Environment Canada cannot provide accurate temperature data for all crime scenes due to microclimates

- Further research is required to create collection standards
- Ability to better utilize environment data has the potential to result in more accurate post-mortem interval ranges

**RESULTS**

- Coniston and Delwood sites varied the most, Skead site varied the least.
- Statistical testing proved significant differences amongst three study sites

**DISCUSSION**

- Microclimate effects such as large bodies of water, changes in elevation, and wind resulted in temperature changes when compared to Environment Canada

**METHODS**

1. Eight study sites vs Environment Canada
2. Collect ambient air temperature in -hour intervals five times daily
3. Tested with ANOVA two-factor and Tukey HSD

**INTRO**

- Environment Canada statistics are often exclusively used in scene reconstruction, ignoring the scene environment
- Literature debates which deviation range from Environment Canada is acceptable: Ex. one says ±0.5°C another says ±5°C

**LEGEND**

- Citizen Scientist
- Expert Scientist
- Environment Canada

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**Figure 1.** Map of study locations in the Greater Sudbury area in proximity to Environment Canada

**Figure 2.** Mean daily temperature Delwood vs Environment Canada

**Figure 3.** Mean daily temperature Coniston vs Environment Canada

**Figure 4.** Mean daily temperature Skead vs Environment Canada

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