

Toronto_60433_2018_Day15to21.csv

The results below are what the student results should look like for the Toronto_60433_2018_Day15to21.csv dataset used in CHM 135 Experiment 1.

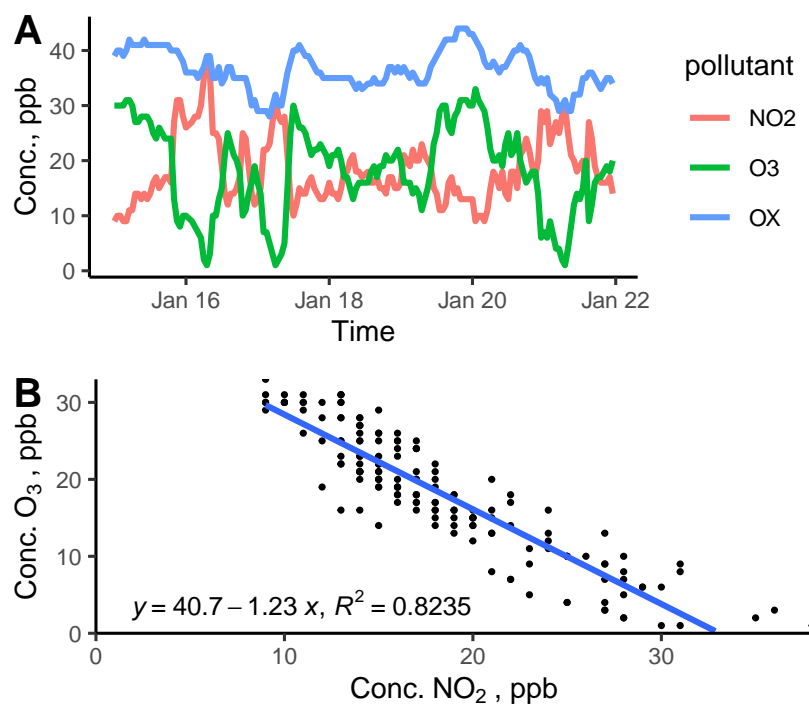


Figure 1: (A) Time series of pollutant concentration. There shouldn't be a linear regression on this plot, if students have done so please note it. (B) Correlation plot of O₃ vs. NO₂; the equation of the line is displayed in the lower left corner.

| pollutant | mean | sd | median | min | max |
|-----------|------|-----|--------|-----|-----|
| NO2 | 18.2 | 6.0 | 17 | 9 | 38 |
| O3 | 18.3 | 8.1 | 19 | 1 | 33 |
| OX | 36.5 | 3.7 | 36 | 28 | 44 |
| NO2_8hr | 18.4 | 4.9 | 17 | 10 | 32 |
| O3_8hr | 18.1 | 7.2 | 18 | 4 | 31 |
| OX_8hr | 36.5 | 3.4 | 36 | 29 | 43 |

Table 1: Summary statistics for 1 hr and 8hr concentration of pollutants, all concentrations are in ppb.

Notes on results:

Students are **not** expected to calculate *mean*, *sd*, and *median* of 8 hr averages. If student *sd* values differ slightly from provided *sd* values, they may have used the *STDEV.P* function rather than *STDEV.S* in Excel calculations. Do not subtract points, but make a note of it.