

Figure S1: Study domains (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

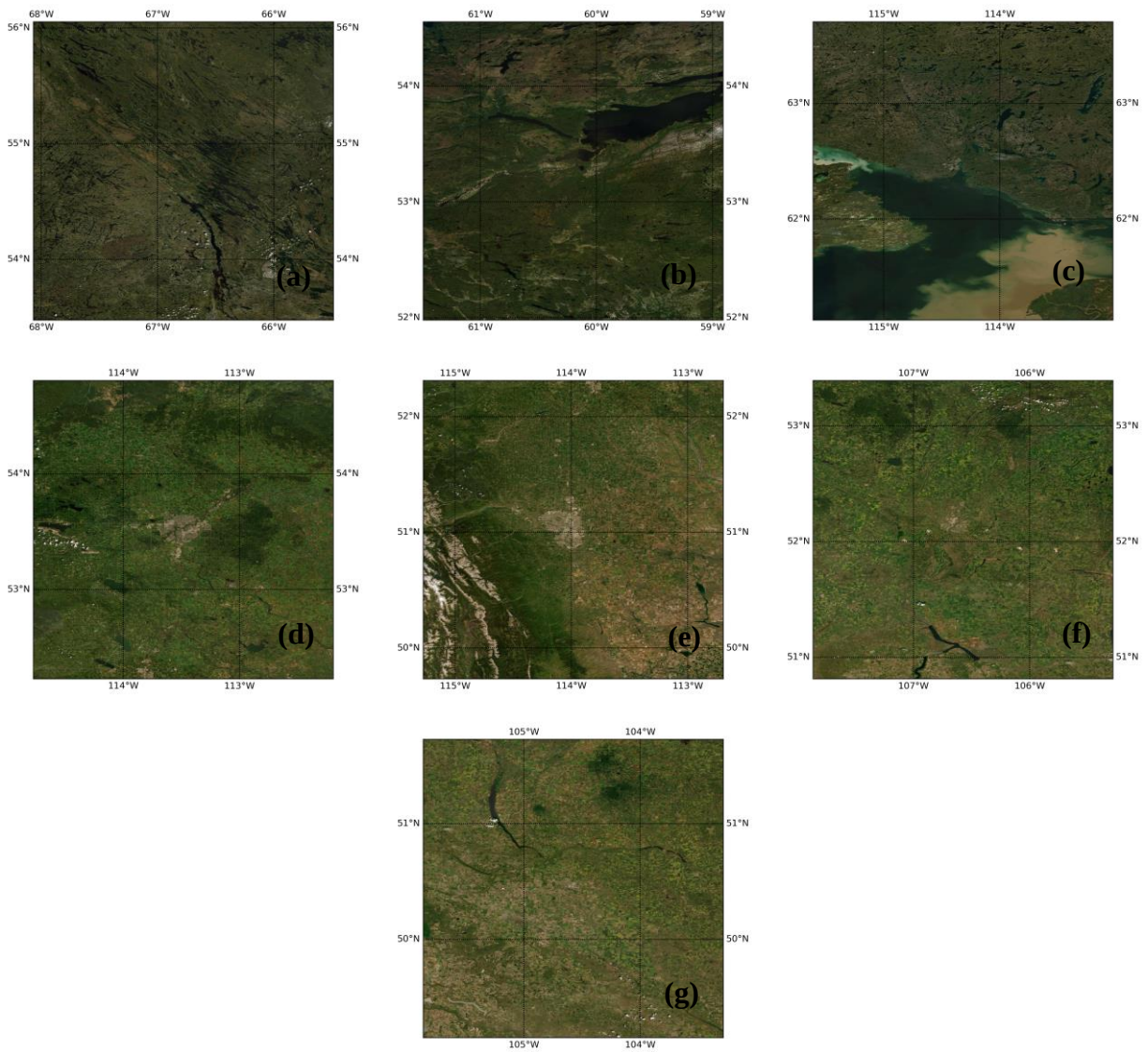


Figure S2: Median annual maximum daily precipitation for UK ESM1 at (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

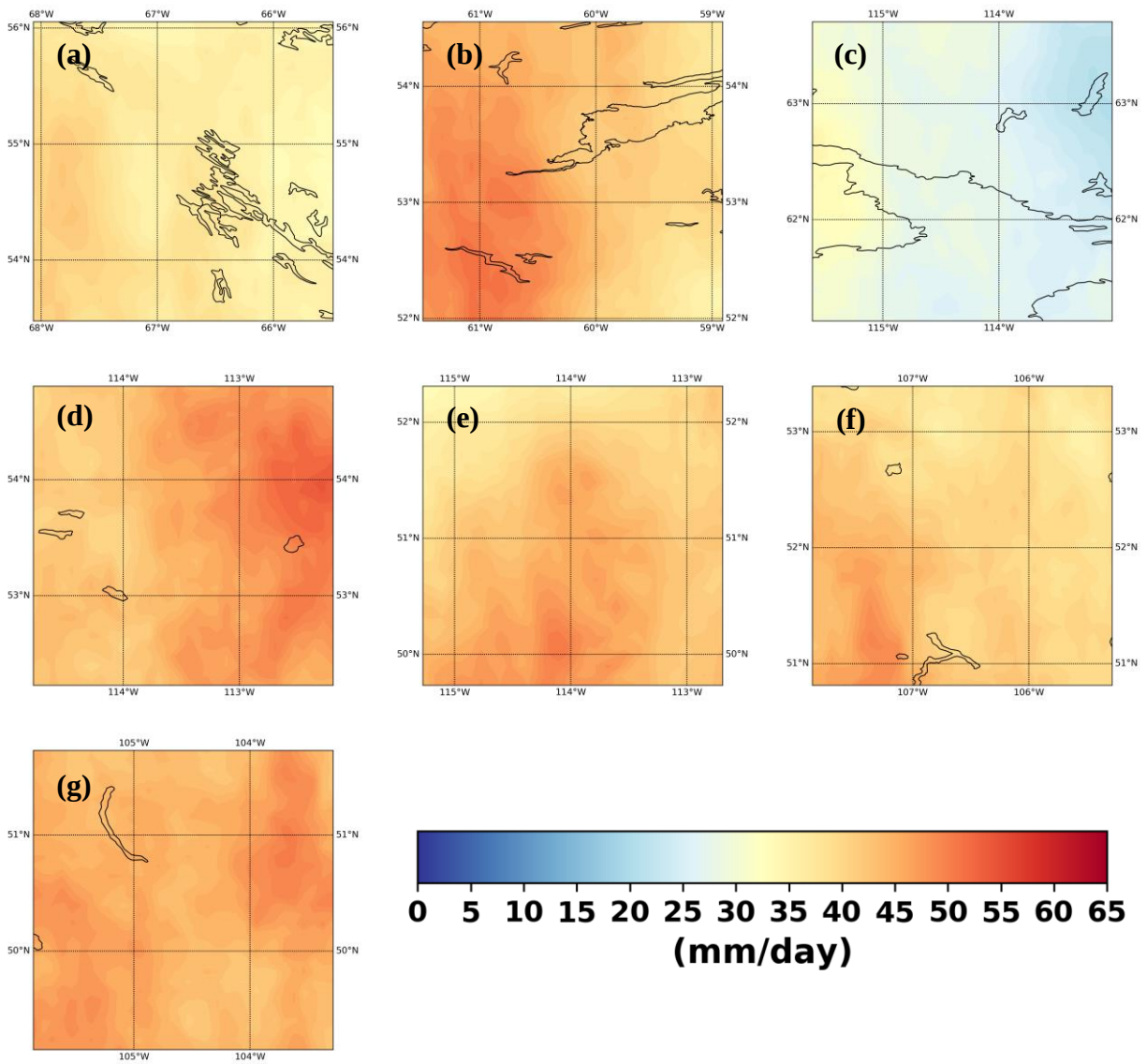


Figure S3: Median annual maximum daily precipitation for BCC ESM2 at (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

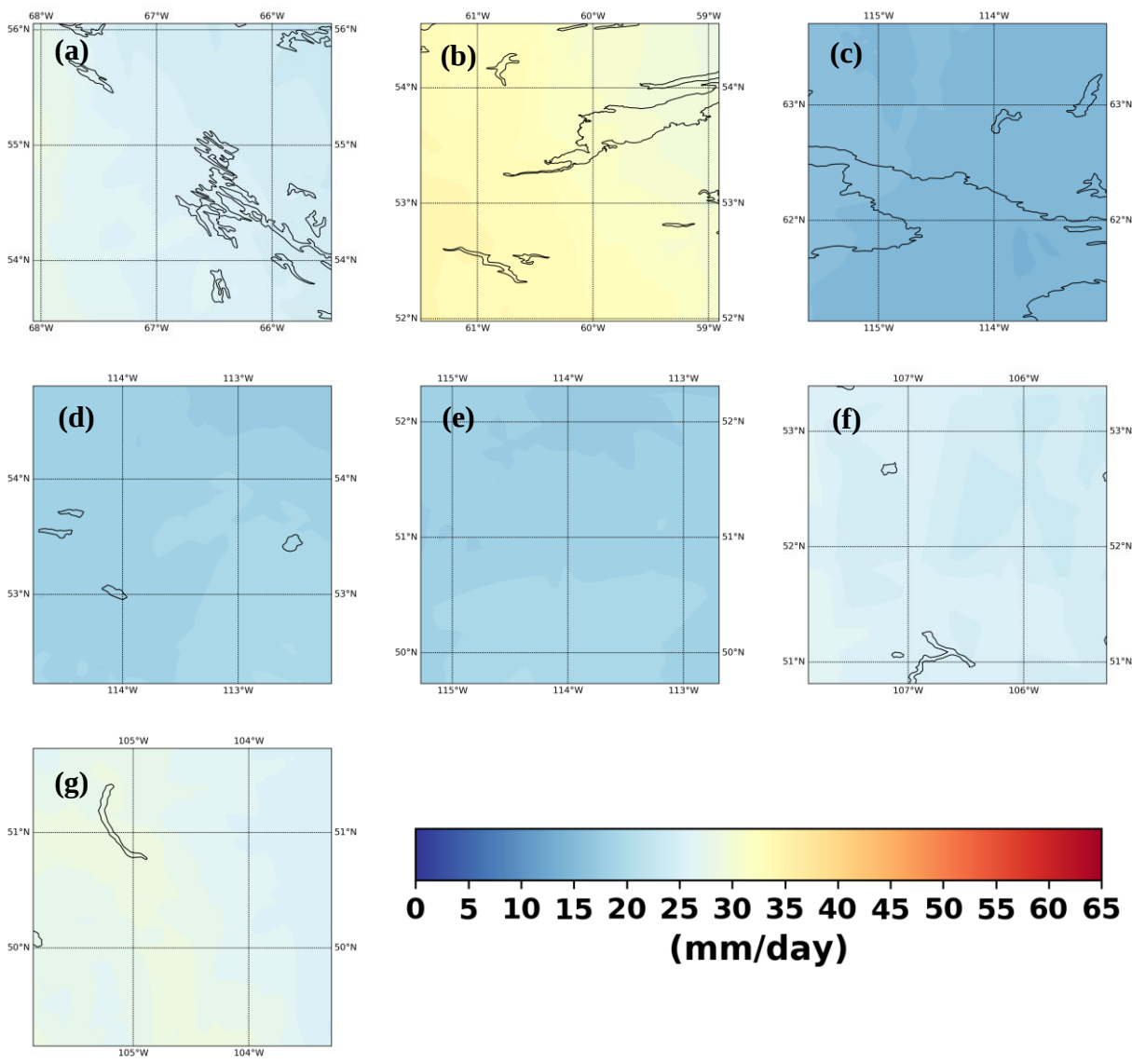


Figure S4: Median annual maximum daily precipitation for Canadian ESM5 at (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

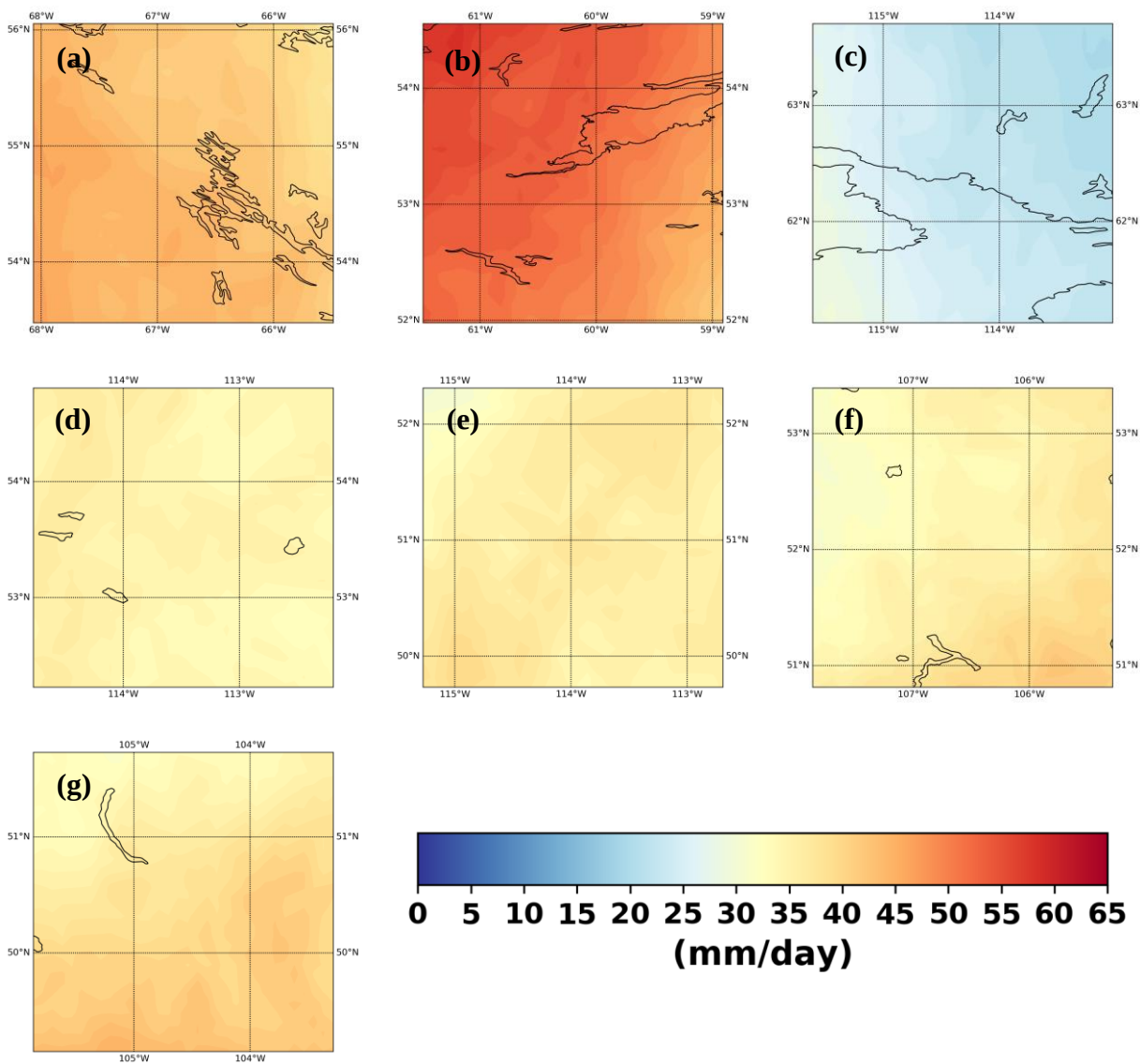


Figure S5: Median annual maximum daily precipitation for CNRM CM6.1 at (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

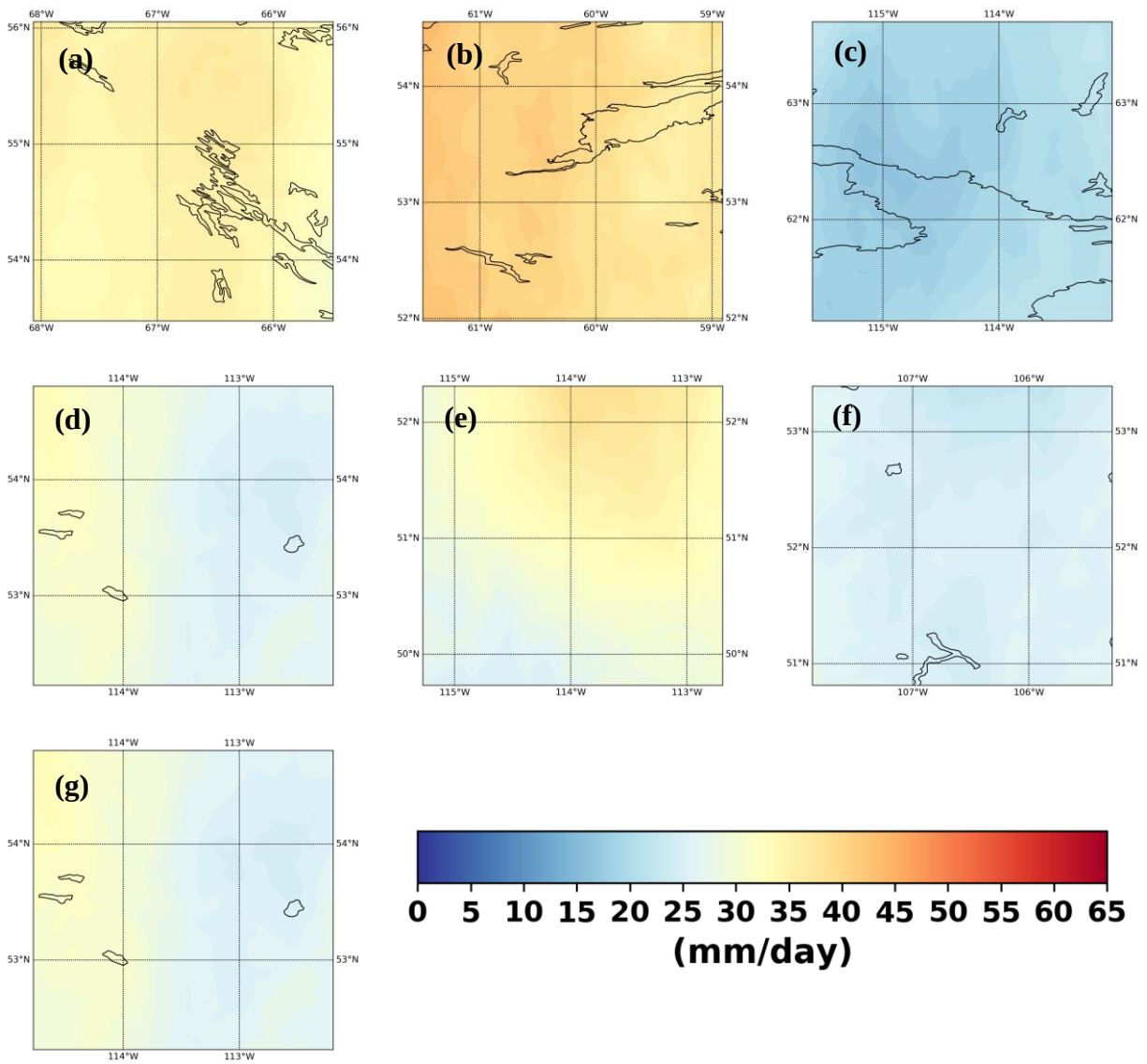


Figure S6: Median annual maximum daily precipitation for CNRM ESM2 at (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

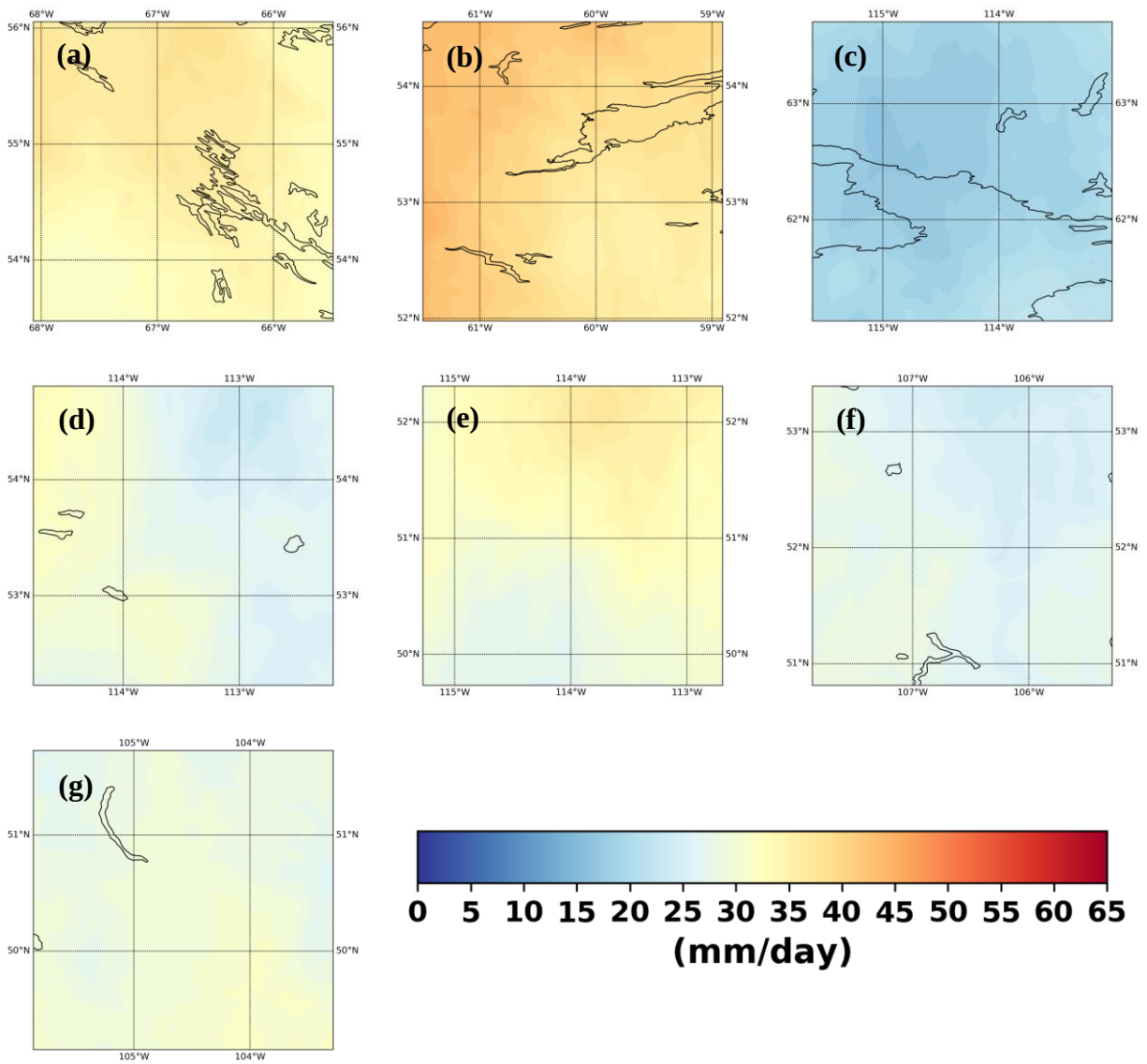


Figure S7: Median annual maximum daily precipitation for GFDL CM4 at (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

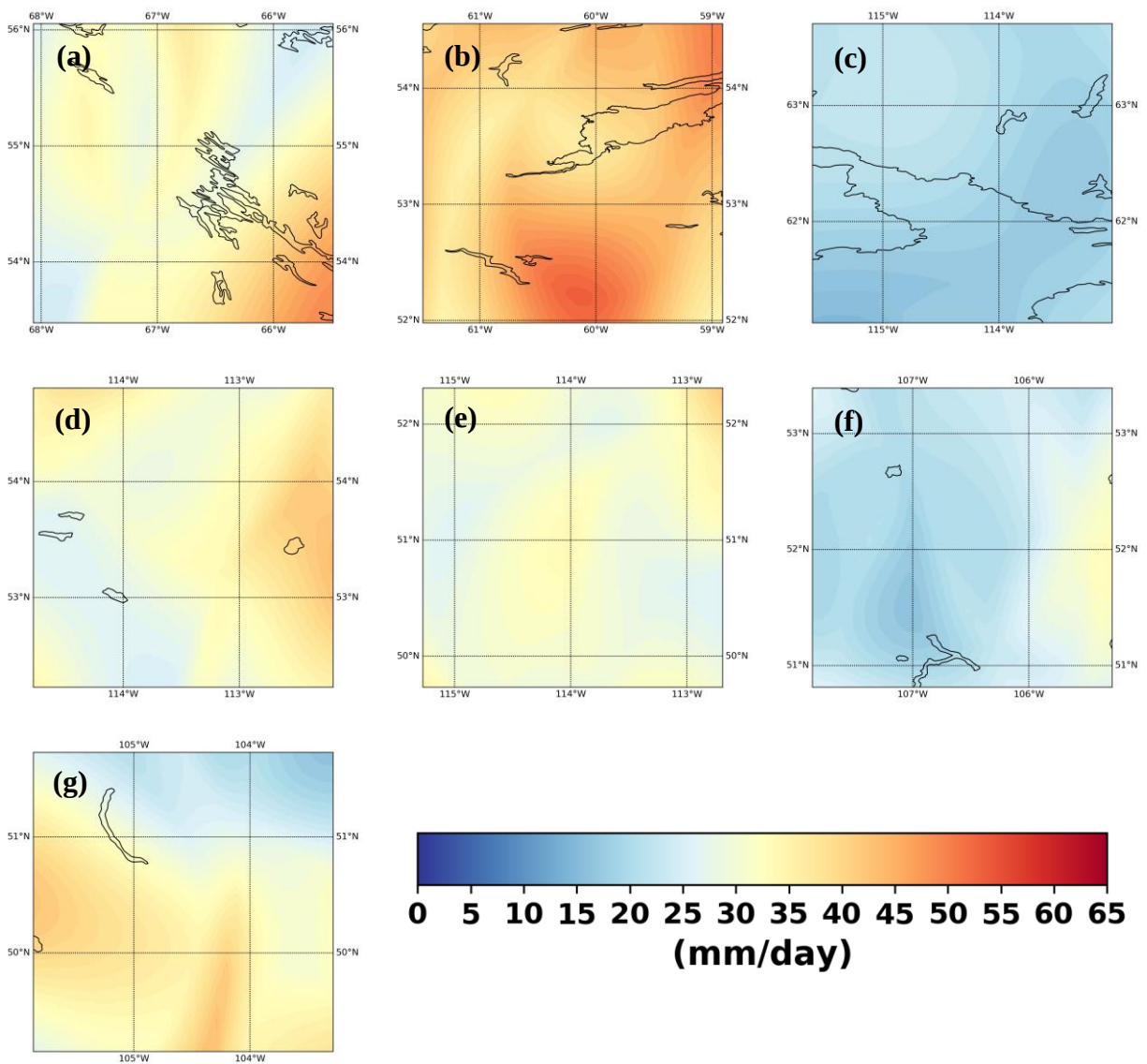


Figure S8: Median annual maximum daily precipitation for Hadley GEM4 at (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

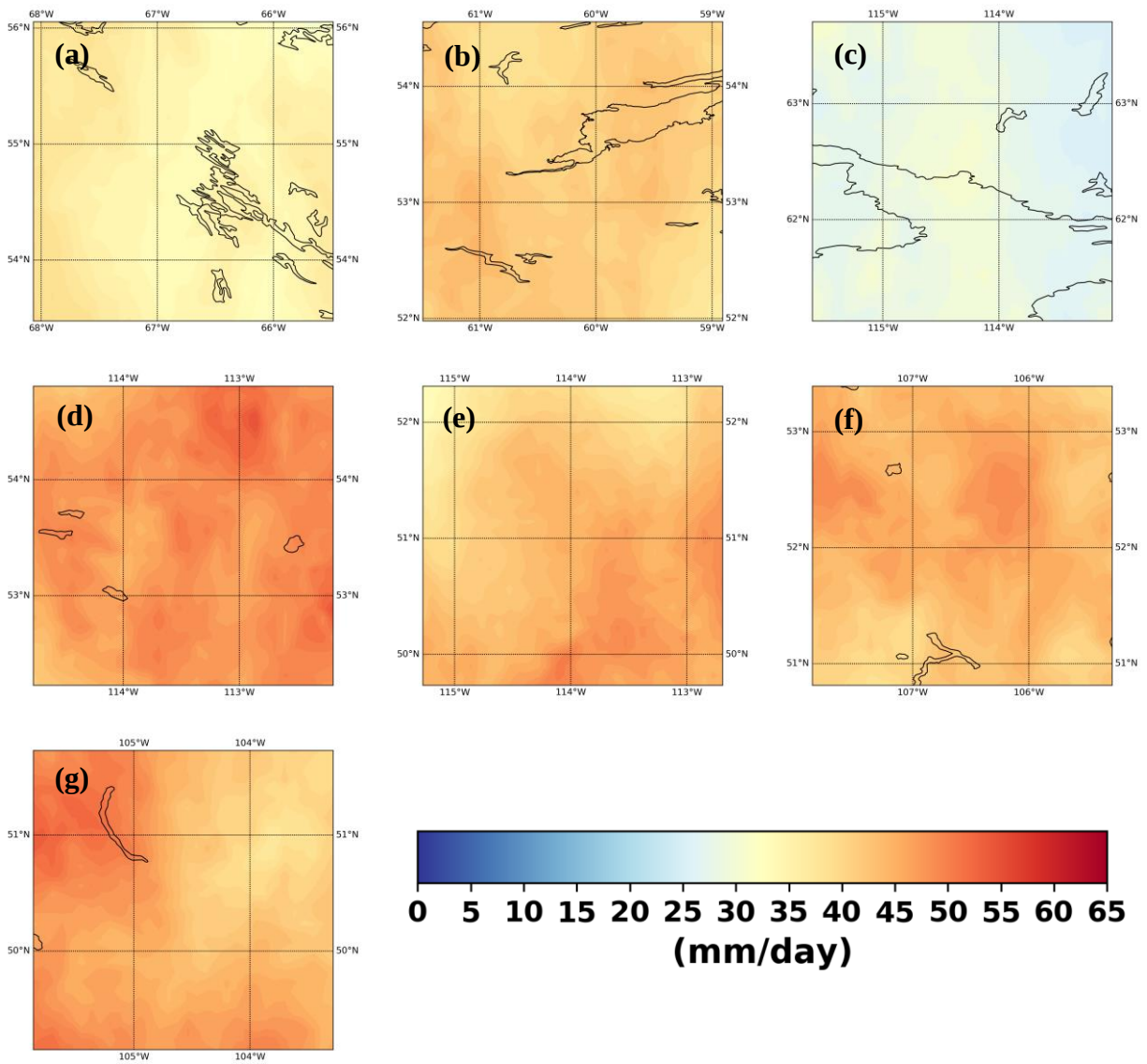


Figure S9: Median annual maximum daily precipitation for MRI at (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

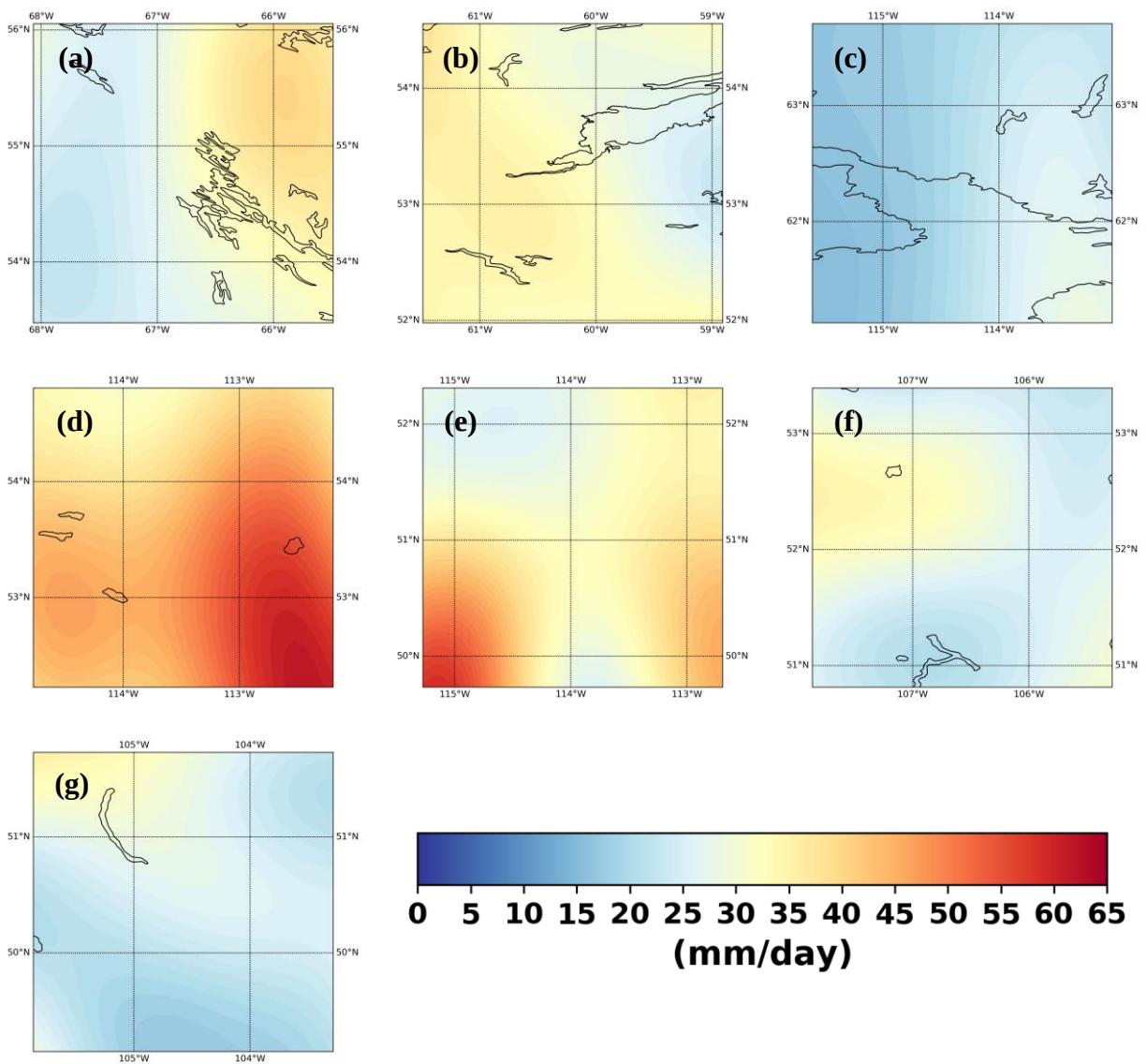


Figure S10: Median annual maximum daily precipitation for CESM at (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

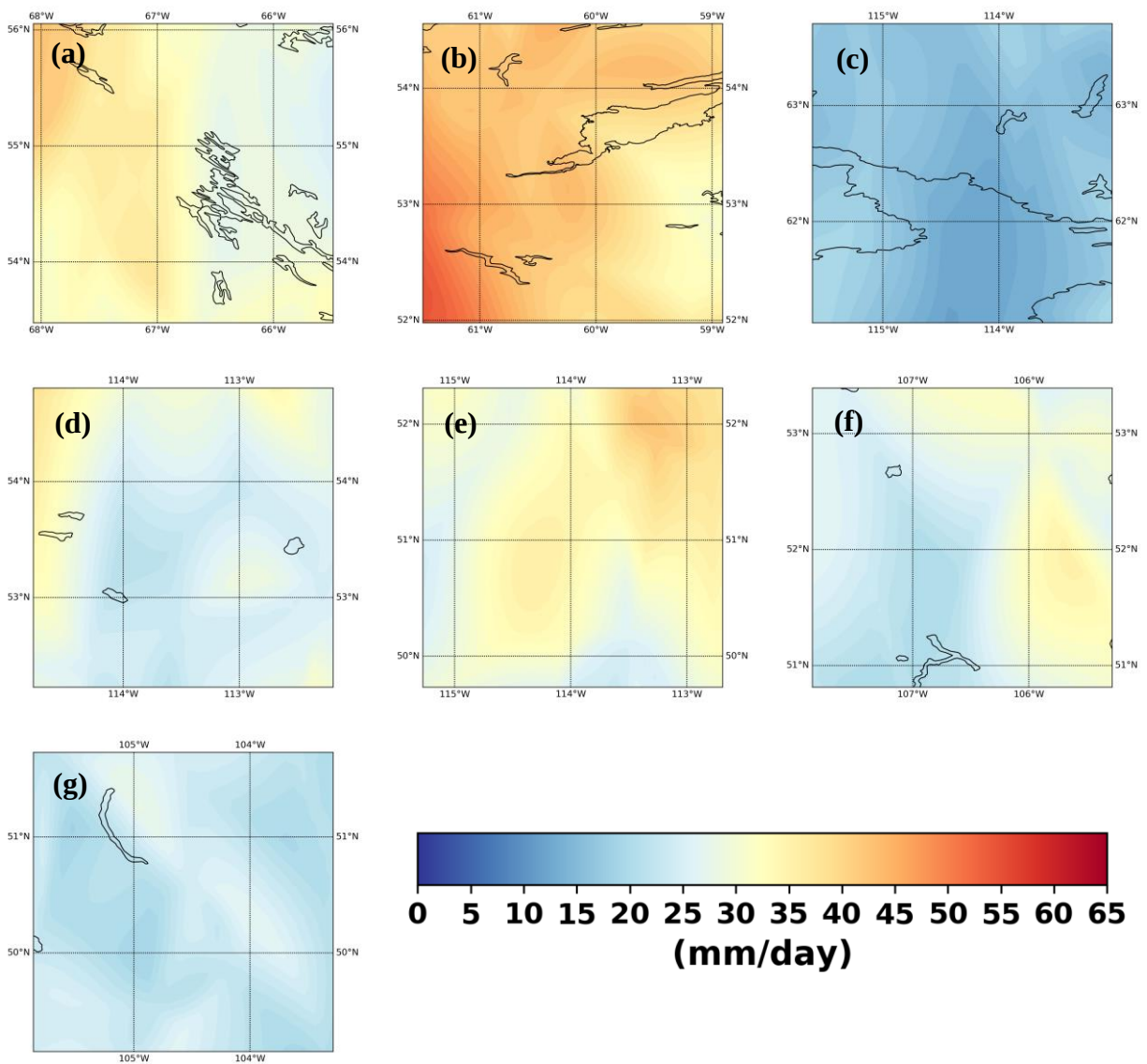


Figure S11: Temporal Correlation between downscaled and observed precipitation for (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

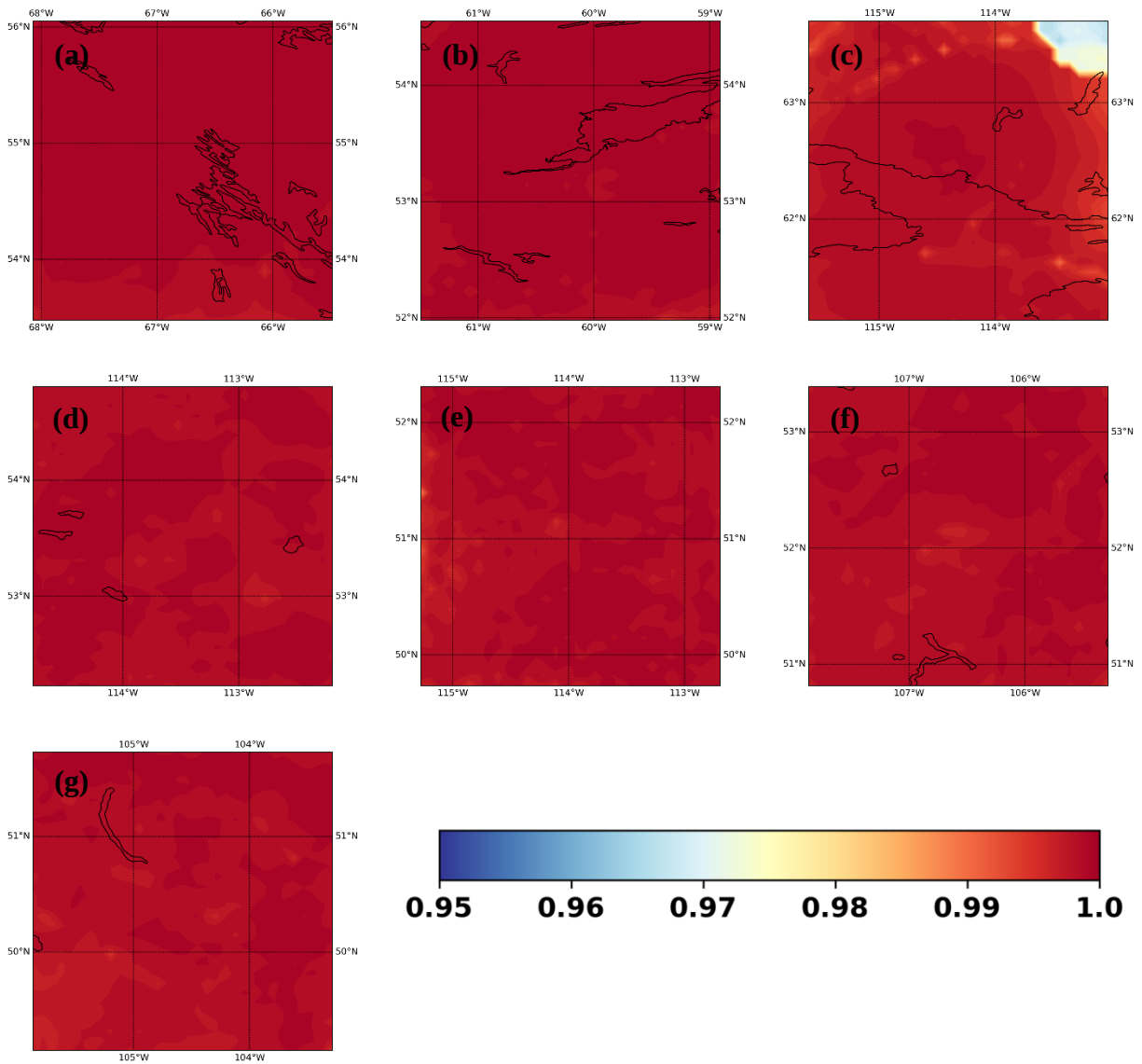


Figure S12: P-value for Kolmogorov-Smirnov test of temporal distribution equivalency between downscaled and observed precipitation for (a) Schefferville, (b) Goose Bay, (c) Yellowknife, (d) Edmonton, (e) Calgary, (f) Saskatoon, (g) Regina

