

***Interactive comment on “Attribution of N<sub>2</sub>O sources in a grassland soil with laser spectroscopy based isotopocule analysis” by Erkan Ibraim et al.***

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We appreciate the comment of Klaus Schäfer and agree that both approaches, tunnel / FTIR and TREX-QCLAS / FLEXPART-COSMO, can be applied to quantify areal N<sub>2</sub>O emissions from grassland sites. In addition, a second technique, coupled flux-chambers and GC-ECD, were used in our study, and average N<sub>2</sub>O fluxes determined with five chambers agree with TREX-QCLAS / FLEXPART-COSMO (and tunnel / FTIR) results (SI Fig. 2). To acknowledge the technique used by Klaus Schäfer and co-authors, we will refer to their work in our revised manuscript.

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