

## Climate Projections for the Cowichan Valley Regional District

This .zip file contains a complete set of rasters for the “business as usual” (RCP8.5) greenhouse gas emission scenario for the Cowichan Valley Regional District. Rasters are presented for four time periods:

- 1980s (1971-2000)
- 2020s (2011-2040)
- 2050s (2041-2070)
- 2080s (2071-2100)

While the accompanying *Climate Projections for the Cowichan Valley Regional District* report presents tabular results including the median results both for the region as a whole and, in some cases, for three sub-regions, these rasters show the distribution of values across the entire region.

Rasters are included for the following climate indices:

- **Annual Indices**
  - Precipitation
  - Maximum Temperature
  - Minimum Temperature
- **Seasonal Indices**
  - Precipitation
  - Maximum Temperature
  - Minimum Temperature
- **CLIMDEX Indices** (see <http://www.climdex.org/indices.html> for details)
  - CDD – Consecutive dry days
  - CSDI – Cold spell duration index
  - CWD – Consecutive wet days
  - DTR – Daily temperature range
  - FD – Frost days
  - GSL – Growing season length
  - ID – Icing days
  - PRCPTOT – Annual total ppt in wet days
  - R10mm – Annual count of days when ppt ≥ 10mm
  - R20mm – Annual count of days when ppt ≥ 20mm
  - R95pTOT – Annual total ppt on days exceeding the 95<sup>th</sup> percentile
  - R99pTOT – Annual total ppt on days exceeding the 99<sup>th</sup> percentile
  - Rx1day – Single day maximum ppt
  - Rx5day – 5 day maximum ppt
  - SDII – Simple ppt intensity index
  - SU – Summer days
  - TR – Tropical nights
  - TN10p – Percentage of days when coldest temperature < 10<sup>th</sup> percentile
  - TN90p – Percentage of days when coldest temperature > 90<sup>th</sup> percentile
  - TNN – Coldest winter night
  - TNX – Warmest night
  - TX10p – Percentage of days when warmest temperature < 10<sup>th</sup> percentile
  - TX90p – Percentage of days when warmest temperature > 90<sup>th</sup> percentile
  - TXN – Coolest day
  - TXX – Hottest day
  - WSDI – Warm spell duration index
- **Degree Days**
  - CDD – Cooling degree days
  - FDD – Freezing degree days
  - GDD – Growing degree days
  - HDD – Heating degree days
- **Return Periods**
  - PR\_RP20 – 1 in 20 year precipitation
  - TASMAY\_RP20 – 1 in 20 year maximum temperature
  - TASMAY\_RP20 – 1 in 20 year minimum temperature