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# In situ FTIR measurements of atmospheric trace gases and comparison to AGAGE and CSIRO LoFlo measurements at Cape Grim, Australia

N.M. Deutscher (1), D.W.T. Griffith (1), P. Krummel (2), A.K. Petersen (3), J. Notholt (3), L.P. Steele (2), and P.J. Fraser (2)

(1) School of Chemistry, University of Wollongong, Wollongong, Australia (nmd03@uow.edu.au), (2) CSIRO Marine and Atmospheric Research, Aspendale, Victoria, Australia, (3) Institute of Environmental Physics, University of Bremen, Bremen, Germany

We have designed and built an FTIR system based on a Bruker IRCube, capable of continuous, simultaneous, high-precision and accuracy in situ measurements of $CO_2$, $CH_4$, $N_2O$, CO and delta$^{13}CO_2$. The precision and measurement repeatability for $CO_2$ and $CH_4$ is better than 0.05