Toronto_60435_2019_Day185to191.csv

The results below are what the student results should look like for the Toronto_60435_2019_Day185to191.csv dataset used in CHM 135 Experiment 1.
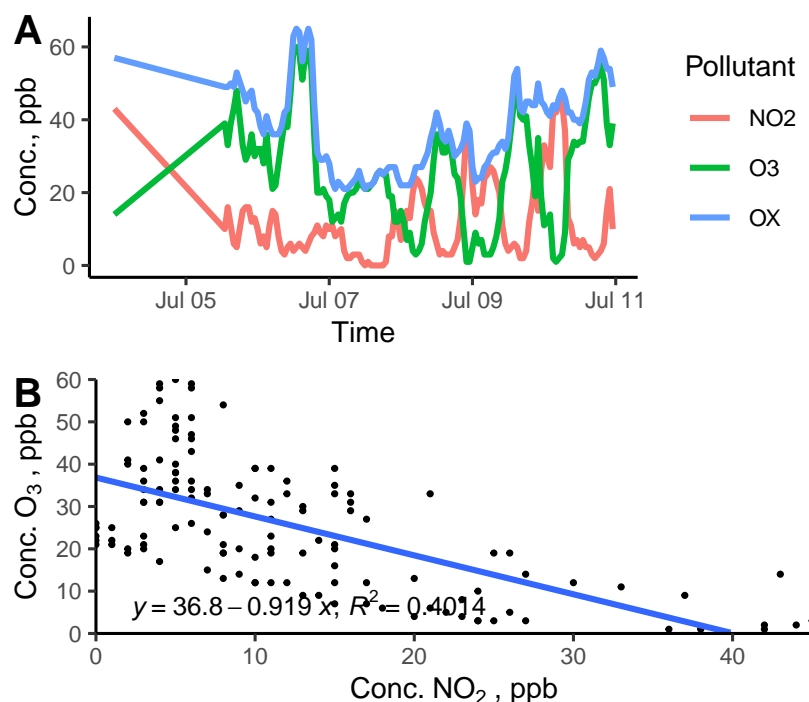

Figure 1: (A) Time series of pollutant concentration. There shouldn't be a linear regression on this plot, if students have done so please note it. (B) Correlation plot of O3 vs. NO2; the equation of the line is displayed in the lower left corner.

In panel B: $y = 36.8 - 0.919\,x$, $R^2 = 0.404$

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

Pollutant	mean	sd	median	min	max
NO2	12.0	10.5	9	0	45
O3	25.8	15.2	25	1	60
OX	37.8	11.8	38	21	65
NO2_8hr	11.8	8.5	9	0	38
O3_8hr	25.3	13.3	24	5	57
OX_8hr	37.1	10.5	37	22	62

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 substract points, but make a note of it.