

Table S1: The estimated 20-yr return values (RV20y) of annual temperature extremes at the 115 long-term stations and changes therein. Positive changes are increases, and negative, decreases.

| Station name | Annual minimum temperatures (TNn) | | | | | | | | | Annual maximum temperatures (TXx) | | | | | | | | | Climatological values (avgTXx, avgTmean, avgTNn denotes the 1961-1990 mean of TXx, Tmean, TNn, respectively) | | | Lat. Long. | |
|----------------|-----------------------------------|--------------|---|---|--|------------------------------------|------------------------------|---------------------|--------------|---|---|--|------------------------------------|------------------------------|------|-------|-----|-----|---|-------|--------|------------|--------|
| | RV20y of TNn in the | | 1910-2010 changes in RV20y of TNn | 1960-2010 changes in RV20y of TNn | Current waiting time* of RV20yP1 (years) | Most suitable GEV model** | NL trend order k*** | RV20y of TXx in the | | 1910-2010 changes in RV20y of TXx | 1960-2010 changes in RV20y of TXx | Current waiting time* of RV20yP1 (years) | Most suitable GEV model** | NL trend order k*** | | | | | | | | | |
| | 1910 climate | 2010 climate | | | | | | 1910 climate | 2010 climate | | | | | | | | | | | | | | |
| | (RV20yP1) | (RV20yP5) | deg.C | %avgTNn | deg.C | %avgTNn | (RV20yP1) | (RV20yP5) | deg.C | %avgTXx | deg.C | %avgTXx | | | | | | | | | | | |
| AGASSIZ | -18.83 | -18.83 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 36.99 | 36.99 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.26 | 9.39 | -10.08 | 49.25 | -121.8 |
| BARKERVILLE | -45.43 | -40.26 | 5.17 | 59.2 | 2.58 | 29.5 | 636.9 | 211 | 0 | 32.83 | 32.83 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31 | 9.57 | -8.74 | 53.07 | -121.5 |
| BELLA COOLA | -25.25 | -22.76 | 2.49 | 24.8 | 1.25 | 12.5 | 80.0 | 211 | 0 | 36.41 | 36.41 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 24.53 | 5.28 | -10.03 | 52.37 | -126.7 |
| CRANBROOK | -39.72 | -35.59 | 4.14 | 24.4 | 2.07 | 12.2 | 999.0 | 211 | 0 | 36.9 | 36.9 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.43 | 7.84 | -16.97 | 49.62 | -115.8 |
| CRESTON | -27.08 | -27.08 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 38 | 38 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 24.57 | 7.04 | -16.68 | 49.1 | -116.5 |
| DARFIELD | -42.07 | -34.78 | 7.29 | 27.1 | 3.64 | 13.5 | 999.0 | 211 | 0 | 40.01 | 40.01 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 25.88 | -1.41 | -26.93 | 51.3 | -120.2 |
| FAUQUIER | -30.74 | -24.04 | 6.7 | 31.8 | 3.35 | 15.9 | 999.0 | 211 | 0 | 37.28 | 37.28 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.08 | 6.21 | -21.04 | 49.87 | -118.1 |
| FORT ST JAMES | -48.37 | -42.86 | 5.52 | 14.0 | 2.76 | 7.0 | 999.0 | 211 | 0 | 34.73 | 34.73 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 20.38 | -5.15 | -39.32 | 54.45 | -124.3 |
| GLACIER | -39.38 | -34.09 | 5.29 | 13.9 | 2.65 | 7.0 | 999.0 | 211 | 0 | 28.19 | 31.24 | 3.05 | 9.9 | -0.57 | -1.8 | 2.3 | 311 | 1.1 | 30.85 | 2.78 | -38.02 | 51.3 | -117.5 |
| GOLDEN | -42.51 | -42.51 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 36.57 | 36.57 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.34 | 3.88 | -37.59 | 51.3 | -117 |
| GRAND FORKS | -38.84 | -32.77 | 6.06 | 17.3 | 3.03 | 8.6 | 999.0 | 211 | 0 | 41.3 | 39.64 | -1.67 | -5.0 | -0.83 | -2.5 | 271.8 | 211 | 0 | 33.68 | 5.04 | -35.08 | 49.03 | -118.5 |
| KAMLOOPS | -34.1 | -34.1 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 40.32 | 40.32 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.6 | 10.2 | -12.86 | 50.7 | -120.5 |
| KASLO | -26.37 | -26.37 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 34.79 | 37.22 | 2.42 | 8.5 | 1.21 | 4.2 | 3.2 | 211 | 0 | 28.63 | 9.93 | -10.45 | 49.92 | -116.9 |
| KELOWNA | -36.39 | -28.92 | 7.46 | 29.8 | 3.73 | 14.9 | 999.0 | 211 | 0 | 40.53 | 39.56 | -0.96 | -2.7 | 0.68 | 1.9 | 179.0 | 311 | 1.1 | 35.99 | 7.47 | -25.03 | 49.87 | -119.5 |
| PENTICTON | -25.6 | -22.4 | 3.2 | 18.0 | 1.6 | 9.0 | 270.8 | 211 | 0 | 39.03 | 39.03 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 36.32 | 9.18 | -17.73 | 49.47 | -119.6 |
| PRINCE GEORGE | -50.73 | -42.36 | 8.36 | 27.5 | 4.18 | 13.7 | 999.0 | 211 | 0 | 33.68 | 35.45 | 1.77 | 4.9 | 0.89 | 2.5 | 4.8 | 211 | 0 | 36.23 | 6.04 | -30.41 | 53.88 | -122.7 |
| PRINCE RUPERT | -23.49 | -20.68 | 2.81 | 11.7 | 1.41 | 5.9 | 609.8 | 211 | 0 | 30.71 | 28.35 | -2.36 | -6.6 | -1.18 | -3.3 | 124.5 | 211 | 0 | 35.53 | 8.02 | -24.06 | 54.28 | -130.5 |
| PRINCETON | -40.22 | -40.22 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 39.12 | 39.12 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 36.72 | 7.57 | -26.85 | 49.47 | -120.5 |
| QUATSINO | -13.11 | -11.27 | 1.84 | 9.3 | 0.92 | 4.7 | 48.2 | 211 | 0 | 31.94 | 31.94 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.94 | 8.02 | -19.75 | 50.53 | -127.7 |
| QUESNEL | -45.31 | -41.55 | 3.76 | 19.3 | 1.88 | 9.6 | 999.0 | 211 | 0 | 37.64 | 37.64 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 34.33 | 7.49 | -19.49 | 53.03 | -122.5 |
| SALMON ARM | -36.92 | -31.43 | 5.49 | 27.3 | 2.74 | 13.6 | 999.0 | 211 | 0 | 39.41 | 37.75 | -1.65 | -5.0 | -0.83 | -2.5 | 329.6 | 211 | 0 | 32.74 | 7.32 | -20.11 | 50.68 | -119.2 |
| SHAWNIGAN LAKE | -15.44 | -15.44 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.96 | 36.09 | 2.13 | 7.2 | 1.07 | 3.6 | 2.9 | 211 | 0 | 29.78 | 2.25 | -32.75 | 48.65 | -123.6 |
| STEWART | -29.01 | -25.16 | 3.85 | 11.2 | 1.92 | 5.6 | 999.0 | 211 | 0 | 30.8 | 34.3 | 3.5 | 13.1 | 1.75 | 6.6 | 2.0 | 211 | 0 | 26.69 | -0.16 | -34.49 | 55.93 | -130 |
| TERRACE | -25.07 | -22.43 | 2.64 | 10.2 | 4.84 | 18.8 | 999.0 | 311 | 1.9 | 34.05 | 36.29 | 2.24 | 6.0 | 1.12 | 3.0 | 3.4 | 211 | 0 | 37.38 | 8.75 | -25.81 | 54.47 | -128.6 |
| VANCOUVER | -17.51 | -14.75 | 2.77 | 9.8 | 1.38 | 4.9 | 635.6 | 211 | 0 | 29.71 | 32.38 | 2.67 | 8.8 | 1.34 | 4.4 | 2.4 | 211 | 0 | 30.31 | 3.17 | -28.31 | 49.2 | -123.2 |
| VAVENBY | -46.09 | -36 | 10.09 | 33.1 | 5.05 | 16.6 | 999.0 | 211 | 0 | 40.25 | 38.47 | -1.77 | -5.0 | -0.89 | -2.5 | 999.0 | 211 | 0 | 35.75 | 6.24 | -30.48 | 51.58 | -119.8 |
| VERNON | -32.82 | -32.82 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 38.81 | 38.81 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 29.05 | 1.51 | -30.06 | 50.23 | -119.2 |
| VICTORIA | -15.62 | -13.64 | 1.98 | 6.1 | 0.99 | 3.0 | 55.6 | 211 | 0 | 35.48 | 35.48 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.58 | 4.76 | -32.48 | 48.45 | -123.3 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|--------|-------|------|------|------|-------|-----|-----|-------|-------|-------|------|-------|------|-------|-----|-----|-------|--------|--------|-------|--------|
| DAWSON | -56.56 | -56.56 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.81 | 34.14 | 1.33 | 4.4 | 0.66 | 2.2 | 6.5 | 211 | 0 | 30.31 | -5.3 | -51.73 | 64.05 | -139.1 |
| FORT SIMPSON | -53.12 | -50.15 | 2.97 | 6.5 | 1.49 | 3.3 | 132.0 | 211 | 0 | 33.06 | 35.31 | 2.25 | 7.1 | 0.29 | 0.9 | 5.1 | 311 | 1.1 | 31.55 | -3.51 | -45.59 | 61.77 | -121.2 |
| FORT SMITH | -55.48 | -46.36 | 9.12 | 20.1 | 4.56 | 10.0 | 999.0 | 211 | 0 | 35.21 | 35.21 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.49 | -2.63 | -45.38 | 60.02 | -112 |
| HAY RIVER | -49.78 | -41.54 | 8.23 | 18.9 | 6.58 | 15.1 | 999.0 | 311 | 1.2 | 32.95 | 35.58 | 2.63 | 8.4 | 1.31 | 4.2 | 2.9 | 211 | 0 | 31.33 | -3.1 | -43.62 | 60.83 | -115.8 |
| BANFF | -47.96 | -43.63 | 4.33 | 11.1 | 2.16 | 5.5 | 302.1 | 211 | 0 | 33.44 | 33.44 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.49 | 2.69 | -39 | 51.2 | -115.6 |
| BEAVERLODGE | -46.33 | -43.27 | 3.07 | 8.0 | 1.53 | 4.0 | 999.0 | 211 | 0 | 34.03 | 34.03 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.56 | 2.39 | -38.61 | 55.2 | -119.4 |
| CALGARY | -40.81 | -37.69 | 3.12 | 8.0 | 1.56 | 4.0 | 999.0 | 211 | 0 | 34.95 | 34.95 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.18 | 2.05 | -39.05 | 51.12 | -114 |
| CALMAR | -50.44 | -43.89 | 6.56 | 17.1 | 3.28 | 8.5 | 999.0 | 211 | 0 | 34.72 | 34.72 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.95 | 2.46 | -38.37 | 53.28 | -113.9 |
| CAMPSIE | -52.1 | -46.89 | 5.21 | 15.0 | 2.6 | 7.5 | 999.0 | 211 | 0 | 35.08 | 35.08 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.24 | 2.99 | -34.76 | 54.13 | -114.7 |
| EDMONTON | -50.59 | -43.99 | 6.6 | 19.7 | 3.3 | 9.9 | 999.0 | 211 | 0 | 33.82 | 35.29 | 1.47 | 4.5 | 0.73 | 2.2 | 5.5 | 211 | 0 | 32.62 | 4.23 | -33.47 | 53.57 | -113.5 |
| EDSON | -48.39 | -43.84 | 4.55 | 12.1 | 2.27 | 6.0 | 999.0 | 211 | 0 | 36.86 | 34.2 | -2.66 | -7.8 | 0.11 | 0.3 | 999.0 | 311 | 1.9 | 34.15 | 0.38 | -37.67 | 53.58 | -116.5 |
| FORT CHIPEWYAN | -50.18 | -50.18 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.87 | 34.6 | 1.73 | 6.8 | 0.86 | 3.4 | 3.2 | 211 | 0 | 25.39 | -1.56 | -39.09 | 58.77 | -111.1 |
| FORT MCMURRAY | -53.89 | -43.24 | 10.64 | 29.3 | 5.32 | 14.7 | 999.0 | 211 | 0 | 36.56 | 36.56 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 36.67 | 5.8 | -36.29 | 56.65 | -111.2 |
| GLEICHEN | -44.54 | -40.91 | 3.64 | 10.4 | 1.82 | 5.2 | 999.0 | 211 | 0 | 36.98 | 36.98 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.11 | 4.85 | -34.93 | 50.88 | -113.1 |
| LACOMBE | -48.32 | -42.65 | 5.67 | 15.9 | 2.84 | 7.9 | 999.0 | 211 | 0 | 36.17 | 36.17 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.16 | 1.83 | -35.77 | 52.45 | -113.8 |
| LETHBRIDGE | -43.41 | -38.54 | 4.86 | 11.0 | 2.43 | 5.5 | 999.0 | 211 | 0 | 37.13 | 37.13 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 27.04 | -1.63 | -44.31 | 49.63 | -112.8 |
| MEDICINE HAT | -46.28 | -39.96 | 6.32 | 16.0 | 3.16 | 8.0 | 999.0 | 211 | 0 | 38.99 | 39.8 | 0.81 | 2.6 | -0.49 | -1.6 | 9.9 | 311 | 1.8 | 30.92 | 1.9 | -39.59 | 50.02 | -110.7 |
| OLDS | -43.73 | -38.17 | 5.56 | 13.3 | 2.78 | 6.7 | 999.0 | 211 | 0 | 34.88 | 34.88 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.67 | 0.51 | -41.71 | 51.78 | -114.1 |
| PINCHER CREEK | -41.64 | -41.64 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 34.78 | 36.09 | 1.31 | 4.2 | 0.66 | 2.1 | 4.3 | 211 | 0 | 30.86 | 1.99 | -38.89 | 49.52 | -114 |
| RANFURLY | -50.25 | -42.53 | 7.72 | 13.7 | 3.86 | 6.9 | 999.0 | 211 | 0 | 32.15 | 35.62 | 3.47 | 64.5 | -0.33 | -6.1 | 2.7 | 311 | 1.1 | 5.38 | -21.34 | -56.19 | 53.42 | -111.7 |
| INDIAN HEAD | -46.02 | -41.85 | 4.17 | 10.8 | 2.09 | 5.4 | 999.0 | 211 | 0 | 38.67 | 38.67 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 34.46 | 1.25 | -38.78 | 50.55 | -103.7 |
| LOST RIVER | -46.31 | -46.31 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 38.38 | 38.38 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 37.02 | 3.88 | -36.19 | 53.28 | -104.3 |
| MOOSE JAW | -44.47 | -40.74 | 3.73 | 9.7 | 1.86 | 4.9 | 999.0 | 211 | 0 | 37.14 | 39.43 | 2.29 | 6.3 | -0.24 | -0.7 | 3.3 | 311 | 2 | 36.1 | 2.93 | -38.26 | 50.33 | -105.6 |
| NORTHBATTLEFORD | -48.44 | -44.08 | 4.37 | 10.5 | 2.18 | 5.2 | 999.0 | 211 | 0 | 36.86 | 38.09 | 1.23 | 4.3 | 0.62 | 2.2 | 6.2 | 211 | 0 | 28.37 | -3.6 | -41.55 | 52.77 | -108.3 |
| OUTLOOK | -47.17 | -42.82 | 4.35 | 11.9 | 2.17 | 5.9 | 632.3 | 211 | 0 | 38.95 | 38.95 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 35.42 | 3.73 | -36.52 | 51.48 | -107.1 |
| PRINCE ALBERT | -51.52 | -46.09 | 5.43 | 13.9 | 2.71 | 6.9 | 999.0 | 211 | 0 | 35.76 | 36.06 | 0.29 | 0.8 | -1.04 | -3.0 | 15.3 | 311 | 2 | 34.41 | 2.1 | -39.06 | 53.22 | -105.7 |
| REGINA | -46.22 | -42.42 | 3.79 | 9.6 | 1.9 | 4.8 | 999.0 | 211 | 0 | 39.77 | 39.77 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 34.46 | 1.56 | -39.6 | 50.43 | -104.7 |
| SASKATOON | -47.13 | -43.12 | 4.02 | 10.5 | 2.01 | 5.2 | 999.0 | 211 | 0 | 39.15 | 39.15 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.1 | 1.49 | -38.38 | 52.17 | -106.7 |
| SCOTT | -49.5 | -43.67 | 5.83 | 14.7 | 2.92 | 7.4 | 999.0 | 211 | 0 | 38.07 | 38.07 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 36.05 | -0.27 | -39.7 | 52.37 | -108.8 |
| SWIFT CURRENT | -43.69 | -41.46 | 2.24 | 5.3 | 1.12 | 2.7 | 83.1 | 211 | 0 | 38.55 | 38.55 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.53 | 0.9 | -42.04 | 50.27 | -107.7 |
| WASECA | -49.73 | -41.1 | 8.64 | 22.3 | 4.32 | 11.1 | 999.0 | 211 | 0 | 36.92 | 36.92 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 35.24 | 2.32 | -38.81 | 53.13 | -109.4 |
| YELLOW GRASS | -43.44 | -43.44 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 41.15 | 41.15 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.38 | 0.3 | -41.2 | 49.82 | -104.2 |
| BRANDON | -45.63 | -42.84 | 2.79 | 7.0 | 1.39 | 3.5 | 999.0 | 211 | 0 | 40.06 | 40.06 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 36.05 | 2.27 | -39.68 | 49.87 | -99.98 |
| DAUPHIN | -43.72 | -41.21 | 2.51 | 7.3 | 1.26 | 3.7 | 257.6 | 211 | 0 | 33.77 | 36.43 | 2.66 | 7.3 | -0.99 | -2.7 | 3.6 | 311 | 1.1 | 36.23 | 3.67 | -34.37 | 51.1 | -100.1 |
| INDIAN BAY | -43.91 | -43.91 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 35.74 | 35.74 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.61 | 2.17 | -41.59 | 49.62 | -95.2 |

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|-----------------|--------|--------|-------|------|-------|------|-------|-----|-----|-------|-------|-------|-------|-------|------|-------|-----|-----|-------|--------|--------|-------|--------|
| MORDEN EXP FARM | -41.48 | -38.18 | 3.3 | 8.9 | 1.65 | 4.5 | 570.4 | 211 | 0 | 39.07 | 37.41 | -1.67 | -4.7 | -2.44 | -6.9 | 88.0 | 311 | 1.1 | 35.17 | 2.78 | -36.94 | 49.18 | -98.08 |
| PINAWA | -46.2 | -43.68 | 2.53 | 6.4 | 1.26 | 3.2 | 189.0 | 211 | 0 | 36.34 | 36.34 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.57 | 2.21 | -39.31 | 50.18 | -96.07 |
| SPRAGUE | -48.63 | -44.93 | 3.7 | 9.2 | 1.85 | 4.6 | 999.0 | 211 | 0 | 36.74 | 36.74 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.1 | 2.06 | -40.03 | 49.02 | -95.6 |
| THE PAS | -45.27 | -45.27 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 35.75 | 35.75 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 34.76 | 1.76 | -38.23 | 53.97 | -101.1 |
| WINNIPEG | -43.94 | -41.89 | 2.05 | 5.0 | -0.15 | -0.4 | 154.9 | 311 | 1.7 | 38.42 | 38.42 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.07 | 0.06 | -40.72 | 49.92 | -97.23 |
| BEATRICE | -39.2 | -40.93 | -1.73 | -4.1 | -0.86 | -2.0 | 6.6 | 211 | 0 | 34.71 | 34.71 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 28.74 | -0.8 | -42.52 | 45.13 | -79.4 |
| BROCKVILLE | -37.43 | -31.1 | 6.33 | 15.4 | 3.16 | 7.7 | 999.0 | 211 | 0 | 35.59 | 35.59 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 27.37 | -1.43 | -41.12 | 44.6 | -75.67 |
| DRYDEN | -46.61 | -40.98 | 5.63 | 15.4 | 2.82 | 7.7 | 999.0 | 211 | 0 | 35.83 | 35.83 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.35 | 2.67 | -36.65 | 49.78 | -92.83 |
| FORT FRANCES | -43.87 | -43.87 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 37.15 | 37.15 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.38 | 1.61 | -39.77 | 48.65 | -93.43 |
| GORE BAY | -35.08 | -35.08 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 34.46 | 34.46 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.08 | 2.83 | -35.87 | 45.88 | -82.57 |
| HALIBURTON | -42.02 | -42.02 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 35.27 | 35.27 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.67 | 0.99 | -40.01 | 45.03 | -78.53 |
| HARROW | -26.31 | -26.31 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 37.95 | 37.95 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.85 | -0.49 | -39.65 | 42.03 | -82.9 |
| KAPUSKASING | -47.21 | -42.16 | 5.04 | 16.6 | 2.52 | 8.3 | 999.0 | 211 | 0 | 36.26 | 36.26 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 30.25 | 5.46 | -30.35 | 49.42 | -82.47 |
| KENORA | -43.22 | -39.13 | 4.09 | 12.4 | 2.05 | 6.2 | 999.0 | 211 | 0 | 36.07 | 36.07 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 27.61 | -0.21 | -32.9 | 49.78 | -94.37 |
| KINGSTON | -35.22 | -31.37 | 3.85 | 8.2 | 1.92 | 4.1 | 508.4 | 211 | 0 | 33.97 | 35.15 | 1.18 | 36.1 | 0.59 | 18.0 | 6.6 | 211 | 0 | -3.27 | -21.16 | -46.94 | 44.22 | -76.6 |
| LONDON | -31.64 | -28.4 | 3.24 | 10.1 | 0.59 | 1.8 | 929.0 | 311 | 1.1 | 36.89 | 36.89 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.33 | 6.49 | -32.12 | 43.03 | -81.15 |
| MOOSONEE | -45.14 | -42.98 | 2.16 | 7.2 | 1.08 | 3.6 | 236.6 | 211 | 0 | 36.34 | 36.34 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.34 | 6.04 | -29.82 | 51.27 | -80.65 |
| MORRISBURG | -39.52 | -35.62 | 3.9 | 10.2 | 1.95 | 5.1 | 999.0 | 211 | 0 | 35.53 | 35.53 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 26.61 | 0.95 | -38.39 | 44.92 | -75.18 |
| OTTAWA | -36.53 | -30.13 | 6.41 | 18.5 | 5.79 | 16.7 | 999.0 | 311 | 1.4 | 37.52 | 36 | -1.52 | -10.9 | -0.76 | -5.4 | 333.3 | 211 | 0 | 13.98 | -7.34 | -34.74 | 45.38 | -75.72 |
| OWEN SOUND | -33.87 | -28.8 | 5.08 | 23.3 | 2.54 | 11.6 | 435.4 | 211 | 0 | 35.99 | 34.84 | -1.15 | -3.3 | -0.57 | -1.6 | 139.6 | 211 | 0 | 34.97 | 9.57 | -21.83 | 44.58 | -80.93 |
| PETERBOROUGH | -39.94 | -35.56 | 4.38 | 18.6 | 2.19 | 9.3 | 999.0 | 211 | 0 | 35.81 | 35.81 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.94 | 7.6 | -23.52 | 44.23 | -78.37 |
| SIOUX LOOKOUT | -44.98 | -42.53 | 2.46 | 11.4 | 1.23 | 5.7 | 250.4 | 211 | 0 | 36.42 | 36.42 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.77 | 8.96 | -21.56 | 50.12 | -91.9 |
| THUNDER BAY | -42.89 | -38.75 | 4.14 | 10.3 | 2.07 | 5.1 | 999.0 | 211 | 0 | 35.83 | 37.41 | 1.58 | 7.0 | 0.79 | 3.5 | 7.5 | 211 | 0 | 22.47 | -2.11 | -40.22 | 48.37 | -89.33 |
| TORONTO | -28.93 | -24.68 | 4.25 | 12.5 | 2.13 | 6.3 | 999.0 | 211 | 0 | 37.58 | 37.58 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 28.16 | 2.42 | -33.91 | 43.67 | -79.4 |
| BAGOTVILLE | -42.57 | -38.2 | 4.37 | 13.2 | 2.19 | 6.6 | 999.0 | 211 | 0 | 35.69 | 37.39 | 1.7 | 6.0 | 0.85 | 3.0 | 5.1 | 211 | 0 | 28.23 | 2.73 | -33.17 | 48.33 | -71 |
| BEAUCEVILLE | -41 | -41 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 34.79 | 34.79 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.05 | 5.06 | -30.18 | 46.15 | -70.7 |
| BROME | -40.87 | -40.87 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.5 | 34.93 | 1.43 | 137.5 | 0.71 | 68.3 | 4.3 | 211 | 0 | 1.04 | -26.57 | -54.82 | 45.18 | -72.57 |
| LA POCATIERE | -33.63 | -33.63 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 34.15 | 34.15 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.4 | 5.31 | -35.09 | 47.35 | -70.03 |
| LENNOXVILLE | -44.98 | -36.75 | 8.23 | 31.7 | 4.11 | 15.8 | 999.0 | 211 | 0 | 35.33 | 35.33 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 32.71 | 7.51 | -25.96 | 45.37 | -71.82 |
| LES CEDRES | -35.99 | -35.99 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 36.22 | 35.08 | -1.14 | -7.8 | -0.57 | -3.9 | 204.6 | 211 | 0 | 14.62 | -8.87 | -39.31 | 45.3 | -74.05 |
| MONT JOLI | -34.74 | -30.2 | 4.54 | 11.1 | 2.27 | 5.6 | 999.0 | 211 | 0 | 32.96 | 34.5 | 1.54 | 6.7 | 0.77 | 3.3 | 4.7 | 211 | 0 | 23.02 | -2.75 | -40.86 | 48.6 | -68.2 |
| MONTREAL TAVISH | -33.05 | -28.83 | 4.21 | 10.4 | 2.11 | 5.2 | 999.0 | 211 | 0 | 34.6 | 35.48 | 0.88 | 5.9 | 0.44 | 2.9 | 7.0 | 211 | 0 | 15.02 | -8.9 | -40.46 | 45.47 | -73.75 |
| NICOLET | -37.71 | -37.71 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 35.01 | 35.01 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 27.08 | 0.76 | -31.6 | 46.2 | -72.62 |
| QUEBEC | -35.53 | -33.35 | 2.18 | 7.7 | 1.09 | 3.9 | 523.8 | 211 | 0 | 34.46 | 34.46 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.14 | 3.43 | -28.29 | 46.8 | -71.38 |
| TETE BALEINE | -41.36 | -36.25 | 5.11 | 14.7 | 2.55 | 7.3 | 999.0 | 211 | 0 | 28.16 | 31.95 | 3.79 | 11.4 | 1.89 | 5.7 | 2.5 | 211 | 0 | 33.35 | 2.64 | -34.88 | 50.7 | -59.32 |

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--------|--------|------|------|-------|------|-------|-----|---|-------|-------|-------|------|-------|------|------|-----|-----|-------|------|--------|-------|--------|
| CHATHAM MIRA. | -35.99 | -33.53 | 2.46 | 8.4 | 1.23 | 4.2 | 148.0 | 211 | 0 | 35.99 | 36.52 | 0.53 | 1.6 | -0.57 | -1.7 | 11.6 | 311 | 1.9 | 34.19 | 4.65 | -29.28 | 47.02 | -65.47 |
| FREDERICTON | -36.75 | -33.25 | 3.5 | 11.6 | 1.75 | 5.8 | 999.0 | 211 | 0 | 35.66 | 36.83 | 1.17 | 3.5 | 0.58 | 1.7 | 5.9 | 211 | 0 | 33.72 | 5.67 | -30.26 | 45.87 | -66.53 |
| MONCTON | -30.87 | -30.87 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 33.21 | 36.07 | 2.86 | 9.0 | 1.43 | 4.5 | 2.3 | 211 | 0 | 31.93 | 5.4 | -27.66 | 46.1 | -64.68 |
| SAINT JOHN | -31.82 | -34.22 | -2.4 | -8.1 | -1.32 | -4.4 | 5.4 | 121 | 0 | 31.44 | 33.59 | 2.16 | 7.3 | 1.08 | 3.7 | 3.4 | 211 | 0 | 29.55 | 4.65 | -29.78 | 45.32 | -65.88 |
| SUSSEX | -41.53 | -35.07 | 6.46 | 20.4 | 3.23 | 10.2 | 999.0 | 211 | 0 | 32.88 | 36.54 | 3.66 | 11.5 | 1.83 | 5.7 | 1.7 | 211 | 0 | 31.89 | 5.48 | -31.72 | 45.72 | -65.53 |
| HALIFAX | -26.79 | -25.13 | 1.66 | 7.9 | 0.83 | 3.9 | 118.4 | 211 | 0 | 33.2 | 33.2 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 29.9 | 6.76 | -21.13 | 44.65 | -63.58 |
| KENTVILLE | -30.6 | -26.24 | 4.36 | 19.4 | 2.18 | 9.7 | 999.0 | 211 | 0 | 35.26 | 35.26 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 31.82 | 6.91 | -22.45 | 45.07 | -64.48 |
| NAPPAN | -35.34 | -32.78 | 2.56 | 8.9 | 1.28 | 4.5 | 159.5 | 211 | 0 | 32.65 | 32.65 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 29.45 | 5.58 | -28.74 | 45.77 | -64.25 |
| PARRSBORO | -35.14 | -29.34 | 5.8 | 19.6 | 2.9 | 9.8 | 999.0 | 211 | 0 | 29.25 | 30.67 | 1.42 | 4.5 | -0.5 | -1.6 | 4.6 | 311 | 1.1 | 31.66 | 5.95 | -29.6 | 45.4 | -64.33 |
| SABLE ISLAND | -17.5 | -15.61 | 1.89 | 6.5 | 0.95 | 3.3 | 166.8 | 211 | 0 | 26.13 | 26.13 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 24.06 | 1.93 | -29.09 | 43.93 | -60.02 |
| SYDNEY | -29.84 | -24.68 | 5.16 | 40.8 | 2.58 | 20.4 | 999.0 | 211 | 0 | 33.44 | 34.85 | 1.42 | 6.0 | 0.71 | 3.0 | 6.1 | 211 | 0 | 23.53 | 7.62 | -12.65 | 46.17 | -60.05 |
| UPPER STEWIACKE | -37.29 | -34.13 | 3.16 | 14.4 | 1.58 | 7.2 | 174.3 | 211 | 0 | 33.87 | 35.23 | 1.35 | 4.3 | 0.68 | 2.2 | 6.2 | 211 | 0 | 31.33 | 5.81 | -21.93 | 45.22 | -63 |
| YARMOUTH | -21.62 | -20.56 | 1.06 | 6.1 | 0.53 | 3.1 | 47.3 | 211 | 0 | 28.64 | 29.72 | 1.09 | 4.1 | 0.54 | 2.0 | 6.2 | 211 | 0 | 26.77 | 7.03 | -17.27 | 43.83 | -66.08 |
| CHARLOTTETOWN | -30.05 | -27.85 | 2.21 | 8.9 | 1.1 | 4.4 | 253.2 | 211 | 0 | 32.7 | 33.59 | 0.89 | 3.0 | 0.45 | 1.5 | 10.0 | 211 | 0 | 30 | 5.54 | -24.93 | 46.28 | -63.13 |
| BATTLE HARBOUR | -39.28 | -34.4 | 4.88 | 26.0 | 2.44 | 13.0 | 999.0 | 211 | 0 | 27.32 | 38.95 | 11.63 | 41.0 | 8.3 | 29.3 | 1.0 | 311 | 1.3 | 28.36 | 4.98 | -18.74 | 52.25 | -55.6 |
| ST JOHN'S | -26.09 | -21.92 | 4.16 | 19.4 | 2.08 | 9.7 | 509.9 | 211 | 0 | 31.18 | 31.18 | 0 | 0.0 | 0 | 0.0 | 20.0 | 111 | 0 | 26.76 | 4.92 | -21.44 | 47.62 | -52.75 |
| STEPHENVILLE | -30.21 | -26.24 | 3.97 | 13.0 | 1.99 | 6.5 | 687.6 | 211 | 0 | 29.04 | 30.89 | 1.85 | 6.2 | 0.92 | 3.1 | 4.1 | 211 | 0 | 29.87 | 0.41 | -30.59 | 48.53 | -58.55 |

* The number 999 denotes that the waiting time (return period) is estimated to be larger than 999 years.

** The three digits denote the trend in location, scale and shape (from left to right), respectively: 1 stands for no trend, 2 for linear trend, and 3 for non-linear (NL) trend.

*** The NL (non-linear) trend order k=0 indicates that the data series has either a linear trend or no trend.