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Dear AMT Editorial Board and Reviewers,

first of all we would like to thank the referees for the constructive and friendly review. Together with this reply we submit the revised manuscript entitled *Methane retrieval from airborne HySpex observations in the short-wave infrared* for publication in the EGU Journal AMT. The constructive criticism and useful comments have been instrumental in enhancing the manuscript's overall clarity. The manuscript has undergone substantial revisions in response to the reviewers comments received during the discussion phase. More specifically, the manuscript has been consolidated in some areas and expanded in others, as suggested by the reviewers' comments. Two new sections were created, i. e., Sec. 3.3 titled *Statistical significance of results* and Sec. 3.4 *Errors and correlations*. Both analyze the retrieval results in a more rigorous manner as requested by the reviewers. More details on changes made in response to the reviews are described in the individual response letters.

With best regards,

Philipp Hochstaffl and co-authors