



Supplement of

Calculations of automatic chamber flux measurements of methane and carbon dioxide using short time series of concentrations

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Figure S1: Flux measurement example of $\rm CH_4$ (top) and $\rm CO_2$ (bottom) from chamber 3 at Adventdalen, 30 July 2013, 14:20 LT.



Figure S2: Flux measurement example of $\rm CH_4$ (top) and $\rm CO_2$ (bottom) from chamber 4 at Stordalen, 07 August 2012, 15:54 LT.



Figure S3: Flux measurement example of $\rm CH_4$ (top) and $\rm CO_2$ (bottom) from chamber 3 at Kobbefjord, 05 July 2012, 18:20 LT.



Figure S4: Flux measurement example of $\rm CH_4$ (top) and $\rm CO_2$ (bottom) from chamber 4 at Fäjemyr, 19 June 2008, 02:30 LT.



Figure S5: Histograms of flux estimates against reference flux for all chambers of Adventdalen. (a) CH_4 , exponential. (b) CH_4 , NDFE. (c) CO_2 , exponential.



Figure S6: Histograms of flux estimates against reference flux for all chambers of Zackenberg. (a) CH_4 , exponential. (b) CH_4 , NDFE. (c) CO_2 , exponential.



Figure S7: Histograms of flux estimates against reference flux for all chambers of Stordalen. (a) CH_4 , exponential. (b) CH_4 , NDFE. (c) CO_2 , exponential.



Figure S8: Histograms of flux estimates against reference flux for all chambers of Kobbefjord. (a) CH_4 , exponential. (b) CH_4 , NDFE. (c) CO_2 , exponential.



Figure S9: Histograms of flux estimates against reference flux for all chambers of Fäjemyr. (a) CH_4 , exponential. (b) CH_4 , NDFE. (c) CO_2 , exponential.



Figure S10: Curvature correlation (a), and curvature difference against PAR (b) of data from chamber 2 at Adventdalen. Error bars indicate standard errors as calculated by the least-squares fit.



Figure S11: Curvature correlation (a), and curvature difference against PAR (b) of data from chamber 1 at Zackenberg. Error bars indicate standard errors as calculated by the least-squares fit.



Figure S12: Curvature correlation (a), and curvature difference against PAR (b) of data from chamber 6 at Sordalen. Error bars indicate standard errors as calculated by the least-squares fit.



Figure S13: Curvature correlation (a), and curvature difference against PAR (b) of data from chamber 2 at Kobbefjord. Error bars indicate standard errors as calculated by the least-squares fit.



Figure S14: Curvature correlation (a), and curvature difference against PAR (b) of data from chamber 4 at Fäjemyr. Error bars indicate standard errors as calculated by the least-squares fit.