Toronto_60433_2018_Day181to187.csv

The results below are what the student results should look like for the Toronto_60433_2018_Day181to187.csv dataset used in CHM 135 Experiment 1.
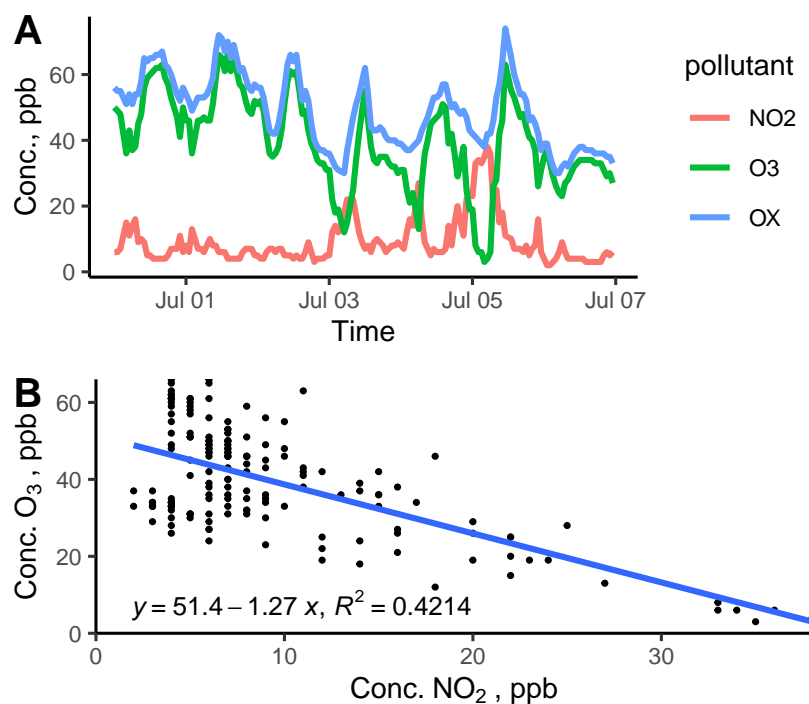

Figure 1: (A) Time series of pollutant concentration. There shouldn't be a linear regression on this plot, if students have done so please note it. (B) Correlation plot of O3 vs. NO2; the equation of the line is displayed in the lower left corner.

$y = 51.4 - 1.27\ x,\ R^2 = 0.4214$

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

pollutant	mean	sd	median	min	max
NO2	9.3	7.2	7	2	38
O3	39.6	14.0	38	3	66
OX	48.9	10.8	50	30	74
NO2_8hr	9.4	6.3	7	3	33
O3_8hr	39.6	12.5	40	7	64
OX_8hr	49.0	9.9	50	32	69

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* funcation rather than *STDEV.S* in Excel calculations. Do not substract points, but make a note of it.