



Ground-based FTIR CO₂ and CH₄ remote sensing and satellite validation from Wollongong, Australia.

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We describe the new TCCON site located at Wollongong, Australia (34.5°S, 150°E), which provides important southern hemisphere mid-latitude validation of the OCO and GOSAT satellites. The Wollongong site has been performing solar FTS measurements as a member of NDACC since 1996, but recently underwent an instrument upgrade to enable NIR measurements and the high-precision necessary for satellite validation. Here we discuss the time-series of measurements obtained in the NIR since the 1st measurements made in May 2008. Quantitative and qualitative analysis of the time series of xCO₂ and xCH₄, determined via NIR solar remote sensing are presented.