Downscaled Changes[1] in Ontario by 2050s[2]

- **Average Climate Indicators**
  - **Temperature very likely to increase significantly**
    - Annual: by ~3.6 [1.3~6.9]°C
    - Winter: by ~5.3 [0.9~11.2]°C
    - Summer: by ~2.4 [-0.6~6.0] °C
  - **Cooling degree day (CDD)** increases by ~177 [6 ~ 459]°C or ~167%
  - **Frost Days** decrease by ~31 [-38 ~ 12] days or 19%
  - **Precipitation likely to increase** (low confidence)
    - Annual: by ~11 [-13~34]%
    - Winter: by ~16 [-23~67]%
    - Summer: by ~12 [-37~65]%
- **Extreme Climate Indicators**
  - **Temperature-related**
    - warm-days increase ~59 [10~126] days or 164%
    - warm-nights increase ~70 [23~139] nights or 194%
    - Maximum single heat wave duration increase ~16 [1~50] days or 200%
  - **Precipitation –related** (low confidence)
    - Heavy precipitation days (>10mm/day) increase ~4 [-6~13] days or 17%
    - Very heavy precipitation days (>20mm/day) increase ~2 [-3~6] days or 33%
    - Very wet days (>95 percentile) increase ~2 [-3~8] days or 25%

1 Preliminary results from MOECC funded York University project, under the IPCC AR5 RCP8.5 business as usual projections.

2 2050s is defined as 2041-2070; all changes (except the following one in foot note 3) are calculated as the differences between the 2041-2070 and the averages of the end of last century, 1990s (1981-2010).