

## ***Interactive comment on “Application of Open Path Fourier Transform Infrared Spectroscopy (OP-FTIR) to Measure Greenhouse Gas Concentrations from Agricultural Soils” by C.-H. Lin et al.***

**C.-H. Lin et al.**

lin471@purdue.edu

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The mixing ratios of N<sub>2</sub>O (ppbv) and CO<sub>2</sub> (ppmv) that were determined by S-OPS and calculated from OP-FTIR spectra were shown in the Figure-7. The measured and calculated mixing ratios needed to be corrected by the humidity content in the air (dry air correction). The original Figure-7 showed the dry-air corrected concentrations of N<sub>2</sub>O (both from S-OPS and FTIR) and CO<sub>2</sub> from S-OPS, but CO<sub>2</sub> concentrations that were calculated from OP-FTIR were not corrected by humidity content by accident. We updated the Figure-7 (attached) with the dry-air corrected CO<sub>2</sub> concentrations that

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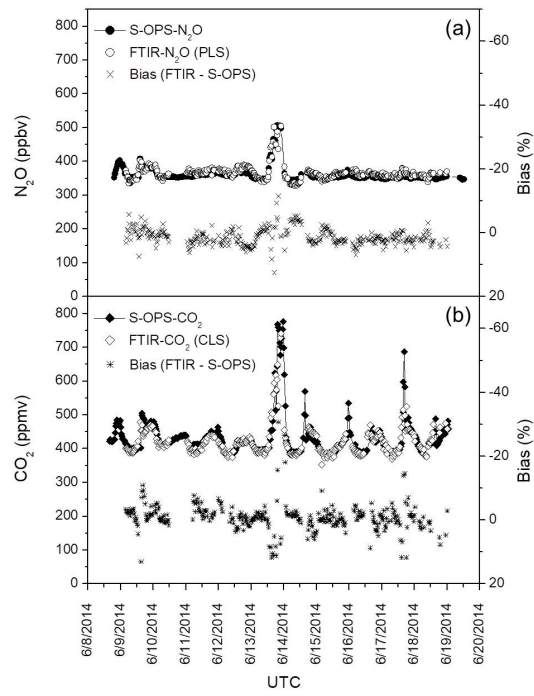
were calculated from FTIR spectra (FTIR-CO<sub>2</sub> CLS).

For the caption of the Figure-2, the air was considered well-mixed when the mean wind velocity was above 1.5 m/s instead of 1.7 m/s.

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**Fig. 1.** The updated Figure-7: N<sub>2</sub>O and CO<sub>2</sub> concentrations from 9th to 19th in June 2014.