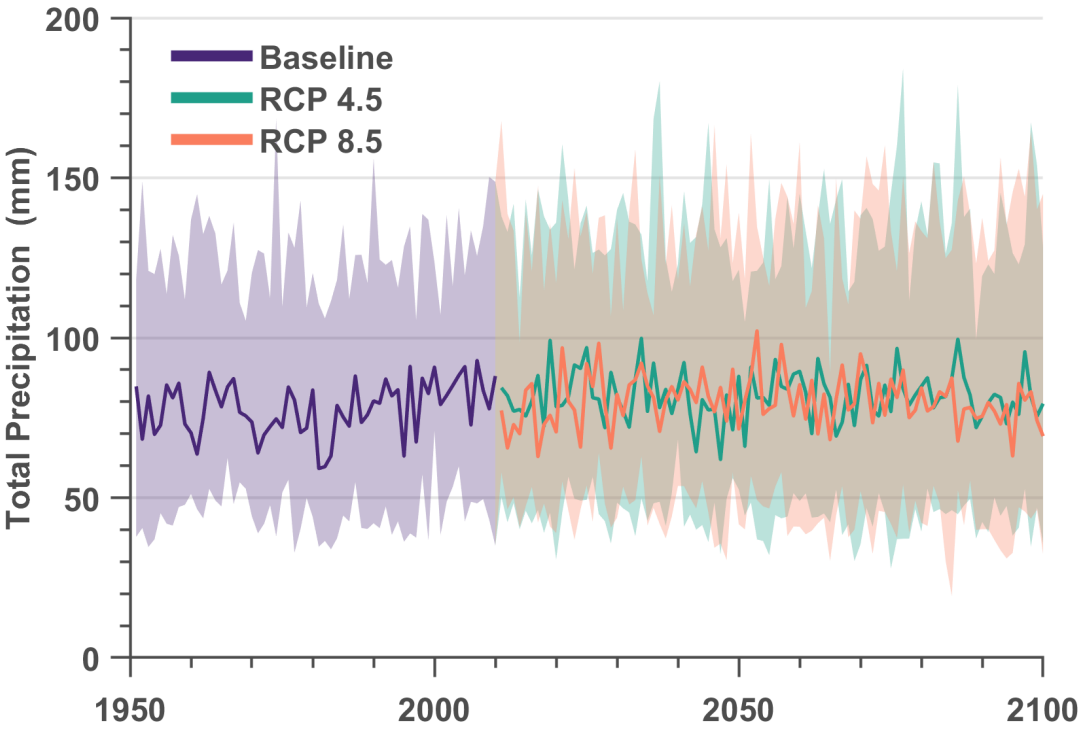


Figure F2.20: Monthly Total Precipitation - June.

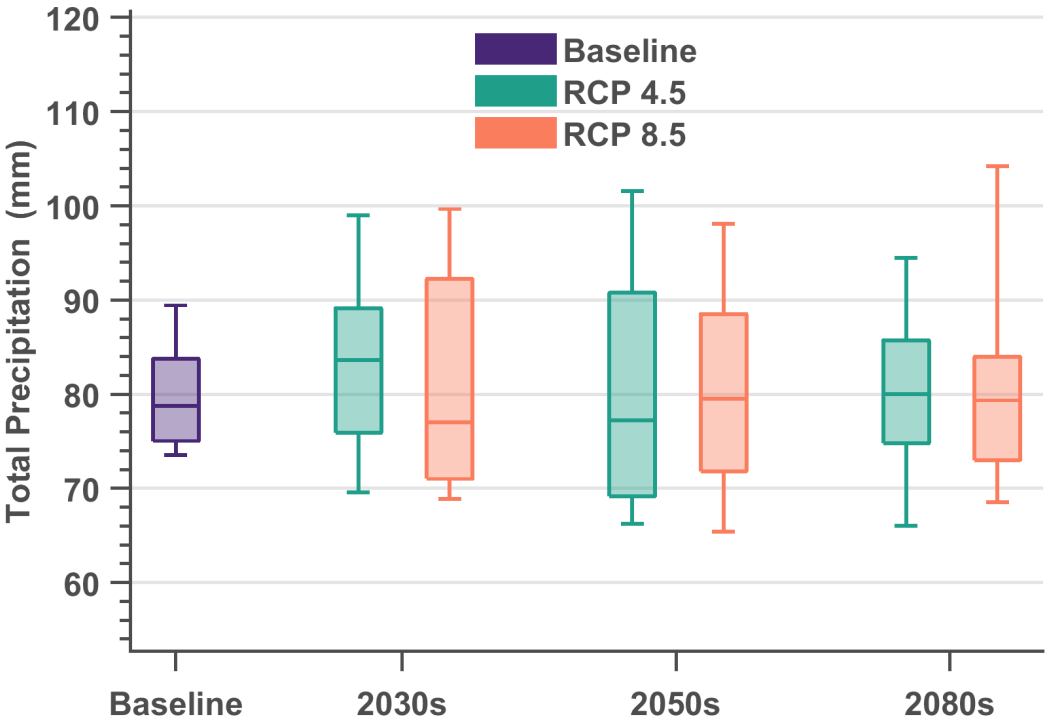


Figure F2.21: Monthly Total Precipitation - June.

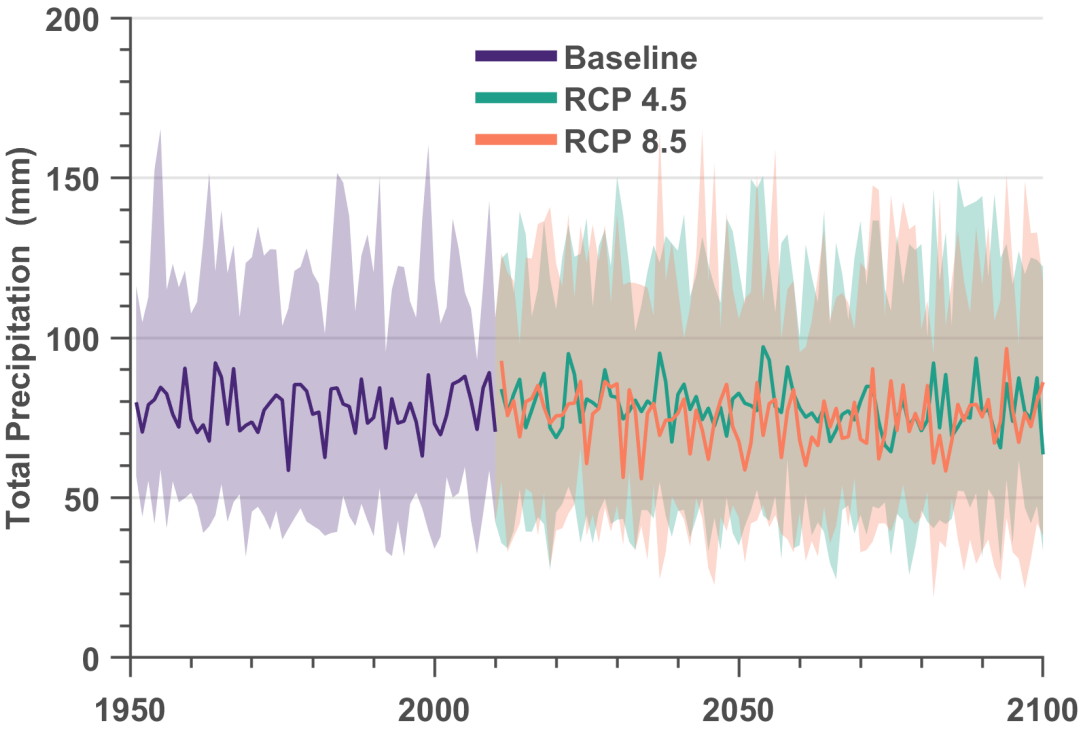


Figure F2.22: Monthly Total Precipitation - July.

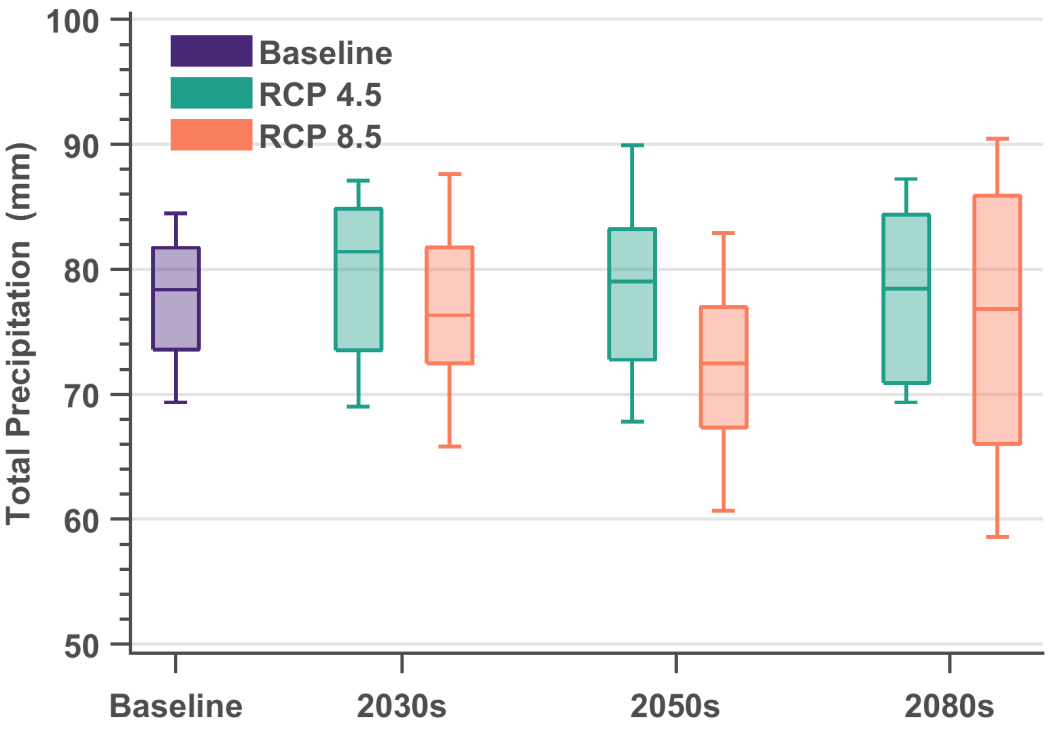


Figure F2.23: Monthly Total Precipitation - July.

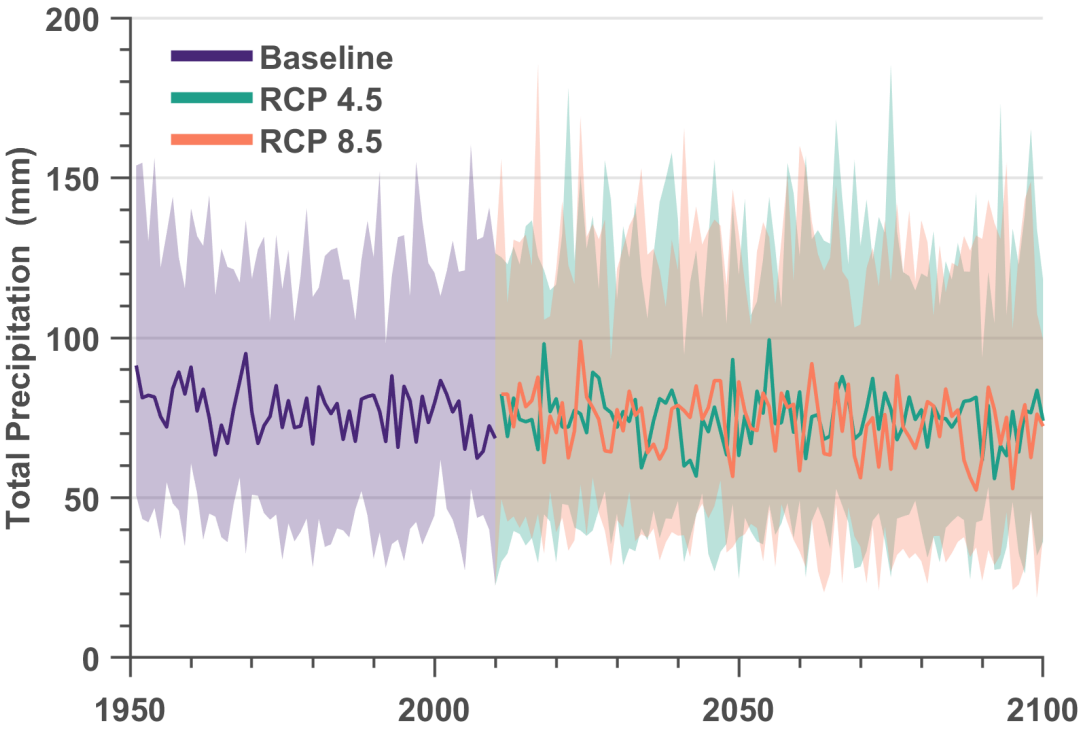


Figure F2.24: Monthly Total Precipitation - August.

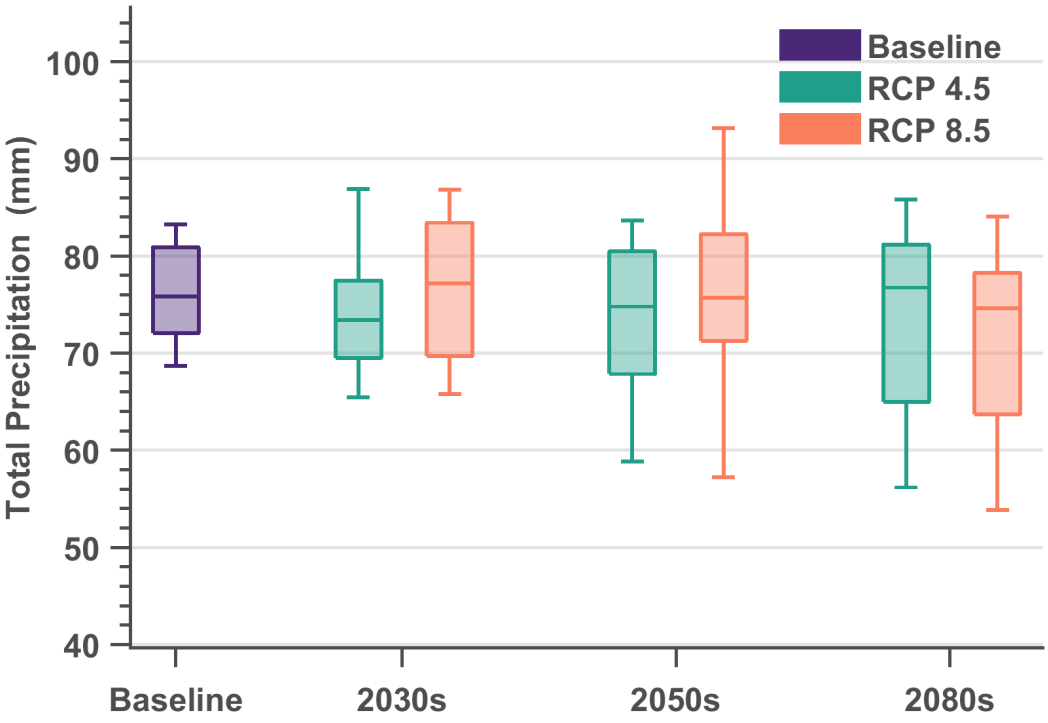


Figure F2.25: Monthly Total Precipitation - August.

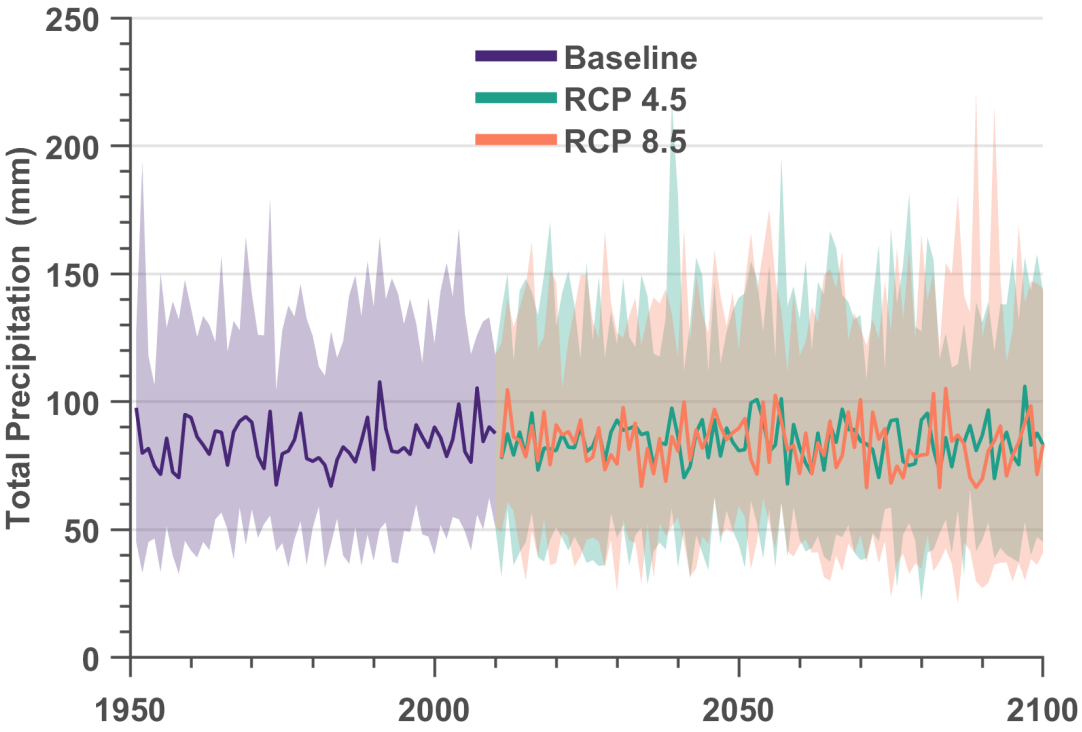


Figure F2.26: Monthly Total Precipitation - September.

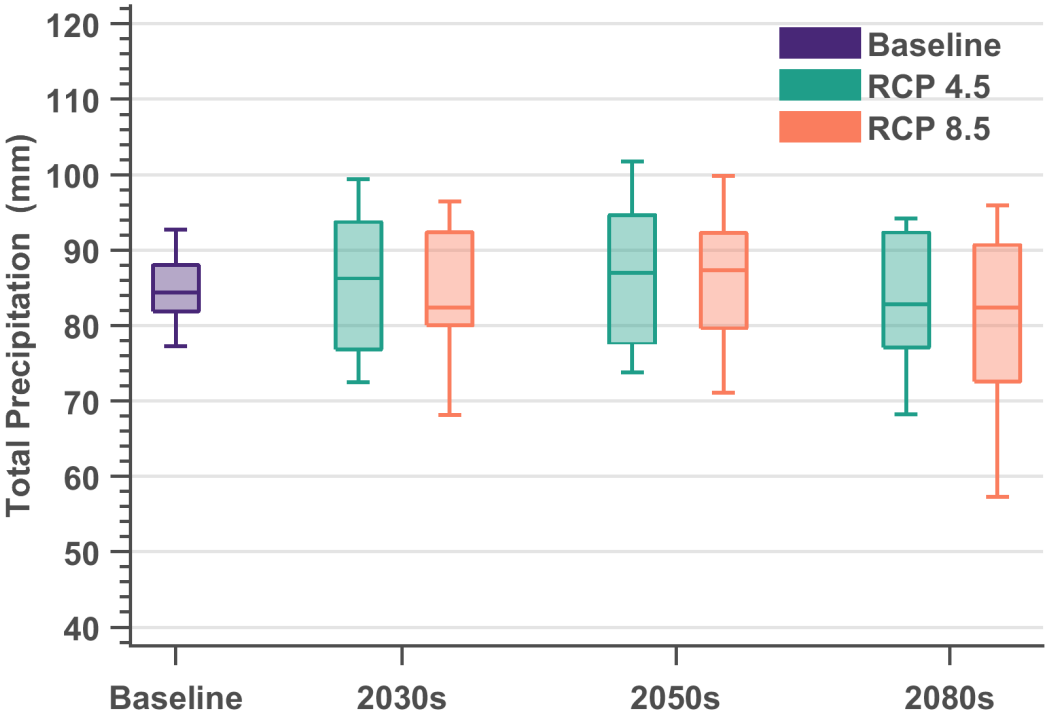


Figure F2.27: Monthly Total Precipitation - September.

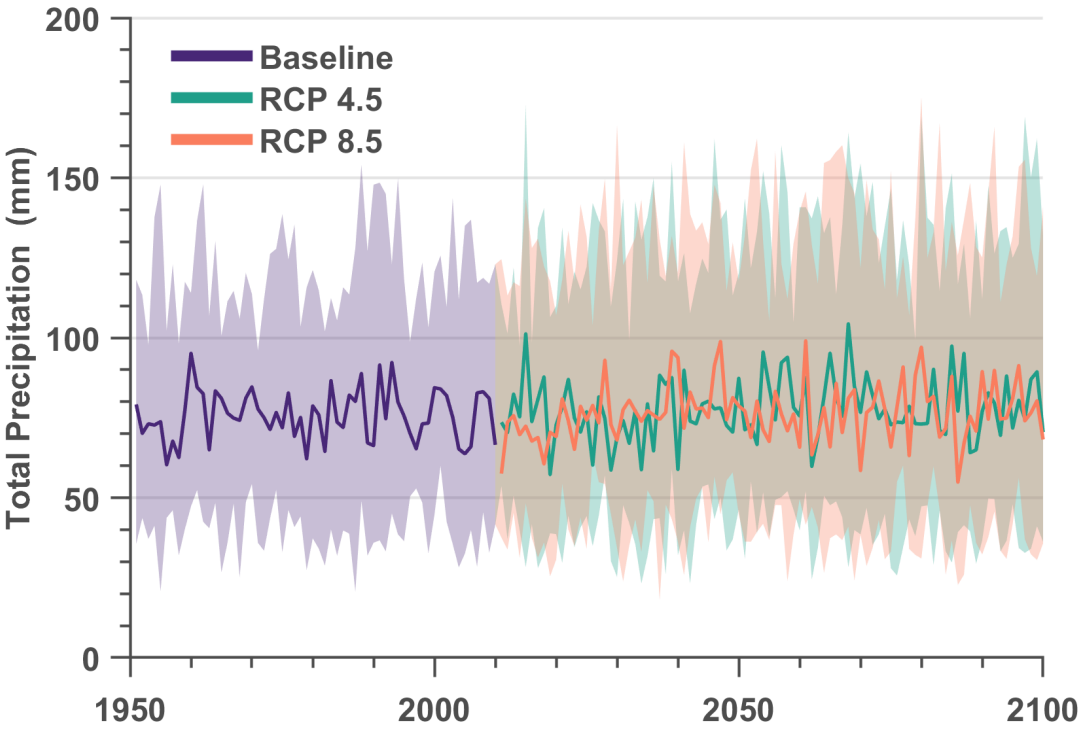


Figure F2.28: Monthly Total Precipitation - October.

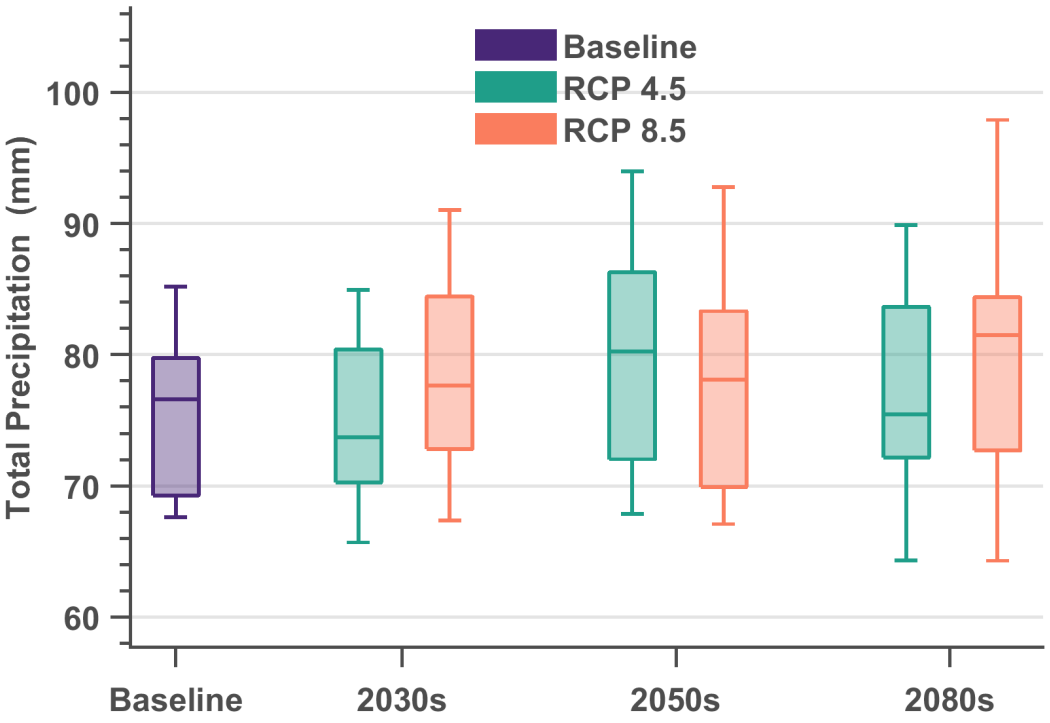


Figure F2.29: Monthly Total Precipitation - October.

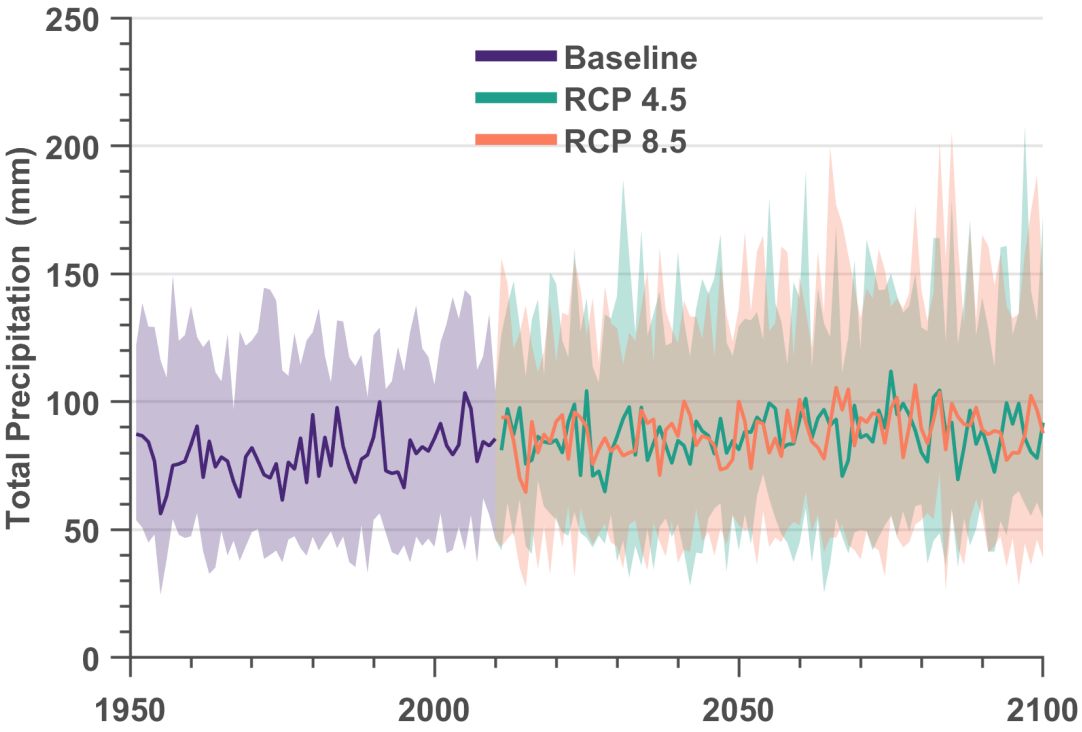


Figure F2.30: Monthly Total Precipitation - November.

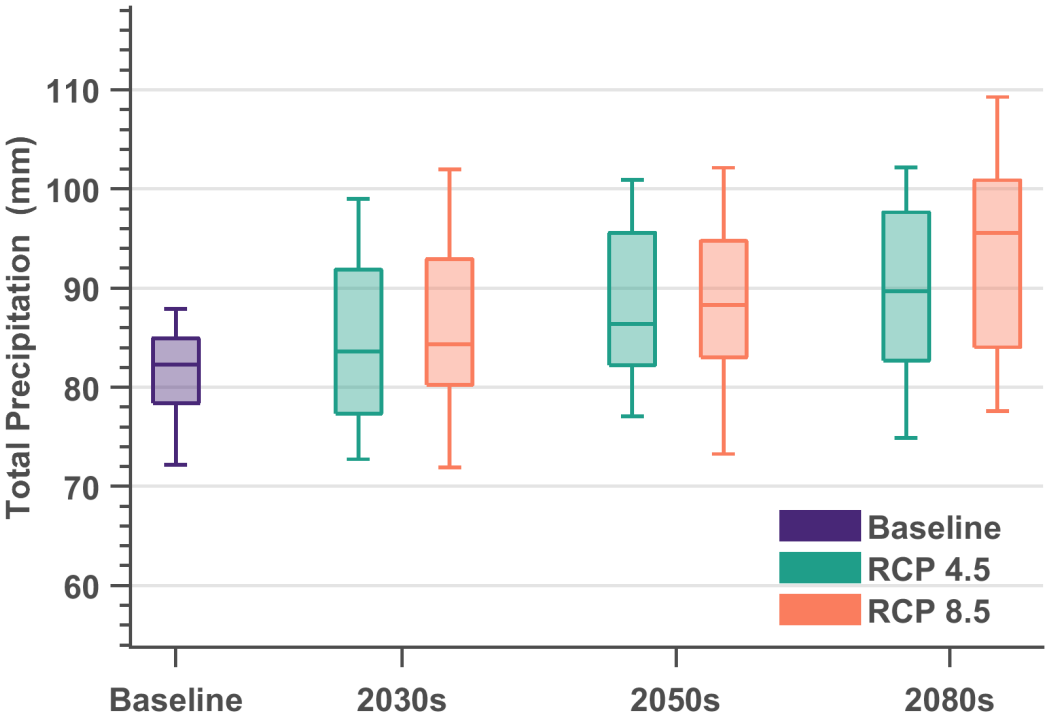


Figure F2.31: Monthly Total Precipitation - November.

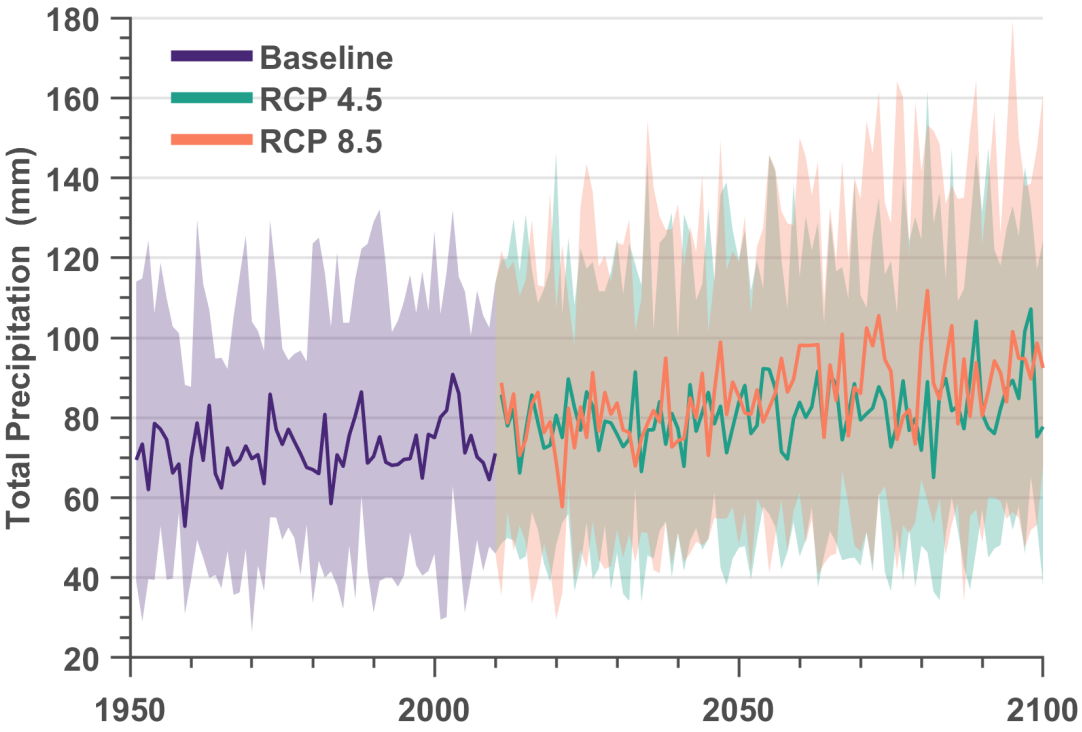


Figure F2.32: Monthly Total Precipitation - December.

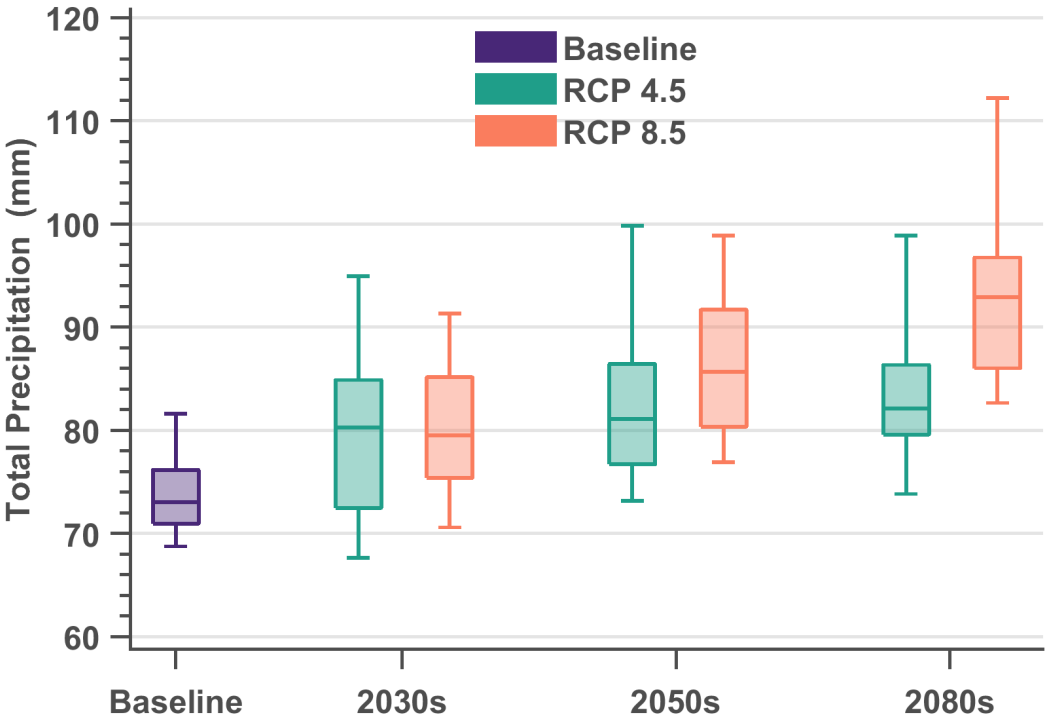


Figure F2.33: Monthly Total Precipitation - December.

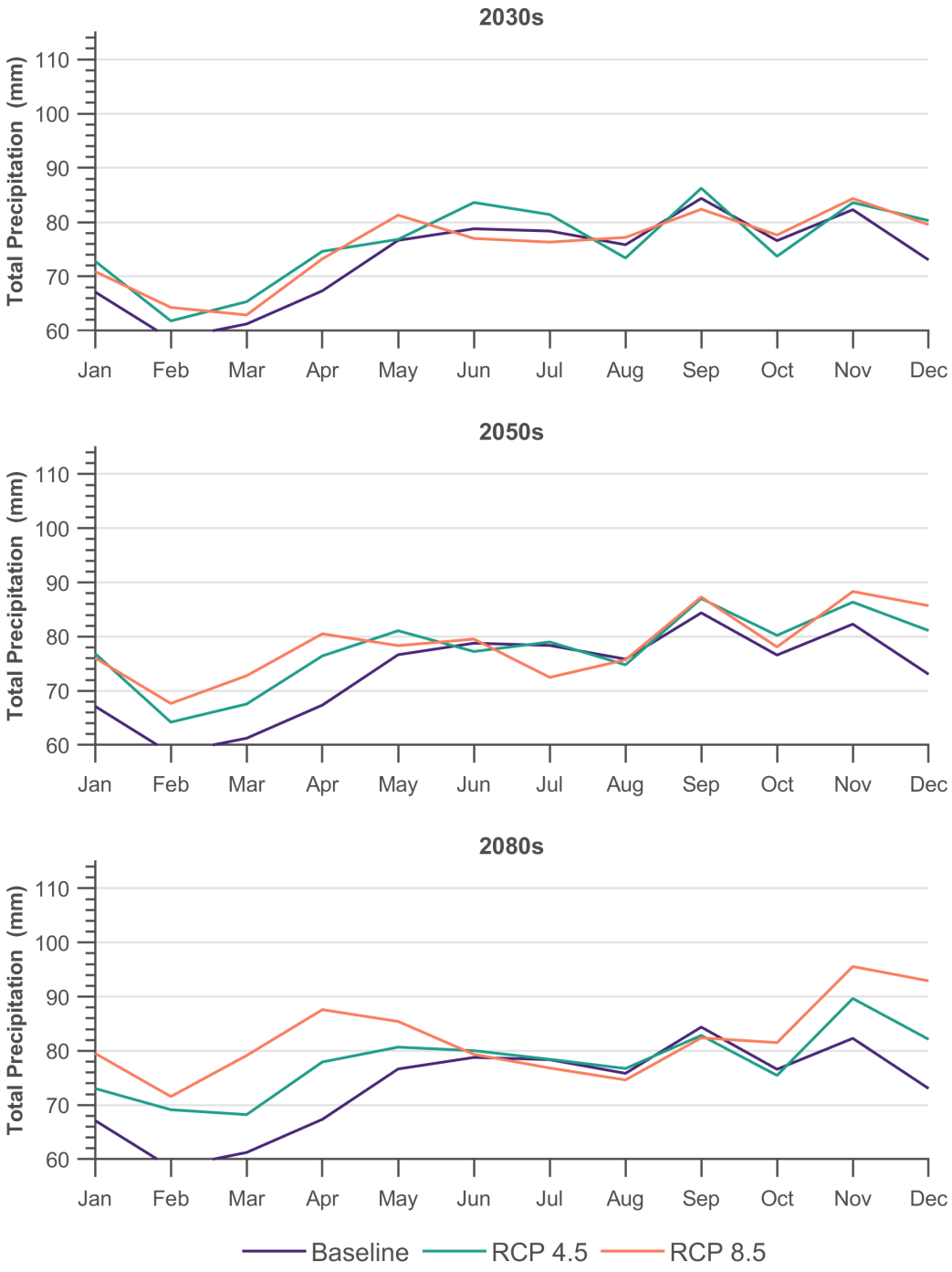


Figure F2.34: Monthly Total Precipitation.

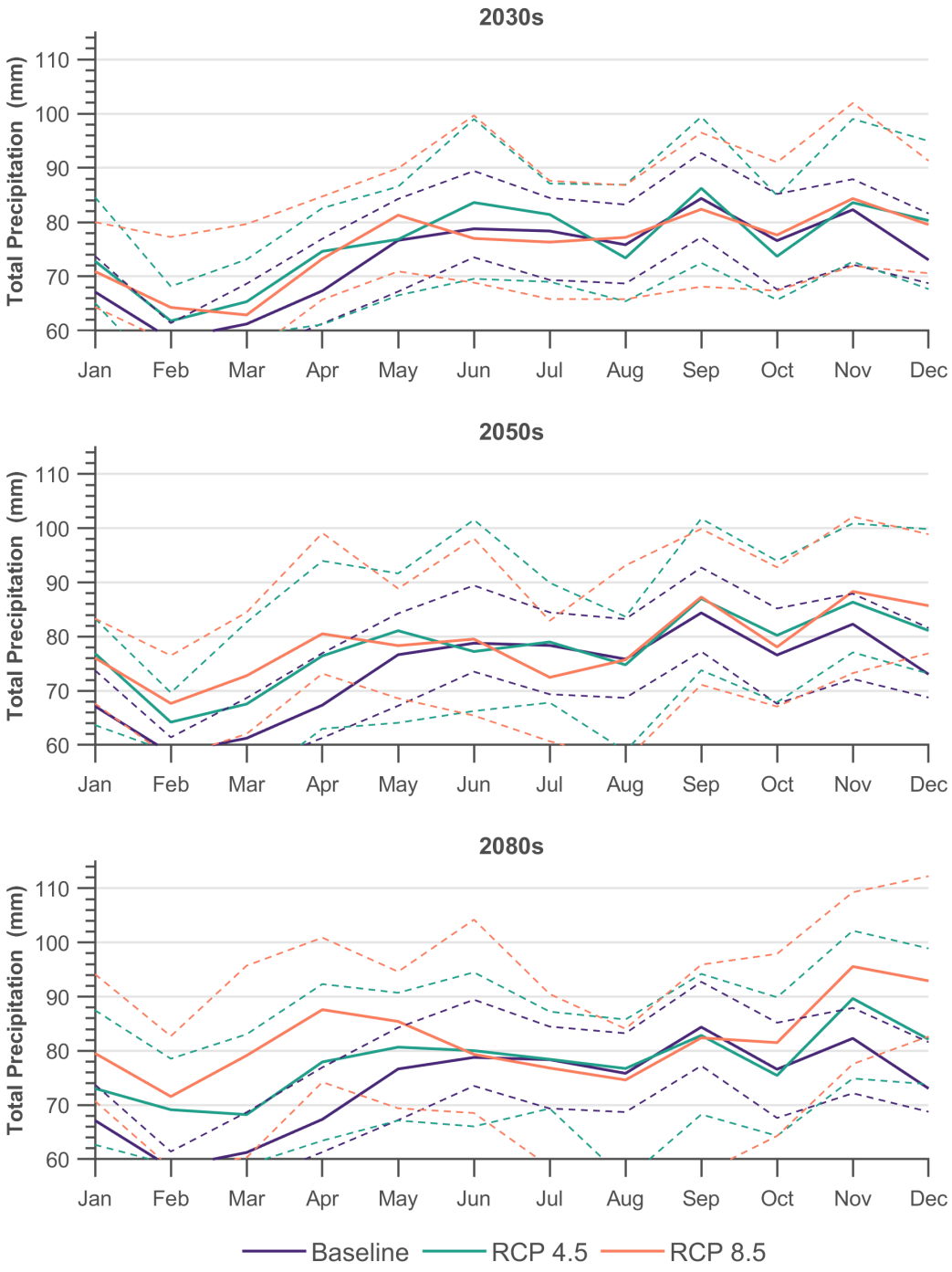


Figure F2.35: Monthly Total Precipitation. Dashed lines indicate the 10% and 90% percentile.

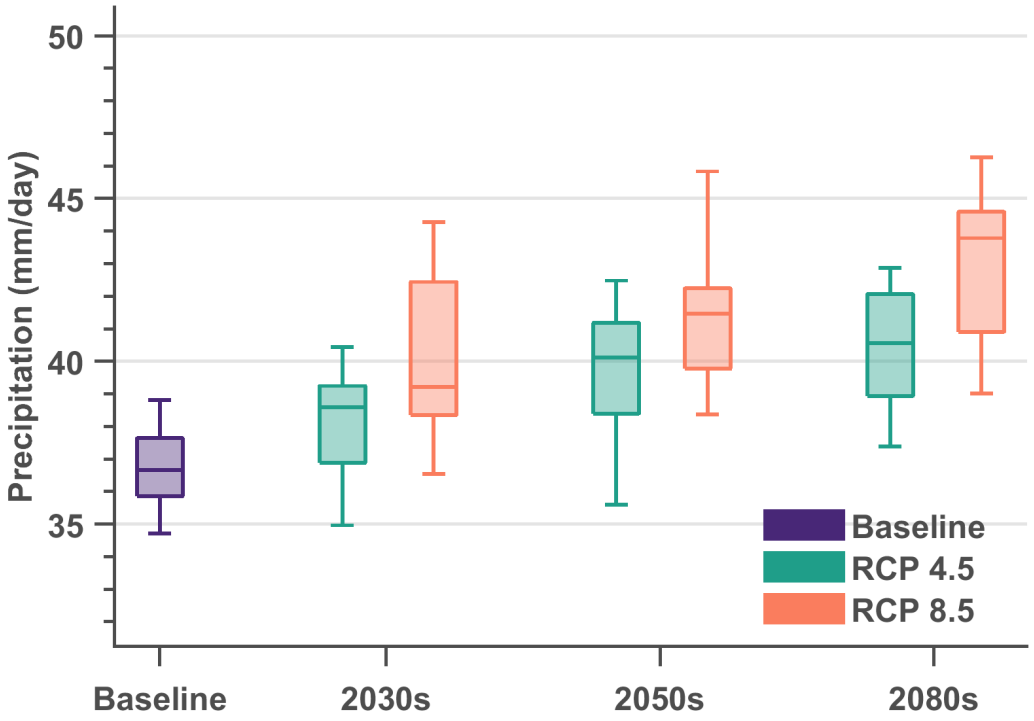


Figure F2.36: 1 in 2 Years 1-Day Precipitation.

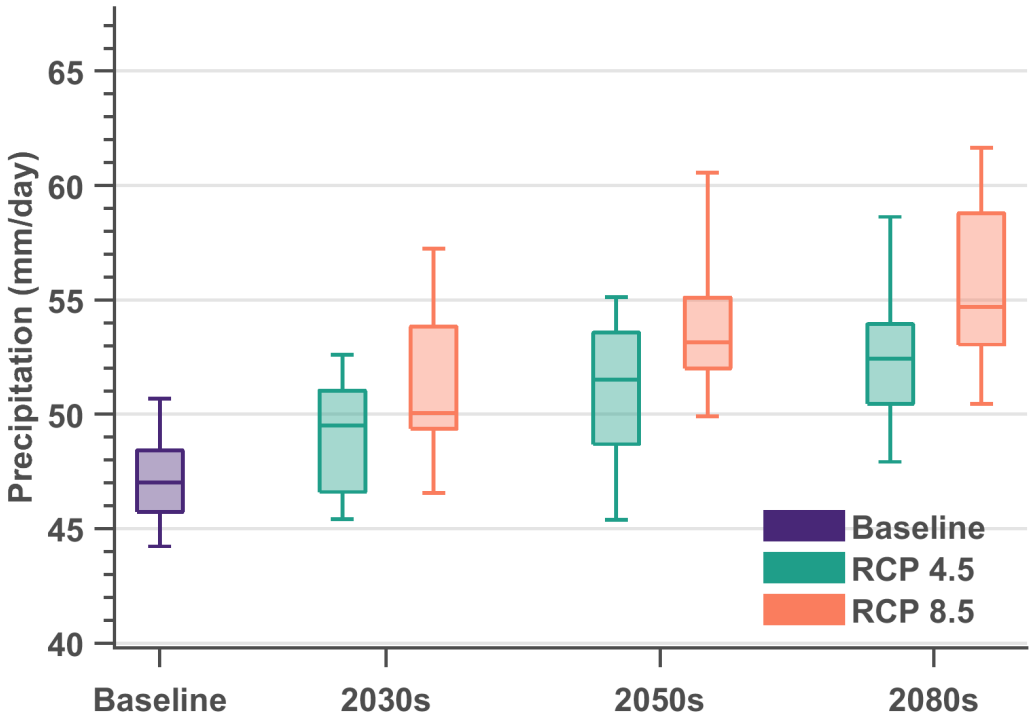


Figure F2.37: 1 in 5 Years 1-Day Precipitation.

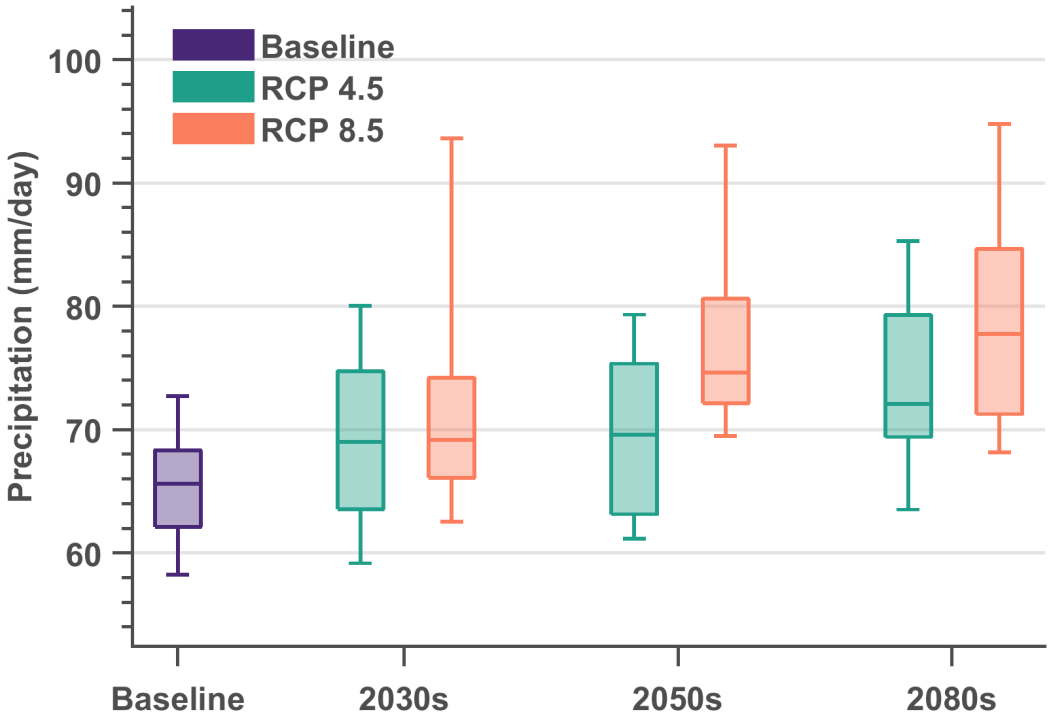


Figure F2.38: 1 in 20 Years 1-Day Precipitation.

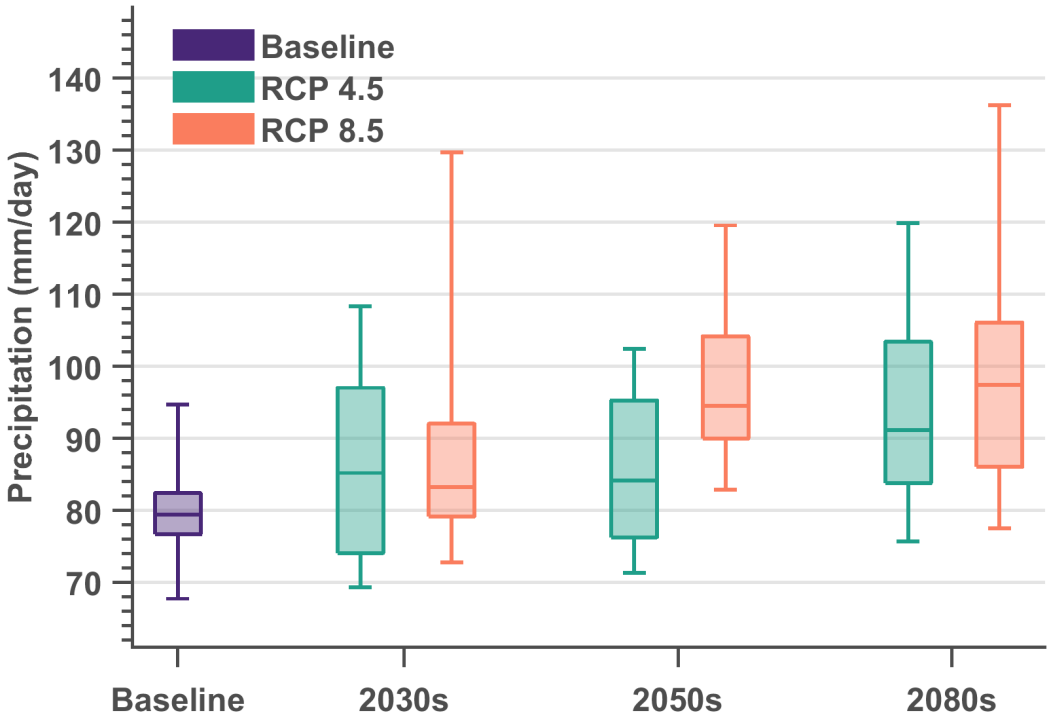


Figure F2.39: 1 in 50 Years 1-Day Precipitation.

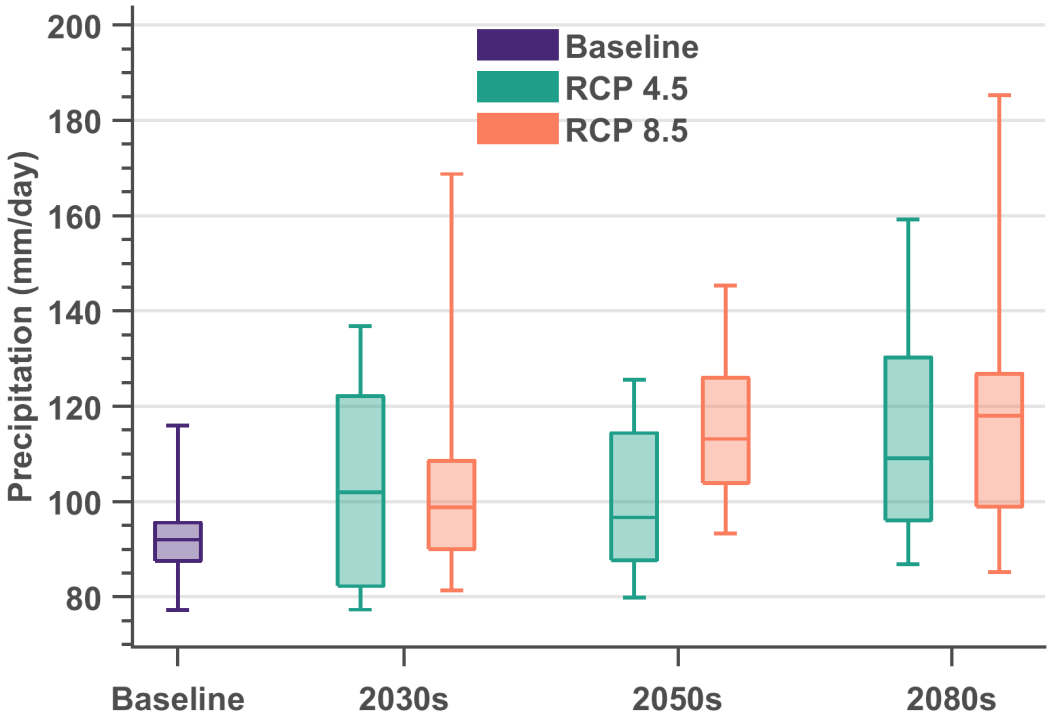


Figure F2.40: 1 in 100 Years 1-Day Precipitation.

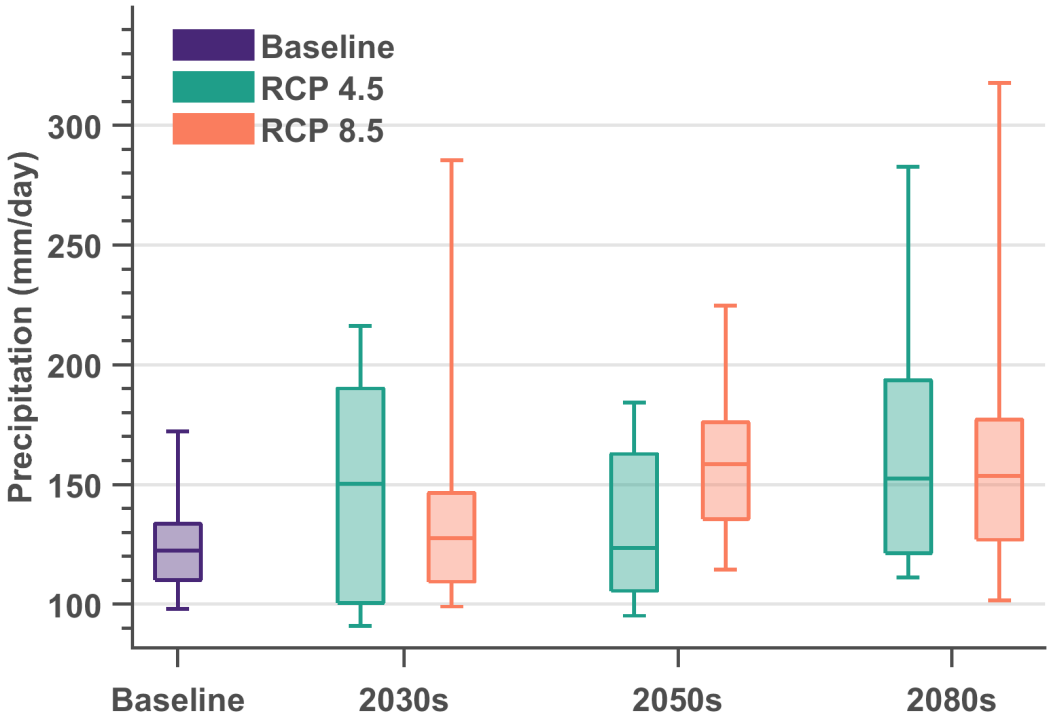


Figure F2.41: 1 in 350 Years 1-Day Precipitation.

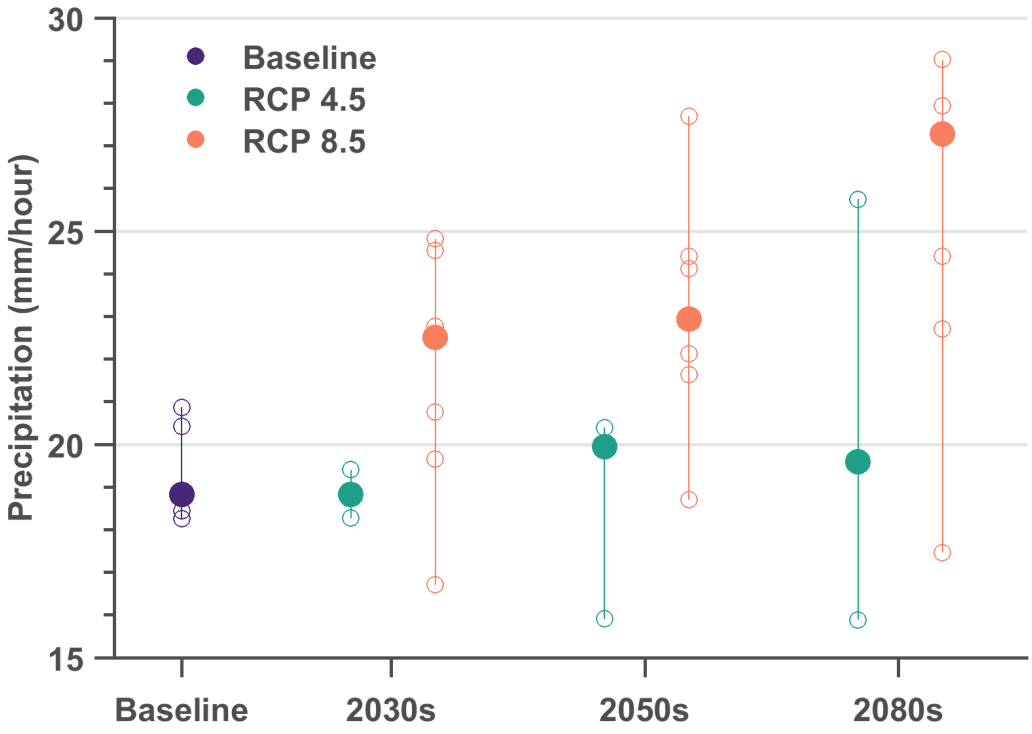


Figure F2.42: 1 in 2 Years 1-Hour Precipitation.

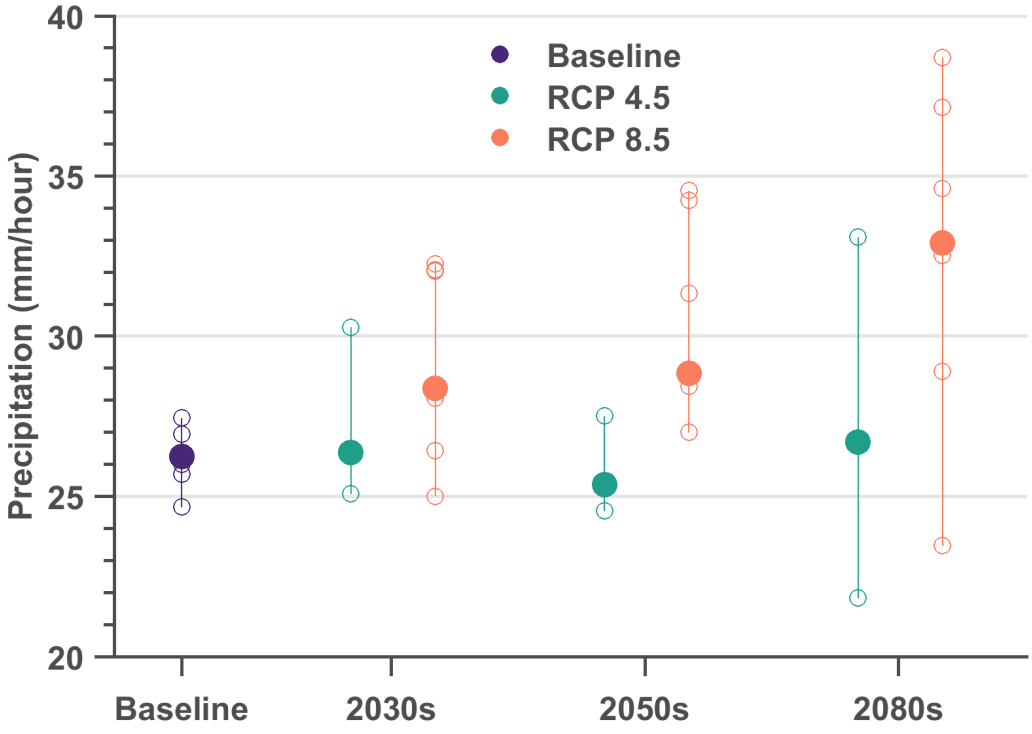


Figure F2.43: 1 in 5 Years 1-Hour Precipitation.

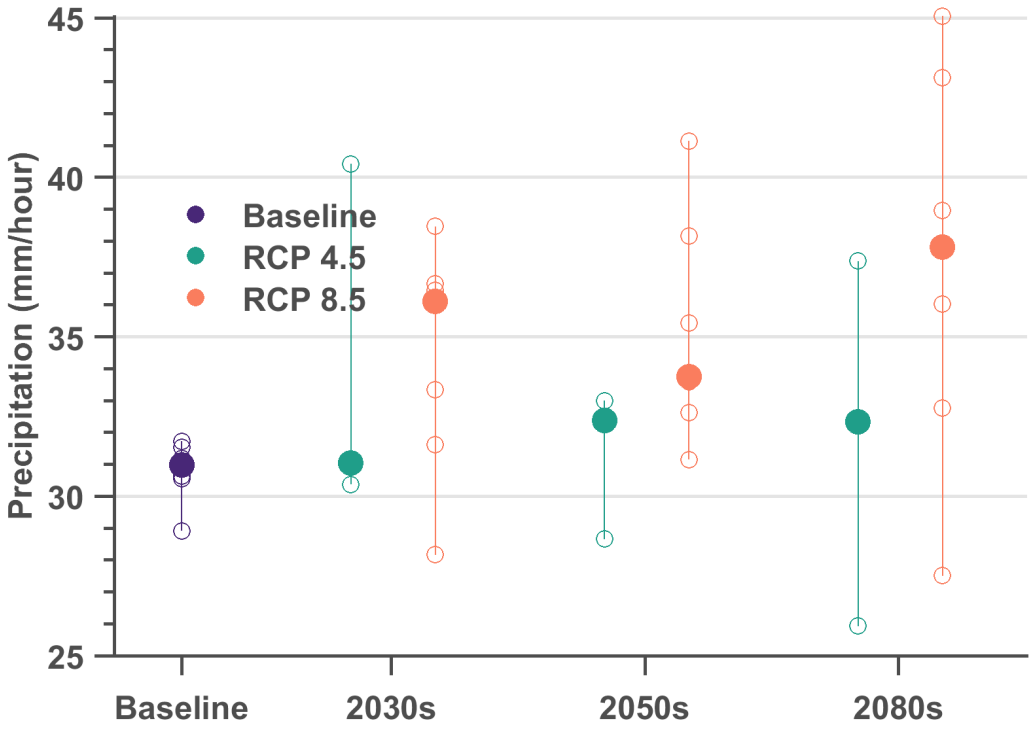


Figure F2.44: 1 in 10 Years 1-Hour Precipitation.

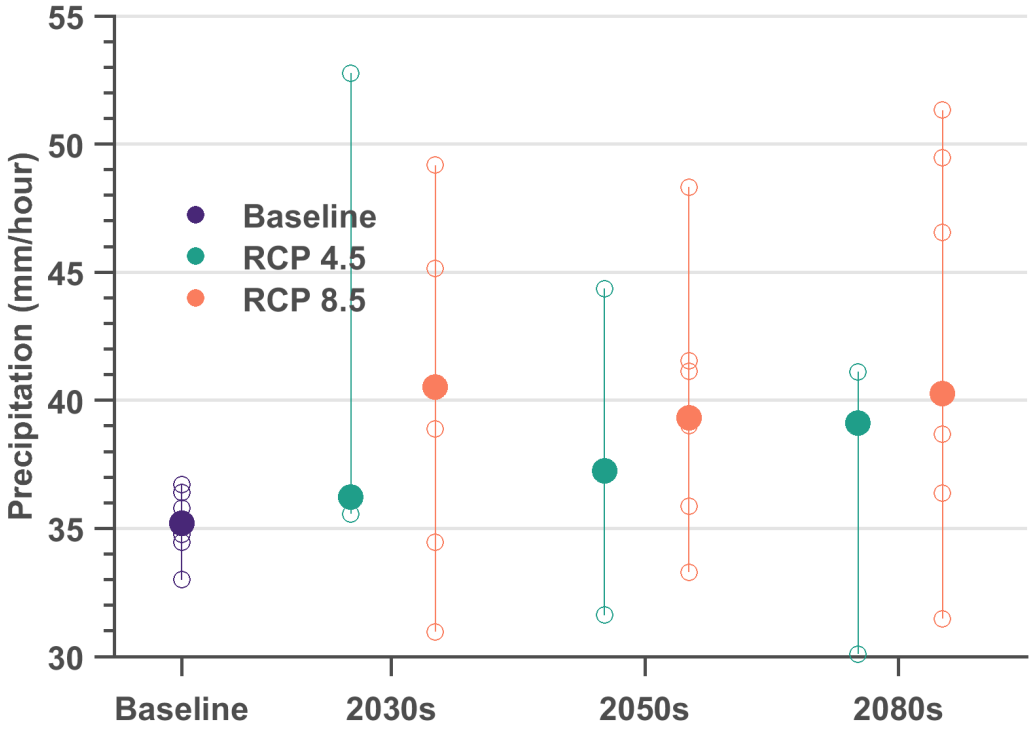


Figure F2.45: 1 in 20 Years 1-Hour Precipitation.

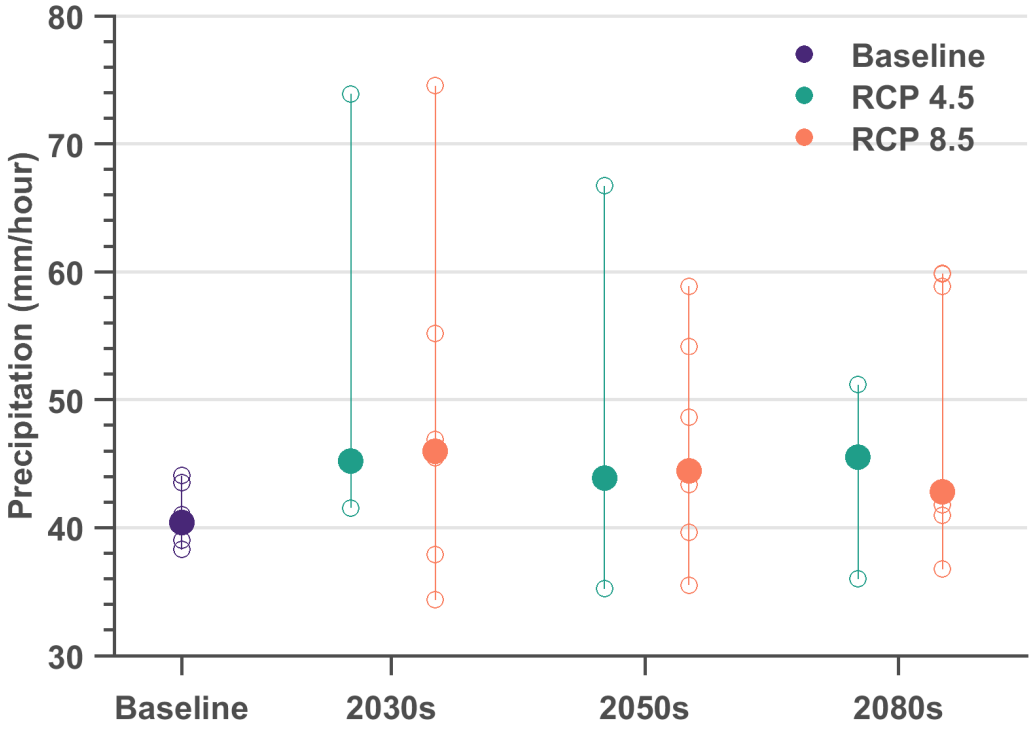


Figure F2.46: 1 in 50 Years 1-Hour Precipitation.

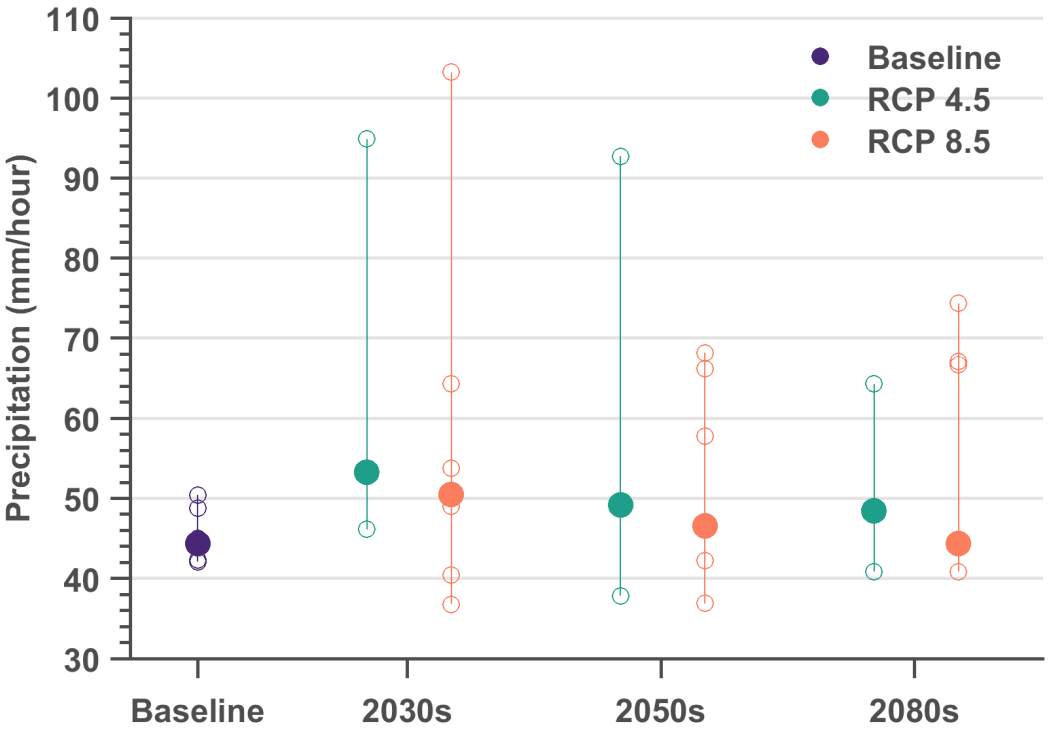


Figure F2.47: 1 in 100 Years 1-Hour Precipitation.

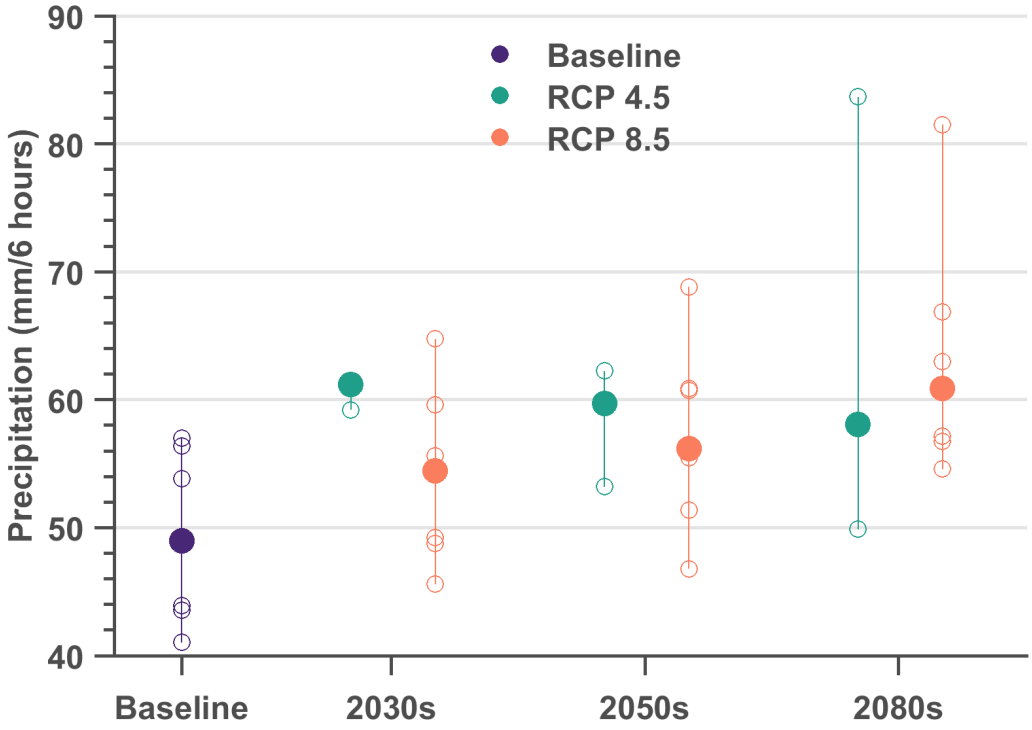


Figure F2.48: 1 in 2 Years 6-Hour Precipitation.

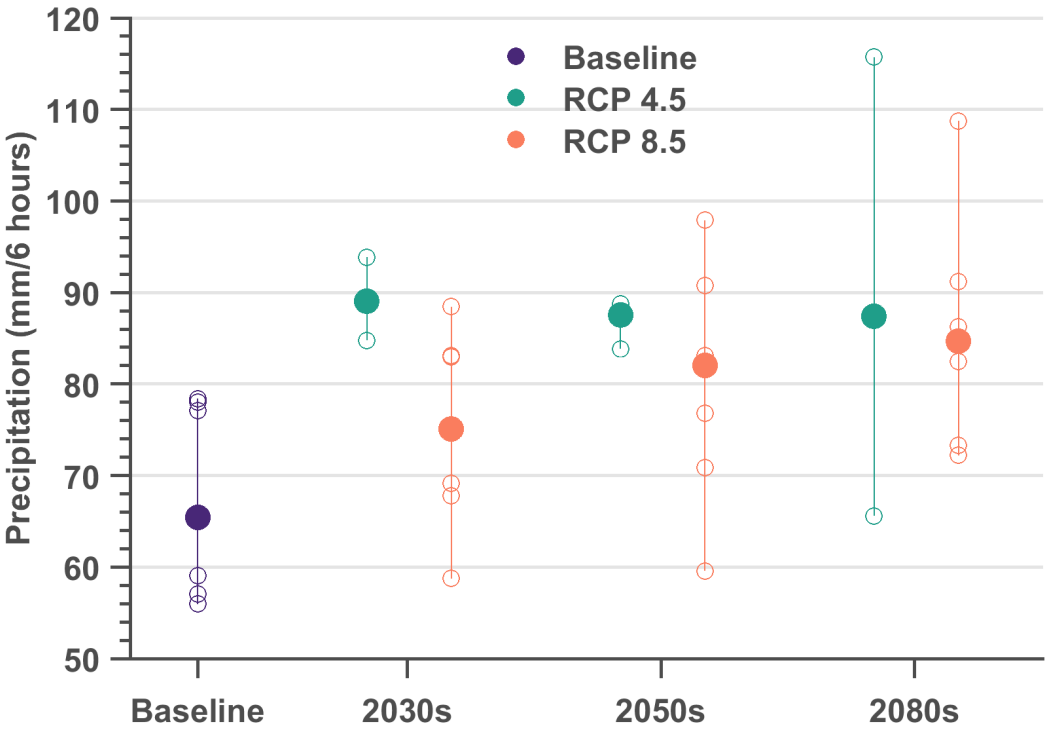


Figure F2.49: 1 in 5 Years 6-Hour Precipitation.

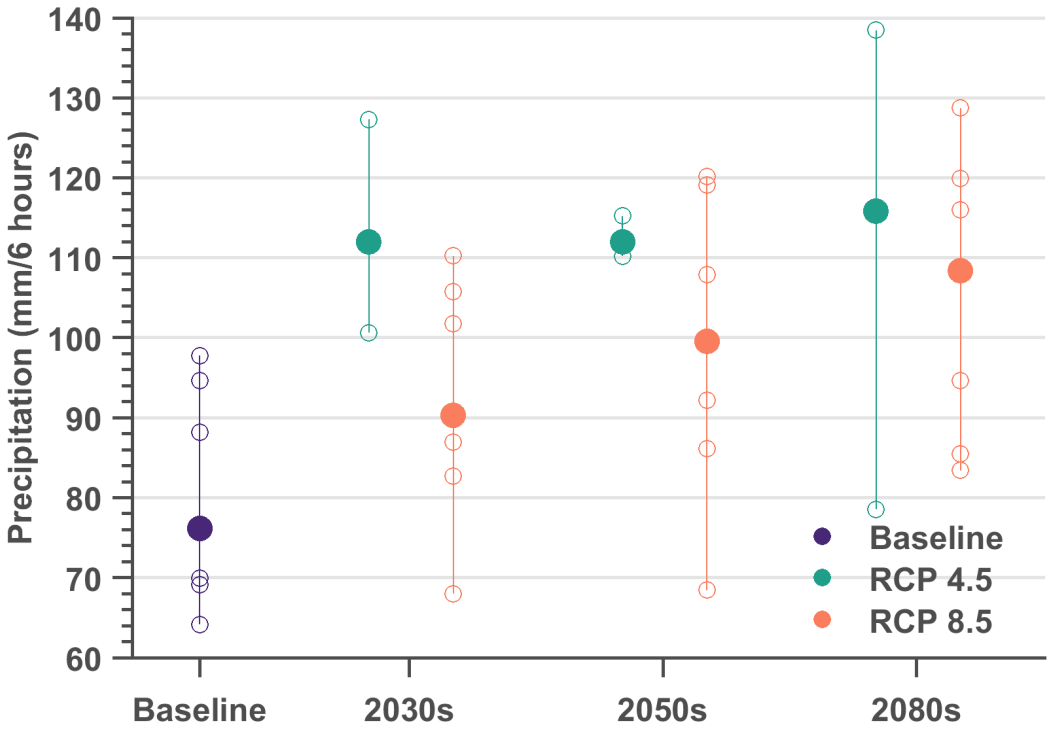


Figure F2.50: 1 in 10 Years 6-Hour Precipitation.

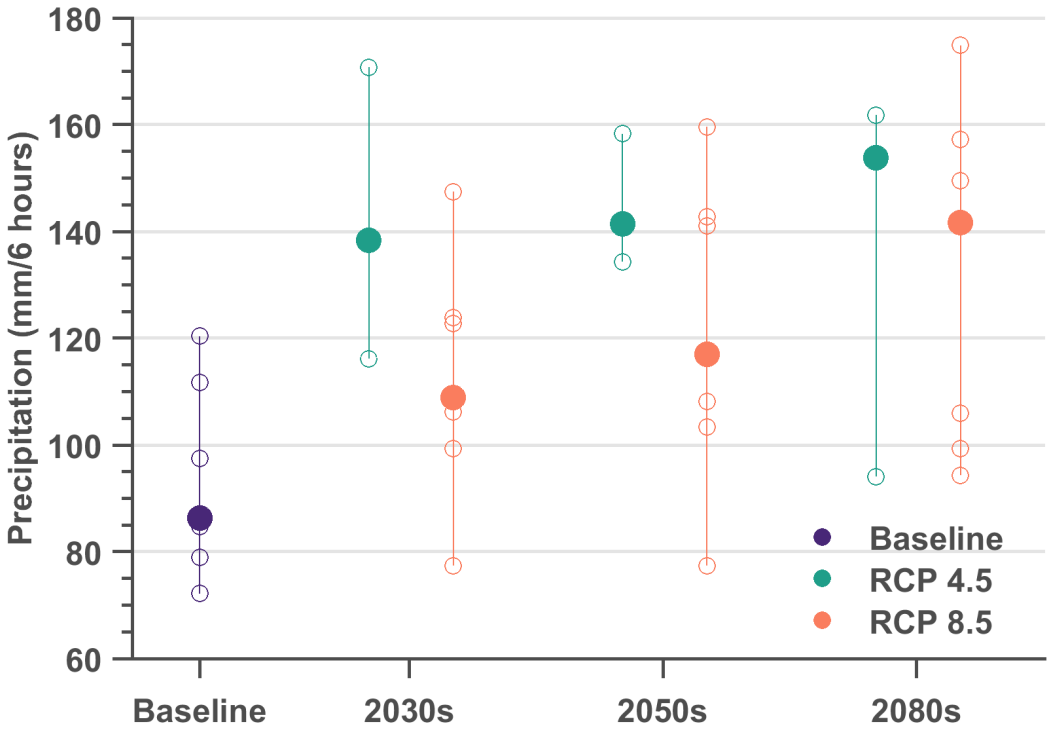


Figure F2.51: 1 in 20 Years 6-Hour Precipitation.

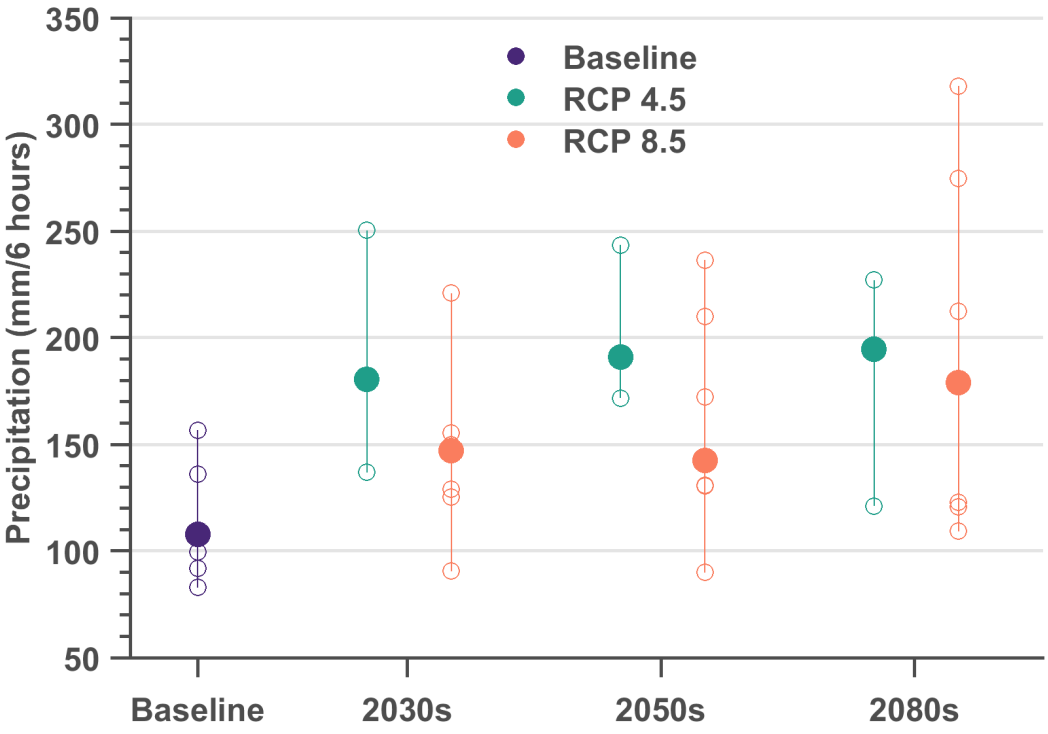


Figure F2.52: 1 in 50 Years 6-Hour Precipitation.

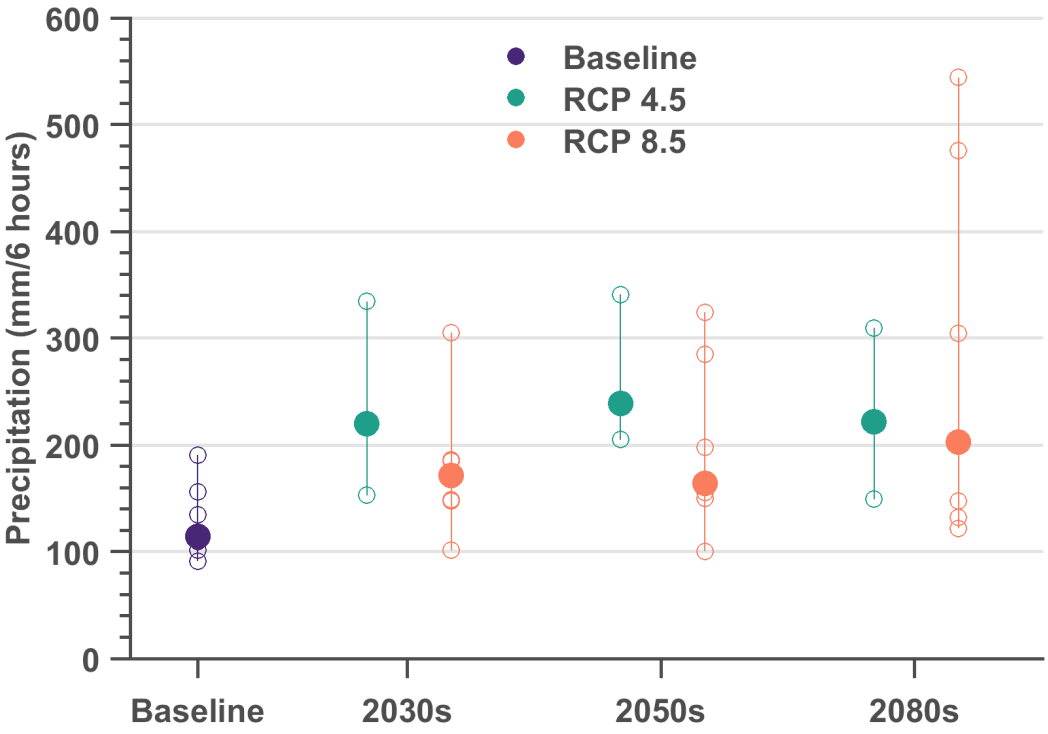


Figure F2.53: 1 in 100 Years 6-Hour Precipitation.

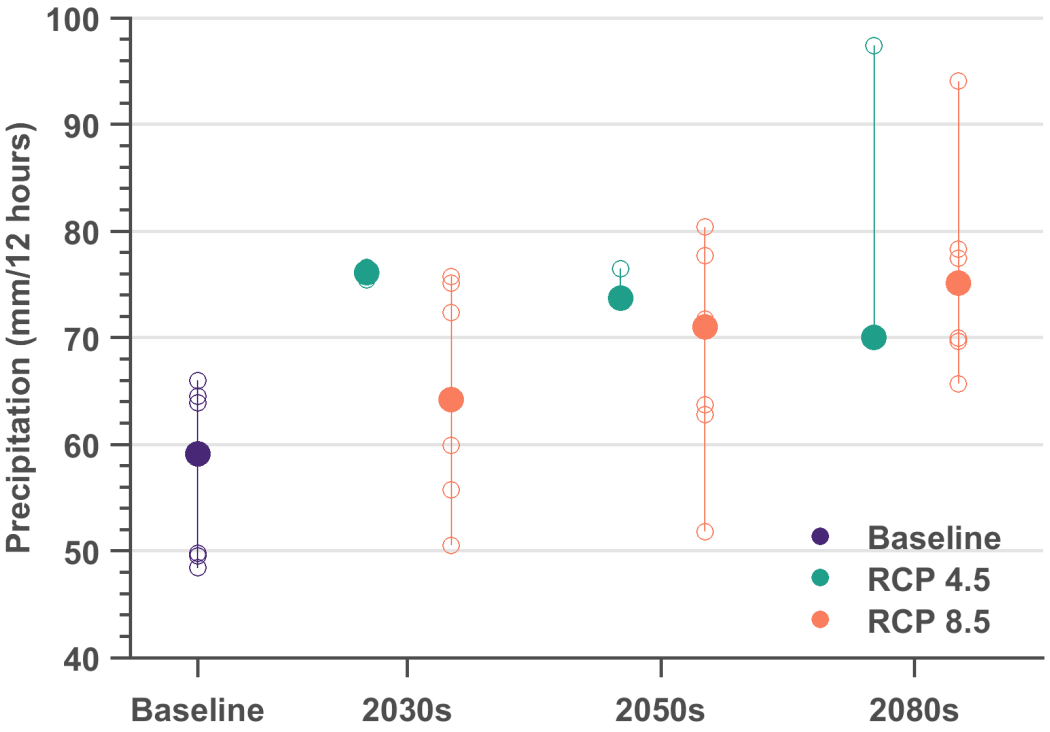


Figure F2.54: 1 in 2 Years 12-Hour Precipitation.

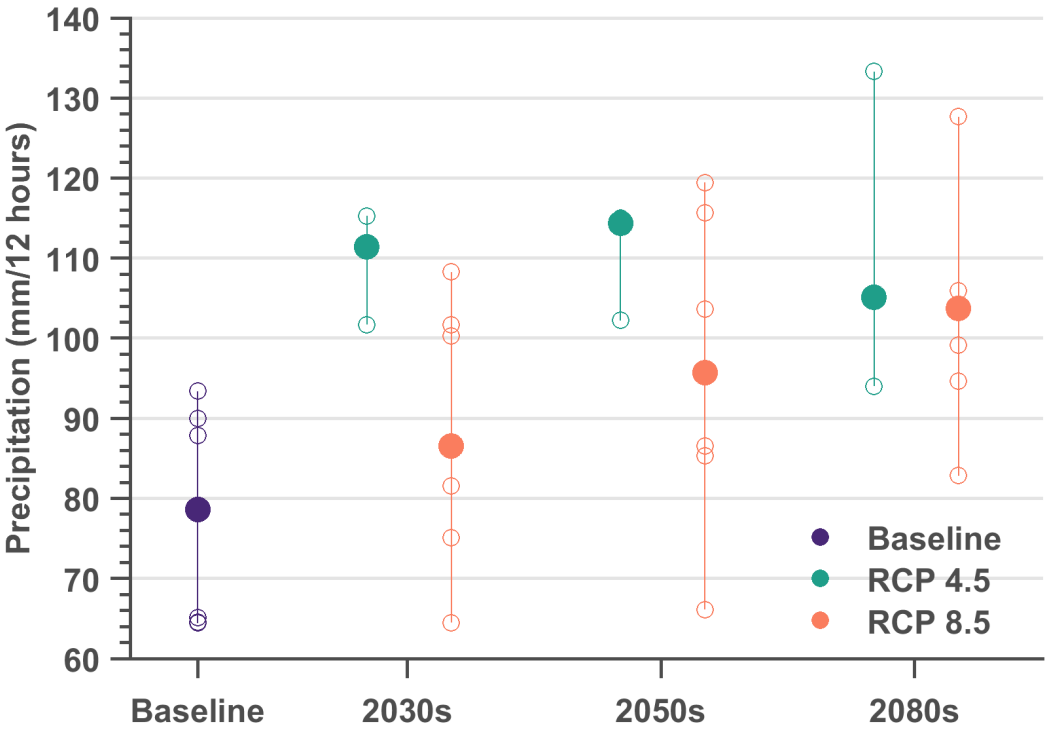


Figure F2.55: 1 in 5 Years 12-Hour Precipitation.

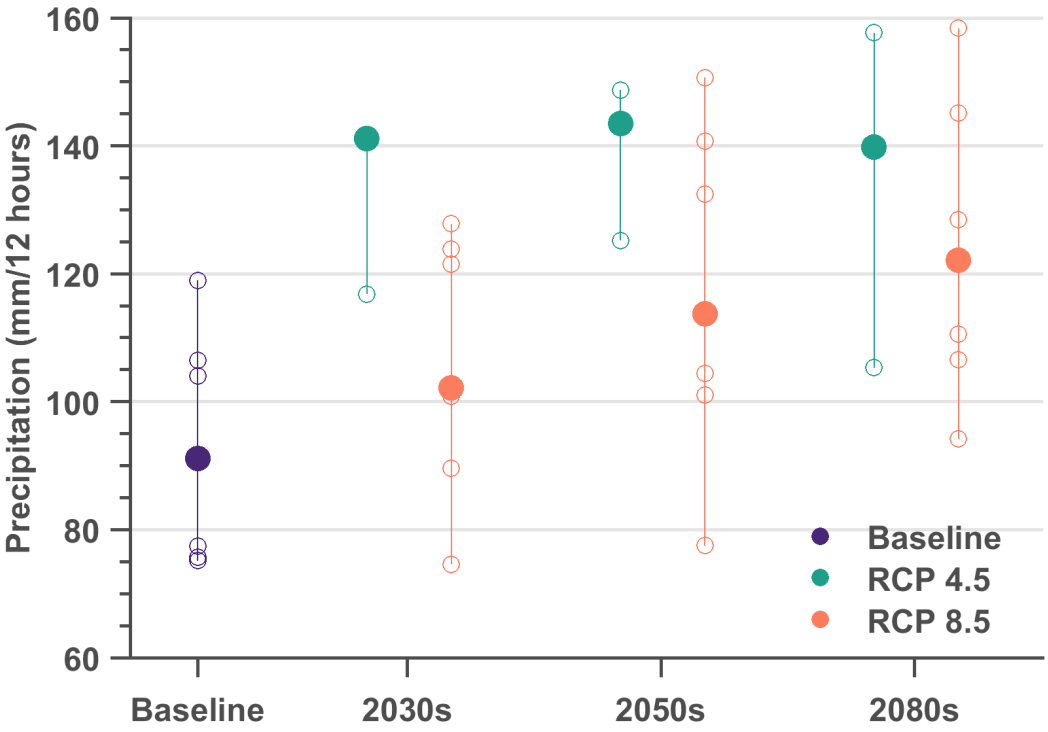


Figure F2.56: 1 in 10 Years 12-Hour Precipitation.

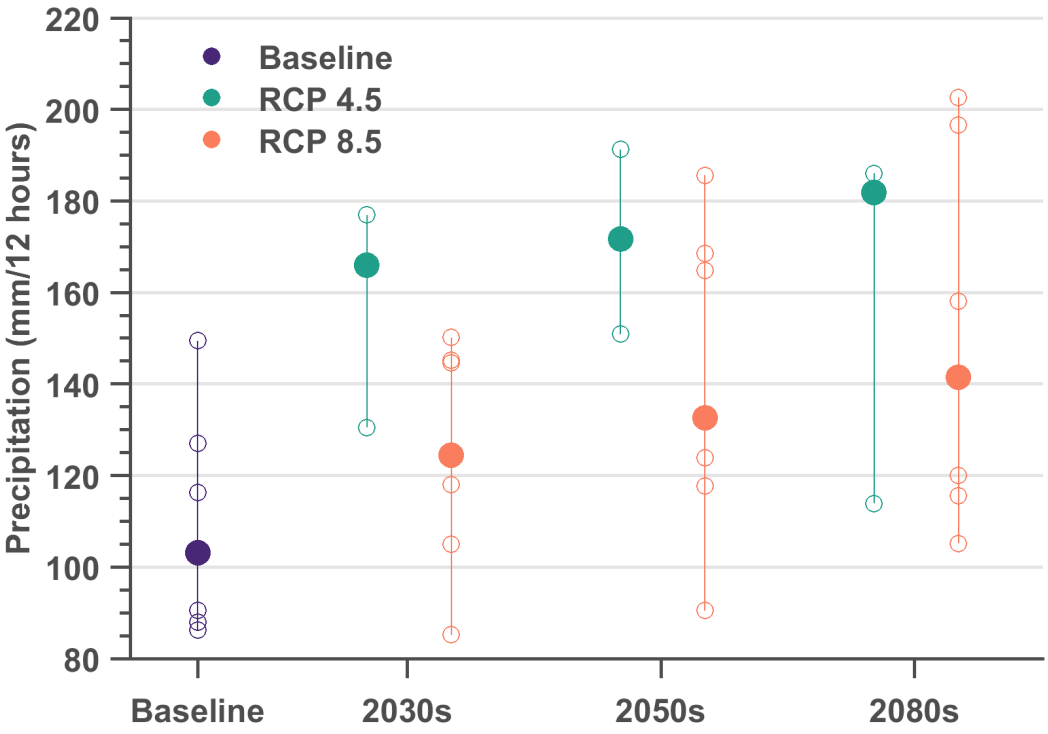


Figure F2.57: 1 in 20 Years 12-Hour Precipitation.

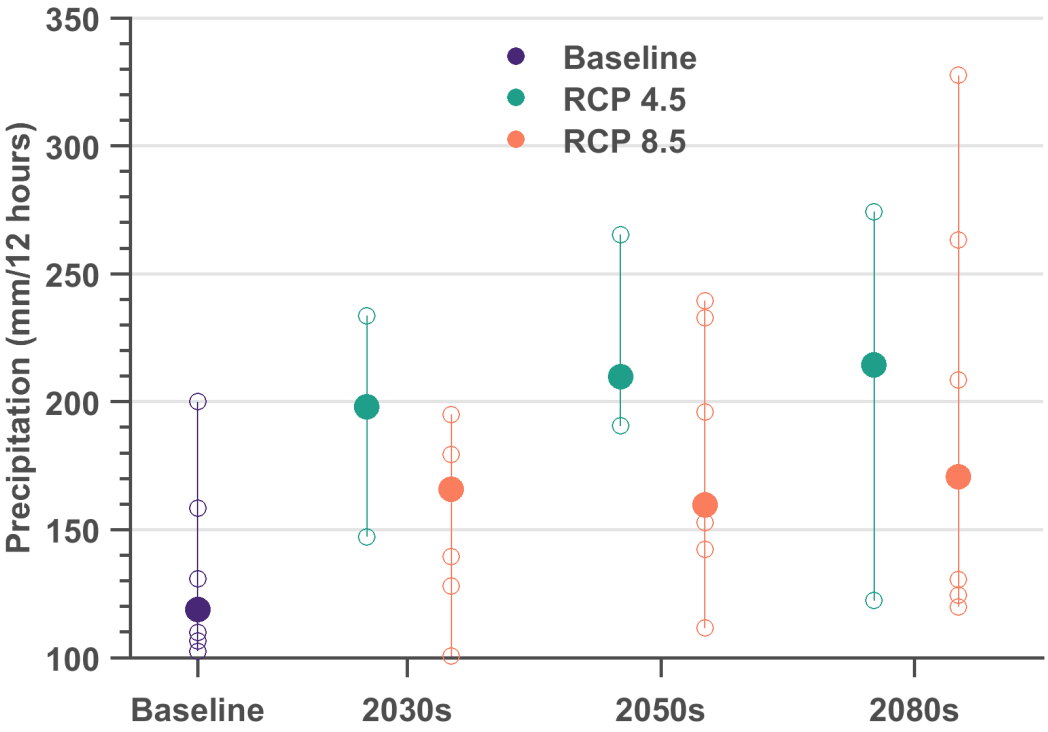


Figure F2.58: 1 in 50 Years 12-Hour Precipitation.

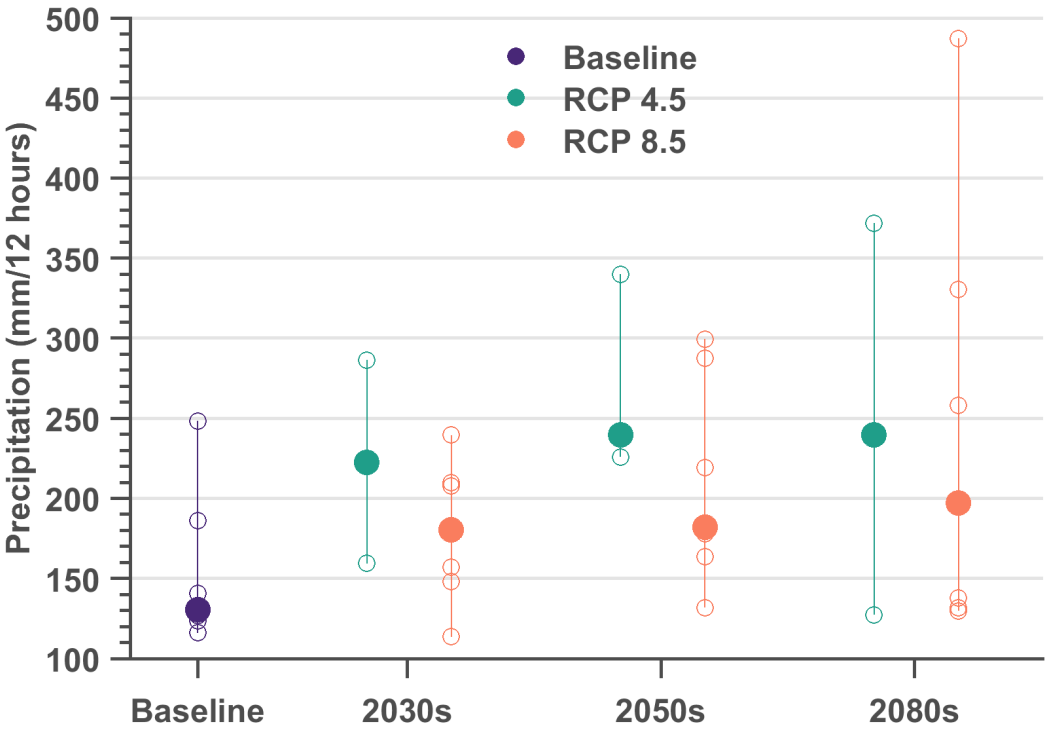


Figure F2.59: 1 in 100 Years 12-Hour Precipitation.

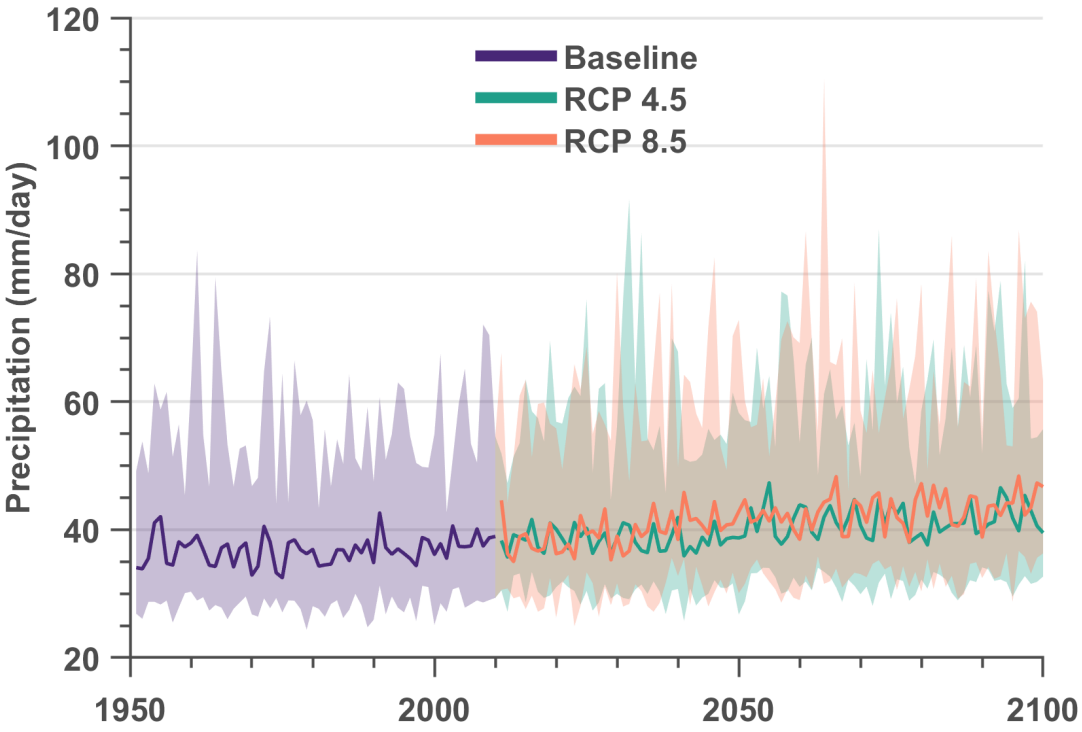


Figure F2.60: Annual Max. 1-Day Precipitation.

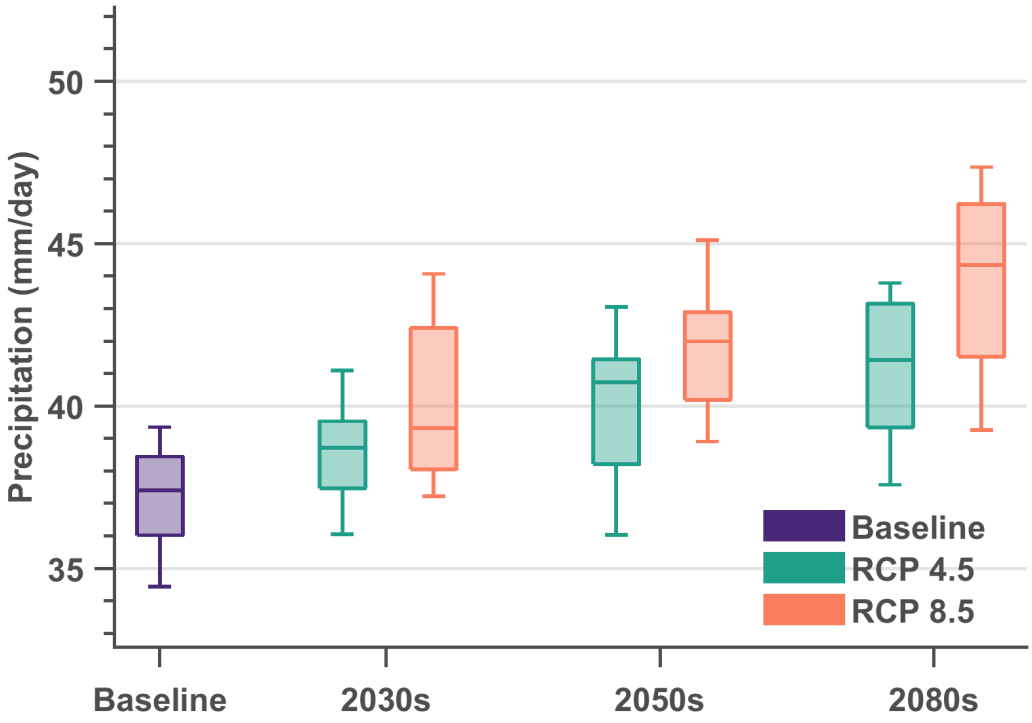


Figure F2.61: Annual Max. 1-Day Precipitation.

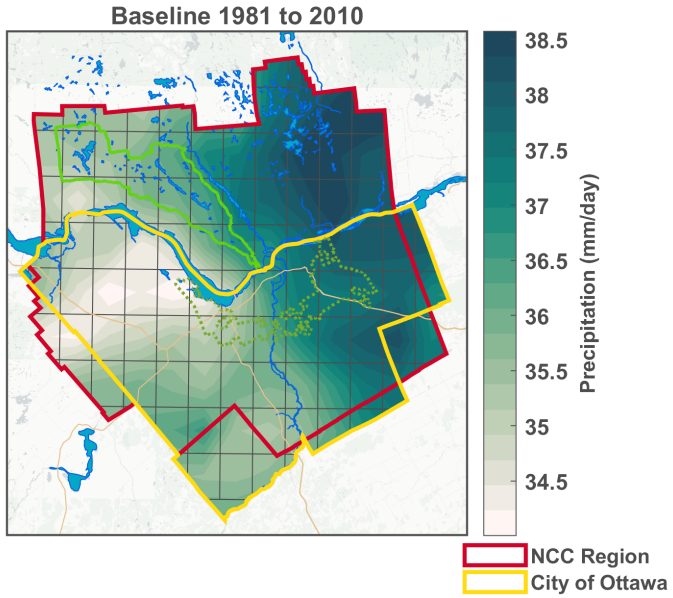


Figure F2.62: Annual Max. 1-Day Precipitation - Baseline.

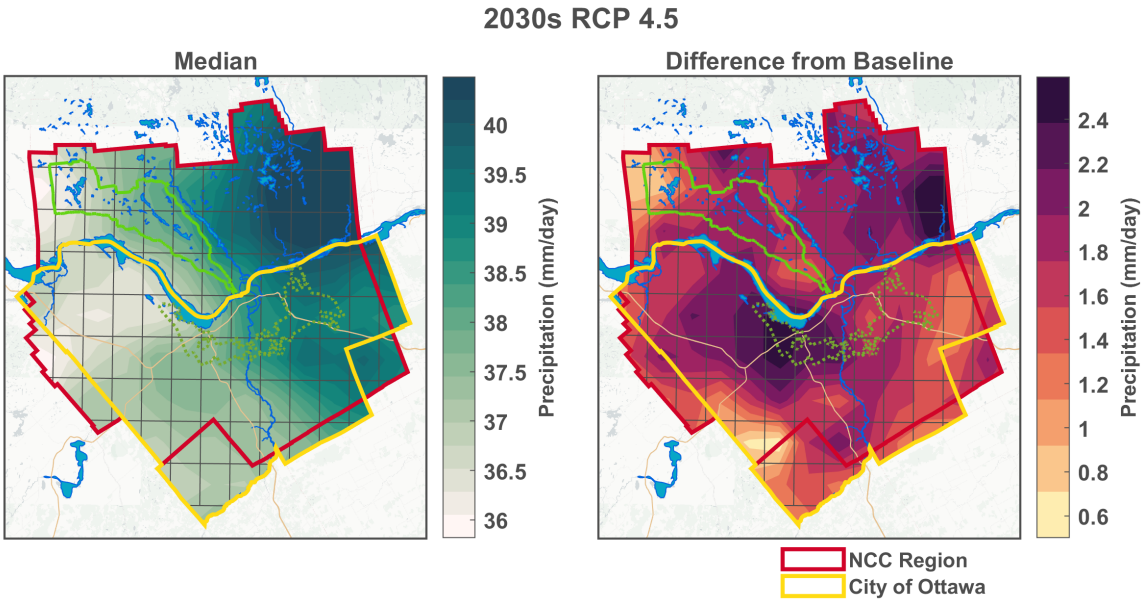


Figure F2.63: Annual Max. 1-Day Precipitation - 2030s RCP 4.5.

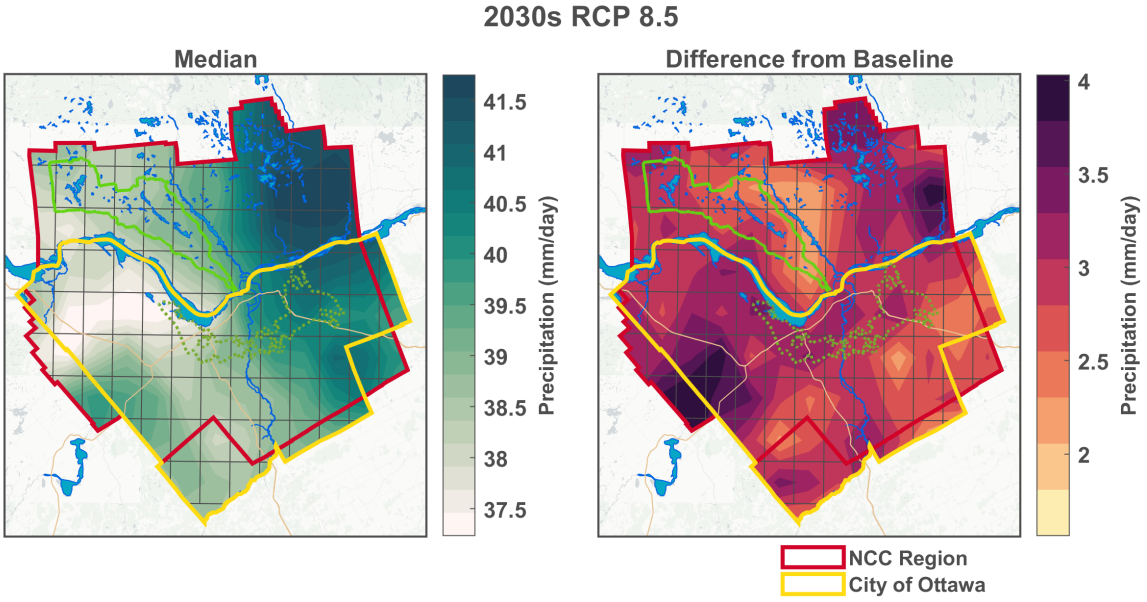


Figure F2.64: Annual Max. 1-Day Precipitation - 2030s RCP 8.5.

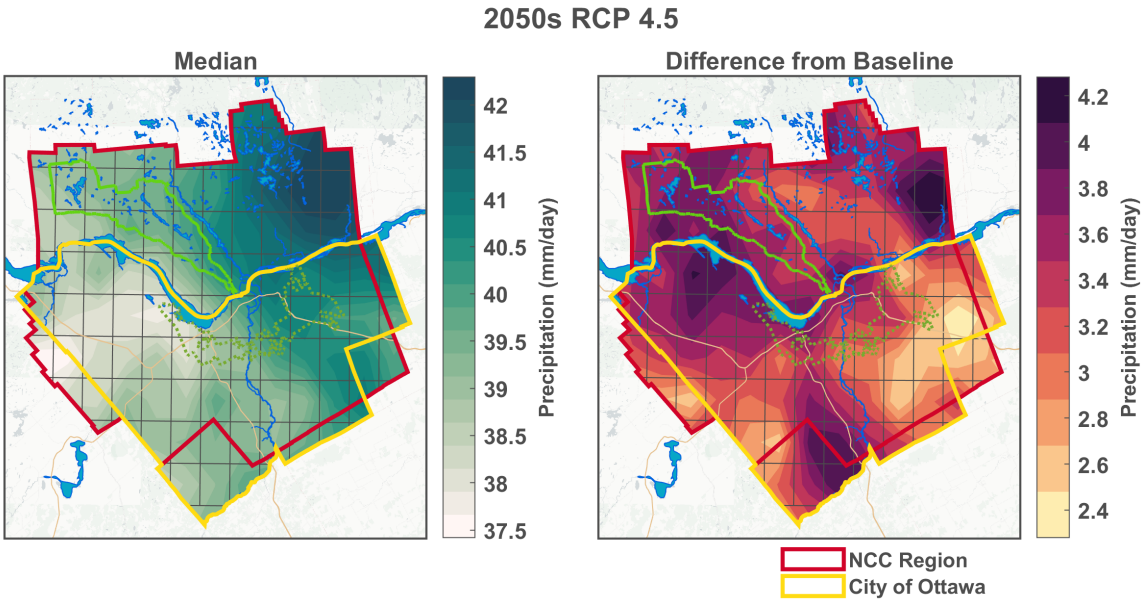


Figure F2.65: Annual Max. 1-Day Precipitation - 2050s RCP 4.5.

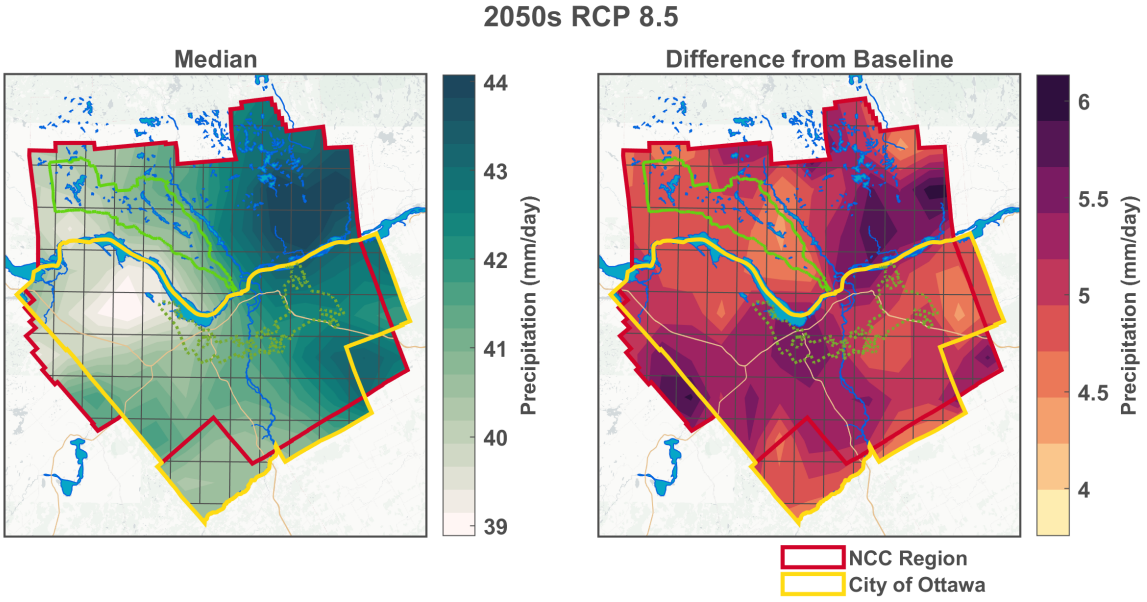


Figure F2.66: Annual Max. 1-Day Precipitation - 2050s RCP 8.5.

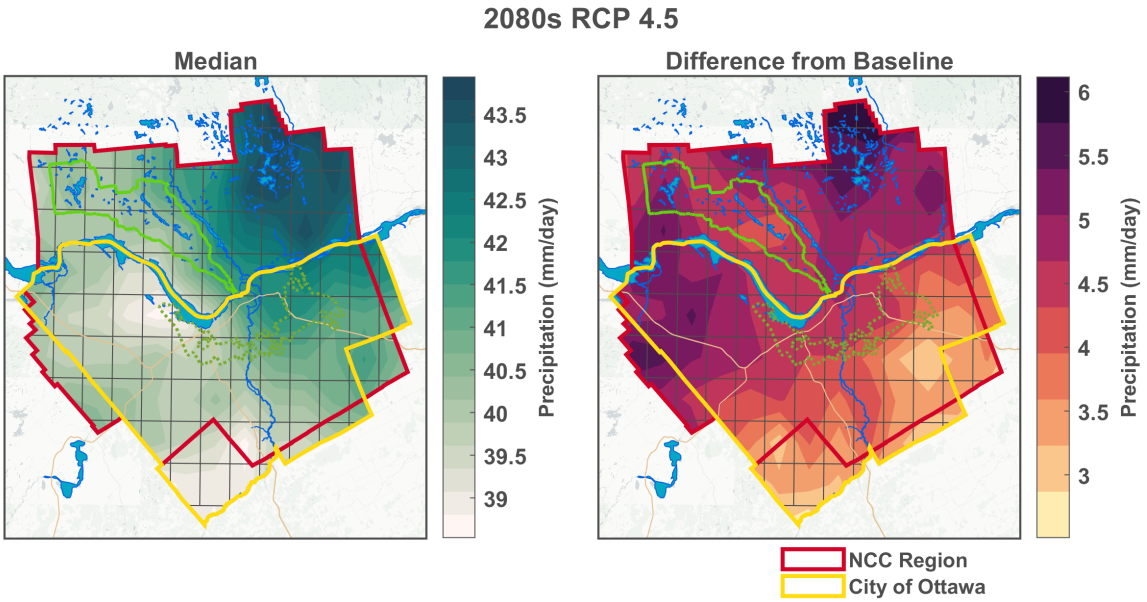


Figure F2.67: Annual Max. 1-Day Precipitation - 2080s RCP 4.5.

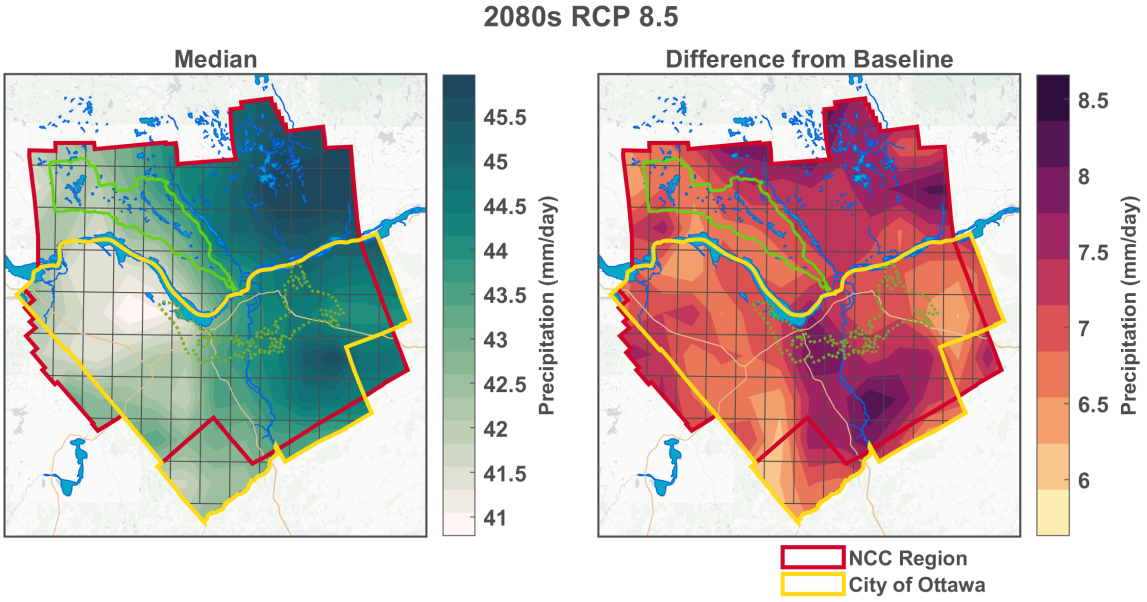


Figure F2.68: Annual Max. 1-Day Precipitation - 2080s RCP 8.5.

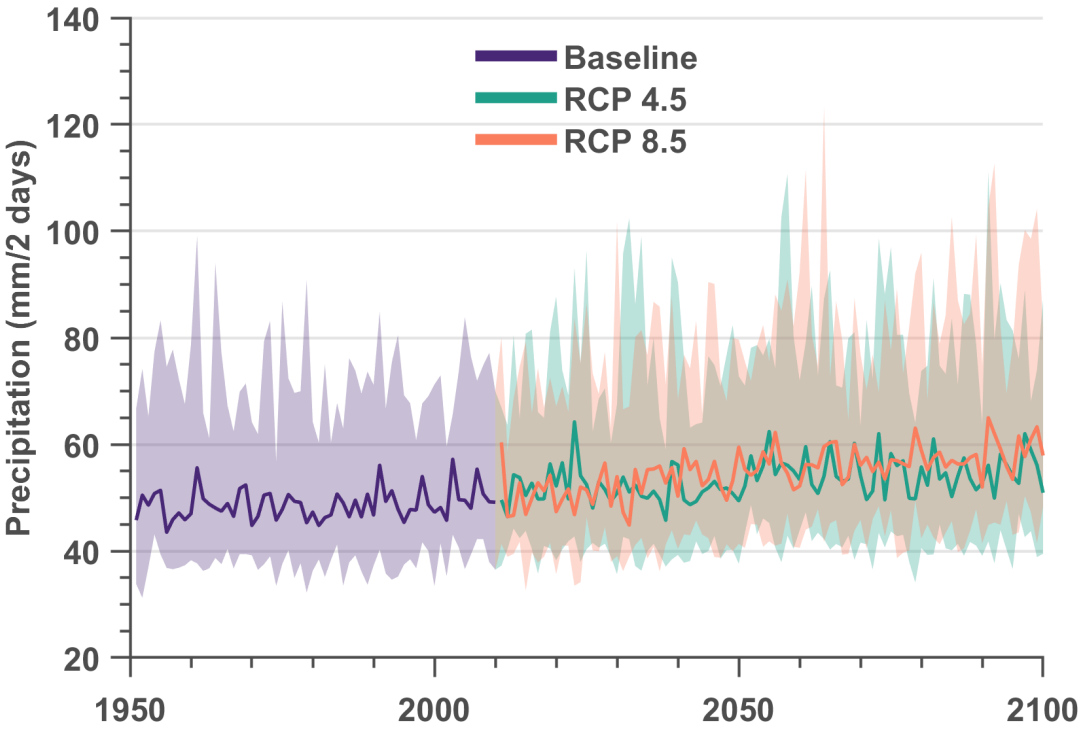


Figure F2.69: Annual Max. 2-Day Precipitation.

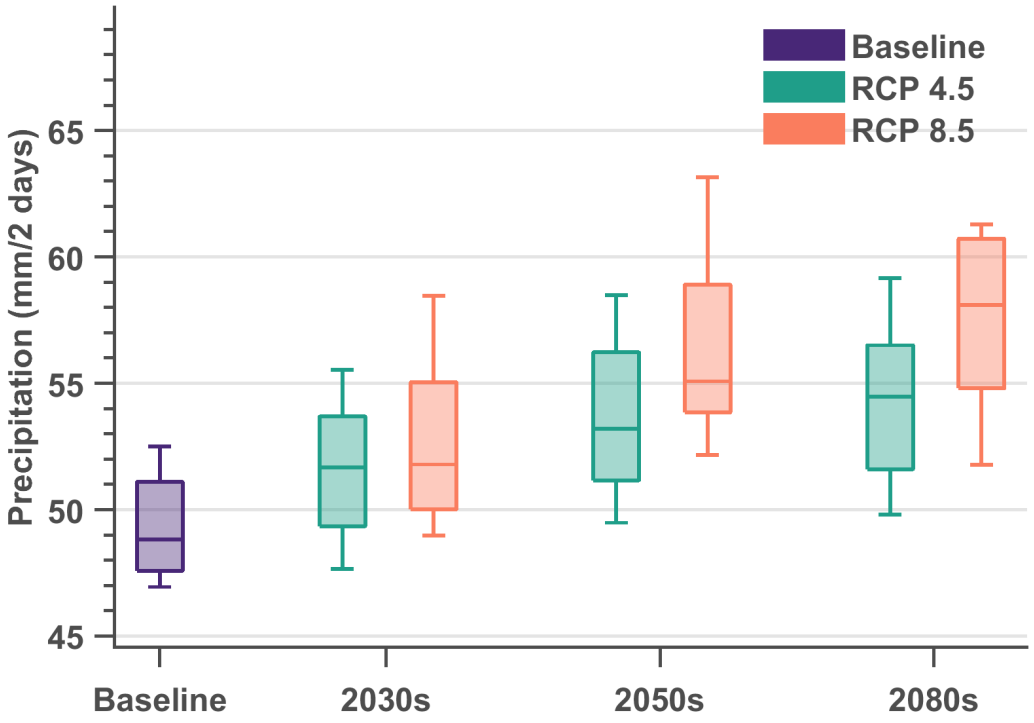


Figure F2.70: Annual Max. 2-Day Precipitation.

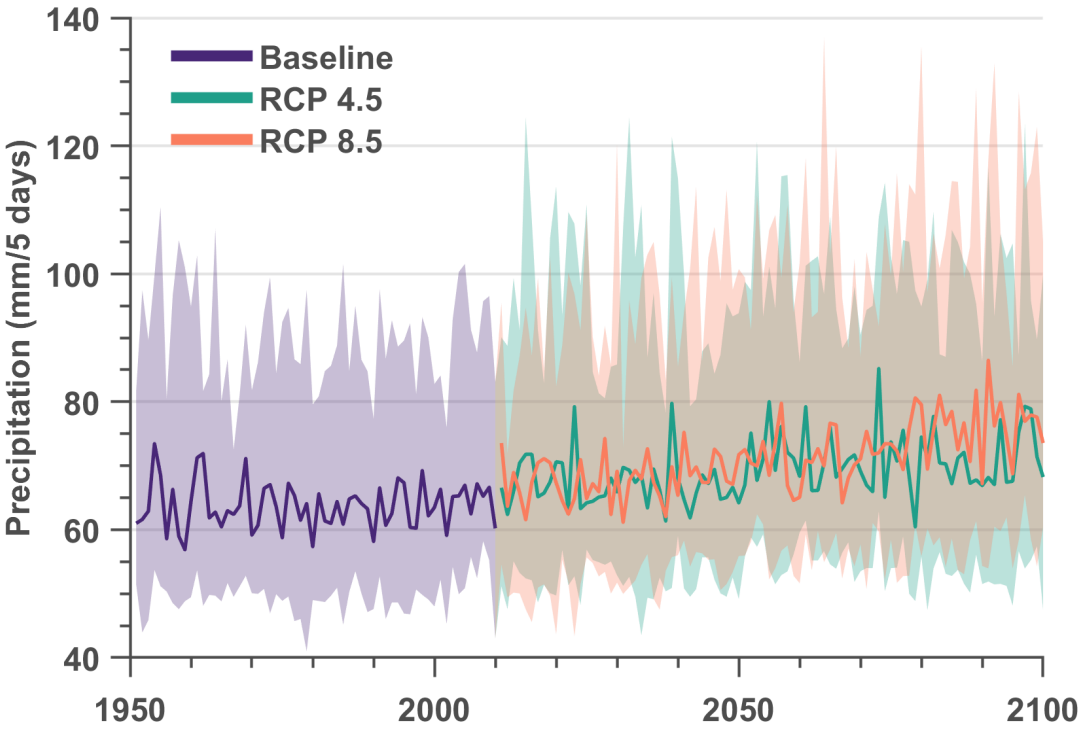


Figure F2.71: Annual Max. 5-Day Precipitation.

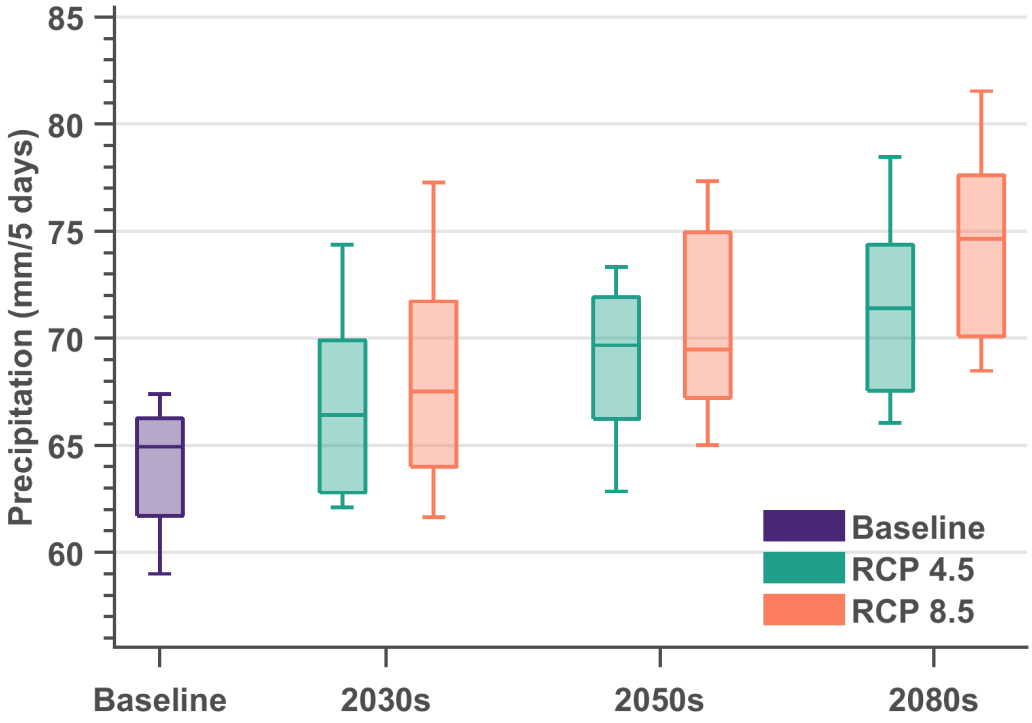


Figure F2.72: Annual Max. 5-Day Precipitation.

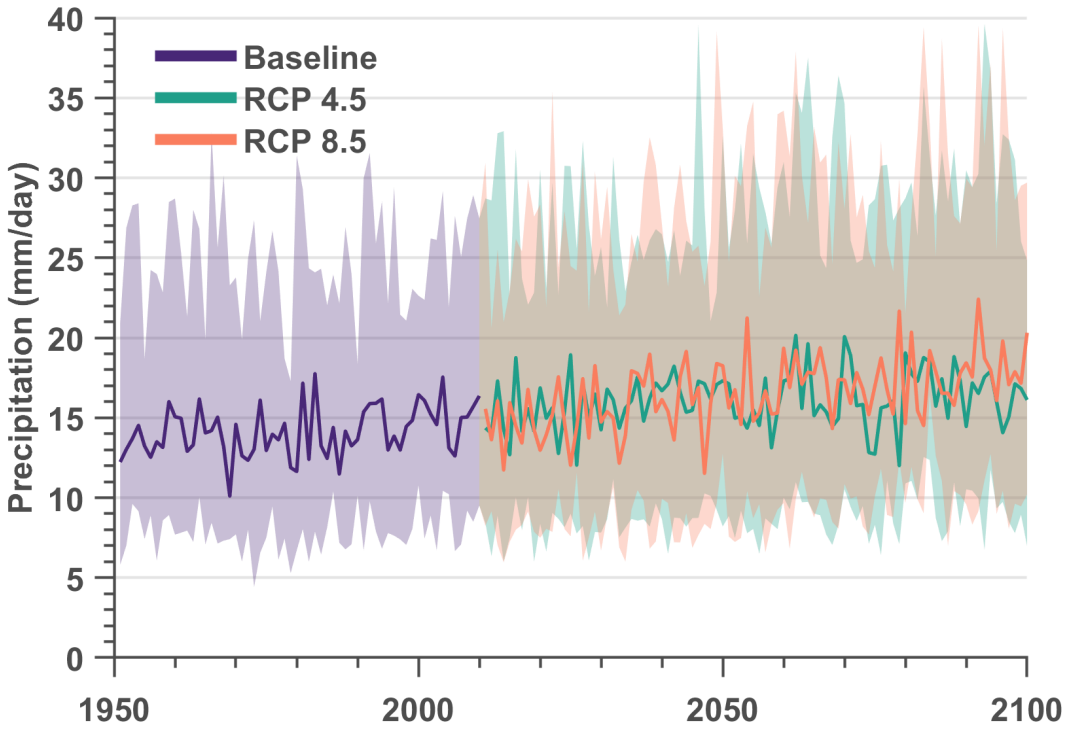


Figure F2.73: Monthly Max. 1-Day Precipitation - January.

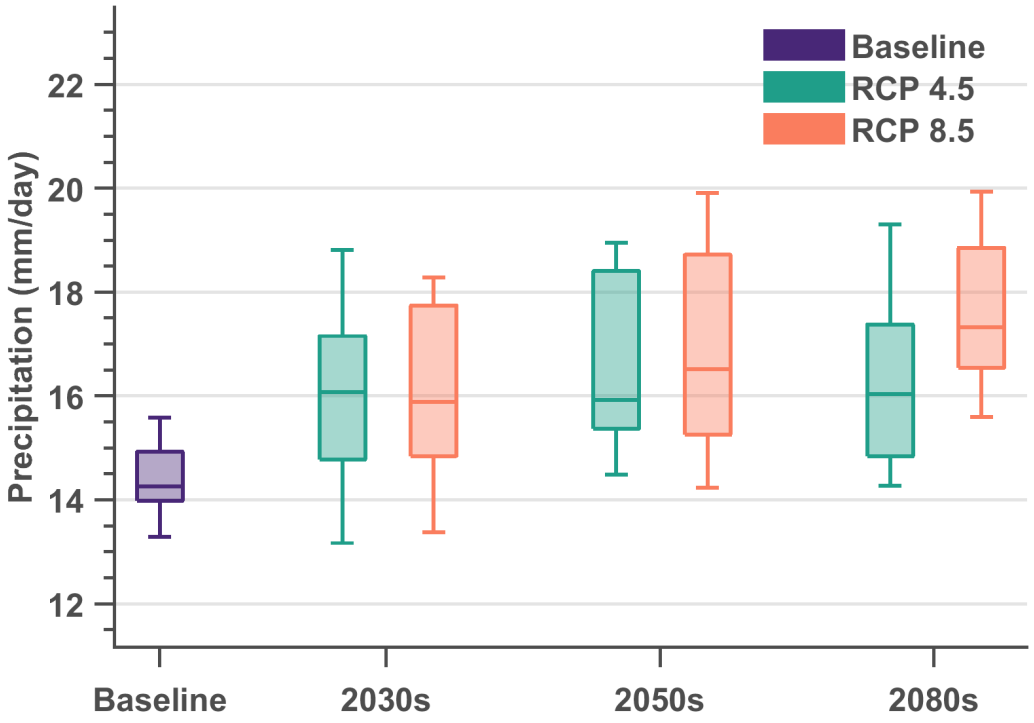


Figure F2.74: Monthly Max. 1-Day Precipitation - January.

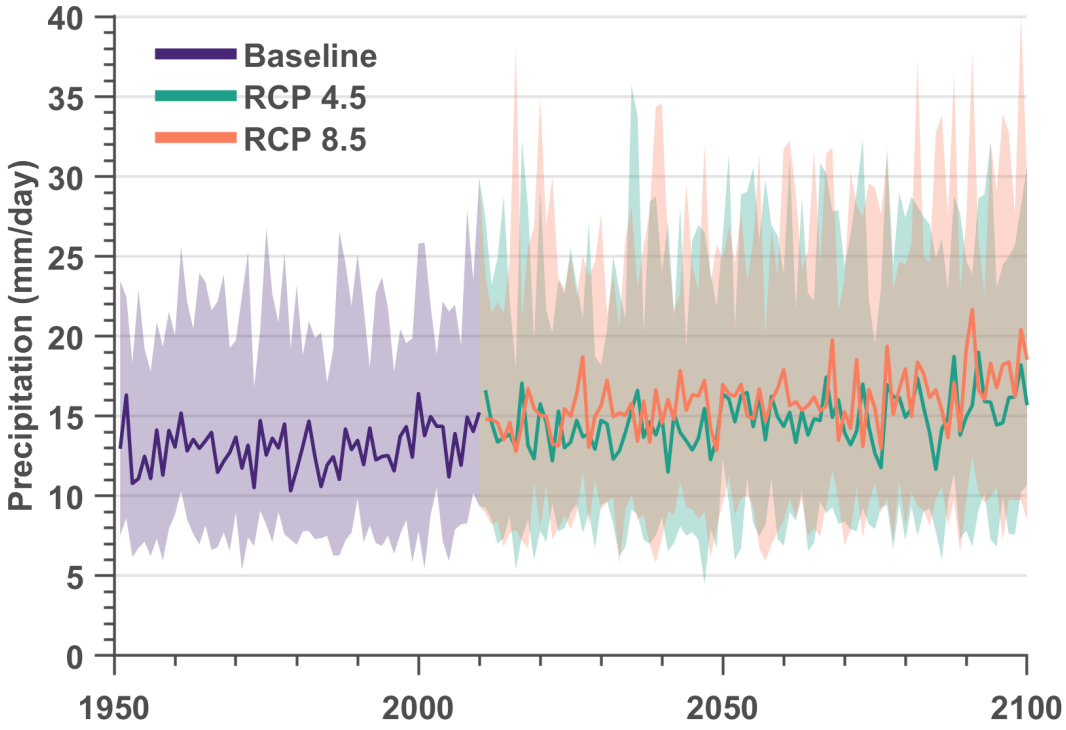


Figure F2.75: Monthly Max. 1-Day Precipitation - February.

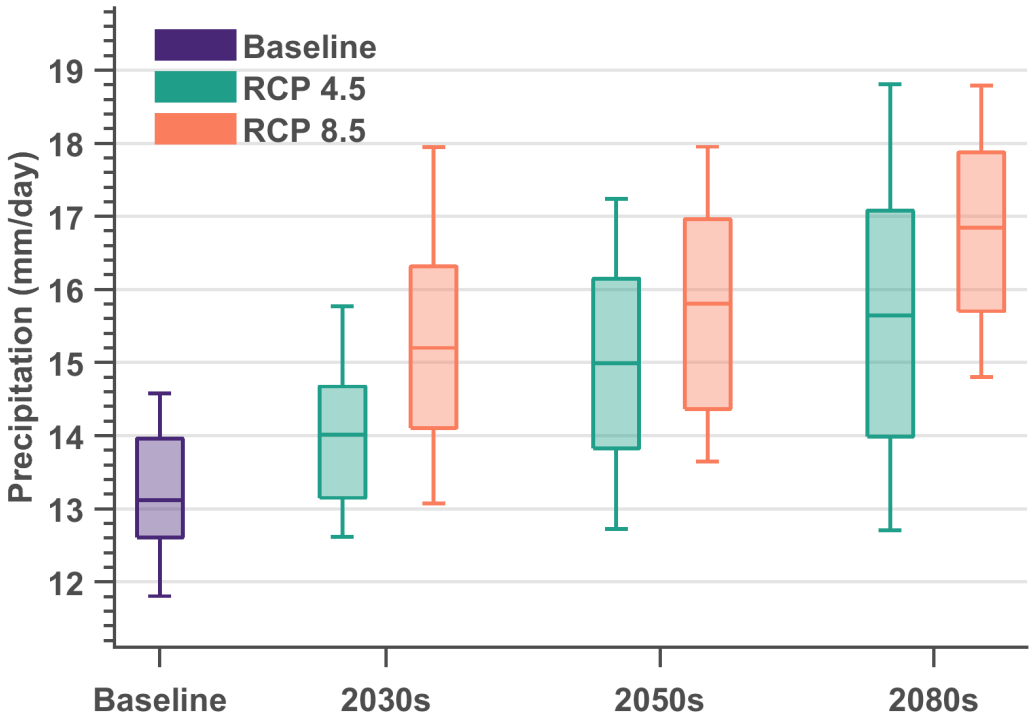


Figure F2.76: Monthly Max. 1-Day Precipitation - February.

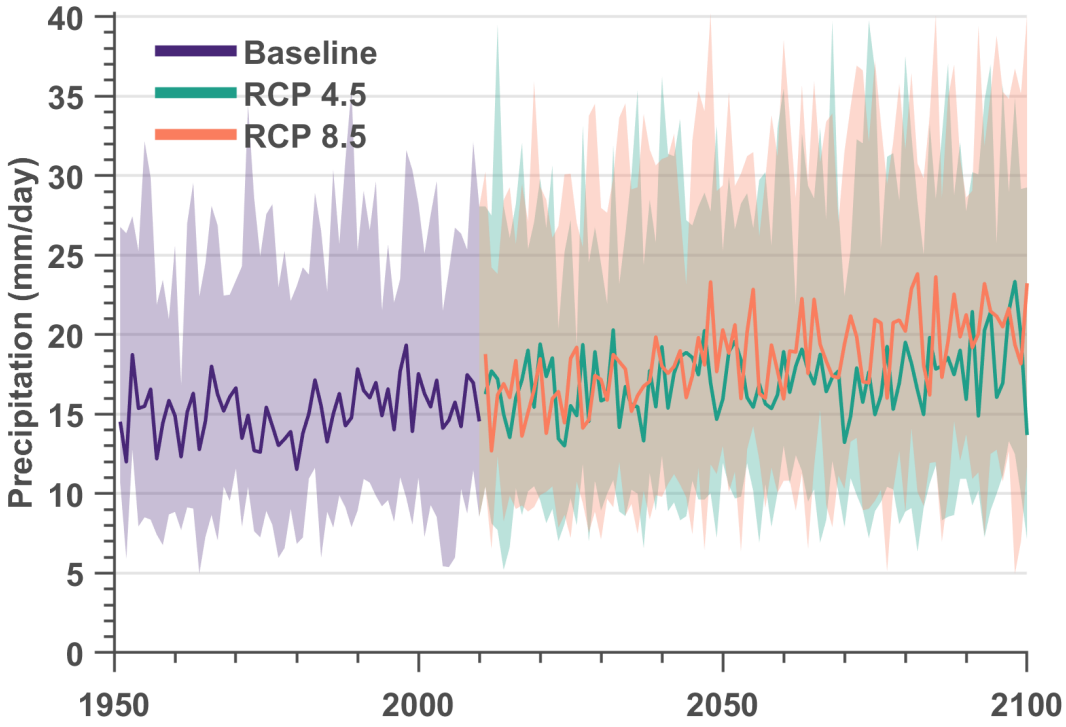


Figure F2.77: Monthly Max. 1-Day Precipitation - March.

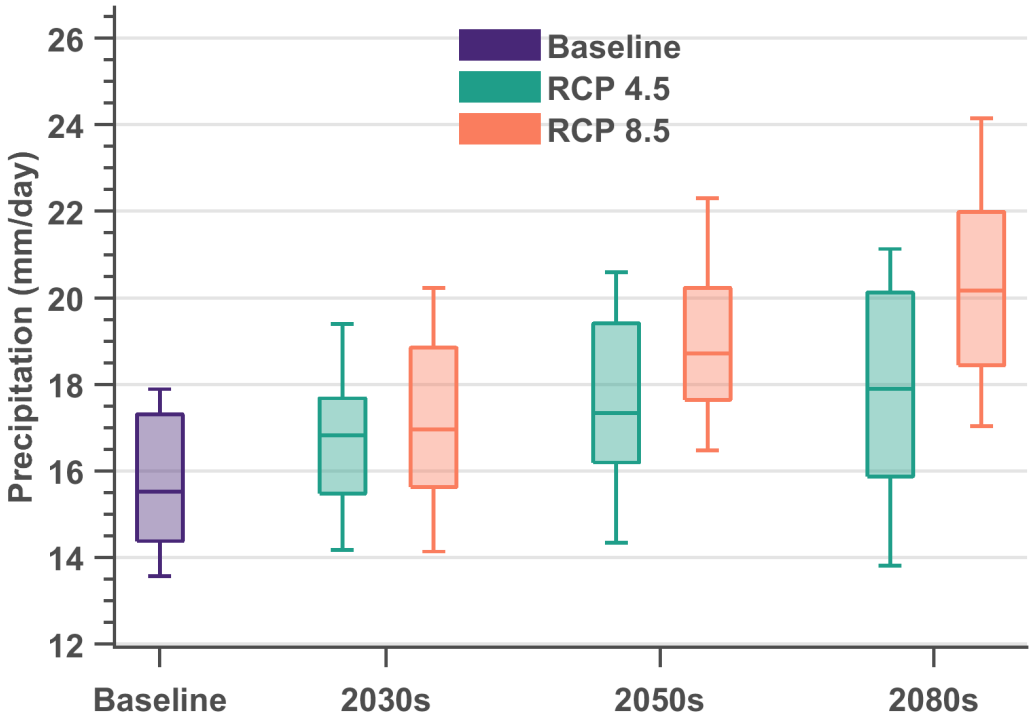


Figure F2.78: Monthly Max. 1-Day Precipitation - March.

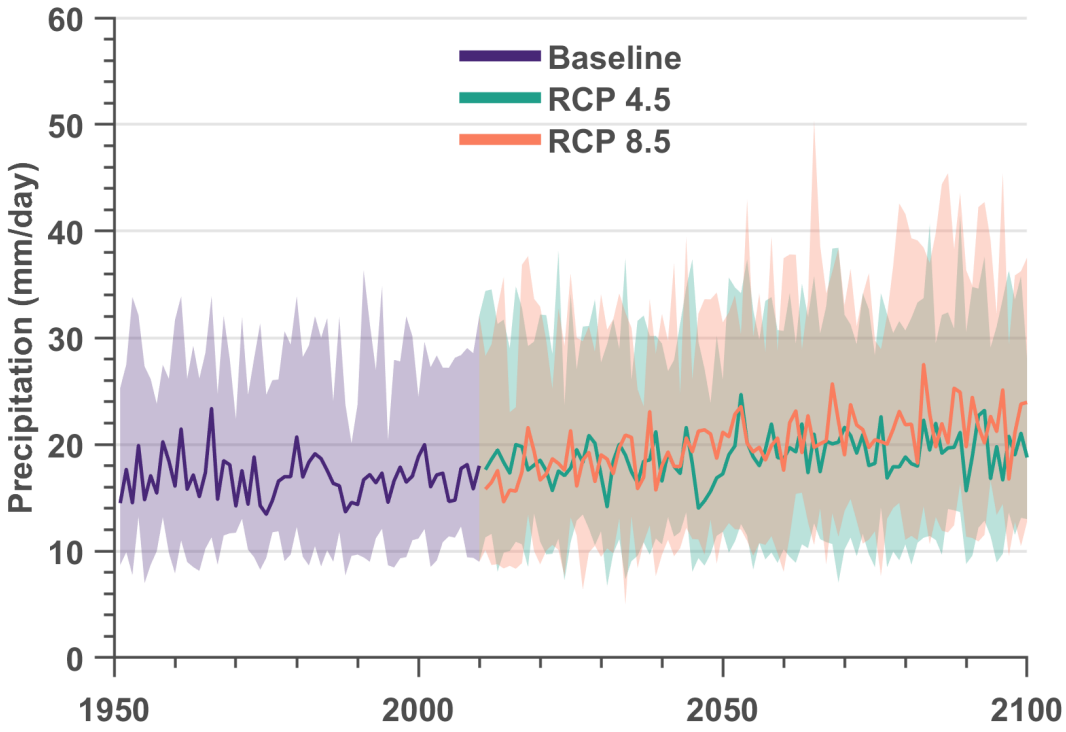


Figure F2.79: Monthly Max. 1-Day Precipitation - April.

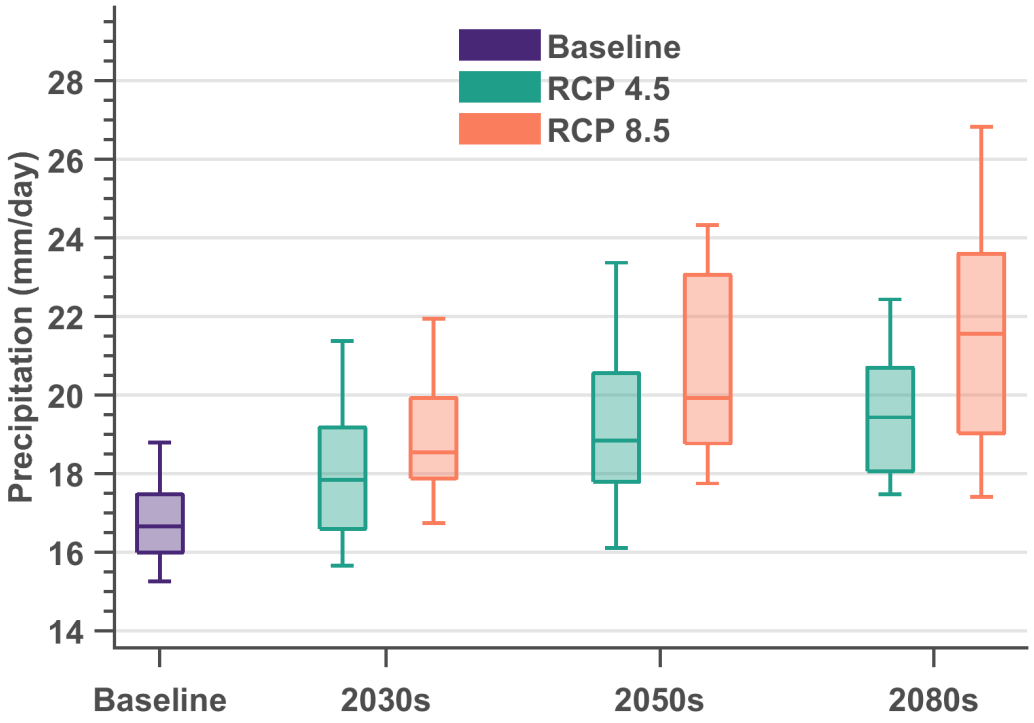


Figure F2.80: Monthly Max. 1-Day Precipitation - April.

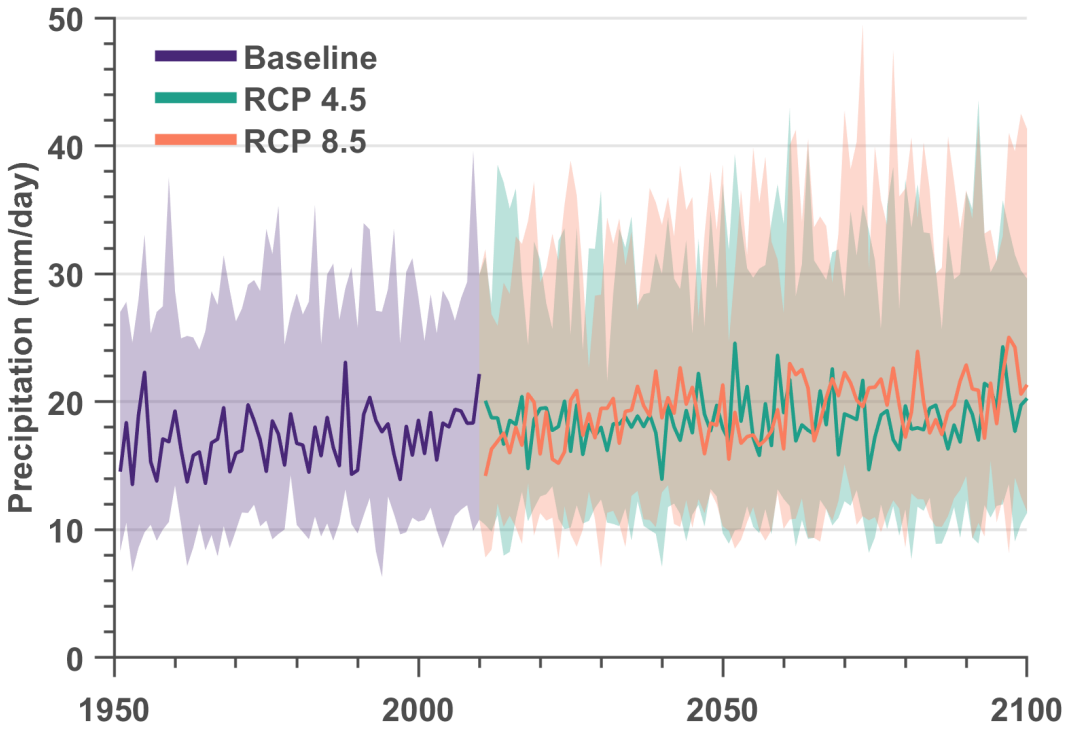


Figure F2.81: Monthly Max. 1-Day Precipitation - May.

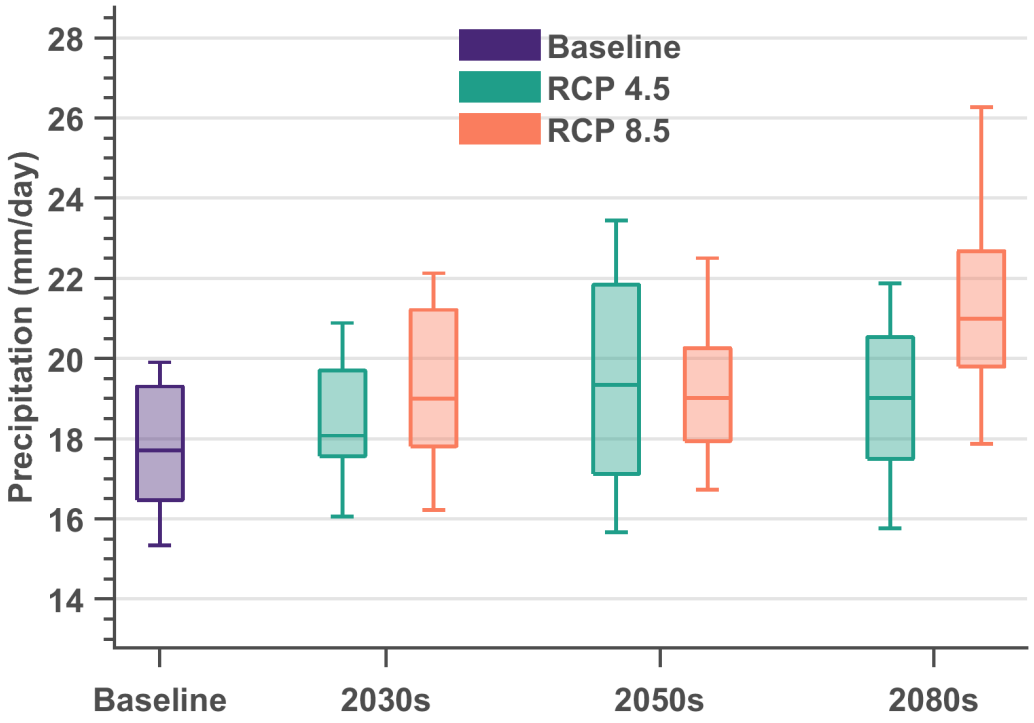


Figure F2.82: Monthly Max. 1-Day Precipitation - May.

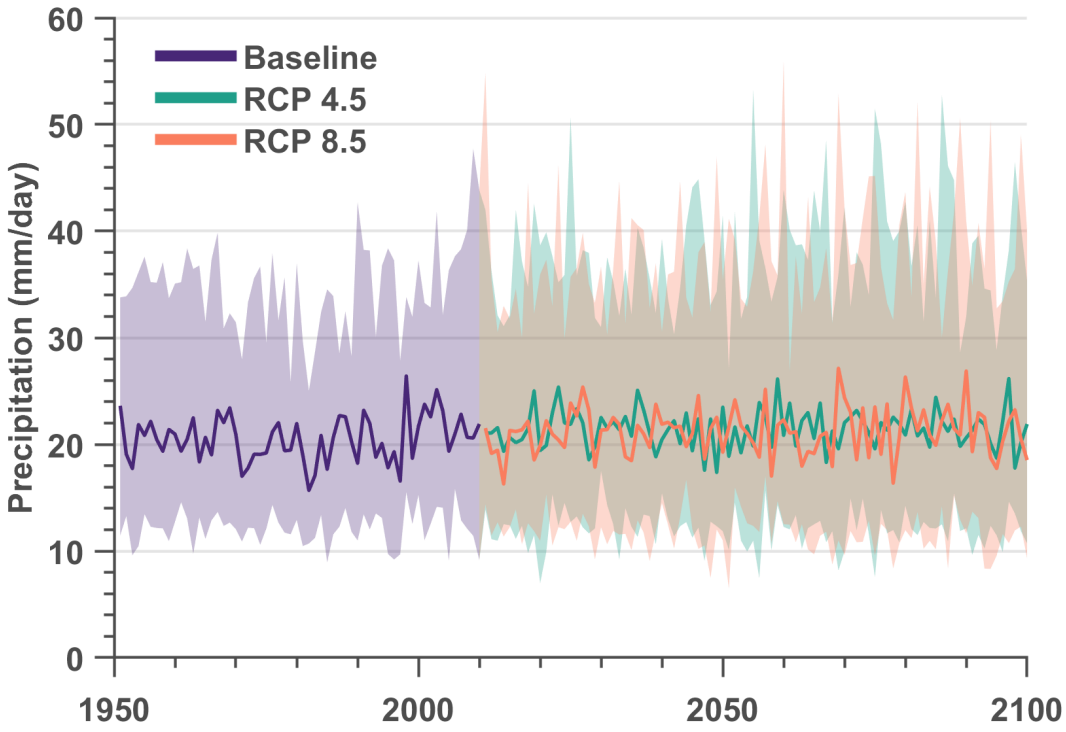


Figure F2.83: Monthly Max. 1-Day Precipitation - June.

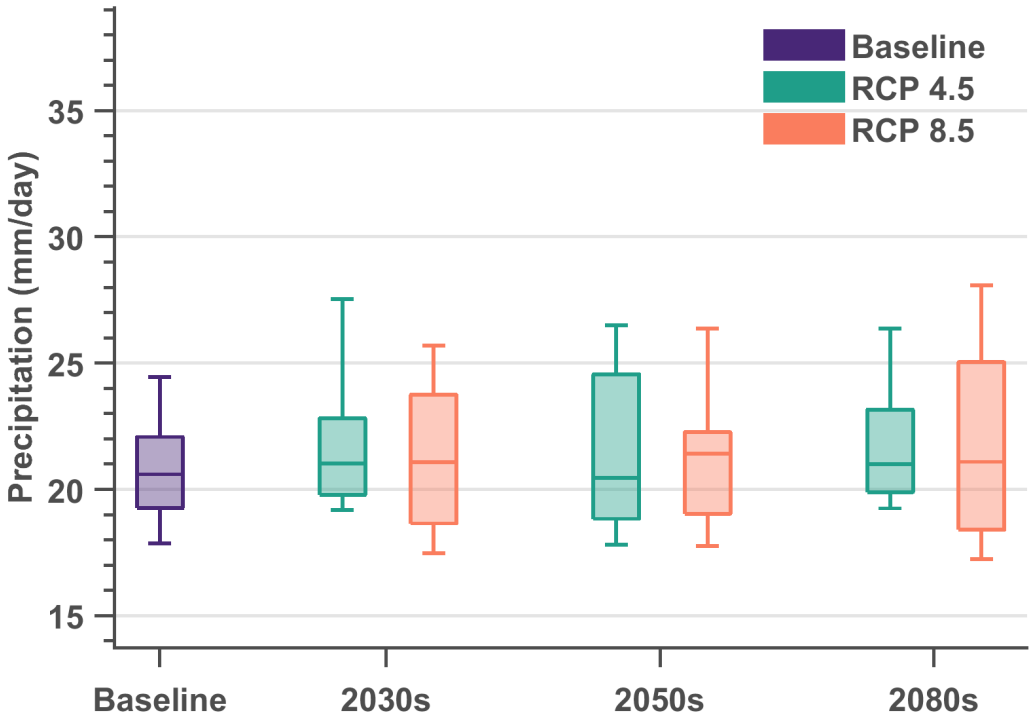


Figure F2.84: Monthly Max. 1-Day Precipitation - June.

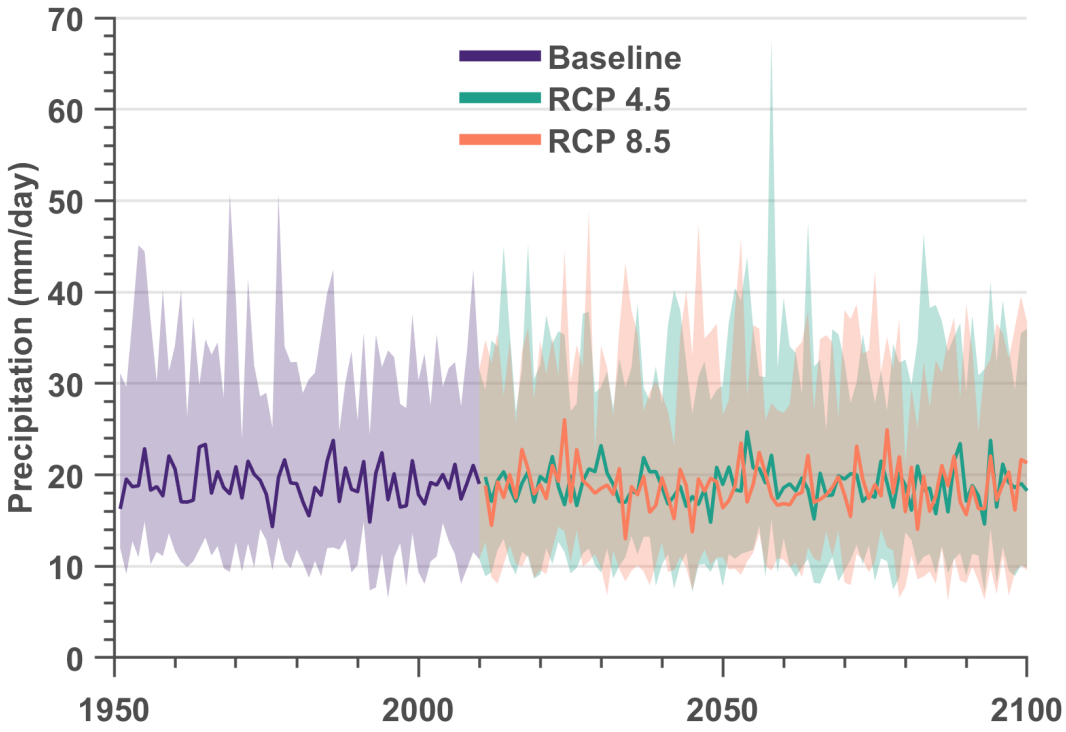


Figure F2.85: Monthly Max. 1-Day Precipitation - July.

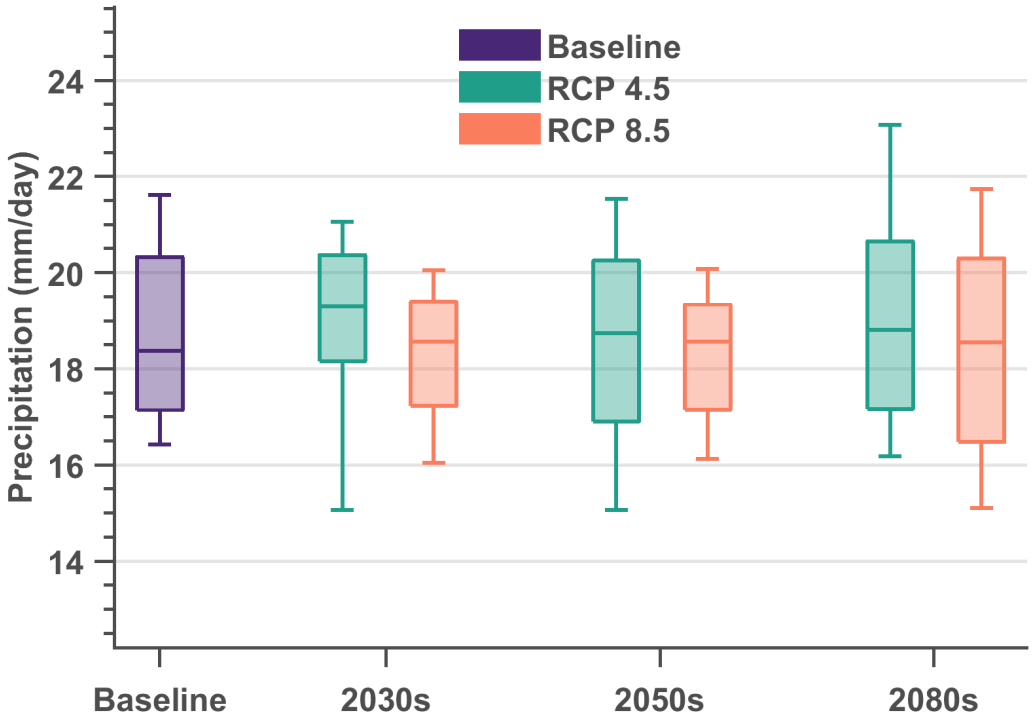


Figure F2.86: Monthly Max. 1-Day Precipitation - July.

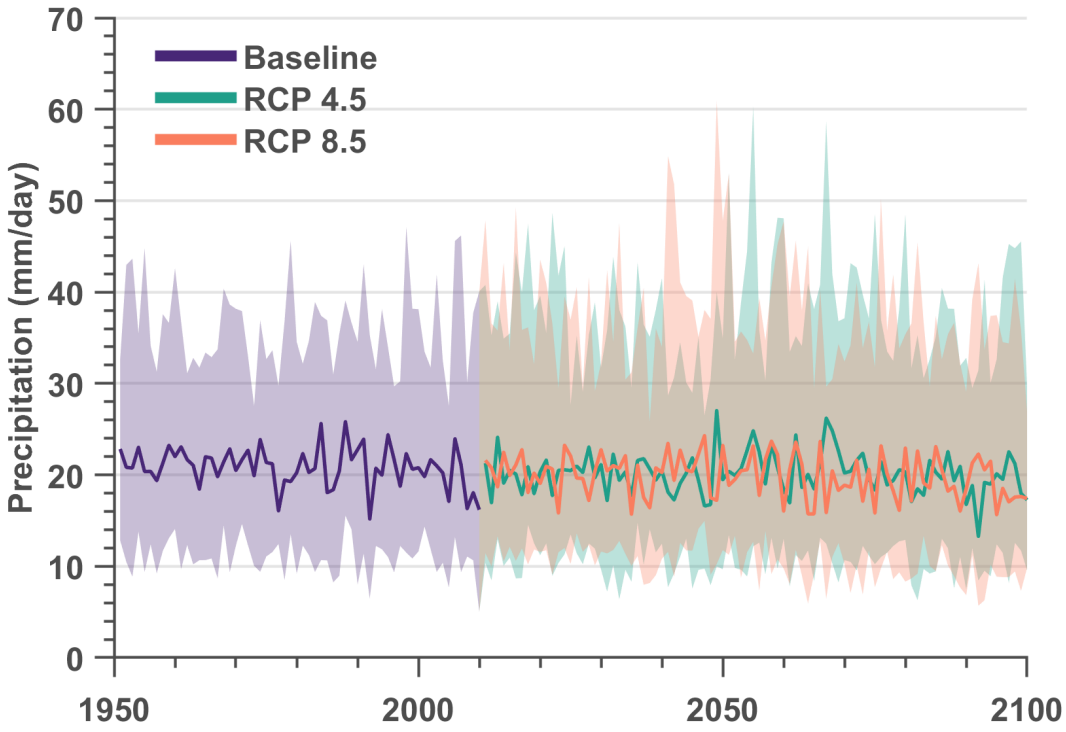


Figure F2.87: Monthly Max. 1-Day Precipitation - August.

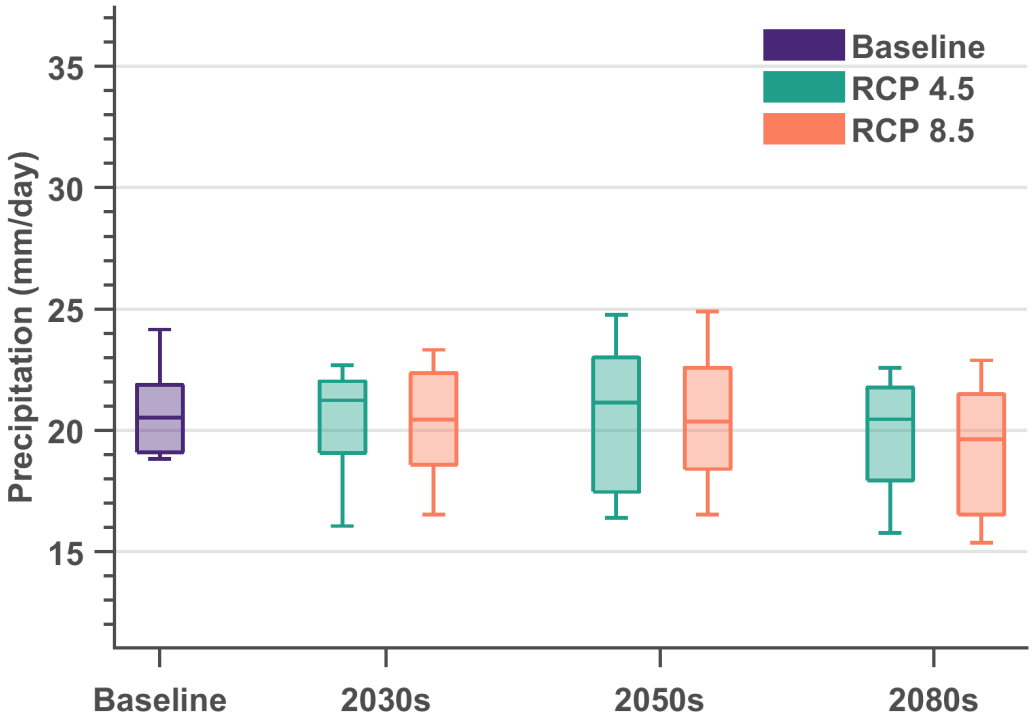


Figure F2.88: Monthly Max. 1-Day Precipitation - August.

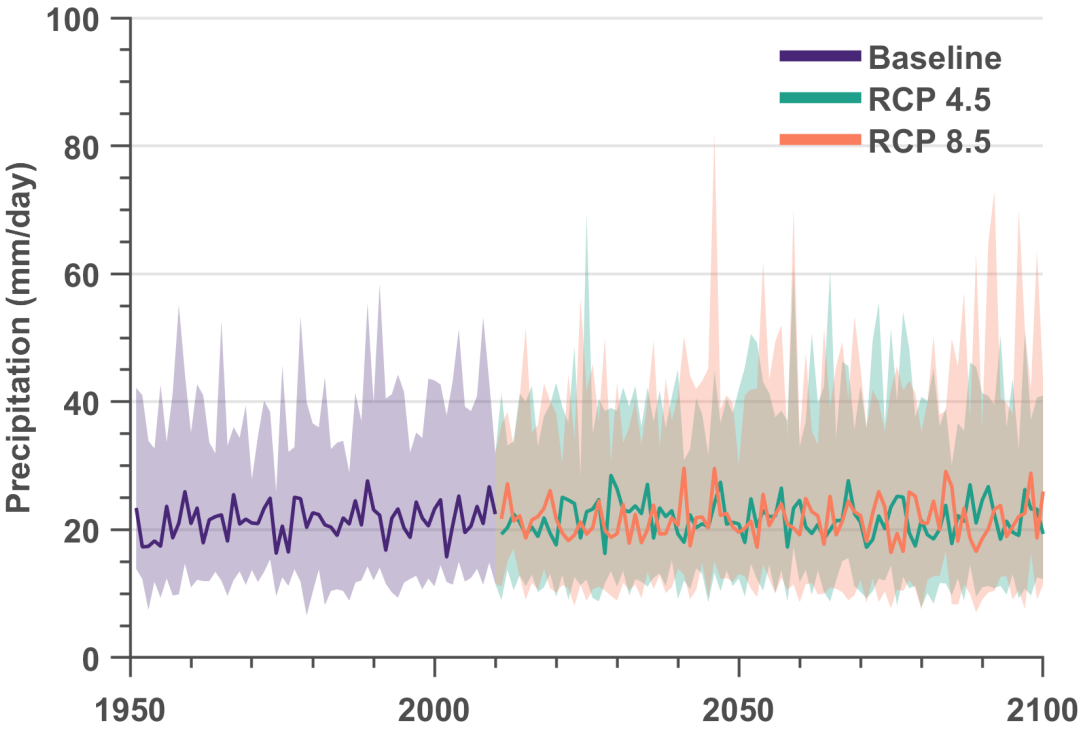


Figure F2.89: Monthly Max. 1-Day Precipitation - September.

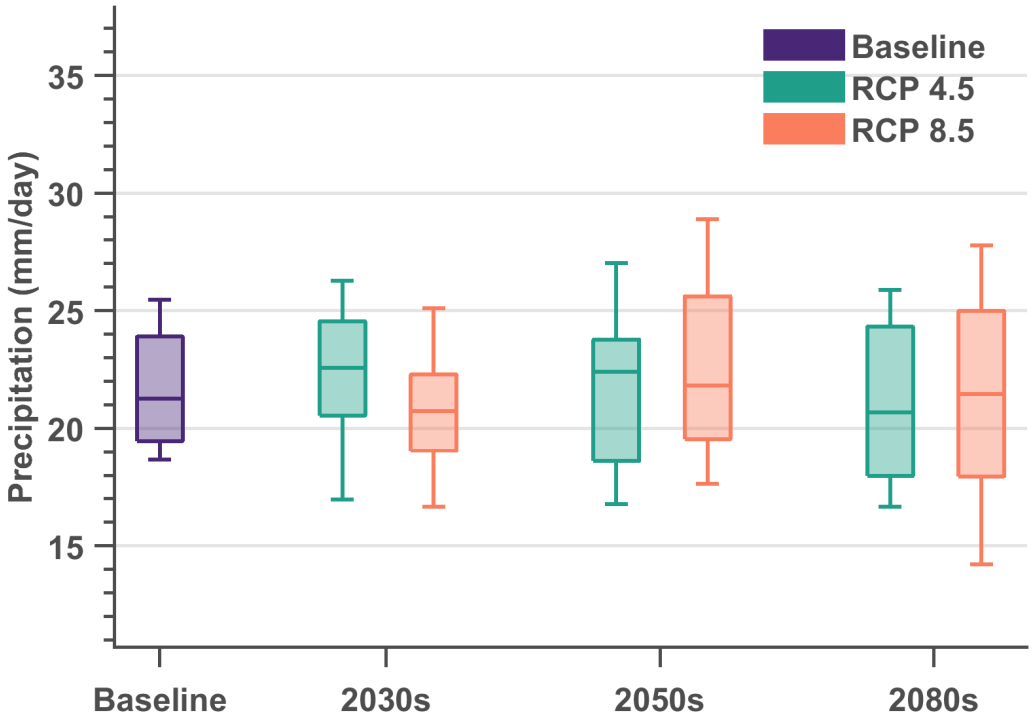


Figure F2.90: Monthly Max. 1-Day Precipitation - September.

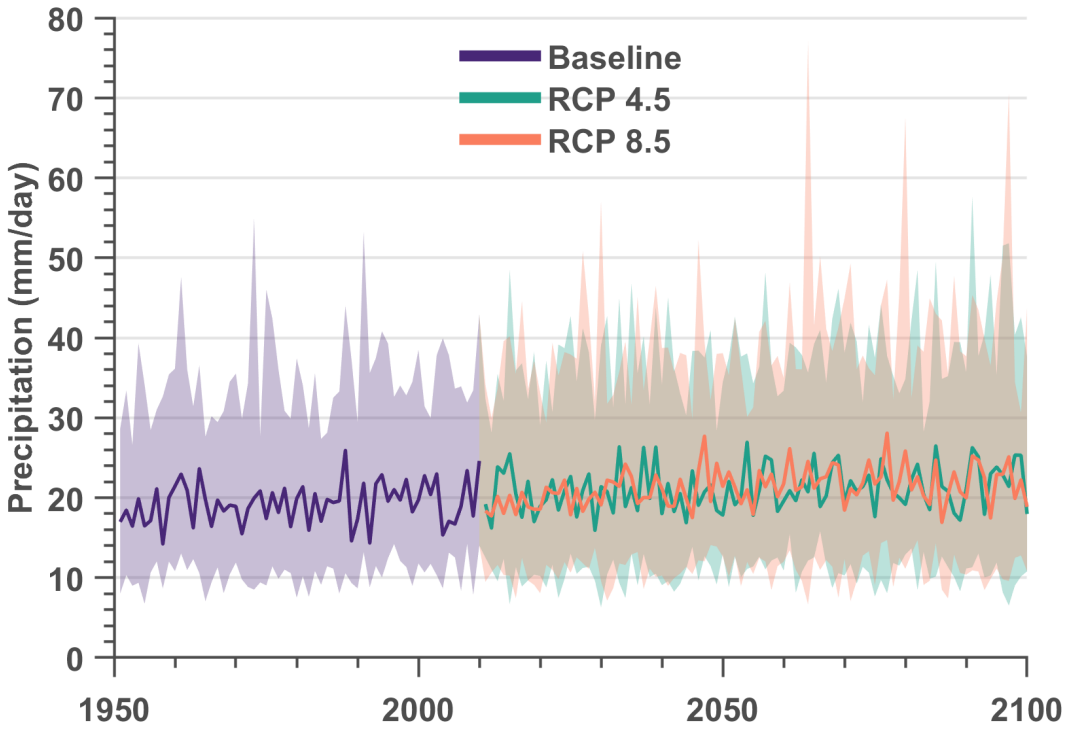


Figure F2.91: Monthly Max. 1-Day Precipitation - October.

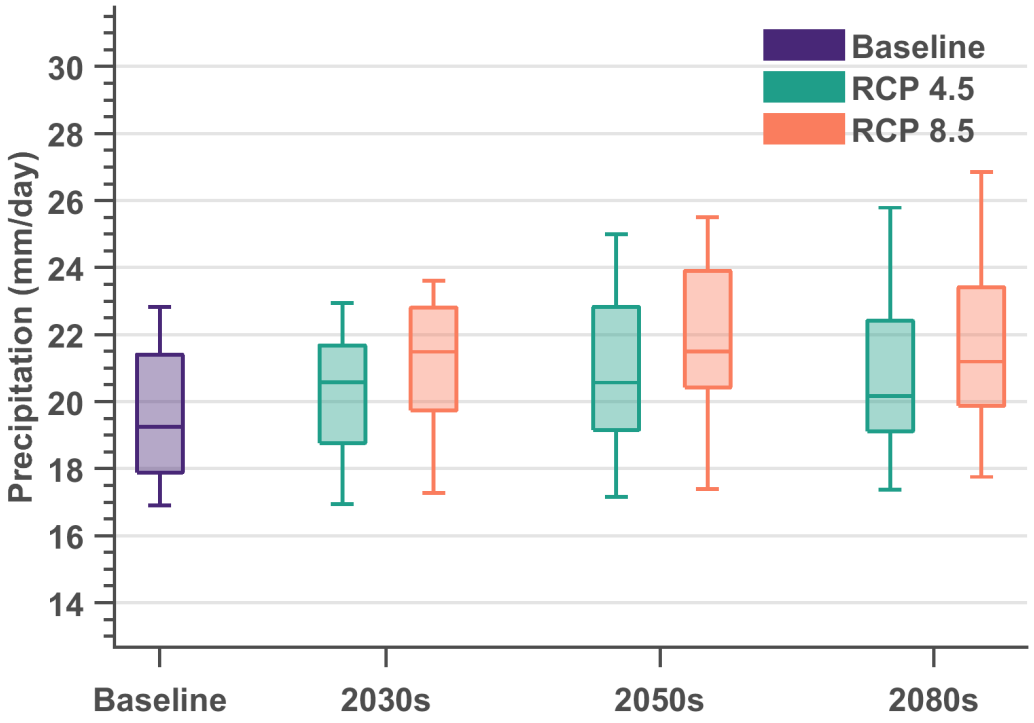


Figure F2.92: Monthly Max. 1-Day Precipitation - October.

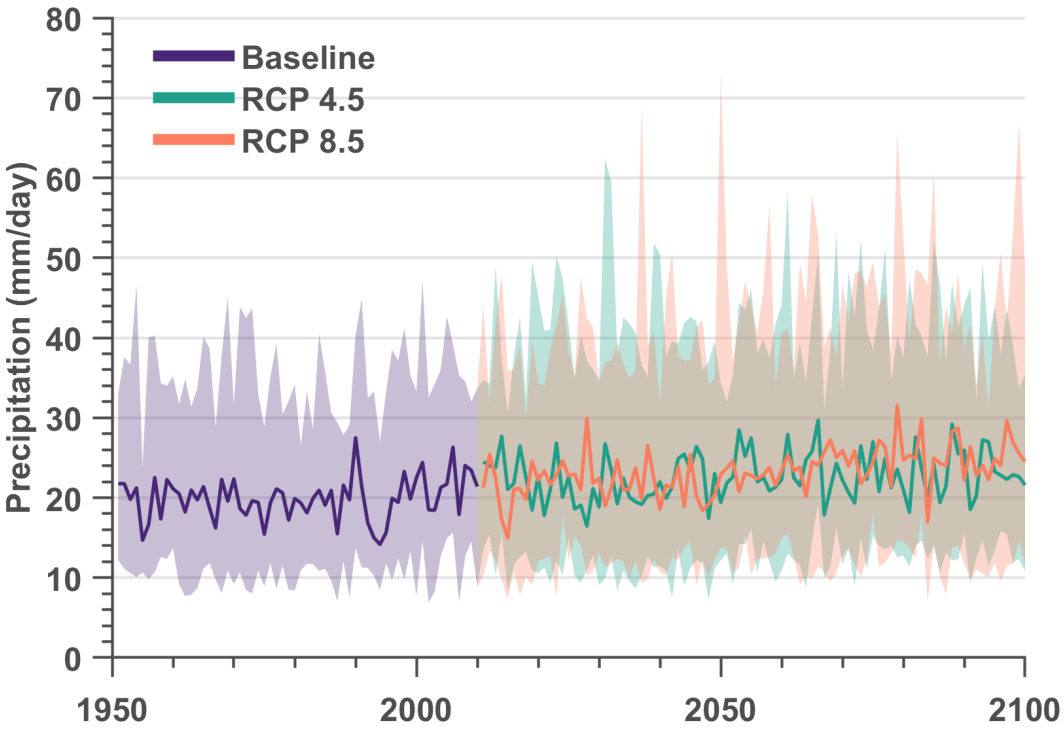


Figure F2.93: Monthly Max. 1-Day Precipitation - November.

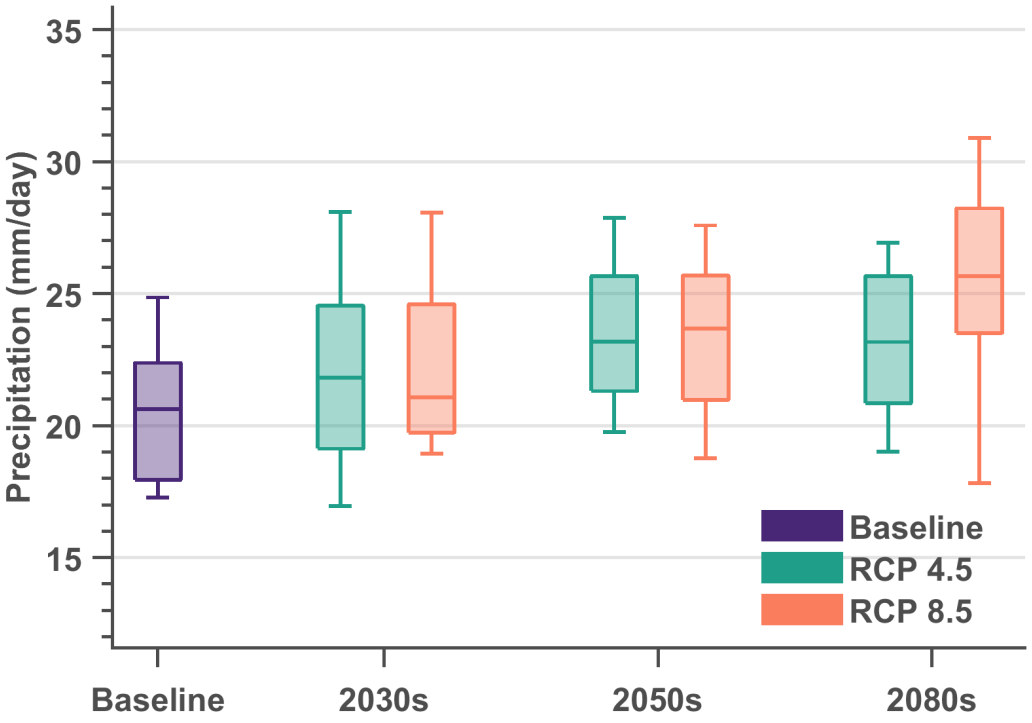


Figure F2.94: Monthly Max. 1-Day Precipitation - November.

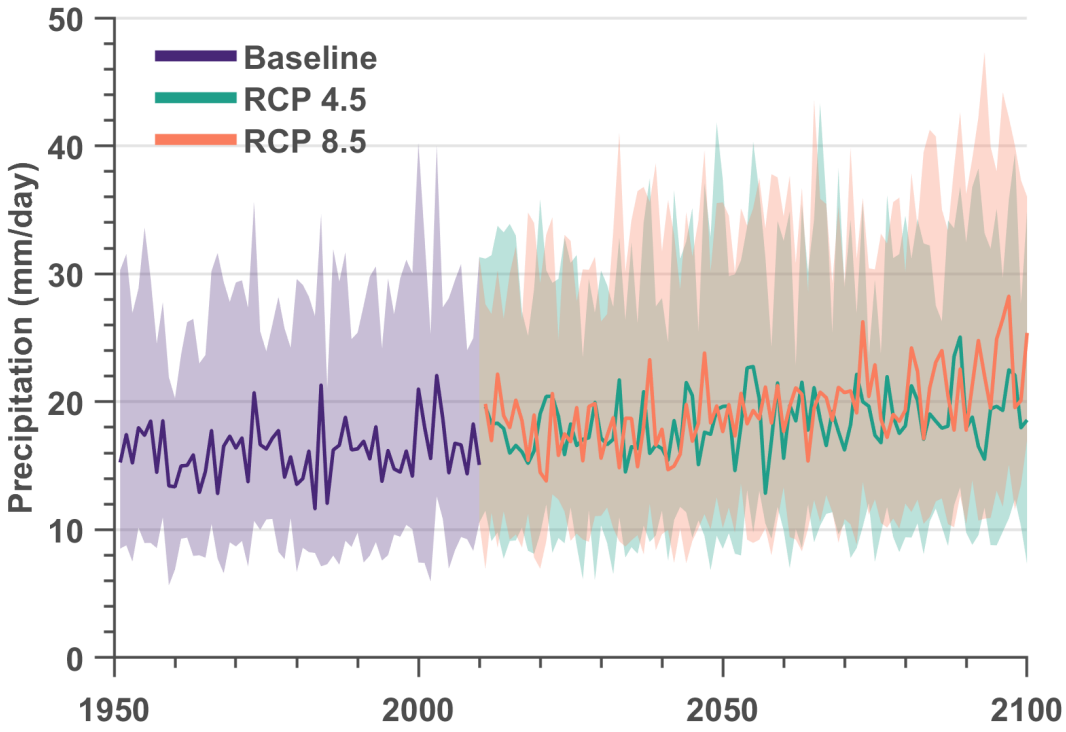


Figure F2.95: Monthly Max. 1-Day Precipitation - December.

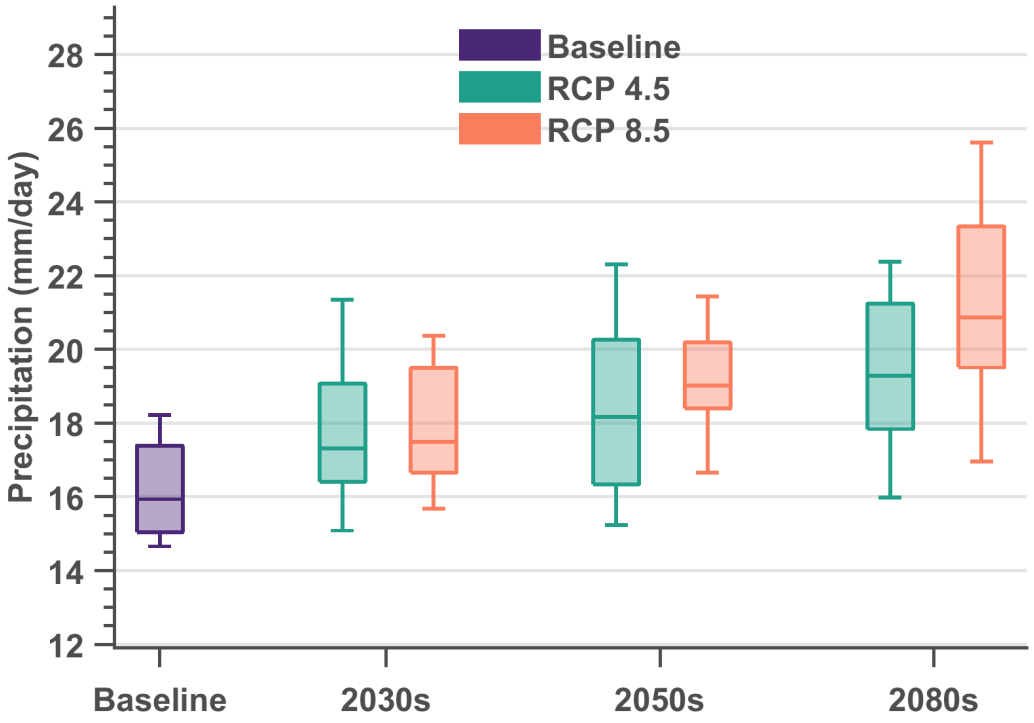


Figure F2.96: Monthly Max. 1-Day Precipitation - December.

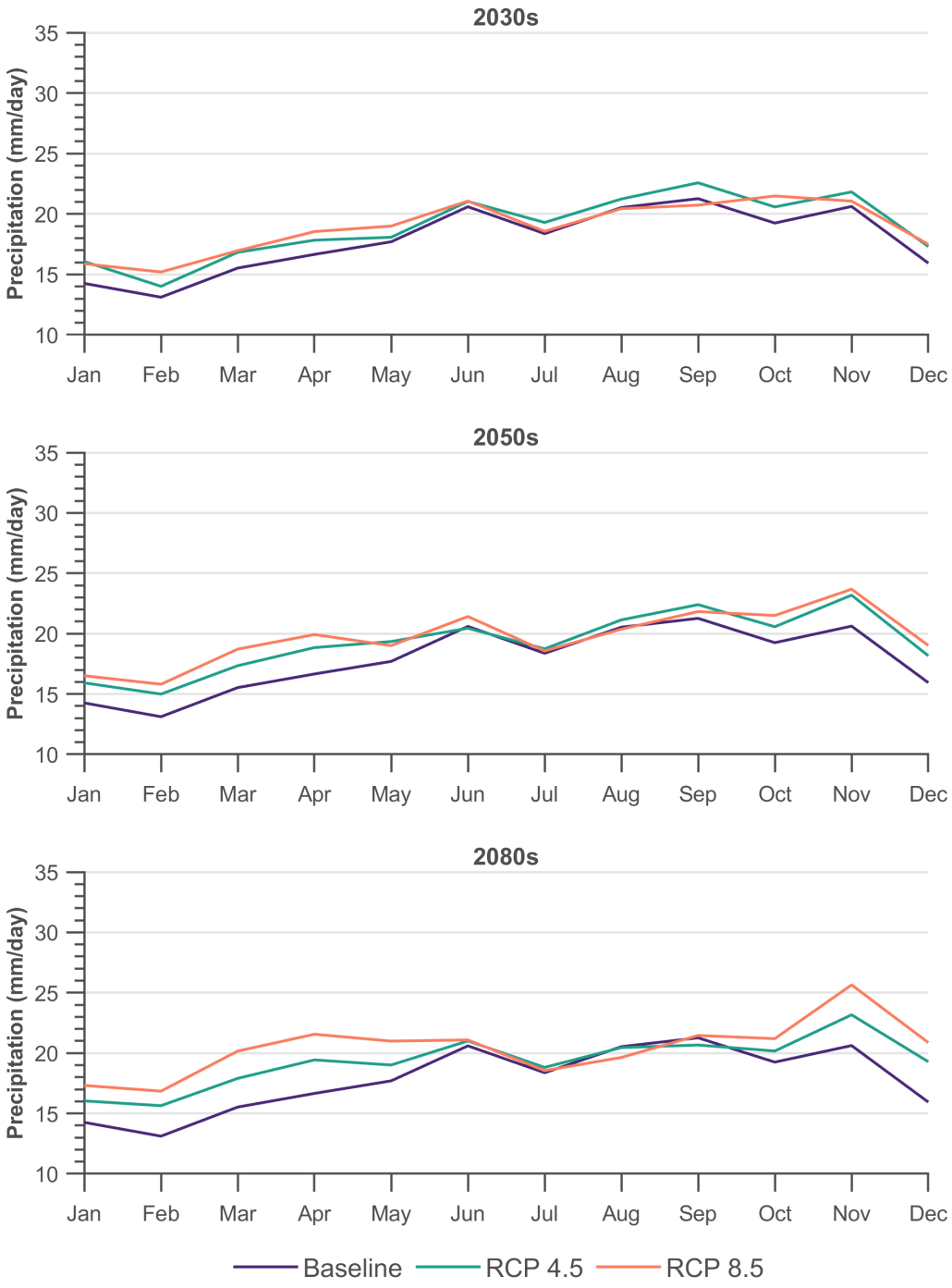


Figure F2.97: Monthly Max. 1-Day Precipitation.

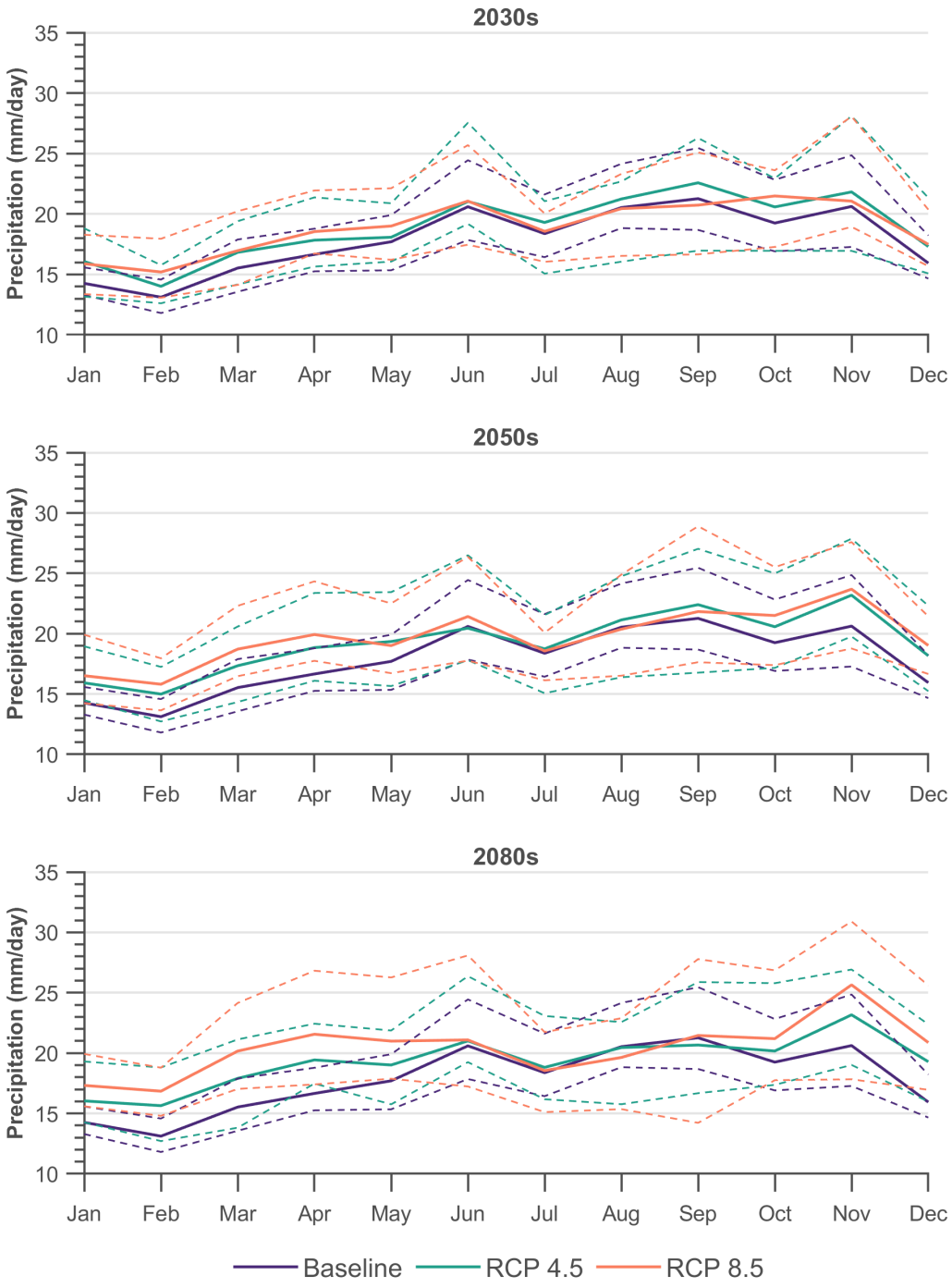


Figure F2.98: Monthly Max. 1-Day Precipitation. Dashed lines indicate the 10% and 90% percentile.

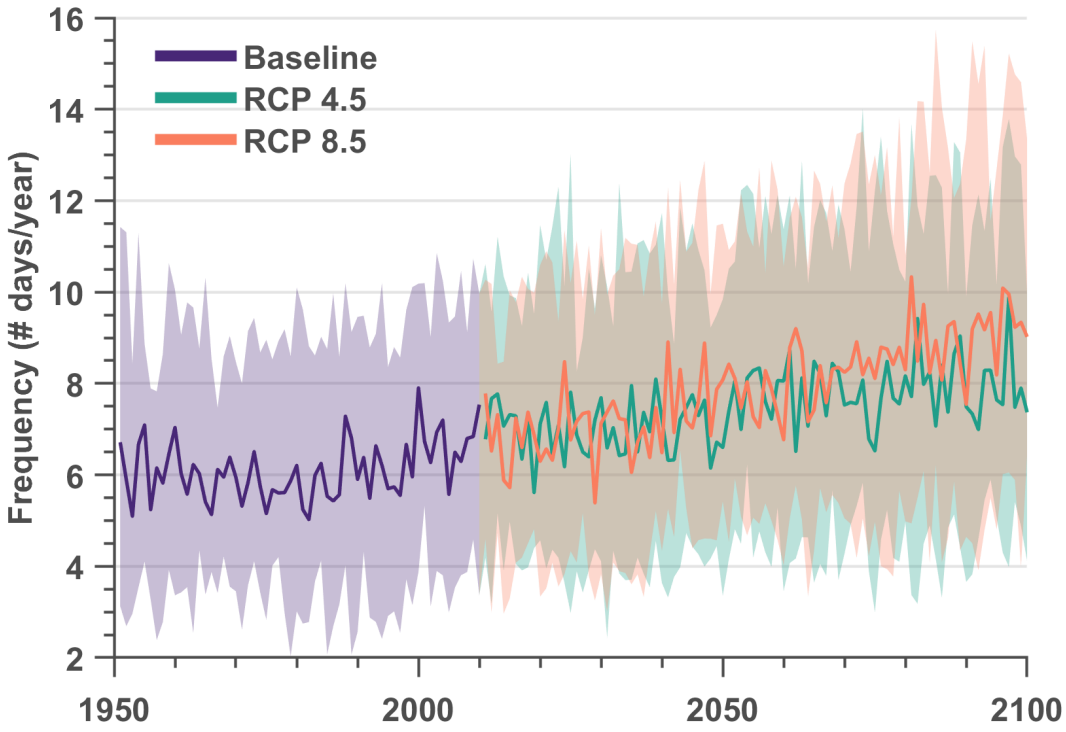


Figure F2.99: Number of Days Precipitation > 20 mm.

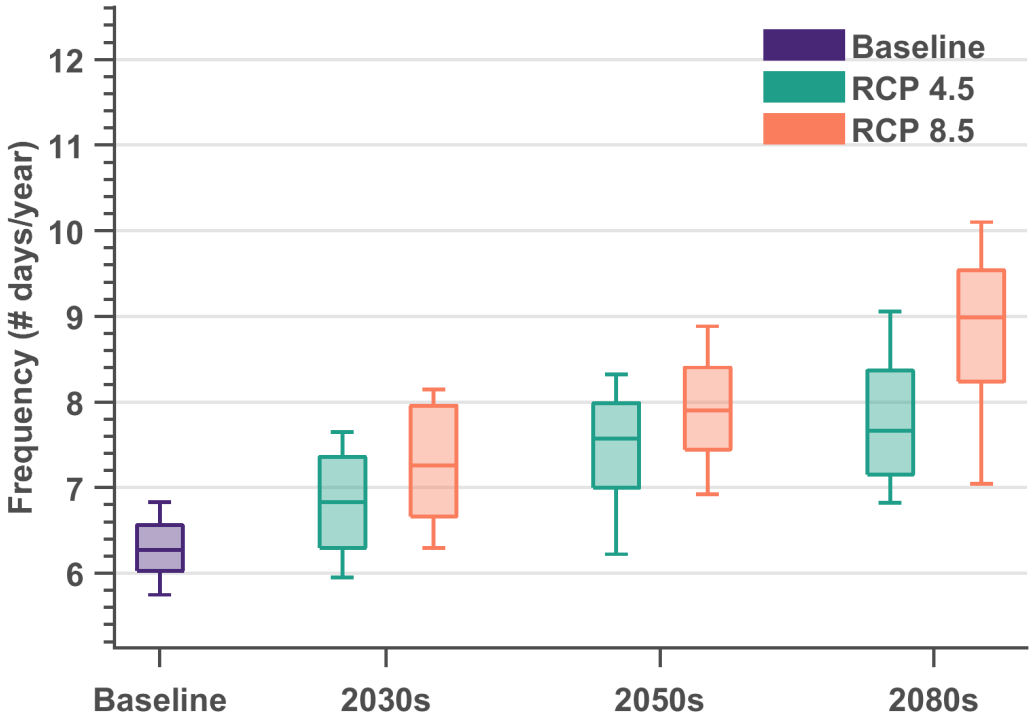


Figure F2.100: Number of Days Precipitation > 20 mm.

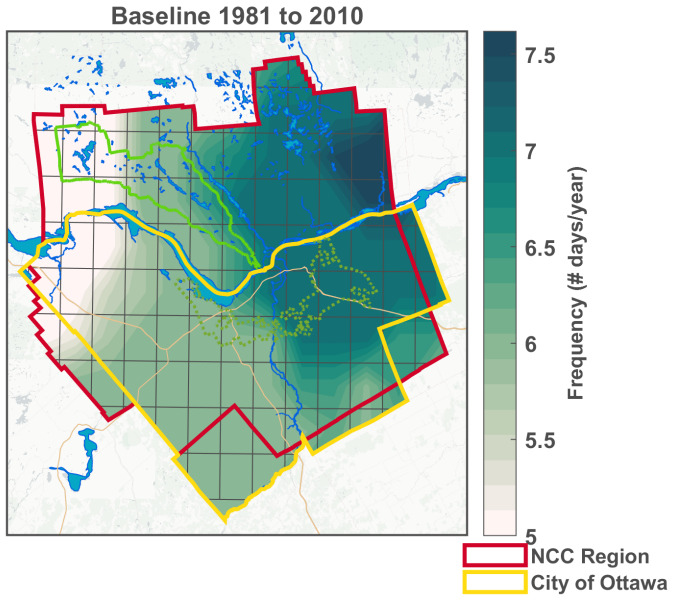


Figure F2.101: Number of Days Precipitation > 20 mm - Baseline.

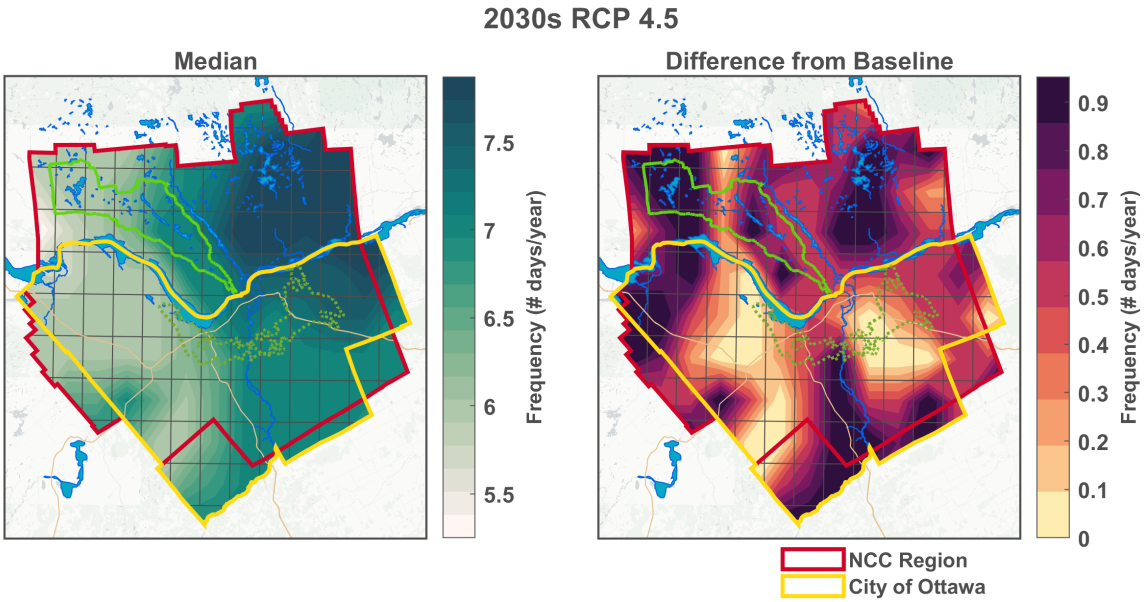


Figure F2.102: Number of Days Precipitation > 20 mm - 2030s RCP 4.5.

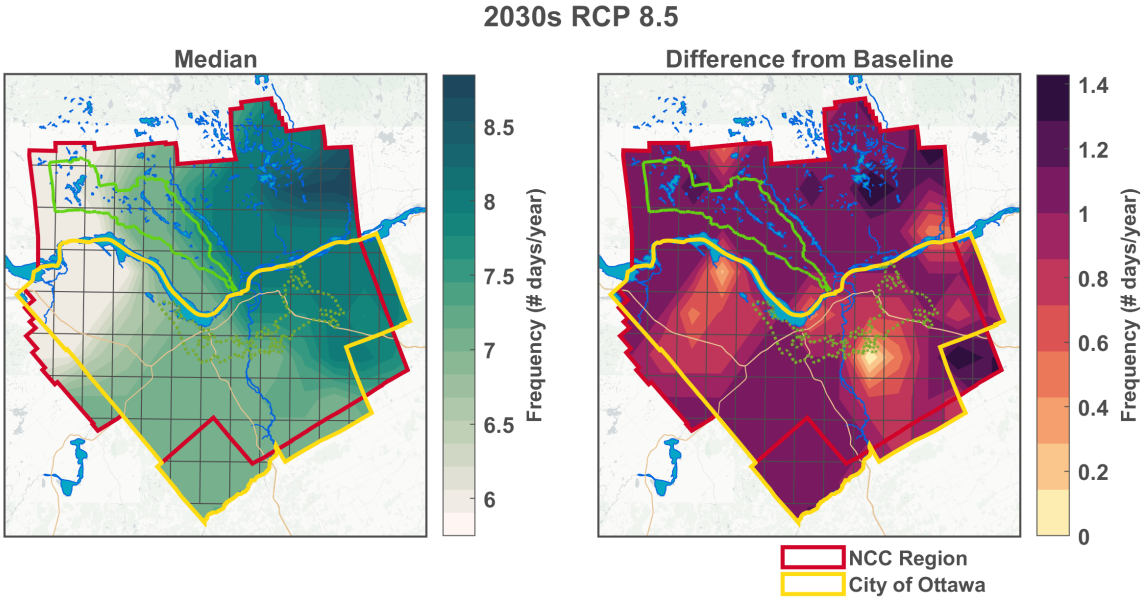


Figure F2.103: Number of Days Precipitation > 20 mm - 2030s RCP 8.5.

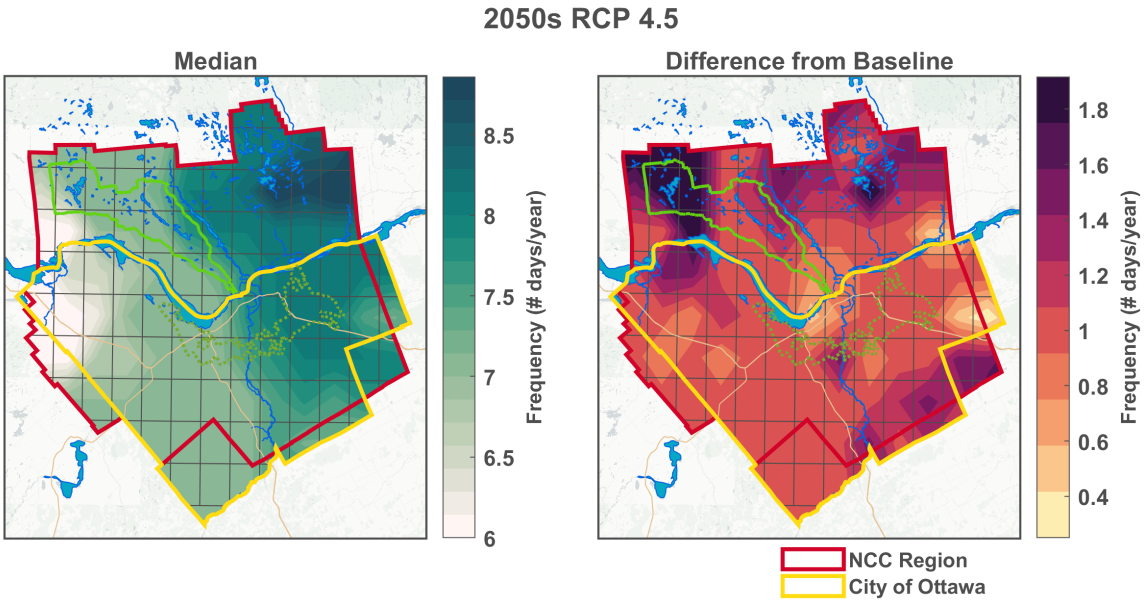


Figure F2.104: Number of Days Precipitation > 20 mm - 2050s RCP 4.5.

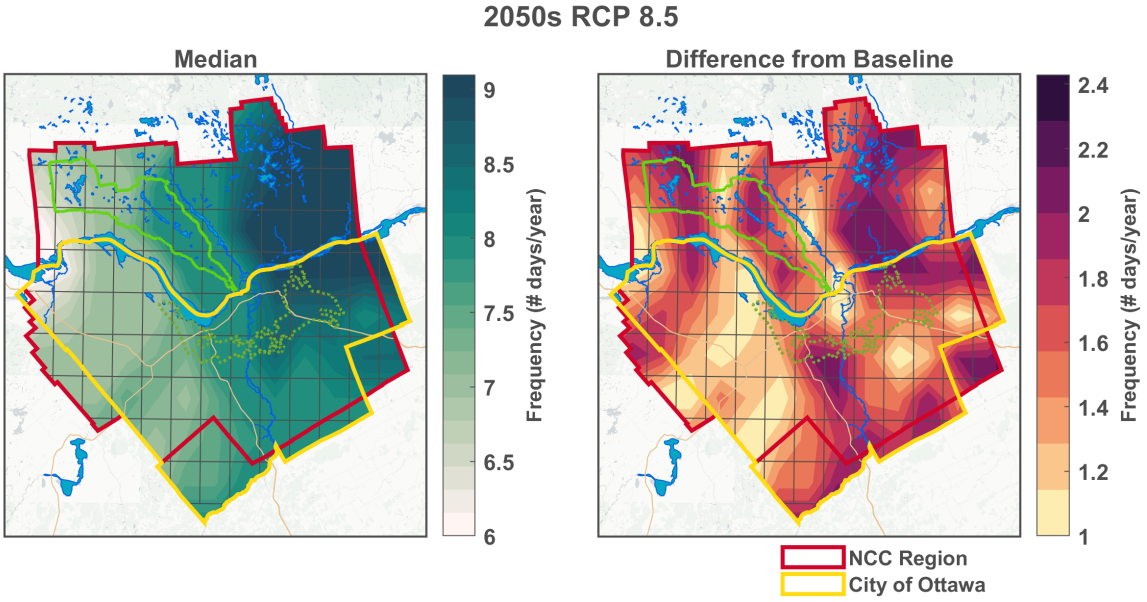


Figure F2.105: Number of Days Precipitation > 20 mm - 2050s RCP 8.5.

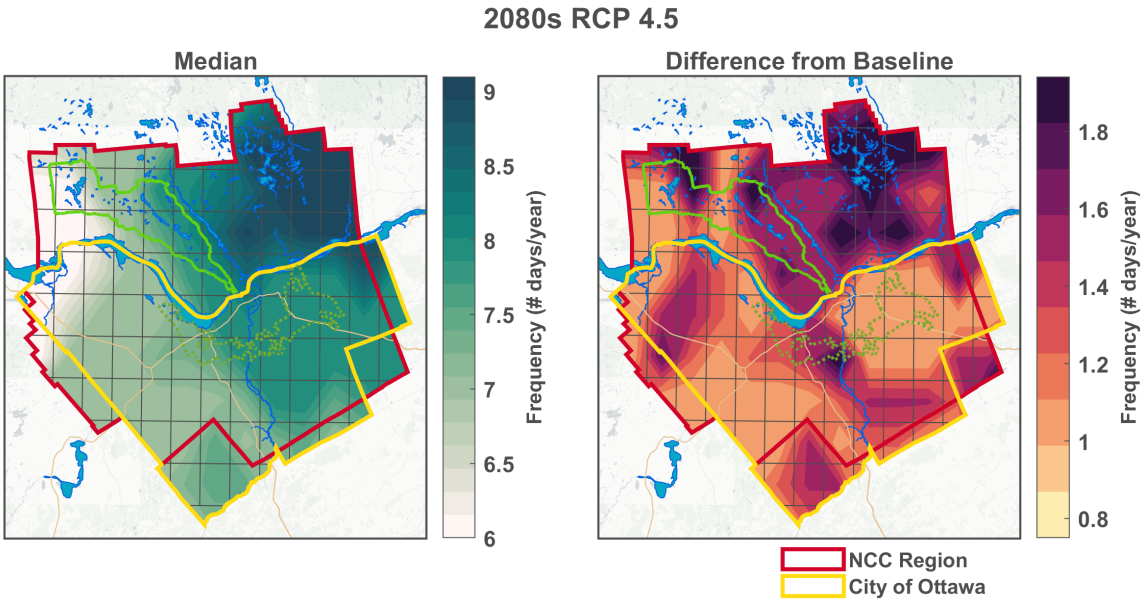


Figure F2.106: Number of Days Precipitation > 20 mm - 2080s RCP 4.5.

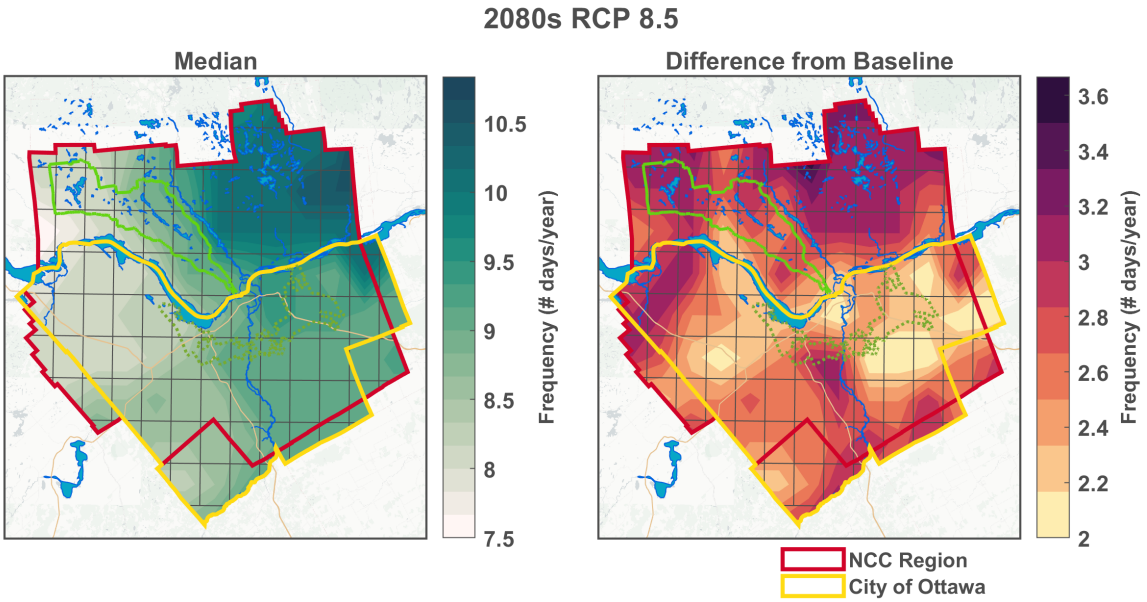


Figure F2.107: Number of Days Precipitation > 20 mm - 2080s RCP 8.5.

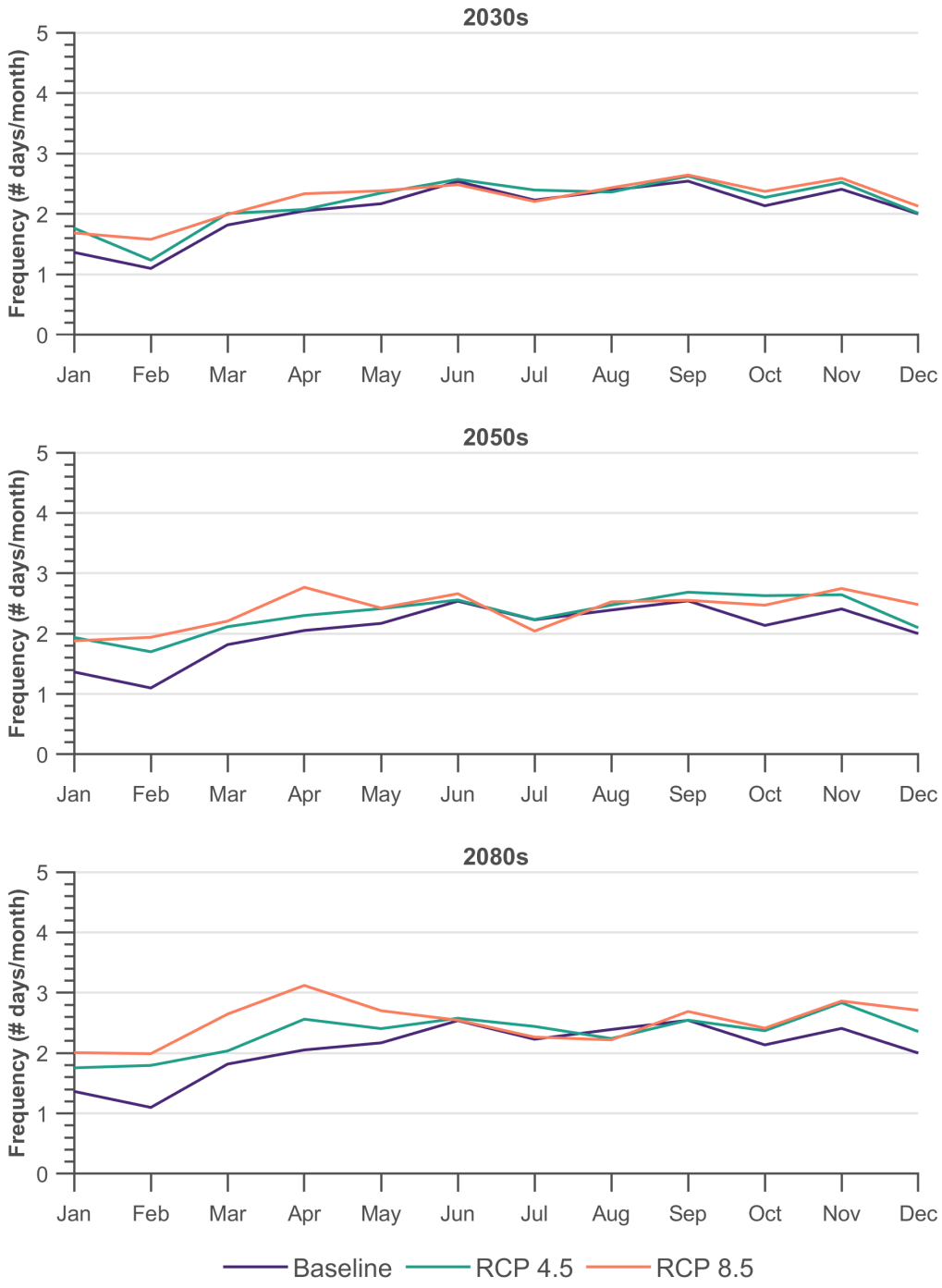


Figure F2.108: Monthly Number of Days Precipitation > 10mm.

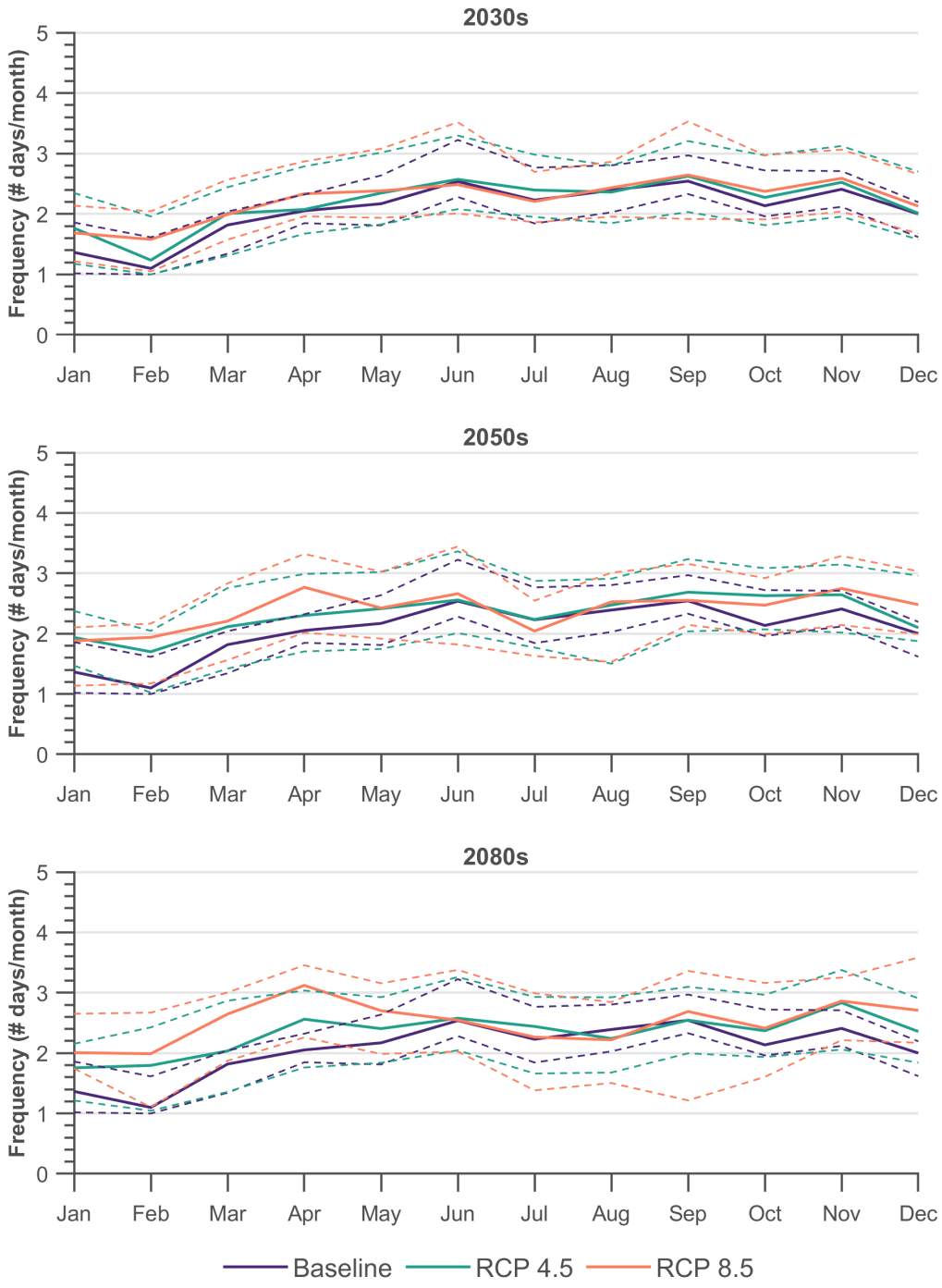


Figure F2.109: Monthly Number of Days Precipitation > 10mm. Dashed lines indicate the 10% and 90% percentile.

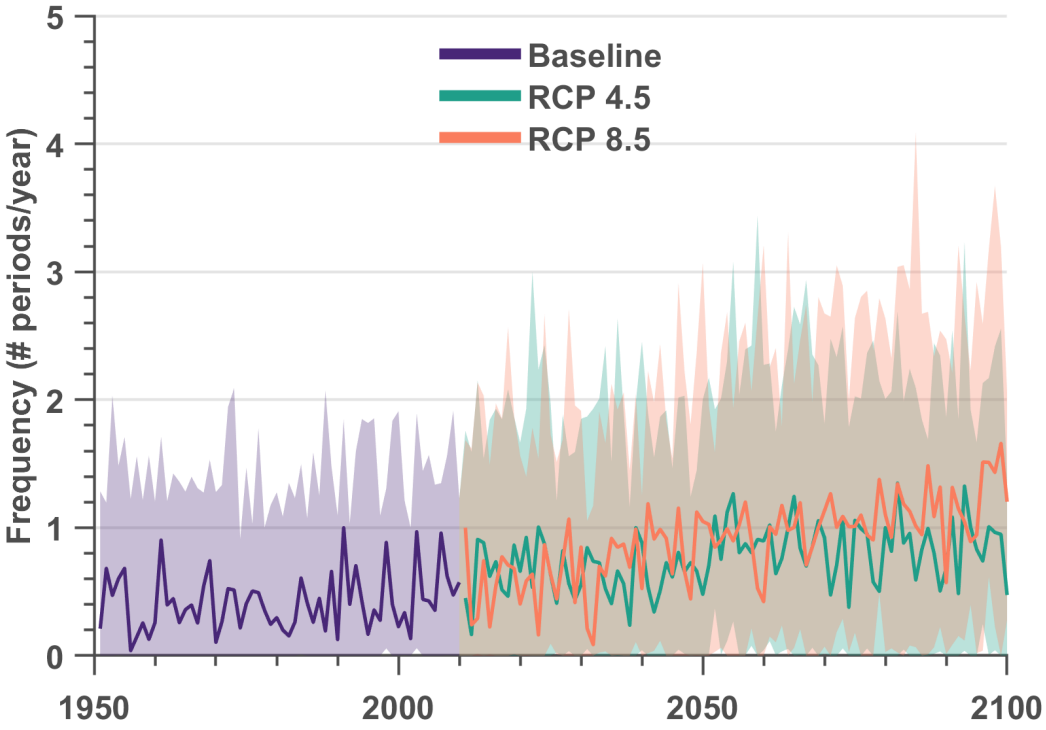


Figure F2.110: Number of 2-Day Precipitation > 50 mm.

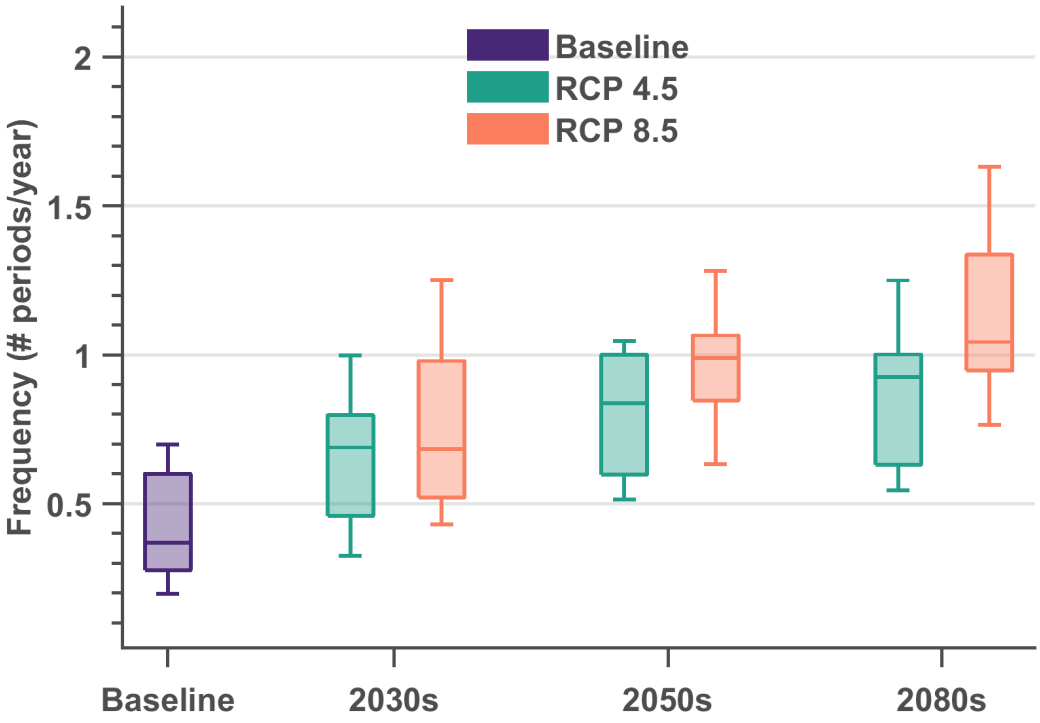


Figure F2.111: Number of 2-Day Precipitation > 50 mm.

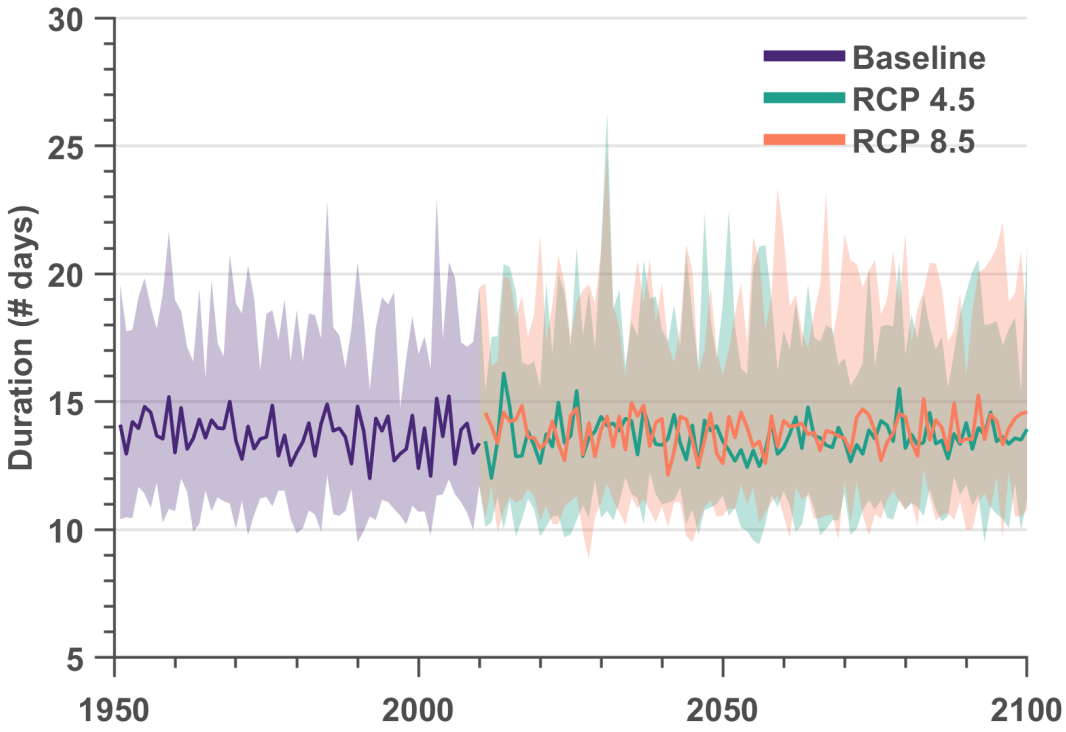


Figure F2.112: Max. Length of Dry Spell.

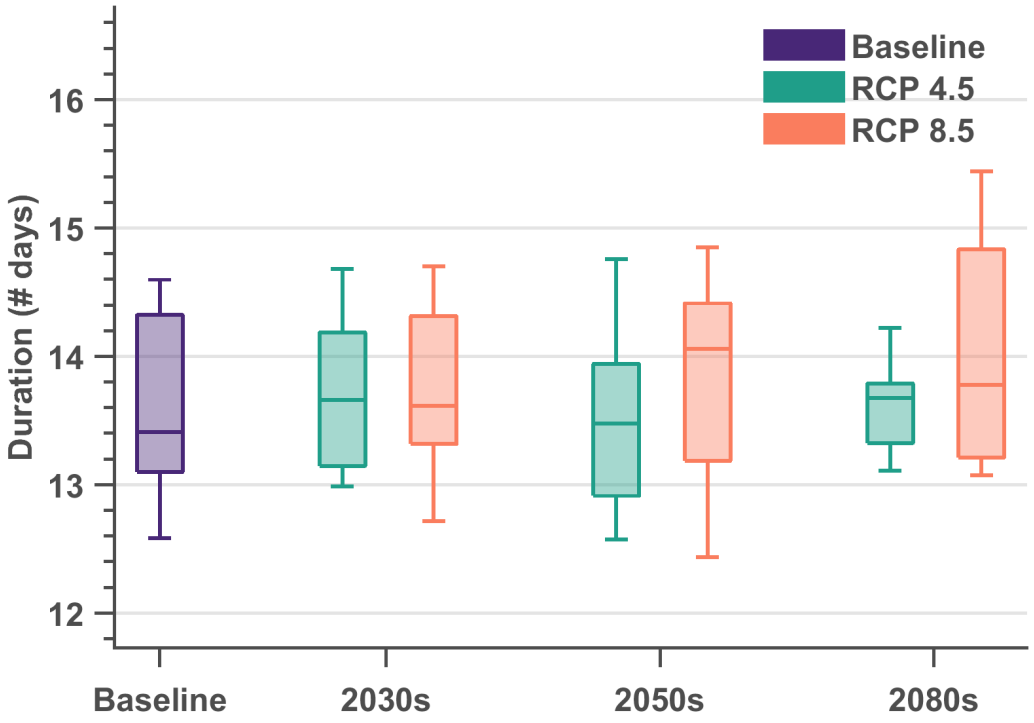


Figure F2.113: Max. Length of Dry Spell.

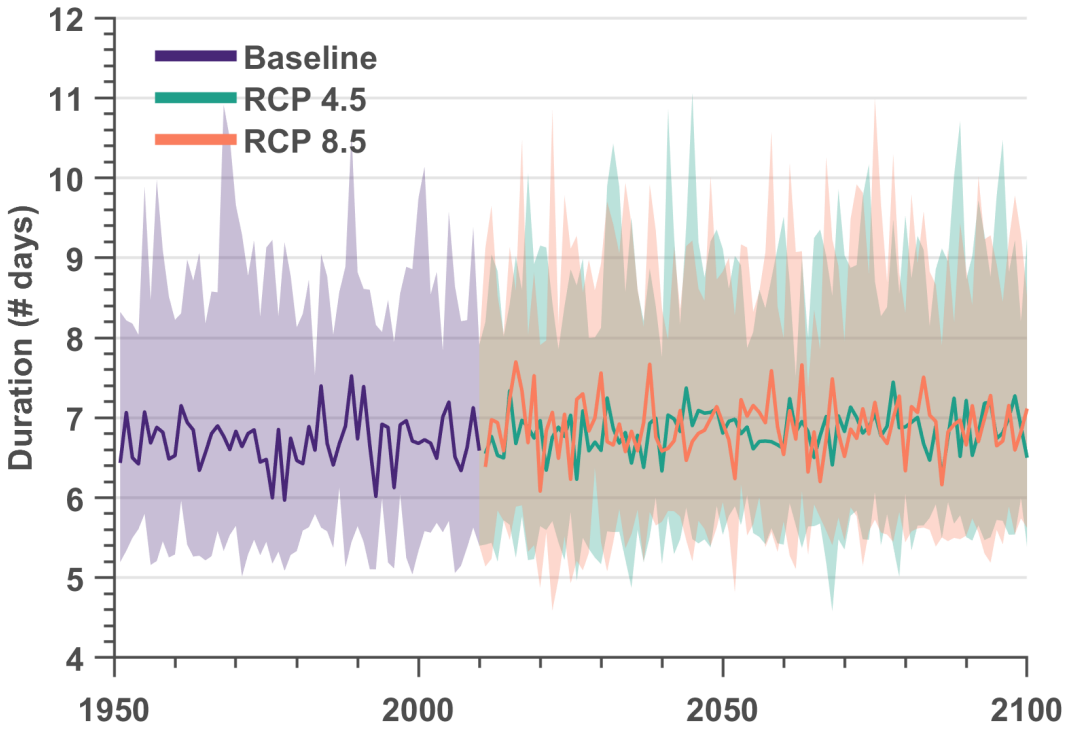


Figure F2.114: Max. Length of Wet Spell.

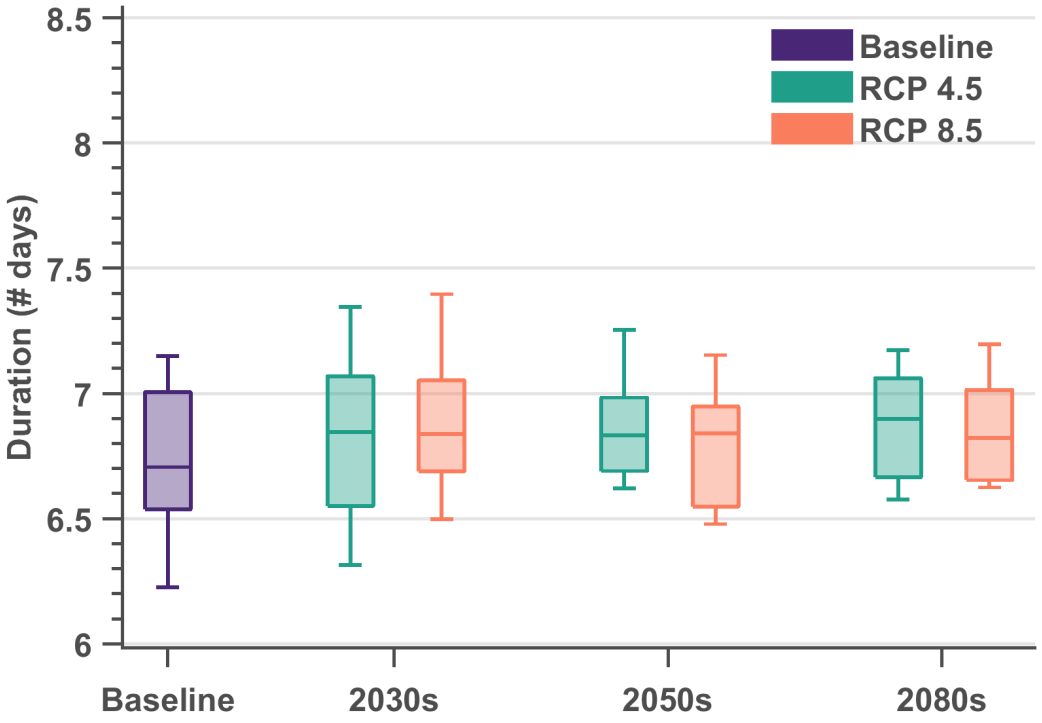


Figure F2.115: Max. Length of Wet Spell.

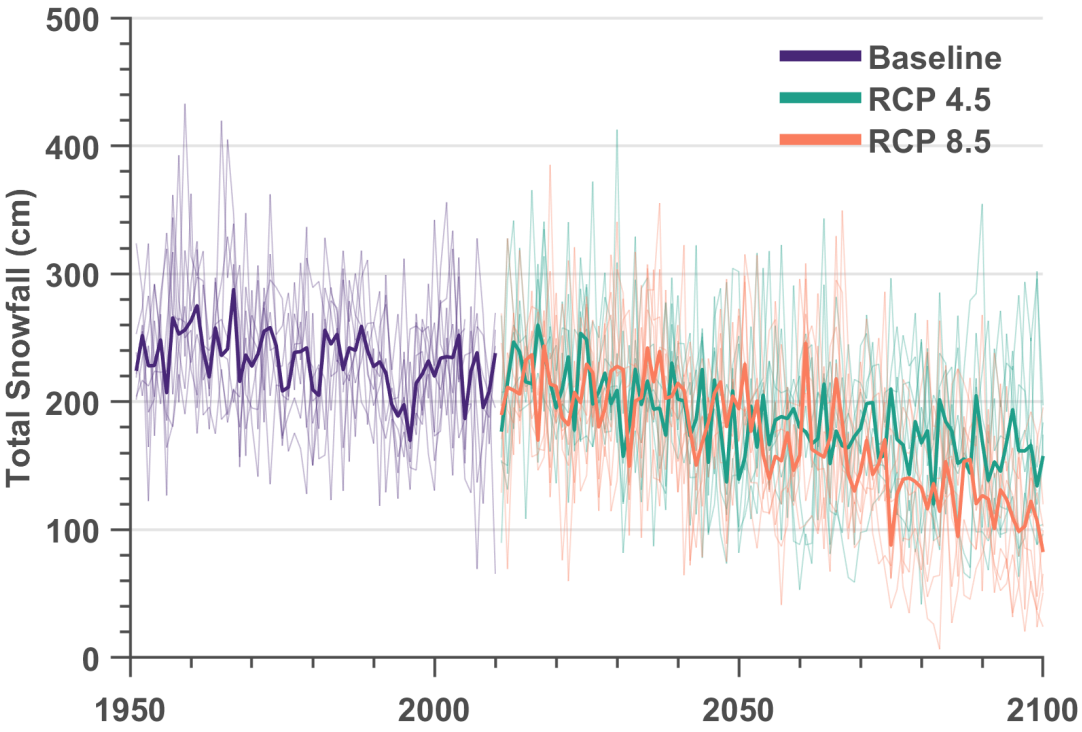


Figure F2.116: Annual Total Snowfall.

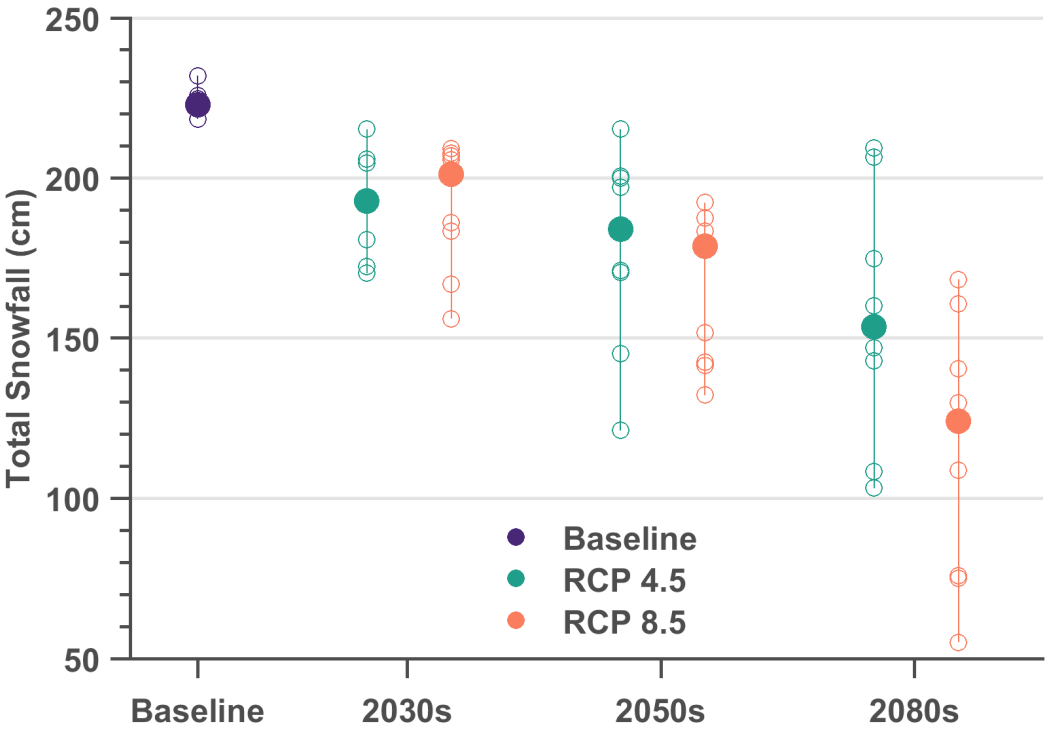


Figure F2.117: Annual Total Snowfall.

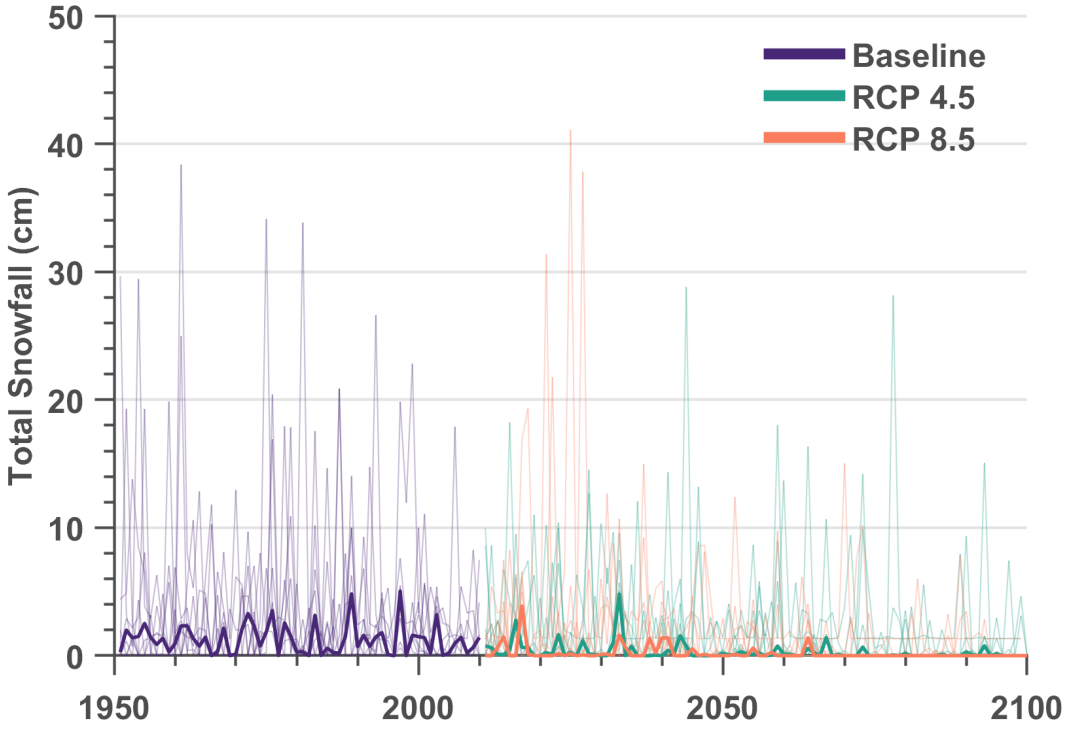


Figure F2.118: Monthly Total Snowfall - October.

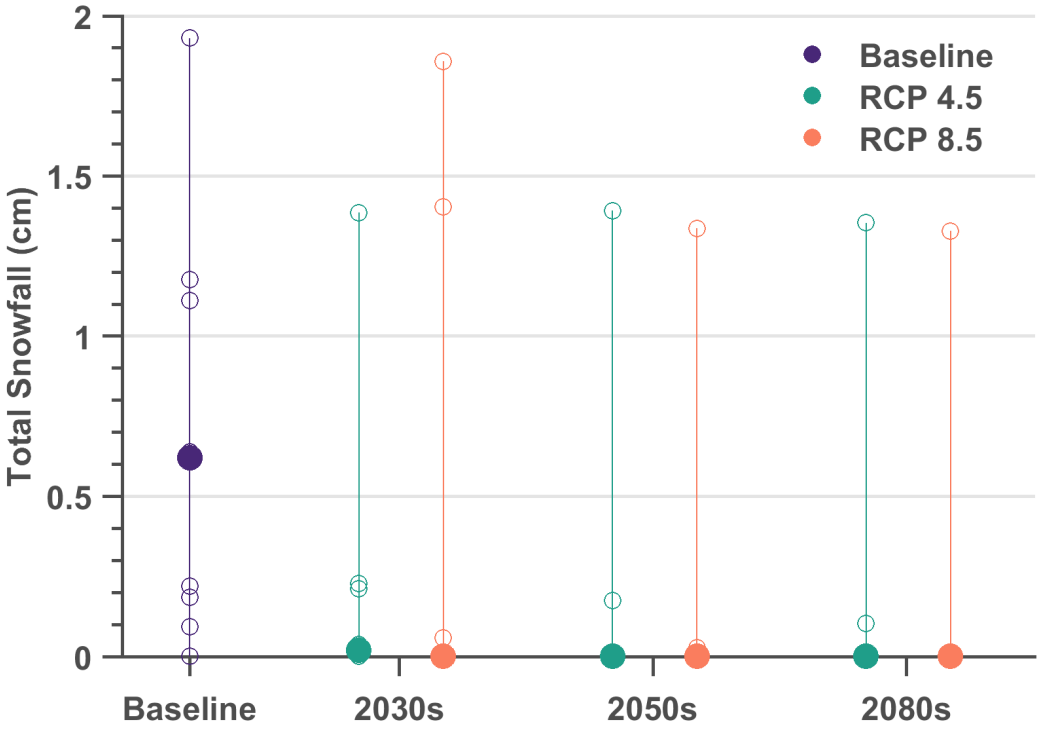


Figure F2.119: Monthly Total Snowfall - October.

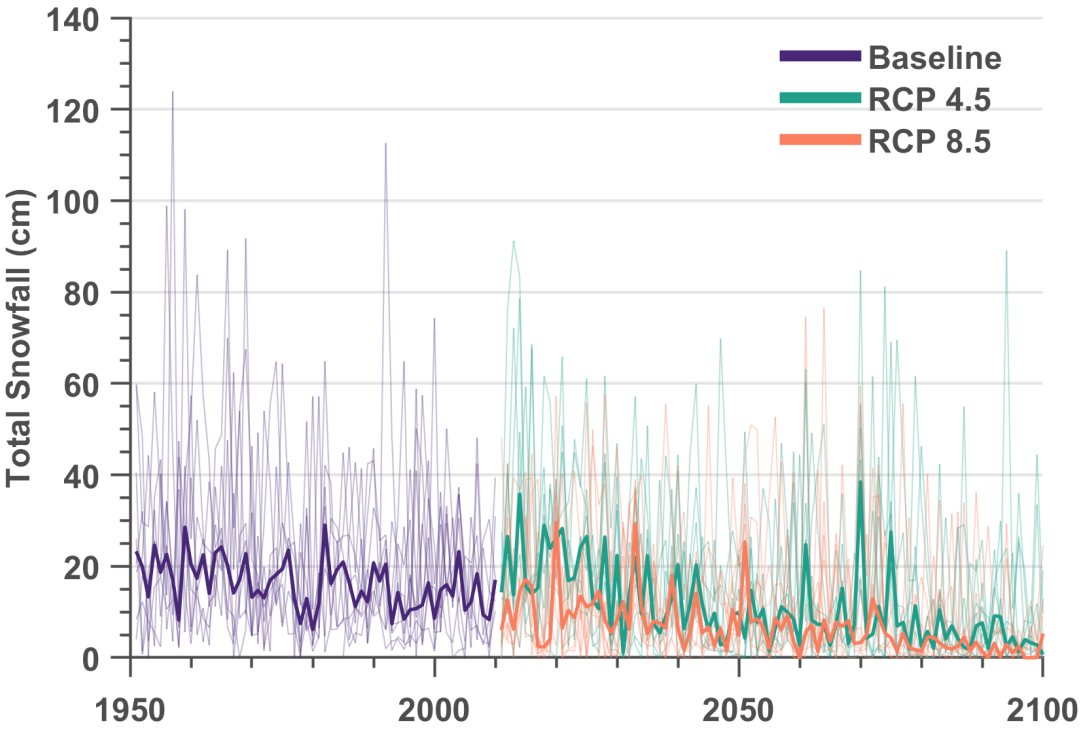


Figure F2.120: Monthly Total Snowfall - November.

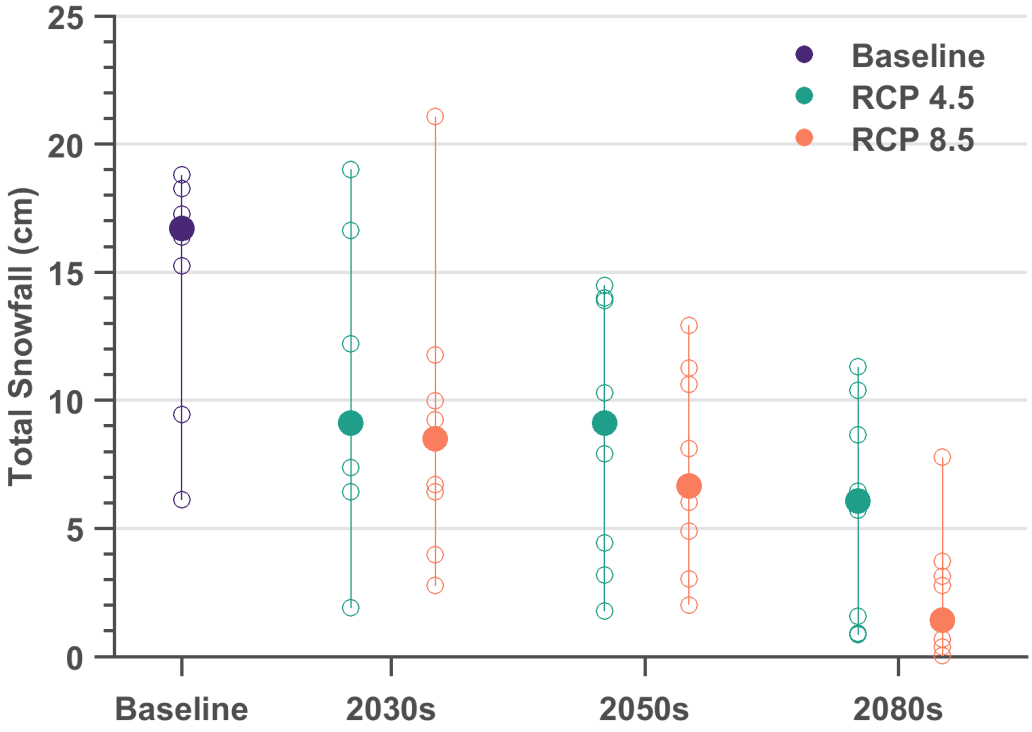


Figure F2.121: Monthly Total Snowfall - November.

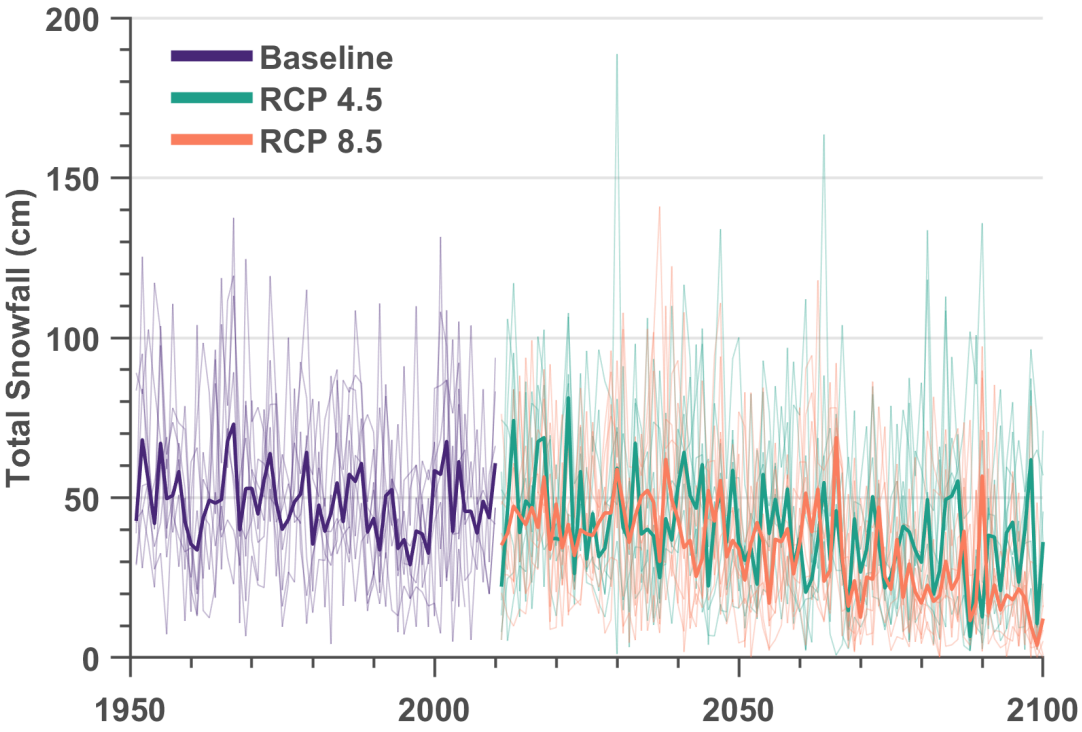


Figure F2.122: Monthly Total Snowfall - December.

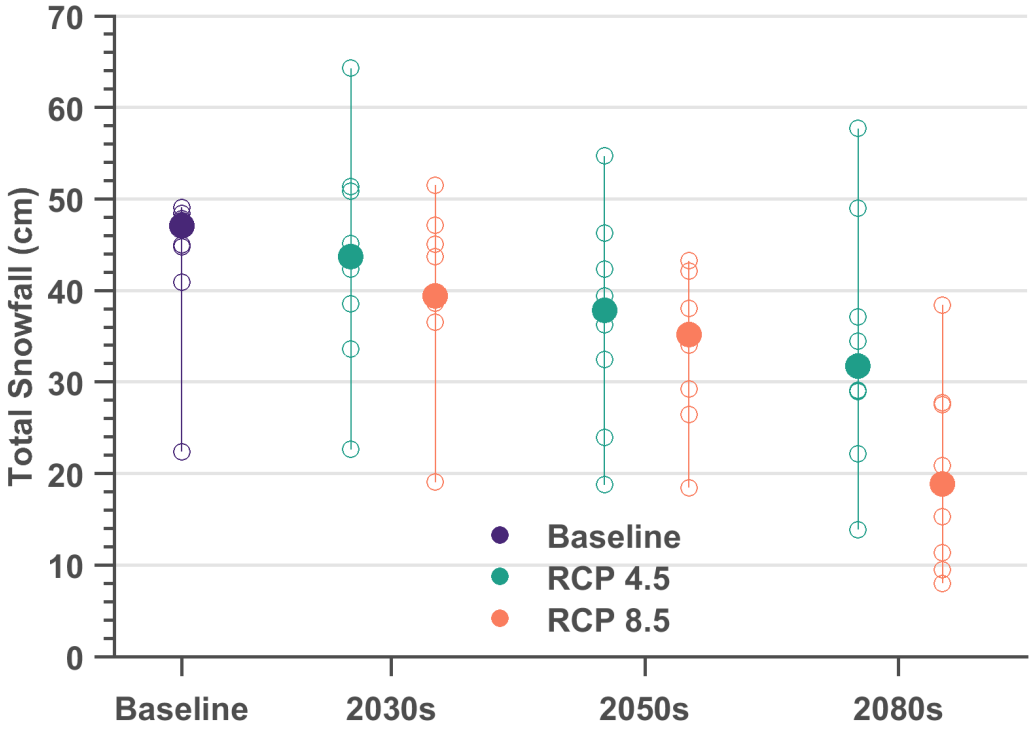


Figure F2.123: Monthly Total Snowfall - December.

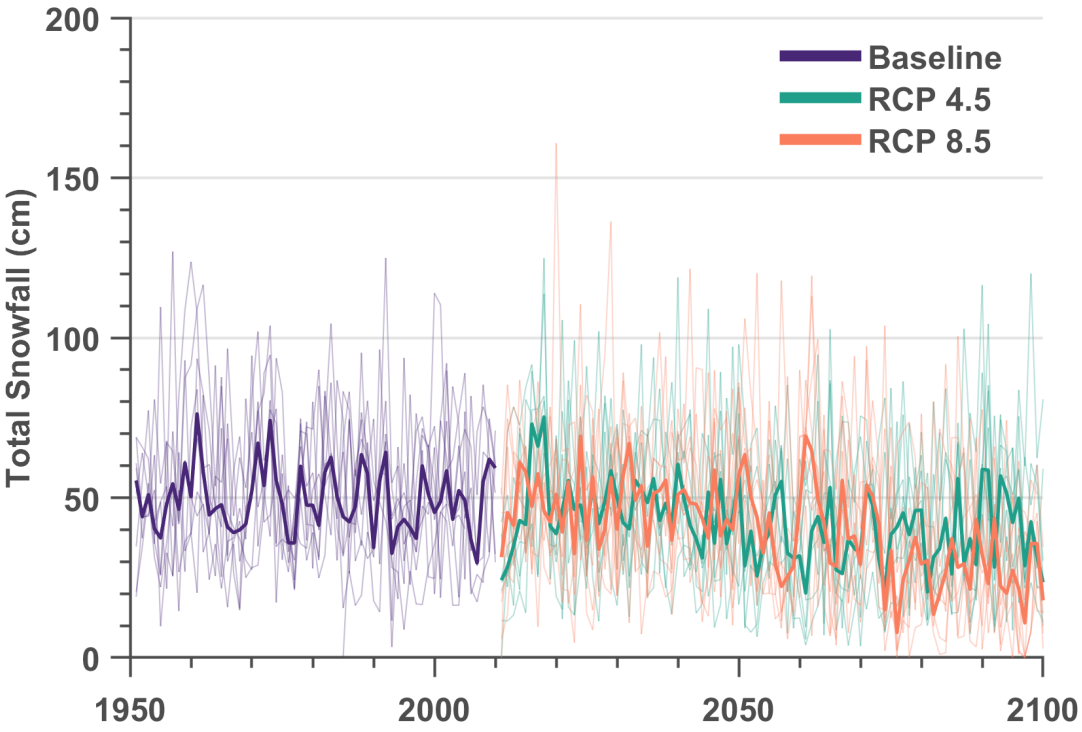


Figure F2.124: Monthly Total Snowfall - January.

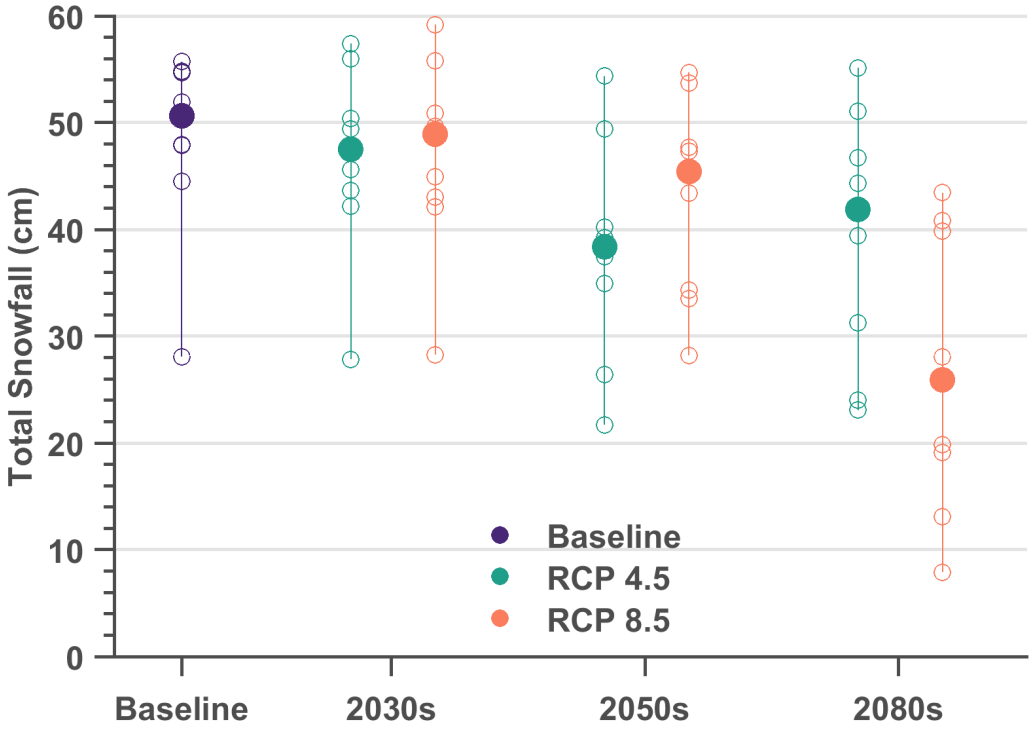


Figure F2.125: Monthly Total Snowfall - January.

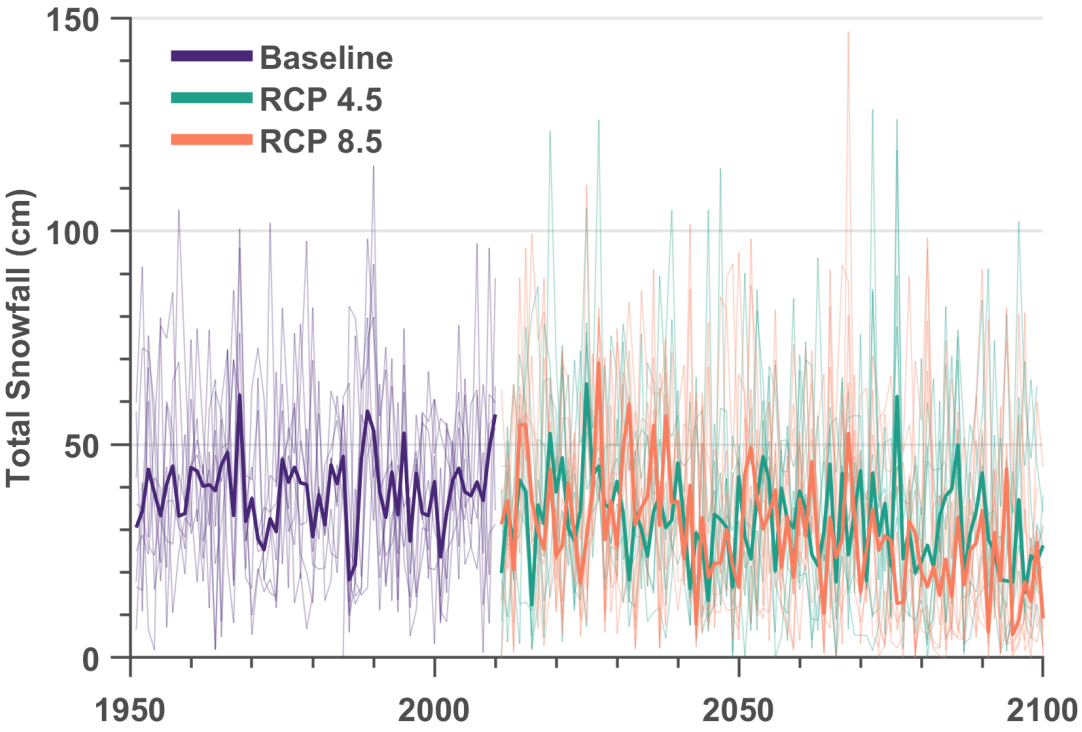


Figure F2.126: Monthly Total Snowfall - February.

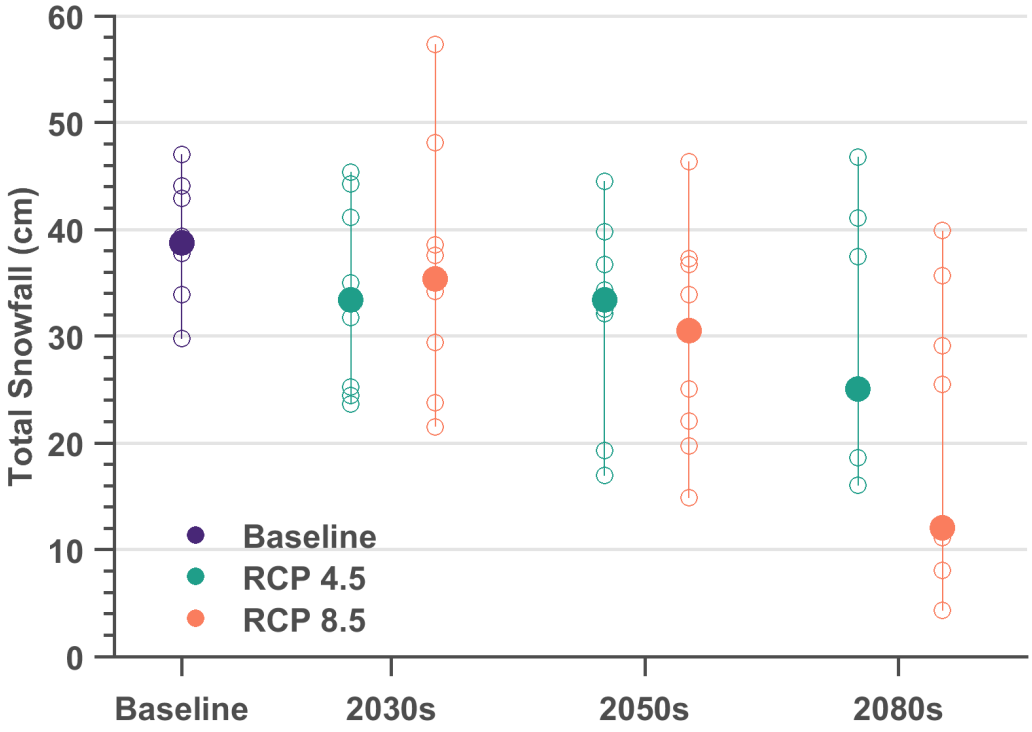


Figure F2.127: Monthly Total Snowfall - February.

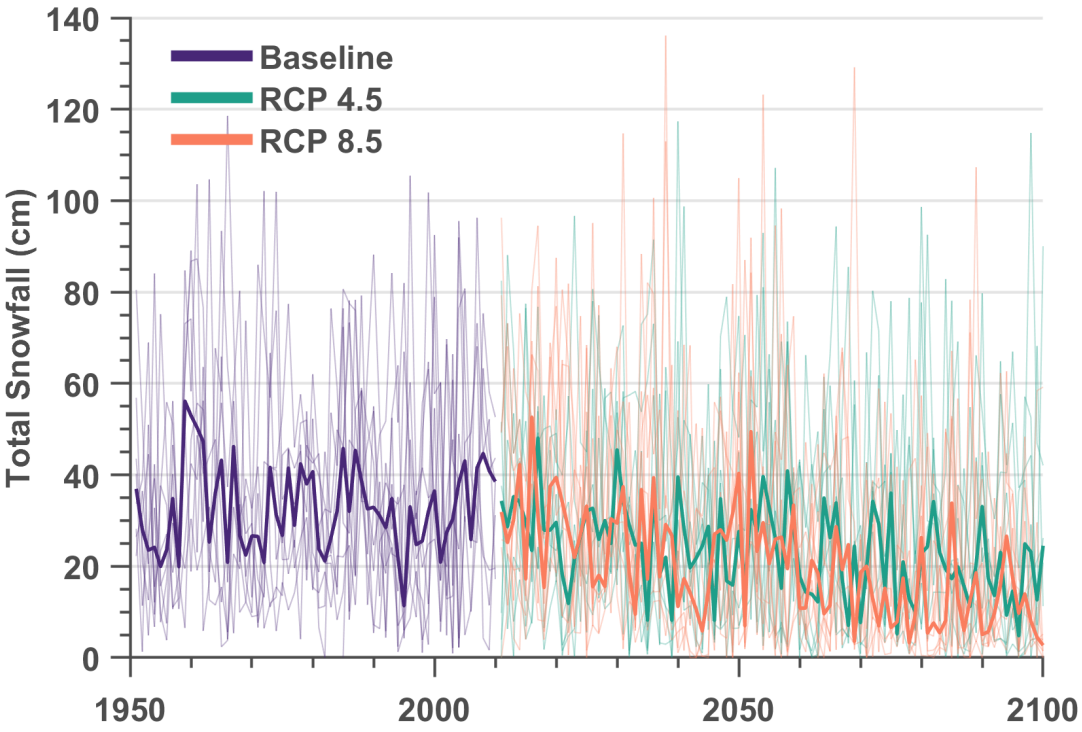


Figure F2.128: Monthly Total Snowfall - March.

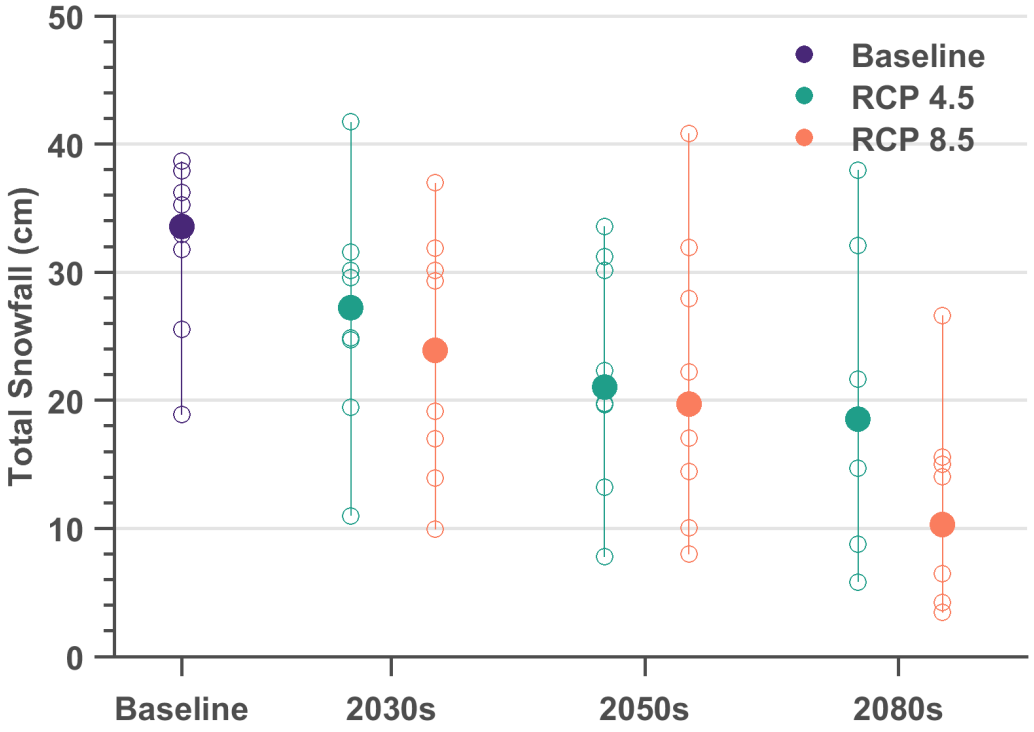


Figure F2.129: Monthly Total Snowfall - March.

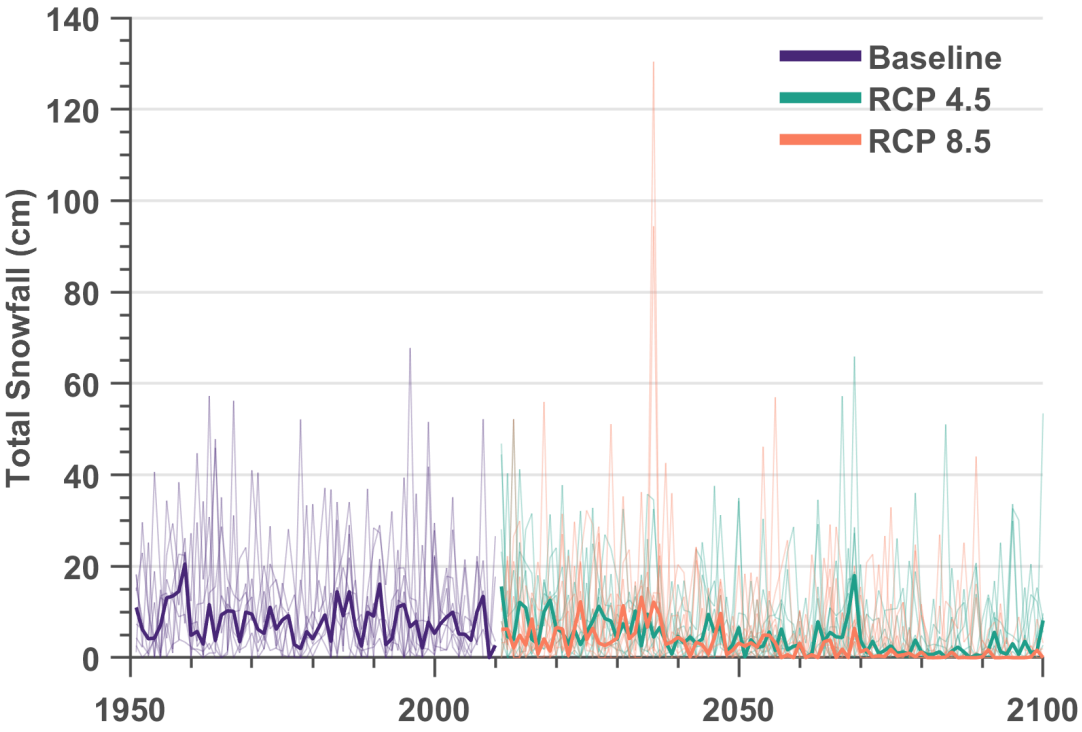


Figure F2.130: Monthly Total Snowfall - April.

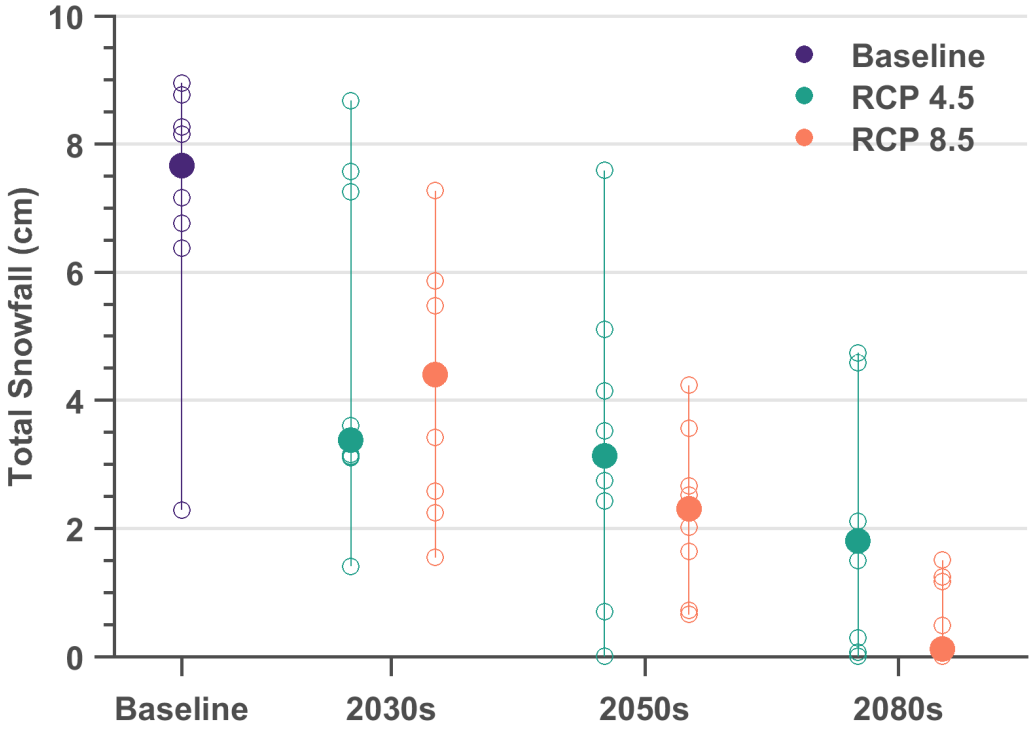


Figure F2.131: Monthly Total Snowfall - April.

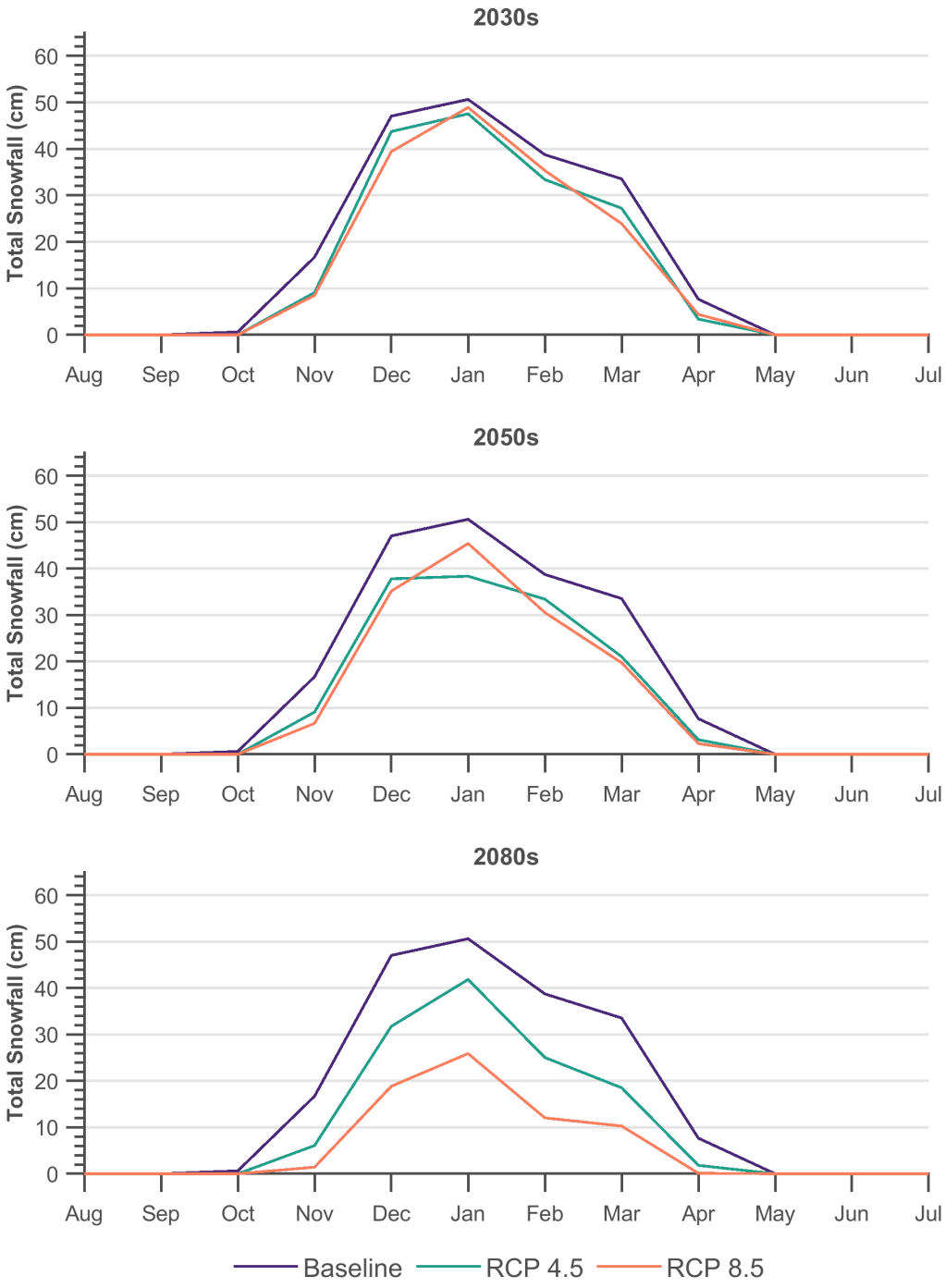


Figure F2.132: Monthly Total Snowfall.

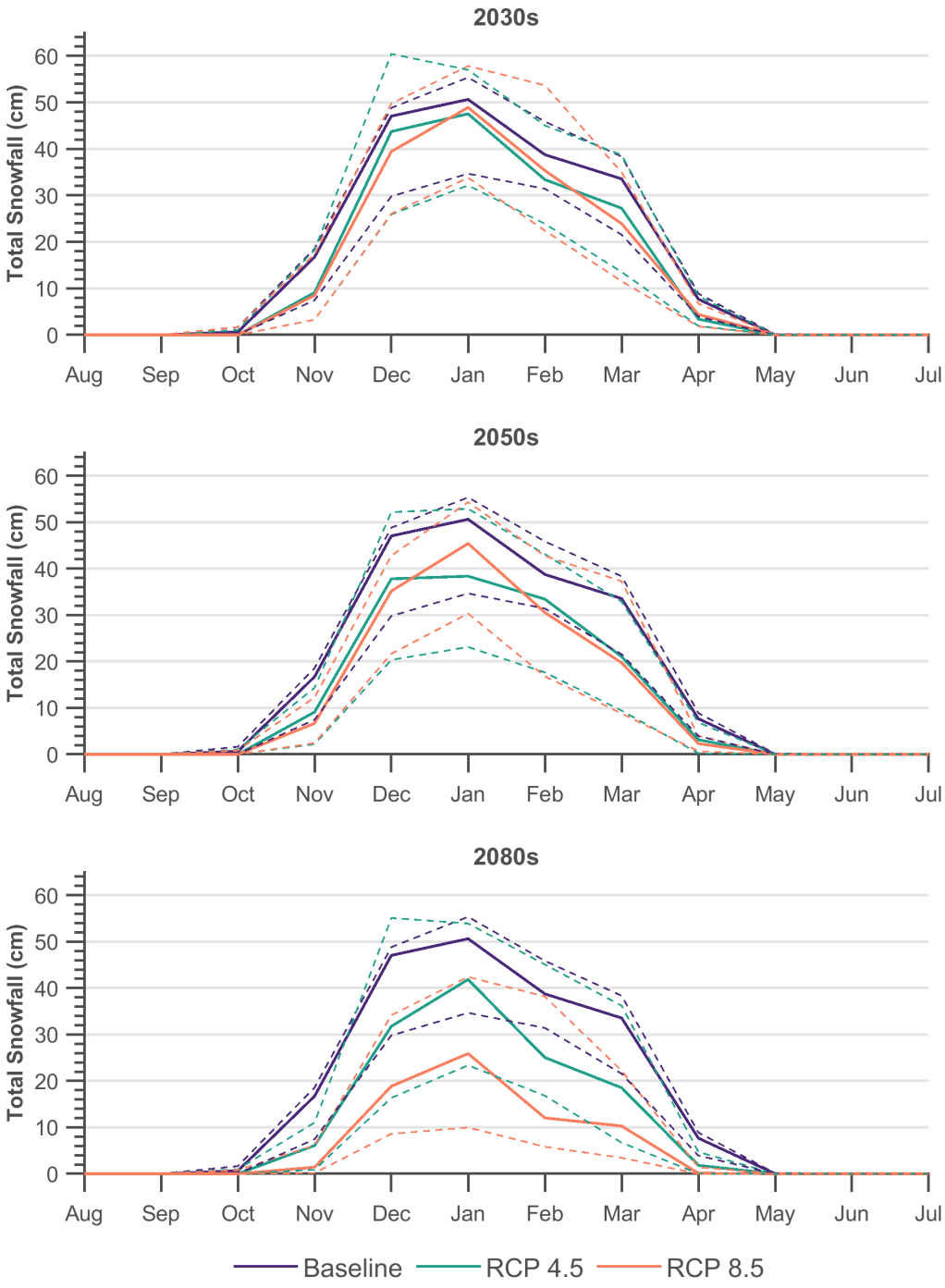


Figure F2.133: Monthly Total Snowfall. Dashed lines indicate the 10% and 90% percentile.

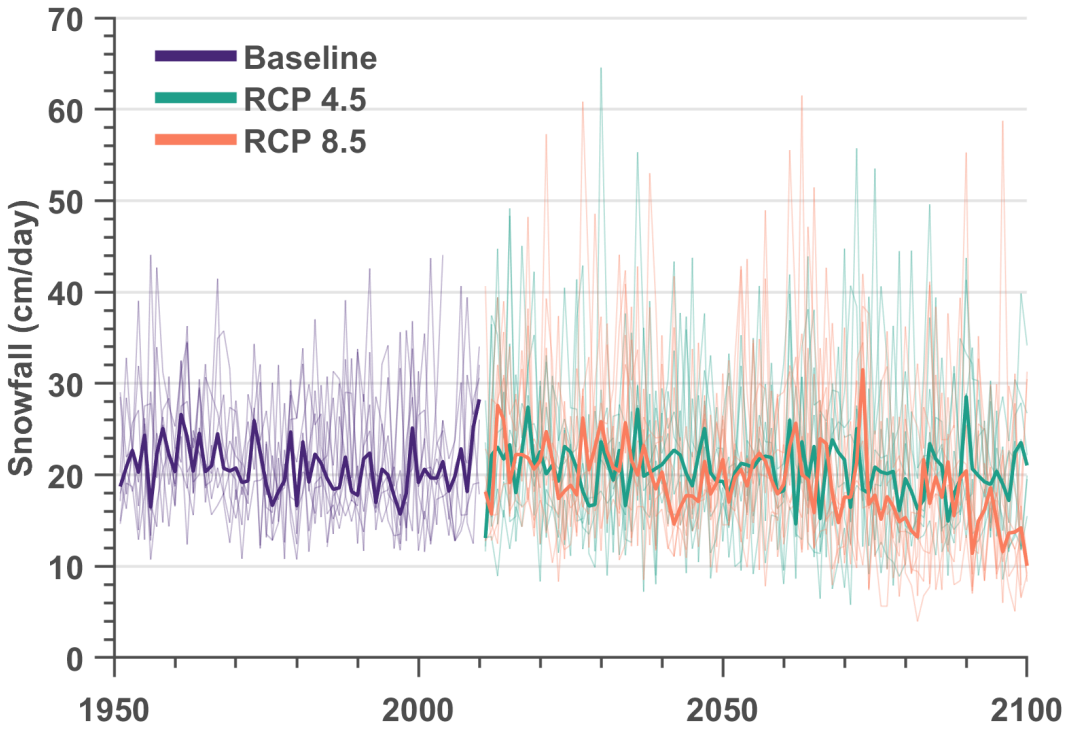


Figure F2.134: Annual Max. 1-Day Snowfall.

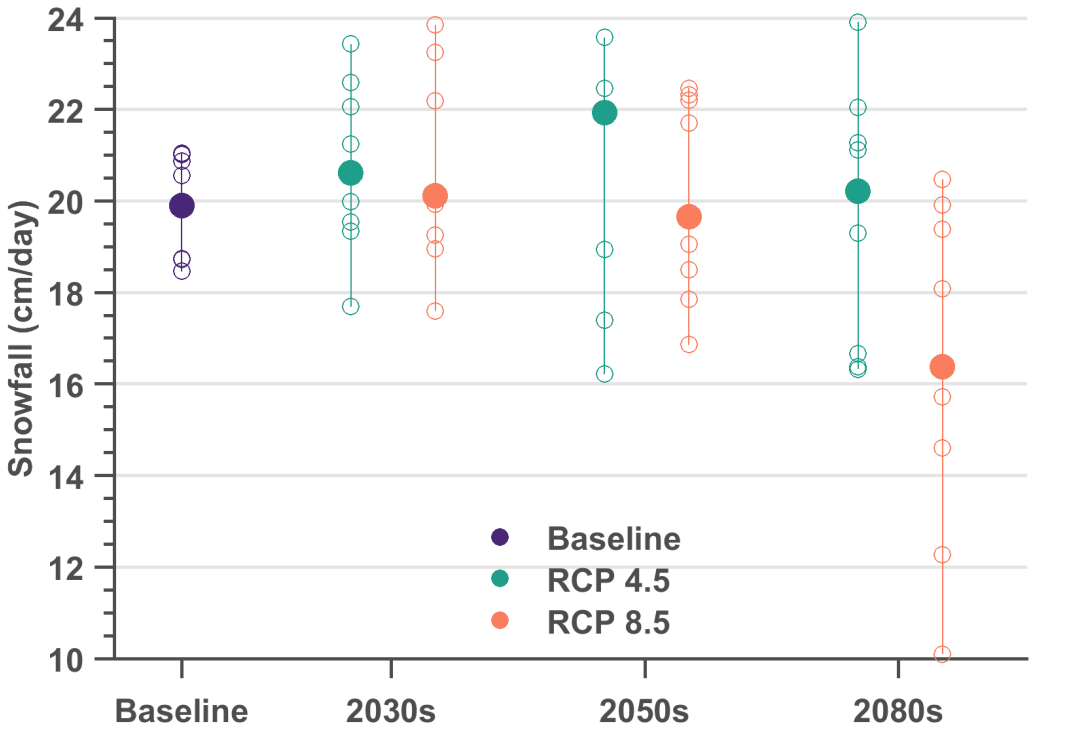


Figure F2.135: Annual Max. 1-Day Snowfall.

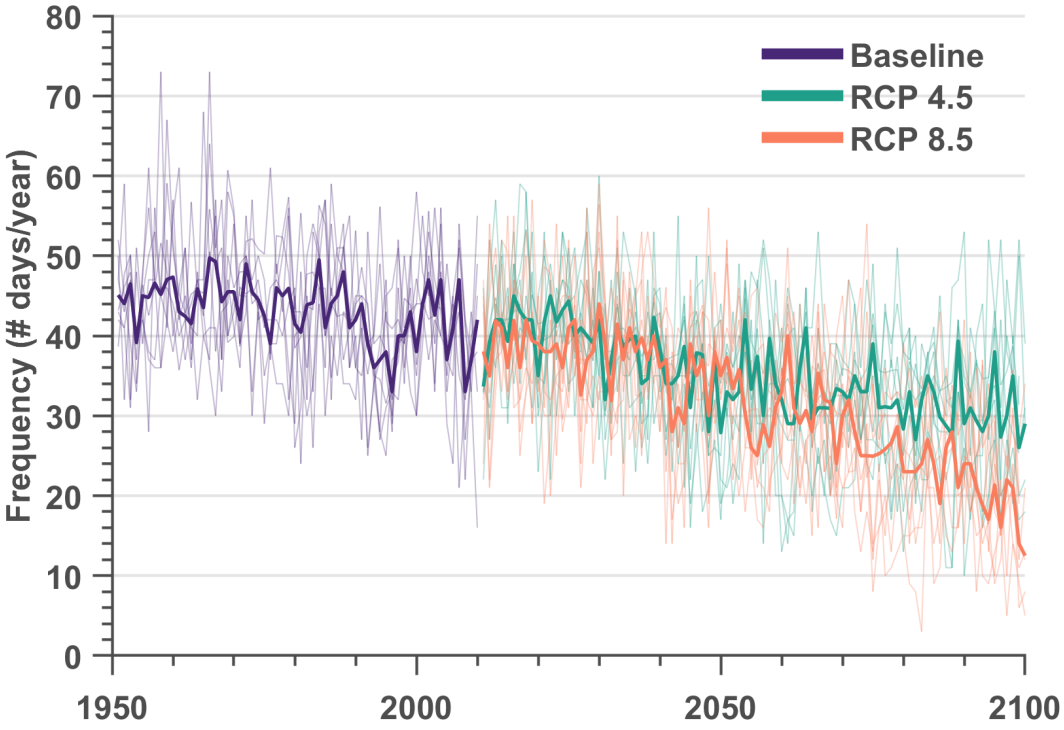


Figure F2.136: Number of Days with Snowfall.

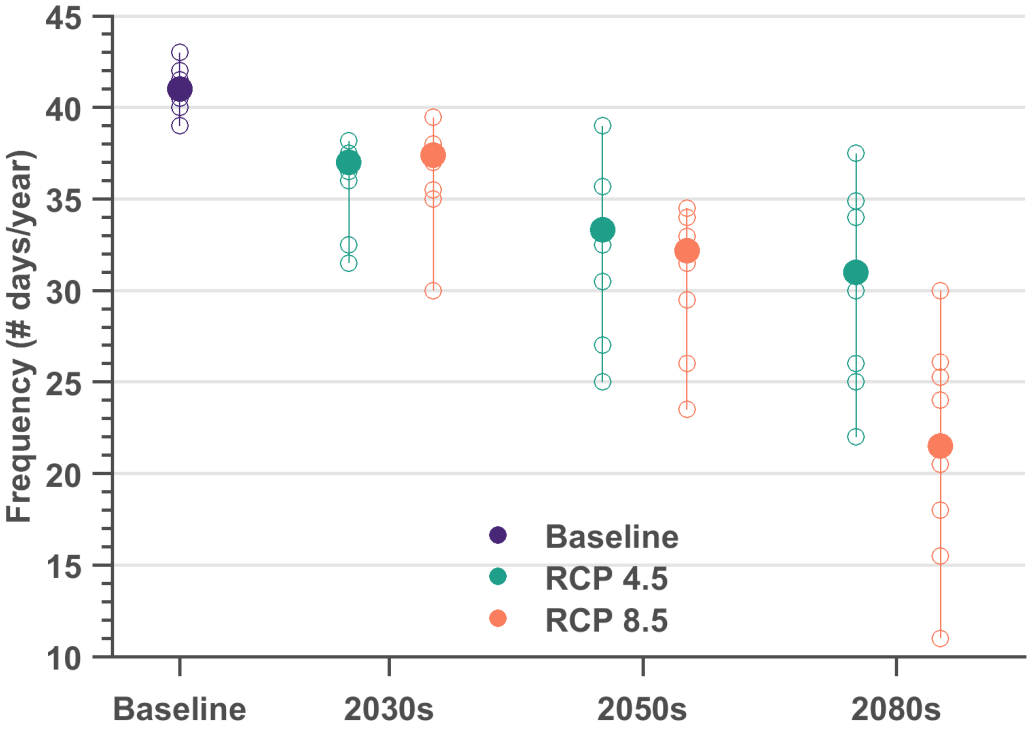


Figure F2.137: Number of Days with Snowfall.

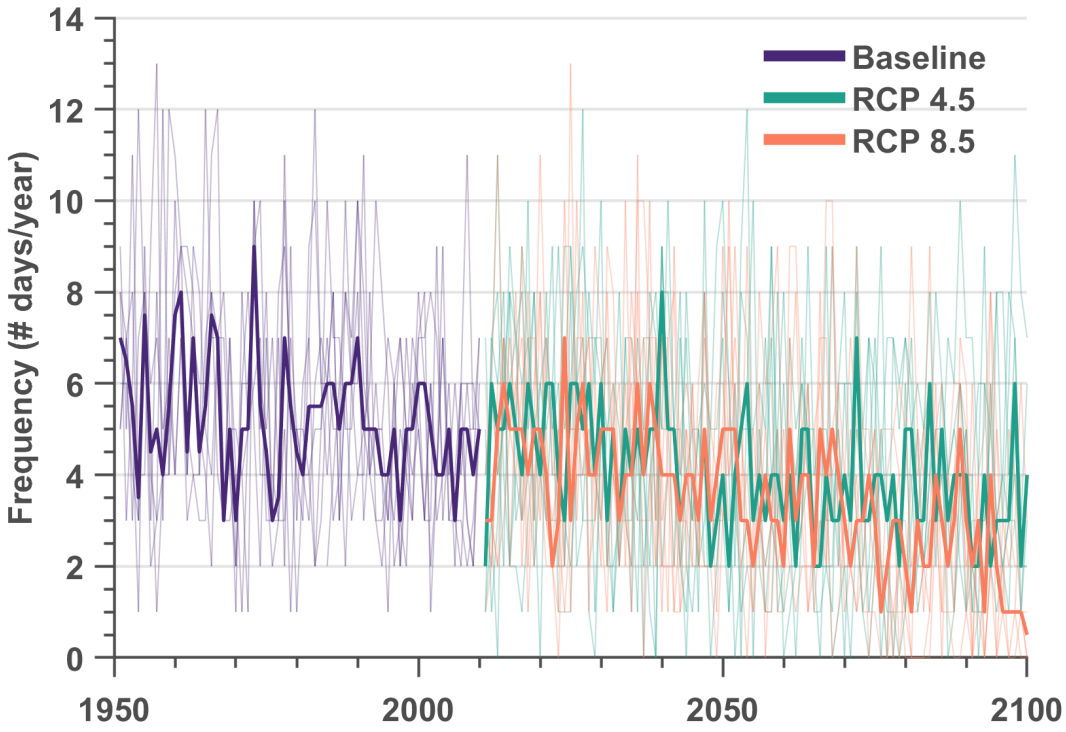


Figure F2.138: Number of Days with Snowfall >= 10 cm/day.

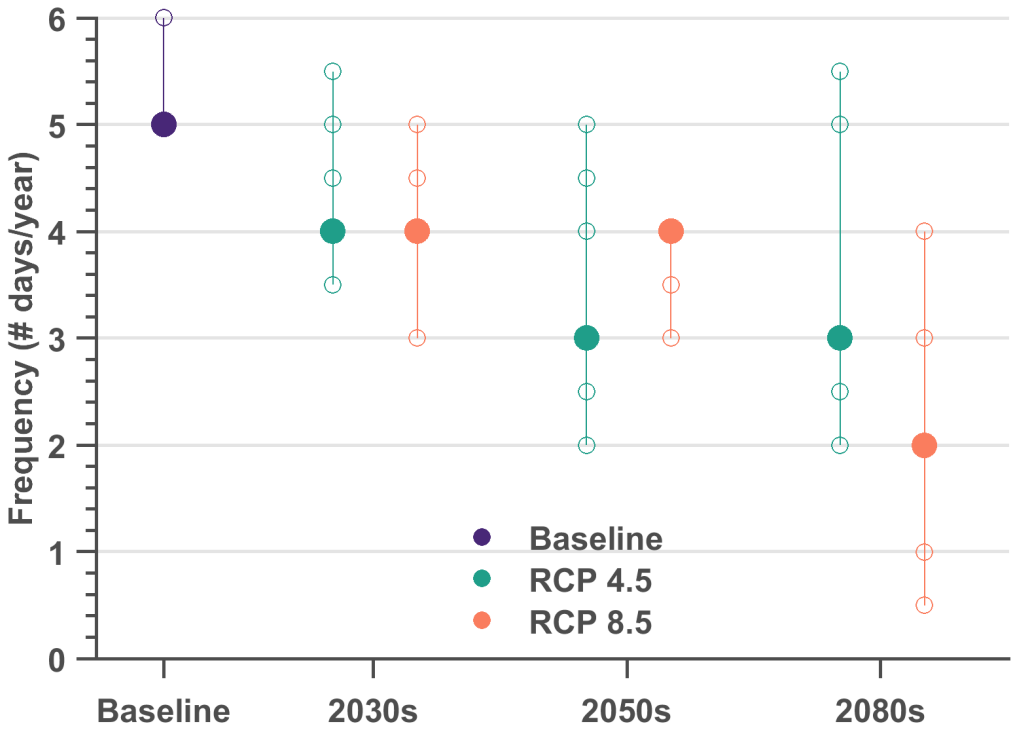


Figure F2.139: Number of Days with Snowfall >= 10 cm/day.

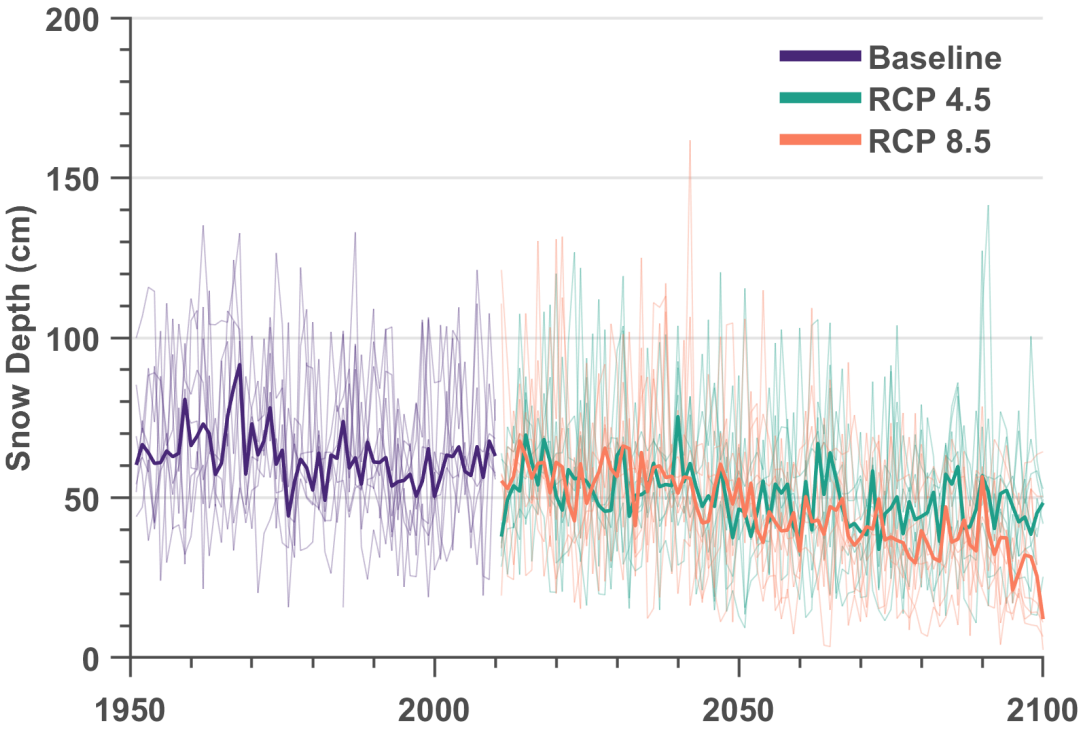


Figure F2.140: Annual Max. Snow Depth.

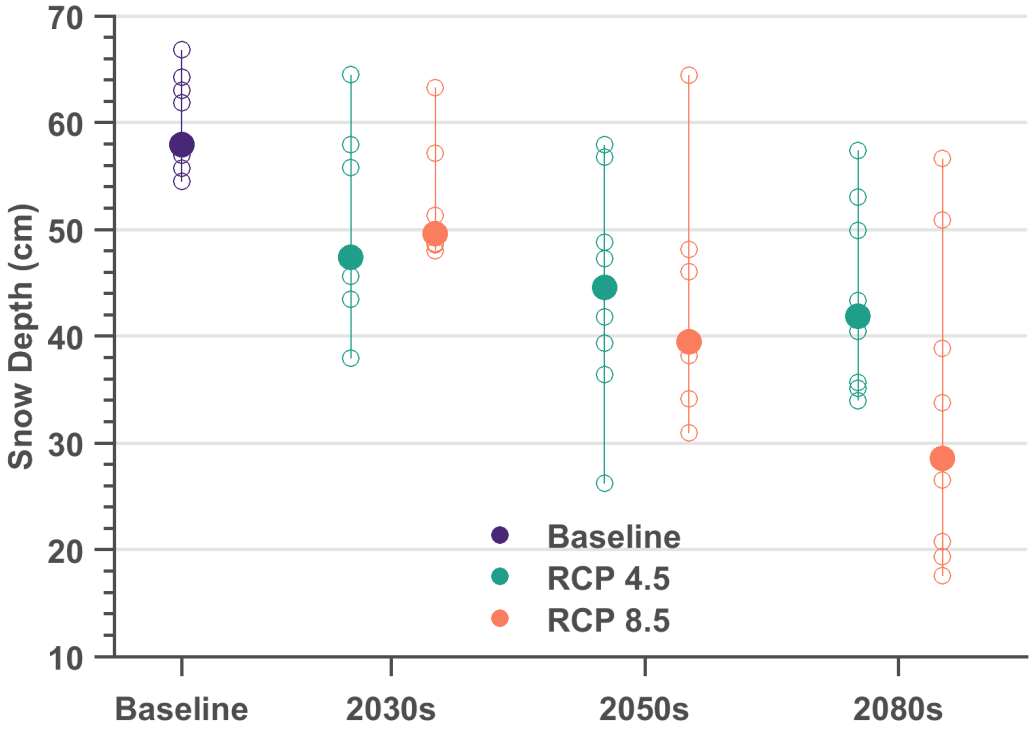


Figure F2.141: Annual Max. Snow Depth.

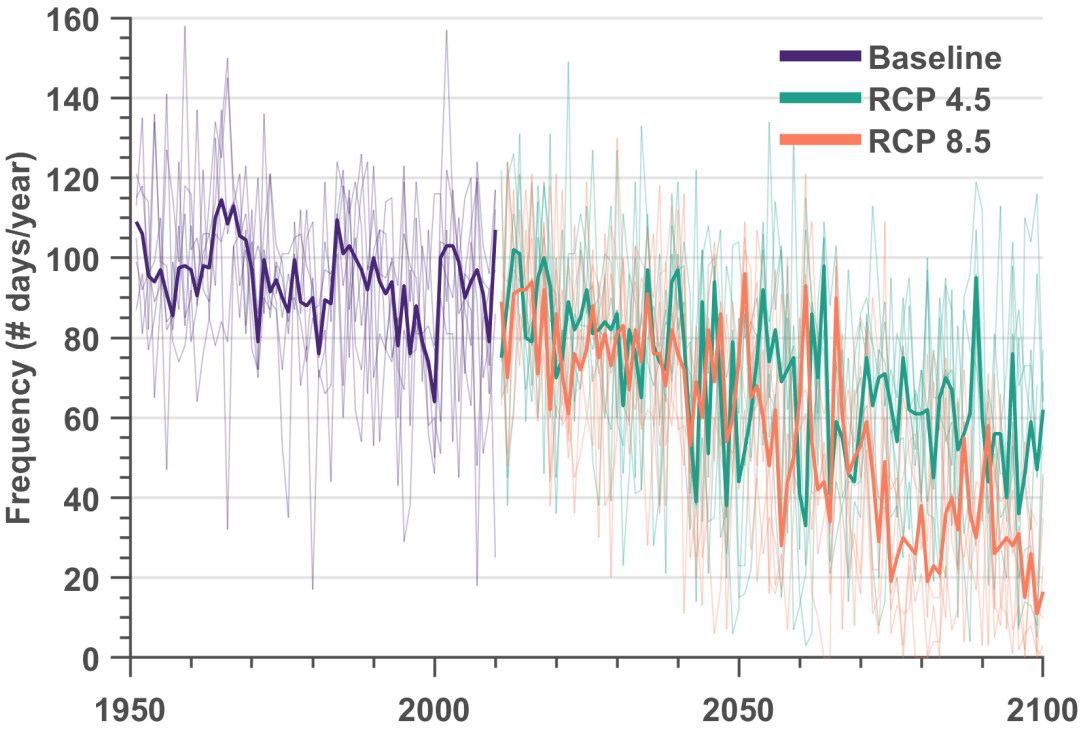


Figure F2.142: Number of Days with Snow Depth > 8 cm.

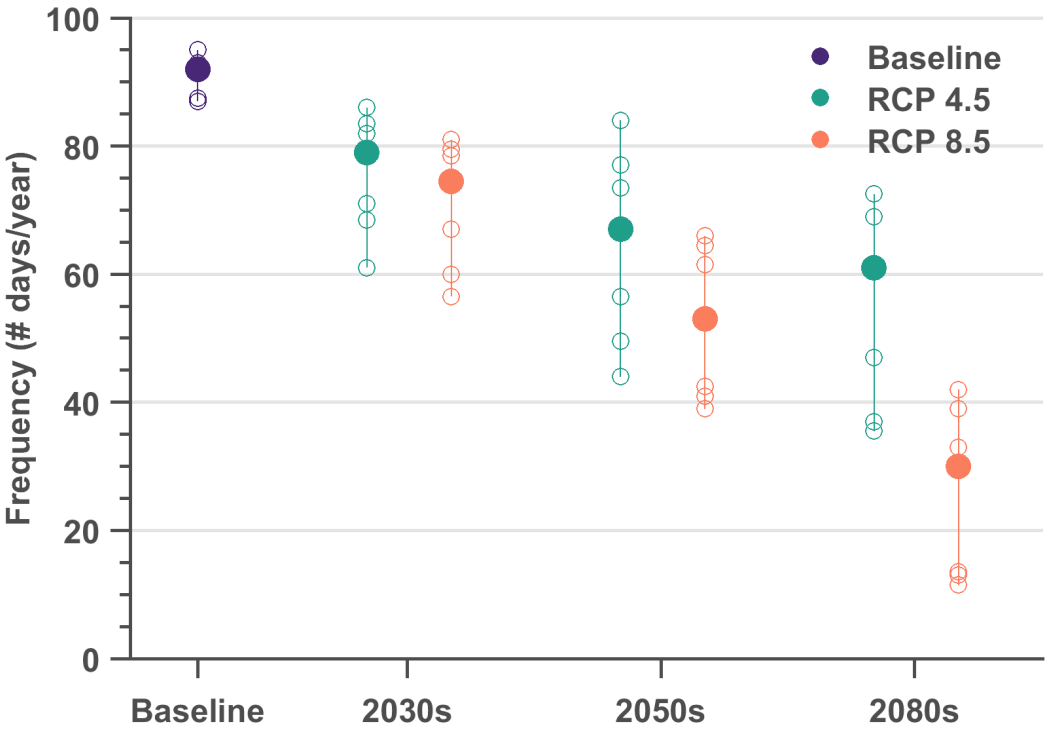


Figure F2.143: Number of Days with Snow Depth > 8 cm.

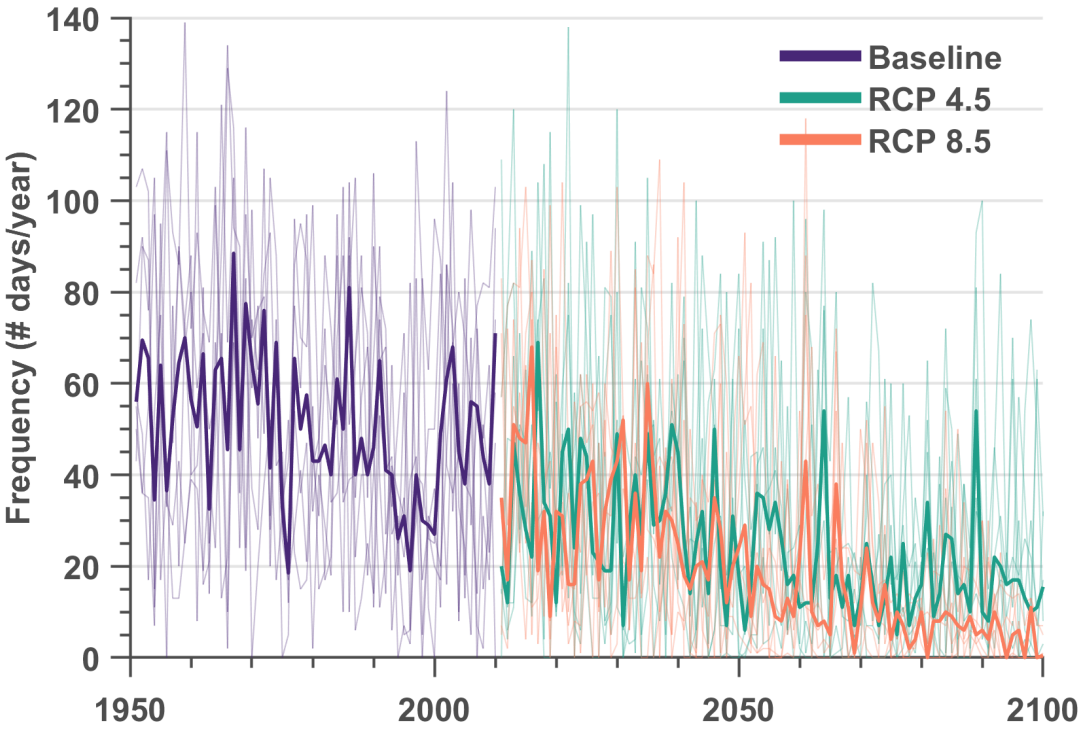


Figure F2.144: Number of Days with Snow Depth > 21 cm.

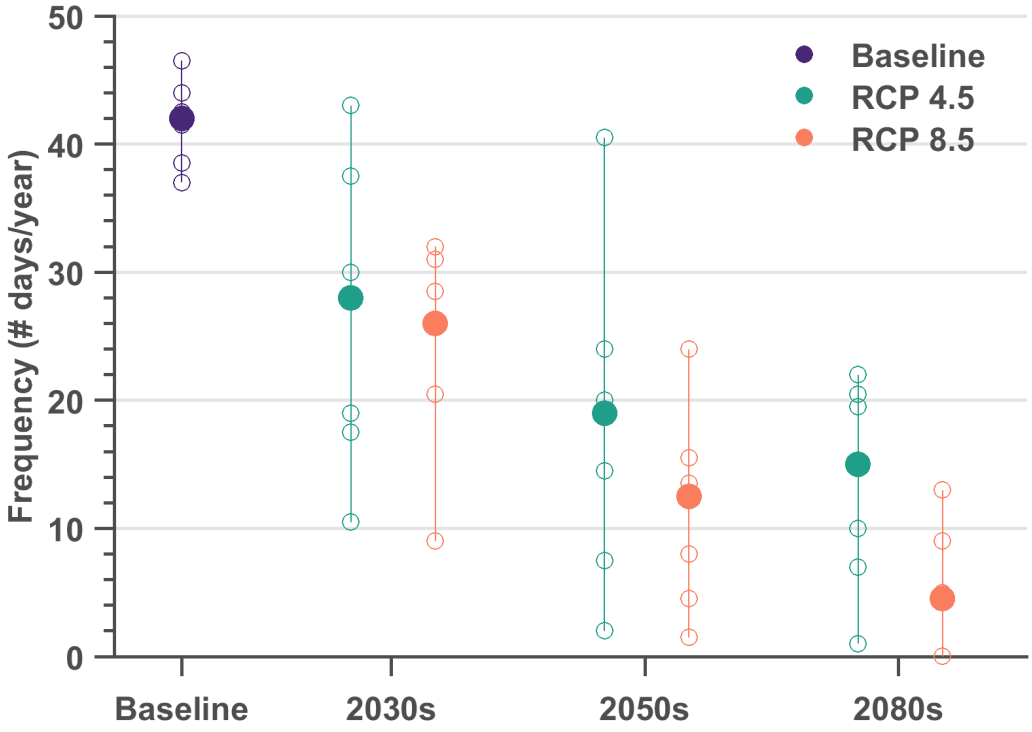


Figure F2.145: Number of Days with Snow Depth > 21 cm.

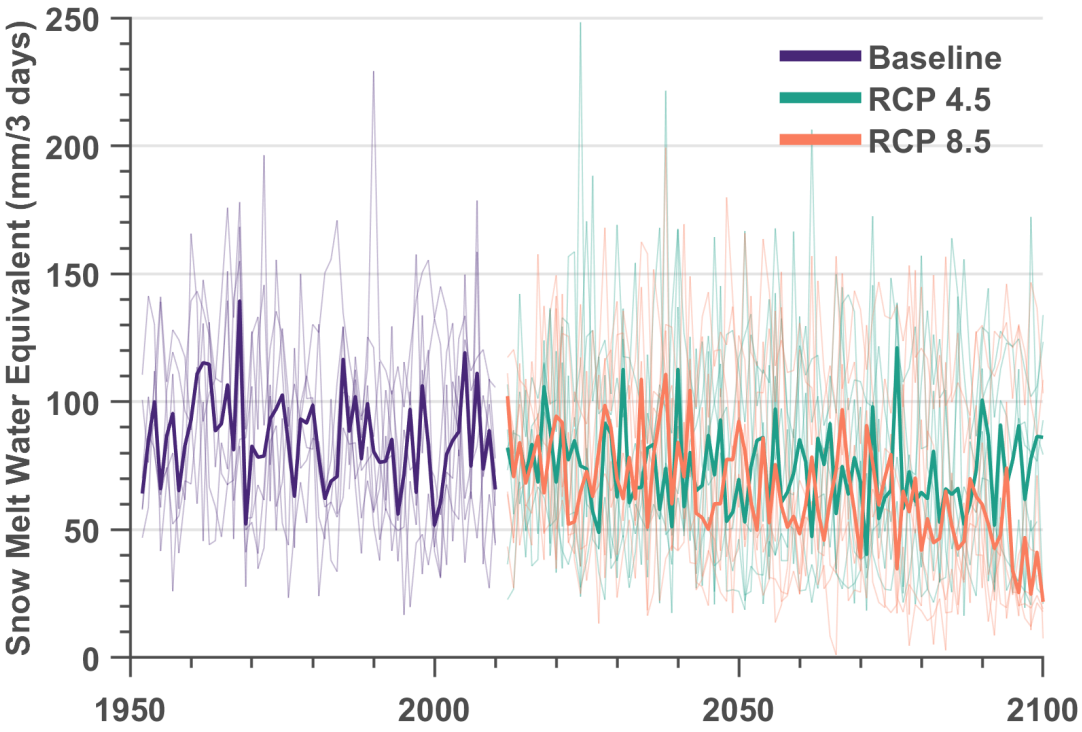


Figure F2.146: Annual Max. 3-Day Snow Melt Water Equivalent.

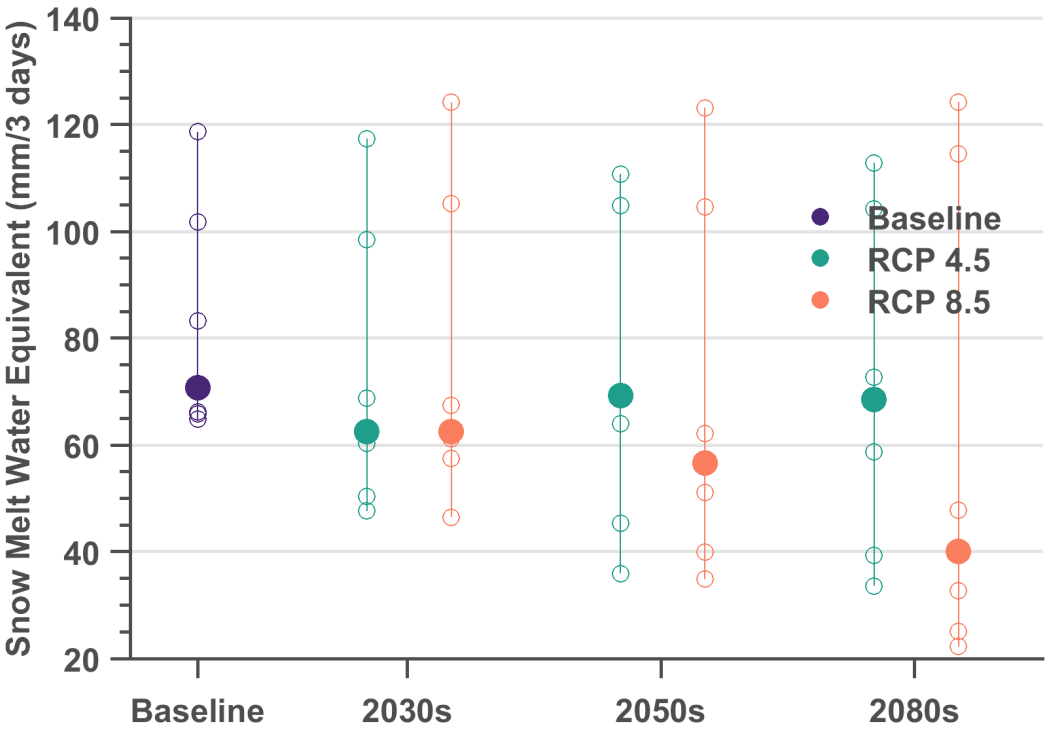


Figure F2.147: Annual Max. 3-Day Snow Melt Water Equivalent.

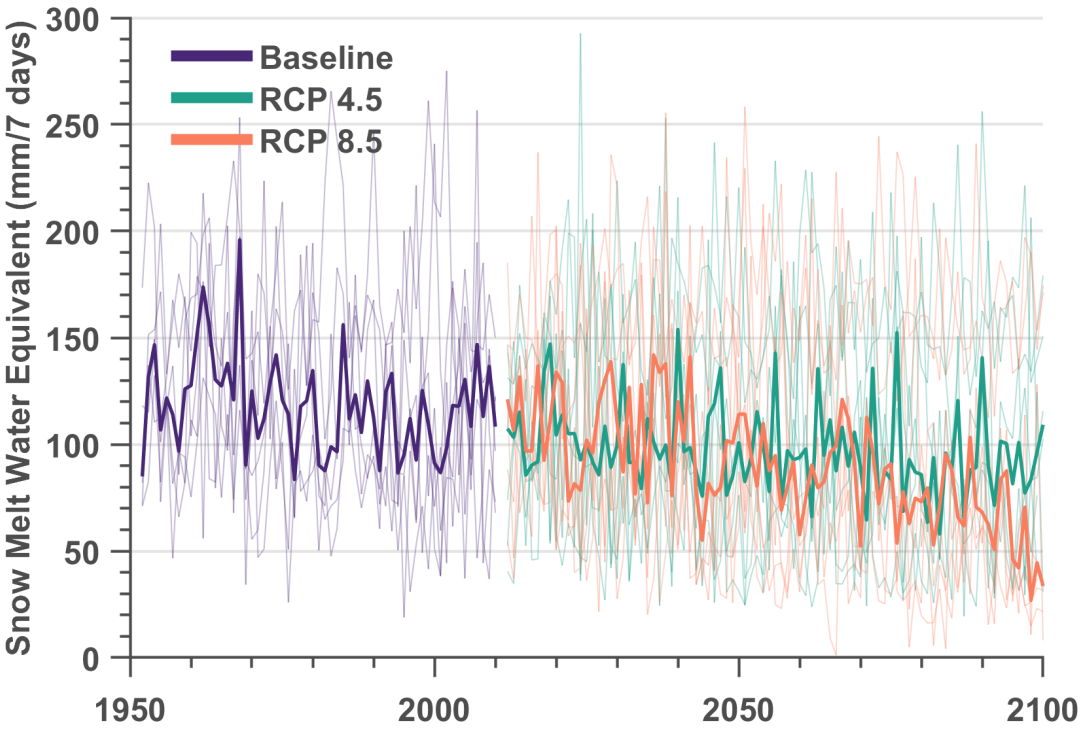


Figure F2.148: Annual Max. 7-Day Snow Melt Water Equivalent.

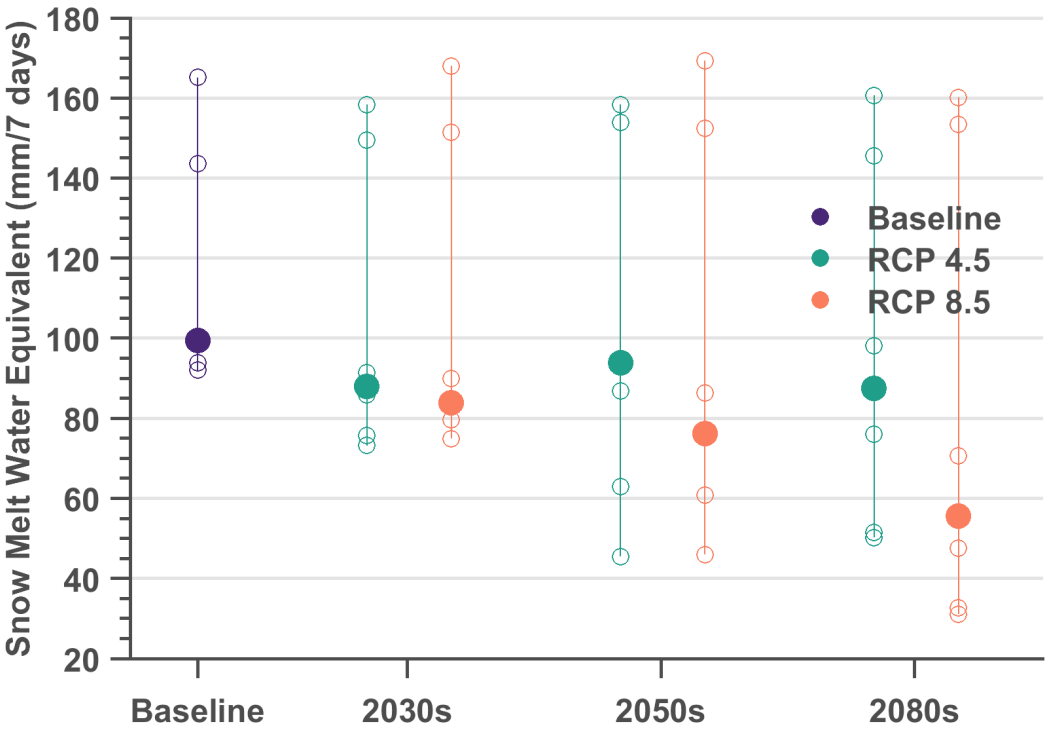


Figure F2.149: Annual Max. 7-Day Snow Melt Water Equivalent.

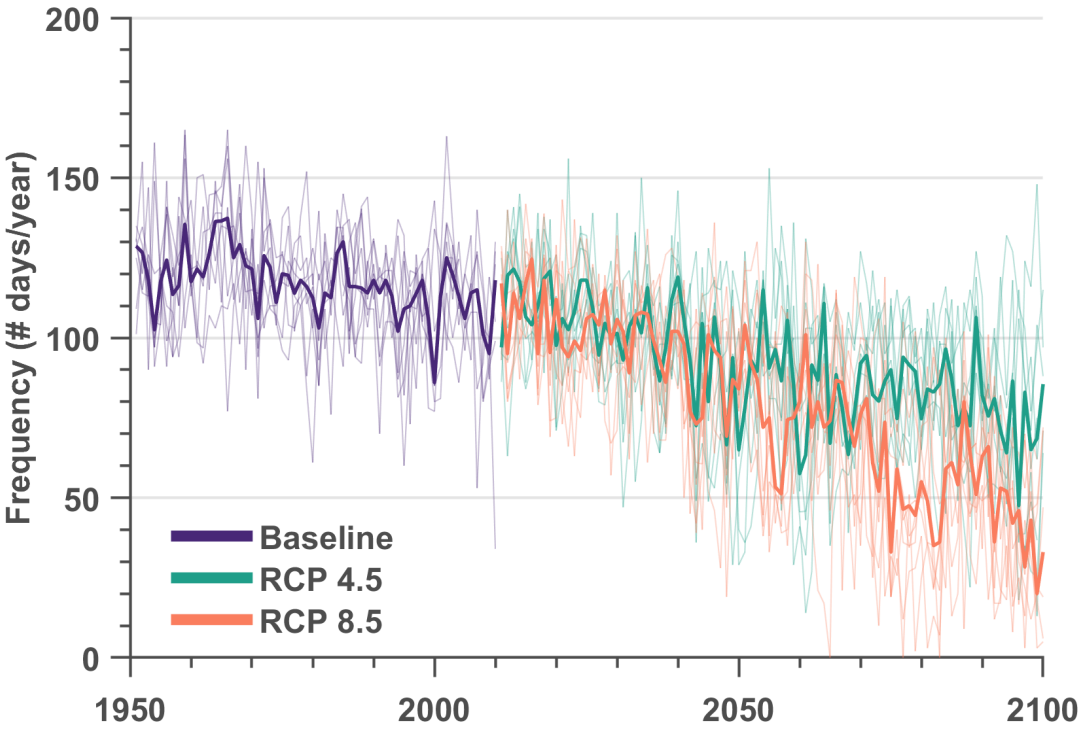


Figure F2.150: Number of Days with Snow Cover.

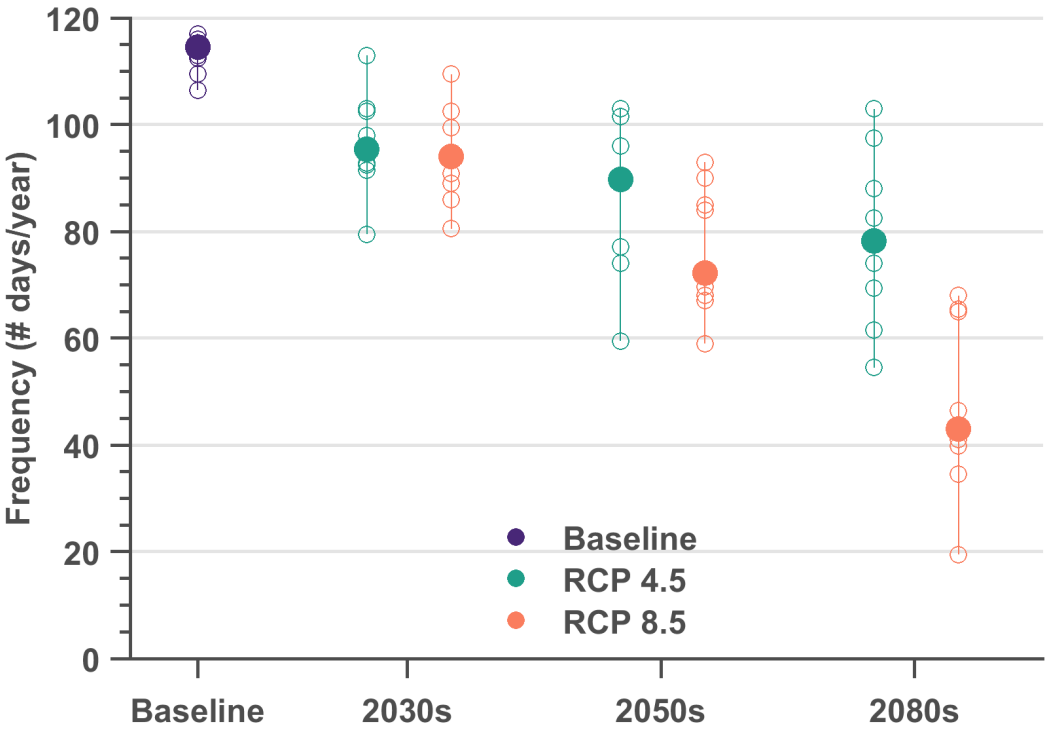


Figure F2.151: Number of Days with Snow Cover.

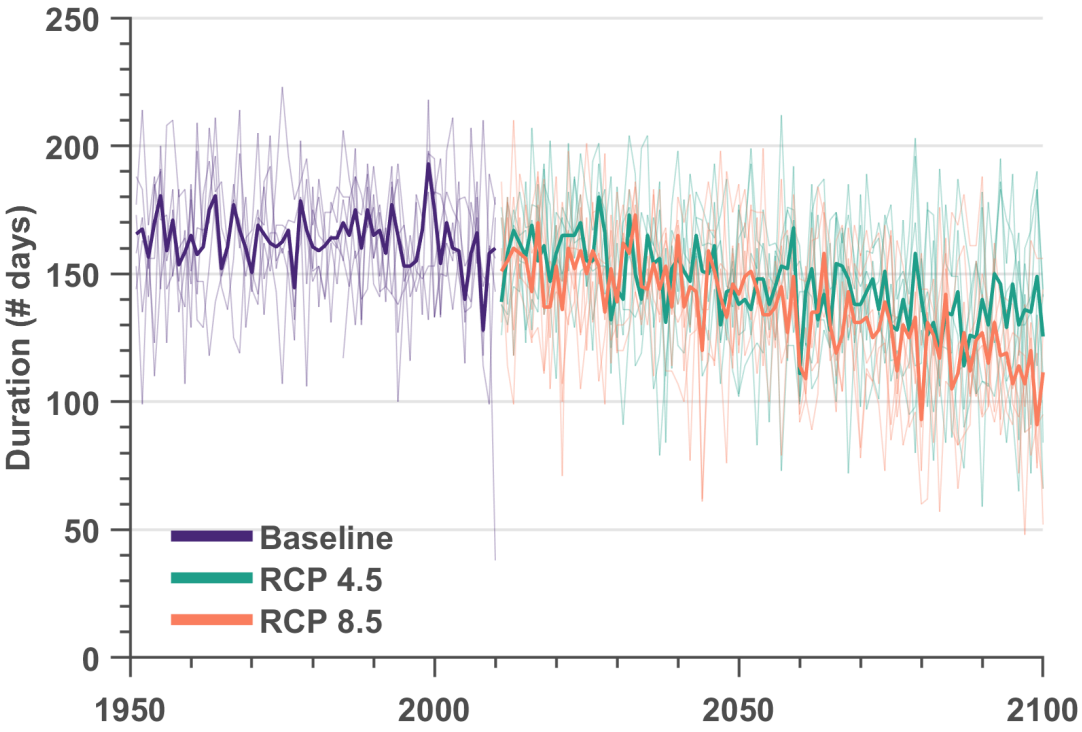


Figure F2.152: Duration From First to Last Day of Snow.

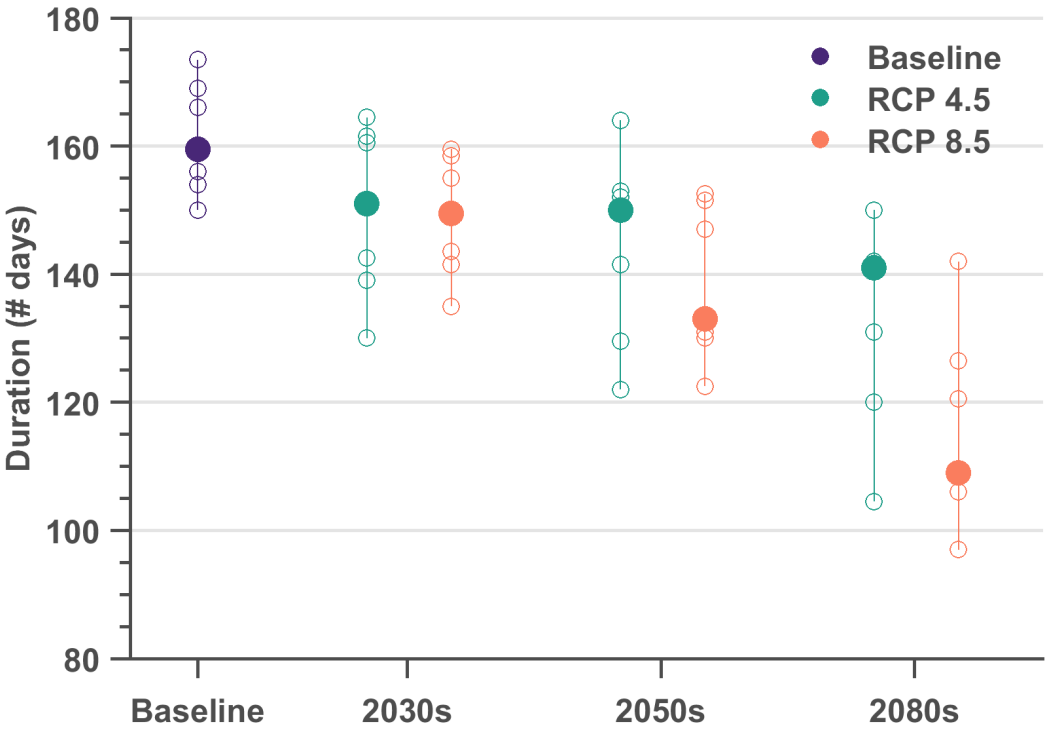


Figure F2.153: Duration From First to Last Day of Snow.

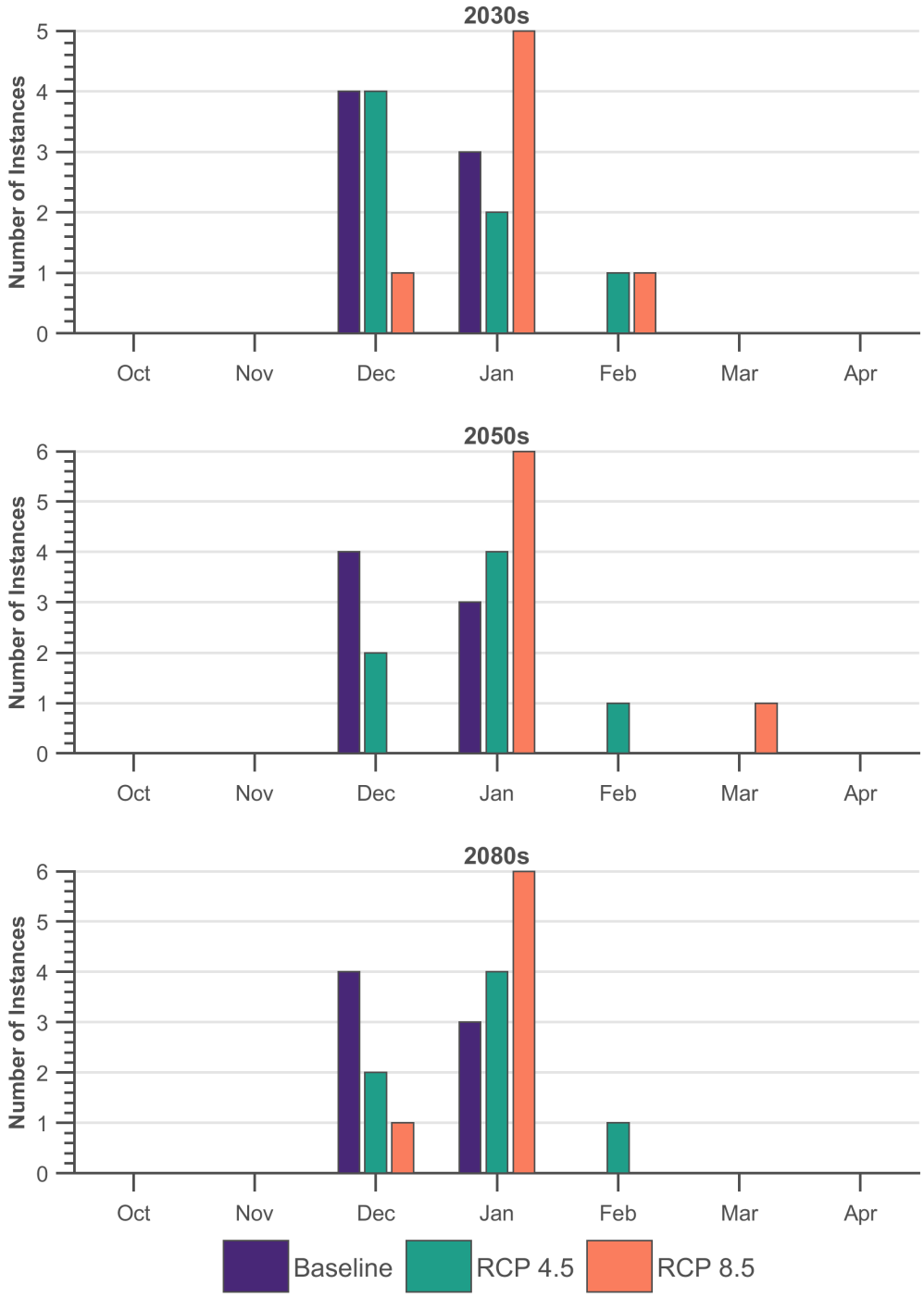


Figure F2.154: Timing of Month with Max. Snowfall.

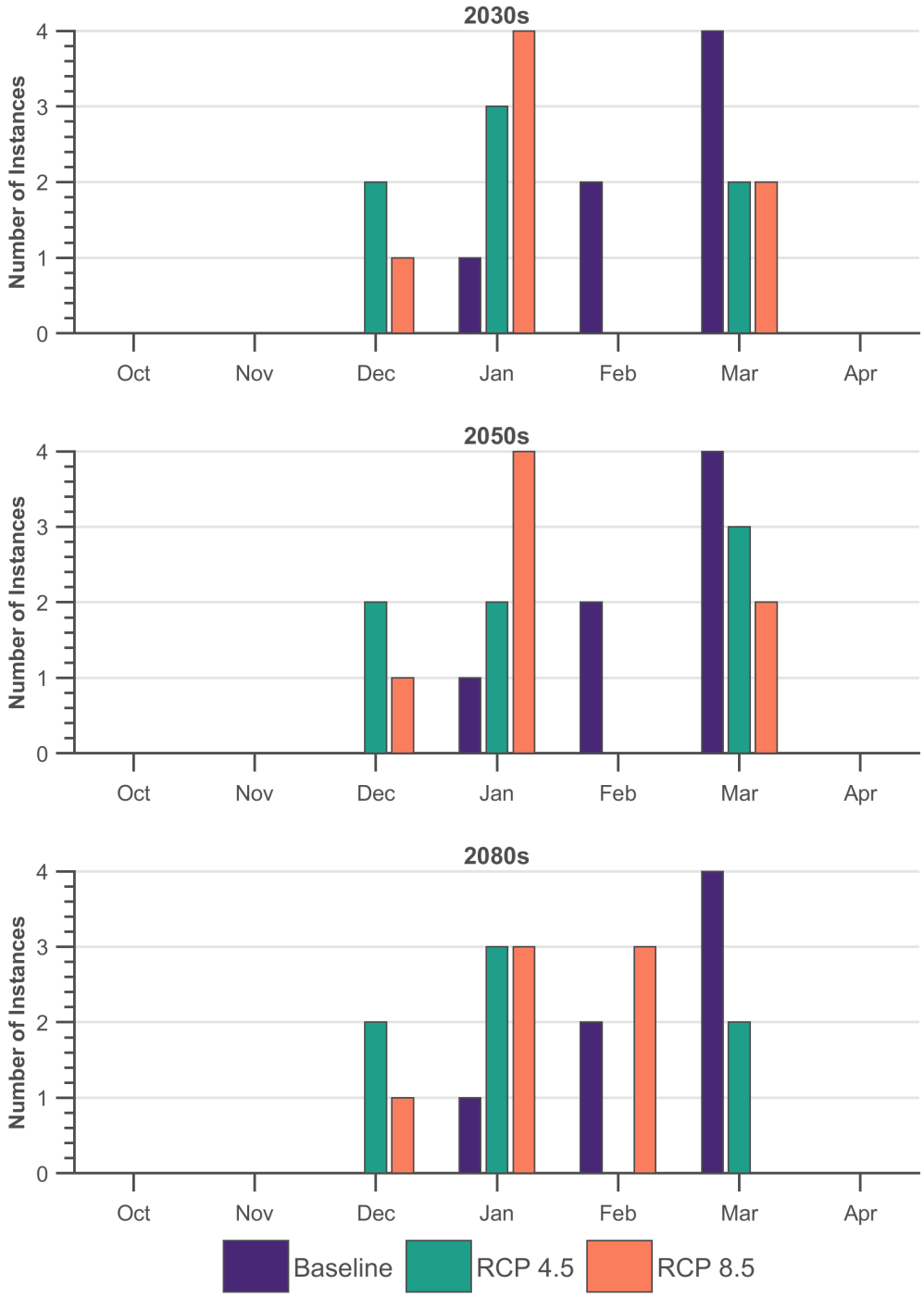


Figure F2.155: Timing of Month with Max. Snow Depth.

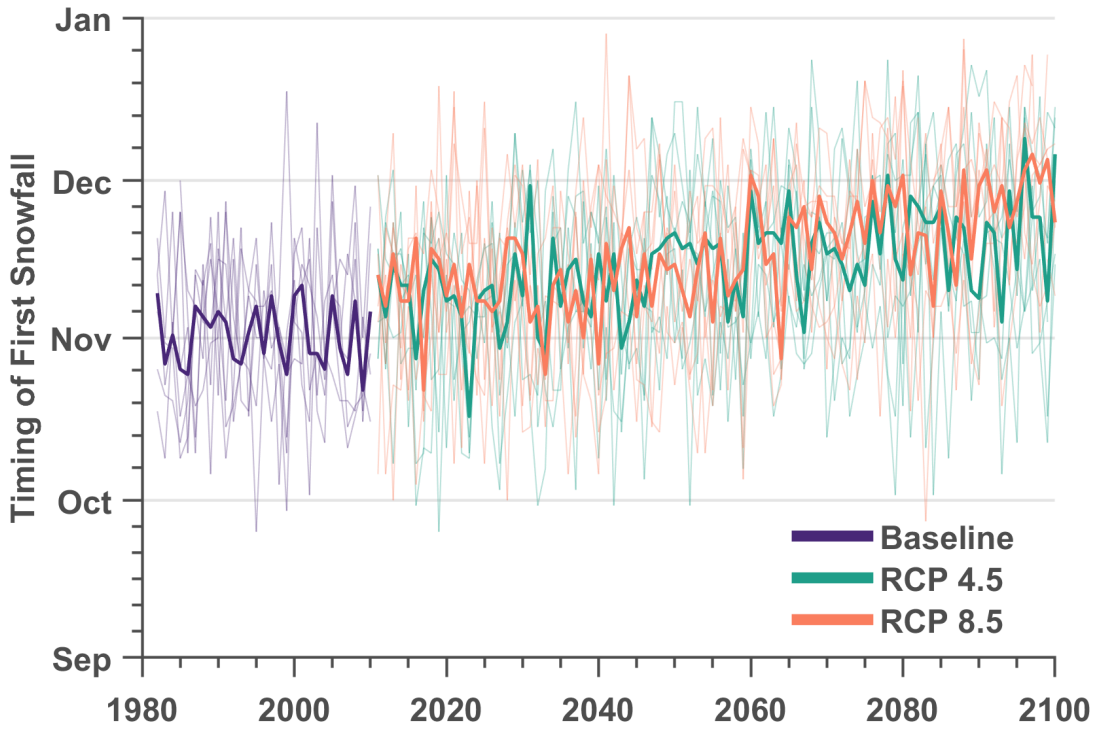


Figure F2.156: Timing of First Snowfall.

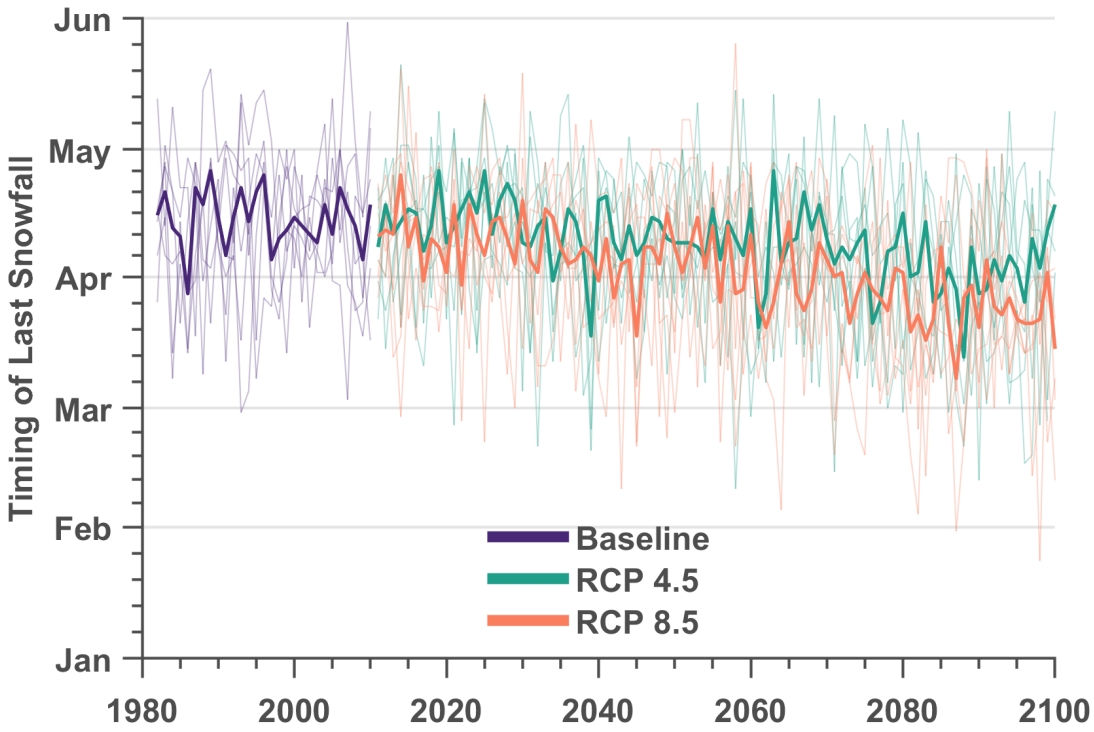


Figure F2.157: Timing of Last Snowfall.

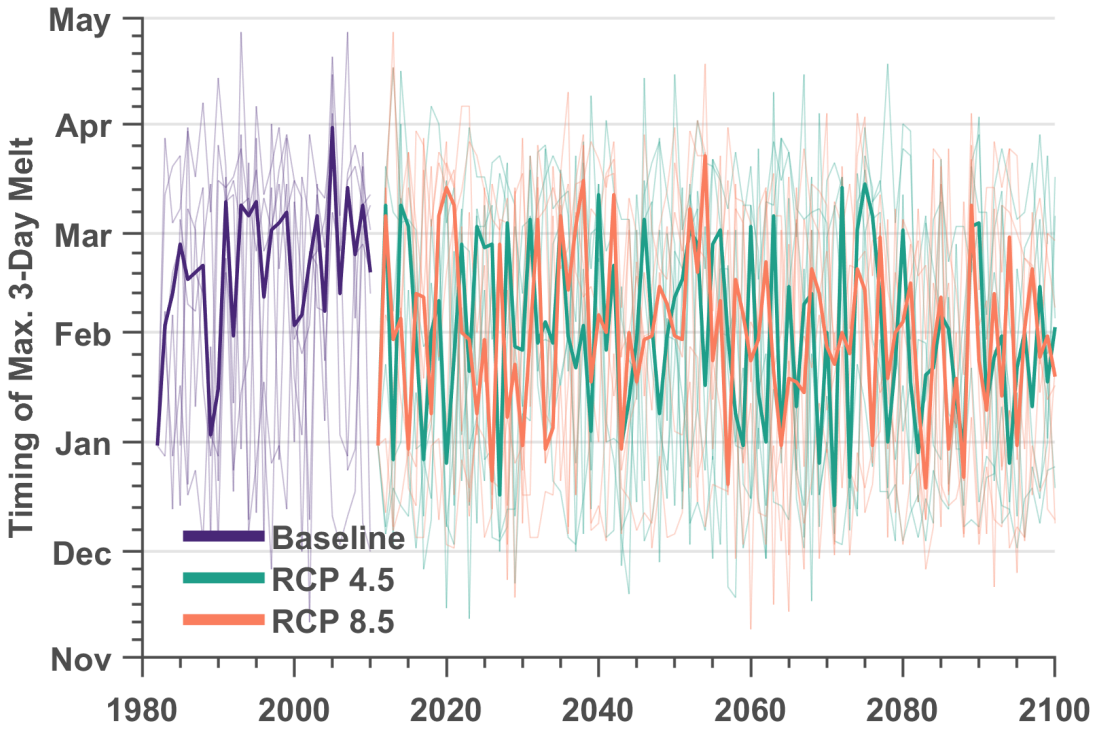


Figure F2.158: Timing of Max. 3-Day Melt.

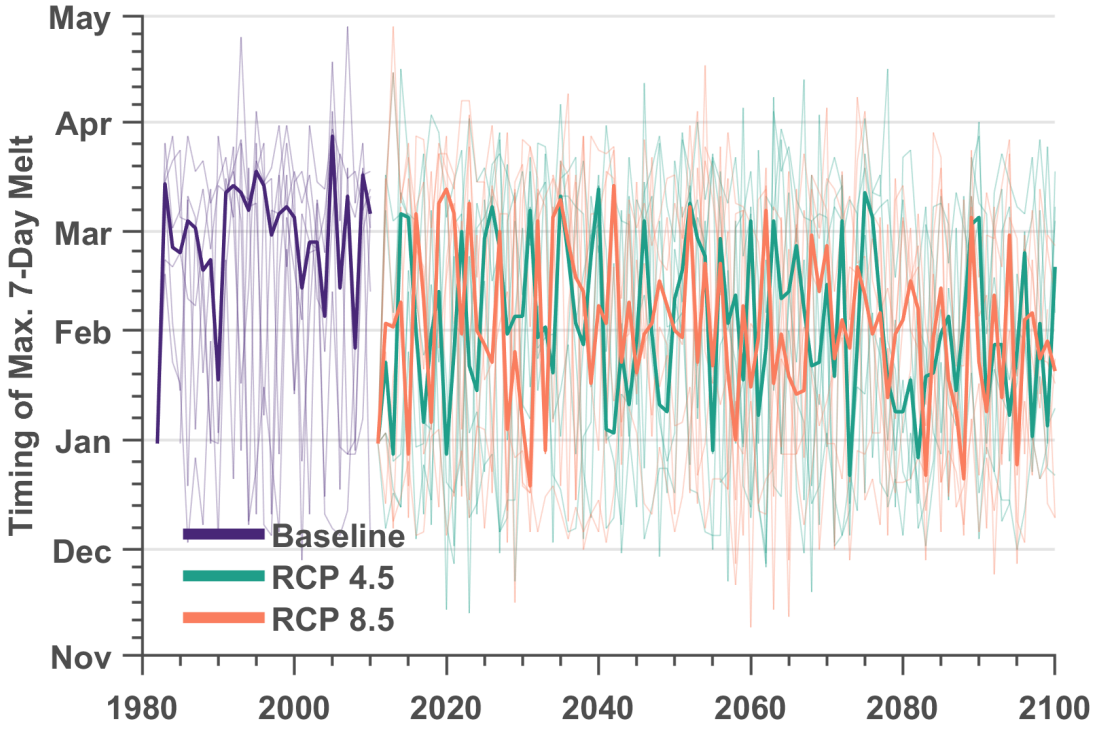


Figure F2.159: Timing of Max. 7-Day Melt.

F3 Wind

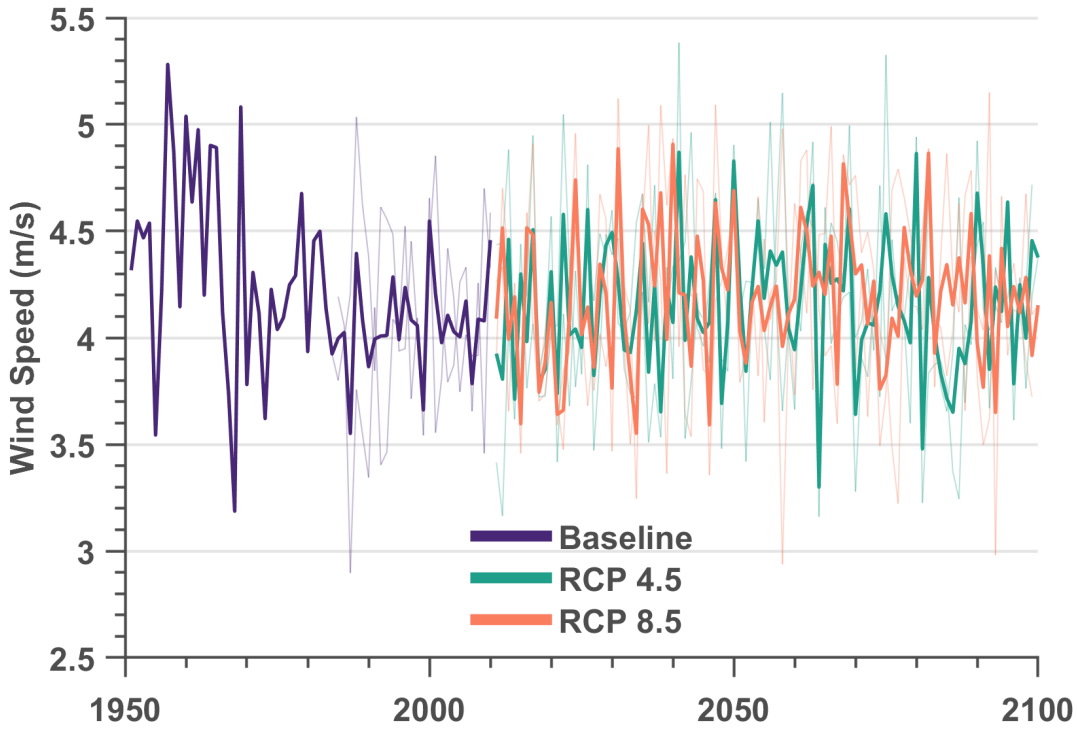


Figure F3.1: Monthly Average Wind Speed - January.

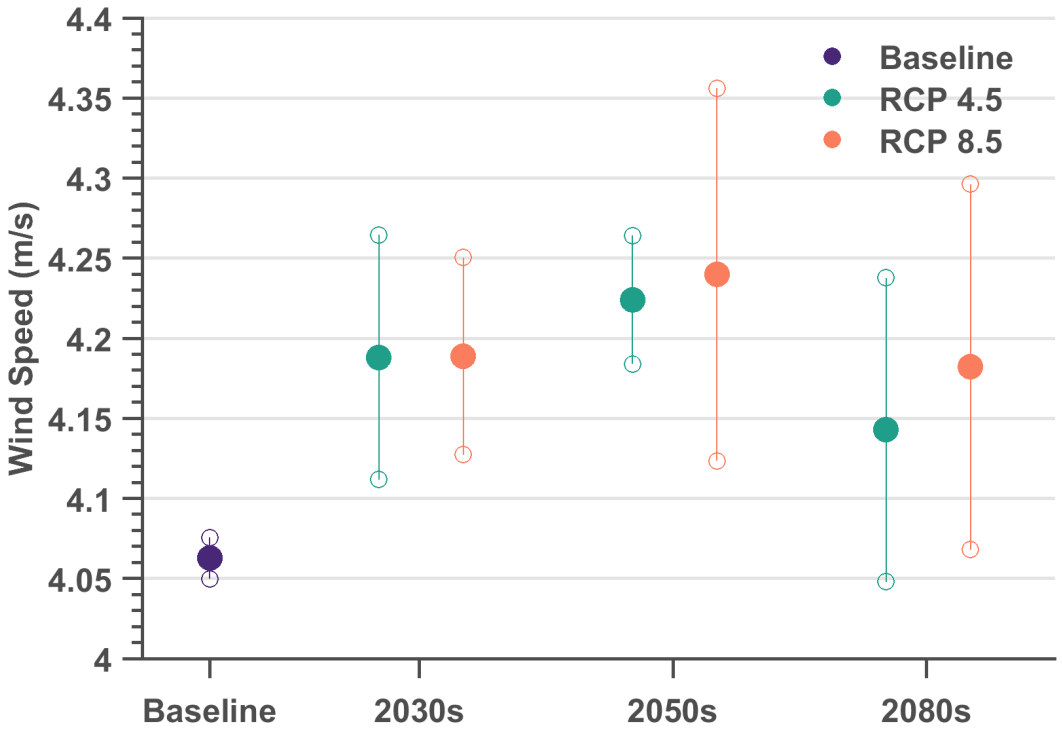


Figure F3.2: Monthly Average Wind Speed - January.

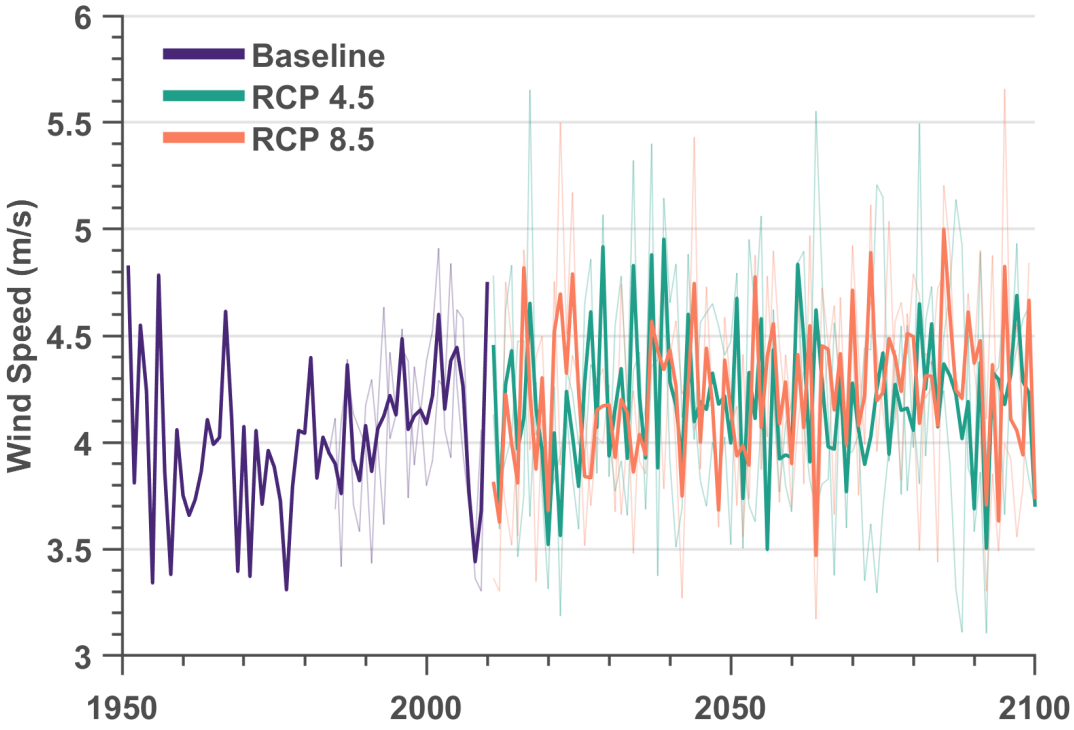


Figure F3.3: Monthly Average Wind Speed - February.

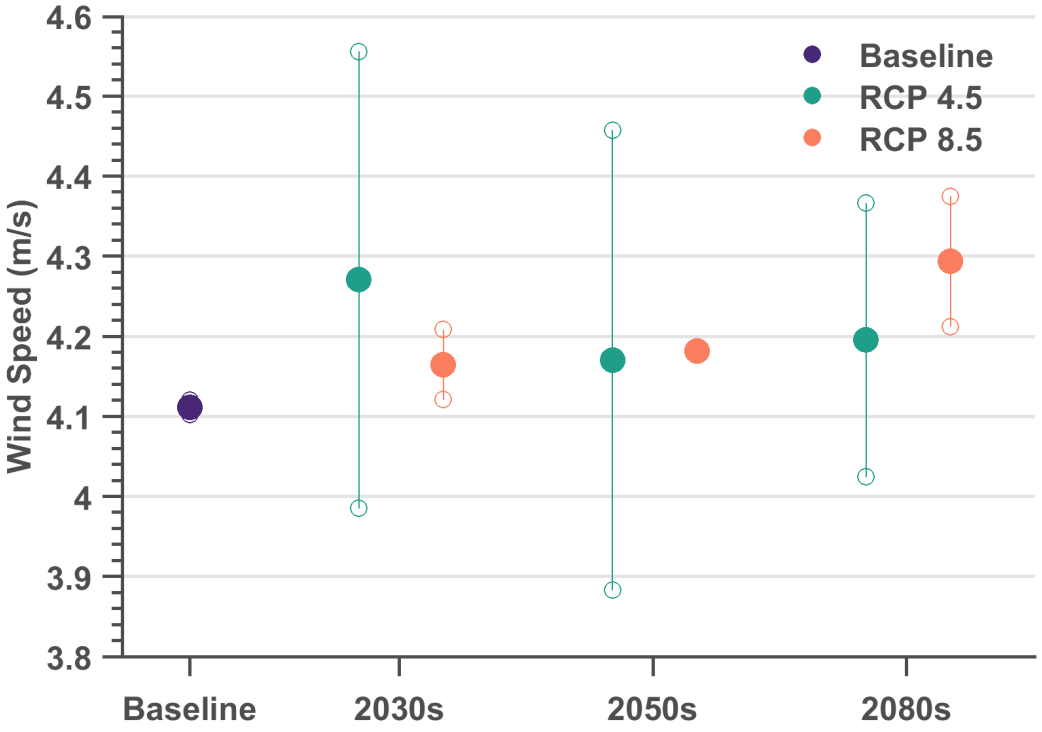


Figure F3.4: Monthly Average Wind Speed - February.

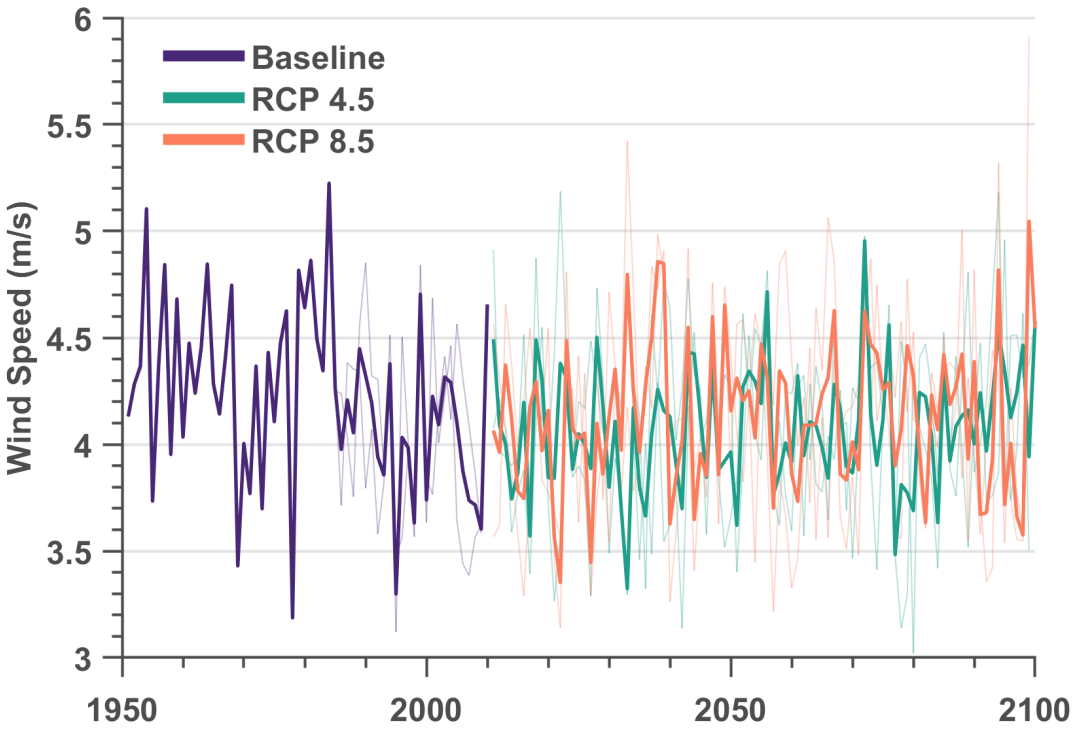


Figure F3.5: Monthly Average Wind Speed - March.

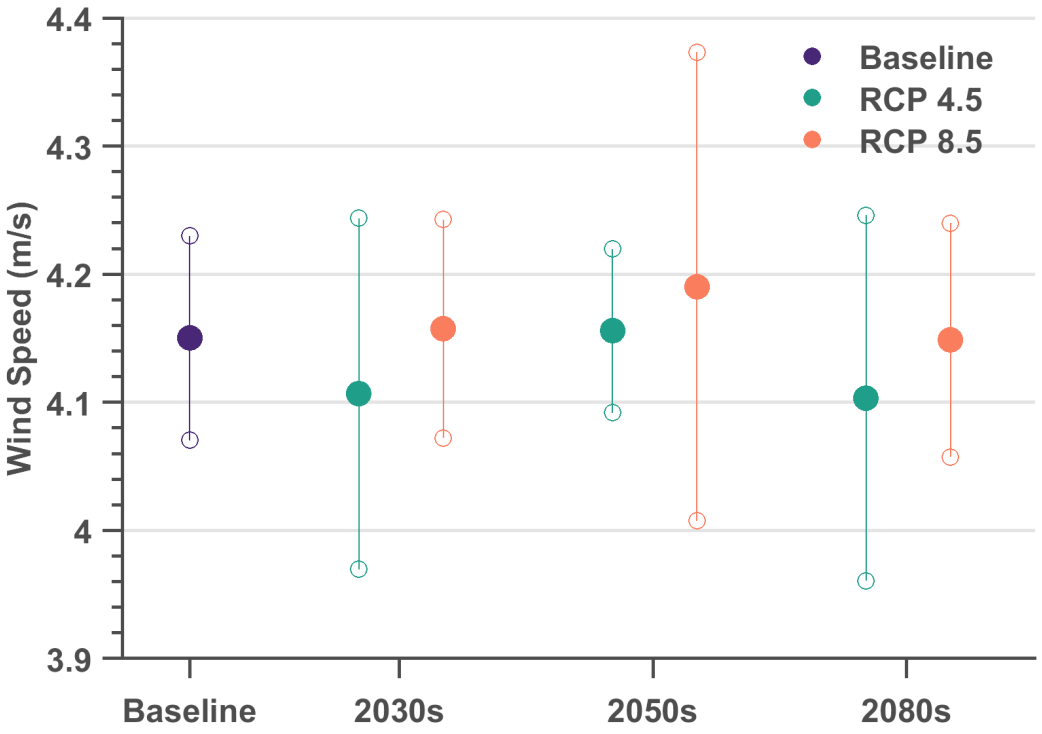


Figure F3.6: Monthly Average Wind Speed - March.

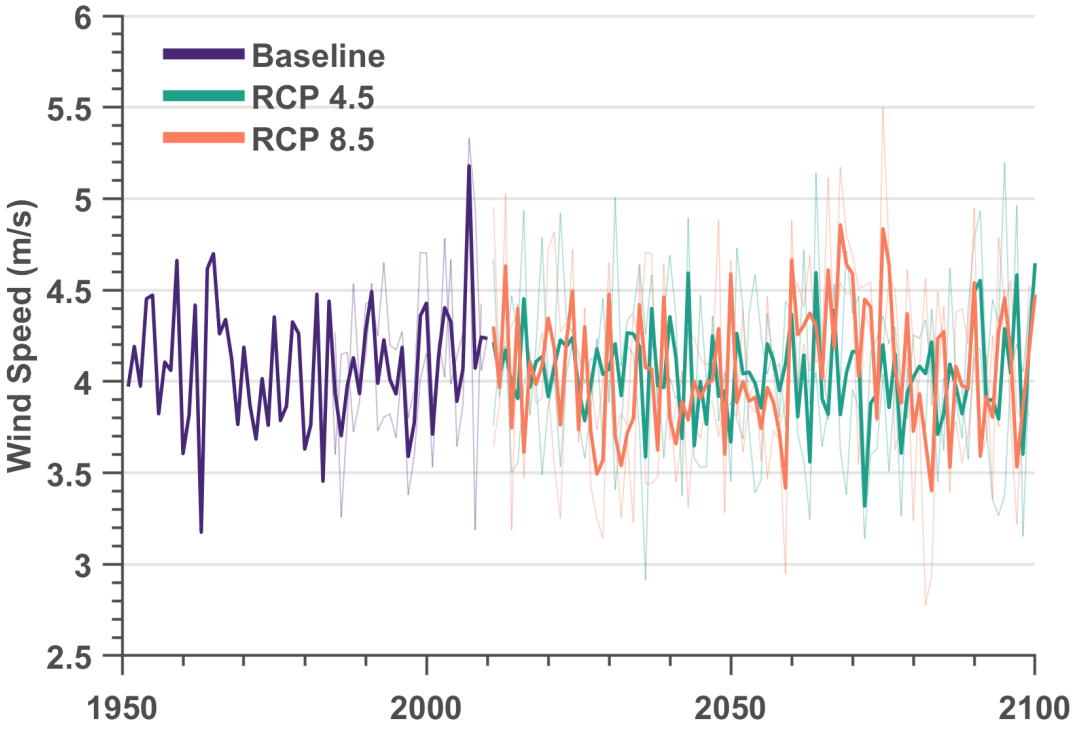


Figure F3.7: Monthly Average Wind Speed - April.

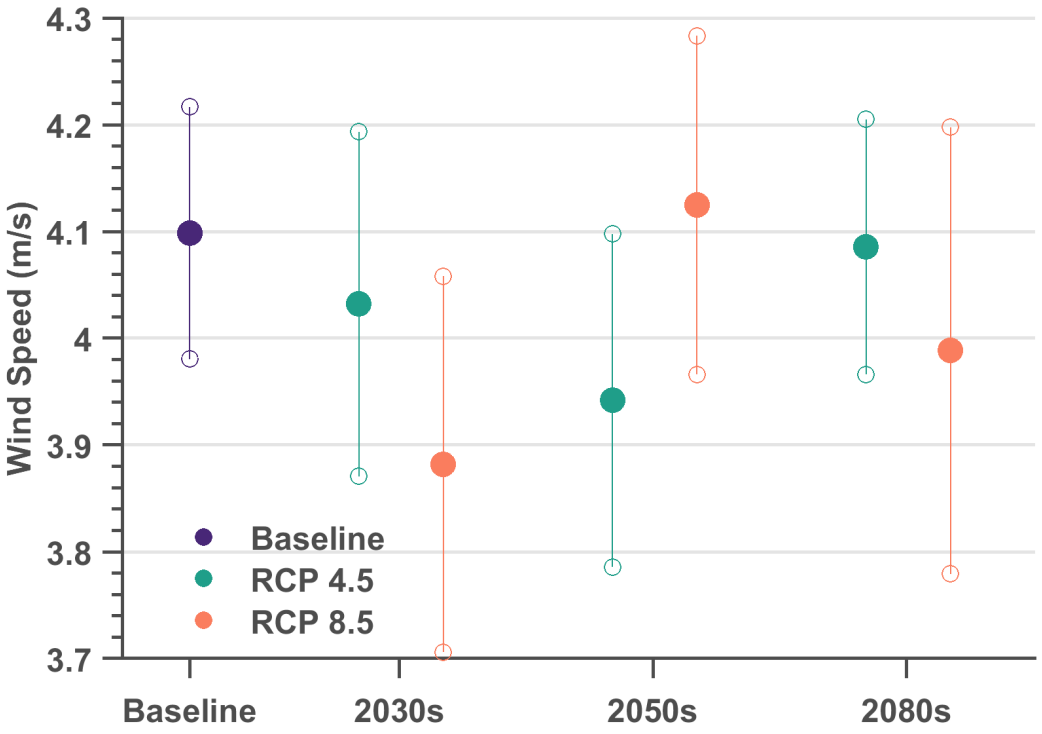


Figure F3.8: Monthly Average Wind Speed - April.

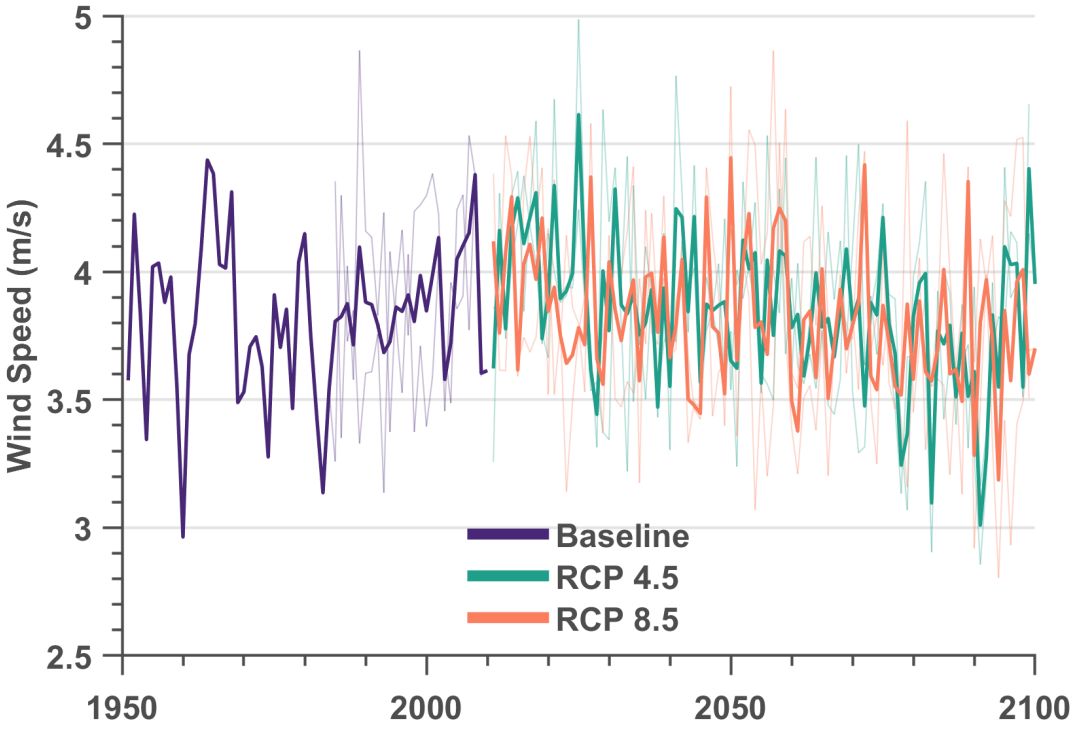


Figure F3.9: Monthly Average Wind Speed - May.

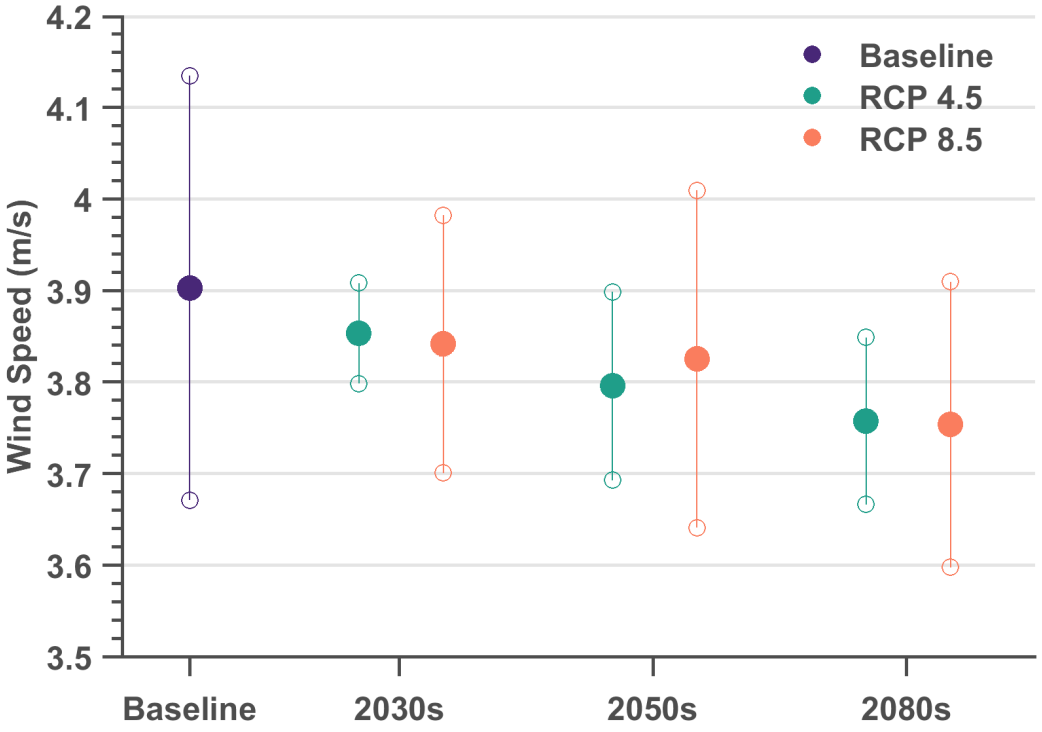


Figure F3.10: Monthly Average Wind Speed - May.

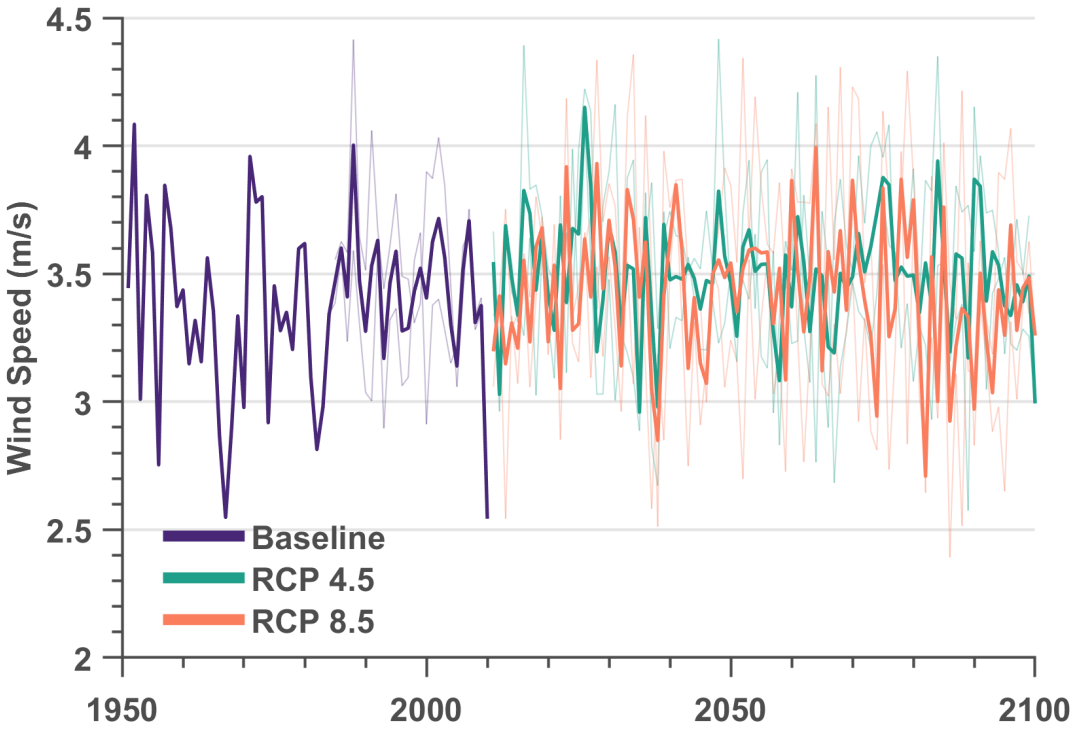


Figure F3.11: Monthly Average Wind Speed - June.

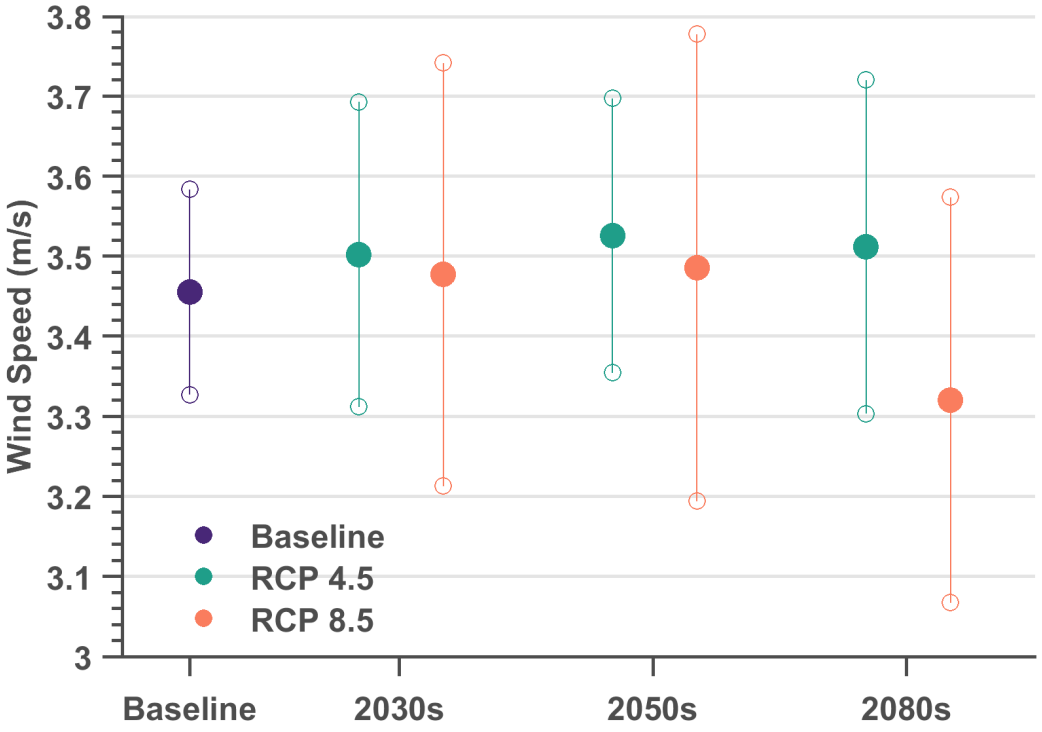


Figure F3.12: Monthly Average Wind Speed - June.

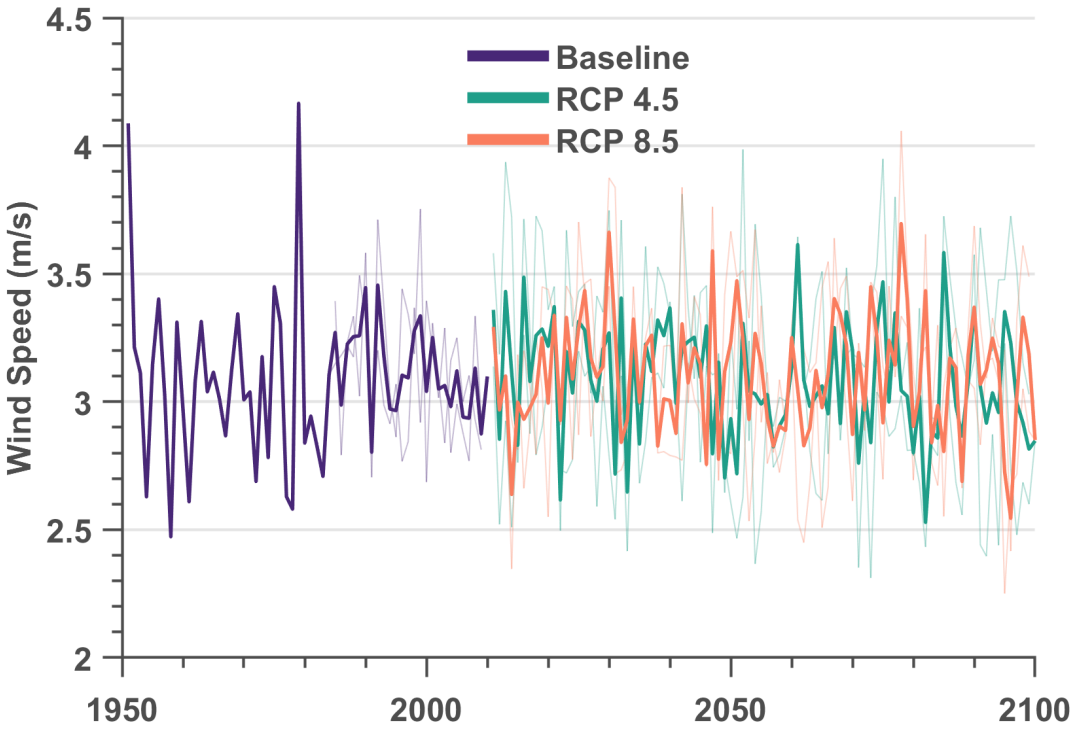


Figure F3.13: Monthly Average Wind Speed - July.

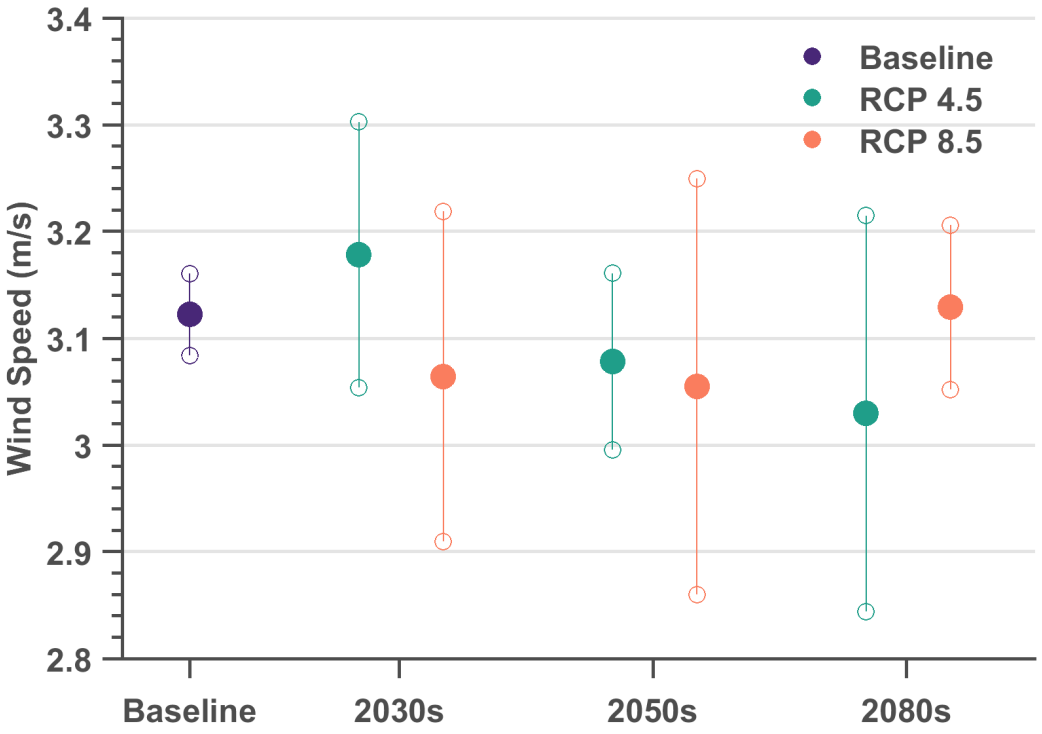


Figure F3.14: Monthly Average Wind Speed - July.

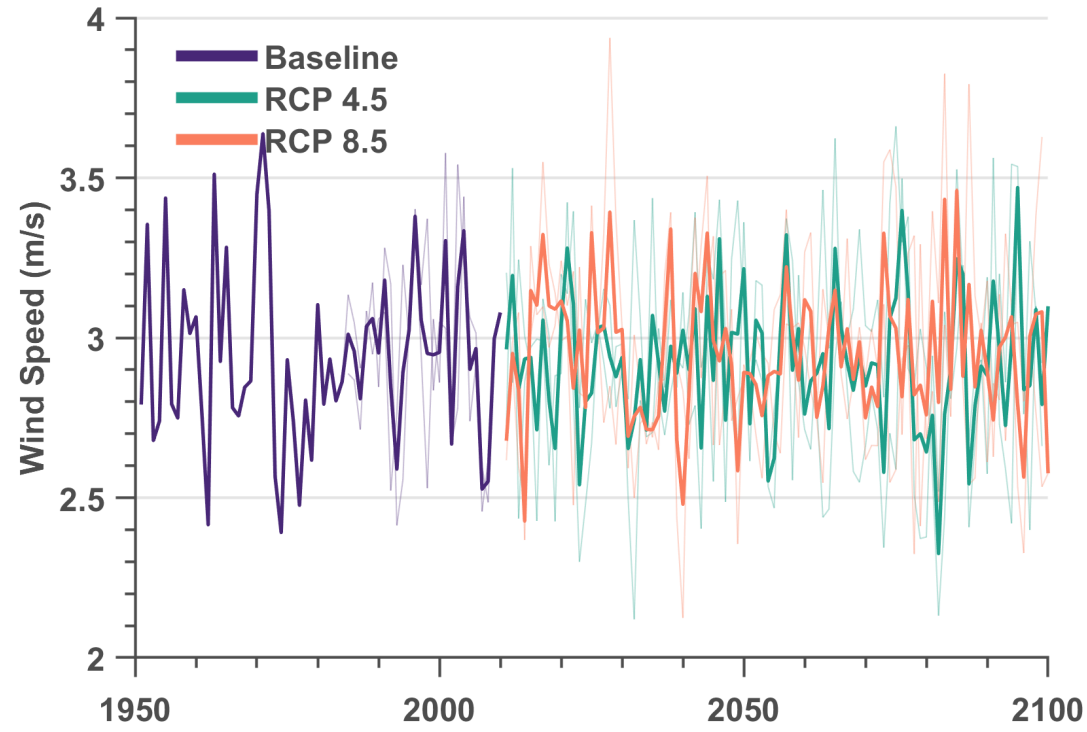


Figure F3.15: Monthly Average Wind Speed - August.

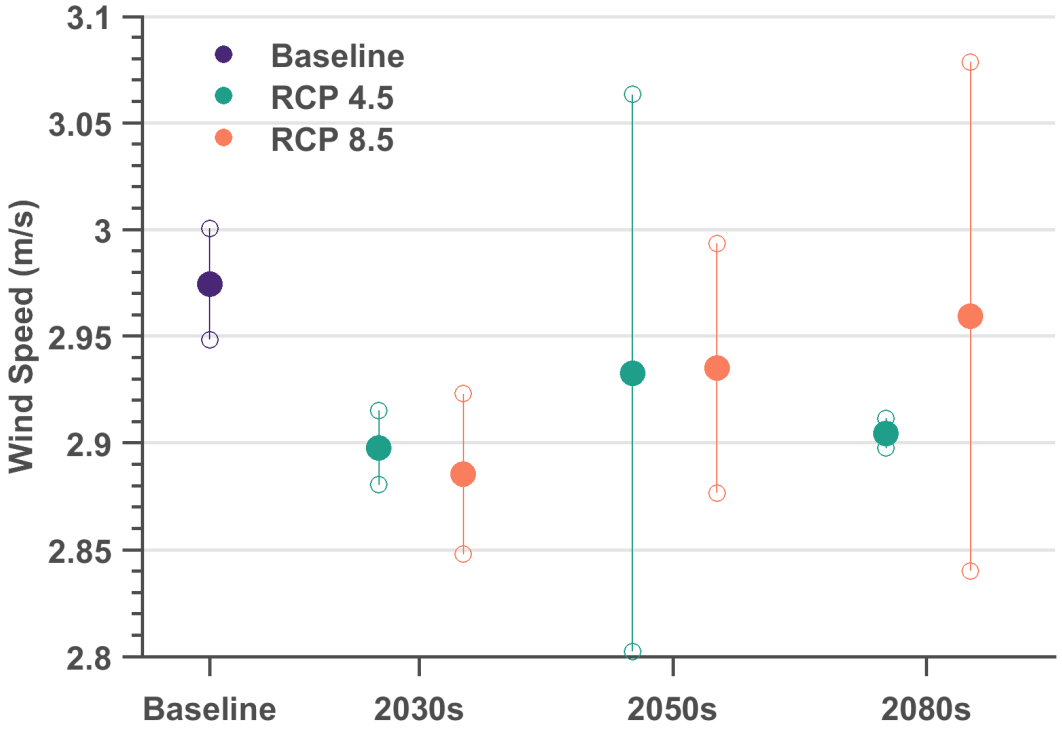


Figure F3.16: Monthly Average Wind Speed - August.

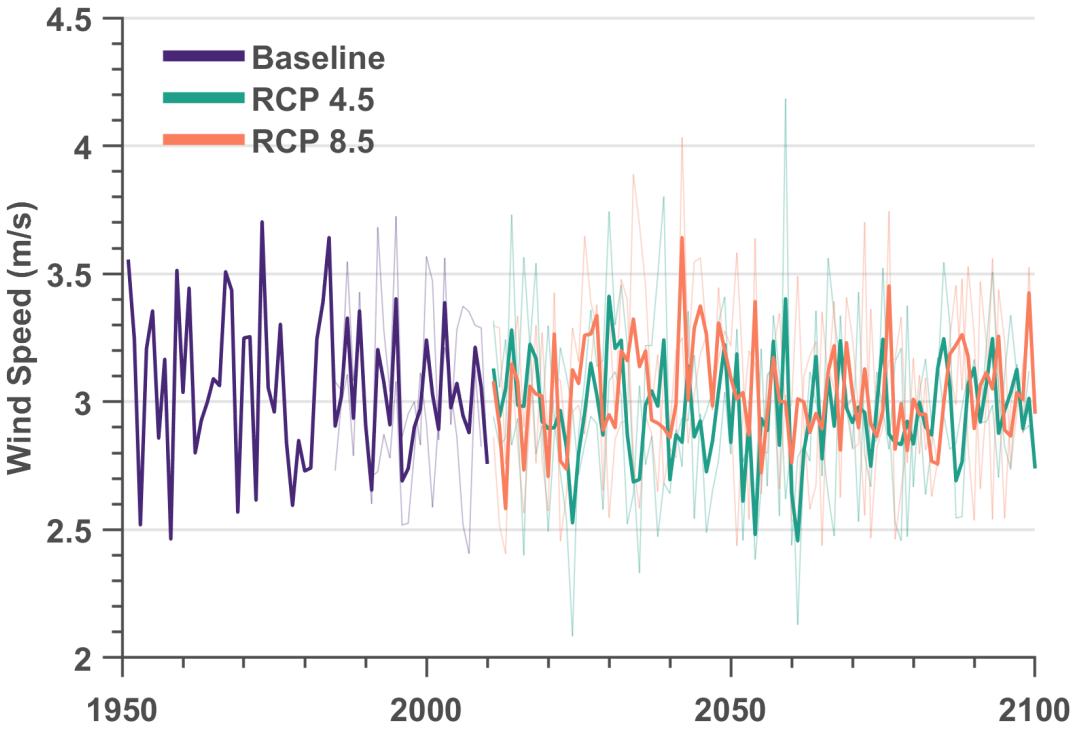


Figure F3.17: Monthly Average Wind Speed - September.

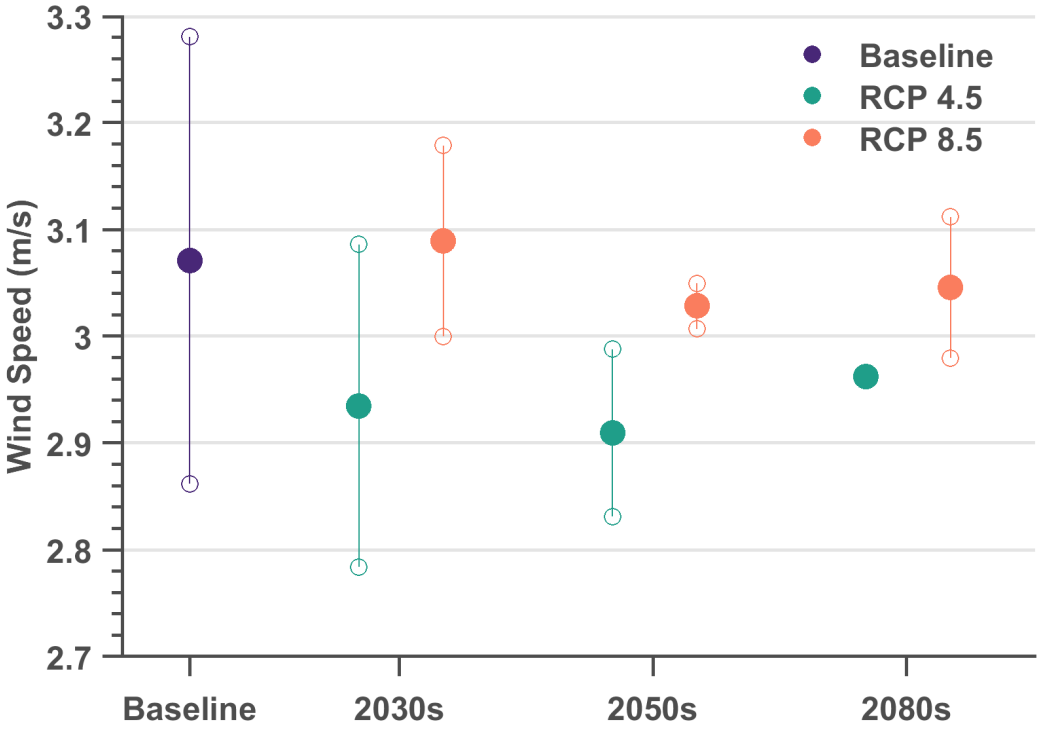


Figure F3.18: Monthly Average Wind Speed - September.

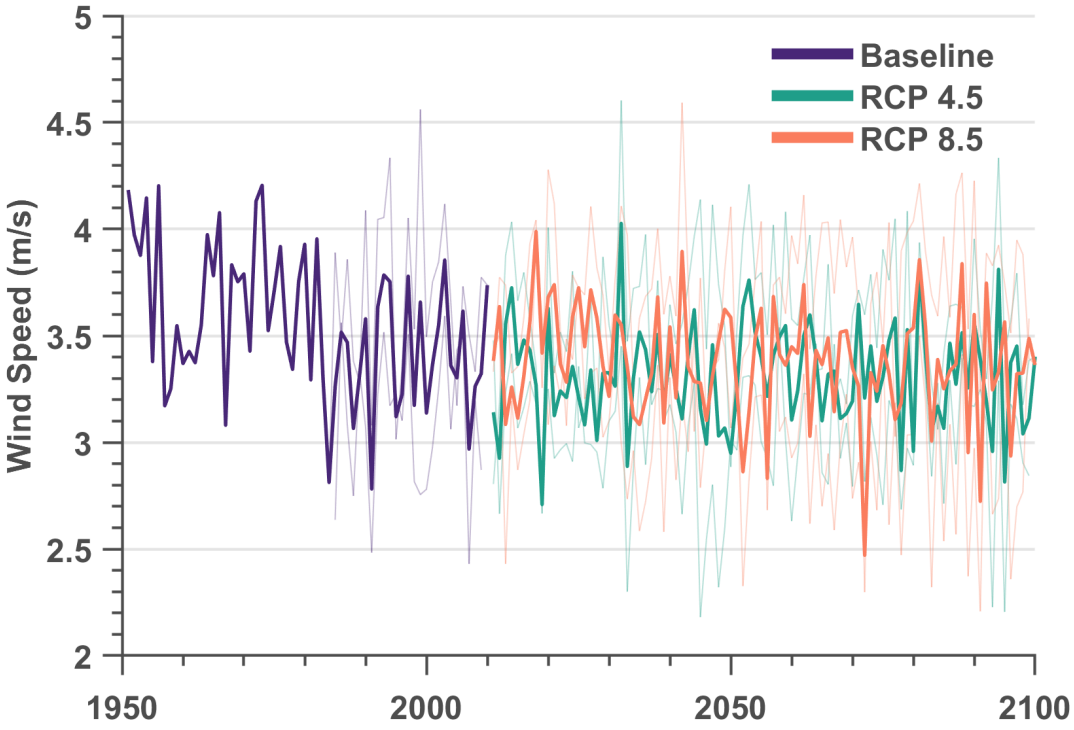


Figure F3.19: Monthly Average Wind Speed - October.

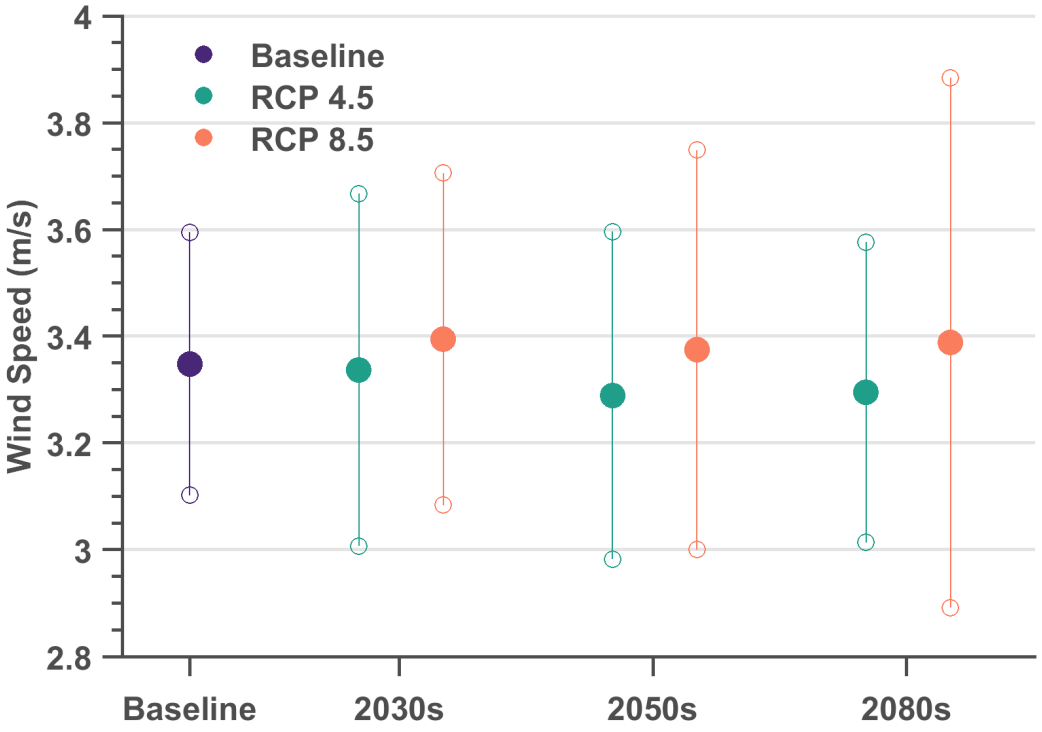


Figure F3.20: Monthly Average Wind Speed - October.

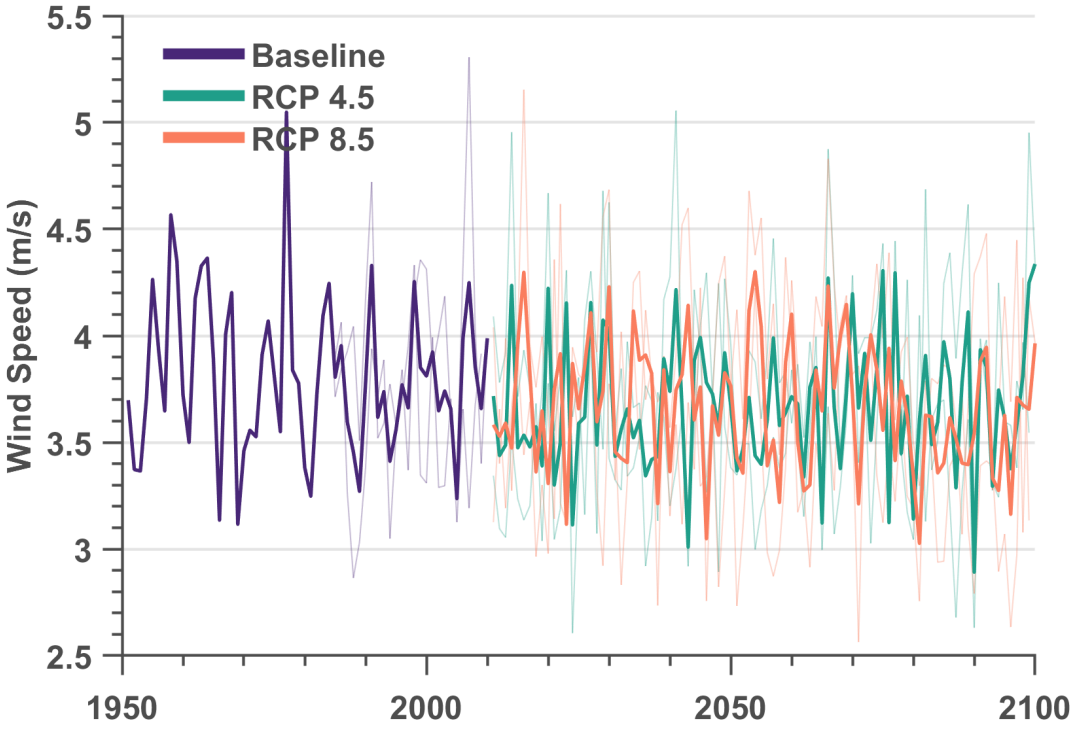


Figure F3.21: Monthly Average Wind Speed - November.

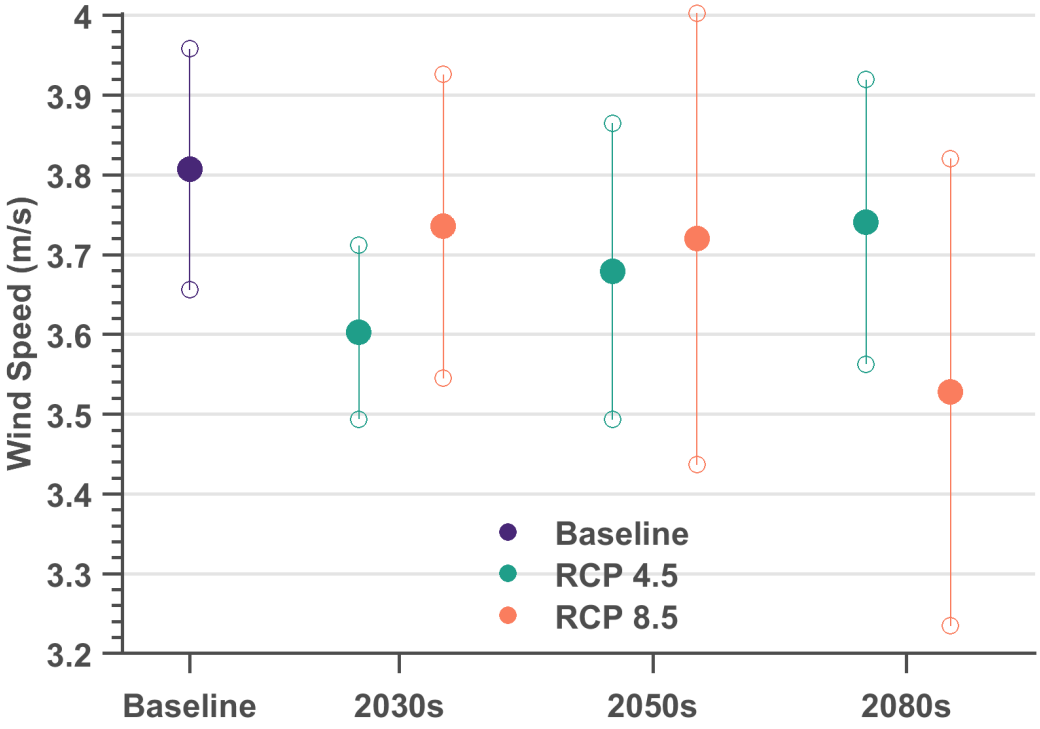


Figure F3.22: Monthly Average Wind Speed - November.

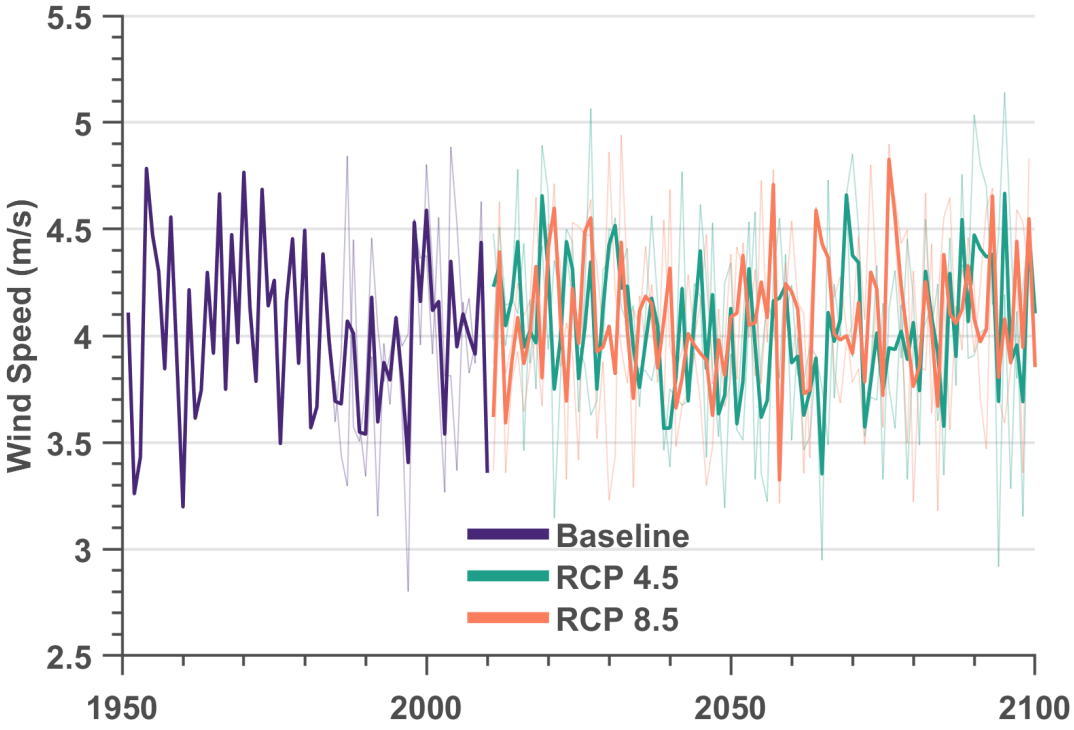


Figure F3.23: Monthly Average Wind Speed - December.

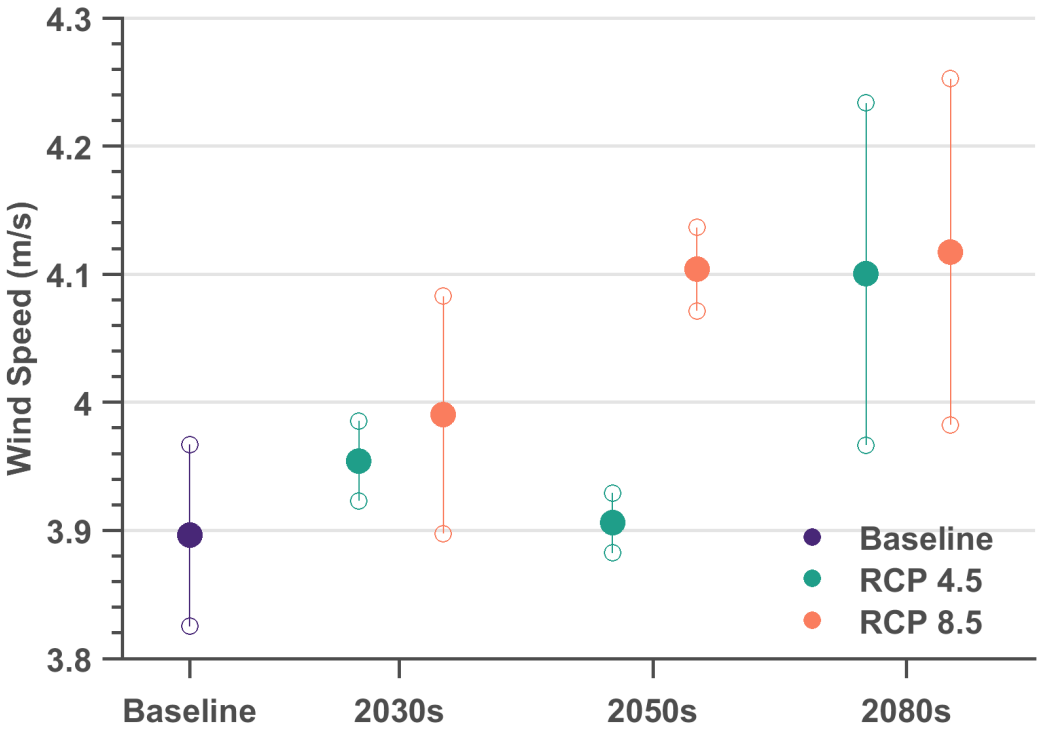


Figure F3.24: Monthly Average Wind Speed - December.

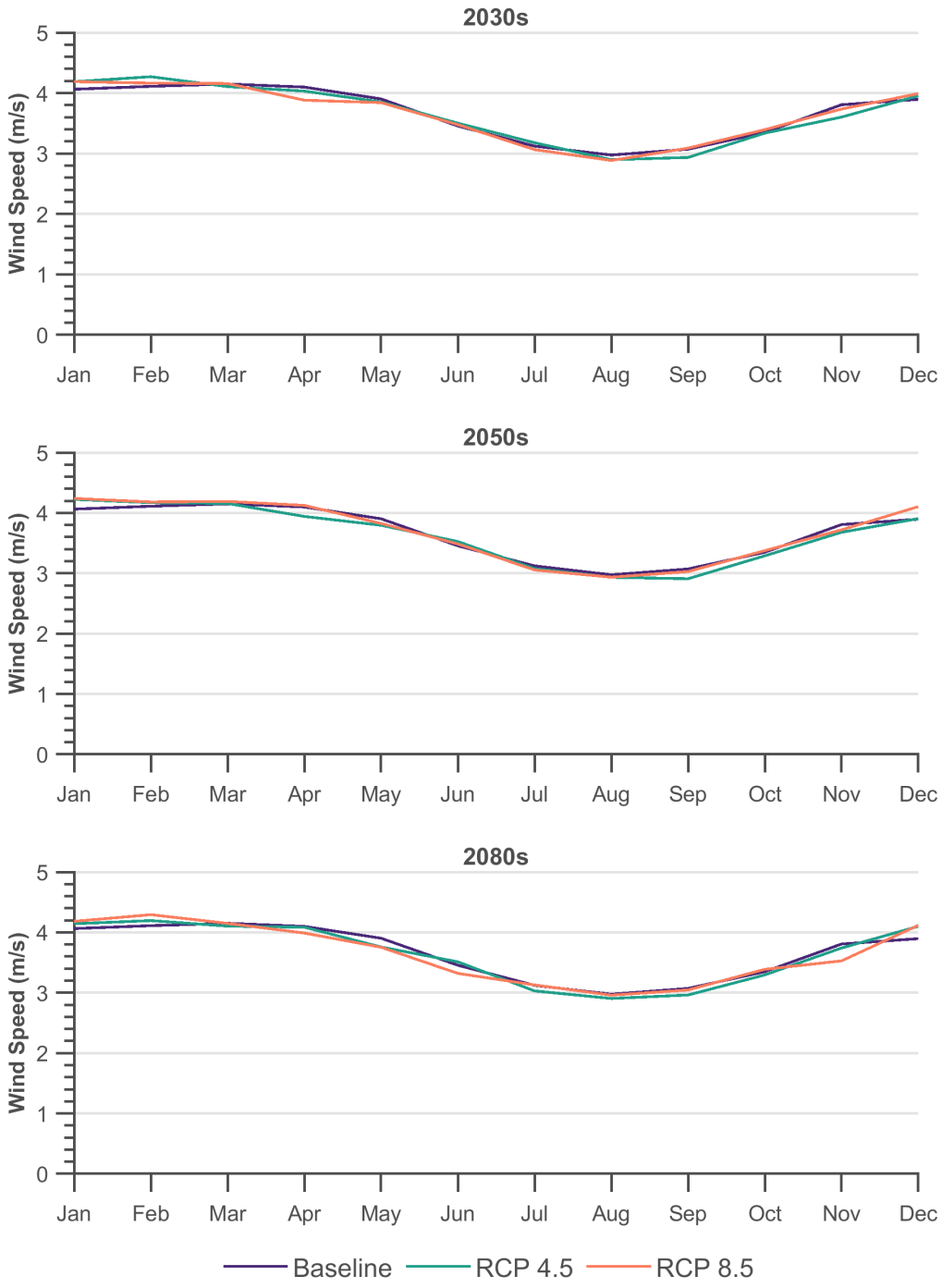


Figure F3.25: Monthly Average Wind Speed.

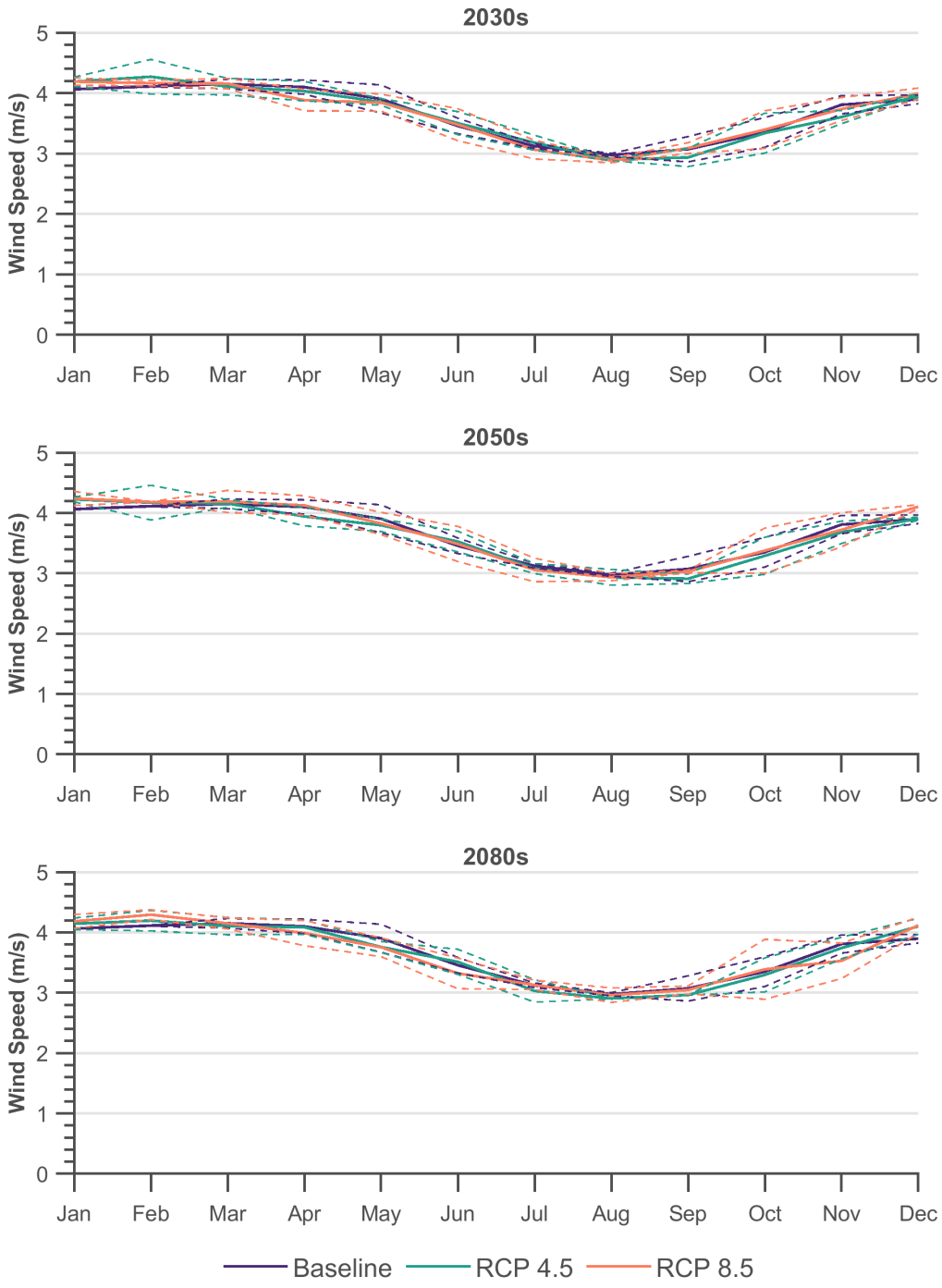


Figure F3.26: Monthly Average Wind Speed. Dashed lines indicate the 10% and 90% percentile.

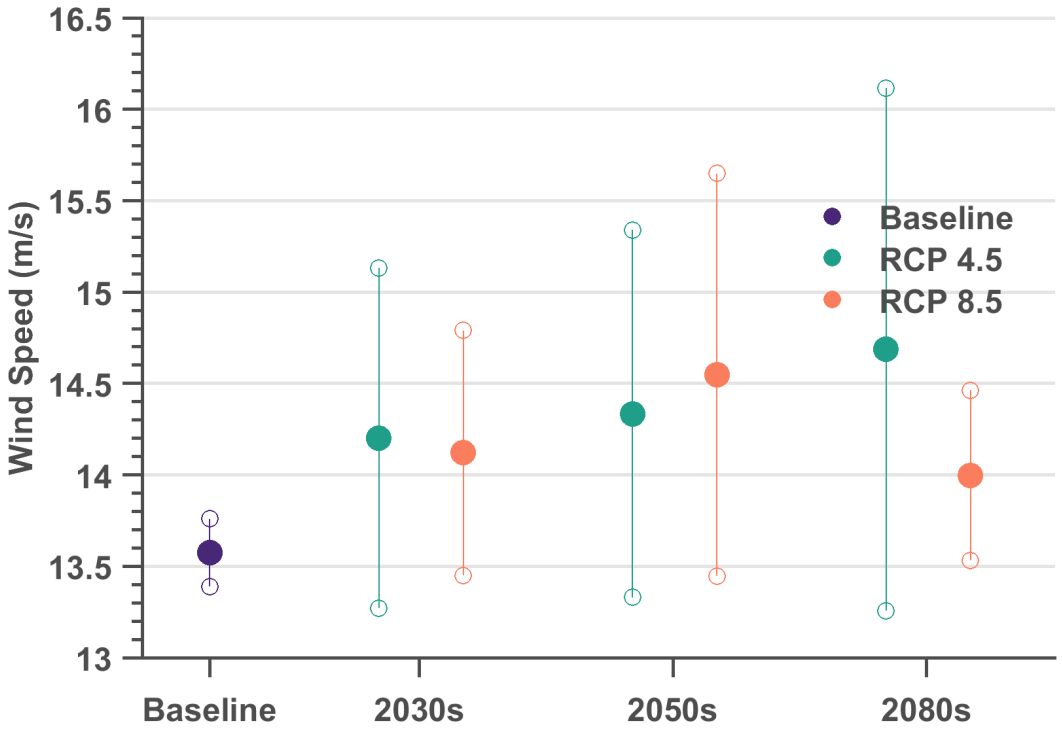


Figure F3.27: 1 in 2 Years 3-Hourly Wind Speed.

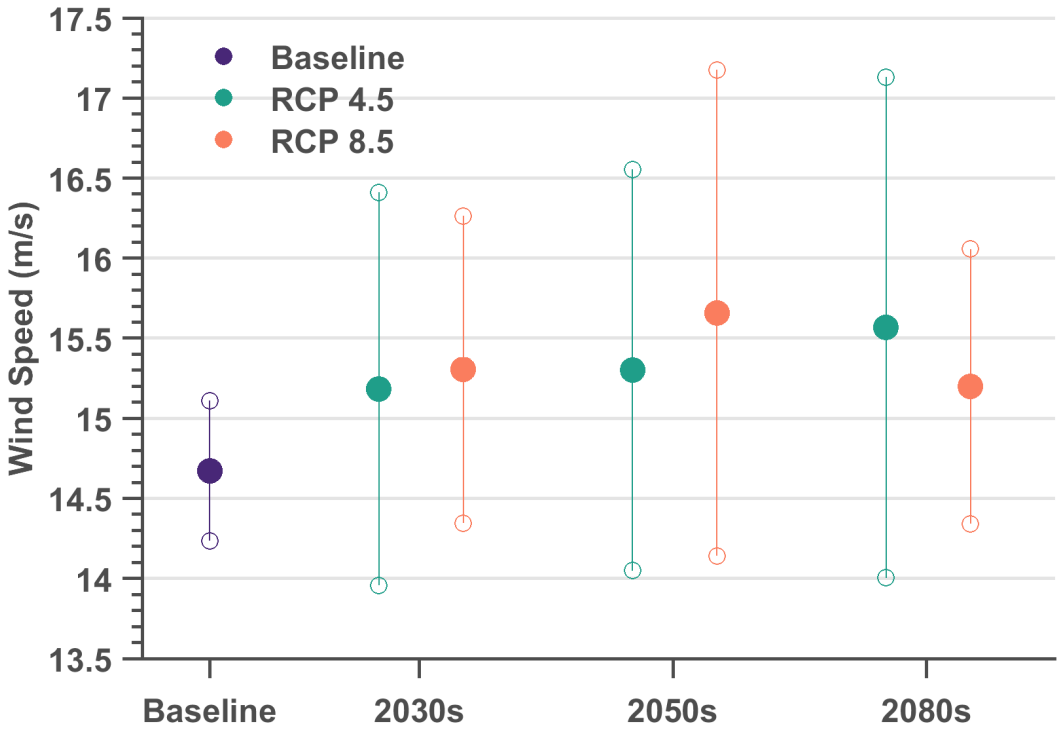


Figure F3.28: 1 in 5 Years 3-Hourly Wind Speed.

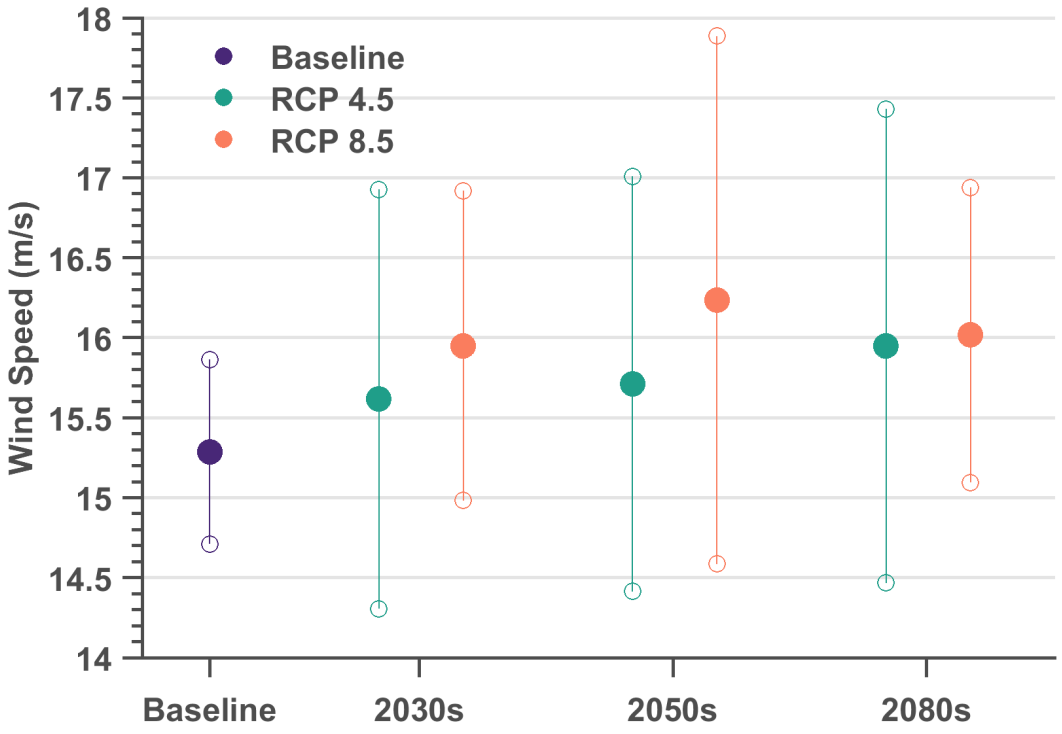


Figure F3.29: 1 in 10 Years 3-Hourly Wind Speed.

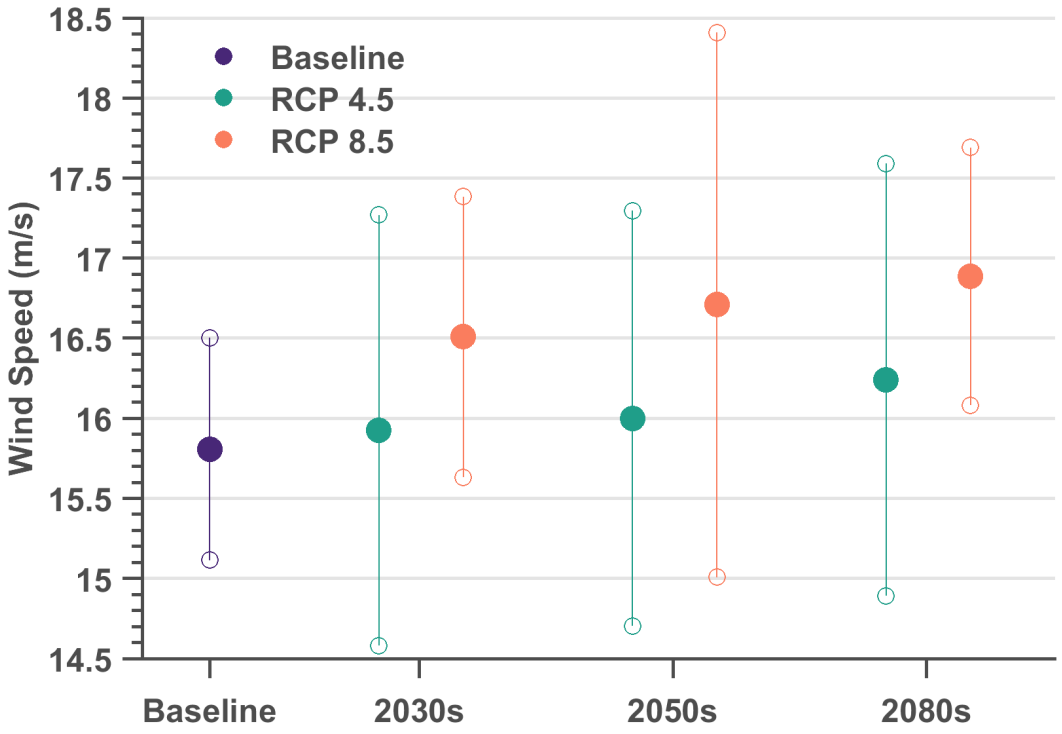


Figure F3.30: 1 in 20 Years 3-Hourly Wind Speed.

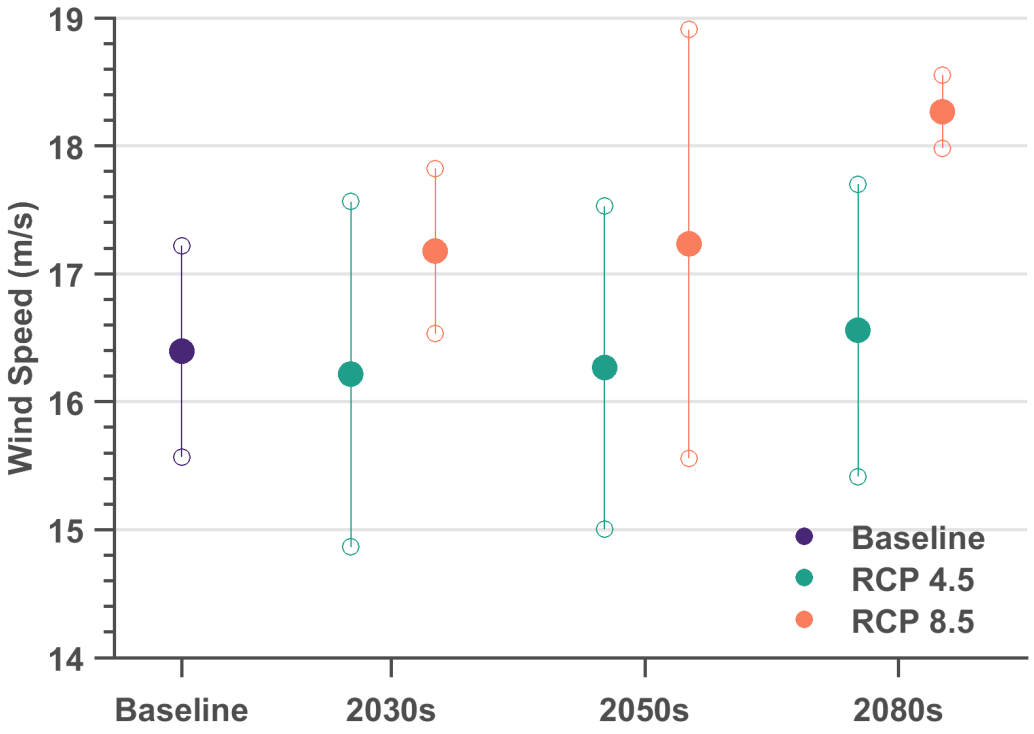


Figure F3.31: 1 in 50 Years 3-Hourly Wind Speed.

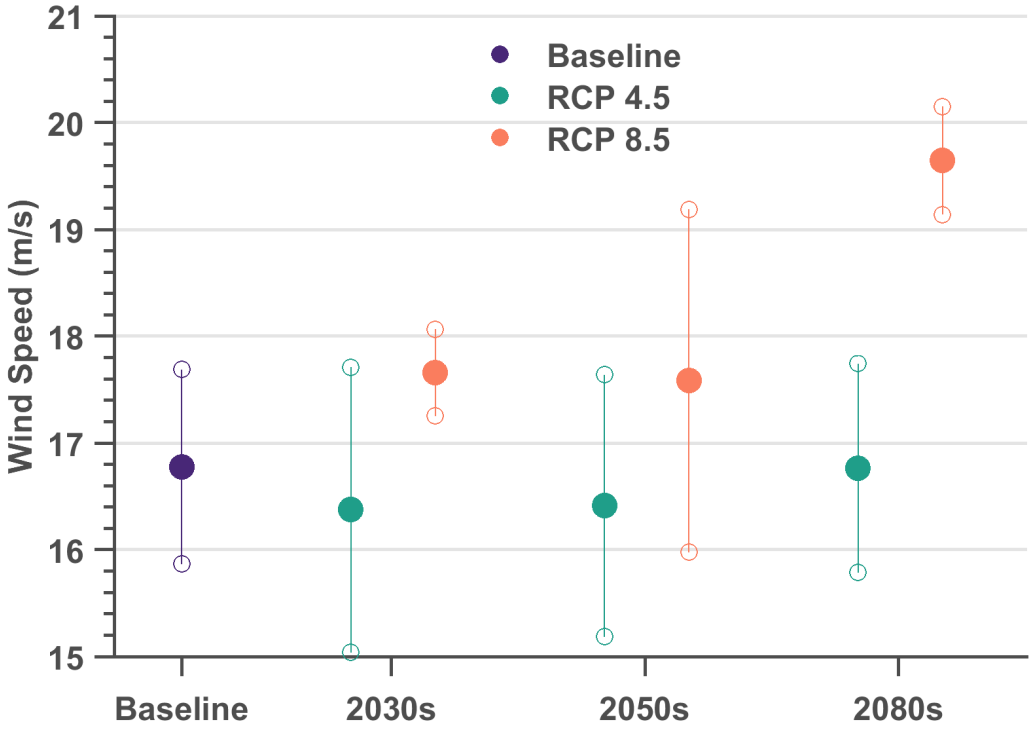


Figure F3.32: 1 in 100 Years 3-Hourly Wind Speed.

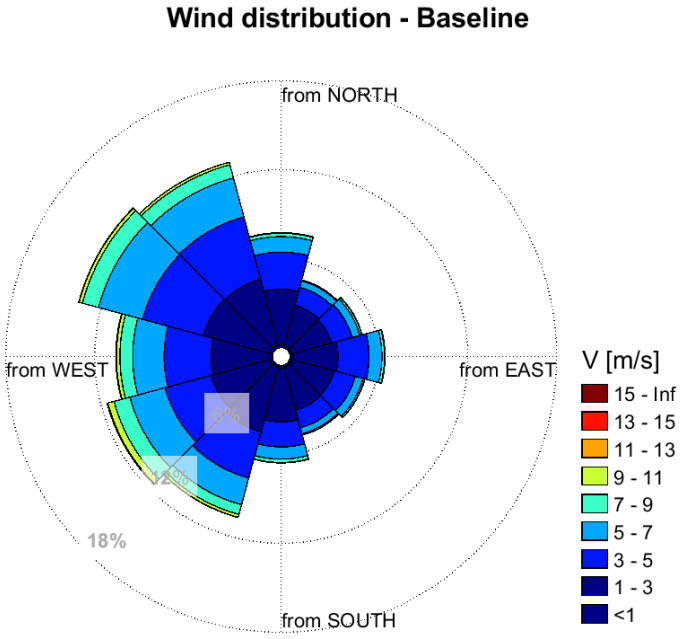


Figure F3.33: Wind Distribution - Baseline. The direction indicates where the wind comes from.

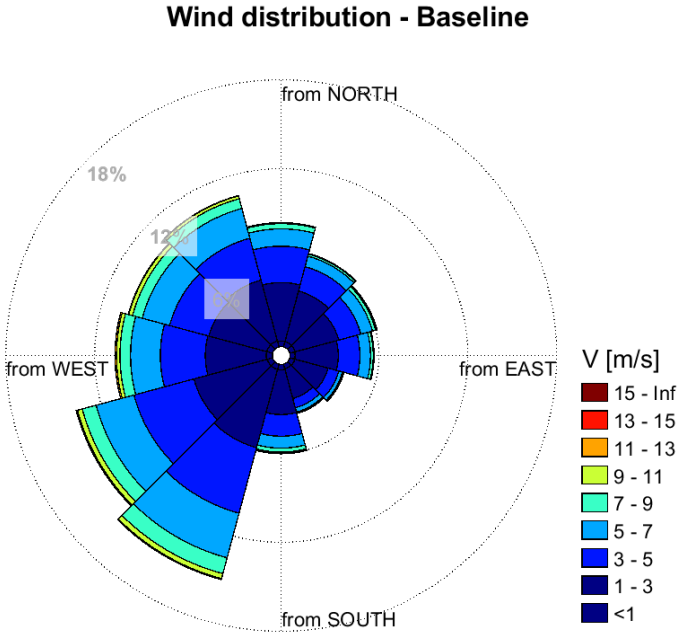


Figure F3.34: Wind Distribution - Baseline. The direction indicates where the wind comes from.

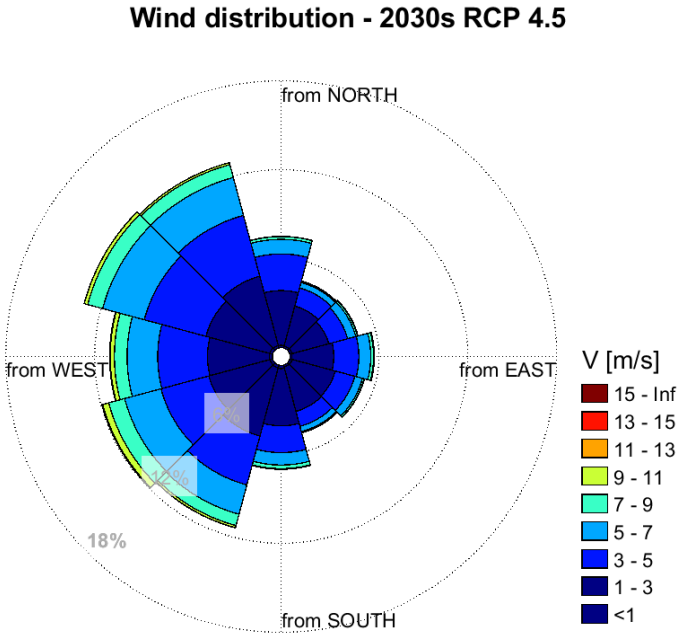


Figure F3.35: Wind Distribution - 2030s RCP 4.5. The direction indicates where the wind comes from.

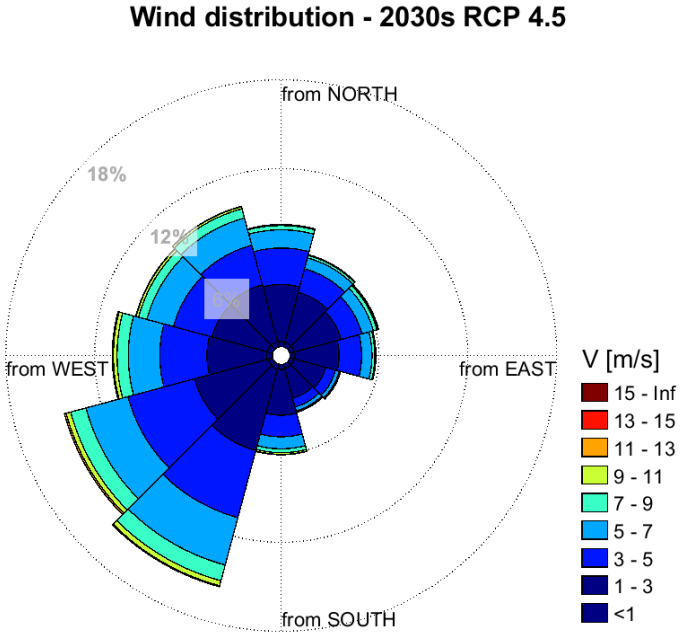


Figure F3.36: Wind Distribution - 2030s RCP 4.5. The direction indicates where the wind comes from.

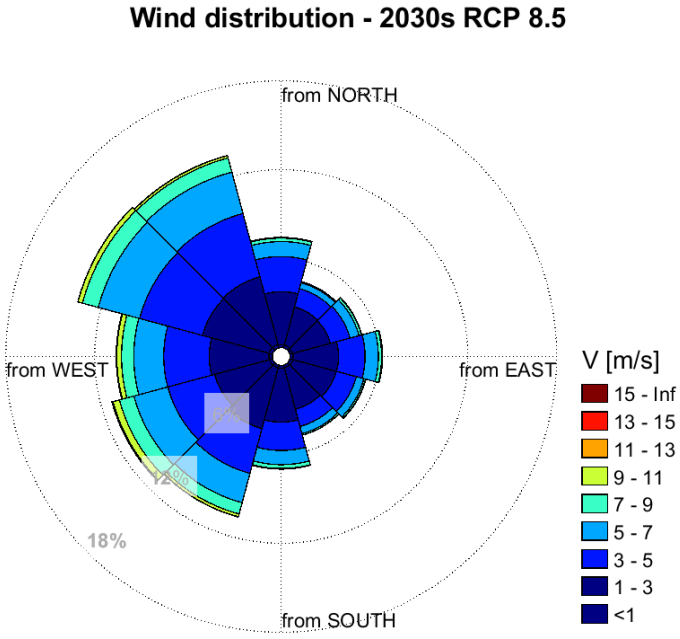


Figure F3.37: Wind Distribution - 2030s RCP 8.5. The direction indicates where the wind comes from.

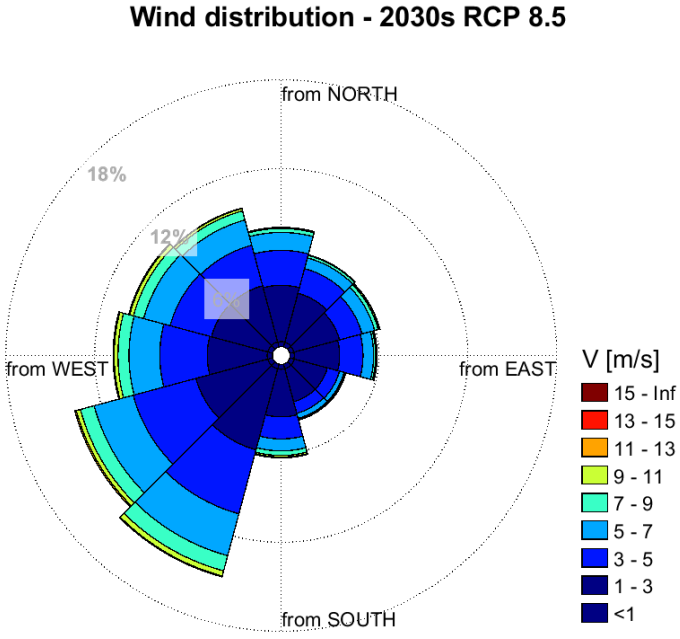


Figure F3.38: Wind Distribution - 2030s RCP 8.5. The direction indicates where the wind comes from.

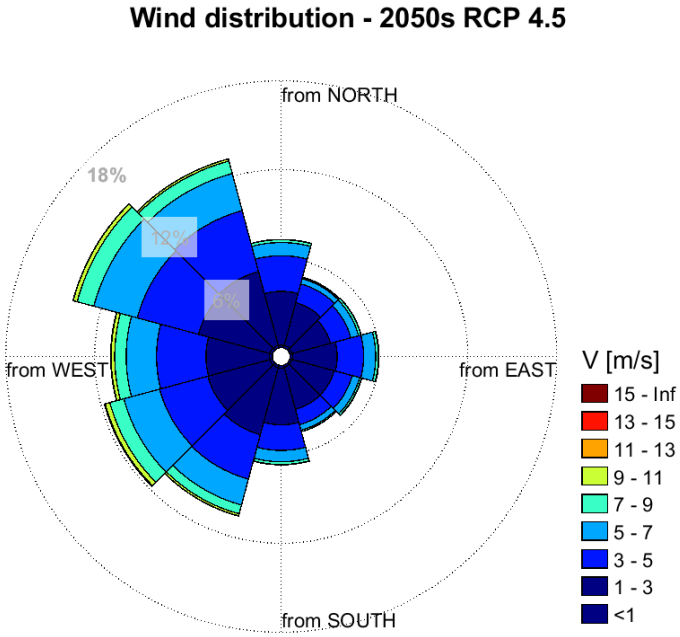


Figure F3.39: Wind Distribution - 2050s RCP 4.5. The direction indicates where the wind comes from.

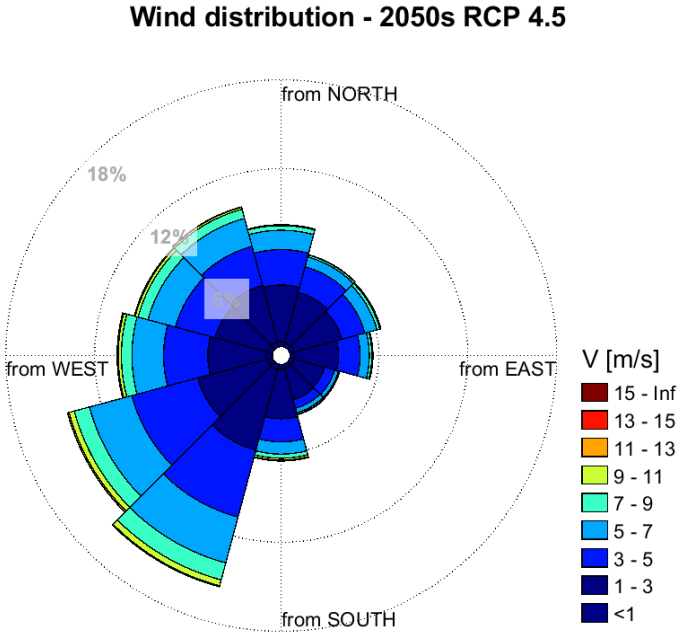


Figure F3.40: Wind Distribution - 2050s RCP 4.5. The direction indicates where the wind comes from.

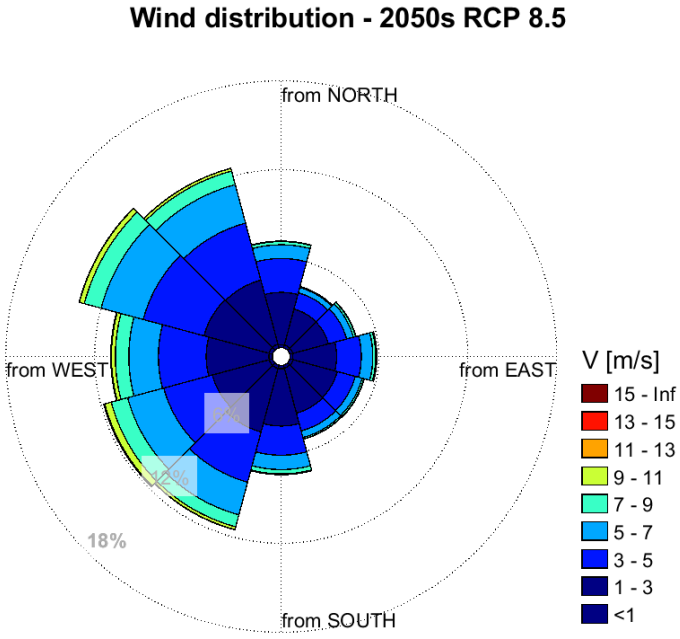


Figure F3.41: Wind Distribution - 2050s RCP 8.5. The direction indicates where the wind comes from.

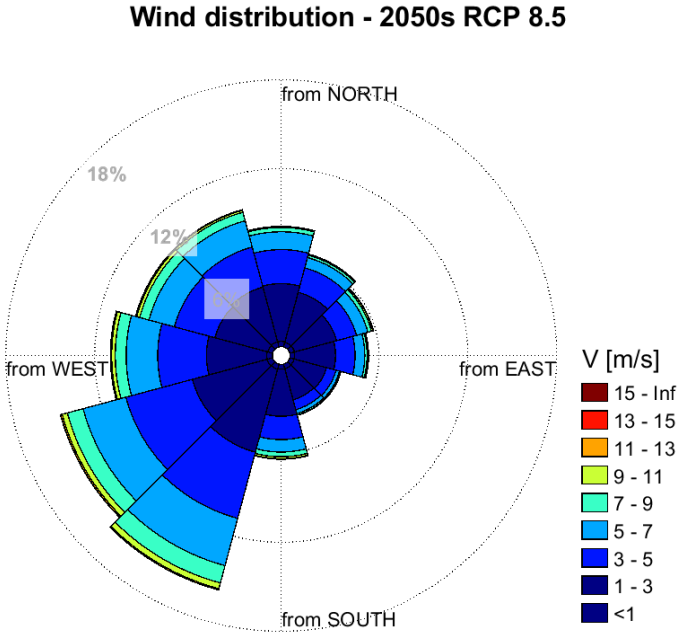


Figure F3.42: Wind Distribution - 2050s RCP 8.5. The direction indicates where the wind comes from.

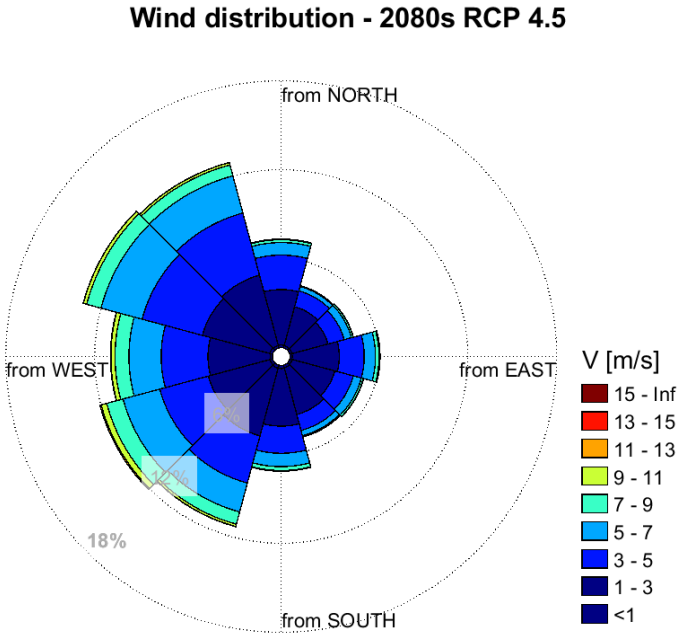


Figure F3.43: Wind Distribution - 2080s RCP 4.5. The direction indicates where the wind comes from.

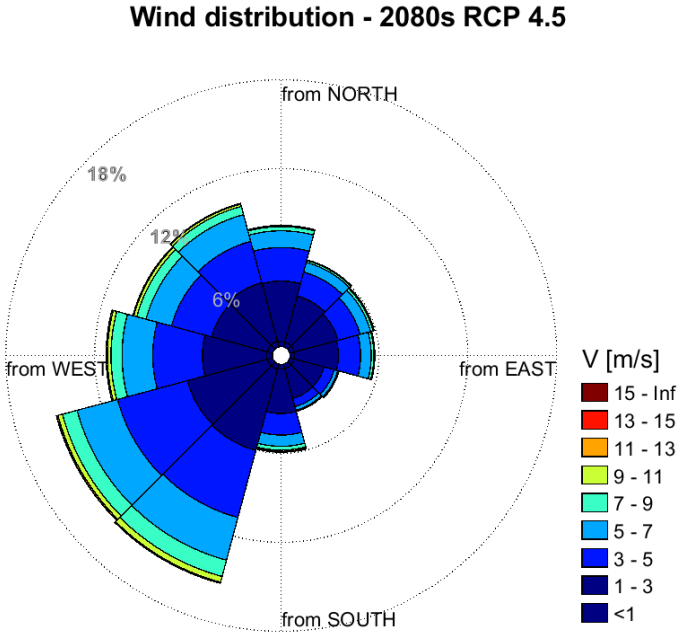


Figure F3.44: Wind Distribution - 2080s RCP 4.5. The direction indicates where the wind comes from.

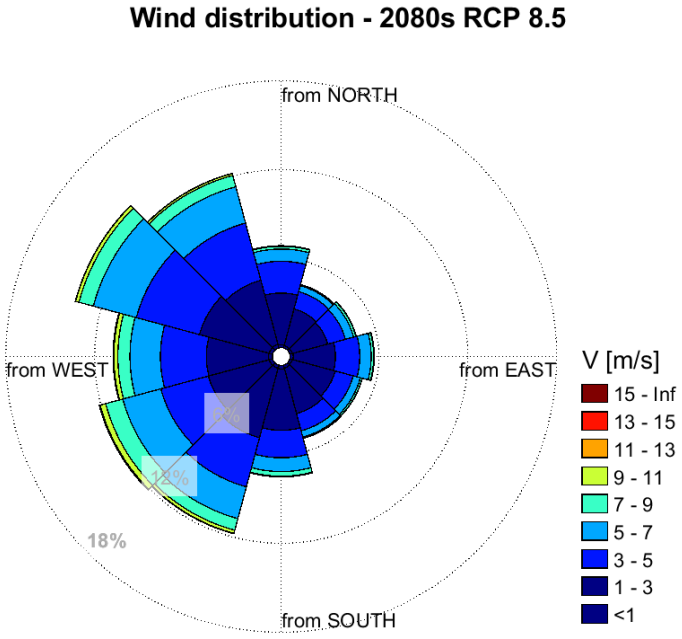


Figure F3.45: Wind Distribution - 2080s RCP 8.5. The direction indicates where the wind comes from.

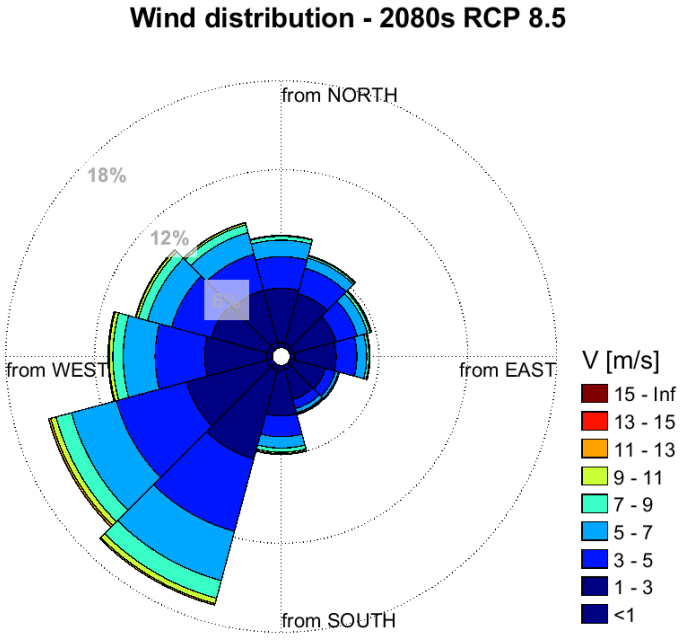


Figure F3.46: Wind Distribution - 2080s RCP 8.5. The direction indicates where the wind comes from.

F4 Humidity

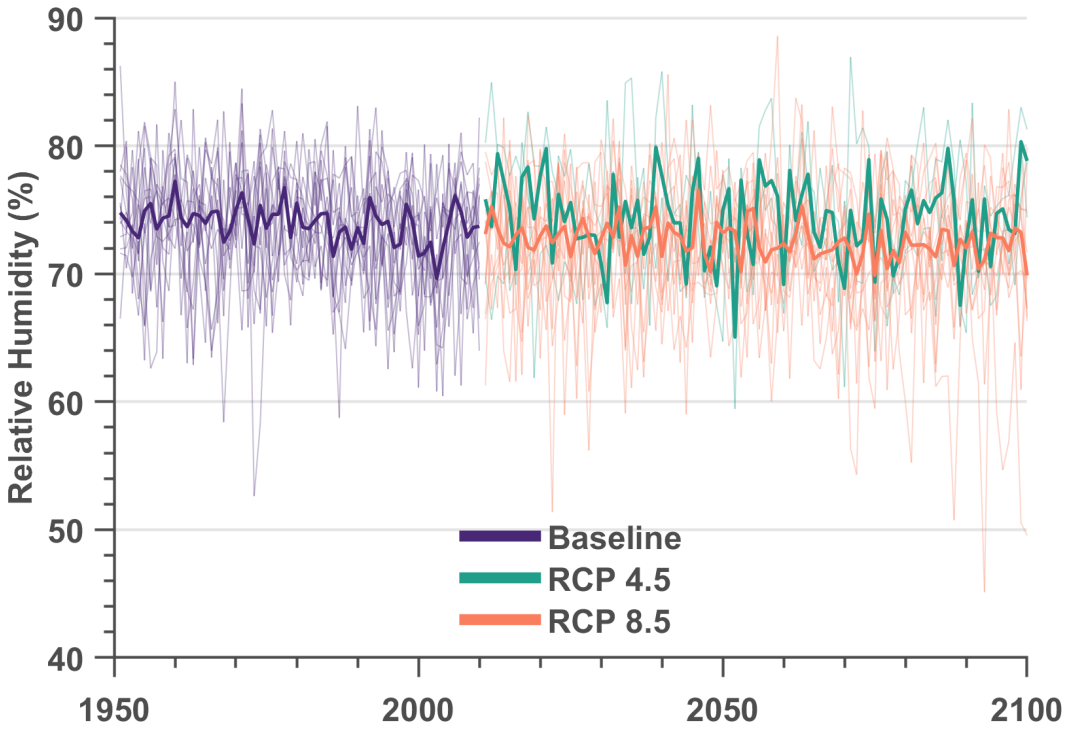


Figure F4.1: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - January.

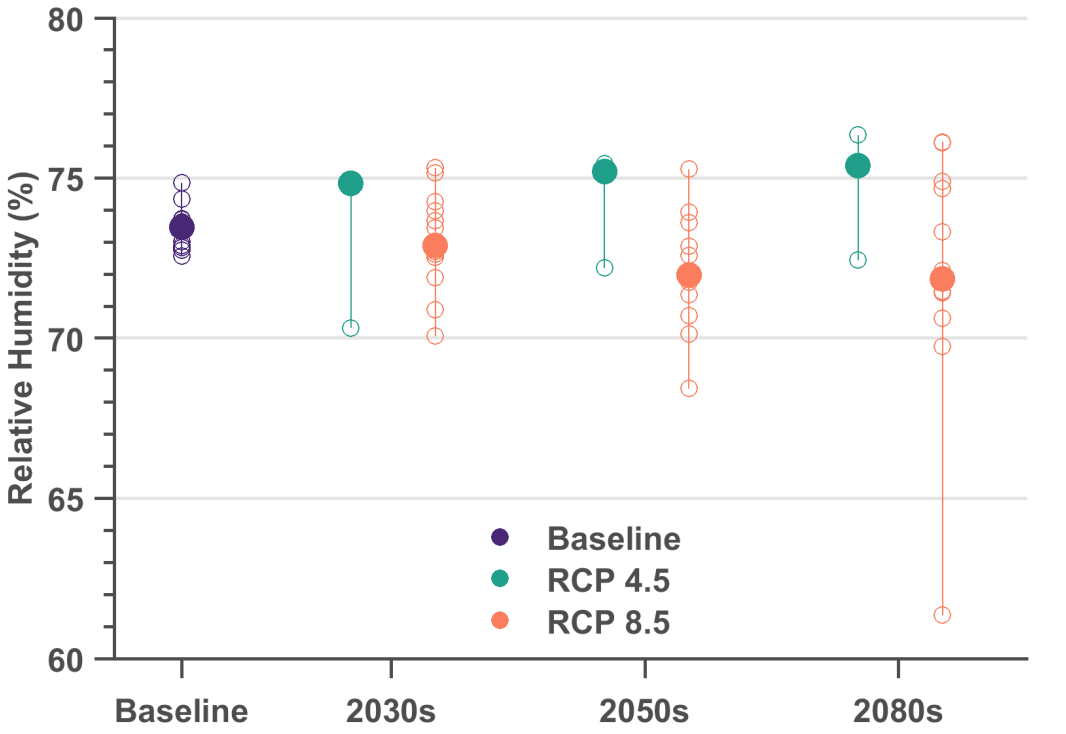


Figure F4.2: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - January.

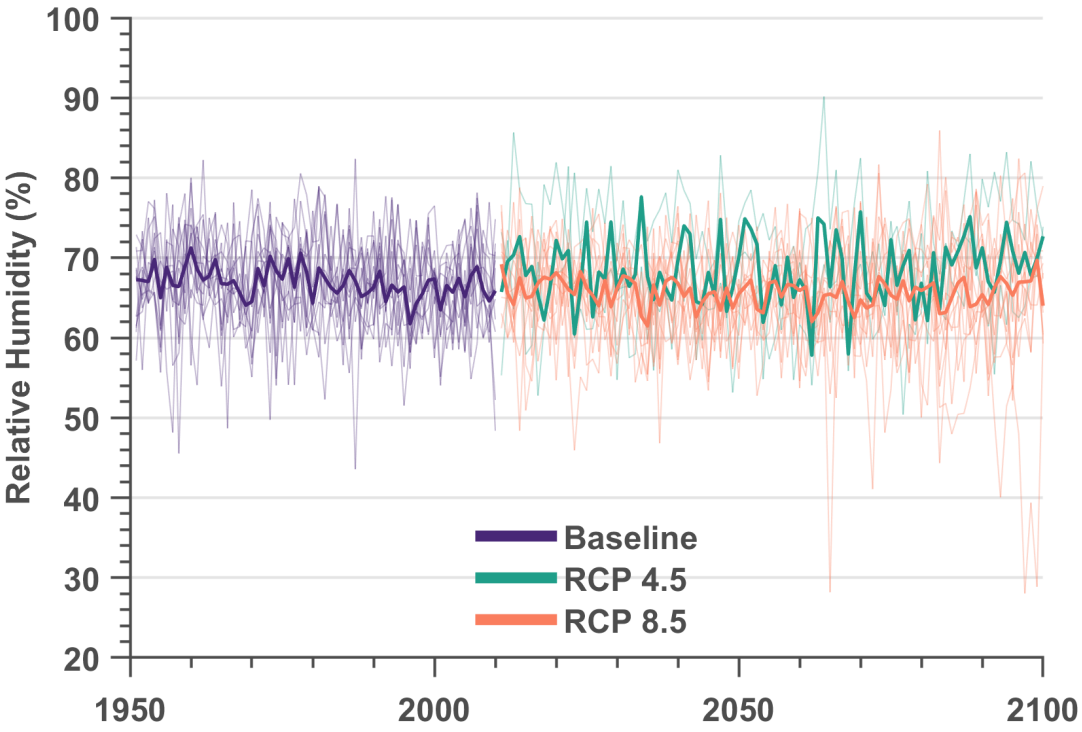


Figure F4.3: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - February.

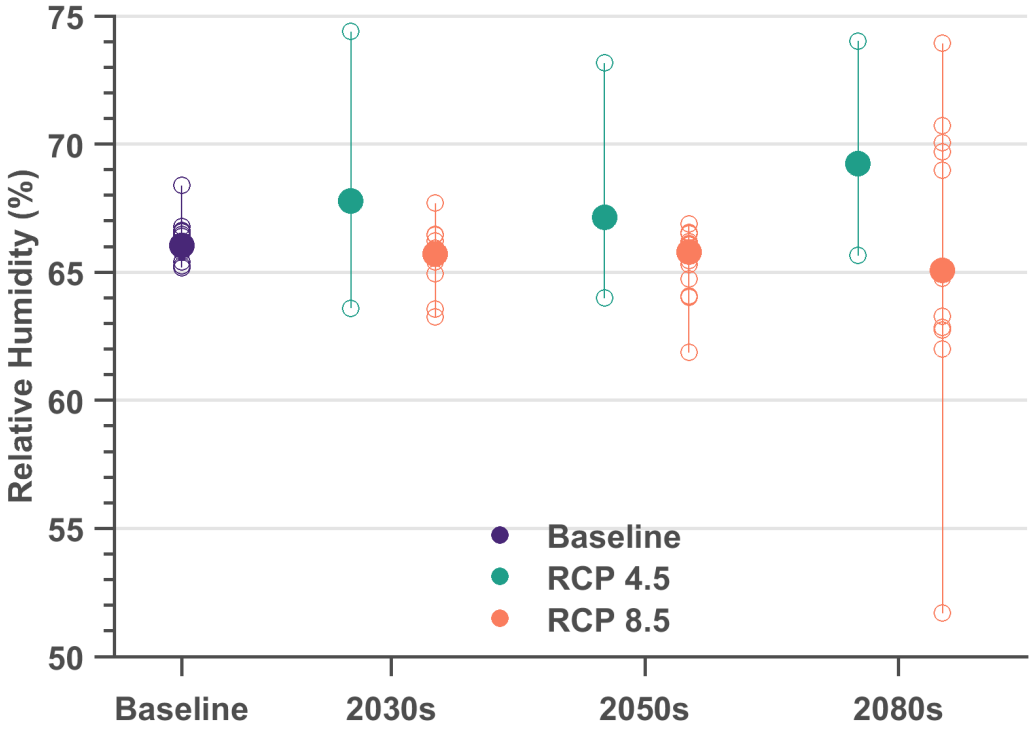


Figure F4.4: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - February.

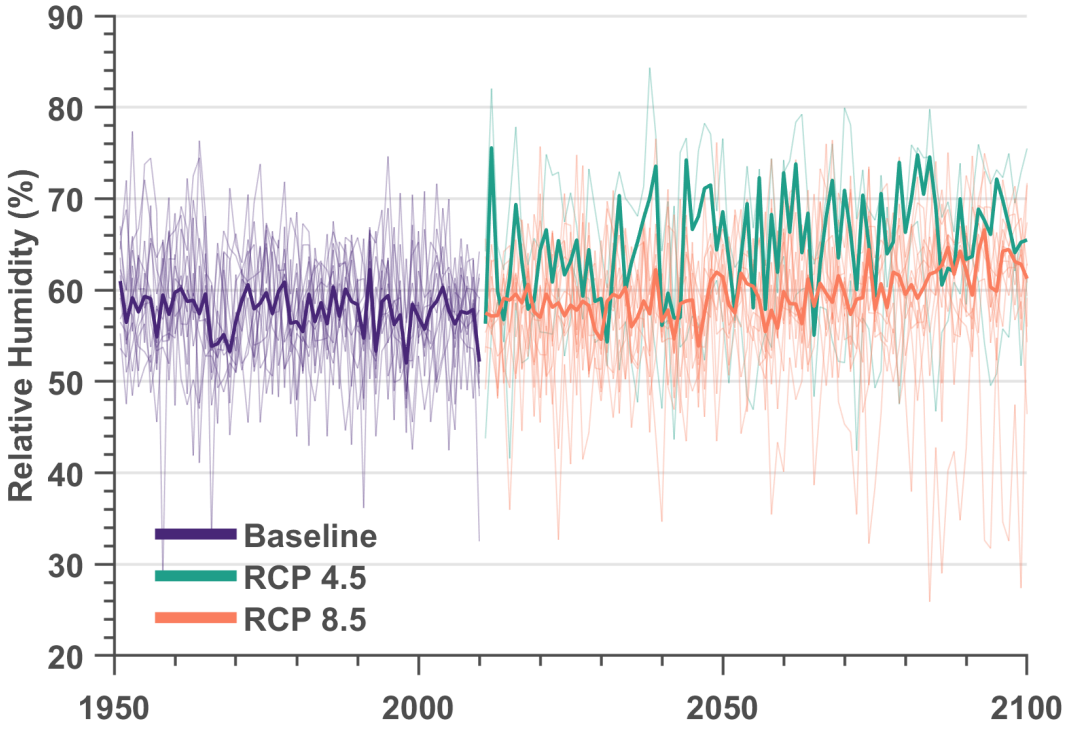


Figure F4.5: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - March.

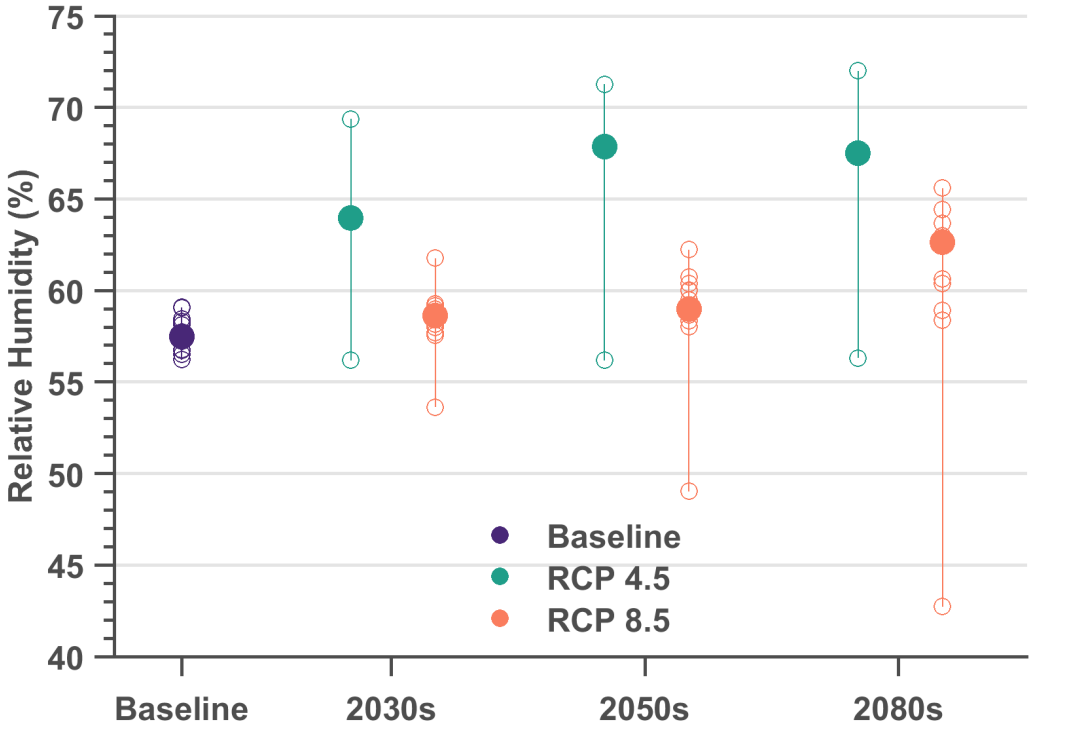


Figure F4.6: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - March.

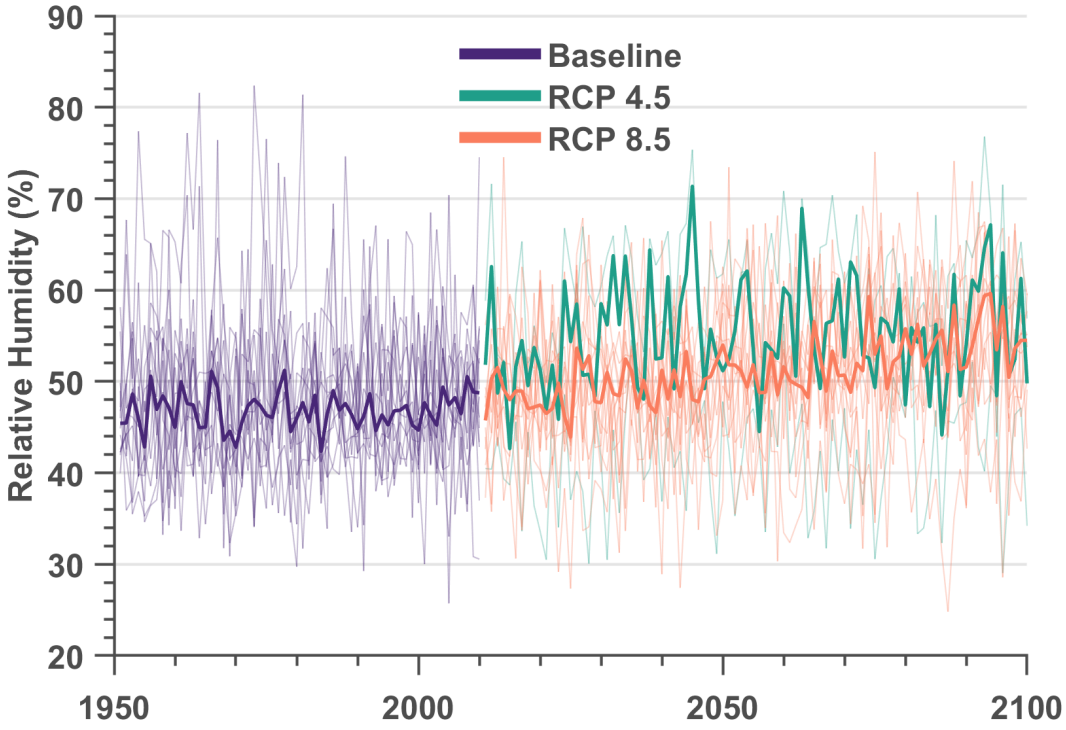


Figure F4.7: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - April.

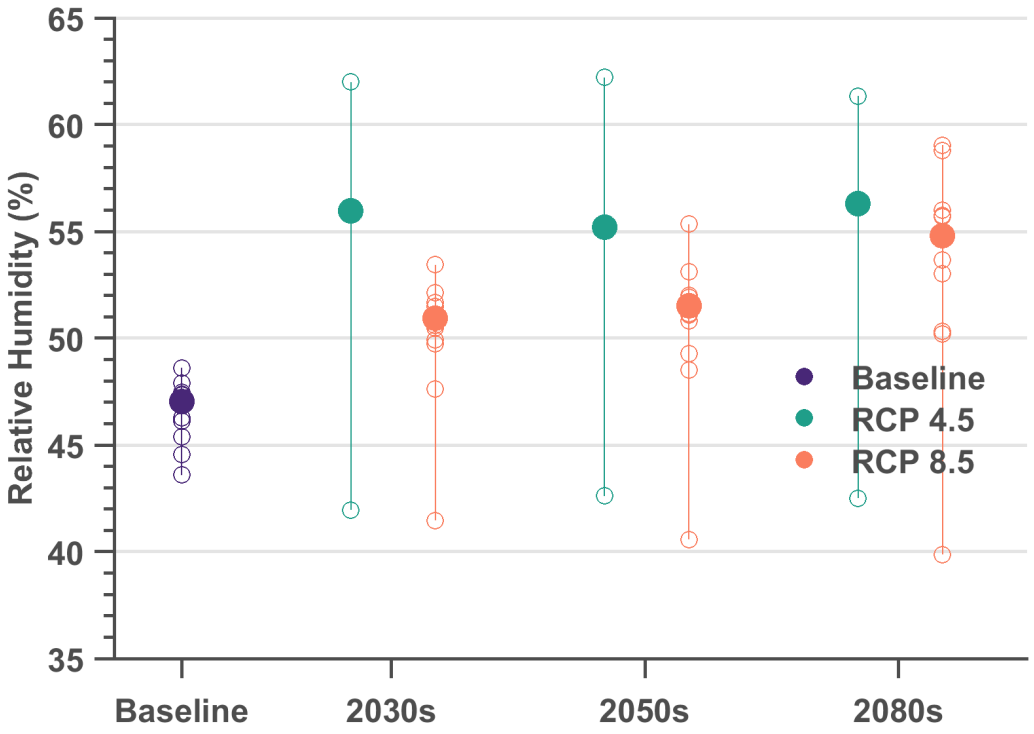


Figure F4.8: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - April.

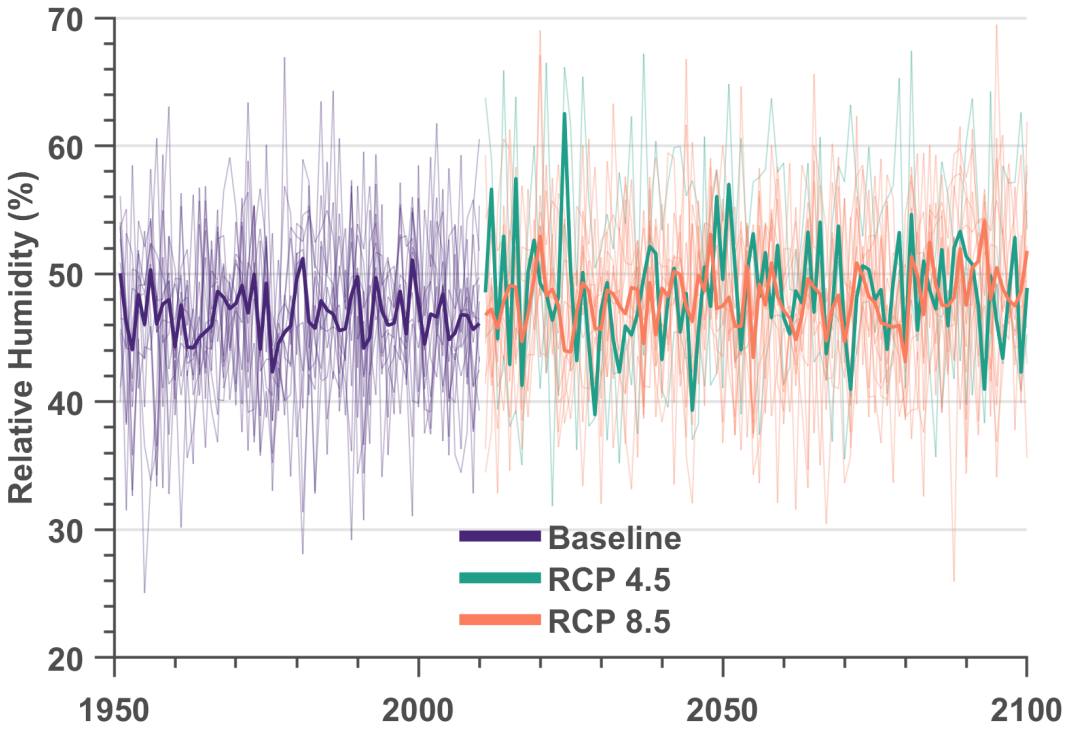


Figure F4.9: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - May.

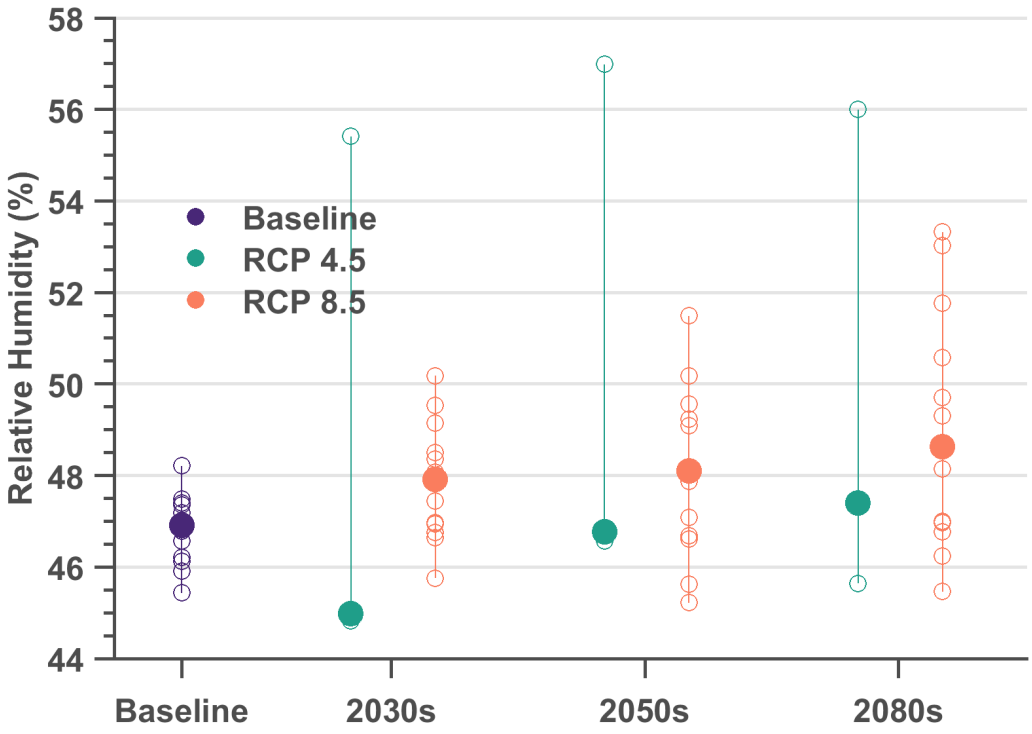


Figure F4.10: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - May.

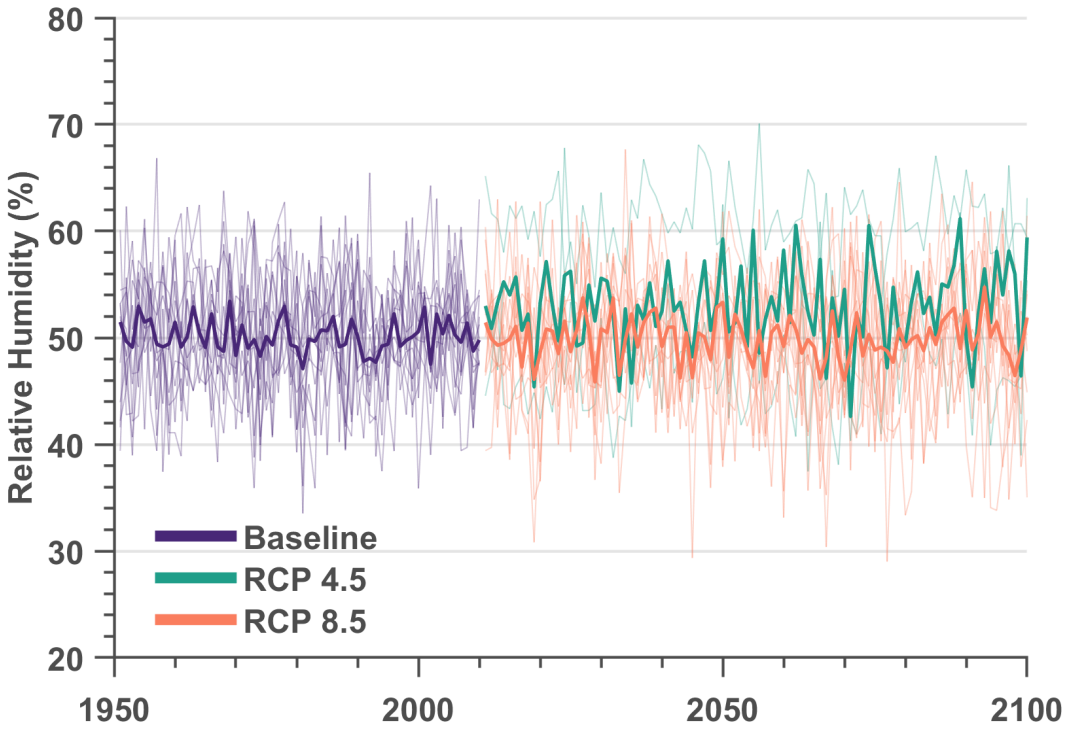


Figure F4.11: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - June.

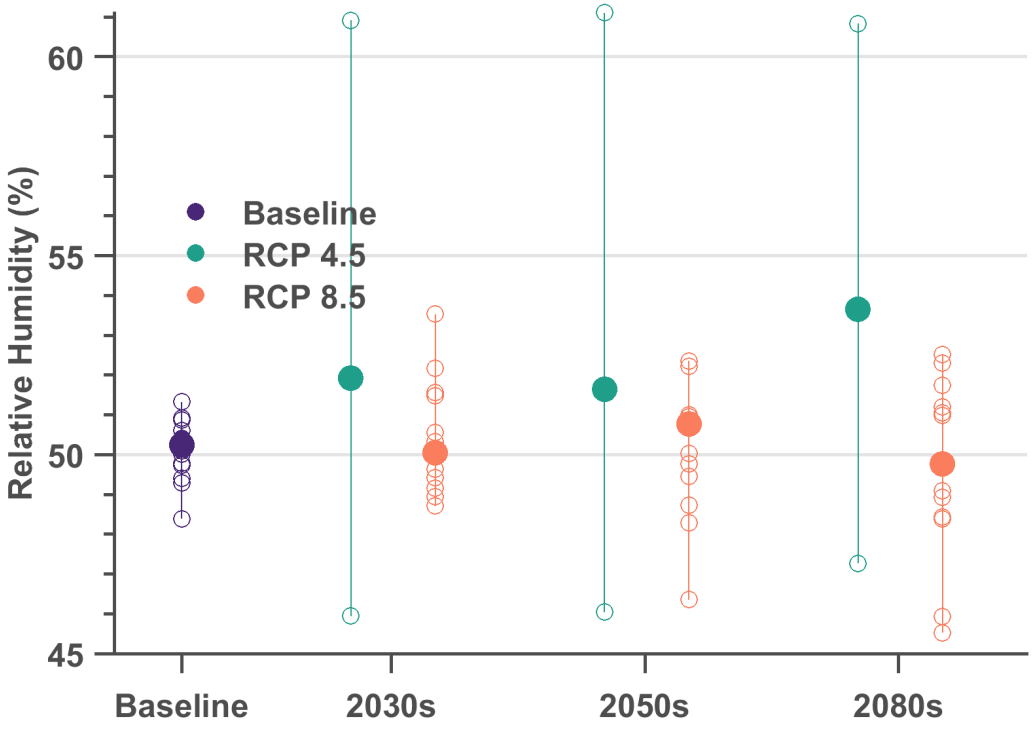


Figure F4.12: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - June.

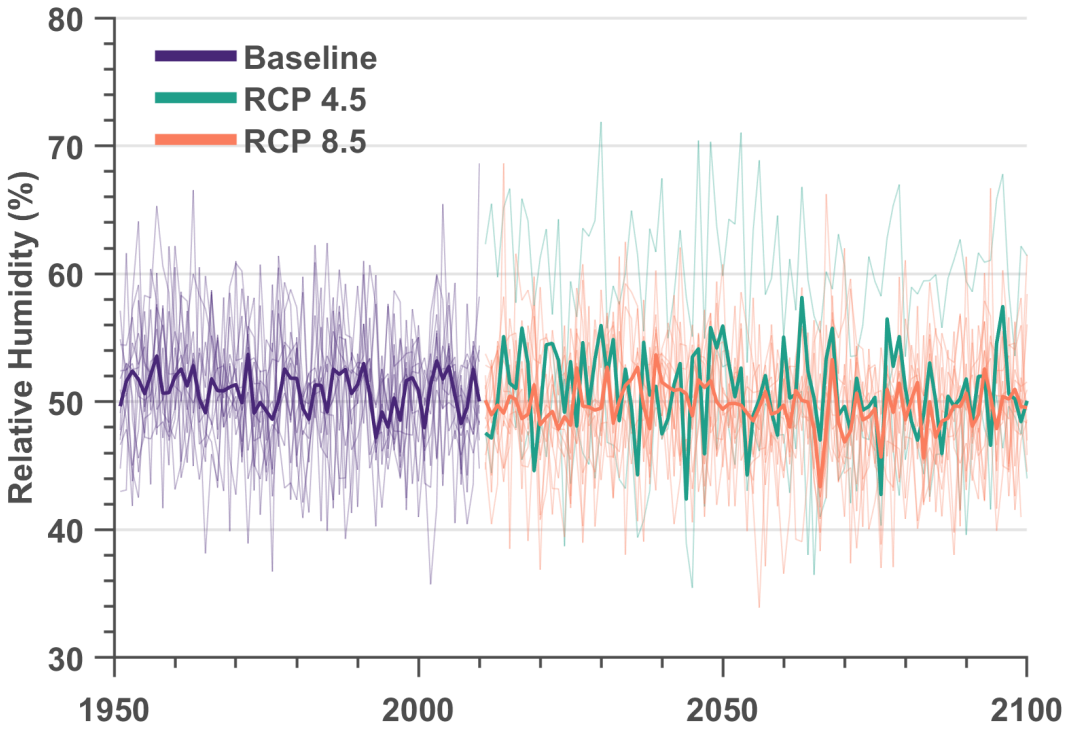


Figure F4.13: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - July.

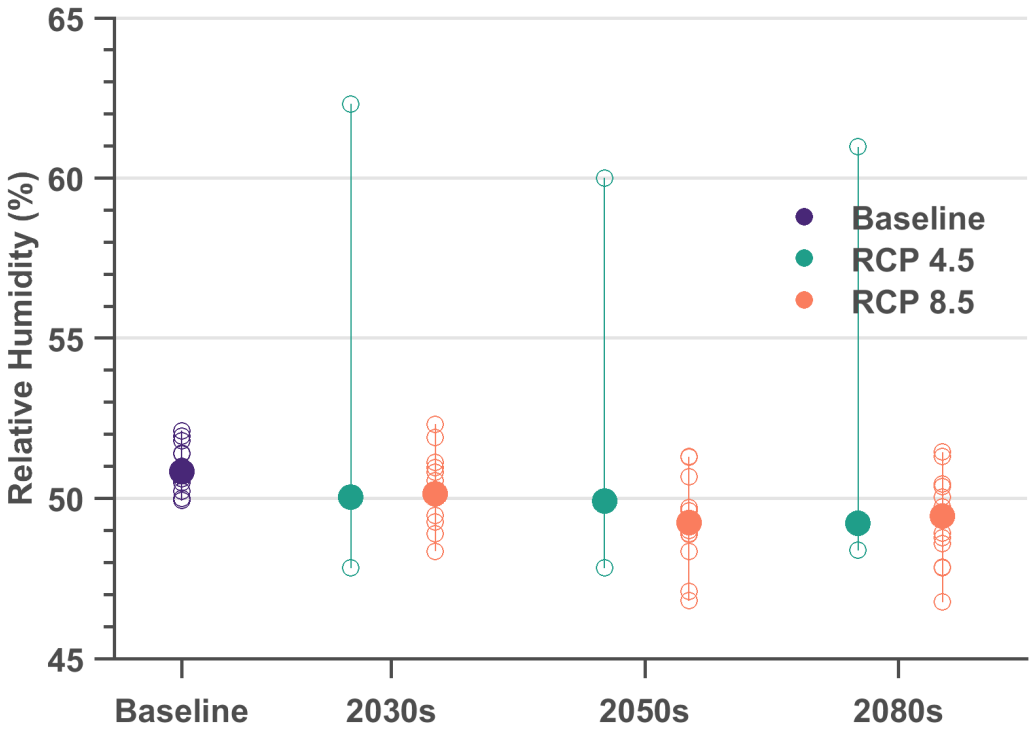


Figure F4.14: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - July.

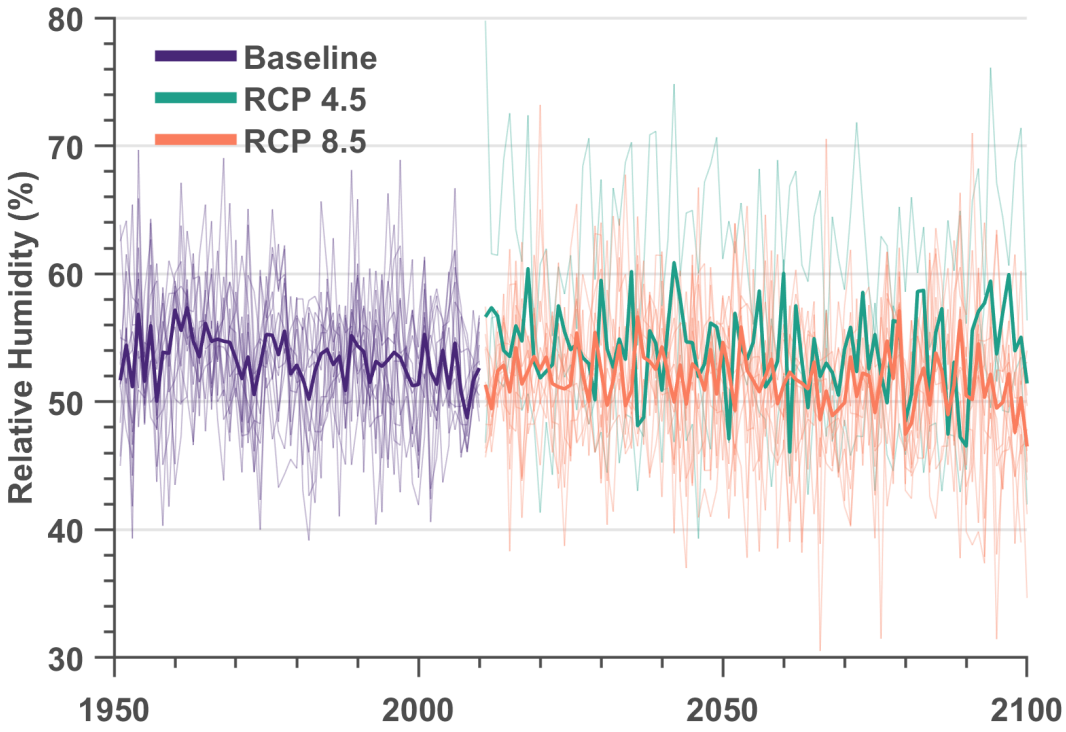


Figure F4.15: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - August.

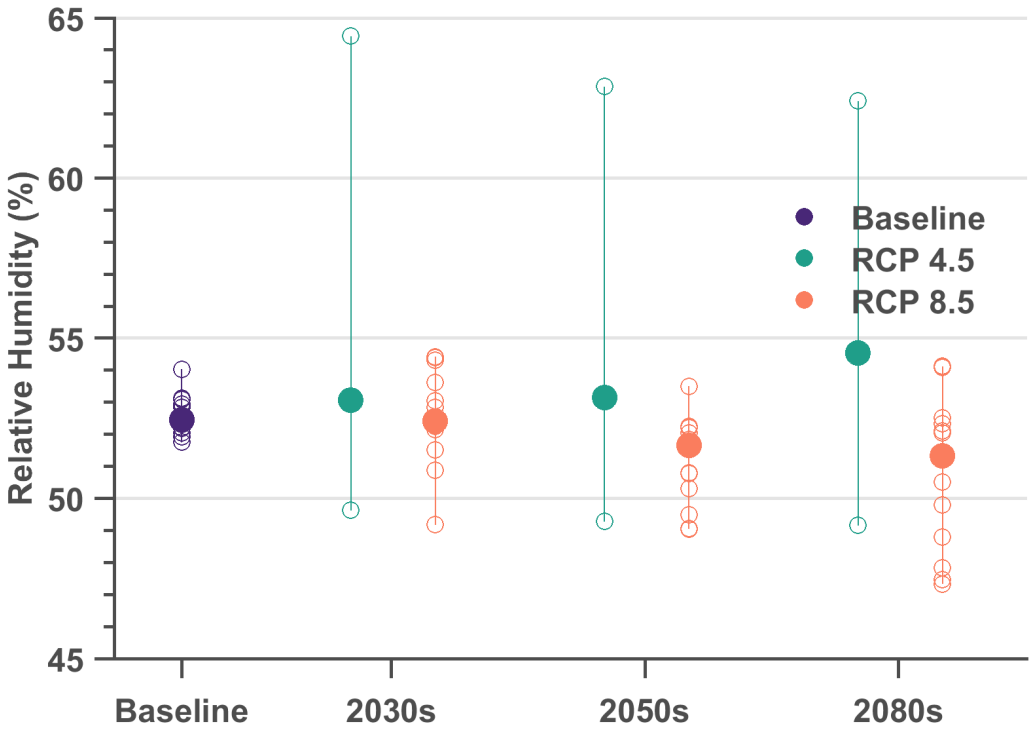


Figure F4.16: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - August.

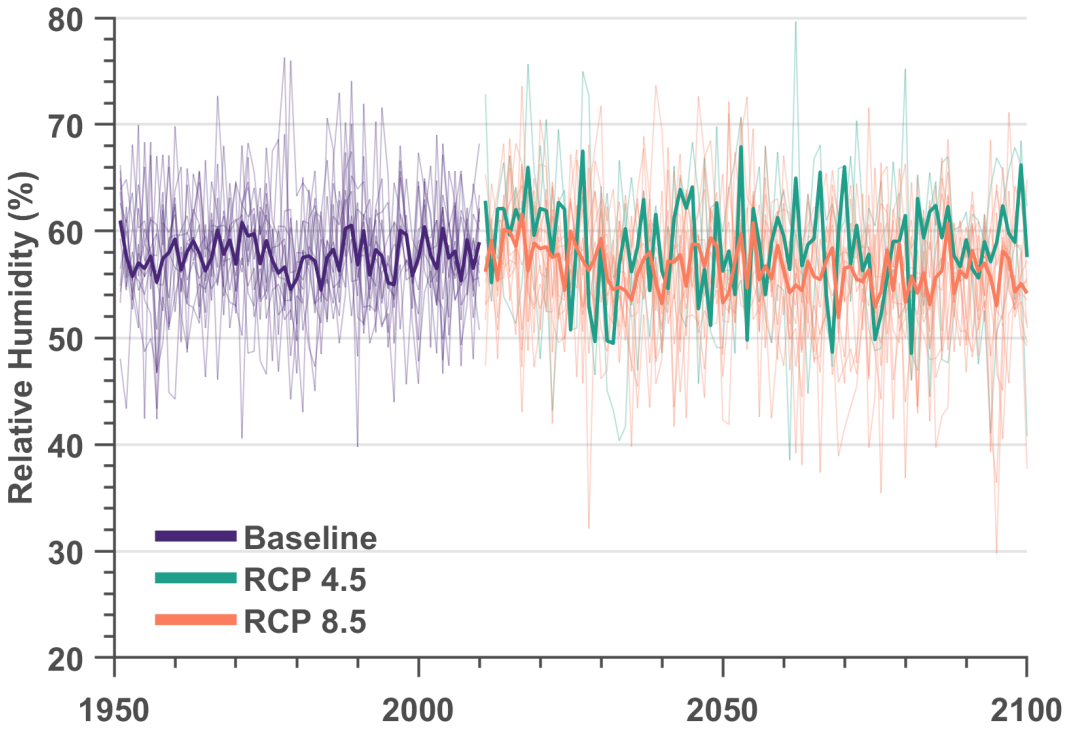


Figure F4.17: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - September.

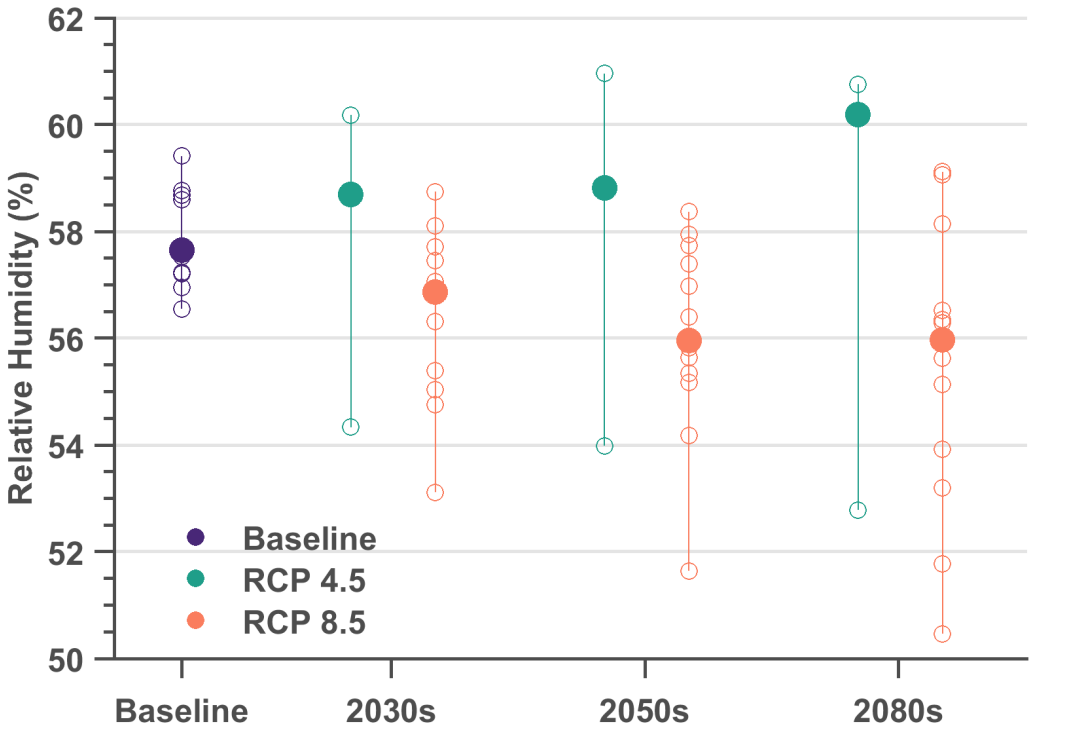


Figure F4.18: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - September.

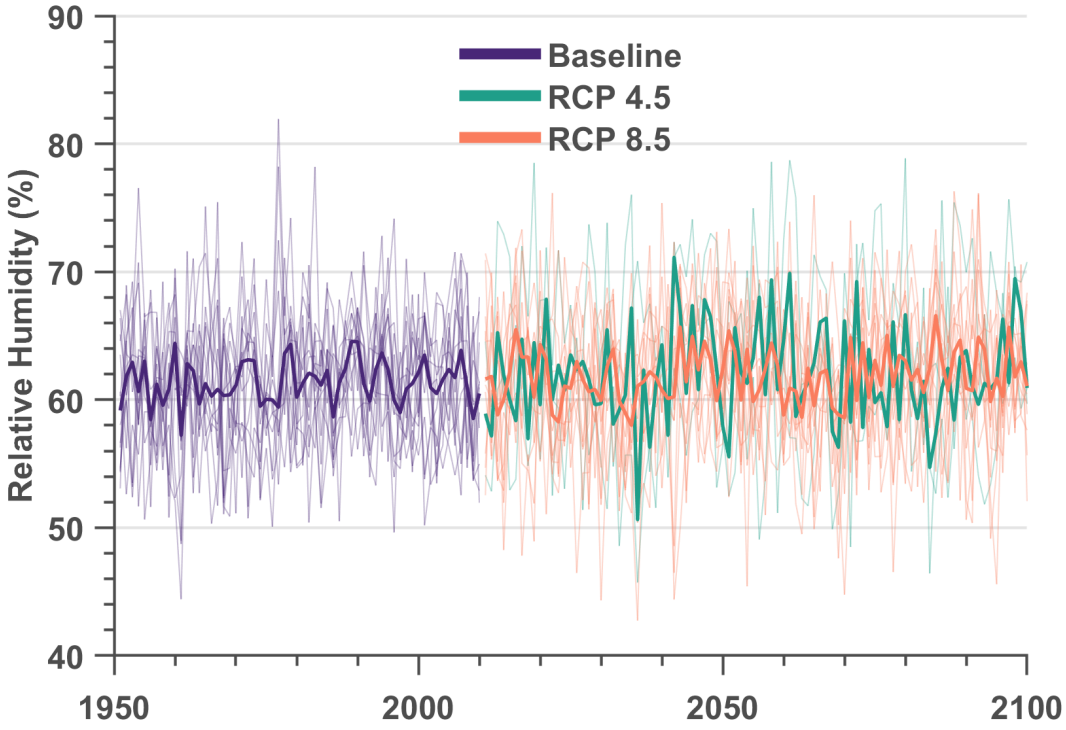


Figure F4.19: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - October.

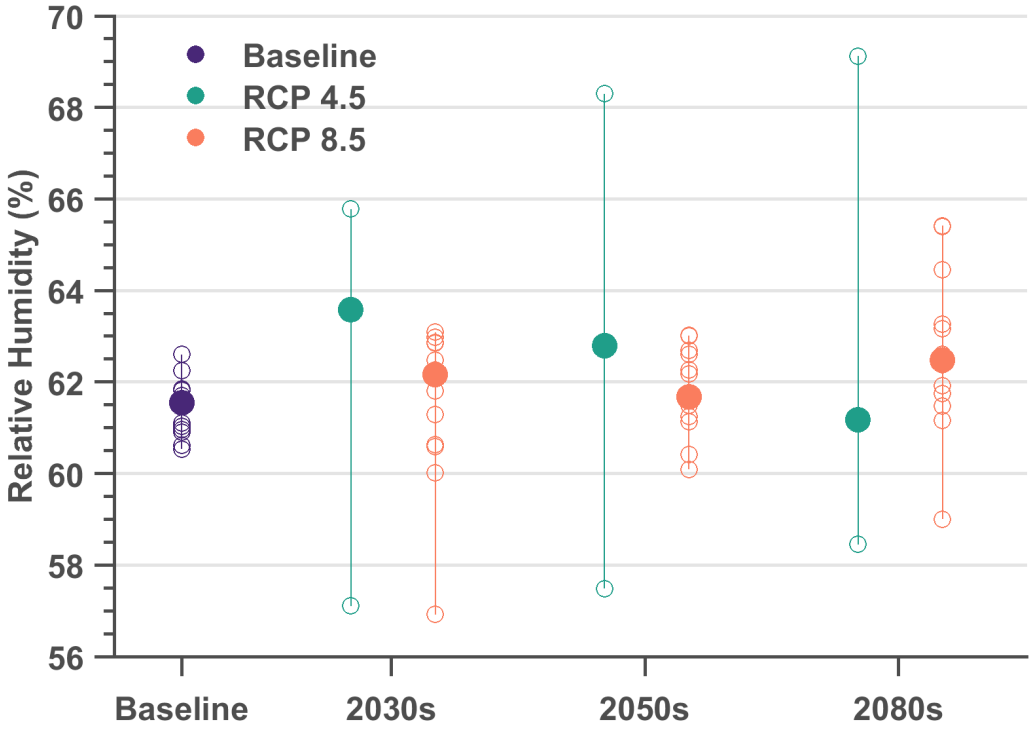


Figure F4.20: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - October.

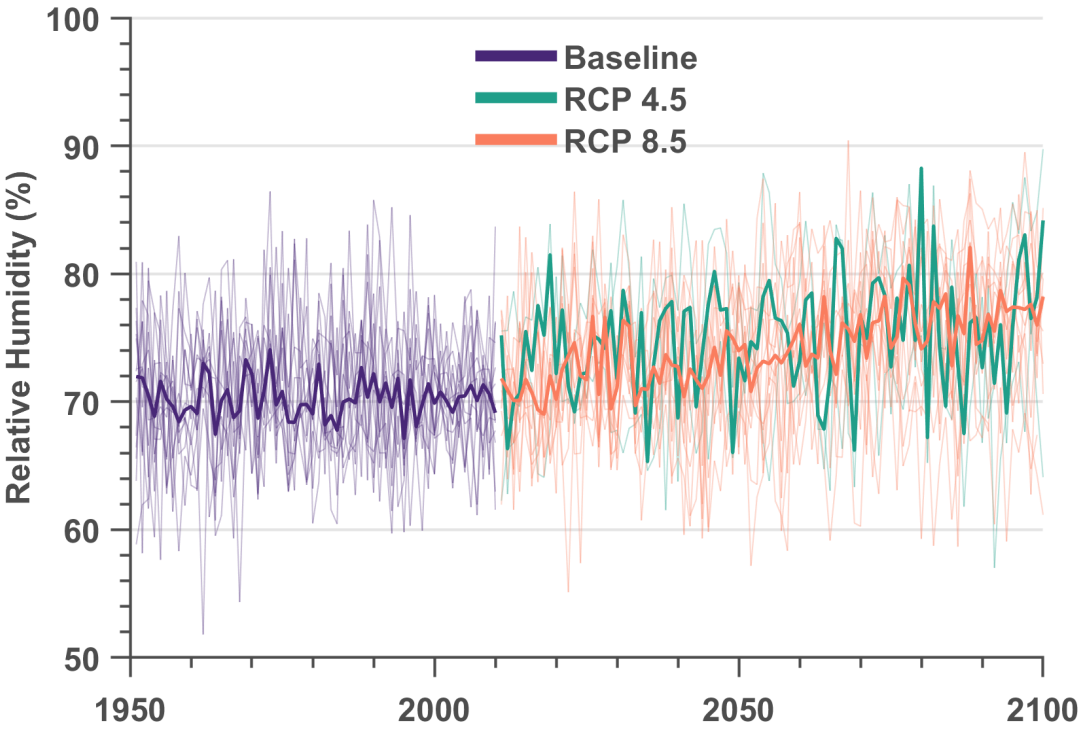


Figure F4.21: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - November.

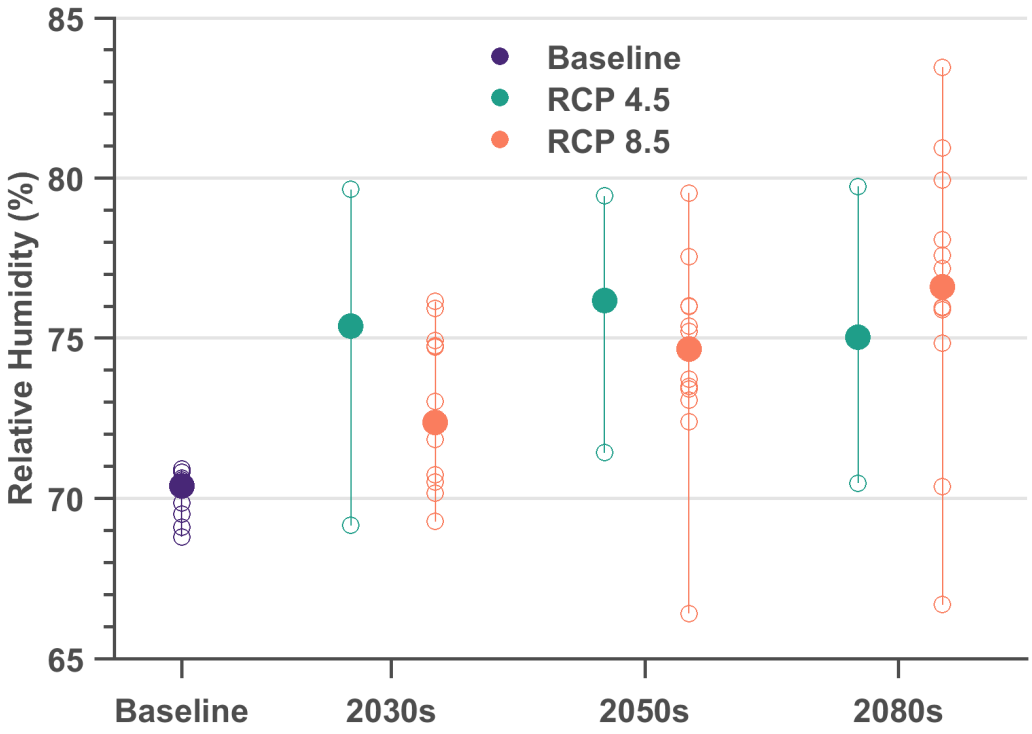


Figure F4.22: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - November.

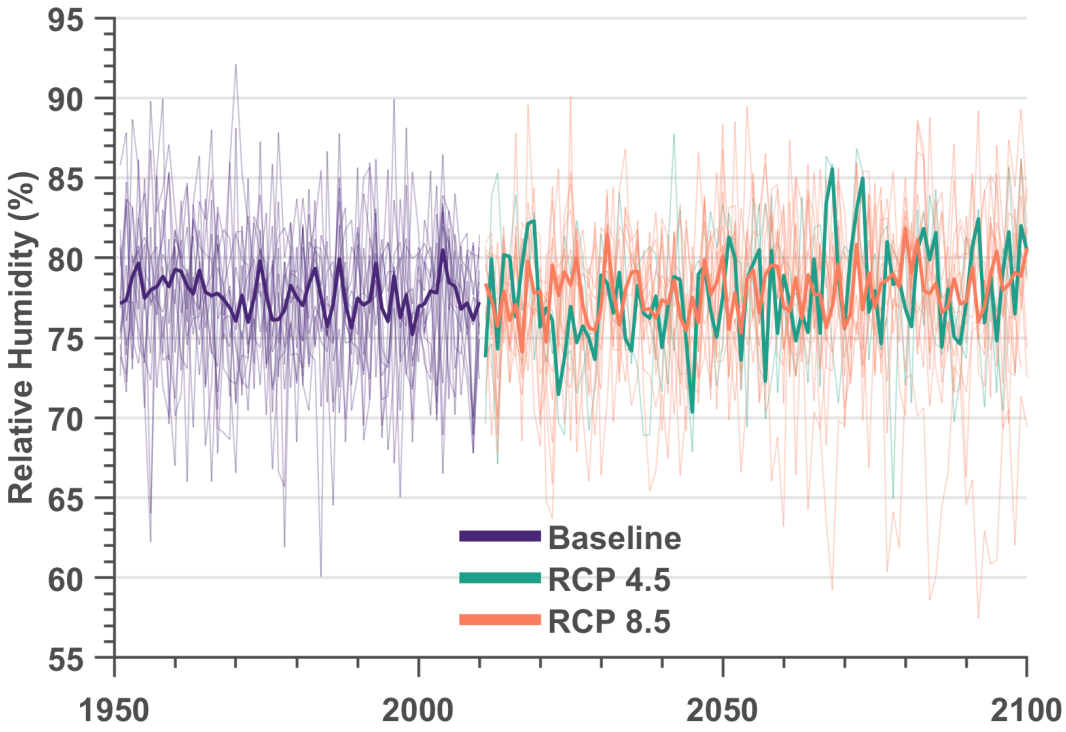


Figure F4.23: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - December.

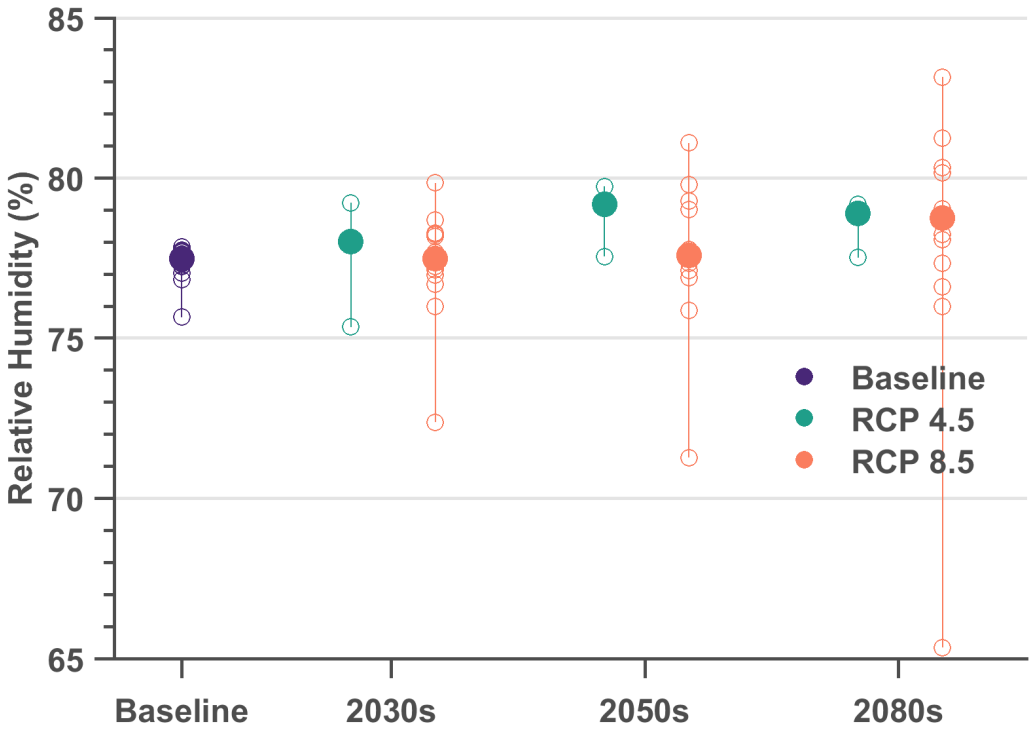


Figure F4.24: Monthly Average Relative Humidity at the Time of Max. Daily Temperature - December.

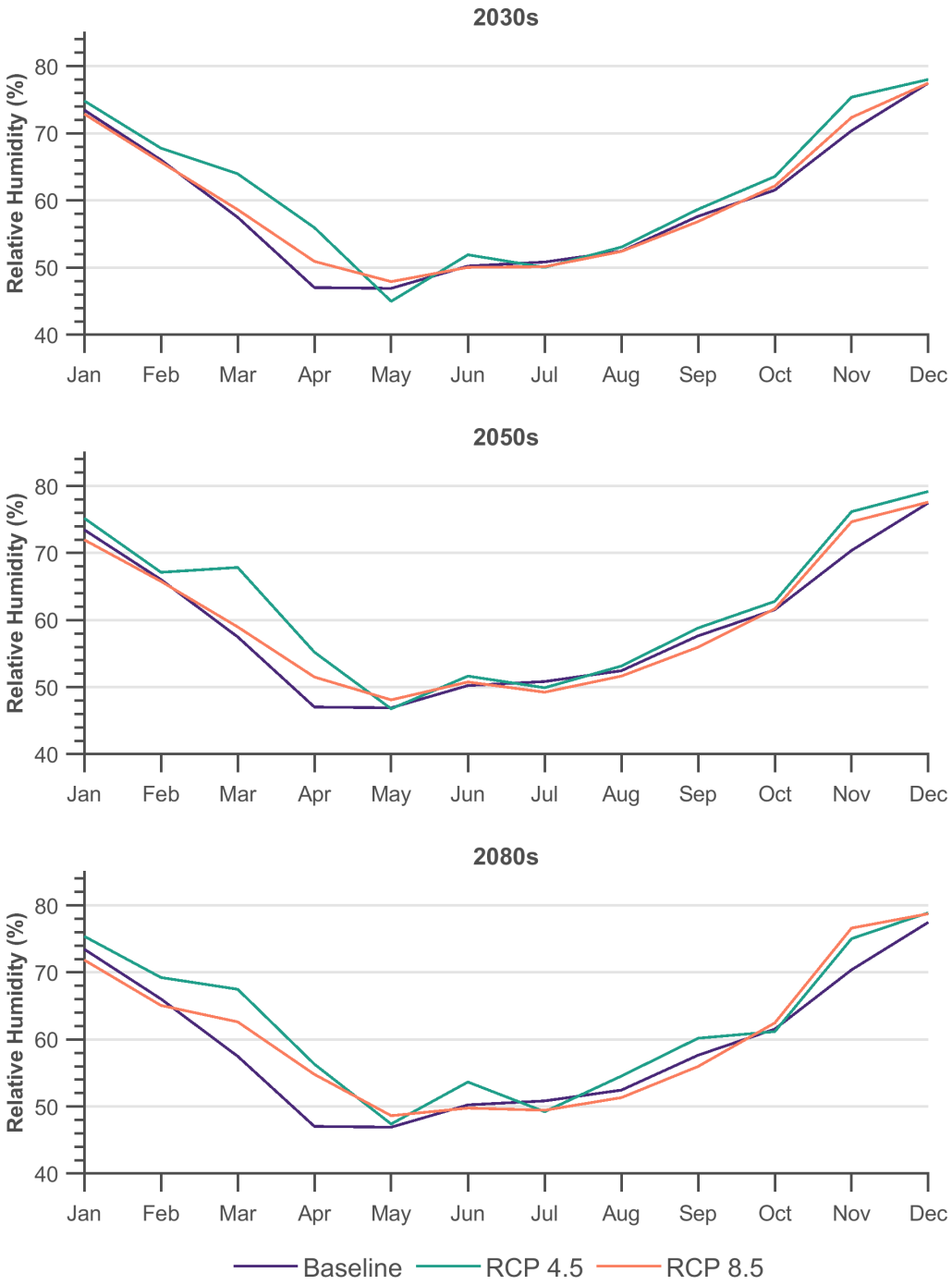


Figure F4.25: Monthly Average Relative Humidity at the Time of Max. Daily Temperature.

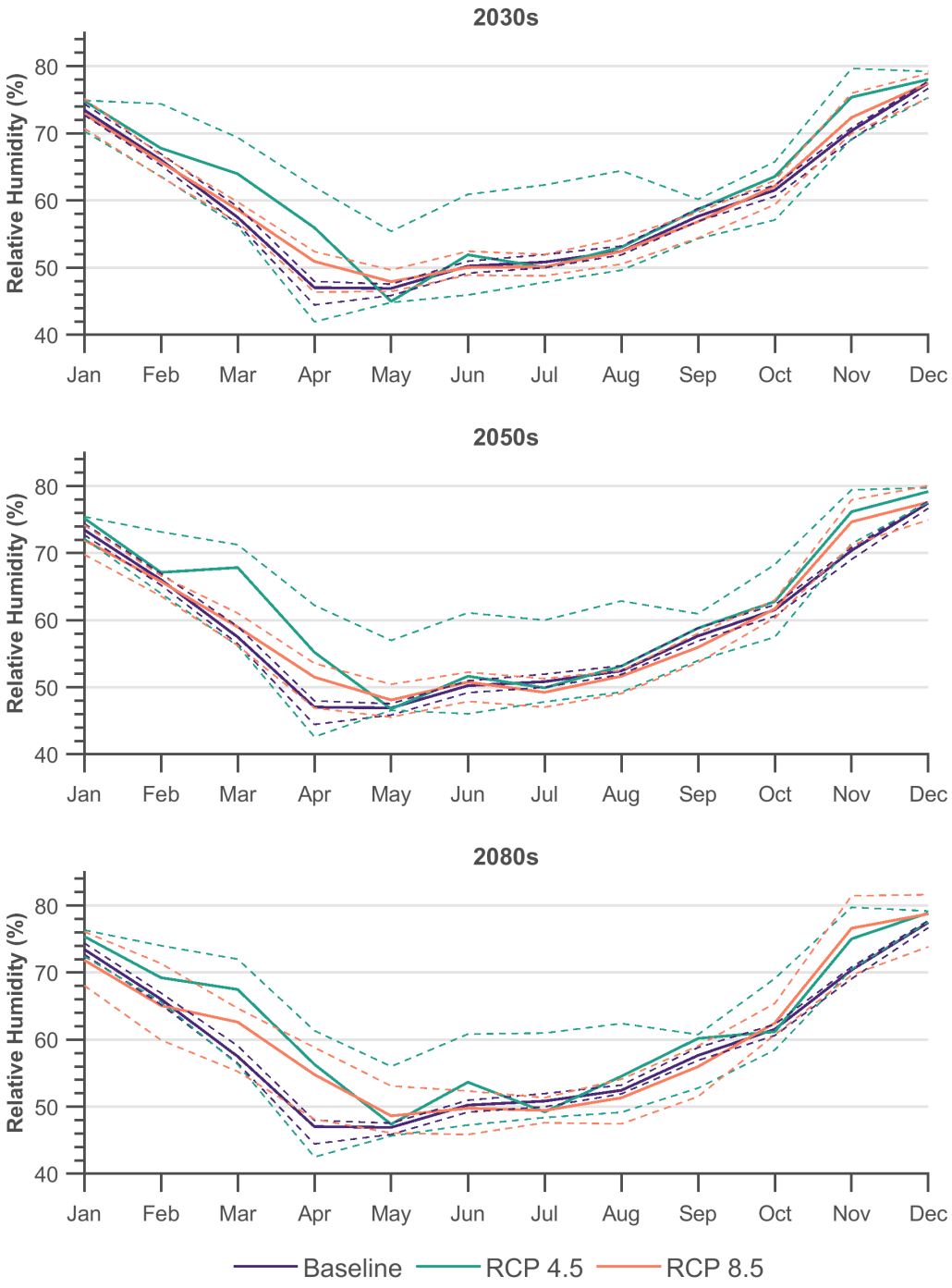


Figure F4.26: Monthly Average Relative Humidity at the Time of Max. Daily Temperature. Dashed lines indicate the 10% and 90% percentile.

F5 Combined

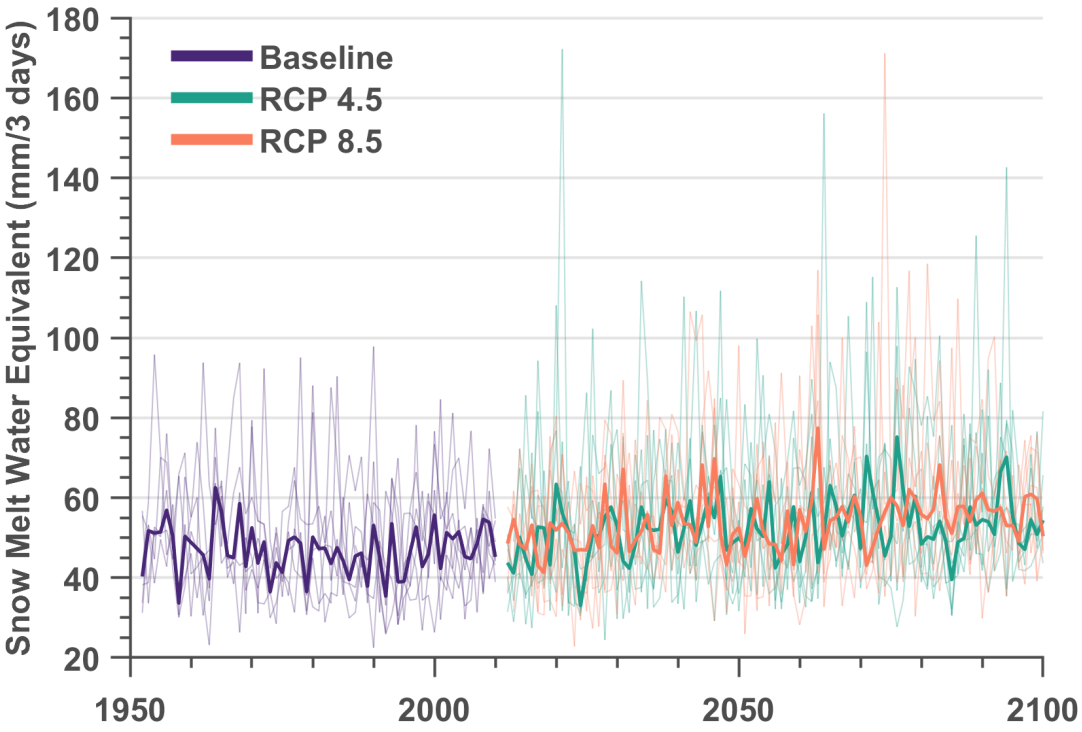


Figure F5.1: Max. 3-Day Sum of Snow Melt and Precipitation.

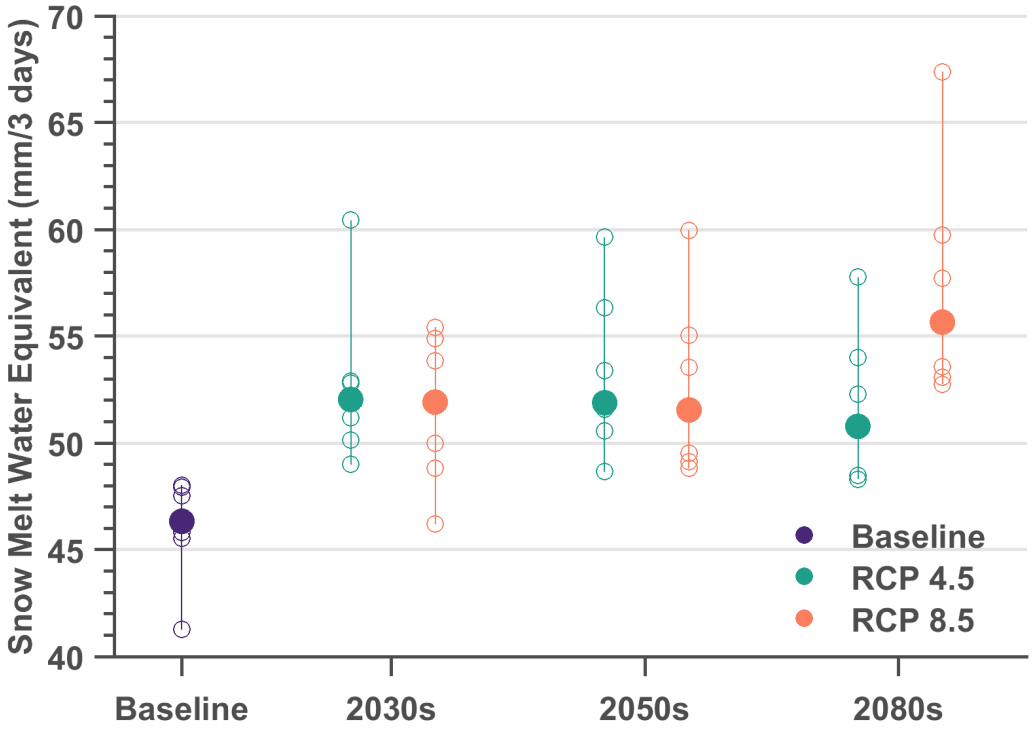


Figure F5.2: Max. 3-Day Sum of Snow Melt and Precipitation.

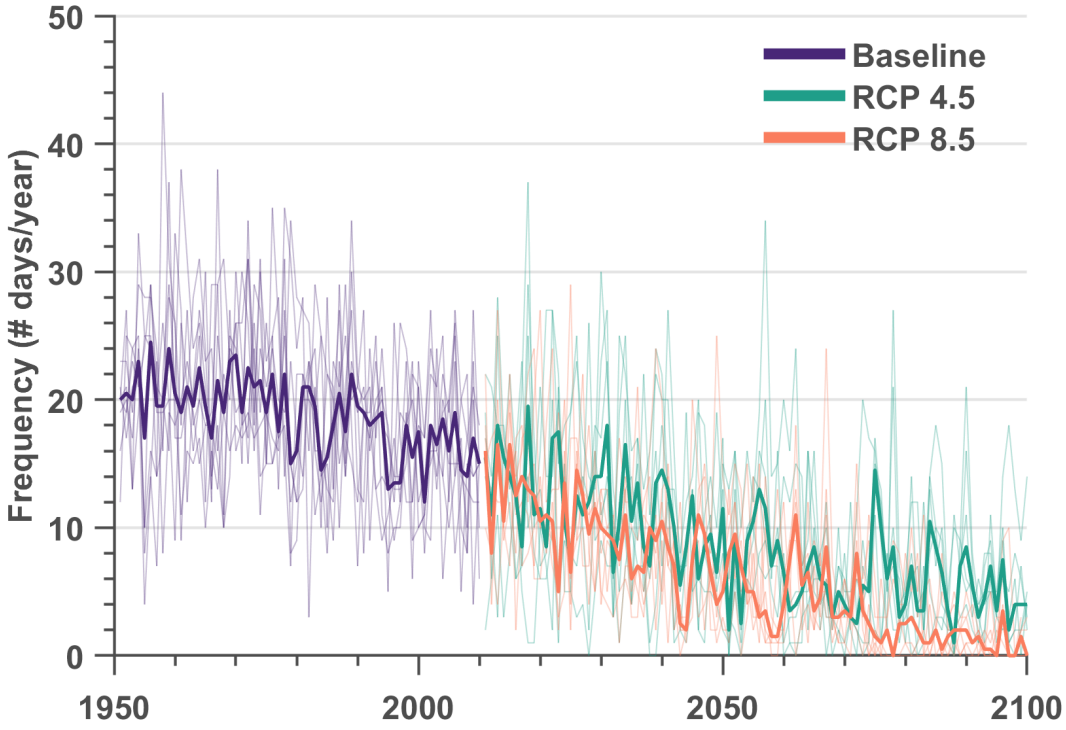


Figure F5.3: Number of Days Wind Chill is between -35°C and -25°C.

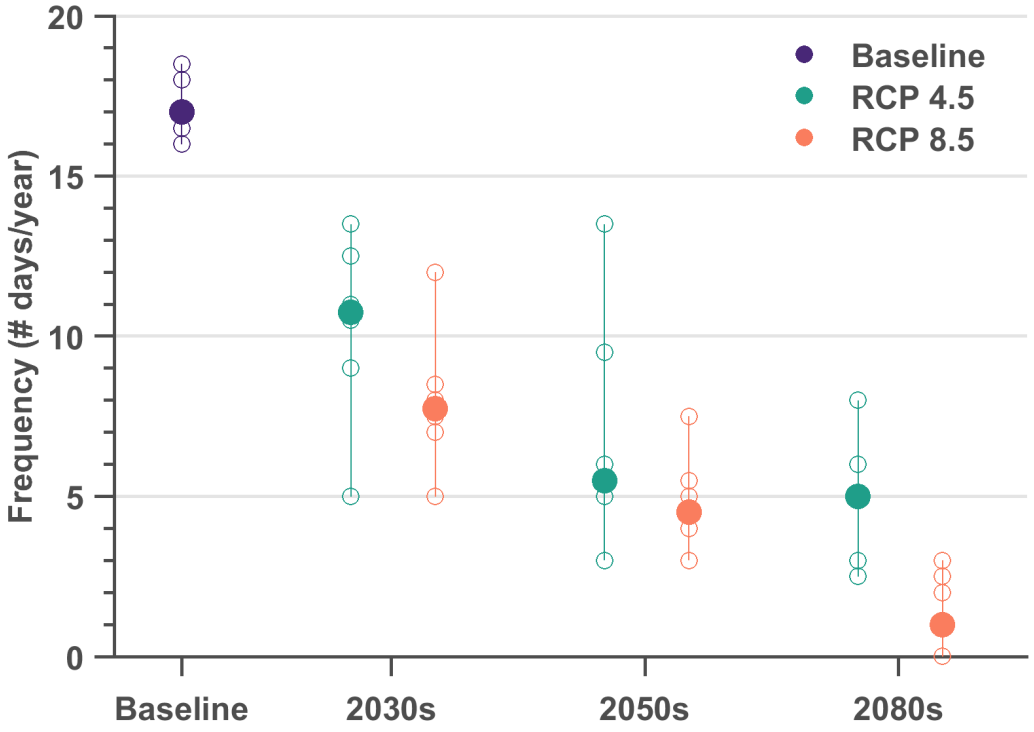


Figure F5.4: Number of Days Wind Chill is between -35°C and -25°C.

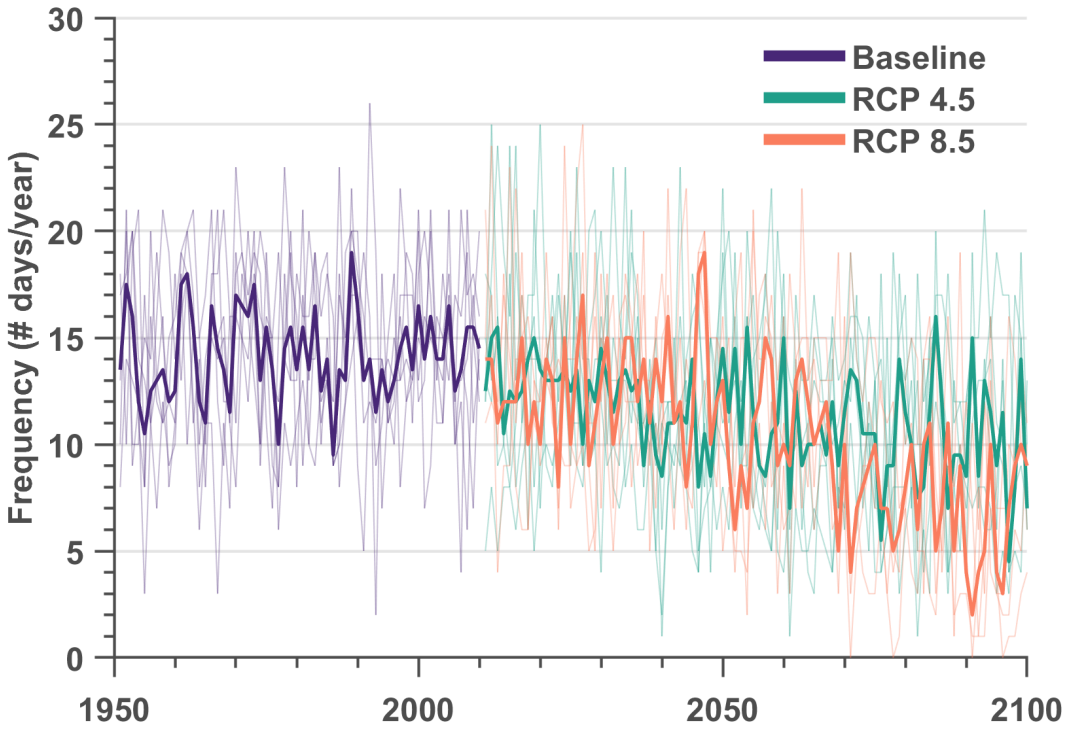


Figure F5.5: Number of Days Wind > 10 km/hr and Snow > 1 cm.

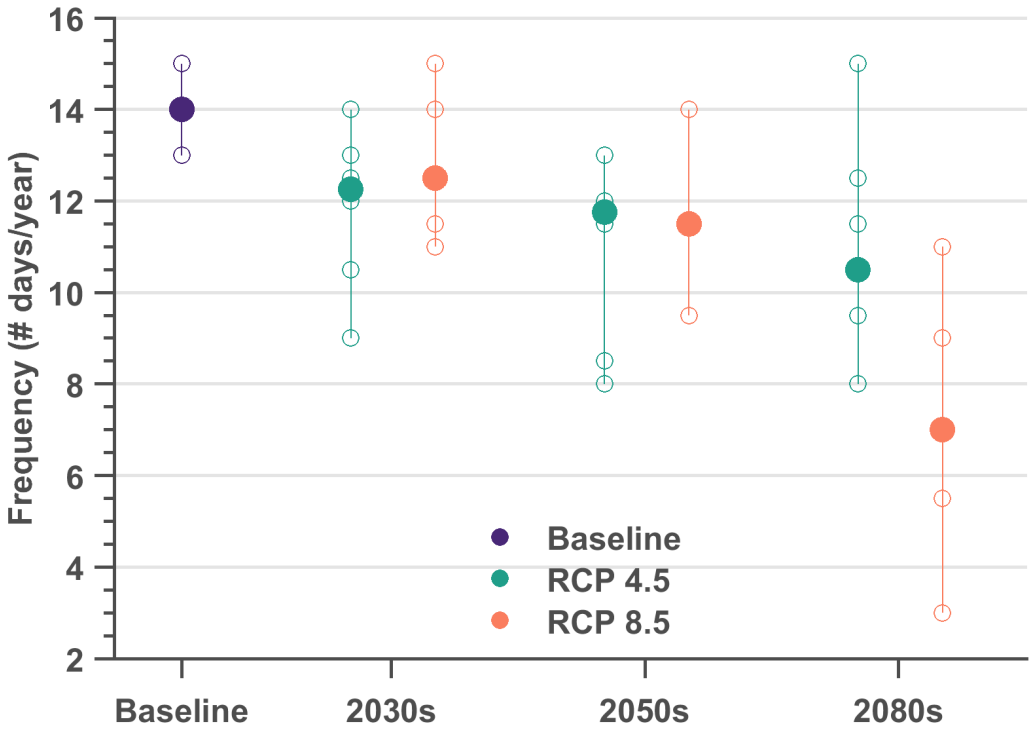


Figure F5.6: Number of Days Wind > 10 km/hr and Snow > 1 cm.

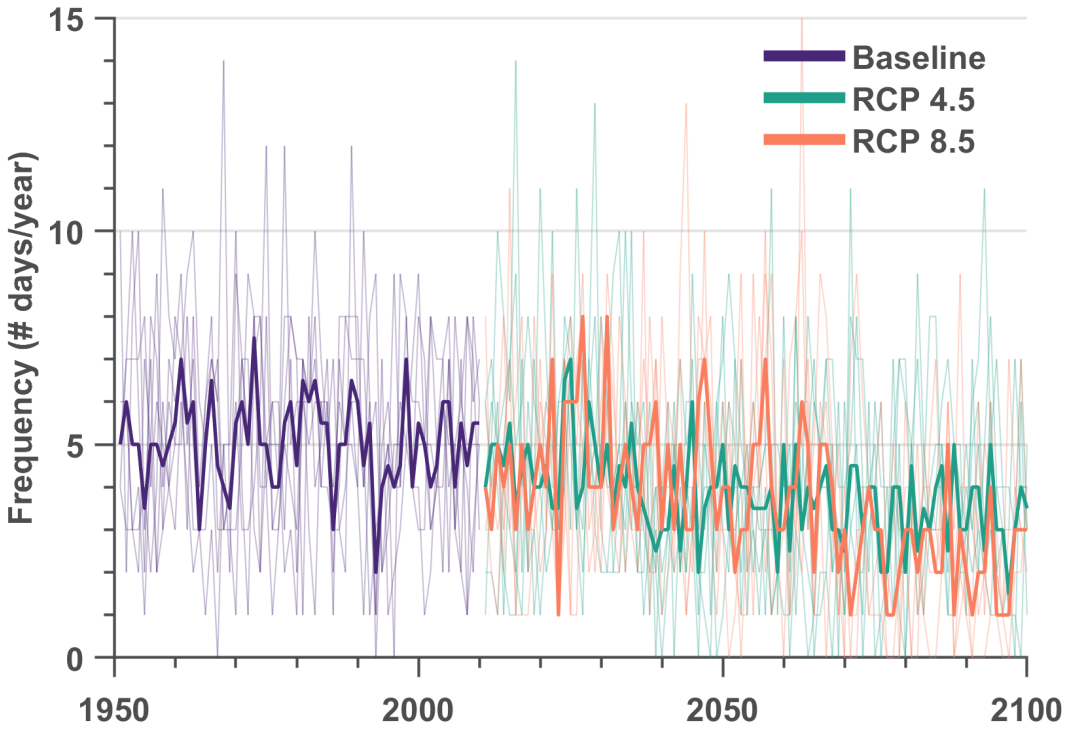


Figure F5.7: Number of Days Wind > 10 km/hr and Snow > 5 cm.

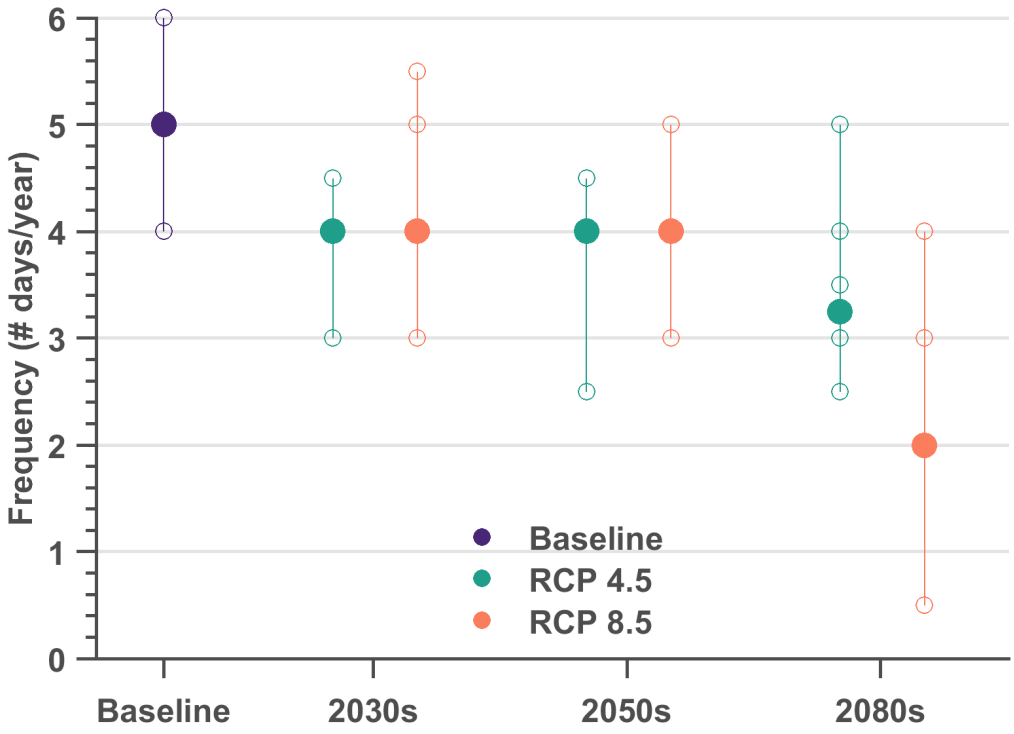


Figure F5.8: Number of Days Wind > 10 km/hr and Snow > 5 cm.

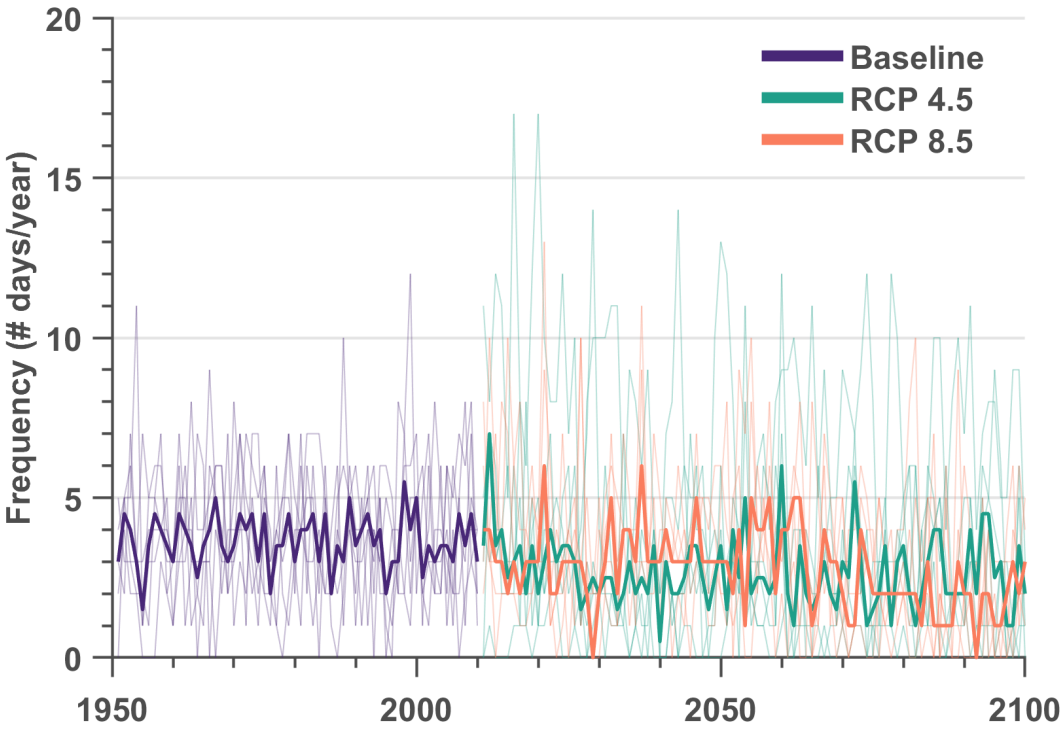


Figure F5.9: Number of Days Wind > 20 km/hr and Snow > 1 cm.

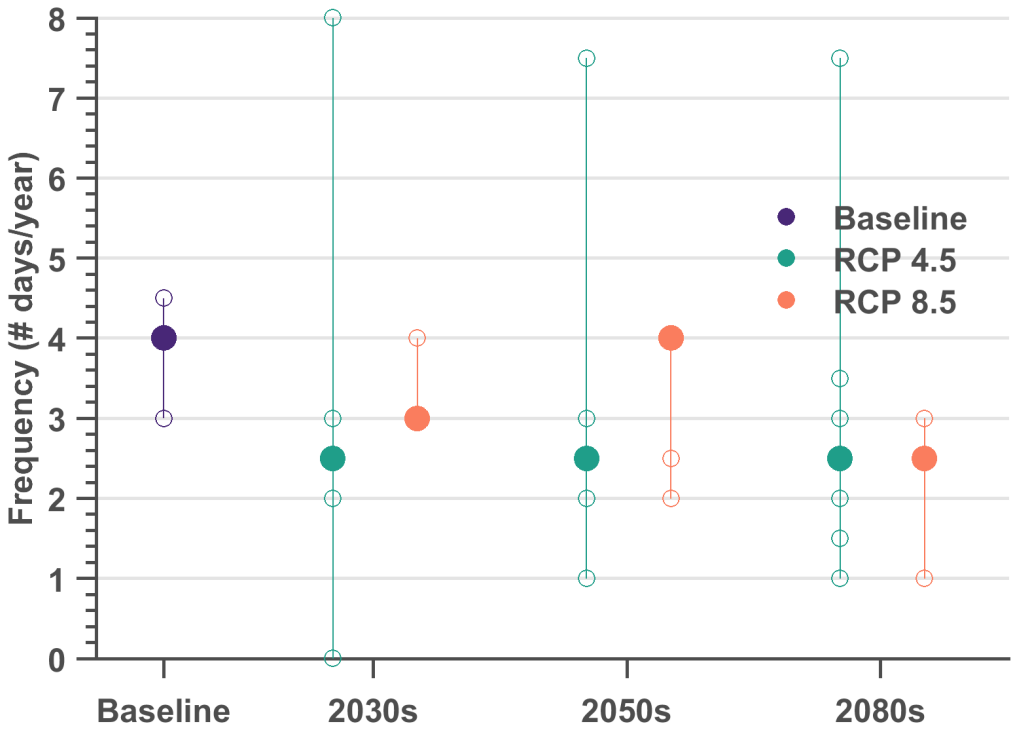


Figure F5.10: Number of Days Wind > 20 km/hr and Snow > 1 cm.

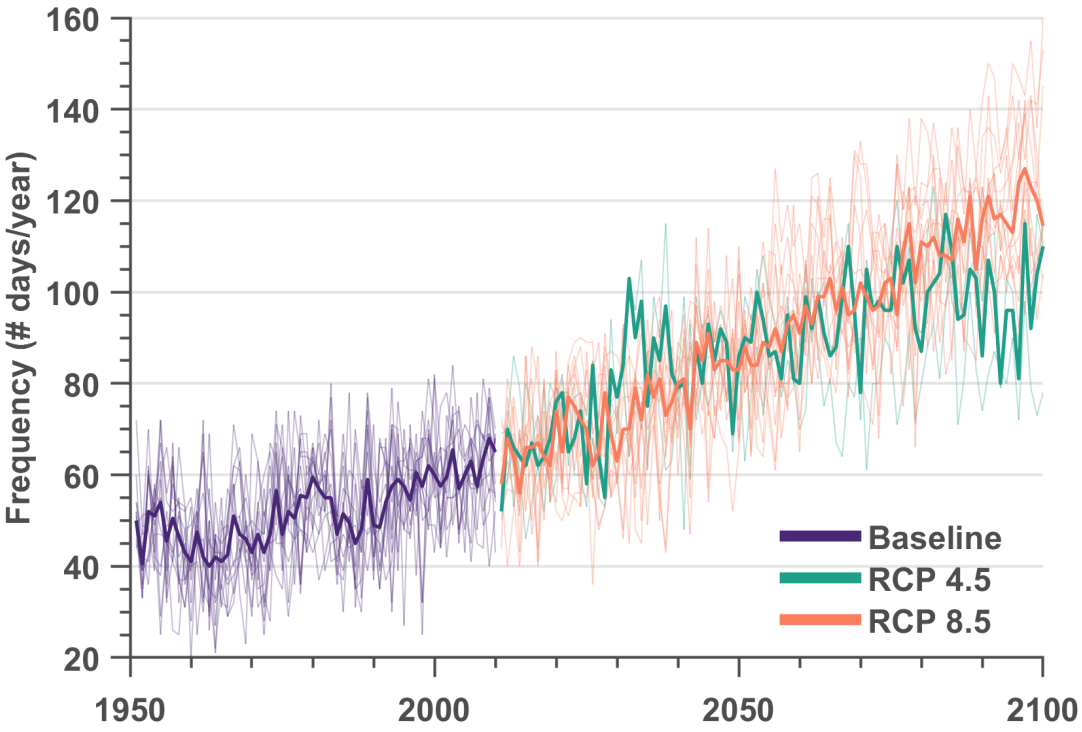


Figure F5.11: Number of Days Humidex > 30.

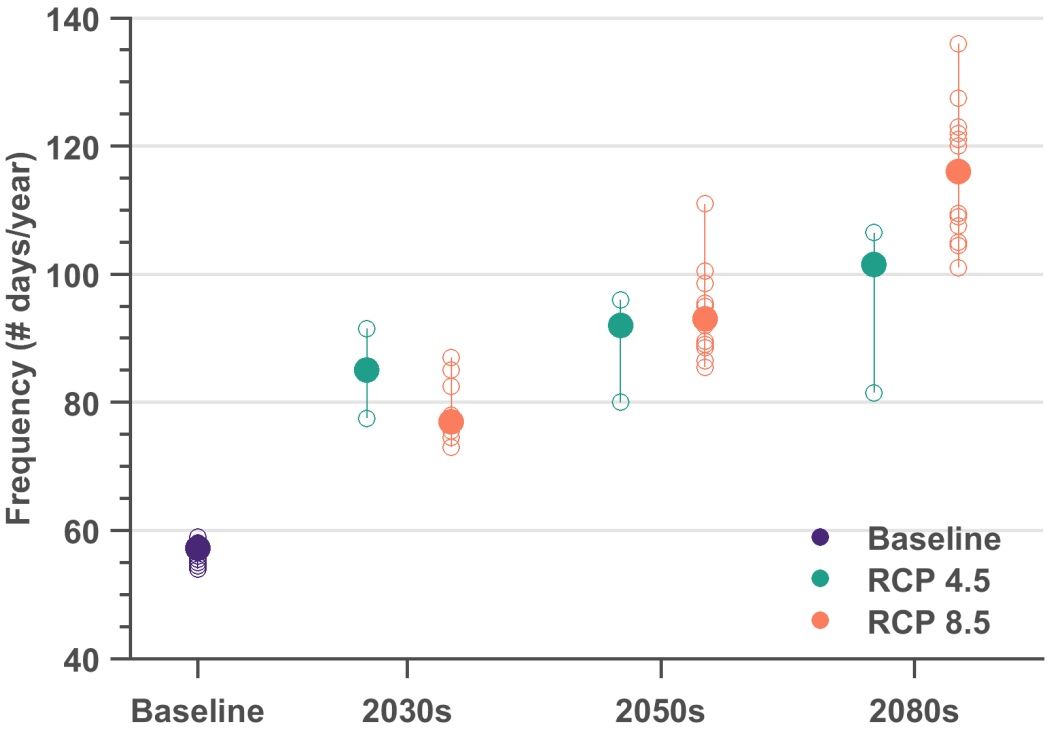


Figure F5.12: Number of Days Humidex > 30.

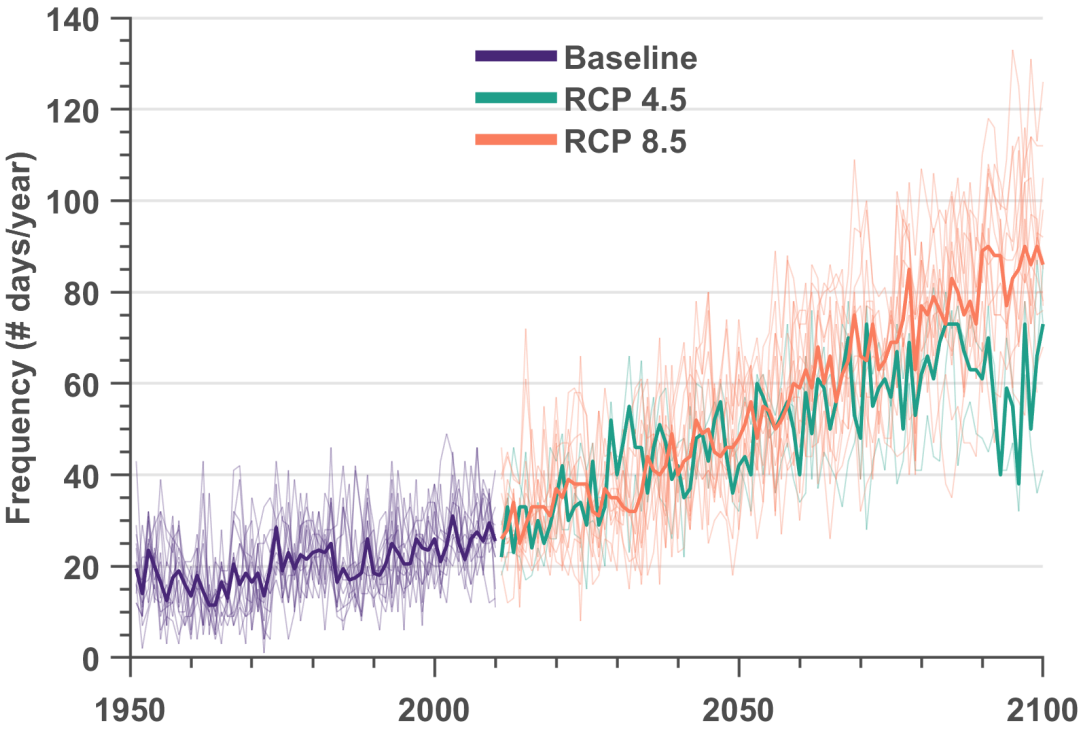


Figure F5.13: Number of Days Humidex > 35.

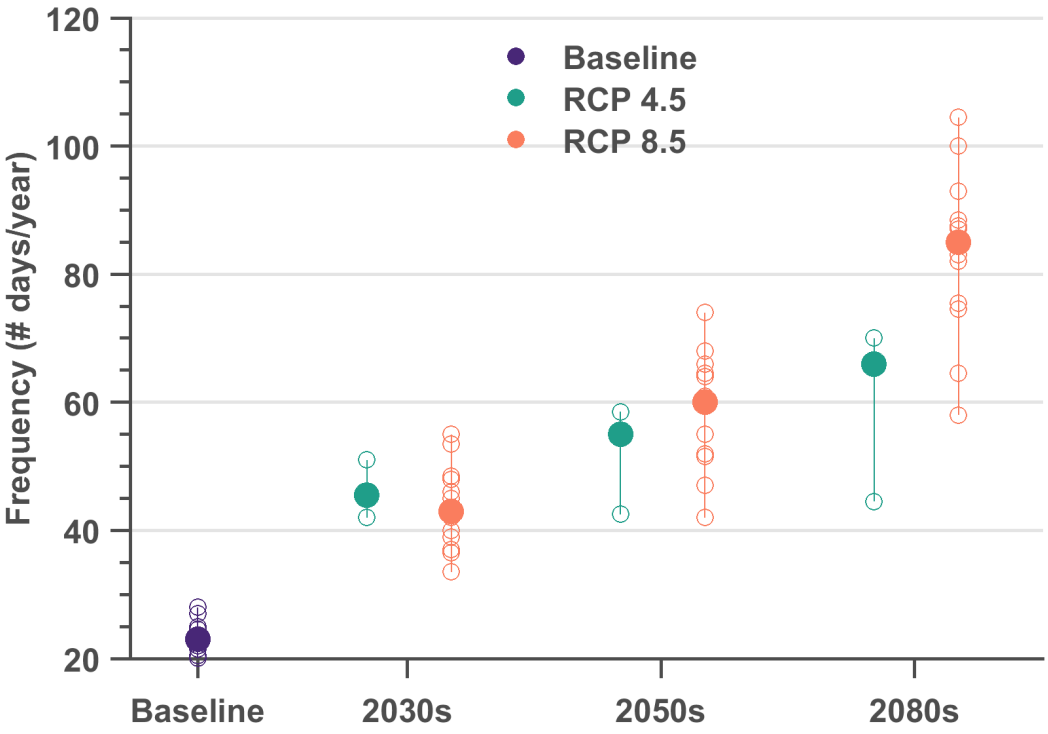


Figure F5.14: Number of Days Humidex > 35.

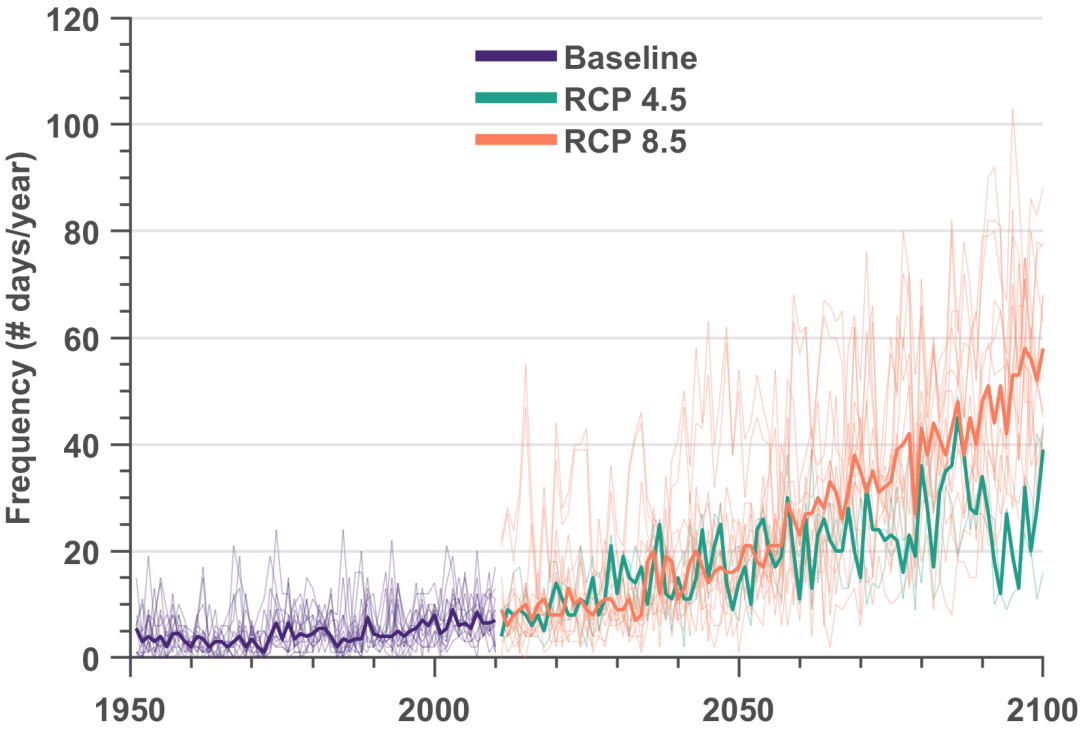


Figure F5.15: Number of Days Humidex > 40.

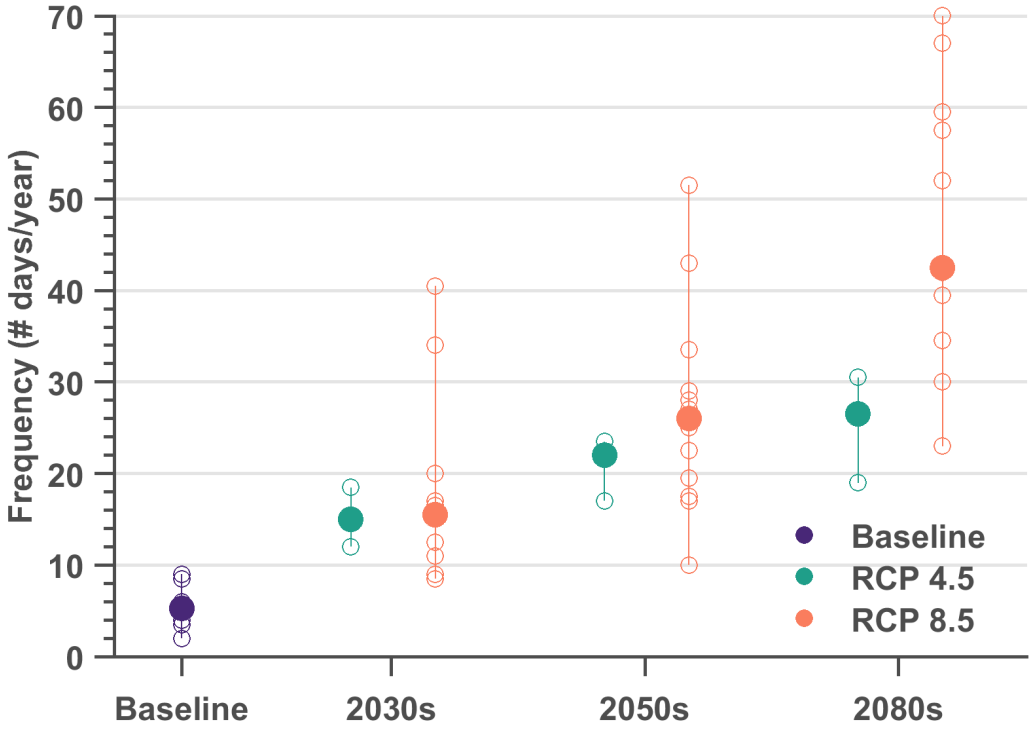


Figure F5.16: Number of Days Humidex > 40.

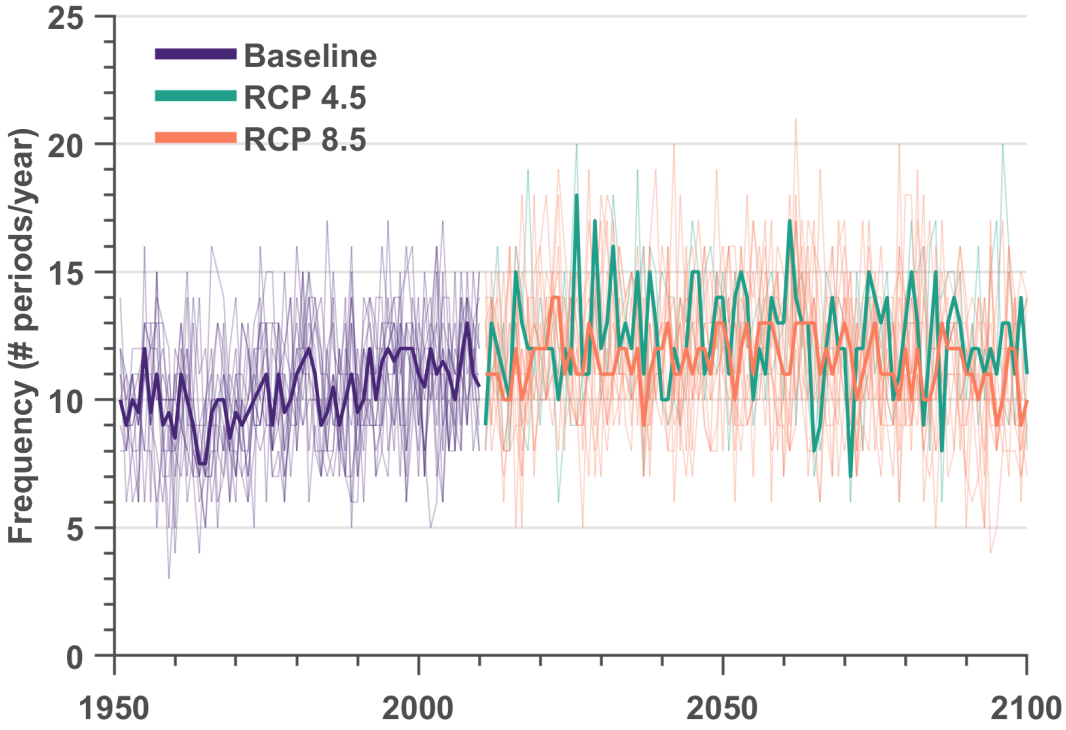


Figure F5.17: Number of Periods Humidex > 30 for 2 Days.

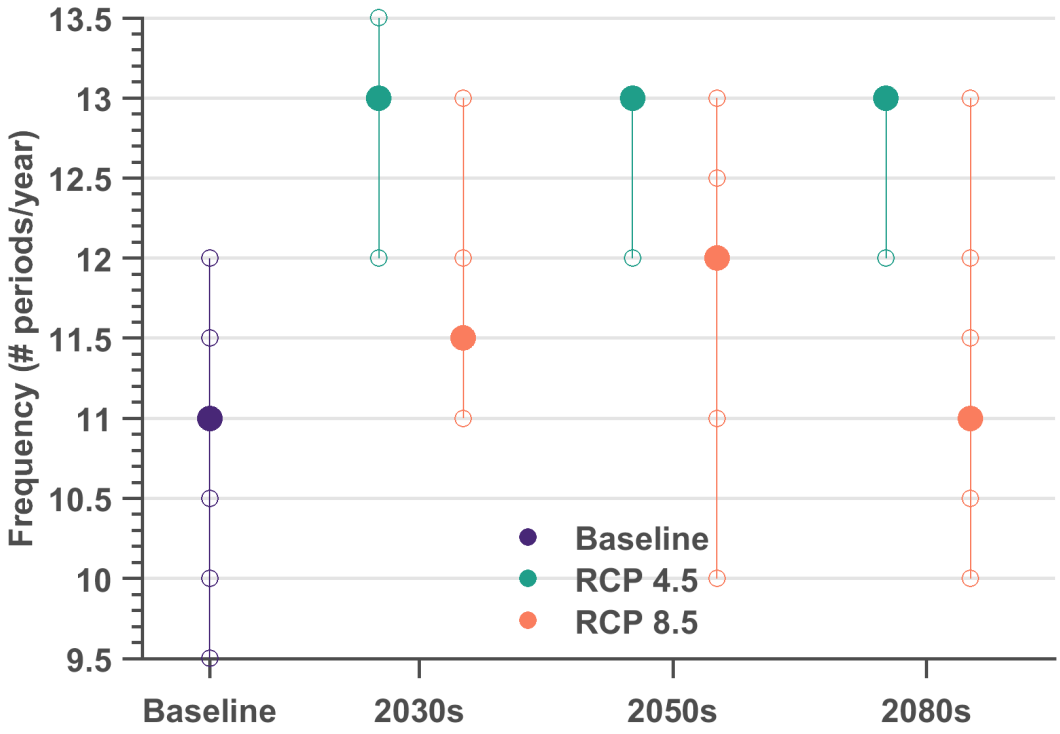


Figure F5.18: Number of Periods Humidex > 30 for 2 Days.

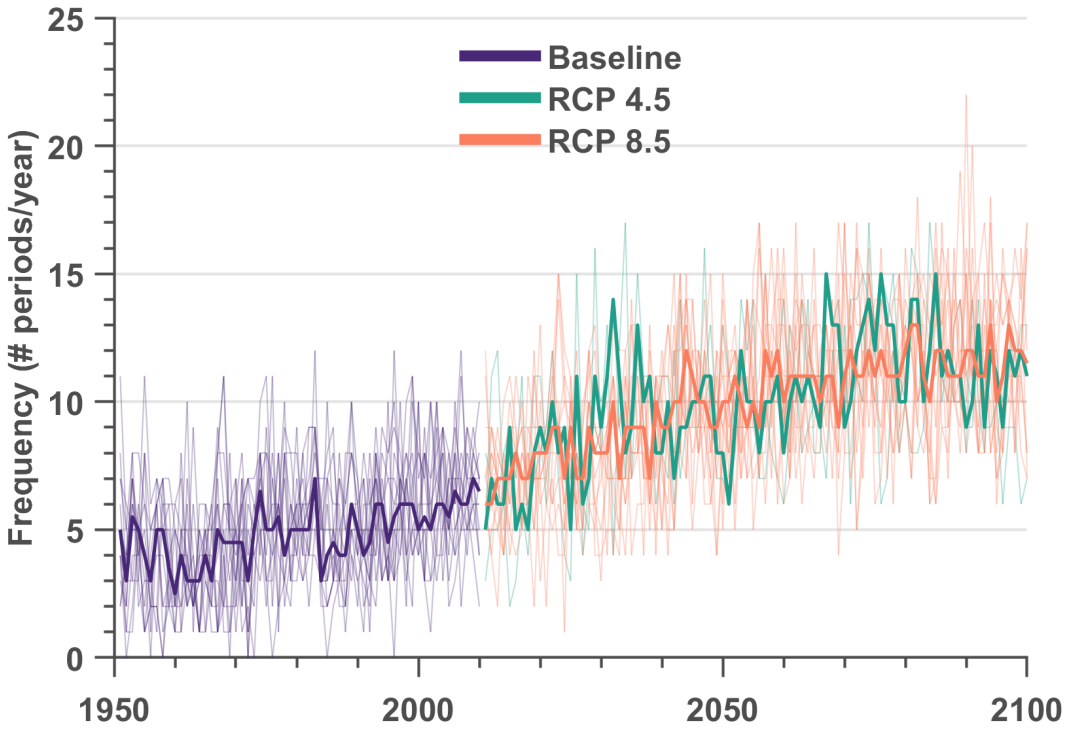


Figure F5.19: Number of Periods Humidex > 35 for 2 Days.

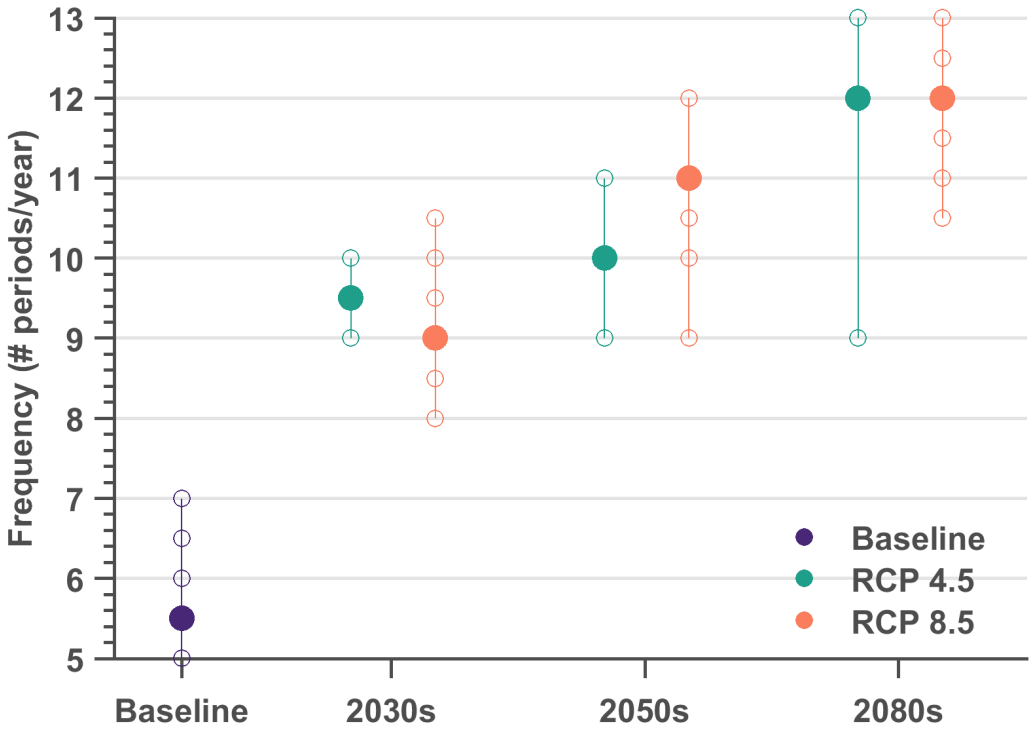


Figure F5.20: Number of Periods Humidex > 35 for 2 Days.

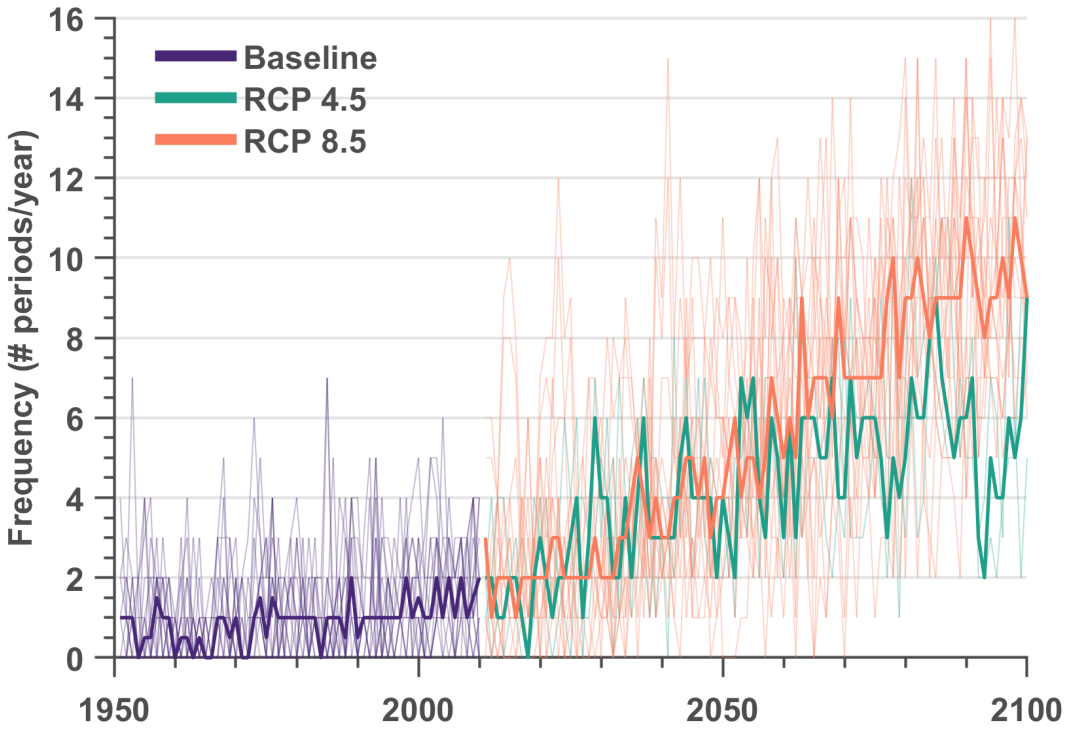


Figure F5.21: Number of Periods Humidex > 40 for 2 Days.

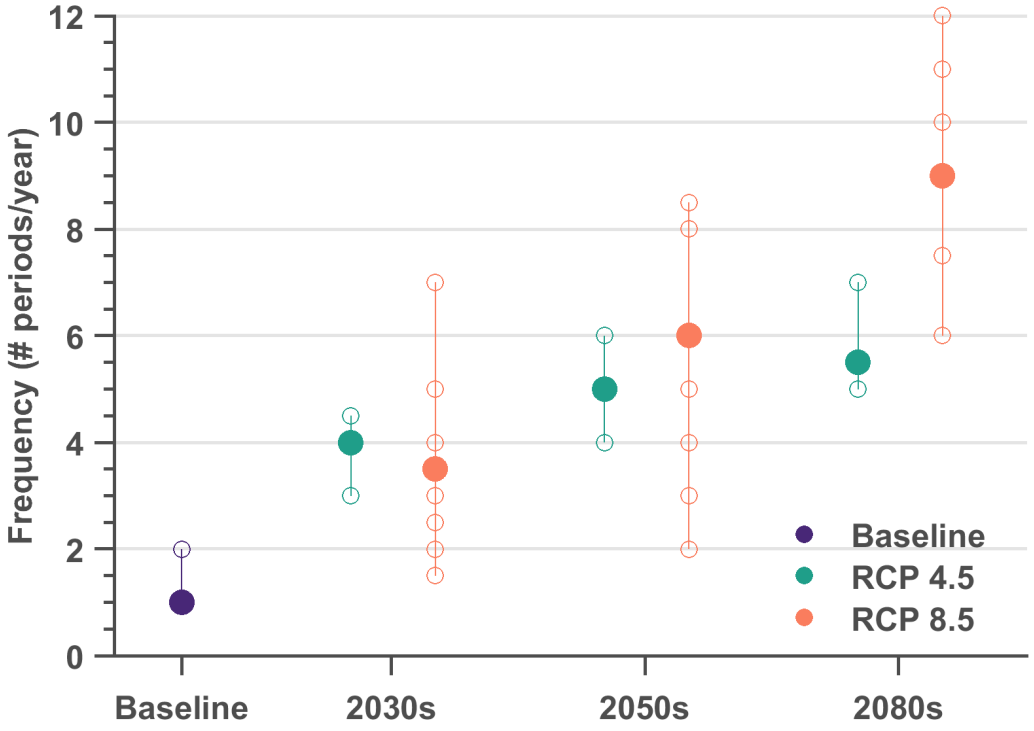


Figure F5.22: Number of Periods Humidex > 40 for 2 Days.

Appendix G - Table of Climate Indices

G1 Temperature

Table G.1: Median projections for temperature-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *).

Index	Baseline	2030s RCP 4.5	2030s RCP 8.5	2050s RCP 4.5	2050s RCP 8.5	2080s RCP 4.5	2080s RCP 8.5
Warmest Temperature of the Year [°C]	33.5 (32.9-34.3)	35.3 (34.0-36.6)	35.6 (34.1-36.7)	36.2 (34.3-37.4)	37.1 (35.3-38.8)	36.7 (35.2-38.8)	39.7 (37.7-41.9)
Coldest Temperature of the Year [°C]	-31.4 (-32.4–29.8)	-28.5 (-30.7–25.6)	-28.3 (-30.1–25.6)	-26.9 (-29.0–22.6)	-25.5 (-27.4–21.9)	-25.4 (-28.0–21.4)	-20.3 (-24.5–16.5)
Warmest Monthly Temperature (January) [°C]	4.4 (3.3-5.2)	5.5 (4.0-7.2)	5.3 (4.4-6.9)	6.3 (4.4-8.5)	6.7 (4.8-8.5)	6.2 (4.6-8.3)	8.8 (6.1-11.9)
Warmest Monthly Temperature (February) [°C]	5.4 (4.8-6.0)	6.2 (5.0-8.0)	7.1 (5.3-8.6)	7.0 (5.5-10.6)	8.3 (5.6-10.7)	7.5 (6.1-9.2)	10.4 (7.2-15.6)
Warmest Monthly Temperature (March) [°C]	11.9 (10.4-13.6)	13.6 (12.0-16.4)	14.2 (11.4-16.8)	14.4 (12.0-18.8)	15.7 (13.1-20.3)	15.4 (13.3-18.9)	17.2 (14.7-23.9)
Warmest Monthly Temperature (April) [°C]	22.3 (21.2-23.8)	23.9 (22.5-26.3)	24.0 (21.8-25.7)	24.9 (22.4-27.1)	25.5 (24.4-27.7)	25.4 (23.5-26.8)	27.7 (25.8-30.0)
Warmest Monthly Temperature (May) [°C]	28.3 (27.5-29.1)	29.9 (28.4-31.1)	29.8 (28.8-31.2)	29.9 (28.9-32.1)	31.5 (29.3-32.3)	31.2 (28.8-32.6)	33.2 (31.5-34.6)
Warmest Monthly Temperature (June) [°C]	31.4 (30.6-31.9)	32.7 (31.7-33.9)	33.0 (31.6-34.1)	33.3 (31.8-35.3)	34.5 (32.6-35.3)	33.7 (32.0-35.6)	36.8 (34.2-38.5)
Warmest Monthly Temperature (July) [°C]	32.7 (31.7-33.4)	34.4 (32.9-35.6)	34.7 (32.4-35.7)	35.2 (33.2-36.5)	36.4 (33.7-37.9)	35.7 (33.7-37.6)	38.7 (35.8-40.6)
Warmest Monthly Temperature (August) [°C]	31.5 (30.8-32.2)	33.4 (32.1-34.8)	33.7 (32.7-35.0)	34.2 (32.5-36.3)	35.5 (33.6-37.4)	34.9 (32.9-37.8)	37.8 (36.0-41.0)
Warmest Monthly Temperature (September) [°C]	28.5 (27.2-29.2)	30.6 (29.2-32.4)	30.9 (29.2-32.4)	31.2 (29.6-32.9)	32.3 (31.3-34.0)	31.9 (29.8-34.8)	34.9 (33.3-38.8)
Warmest Monthly Temperature (October) [°C]	23.2 (22.4-23.8)	25.2 (23.8-26.0)	25.4 (23.7-26.6)	25.8 (24.1-27.1)	26.8 (25.3-27.7)	25.9 (24.8-27.6)	28.7 (27.5-32.4)
Warmest Monthly Temperature (November) [°C]	15.4 (14.5-15.8)	17.4 (15.2-18.2)	17.2 (15.9-18.3)	17.6 (16.7-18.7)	18.0 (16.8-20.1)	18.1 (16.9-19.3)	20.0 (18.8-21.0)
Warmest Monthly Temperature (December) [°C]	7.8 (6.3-8.5)	9.0 (7.0-11.5)	9.3 (7.4-11.0)	10.0 (7.8-11.5)	10.4 (8.2-13.1)	10.3 (8.3-12.6)	13.3 (11.0-16.1)
Monthly Min. of Daily Max. Temperature (January) [°C]	-18.3 (-19.0–17.0)	-15.4 (-17.5–12.5)	-15.0 (-17.7–12.8)	-14.0 (-16.2–10.7)	-12.4 (-15.6–8.8)	-12.7 (-16.7–9.4)	-8.2 (-11.5–5.0)
Monthly Min. of Daily Max. Temperature (February) [°C]	-15.5 (-17.0–13.7)	-13.5 (-14.3–10.6)	-12.7 (-14.3–10.0)	-12.6 (-13.7–8.4)	-10.9 (-12.7–7.3)	-11.3 (-12.5–6.2)	-7.6 (-9.4–2.9)
Monthly Min. of Daily Max. Temperature (March) [°C]	-8.3 (-9.2–7.1)	-6.4 (-8.3–4.2)	-5.9 (-7.3–3.5)	-5.4 (-7.1–2.3)	-4.3 (-6.3–2.0)	-5.0 (-6.7–2.2)	-2.3 (-4.5-2.6)
Monthly Min. of Daily Max. Temperature (April) [°C]	1.7 (0.5-2.3)	3.3 (1.4-5.0)	3.0 (1.4-5.6)	3.9 (1.8-5.7)	4.3 (2.7-8.5)	4.4 (2.4-7.8)	6.4 (4.6-11.2)
Monthly Min. of Daily Max. Temperature (May) [°C]	9.6 (8.1-10.5)	11.0 (9.5-13.2)	10.9 (9.8-13.6)	11.3 (10.1-13.8)	12.1 (11.0-15.6)	11.8 (10.4-14.5)	14.3 (12.4-17.4)
Monthly Min. of Daily Max. Temperature (June) [°C]	15.7 (15.1-16.4)	17.2 (16.3-17.9)	17.3 (16.5-18.4)	18.1 (16.8-19.2)	18.6 (17.3-20.3)	18.3 (16.9-19.7)	20.7 (18.4-22.8)
Monthly Min. of Daily Max. Temperature (July) [°C]	20.3 (19.2-20.9)	21.7 (20.8-22.5)	22.1 (20.9-23.1)	22.5 (21.0-23.6)	23.9 (22.1-25.2)	23.4 (21.2-24.8)	26.2 (24.1-28.2)
Monthly Min. of Daily Max. Temperature (August) [°C]	18.3 (17.5-19.2)	19.9 (18.4-21.4)	20.1 (18.7-21.5)	20.7 (19.5-22.1)	22.0 (20.8-23.4)	21.7 (19.9-23.3)	24.5 (22.5-27.0)
Monthly Min. of Daily Max. Temperature (September) [°C]	11.7 (11.2-12.5)	13.9 (12.3-14.9)	14.0 (13.0-14.9)	14.7 (13.2-15.2)	15.2 (13.8-17.3)	15.5 (13.3-16.5)	17.6 (15.2-21.2)
Monthly Min. of Daily Max. Temperature (October) [°C]	4.5 (4.1-5.7)	6.2 (5.3-7.0)	6.4 (5.1-7.1)	6.5 (5.7-7.6)	7.6 (6.3-8.6)	7.4 (6.2-8.6)	9.2 (8.0-11.6)
Monthly Min. of Daily Max. Temperature (November) [°C]	-3.0 (-3.9–2.4)	-0.9 (-2.3-0.5)	-0.6 (-2.1-0.7)	-0.1 (-1.5-1.0)	1.0 (-0.6-2.0)	0.1 (-0.8-2.0)	3.0 (0.2-4.1)
Monthly Min. of Daily Max. Temperature (December) [°C]	-14.2 (-15.3–13.1)	-11.3 (-13.3–8.6)	-11.1 (-12.8–8.7)	-9.6 (-12.7–8.1)	-8.2 (-10.5–6.2)	-8.9 (-11.4–6.8)	-6.0 (-8.3–3.5)
Monthly Max. of Daily Min. Temperature (January) [°C]	-1.7 (-2.7–0.8)	-0.5 (-1.4-1.3)	-0.5 (-1.4-0.9)	-0.0 (-1.0-2.1)	0.3 (-1.0-2.0)	0.2 (-0.8-2.2)	2.1 (0.8-5.6)
Monthly Max. of Daily Min. Temperature (February) [°C]	-0.9 (-1.7–0.2)	-0.5 (-1.2-1.2)	0.3 (-0.6-1.2)	0.5 (-0.4-2.1)	1.0 (-0.1-3.4)	0.4 (-0.6-2.8)	2.8 (0.9-5.9)
Monthly Max. of Daily Min. Temperature (March) [°C]	1.7 (1.3-2.7)	3.3 (1.9-5.6)	3.5 (1.9-4.8)	3.5 (2.6-6.7)	5.1 (2.8-7.4)	4.3 (2.6-7.7)	6.3 (4.3-11.0)
Monthly Max. of Daily Min. Temperature (April) [°C]	8.3 (7.2-9.0)	9.8 (9.1-11.1)	10.3 (8.8-11.9)	11.0 (9.4-12.2)	11.6 (10.5-13.0)	11.4 (9.4-12.4)	13.6 (11.5-15.2)
Monthly Max. of Daily Min. Temperature (May) [°C]	14.9 (14.1-15.5)	16.3 (15.4-17.1)	16.6 (15.7-17.0)	16.6 (15.9-17.7)	17.5 (16.2-18.7)	17.3 (15.8-18.3)	19.6 (17.7-20.5)
Monthly Max. of Daily Min. Temperature (June) [°C]	18.7 (18.4-19.2)	20.0 (19.1-20.5)	20.3 (19.4-21.3)	20.5 (19.3-22.0)	21.4 (20.5-22.5)	21.2 (19.6-22.7)	23.1 (21.9-25.0)
Monthly Max. of Daily Min. Temperature (July) [°C]	20.6 (20.0-20.9)	21.8 (20.9-22.5)	22.1 (21.5-22.8)	22.4 (21.4-23.5)	23.4 (22.4-24.9)	22.8 (21.9-24.6)	25.1 (23.8-27.9)
Monthly Max. of Daily Min. Temperature (August) [°C]	20.0 (19.6-20.3)	21.2 (20.6-22.3)	21.6 (20.9-22.7)	22.0 (21.0-23.5)	23.0 (22.2-24.5)	22.3 (21.2-24.6)	24.9 (23.4-27.3)
Monthly Max. of Daily Min. Temperature (September) [°C]	17.5 (16.8-18.1)	19.2 (17.8-20.3)	19.3 (18.4-20.7)	19.5 (18.8-21.0)	20.8 (19.6-22.0)	20.4 (18.6-21.9)	22.9 (21.4-24.4)
Monthly Max. of Daily Min. Temperature (October) [°C]	11.6 (11.2-12.3)	13.3 (12.5-14.2)	13.6 (12.9-14.4)	13.7 (12.8-14.9)	14.8 (13.6-15.8)	14.3 (13.4-16.0)	16.9 (15.5-19.0)
Monthly Max. of Daily Min. Temperature (November) [°C]	6.6 (5.6-7.3)	8.2 (5.7-9.5)	8.3 (7.1-9.2)	8.7 (6.8-9.8)	9.4 (8.4-10.9)	9.1 (7.9-10.3)	11.5 (9.6-12.5)
Monthly Max. of Daily Min. Temperature (December) [°C]	0.9 (0.3-1.5)	2.1 (0.7-4.1)	2.6 (1.6-3.6)	3.0 (1.3-4.4)	3.4 (2.4-5.3)	3.7 (1.6-4.7)	5.9 (4.0-7.7)
Coldest Monthly Temperature (January) [°C]	-30.0 (-31.0–28.2)	-26.9 (-29.0–24.0)	-26.2 (-29.2–23.9)	-25.2 (-28.3–21.4)	-22.9 (-26.2–19.0)	-23.4 (-27.8–19.7)	-18.2 (-22.5–14.0)
Coldest Monthly Temperature (February) [°C]	-28.6 (-29.7–26.6)	-26.1 (-27.1–22.5)	-25.0 (-27.4–21.6)	-24.8 (-26.5–19.8)	-23.2 (-25.2–18.3)	-23.3 (-25.6–17.1)	-17.9 (-21.2–12.7)
Coldest Monthly Temperature (March) [°C]	-21.1 (-23.0–19.5)	-19.0 (-22.0–16.7)	-18.5 (-19.8–15.0)	-17.6 (-20.3–13.3)	-16.0 (-17.8–11.8)	-17.4 (-19.7–11.0)	-13.1 (-14.4–6.3)
Coldest Monthly Temperature (April) [°C]	-8.3 (-8.9–6.5)	-6.0 (-8.2–3.0)	-6.2 (-7.2–3.0)	-5.6 (-7.3–2.5)	-5.0 (-6.1–0.9)	-4.8 (-6.2–0.7)	-2.9 (-4.9-2.6)
Coldest Monthly Temperature (May) [°C]	-1.3 (-1.8–0.7)	0.0 (-1.1-1.7)	0.1 (-0.9-2.3)	0.2 (-0.9-3.1)	1.0 (-0.5-4.0)	0.4 (-0.6-4.2)	2.9 (1.2-6.4)
Coldest Monthly Temperature (June) [°C]	4.0 (3.5-4.6)	5.4 (4.6-6.5)	5.6 (4.7-6.6)	5.8 (4.7-7.1)	7.1 (5.6-8.1)	6.4 (5.4-8.1)	8.8 (6.8-11.2)
Coldest Monthly Temperature (July) [°C]	7.8 (7.3-8.5)	9.2 (8.2-10.4)	9.6 (8.0-10.9)	10.0 (8.6-11.2)	11.0 (9.6-13.0)	10.5 (8.5-12.3)	13.9 (10.9-15.3)
Coldest Monthly Temperature (August) [°C]	6.1 (5.6-6.7)	7.6 (6.6-9.0)	8.0 (7.1-9.0)	8.6 (7.3-10.0)	9.7 (8.3-11.0)	9.0 (7.5-11.1)	11.9 (9.9-14.4)
Coldest Monthly Temperature (September) [°C]	-0.1 (-0.8-1.0)	1.9 (0.7-2.8)	1.8 (1.1-3.1)	2.0 (1.1-3.1)	2.9 (2.1-4.6)	2.6 (1.5-4.8)	5.5 (3.6-8.1)
Coldest Monthly Temperature (October) [°C]	-4.8 (-5.6–3.6)	-3.6 (-4.5–2.3)	-3.2 (-4.4–1.6)	-2.7 (-4.0–1.3)	-2.1 (-3.4–0.5)	-2.2 (-3.7–0.6)	-0.0 (-2.2-1.4)
Coldest Monthly Temperature (November) [°C]	-11.6 (-12.8–10.2)	-8.8 (-10.3–7.0)	-8.7 (-10.7–6.6)	-8.1 (-10.6–7.0)	-7.2 (-9.0–5.1)	-7.4 (-10.4–6.1)	-4.8 (-9.3–1.8)
Coldest Monthly Temperature (December) [°C]	-25.5 (-26.4–24.0)	-21.0 (-24.3–18.8)	-21.2 (-23.5–18.8)	-19.8 (-23.4–17.7)	-17.7 (-20.7–15.7)	-18.9 (-22.1–15.3)	-14.7 (-17.0–11.0)
Number of Hot Days (Daily Max. Temp. >30 °C) [# Days]	11 (9-13)	25 (15-32)	28 (19-32)	32 (18-41)	43 (31-52)	36 (23-52)	72 (48-88)
Number of Tropical Nights (Daily. Min Temp. >20 °C) [# Days]	3 (2-3)	8 (4-12)	9 (7-13)	10 (6-20)	18 (13-26)	15 (9-26)	39 (26-60)
Number of Deep Freeze Events (Daily Min. Temp. < -10 °C) [# Days]	71 (69-75)	59 (50-65)	57 (50-66)	53 (43-63)	46 (35-53)	48 (35-59)	28 (15-39)
Number of Days Daily Max. Temperature >0 °C (Fall) [# Days]	87 (86-88)	90 (89-91)	89 (88-91)	90 (89-91)	91 (90-91)	90 (90-91)	91 (90-91)
Number of Days Daily Max. Temperature >0 °C (Winter) [# Days]	27 (24-30)	32 (28-42)	34 (29-40)	36 (30-46)	40 (36-50)	40 (32-53)	55 (44-69)
Number of Days Daily Max. Temperature >0 °C (Spring) [# Days]	82 (80-84)	84 (82-87)	84 (82-88)	85 (83-90)	86 (84-90)	86 (84-90)	89 (87-92)
Number of Days Daily Max. Temperature >0 °C (Summer) [# Days]	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)
Number of Days Daily Max. Temperature >5 °C (Fall) [# Days]	74 (73-76)	79 (76-81)	80 (76-83)	80 (78-84)	82 (79-87)	82 (80-86)	87 (84-89)
Number of Days Daily Max. Temperature >5 °C (Winter) [# Days]	5 (4-7)	7 (5-13)	8 (6-13)	10 (7-16)	11 (8-18)	11 (7-18)	21 (12-29)
Number of Days Daily Max. Temperature >5 °C (Spring) [# Days]	65 (63-66)	70 (65-74)	70 (65-78)	70 (67-77)	73 (68-81)	73 (69-81)	79 (74-87)
Number of Days Daily Max. Temperature >5 °C (Summer) [# Days]	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)
Number of Days Daily Max. Temperature >10 °C (Fall) [# Days]	58 (55-60)	64 (60-67)	65 (61-68)	65 (61-70)	68 (65-72)	68 (64-72)	74 (71-79)
Number of Days Daily Max. Temperature >10 °C (Winter) [# Days]	0 (0-0)	1 (0-3)	1 (0-2)	2 (1-3)	2 (1-4)	2 (1-4)	6 (3-9)
Number of Days Daily Max. Temperature >10 °C (Spring) [# Days]	48 (46-51)	53 (50-59)	53 (49-62)	55 (51-64)	57 (53-67)	58 (52-65)	64 (59-75)

Table G.1: Median projections for temperature-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *).

Index	Baseline	2030s RCP 4.5	2030s RCP 8.5	2050s RCP 4.5	2050s RCP 8.5	2080s RCP 4.5	2080s RCP 8.5
Number of Days Daily Max. Temperature >10 °C (Summer) [# Days]	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)
Number of Days Daily Max. Temperature >15 °C (Fall) [# Days]	39 (36-40)	46 (42-49)	47 (43-50)	48 (44-52)	51 (46-56)	51 (45-55)	59 (54-63)
Number of Days Daily Max. Temperature >15 °C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	1 (0-3)
Number of Days Daily Max. Temperature >15 °C (Spring) [# Days]	31 (28-33)	36 (34-42)	36 (32-45)	38 (35-48)	41 (37-55)	41 (36-51)	47 (42-65)
Number of Days Daily Max. Temperature >15 °C (Summer) [# Days]	92 (91-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)	92 (92-92)
Number of Days Daily Max. Temperature >20 °C (Fall) [# Days]	19 (18-21)	26 (23-30)	28 (25-31)	29 (24-33)	32 (28-37)	32 (25-37)	40 (36-47)
Number of Days Daily Max. Temperature >20 °C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature >20 °C (Spring) [# Days]	15 (13-17)	20 (18-23)	20 (17-23)	21 (19-28)	24 (21-30)	23 (20-28)	31 (25-45)
Number of Days Daily Max. Temperature >20 °C (Summer) [# Days]	83 (81-84)	87 (85-89)	88 (86-90)	89 (86-91)	90 (88-92)	89 (87-91)	92 (90-92)
Number of Days Daily Max. Temperature >25 °C (Fall) [# Days]	5 (3-6)	10 (7-13)	12 (8-14)	12 (8-14)	15 (11-19)	15 (10-19)	23 (19-31)
Number of Days Daily Max. Temperature >25 °C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature >25 °C (Spring) [# Days]	4 (3-5)	7 (5-10)	7 (5-9)	8 (6-12)	10 (7-14)	9 (6-13)	15 (10-21)
Number of Days Daily Max. Temperature >25 °C (Summer) [# Days]	50 (47-52)	65 (58-69)	67 (57-72)	71 (59-75)	76 (68-80)	74 (63-79)	85 (77-90)
Number of Days Daily Max. Temperature >35 °C (Fall) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-1)	1 (0-6)
Number of Days Daily Max. Temperature >35 °C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature >35 °C (Spring) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature >35 °C (Summer) [# Days]	0 (0-0)	1 (0-3)	1 (0-3)	2 (0-5)	4 (1-10)	3 (1-11)	16 (6-35)
Number of Days Daily Max. Temperature < -34 °C (Fall) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature < -34 °C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature < -34 °C (Spring) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature < -34 °C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature < -5 °C (Fall) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature < -5 °C (Winter) [# Days]	37 (34-39)	29 (20-34)	28 (22-34)	23 (16-31)	21 (13-27)	21 (10-30)	9 (2-17)
Number of Days Daily Max. Temperature < -5 °C (Spring) [# Days]	3 (2-3)	1 (0-2)	1 (0-2)	1 (0-2)	0 (0-1)	1 (0-2)	0 (0-0)
Number of Days Daily Max. Temperature < -5 °C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temperature < 0 °C (Fall) [# Days]	4 (3-5)	1 (0-2)	1 (0-3)	1 (0-2)	0 (0-1)	1 (0-1)	0 (0-1)
Number of Days Daily Max. Temperature < 0 °C (Winter) [# Days]	63 (60-66)	58 (46-62)	56 (49-61)	54 (44-60)	50 (40-54)	50 (37-59)	35 (21-46)
Number of Days Daily Max. Temperature < 0 °C (Spring) [# Days]	10 (8-12)	8 (5-10)	8 (4-10)	7 (2-9)	5 (2-8)	6 (2-8)	2 (0-5)
Number of Days Daily Max. Temperature < 0 °C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -34 °C (Fall) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -34 °C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -34 °C (Spring) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -34 °C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -28 °C (Fall) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -28 °C (Winter) [# Days]	4 (2-5)	1 (0-3)	1 (0-2)	1 (0-2)	0 (0-1)	0 (0-1)	0 (0-0)
Number of Days Daily Min. Temperature < -28 °C (Spring) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -28 °C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -20 °C (Fall) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -20 °C (Winter) [# Days]	22 (20-24)	13 (7-19)	12 (8-17)	10 (3-15)	6 (2-12)	7 (2-13)	1 (0-5)
Number of Days Daily Min. Temperature < -20 °C (Spring) [# Days]	1 (1-2)	0 (0-2)	0 (0-1)	0 (0-1)	0 (0-0)	0 (0-1)	0 (0-0)
Number of Days Daily Min. Temperature < -20 °C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -15 °C (Fall) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -15 °C (Winter) [# Days]	39 (36-41)	30 (22-36)	27 (23-33)	24 (16-31)	20 (11-26)	21 (12-30)	8 (2-15)
Number of Days Daily Min. Temperature < -15 °C (Spring) [# Days]	5 (3-6)	3 (2-5)	3 (1-4)	2 (0-4)	1 (0-2)	2 (0-3)	0 (0-1)
Number of Days Daily Min. Temperature < -15 °C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < -5 °C (Fall) [# Days]	8 (7-10)	5 (4-7)	5 (3-7)	4 (3-6)	3 (1-5)	3 (1-5)	1 (0-3)
Number of Days Daily Min. Temperature < -5 °C (Winter) [# Days]	75 (73-77)	70 (65-74)	69 (64-72)	66 (61-71)	63 (54-68)	63 (54-69)	50 (38-60)
Number of Days Daily Min. Temperature < -5 °C (Spring) [# Days]	23 (20-24)	19 (15-21)	18 (13-21)	18 (10-20)	15 (7-18)	16 (9-19)	9 (2-14)
Number of Days Daily Min. Temperature < -5 °C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Min. Temperature < 0 °C (Fall) [# Days]	29 (27-31)	21 (18-26)	19 (16-25)	18 (15-23)	15 (10-20)	17 (12-22)	8 (4-14)
Number of Days Daily Min. Temperature < 0 °C (Winter) [# Days]	87 (86-88)	85 (82-87)	84 (82-86)	83 (80-86)	82 (77-84)	82 (76-85)	74 (67-80)
Number of Days Daily Min. Temperature < 0 °C (Spring) [# Days]	45 (42-48)	39 (31-44)	39 (29-43)	38 (28-43)	33 (22-40)	33 (24-40)	26 (13-33)
Number of Days Daily Min. Temperature < 0 °C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between -20 and -10°C (Fall) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between -20 and -10°C (Winter) [# Days]	16 (14-18)	10 (5-14)	9 (6-13)	6 (2-11)	5 (1-9)	6 (1-10)	1 (0-3)
Number of Days Daily Max. Temp. is between -20 and -10°C (Spring) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between -20 and -10°C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between -10 and 0°C (Fall) [# Days]	4 (3-5)	1 (0-2)	1 (0-3)	1 (0-2)	0 (0-1)	1 (0-1)	0 (0-1)
Number of Days Daily Max. Temp. is between -10 and 0°C (Winter) [# Days]	45 (44-47)	46 (40-50)	45 (41-49)	44 (39-49)	43 (36-48)	44 (35-49)	33 (21-44)
Number of Days Daily Max. Temp. is between -10 and 0°C (Spring) [# Days]	10 (8-12)	8 (5-9)	8 (4-10)	7 (2-9)	5 (2-8)	6 (2-8)	2 (0-5)
Number of Days Daily Max. Temp. is between -10 and 0°C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between 0 and 5°C (Fall) [# Days]	12 (10-13)	10 (8-12)	10 (7-11)	9 (6-12)	8 (4-10)	8 (5-10)	4 (2-6)
Number of Days Daily Max. Temp. is between 0 and 5°C (Winter) [# Days]	21 (19-24)	24 (21-32)	24 (22-31)	26 (22-33)	28 (23-37)	28 (22-35)	31 (26-40)
Number of Days Daily Max. Temp. is between 0 and 5°C (Spring) [# Days]	16 (14-17)	14 (10-17)	14 (9-17)	13 (9-17)	12 (8-16)	12 (8-15)	9 (5-13)
Number of Days Daily Max. Temp. is between 0 and 5°C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)

Table G.1: Median projections for temperature-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *).

Index	Baseline	2030s RCP 4.5	2030s RCP 8.5	2050s RCP 4.5	2050s RCP 8.5	2080s RCP 4.5	2080s RCP 8.5
Number of Days Daily Max. Temp. is between 4 and 10°C (Fall) [# Days]	19 (17-21)	17 (15-20)	17 (16-18)	17 (14-19)	16 (13-19)	16 (13-19)	12 (10-16)
Number of Days Daily Max. Temp. is between 4 and 10°C (Winter) [# Days]	7 (5-8)	9 (8-14)	10 (8-14)	11 (9-18)	14 (9-19)	13 (9-20)	21 (13-31)
Number of Days Daily Max. Temp. is between 4 and 10°C (Spring) [# Days]	20 (18-21)	19 (16-21)	19 (16-21)	18 (15-21)	18 (12-20)	18 (13-20)	17 (11-20)
Number of Days Daily Max. Temp. is between 4 and 10°C (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between 10 and 15°C (Fall) [# Days]	19 (18-20)	18 (15-19)	17 (15-20)	18 (15-20)	17 (14-19)	18 (15-20)	16 (12-18)
Number of Days Daily Max. Temp. is between 10 and 15°C (Winter) [# Days]	0 (0-0)	1 (0-2)	1 (0-2)	2 (1-3)	2 (1-4)	2 (1-4)	4 (2-8)
Number of Days Daily Max. Temp. is between 10 and 15°C (Spring) [# Days]	17 (16-18)	16 (14-18)	16 (15-19)	16 (13-19)	17 (13-19)	16 (13-19)	15 (12-20)
Number of Days Daily Max. Temp. is between 10 and 15°C (Summer) [# Days]	0 (0-1)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between 15 and 20°C (Fall) [# Days]	19 (17-20)	19 (17-21)	18 (16-20)	19 (17-20)	18 (17-20)	18 (16-20)	17 (14-20)
Number of Days Daily Max. Temp. is between 15 and 20°C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-3)
Number of Days Daily Max. Temp. is between 15 and 20°C (Spring) [# Days]	16 (14-17)	16 (15-21)	16 (14-21)	16 (15-21)	16 (15-23)	17 (15-23)	17 (15-20)
Number of Days Daily Max. Temp. is between 15 and 20°C (Summer) [# Days]	8 (7-10)	4 (3-6)	4 (2-6)	3 (1-5)	2 (0-3)	2 (1-4)	0 (0-2)
Number of Days Daily Max. Temp. is between 18 and 34°C (Fall) [# Days]	26 (25-28)	34 (31-37)	35 (32-37)	36 (33-40)	40 (36-43)	39 (33-43)	45 (41-52)
Number of Days Daily Max. Temp. is between 18 and 34°C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between 18 and 34°C (Spring) [# Days]	21 (18-22)	26 (24-32)	26 (23-31)	28 (24-36)	30 (26-42)	30 (26-39)	36 (31-51)
Number of Days Daily Max. Temp. is between 18 and 34°C (Summer) [# Days]	87 (86-88)	87 (84-89)	87 (83-88)	86 (81-88)	83 (76-87)	85 (74-87)	69 (49-79)
Number of Days Daily Max. Temp. is between 20 and 25°C (Fall) [# Days]	13 (12-15)	16 (14-17)	16 (14-18)	16 (15-18)	17 (15-19)	16 (15-19)	16 (15-19)
Number of Days Daily Max. Temp. is between 20 and 25°C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between 20 and 25°C (Spring) [# Days]	10 (9-11)	13 (11-15)	12 (11-16)	13 (12-17)	13 (12-18)	13 (11-18)	14 (13-24)
Number of Days Daily Max. Temp. is between 20 and 25°C (Summer) [# Days]	32 (30-34)	22 (19-29)	21 (17-27)	17 (14-26)	13 (10-21)	16 (11-25)	6 (2-13)
Number of Days Daily Max. Temp. is between 22 and 30°C (Fall) [# Days]	12 (11-13)	17 (15-20)	18 (16-21)	19 (16-21)	22 (18-25)	21 (16-24)	24 (20-28)
Number of Days Daily Max. Temp. is between 22 and 30°C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between 22 and 30°C (Spring) [# Days]	9 (8-10)	13 (11-15)	13 (11-15)	14 (11-17)	16 (13-19)	15 (13-18)	19 (16-27)
Number of Days Daily Max. Temp. is between 22 and 30°C (Summer) [# Days]	62 (59-64)	58 (55-64)	58 (53-63)	56 (49-62)	49 (43-57)	53 (42-59)	32 (19-46)
Number of Days Daily Max. Temp. is between 26 and 29°C (Fall) [# Days]	2 (2-3)	5 (3-6)	5 (4-7)	6 (3-7)	7 (5-9)	6 (4-9)	9 (8-11)
Number of Days Daily Max. Temp. is between 26 and 29°C (Winter) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of Days Daily Max. Temp. is between 26 and 29°C (Spring) [# Days]	2 (2-3)	3 (3-4)	3 (3-5)	4 (3-5)	4 (3-6)	4 (3-6)	6 (5-8)
Number of Days Daily Max. Temp. is between 26 and 29°C (Summer) [# Days]	24 (22-25)	26 (23-27)	26 (23-28)	26 (23-28)	24 (20-26)	25 (21-27)	16 (9-21)
Seasonal Temp. Range (Fall) [°C]	40.2 (39.1-41.3)	40.2 (38.3-41.4)	40.2 (37.9-41.5)	40.4 (38.0-41.8)	40.1 (37.0-43.2)	40.2 (37.9-43.0)	39.8 (37.6-45.1)
Seasonal Temp. Range (Winter) [°C]	40.6 (39.0-41.9)	38.4 (36.2-41.1)	38.6 (36.0-40.3)	38.4 (35.2-39.3)	36.8 (33.9-39.2)	37.2 (33.8-39.4)	34.4 (32.3-36.4)
Seasonal Temp. Range (Spring) [°C]	49.6 (48.0-50.8)	48.9 (46.1-51.1)	48.3 (45.9-50.9)	48.1 (44.1-49.9)	47.2 (43.8-49.5)	48.2 (43.7-50.4)	45.7 (39.6-47.8)
Seasonal Temp. Range (Summer) [°C]	29.7 (28.8-30.7)	29.8 (28.9-31.6)	30.0 (28.8-31.7)	30.1 (29.0-32.2)	30.1 (28.7-33.1)	30.5 (29.4-32.3)	30.9 (28.5-33.4)
Annual Average Temperature [°C]	6.1 (5.7-6.3)	7.5 (7.1-8.6)	7.9 (7.2-9.0)	8.2 (7.5-9.6)	9.3 (8.5-11.0)	8.8 (7.6-10.7)	11.4 (10.3-13.7)
Seasonal Average Temperature (Fall) [°C]	8.2 (7.8-8.4)	9.9 (9.2-10.6)	10.2 (9.3-10.9)	10.5 (9.7-11.2)	11.5 (10.5-12.4)	11.0 (9.9-12.3)	13.6 (12.3-15.5)
Seasonal Average Temperature (Winter) [°C]	-8.9 (-9.5–8.2)	-6.8 (-8.2–5.5)	-6.6 (-7.8–5.5)	-5.8 (-7.4–4.2)	-4.7 (-6.2–3.5)	-5.2 (-6.9–3.1)	-2.4 (-4.3–0.1)
Seasonal Average Temperature (Spring) [°C]	5.2 (4.6-5.6)	6.4 (5.9-8.2)	6.7 (5.7-8.1)	6.8 (6.4-9.2)	7.9 (7.0-10.5)	7.5 (6.5-10.0)	9.6 (8.8-13.2)
Seasonal Average Temperature (Summer) [°C]	19.2 (19.0-19.4)	20.7 (19.8-21.4)	21.1 (20.1-21.7)	21.6 (20.4-22.5)	22.5 (21.4-23.5)	22.1 (20.6-23.4)	24.8 (22.9-26.7)
Monthly Average Temperature (January) [°C]	-10.8 (-11.6–10.4)	-8.3 (-10.6–6.4)	-8.3 (-10.2–7.0)	-7.6 (-9.3–5.4)	-6.7 (-8.6–4.6)	-6.9 (-9.5–4.5)	-3.7 (-6.0–1.6)
Monthly Average Temperature (February) [°C]	-9.3 (-9.9–8.6)	-7.6 (-9.0–6.1)	-7.0 (-8.5–5.8)	-7.1 (-7.9–4.3)	-5.5 (-7.1–3.7)	-6.1 (-7.4–3.9)	-3.1 (-5.2–0.7)
Monthly Average Temperature (March) [°C]	-2.9 (-3.7–2.2)	-1.5 (-2.5-0.1)	-1.0 (-2.9-0.8)	-0.8 (-1.8-1.7)	0.0 (-1.0-2.6)	-0.3 (-1.5-2.6)	1.8 (0.9-6.1)
Monthly Average Temperature (April) [°C]	5.5 (4.9-6.2)	7.1 (5.9-8.7)	6.8 (5.8-9.2)	7.5 (6.3-10.4)	8.4 (6.7-11.7)	8.1 (6.9-10.5)	9.9 (8.6-13.7)
Monthly Average Temperature (May) [°C]	12.3 (12.0-13.1)	13.9 (13.4-14.8)	14.0 (13.1-15.4)	14.3 (13.5-15.7)	15.2 (14.5-16.8)	15.0 (13.7-16.3)	17.4 (16.1-19.0)
Monthly Average Temperature (June) [°C]	17.6 (17.2-18.3)	19.0 (18.3-19.8)	19.4 (18.7-20.3)	19.9 (18.9-21.0)	20.8 (19.9-21.9)	20.4 (19.1-21.3)	22.7 (20.8-24.1)
Monthly Average Temperature (July) [°C]	20.5 (20.1-20.9)	22.0 (21.1-22.8)	22.5 (21.4-23.1)	22.9 (21.3-23.8)	23.8 (22.5-25.0)	23.4 (21.8-25.1)	26.1 (24.0-28.9)
Monthly Average Temperature (August) [°C]	19.3 (18.9-19.6)	21.1 (20.3-22.0)	21.2 (20.6-22.0)	21.9 (20.9-22.9)	23.1 (21.6-24.0)	22.5 (21.0-24.2)	25.5 (23.6-28.9)
Monthly Average Temperature (September) [°C]	14.6 (14.2-15.0)	16.4 (15.5-17.5)	16.8 (16.0-17.6)	17.0 (16.1-18.1)	18.0 (16.9-19.1)	17.9 (16.1-19.1)	20.5 (19.3-22.5)
Monthly Average Temperature (October) [°C]	8.3 (7.7-8.8)	9.9 (9.0-10.6)	10.2 (9.3-11.3)	10.2 (9.4-11.4)	11.7 (10.3-12.6)	11.0 (9.6-12.3)	13.4 (12.2-15.8)
Monthly Average Temperature (November) [°C]	1.6 (1.2-1.9)	3.5 (2.2-4.2)	3.7 (2.6-4.2)	4.0 (3.1-4.8)	4.7 (3.7-6.0)	4.6 (3.3-5.2)	6.9 (5.3-8.1)
Monthly Average Temperature (December) [°C]	-6.4 (-6.9–5.5)	-4.3 (-5.8–3.1)	-4.7 (-5.4–3.0)	-3.4 (-4.9–2.8)	-2.5 (-3.7–1.2)	-2.9 (-4.9–1.0)	-0.3 (-2.7-1.7)
Growing Season Length [# Days]	200 (195-205)	212 (205-221)	214 (204-224)	218 (208-229)	223 (216-240)	224 (214-239)	242 (228-259)
Frost Season Length [# Days]	124 (121-127)	113 (102-120)	111 (98-118)	106 (89-114)	98 (85-106)	101 (80-110)	78 (48-92)
Potato Growing Season Length [# Days]	116 (113-119)	120 (113-125)	117 (110-129)	120 (110-124)	115 (104-127)	117 (106-129)	109 (92-131)
Corn Heat Units [Units]	3110 (3020-3170)	3540 (3330-3840)	3595 (3430-3920)	3705 (3440-4120)	3955 (3735-4450)	3825 (3470-4340)	4510 (4270-5280)
Timing of Tulip Emergence [Day]	108 (104-111)	102 (92-106)	99 (92-108)	99 (85-104)	93 (84-101)	95 (82-102)	83 (63-93)
Timing of Tulip Blooming [Day]	130 (128-132)	124 (118-128)	124 (116-129)	122 (113-127)	118 (106-124)	119 (111-125)	112 (94-118)
Timing of First Fall Frost [Day]	273 (269-279)	285 (277-291)	287 (279-296)	288 (280-296)	293 (288-303)	290 (283-302)	306 (294-320)
Timing of Last Spring Frost [Day]	126 (122-130)	118 (106-125)	118 (106-124)	117 (101-126)	111 (94-120)	115 (94-123)	101 (84-113)
Timing of Warmest Month [Month]	July	July	July	July	July	July	July
Timing of Coldest Month [Month]	January	January	January	January	January	January	January
Winter Melting Episode [# Days]	1 (1-1)	2 (1-2)	2 (2-2)	2 (1-3)	3 (2-3)	3 (2-4)	4 (3-5)
Annual Freeze-Thaw Cycles [# Days]	82 (78-86)	79 (68-83)	78 (66-83)	77 (66-84)	75 (62-82)	75 (64-82)	68 (55-76)
Seasonal Freeze-Thaw Cycles (Fall) [# Days]	24 (22-27)	19 (15-23)	18 (15-22)	17 (13-21)	14 (10-19)	16 (11-20)	8 (4-12)
Seasonal Freeze-Thaw Cycles (Winter) [# Days]	24 (21-26)	28 (24-35)	27 (24-33)	30 (25-38)	32 (27-40)	32 (26-40)	37 (30-44)
Seasonal Freeze-Thaw Cycles (Spring) [# Days]	34 (32-36)	30 (24-34)	30 (24-33)	30 (22-33)	27 (19-32)	27 (20-33)	23 (13-28)
Seasonal Freeze-Thaw Cycles (Summer) [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)

Table G.1: Median projections for temperature-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *).

Index	Baseline	2030s RCP 4.5	2030s RCP 8.5	2050s RCP 4.5	2050s RCP 8.5	2080s RCP 4.5	2080s RCP 8.5
Frequency of Warm Spells (3-day max T >32°C) [# Periods]	0 (0-0)	1 (0-2)	2 (1-2)	2 (1-3)	3 (2-5)	2 (1-4)	6 (3-6)
Frequency of Warm Spells (2-day max T >31 and min T >20°C) [# Periods]	0 (0-0)	1 (0-2)	1 (1-2)	1 (1-4)	3 (2-5)	2 (1-5)	6 (4-8)
Frequency of Warm Spells (1-day max T >31 and min T >20°C) [# Periods]	1 (0-2)	2 (1-4)	3 (2-5)	3 (3-7)	6 (4-8)	5 (3-8)	10 (8-12)
Frequency of Cold Spells [# Periods]	4 (4-5)	3 (1-4)	2 (1-3)	2 (0-3)	1 (0-2)	1 (0-2)	0 (0-1)
Heating Degree Days (17 °C) [°C Days]	4320 (4265-4440)	3905 (3585-4035)	3830 (3560-4045)	3720 (3295-3920)	3460 (3080-3685)	3570 (3115-3870)	2985 (2470-3270)
Heating Degree Days (18 °C) [°C Days]	4610 (4560-4735)	4170 (3835-4310)	4100 (3810-4315)	3990 (3540-4190)	3710 (3310-3940)	3825 (3350-4140)	3215 (2690-3500)
Freezing Degree Days [°C Days]	995 (955-1050)	785 (650-885)	725 (635-865)	675 (535-805)	580 (455-710)	620 (440-780)	355 (215-505)
Above Freezing Degree Days [°C Days]	3180 (3090-3250)	3565 (3440-3770)	3640 (3465-3905)	3740 (3500-4055)	3995 (3740-4405)	3920 (3545-4300)	4530 (4285-5190)
Cooling Degree Days (18 °C) [°C Days]	230 (205-245)	360 (280-440)	385 (320-455)	425 (320-525)	525 (450-645)	500 (335-650)	815 (615-1040)
Winter Melting Days [°C Days]	20 (15-25)	35 (25-50)	35 (25-55)	45 (30-70)	60 (40-80)	55 (35-95)	105 (65-160)
January 2.5% Design Temp. Approximation [°C]	-23.3 (-24.5–21.8)	-21.0 (-22.8–17.6)	-20.0 (-22.6–18.2)	-18.9 (-21.3–14.8)	-17.1 (-20.1–13.0)	-17.4 (-21.5–14.6)	-12.5 (-16.5–9.4)
July 2.5% Design Temp. Approximation [°C]	25.6 (25.2-26.6)	27.1 (26.5-28.0)	27.3 (26.8-28.9)	27.9 (26.8-29.2)	28.8 (27.7-30.6)	28.2 (27.2-30.4)	30.9 (29.4-33.8)

G2 Precipitation

Table G.2: Median projections for precipitation-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *).

Index	Baseline	2030s RCP 4.5	2030s RCP 8.5	2050s RCP 4.5	2050s RCP 8.5	2080s RCP 4.5	2080s RCP 8.5
Annual Total Precip. [mm]	921 (901-945)	949 (905-1000)	968 (925-1005)	979 (932-1039)	993 (943-1028)	983 (914-1056)	1028 (945-1072)
Monthly Total Precip (January) [mm]	67 (60-74)	73 (65-85)	71 (64-80)	77 (64-83)	76 (68-83)	73 (63-87)	80 (71-94)
Monthly Total Precip (February) [mm]	58 (51-61)	62 (50-68)	64 (58-77)	64 (59-70)	68 (57-77)	69 (59-79)	72 (58-83)
Monthly Total Precip (March) [mm]	61 (56-69)	65 (59-73)	63 (55-80)	68 (53-83)	73 (62-84)	68 (59-83)	79 (60-96)
Monthly Total Precip (April) [mm]	67 (61-77)	75 (61-83)	73 (66-85)	76 (63-94)	81 (73-99)	78 (63-92)	88 (74-101)
Monthly Total Precip (May) [mm]	77 (67-84)	77 (67-87)	81 (71-90)	81 (64-92)	78 (69-89)	81 (67-91)	85 (69-95)
Monthly Total Precip (June) [mm]	79 (74-89)	84 (70-99)	77 (69-100)	77 (66-102)	80 (65-98)	80 (66-94)	79 (69-104)
Monthly Total Precip (July) [mm]	78 (69-84)	81 (69-87)	76 (66-88)	79 (68-90)	72 (61-83)	78 (69-87)	77 (59-90)
Monthly Total Precip (August) [mm]	76 (69-83)	73 (65-87)	77 (66-87)	75 (59-84)	76 (57-93)	77 (56-86)	75 (54-84)
Monthly Total Precip (September) [mm]	84 (77-93)	86 (72-99)	82 (68-96)	87 (74-102)	87 (71-100)	83 (68-94)	82 (57-96)
Monthly Total Precip (October) [mm]	77 (68-85)	74 (66-85)	78 (67-91)	80 (68-94)	78 (67-93)	75 (64-90)	82 (64-98)
Monthly Total Precip (November) [mm]	82 (72-88)	84 (73-99)	84 (72-102)	86 (77-101)	88 (73-102)	90 (75-102)	96 (78-109)
Monthly Total Precip (December) [mm]	73 (69-82)	80 (68-95)	80 (71-91)	81 (73-100)	86 (77-99)	82 (74-99)	93 (83-112)
1 in 2 Year 1-day Precip. [mm]	37 (35-39)	39 (35-40)	39 (37-44)	40 (36-42)	41 (38-46)	41 (37-43)	44 (39-46)
1 in 5 Year 1-day Precip. [mm]	47 (44-51)	49 (45-53)	50 (47-57)	52 (45-55)	53 (50-61)	52 (48-59)	55 (50-62)
1 in 20 Year 1-day Precip. [mm]	66 (58-73)	69 (59-80)	69 (63-94)	70 (61-79)	75 (70-93)	72 (64-85)	78 (68-95)
1 in 50 Year 1-day Precip. [mm]	79 (68-95)	85 (69-108)	83 (73-130)	84 (71-102)	95 (83-120)	91 (76-120)	97 (77-136)
1 in 100 Year 1-day Precip. [mm]	92 (77-116)	102 (77-137)	99 (81-169)	97 (80-126)	113 (93-145)	109 (87-159)	118 (85-185)
1 in 350 Year 1-day Precip. [mm]	122 (98-172)	150 (91-216)	128 (99-286)	123 (95-184)	159 (114-225)	153 (111-283)	154 (102-318)
1 in 2 Year 2-day Precip. [mm]	49 (47-52)	52 (48-55)	52 (48-58)	53 (50-56)	54 (52-62)	53 (50-58)	58 (53-62)
1 in 5 Year 2-day Precip. [mm]	63 (58-67)	65 (61-71)	65 (61-72)	67 (62-73)	69 (64-80)	68 (64-73)	72 (67-82)
1 in 20 Year 2-day Precip. [mm]	84 (73-94)	89 (78-105)	86 (79-97)	89 (80-99)	97 (83-111)	93 (85-106)	95 (84-117)
1 in 50 Year 2-day Precip. [mm]	99 (84-122)	105 (92-138)	101 (91-120)	104 (92-131)	117 (97-136)	115 (96-135)	115 (95-148)
1 in 100 Year 2-day Precip. [mm]	112 (93-149)	121 (101-173)	116 (98-143)	113 (100-158)	136 (109-166)	135 (106-161)	132 (102-176)
1 in 350 Year 2-day Precip. [mm]	140 (110-219)	164 (116-259)	152 (110-202)	141 (117-231)	178 (134-247)	183 (128-221)	170 (116-259)
1 in 2 Year 5-day Precip. [mm]	63 (61-67)	66 (62-72)	68 (62-75)	69 (64-73)	71 (65-80)	70 (65-78)	75 (68-82)
1 in 5 Year 5-day Precip. [mm]	80 (73-85)	81 (78-95)	83 (77-94)	86 (80-89)	89 (81-101)	87 (82-97)	93 (83-102)
1 in 20 Year 5-day Precip. [mm]	100 (89-117)	110 (94-140)	108 (97-120)	109 (99-120)	115 (105-139)	111 (102-128)	121 (105-147)
1 in 50 Year 5-day Precip. [mm]	117 (100-144)	128 (103-178)	127 (108-142)	127 (108-149)	138 (121-175)	128 (114-164)	138 (113-180)
1 in 100 Year 5-day Precip. [mm]	129 (109-168)	145 (109-222)	141 (114-174)	141 (115-178)	159 (132-208)	142 (123-197)	152 (125-222)
1 in 350 Year 5-day Precip. [mm]	158 (123-224)	182 (119-339)	172 (124-259)	165 (131-249)	203 (161-287)	172 (137-279)	184 (139-326)
1 in 2 Year 1-Hour Precip. [mm]	19 (21-18)*	19 (19-18)*	23 (25-17)*	20 (20-16)*	23 (28-19)*	20 (26-16)*	27 (29-17)*
1 in 5 Year 1-Hour Precip. [mm]	26 (27-25)*	26 (30-25)*	28 (32-25)*	25 (28-25)*	29 (35-27)*	27 (33-22)*	33 (39-23)*
1 in 10 Year 1-Hour Precip. [mm]	31 (32-29)*	31 (40-30)*	36 (38-28)*	32 (33-29)*	34 (41-31)*	32 (37-26)*	38 (45-28)*
1 in 20 Year 1-Hour Precip. [mm]	35 (37-33)*	36 (53-36)*	41 (49-31)*	37 (44-32)*	39 (48-33)*	39 (41-30)*	40 (51-31)*
1 in 50 Year 1-Hour Precip. [mm]	40 (44-38)*	45 (74-42)*	46 (75-34)*	44 (67-35)*	44 (59-36)*	45 (51-36)*	43 (60-37)*
1 in 100 Year 1-Hour Precip. [mm]	44 (50-42)*	53 (95-46)*	50 (103-37)*	49 (93-38)*	47 (68-37)*	48 (64-41)*	44 (74-41)*
1 in 2 Year 3-Hour Precip. [mm]	37 (43-33)*	44 (45-42)*	40 (51-38)*	45 (46-37)*	45 (52-38)*	45 (62-35)*	49 (61-38)*
1 in 5 Year 3-Hour Precip. [mm]	49 (61-47)*	63 (70-62)*	58 (68-50)*	61 (67-58)*	64 (69-50)*	65 (85-47)*	68 (77-51)*
1 in 10 Year 3-Hour Precip. [mm]	58 (70-53)*	77 (99-75)*	71 (84-58)*	79 (84-75)*	78 (87-58)*	83 (99-56)*	82 (88-60)*
1 in 20 Year 3-Hour Precip. [mm]	71 (81-60)*	93 (139-89)*	83 (112-67)*	104 (107-91)*	88 (108-67)*	106 (113-64)*	96 (115-69)*
1 in 50 Year 3-Hour Precip. [mm]	88 (96-69)*	118 (218-108)*	100 (165-80)*	137 (162-117)*	102 (144-81)*	131 (146-77)*	110 (166-80)*
1 in 100 Year 3-Hour Precip. [mm]	94 (111-76)*	140 (308-124)*	115 (222-91)*	170 (223-144)*	114 (179-94)*	144 (190-87)*	118 (226-90)*
1 in 2 Year 6-Hour Precip. [mm]	49 (57-41)*	61 (61-59)*	54 (65-46)*	60 (62-53)*	56 (69-47)*	58 (84-50)*	61 (82-55)*
1 in 5 Year 6-Hour Precip. [mm]	65 (78-56)*	89 (94-85)*	75 (88-59)*	88 (89-84)*	82 (98-60)*	87 (116-66)*	85 (109-72)*
1 in 10 Year 6-Hour Precip. [mm]	76 (98-64)*	112 (127-101)*	90 (110-68)*	112 (115-110)*	100 (120-68)*	116 (138-79)*	108 (129-83)*
1 in 20 Year 6-Hour Precip. [mm]	86 (120-72)*	138 (171-116)*	109 (147-77)*	141 (158-134)*	117 (160-77)*	154 (162-94)*	142 (175-94)*
1 in 50 Year 6-Hour Precip. [mm]	108 (157-83)*	181 (250-137)*	147 (221-91)*	191 (244-172)*	143 (236-90)*	195 (227-121)*	179 (318-109)*
1 in 100 Year 6-Hour Precip. [mm]	115 (191-91)*	220 (335-153)*	172 (305-101)*	239 (341-205)*	164 (324-100)*	222 (310-149)*	203 (544-122)*
1 in 2 Year 12-Hour Precip. [mm]	59 (66-48)*	76 (77-75)*	64 (76-51)*	74 (76-74)*	71 (80-52)*	70 (97-70)*	75 (94-66)*
1 in 5 Year 12-Hour Precip. [mm]	79 (93-64)*	111 (115-102)*	87 (108-64)*	114 (115-102)*	96 (119-66)*	105 (133-94)*	104 (128-83)*
1 in 10 Year 12-Hour Precip. [mm]	91 (119-75)*	141 (142-117)*	102 (128-75)*	143 (149-125)*	114 (151-78)*	140 (158-105)*	122 (158-94)*
1 in 20 Year 12-Hour Precip. [mm]	103 (149-86)*	166 (177-130)*	125 (150-85)*	172 (191-151)*	133 (186-90)*	182 (186-114)*	141 (203-105)*
1 in 50 Year 12-Hour Precip. [mm]	119 (200-102)*	198 (234-147)*	166 (195-101)*	210 (265-191)*	160 (239-112)*	214 (274-122)*	171 (328-120)*
1 in 100 Year 12-Hour Precip. [mm]	131 (248-116)*	222 (286-159)*	180 (240-114)*	240 (340-226)*	182 (300-132)*	240 (372-127)*	197 (487-130)*
Annual Max. 1-day Precip. [mm]	37 (34-39)	39 (36-41)	39 (37-44)	41 (36-43)	42 (39-45)	41 (38-44)	44 (39-47)
Annual Max. 2-day Precip. [mm]	49 (47-53)	52 (48-56)	52 (49-58)	53 (49-58)	55 (52-63)	54 (50-59)	58 (52-61)
Annual Max. 5-day Precip. [mm]	65 (59-67)	66 (62-74)	68 (62-77)	70 (63-73)	69 (65-77)	71 (66-78)	75 (68-82)
Monthly Max. 1-day Precip. (January) [mm]	14 (13-16)	16 (13-19)	16 (13-18)	16 (14-19)	17 (14-20)	16 (14-19)	17 (16-20)
Monthly Max. 1-day Precip. (February) [mm]	13 (12-15)	14 (13-16)	15 (13-18)	15 (13-17)	16 (14-18)	16 (13-19)	17 (15-19)
Monthly Max. 1-day Precip. (March) [mm]	16 (14-18)	17 (14-19)	17 (14-20)	17 (14-21)	19 (16-22)	18 (14-21)	20 (17-24)
Monthly Max. 1-day Precip. (April) [mm]	17 (15-19)	18 (16-21)	19 (17-22)	19 (16-23)	20 (18-24)	19 (17-22)	22 (17-27)
Monthly Max. 1-day Precip. (May) [mm]	18 (15-20)	18 (16-21)	19 (16-22)	19 (16-23)	19 (17-23)	19 (16-22)	21 (18-26)
Monthly Max. 1-day Precip. (June) [mm]	21 (18-24)	21 (19-28)	21 (17-26)	20 (18-26)	21 (18-26)	21 (19-26)	21 (17-28)
Monthly Max. 1-day Precip. (July) [mm]	18 (16-22)	19 (15-21)	19 (16-20)	19 (15-22)	19 (16-20)	19 (16-23)	19 (15-22)
Monthly Max. 1-day Precip. (August) [mm]	21 (19-24)	21 (16-23)	20 (17-23)	21 (16-25)	20 (17-25)	20 (16-23)	20 (15-23)
Monthly Max. 1-day Precip. (September) [mm]	21 (19-25)	23 (17-26)	21 (17-25)	22 (17-27)	22 (18-29)	21 (17-26)	21 (14-28)
Monthly Max. 1-day Precip. (October) [mm]	19 (17-23)	21 (17-23)	21 (17-24)	21 (17-25)	22 (17-26)	20 (17-26)	21 (18-27)
Monthly Max. 1-day Precip. (November) [mm]	21 (17-25)	22 (17-28)	21 (19-28)	23 (20-28)	24 (19-28)	23 (19-27)	26 (18-31)
Monthly Max. 1-day Precip. (December) [mm]	16 (15-18)	17 (15-21)	17 (16-20)	18 (15-22)	19 (17-21)	19 (16-22)	21 (17-26)
Monthly Max. 2-day Precip. (January) [mm]	20 (19-22)	22 (18-27)	22 (19-26)	23 (20-28)	23 (19-27)	22 (20-28)	24 (22-28)
Monthly Max. 2-day Precip. (February) [mm]	19 (16-21)	19 (18-23)	21 (19-25)	21 (17-25)	23 (19-26)	22 (19-26)	24 (22-28)
Monthly Max. 2-day Precip. (March) [mm]	21 (19-25)	22 (19-26)	23 (21-27)	23 (19-30)	26 (22-29)	24 (20-30)	27 (23-31)
Monthly Max. 2-day Precip. (April) [mm]	24 (21-25)	24 (21-29)	25 (23-28)	26 (22-34)	27 (24-33)	27 (23-30)	30 (25-36)
Monthly Max. 2-day Precip. (May) [mm]	24 (21-27)	25 (23-29)	26 (22-30)	26 (21-31)	26 (23-30)	26 (22-30)	28 (24-35)
Monthly Max. 2-day Precip. (June) [mm]	27 (24-33)	29 (25-36)	29 (23-34)	28 (24-34)	28 (23-35)	28 (23-33)	29 (22-38)

Table G.2: Median projections for precipitation-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *).

Index	Baseline	2030s RCP 4.5	2030s RCP 8.5	2050s RCP 4.5	2050s RCP 8.5	2080s RCP 4.5	2080s RCP 8.5
Monthly Max. 2-day Precip. (July) [mm]	26 (23-28)	26 (22-28)	25 (22-28)	25 (21-29)	25 (21-28)	25 (22-30)	25 (20-29)
Monthly Max. 2-day Precip. (August) [mm]	28 (23-31)	27 (24-30)	26 (22-31)	28 (22-32)	27 (22-34)	27 (22-31)	26 (19-31)
Monthly Max. 2-day Precip. (September) [mm]	29 (25-35)	30 (24-35)	29 (23-34)	30 (24-34)	30 (24-34)	29 (24-37)	30 (19-37)
Monthly Max. 2-day Precip. (October) [mm]	26 (23-31)	27 (23-31)	29 (26-33)	28 (23-34)	29 (24-35)	27 (24-34)	30 (25-36)
Monthly Max. 2-day Precip. (November) [mm]	28 (23-33)	29 (23-35)	29 (25-34)	31 (25-37)	32 (26-34)	32 (26-35)	34 (26-40)
Monthly Max. 2-day Precip. (December) [mm]	22 (20-25)	24 (21-29)	24 (21-30)	25 (22-29)	26 (23-30)	27 (23-30)	29 (25-34)
Monthly Max. 5-day Precip. (January) [mm]	28 (26-31)	29 (26-36)	30 (26-35)	31 (27-37)	33 (27-37)	31 (27-35)	33 (29-37)
Monthly Max. 5-day Precip. (February) [mm]	26 (23-28)	27 (24-31)	29 (25-34)	28 (25-33)	32 (27-35)	31 (25-36)	33 (29-37)
Monthly Max. 5-day Precip. (March) [mm]	28 (25-33)	30 (27-34)	31 (25-34)	31 (26-38)	33 (29-39)	32 (26-37)	36 (29-41)
Monthly Max. 5-day Precip. (April) [mm]	31 (29-35)	32 (28-37)	35 (29-39)	34 (29-41)	38 (32-43)	34 (31-41)	40 (33-46)
Monthly Max. 5-day Precip. (May) [mm]	33 (28-37)	34 (30-38)	35 (29-40)	36 (27-41)	35 (30-40)	33 (29-39)	38 (33-43)
Monthly Max. 5-day Precip. (June) [mm]	35 (33-42)	38 (32-47)	36 (29-44)	34 (31-45)	37 (29-46)	36 (30-41)	35 (31-49)
Monthly Max. 5-day Precip. (July) [mm]	33 (30-38)	34 (30-38)	33 (29-35)	34 (29-39)	32 (28-34)	34 (29-37)	33 (28-40)
Monthly Max. 5-day Precip. (August) [mm]	35 (29-39)	34 (30-39)	36 (28-41)	35 (28-43)	37 (30-43)	35 (28-39)	32 (26-37)
Monthly Max. 5-day Precip. (September) [mm]	38 (34-44)	40 (34-44)	37 (34-44)	39 (31-44)	39 (33-47)	38 (32-43)	38 (29-45)
Monthly Max. 5-day Precip. (October) [mm]	34 (30-39)	35 (31-40)	37 (31-42)	38 (31-44)	36 (32-43)	35 (31-44)	39 (31-45)
Monthly Max. 5-day Precip. (November) [mm]	36 (31-39)	39 (31-47)	38 (33-44)	40 (34-46)	40 (33-47)	40 (34-45)	42 (35-49)
Monthly Max. 5-day Precip. (December) [mm]	31 (29-34)	33 (29-38)	34 (29-39)	35 (30-41)	36 (31-40)	35 (32-40)	41 (34-46)
Number of Days Precip >20 mm [# Days]	6 (6-7)	7 (6-8)	7 (6-8)	8 (6-8)	8 (7-9)	8 (7-9)	9 (7-10)
Number of Days Precip >1 mm [# Days]	139 (137-141)	140 (136-143)	140 (138-143)	141 (137-143)	141 (136-144)	140 (135-144)	140 (134-144)
Number of Days Precip >10 mm [# Days]	27 (25-29)	29 (26-30)	29 (27-31)	29 (27-32)	30 (28-32)	30 (26-32)	32 (28-34)
Number of Days Precip >25 mm [# Days]	3 (3-4)	4 (3-4)	4 (3-5)	4 (4-5)	4 (4-5)	4 (4-5)	5 (4-6)
Number of Days Precip >50 mm [# Days]	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)	0 (0-0)
Number of 2-day Precip. >50 mm [# Days]	0 (0-1)	1 (0-1)	1 (0-1)	1 (1-1)	1 (1-1)	1 (1-1)	1 (1-2)
Number of Hours Precip. >15 mm [# Hours]	2 (2-1)*	2 (2-1)*	2 (3-1)*	2 (3-1)*	3 (5-1)*	1 (4-1)*	4 (7-1)*
Number of Hours Precip. >25 mm [# Hours]	0 (1-0)*	0 (0-0)*	1 (1-0)*	0 (1-0)*	1 (1-0)*	0 (2-0)*	1 (2-0)*
Number of Hours Precip. >50 mm [# Hours]	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*
Max. Length of Dry Spell [# Days]	13 (13-15)	14 (13-15)	14 (13-15)	13 (13-15)	14 (12-15)	14 (13-14)	14 (13-15)
Max. Length of Wet Spell [# Days]	7 (6-7)	7 (6-7)	7 (6-7)	7 (7-7)	7 (6-7)	7 (7-7)	7 (7-7)
Timing of Wettest Month [Month]	September	June	June	June	November	November	April
Timing of Dryest Month [Month]	March	March	March	March	March	March	March
Annual Total Snowfall [cm]	223 (232-219)*	193 (215-171)*	201 (209-156)*	184 (216-122)*	179 (193-133)*	154 (210-103)*	124 (169-55)*
Monthly Total Snowfall (August) [cm]	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*
Monthly Total Snowfall (September) [cm]	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*
Monthly Total Snowfall (October) [cm]	1 (2-0)*	0 (2-0)*	0 (2-0)*	0 (2-0)*	0 (2-0)*	0 (2-0)*	0 (2-0)*
Monthly Total Snowfall (November) [cm]	17 (19-6)*	9 (19-2)*	9 (21-3)*	9 (15-2)*	7 (13-2)*	6 (12-1)*	2 (8-0)*
Monthly Total Snowfall (December) [cm]	47 (49-23)*	44 (65-23)*	40 (52-19)*	38 (55-19)*	35 (43-19)*	32 (58-14)*	19 (39-8)*
Monthly Total Snowfall (January) [cm]	51 (56-28)*	48 (58-28)*	49 (59-29)*	39 (55-22)*	46 (55-28)*	42 (55-23)*	26 (44-8)*
Monthly Total Snowfall (February) [cm]	39 (47-30)*	34 (46-24)*	36 (58-22)*	34 (45-17)*	31 (47-15)*	25 (47-16)*	12 (40-5)*
Monthly Total Snowfall (March) [cm]	34 (39-19)*	27 (42-11)*	24 (37-10)*	21 (34-8)*	20 (41-8)*	19 (38-6)*	11 (27-4)*
Monthly Total Snowfall (April) [cm]	8 (9-3)*	4 (9-2)*	5 (8-2)*	3 (8-0)*	3 (4-1)*	2 (5-0)*	0 (2-0)*
Monthly Total Snowfall (May) [cm]	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*
Monthly Total Snowfall (June) [cm]	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*
Monthly Total Snowfall (July) [cm]	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*
Annual Max. 1-day Snowfall [cm/day]	19.9 (21.0-18.5)*	20.6 (23.4-17.7)*	20.1 (23.8-17.6)*	21.9 (23.6-16.2)*	19.7 (22.5-16.9)*	20.2 (23.9-16.3)*	16.4 (20.5-10.1)*
Number of Days with Snowfall [# Days]	41 (43-39)*	37 (38-32)*	37 (39-30)*	33 (39-25)*	32 (35-24)*	31 (38-22)*	22 (30-11)*
Number of Days with Snowfall >= 10 cm/day [# Days]	5 (6-5)*	4 (6-4)*	4 (5-3)*	3 (5-2)*	4 (4-3)*	3 (6-2)*	2 (4-1)*
Annual Max. Snow Depth [cm]	58 (67-55)*	48 (65-38)*	50 (64-48)*	45 (58-26)*	40 (65-31)*	42 (58-34)*	29 (57-18)*
Number of Days with Snow Depth >8 cm [# Days]	92 (95-87)*	79 (86-61)*	75 (81-57)*	67 (84-44)*	53 (66-39)*	61 (73-36)*	30 (42-12)*
Number of Days with Snow Depth >21 cm [# Days]	42 (47-37)*	28 (43-11)*	26 (32-9)*	19 (41-2)*	13 (24-2)*	15 (22-1)*	5 (13-0)*
Annual Max. 3-day Snow Melt Water Equivalent [mm SWE]	71 (119-65)*	62 (117-48)*	63 (124-46)*	69 (111-36)*	57 (123-35)*	69 (113-34)*	40 (124-22)*
Annual Max. 7-day Snow Melt Water Equivalent [mm SWE]	99 (165-92)*	88 (158-73)*	84 (168-75)*	94 (158-45)*	76 (169-46)*	87 (161-50)*	56 (160-31)*
Number of days with Snow Cover [# Days]	115 (117-107)*	95 (113-80)*	94 (110-81)*	90 (103-60)*	72 (93-59)*	78 (103-55)*	43 (68-20)*
Duration of From First to Last Day of Snow [# Days]	160 (174-150)*	151 (165-130)*	150 (160-135)*	150 (164-122)*	133 (153-123)*	141 (150-105)*	109 (142-97)*
Timing of Month with Max. Snowfall [Month]	December	December	January	January	January	January	January
Timing of Month with Max. Snow Depth [Month]	March	January	January	March	January	January	January
Timing of First Snowfall [Day]	309 (313-305)*	312 (328-308)*	316 (326-298)*	320 (330-309)*	325 (330-308)*	322 (336-312)*	334 (339-315)*
Timing of Last Snowfall [Day]	105 (110-97)*	101 (108-94)*	99 (105-93)*	101 (110-89)*	92 (103-88)*	95 (102-73)*	82 (91-74)*
Timing of Max. 3-day Melt [Day]	56 (64–7)*	35 (72–12)*	32 (70–14)*	44 (71–7)*	36 (64–11)*	32 (64–13)*	25 (57–7)*
Timing of Max. 7-day Melt [Day]	61 (66-0)*	36 (71–8)*	37 (72–13)*	42 (71–7)*	34 (66–9)*	30 (65–10)*	31 (50–7)*

G3 Wind

Table G.3: Median projections for wind-related indices (with 10th and 90th percentiles shown as ranges, or maxima-minima for the indices with *).

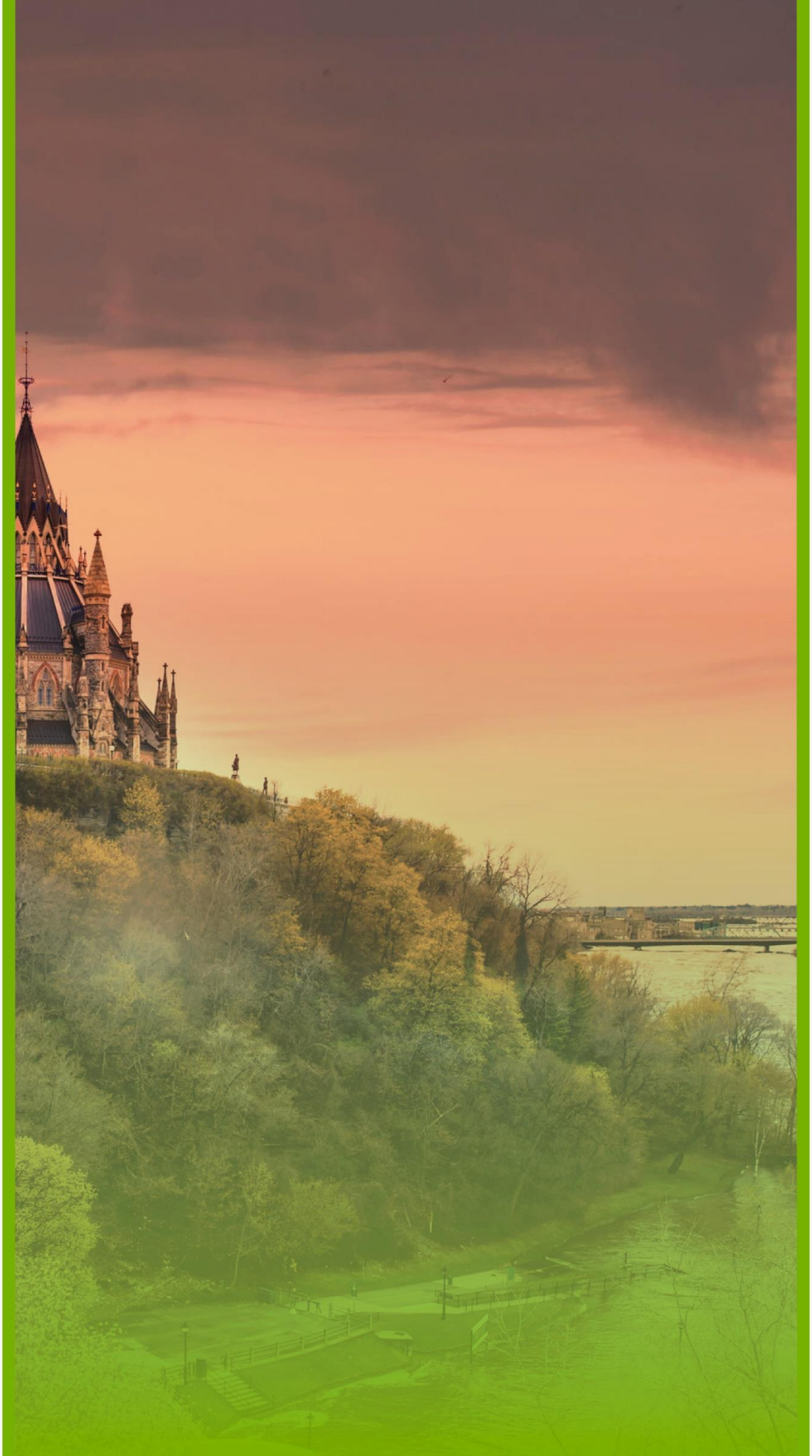
Index	Baseline	2030s RCP 4.5	2030s RCP 8.5	2050s RCP 4.5	2050s RCP 8.5	2080s RCP 4.5	2080s RCP 8.5
Monthly Avg. Wind Speed (January) [m/s]	4.1 (4.1-4.0)*	4.2 (4.3-4.1)*	4.2 (4.3-4.1)*	4.2 (4.3-4.2)*	4.2 (4.4-4.1)*	4.1 (4.2-4.0)*	4.2 (4.3-4.1)*
Monthly Avg. Wind Speed (February) [m/s]	4.1 (4.1-4.1)*	4.3 (4.6-4.0)*	4.2 (4.2-4.1)*	4.2 (4.5-3.9)*	4.2 (4.2-4.2)*	4.2 (4.4-4.0)*	4.3 (4.4-4.2)*
Monthly Avg. Wind Speed (March) [m/s]	4.2 (4.2-4.1)*	4.1 (4.2-4.0)*	4.2 (4.2-4.1)*	4.2 (4.2-4.1)*	4.2 (4.4-4.0)*	4.1 (4.2-4.0)*	4.1 (4.2-4.1)*
Monthly Avg. Wind Speed (April) [m/s]	4.1 (4.2-4.0)*	4.0 (4.2-3.9)*	3.9 (4.1-3.7)*	3.9 (4.1-3.8)*	4.1 (4.3-4.0)*	4.1 (4.2-4.0)*	4.0 (4.2-3.8)*
Monthly Avg. Wind Speed (May) [m/s]	3.9 (4.1-3.7)*	3.9 (3.9-3.8)*	3.8 (4.0-3.7)*	3.8 (3.9-3.7)*	3.8 (4.0-3.6)*	3.8 (3.8-3.7)*	3.8 (3.9-3.6)*
Monthly Avg. Wind Speed (June) [m/s]	3.5 (3.6-3.3)*	3.5 (3.7-3.3)*	3.5 (3.7-3.2)*	3.5 (3.7-3.4)*	3.5 (3.8-3.2)*	3.5 (3.7-3.3)*	3.3 (3.6-3.1)*
Monthly Avg. Wind Speed (July) [m/s]	3.1 (3.2-3.1)*	3.2 (3.3-3.1)*	3.1 (3.2-2.9)*	3.1 (3.2-3.0)*	3.1 (3.2-2.9)*	3.0 (3.2-2.8)*	3.1 (3.2-3.1)*
Monthly Avg. Wind Speed (August) [m/s]	3.0 (3.0-2.9)*	2.9 (2.9-2.9)*	2.9 (2.9-2.8)*	2.9 (3.1-2.8)*	2.9 (3.0-2.9)*	2.9 (2.9-2.9)*	3.0 (3.1-2.8)*
Monthly Avg. Wind Speed (September) [m/s]	3.1 (3.3-2.9)*	2.9 (3.1-2.8)*	3.1 (3.2-3.0)*	2.9 (3.0-2.8)*	3.0 (3.0-3.0)*	3.0 (3.0-3.0)*	3.0 (3.1-3.0)*
Monthly Avg. Wind Speed (October) [m/s]	3.3 (3.6-3.1)*	3.3 (3.7-3.0)*	3.4 (3.7-3.1)*	3.3 (3.6-3.0)*	3.4 (3.7-3.0)*	3.3 (3.6-3.0)*	3.4 (3.9-2.9)*
Monthly Avg. Wind Speed (November) [m/s]	3.8 (4.0-3.7)*	3.6 (3.7-3.5)*	3.7 (3.9-3.5)*	3.7 (3.9-3.5)*	3.7 (4.0-3.4)*	3.7 (3.9-3.6)*	3.5 (3.8-3.2)*
Monthly Avg. Wind Speed (December) [m/s]	3.9 (4.0-3.8)*	4.0 (4.0-3.9)*	4.0 (4.1-3.9)*	3.9 (3.9-3.9)*	4.1 (4.1-4.1)*	4.1 (4.2-4.0)*	4.1 (4.3-4.0)*
1 in 2 Year 3-Hourly Winds [m/s]	13.6 (13.8-13.4)*	14.2 (15.1-13.3)*	14.1 (14.8-13.5)*	14.3 (15.3-13.3)*	14.5 (15.6-13.4)*	14.7 (16.1-13.3)*	14.0 (14.5-13.5)*
1 in 5 Year 3-Hourly Winds [m/s]	14.7 (15.1-14.2)*	15.2 (16.4-14.0)*	15.3 (16.3-14.3)*	15.3 (16.6-14.0)*	15.7 (17.2-14.1)*	15.6 (17.1-14.0)*	15.2 (16.1-14.3)*
1 in 10 Year 3-Hourly Winds [m/s]	15.3 (15.9-14.7)*	15.6 (16.9-14.3)*	16.0 (16.9-15.0)*	15.7 (17.0-14.4)*	16.2 (17.9-14.6)*	15.9 (17.4-14.5)*	16.0 (16.9-15.1)*
1 in 20 Year 3-Hourly Winds [m/s]	15.8 (16.5-15.1)*	15.9 (17.3-14.6)*	16.5 (17.4-15.6)*	16.0 (17.3-14.7)*	16.7 (18.4-15.0)*	16.2 (17.6-14.9)*	16.9 (17.7-16.1)*
1 in 50 Year 3-Hourly Winds [m/s]	16.4 (17.2-15.6)*	16.2 (17.6-14.9)*	17.2 (17.8-16.5)*	16.3 (17.5-15.0)*	17.2 (18.9-15.6)*	16.6 (17.7-15.4)*	18.3 (18.6-18.0)*
1 in 100 Year 3-Hourly Winds [m/s]	16.8 (17.7-15.9)*	16.4 (17.7-15.0)*	17.7 (18.1-17.3)*	16.4 (17.6-15.2)*	17.6 (19.2-16.0)*	16.8 (17.7-15.8)*	19.6 (20.2-19.1)*
Number of Hours Wind Speed >10 km/hr [# hours]	4993 (5141-4845)*	4981 (5095-4868)*	5049 (5227-4870)*	4934 (4981-4887)*	5040 (5164-4917)*	4981 (5053-4909)*	4974 (5013-4934)*
Number of Hours Wind Speed >20 km/hr [# hours]	1493 (1559-1427)*	1500 (1548-1452)*	1481 (1534-1428)*	1477 (1477-1476)*	1533 (1581-1486)*	1465 (1534-1397)*	1497 (1564-1430)*
Number of Hours Wind Speed >40 km/hr [# hours]	28 (34-22)*	28 (31-25)*	30 (36-25)*	25 (26-25)*	36 (37-35)*	34 (34-34)*	36 (40-32)*

G4 Humidity

Table G.4: Median projections for humidity-related indices (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *).

Index	Baseline	2030s RCP 4.5	2030s RCP 8.5	2050s RCP 4.5	2050s RCP 8.5	2080s RCP 4.5	2080s RCP 8.5
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (January) [%]	73.5 (74.9-72.6)*	74.8 (74.9-70.3)*	72.9 (75.3-70.1)*	75.2 (75.4-72.2)*	72.0 (75.3-68.4)*	75.4 (76.3-72.4)*	71.9 (76.1-61.4)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (February) [%]	66.0 (68.4-65.2)*	67.8 (74.4-63.6)*	65.7 (67.7-63.2)*	67.1 (73.2-64.0)*	65.8 (66.9-61.9)*	69.2 (74.0-65.7)*	65.1 (73.9-51.7)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (March) [%]	57.5 (59.1-56.2)*	64.0 (69.4-56.2)*	58.6 (61.8-53.6)*	67.9 (71.3-56.2)*	59.0 (62.2-49.0)*	67.5 (72.0-56.3)*	62.6 (65.6-42.7)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (April) [%]	47.0 (48.6-43.6)*	56.0 (62.0-42.0)*	50.9 (53.4-41.5)*	55.2 (62.2-42.6)*	51.5 (55.4-40.6)*	56.3 (61.3-42.5)*	54.8 (59.0-39.9)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (May) [%]	46.9 (48.2-45.4)*	45.0 (55.4-44.8)*	47.9 (50.2-45.8)*	46.8 (57.0-46.6)*	48.1 (51.5-45.2)*	47.4 (56.0-45.6)*	48.6 (53.3-45.5)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (June) [%]	50.2 (51.3-48.4)*	51.9 (60.9-45.9)*	50.0 (53.5-48.7)*	51.6 (61.1-46.0)*	50.8 (52.4-46.4)*	53.7 (60.8-47.3)*	49.8 (52.5-45.5)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (July) [%]	50.8 (52.1-49.9)*	50.0 (62.3-47.8)*	50.1 (52.3-48.4)*	49.9 (60.0-47.8)*	49.2 (51.3-46.8)*	49.2 (61.0-48.4)*	49.4 (51.4-46.8)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (August) [%]	52.4 (54.0-51.8)*	53.1 (64.4-49.6)*	52.4 (54.4-49.2)*	53.1 (62.9-49.3)*	51.6 (53.5-49.0)*	54.5 (62.4-49.2)*	51.3 (54.1-47.3)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (September) [%]	57.7 (59.4-56.5)*	58.7 (60.2-54.3)*	56.9 (58.7-53.1)*	58.8 (61.0-54.0)*	56.0 (58.4-51.6)*	60.2 (60.8-52.8)*	56.0 (59.1-50.5)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (October) [%]	61.6 (62.6-60.5)*	63.6 (65.8-57.1)*	62.2 (63.1-56.9)*	62.8 (68.3-57.5)*	61.7 (63.0-60.1)*	61.2 (69.1-58.5)*	62.5 (65.4-59.0)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (November) [%]	70.4 (70.9-68.8)*	75.4 (79.7-69.2)*	72.4 (76.2-69.3)*	76.2 (79.4-71.4)*	74.7 (79.5-66.4)*	75.0 (79.7-70.5)*	76.6 (83.5-66.7)*
Monthly Avg. Relative Humidity at the Time of Max. Daily Temp. (December) [%]	77.5 (77.9-75.7)*	78.0 (79.2-75.3)*	77.5 (79.8-72.4)*	79.2 (79.7-77.6)*	77.6 (81.1-71.3)*	78.9 (79.2-77.5)*	78.8 (83.2-65.3)*

G5 Combined

Table G.5: Median projections for indices that combine different parameters (10^{th} and 90^{th} percentiles shown as ranges, or maxima-minima for the indices with *).

Index	Baseline	2030s RCP 4.5	2030s RCP 8.5	2050s RCP 4.5	2050s RCP 8.5	2080s RCP 4.5	2080s RCP 8.5
Snow Approximation (Based on Precip. and Temp.) [mm]	148 (133-168)	128 (108-146)	132 (113-150)	120 (99-140)	113 (89-134)	116 (79-140)	79 (45-102)
Winter Rain Approximation (Based on Dec-Feb Precip. & Temp.) [mm]	99 (90-117)	121 (106-157)	130 (109-156)	137 (117-165)	156 (127-186)	150 (122-171)	187 (153-230)
Max. 3-day Sum of Snow Melt and Precip. [mm]	46 (48-41)*	52 (60-49)*	52 (55-46)*	52 (60-49)*	52 (60-49)*	51 (58-48)*	56 (67-53)*
Winter Rain >10 mm and Freezing [# Days]	6 (5-7)	6 (4-7)	6 (5-7)	5 (4-7)	6 (4-6)	5 (4-7)	5 (3-7)
Snow Melt Water Equivalent >10 mm and Freezing [# Days]	9 (11-8)*	7 (29-6)*	6 (6-6)*	7 (26-3)*	6 (6-5)*	8 (24-3)*	3 (3-2)*
Winds >20 km/hr and Winter Precip. >1 mm [# Days]	5 (6-3)*	4 (10-1)*	4 (6-4)*	4 (10-1)*	5 (6-4)*	4 (11-1)*	5 (7-3)*
Number of Days Wind Chill is between -35 and -25 [# Days]	17 (19-16)*	11 (14-5)*	8 (12-5)*	6 (14-3)*	5 (8-3)*	5 (8-3)*	1 (3-0)*
Number of Days Wind Chill < -35 [# Days]	1 (2-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*	0 (0-0)*
Number of Days Wind >10 km/hr and Snow >1 cm [# Days]	14 (15-13)*	12 (14-9)*	13 (15-11)*	12 (13-8)*	12 (14-10)*	11 (15-8)*	7 (11-3)*
Number of Days Wind >10 km/hr and Snow >5 cm [# Days]	5 (6-4)*	4 (5-3)*	4 (6-3)*	4 (5-3)*	4 (5-3)*	3 (5-3)*	2 (4-1)*
Number of Days Wind >20 km/hr and Snow >1 cm [# Days]	4 (5-3)*	3 (8-0)*	3 (4-3)*	3 (8-1)*	4 (4-2)*	3 (8-1)*	3 (3-1)*
Number of Days Wind >20 km/hr and Snow >5 cm [# Days]	1 (2-1)*	1 (3-0)*	2 (2-1)*	1 (3-0)*	1 (2-0)*	1 (2-0)*	1 (1-0)*
Number of Days Humidex >30 [# Days]	57 (59-54)*	85 (92-78)*	77 (87-73)*	92 (96-80)*	93 (111-86)*	102 (107-82)*	116 (136-101)*
Number of Days Humidex >35 [# Days]	23 (28-20)*	46 (51-42)*	43 (55-34)*	55 (59-43)*	60 (74-42)*	66 (70-45)*	85 (105-58)*
Number of Days Humidex >40 [# Days]	5 (9-2)*	15 (19-12)*	16 (41-9)*	22 (24-17)*	26 (52-10)*	27 (31-19)*	43 (70-23)*
Number of Days Humidex >30 for Two Days [# Days]	11 (12-10)*	13 (14-12)*	12 (13-11)*	13 (13-12)*	12 (13-10)*	13 (13-12)*	11 (13-10)*
Number of Days Humidex >35 for Two Days [# Days]	6 (7-5)*	10 (10-9)*	9 (11-8)*	10 (11-9)*	11 (12-9)*	12 (13-9)*	12 (13-11)*
Number of Days Humidex >40 for Two Days [# Days]	1 (2-1)*	4 (5-3)*	4 (7-2)*	5 (6-4)*	6 (9-2)*	6 (7-5)*	9 (12-6)*
Number of Days Chandler Burning Index (Fire Index) >75 [# Days]	6 (7-5)*	5 (9-0)*	5 (6-4)*	4 (8-0)*	5 (8-4)*	5 (10-0)*	5 (10-2)*
Number of Days Chandler Burning Index (Fire Index) >90 [# Days]	2 (2-1)*	1 (3-0)*	1 (3-1)*	1 (2-0)*	1 (4-1)*	1 (2-0)*	1 (3-0)*
Water Scarcity Approximation (Based on Precip. and Temp.) [# Days]	26 (23-29)	39 (33-46)	42 (33-46)	45 (35-52)	54 (44-60)	48 (37-58)	69 (58-81)