



## **TCCON measurements of atmospheric GHG's**

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A network of ground-based, sun-viewing, near-IR, Fourier transform spectrometers has been established to accurately measure atmospheric greenhouse gases such as CO<sub>2</sub>, CO, N<sub>2</sub>O, and CH<sub>4</sub>. The data have been used for satellite validation, modeling purposes, and also spectroscopy assessment. High accuracy is achieved by using column O<sub>2</sub> as a reference, and by calibrating against in situ aircraft profiles obtained over the TCCON sites. Current limitations to the accuracy and precision will be discussed.