

Supplementary Figures to:

5 **Assessment of ^{222}Rn progeny loss in long tubing based on static filter measurements in the laboratory and in the field**

Ingeborg Levin¹, Dominik Schmithüsen¹, Alex Vermeulen²

¹Institut für Umweltphysik (IUP), Heidelberg University, 69120 Heidelberg, Germany

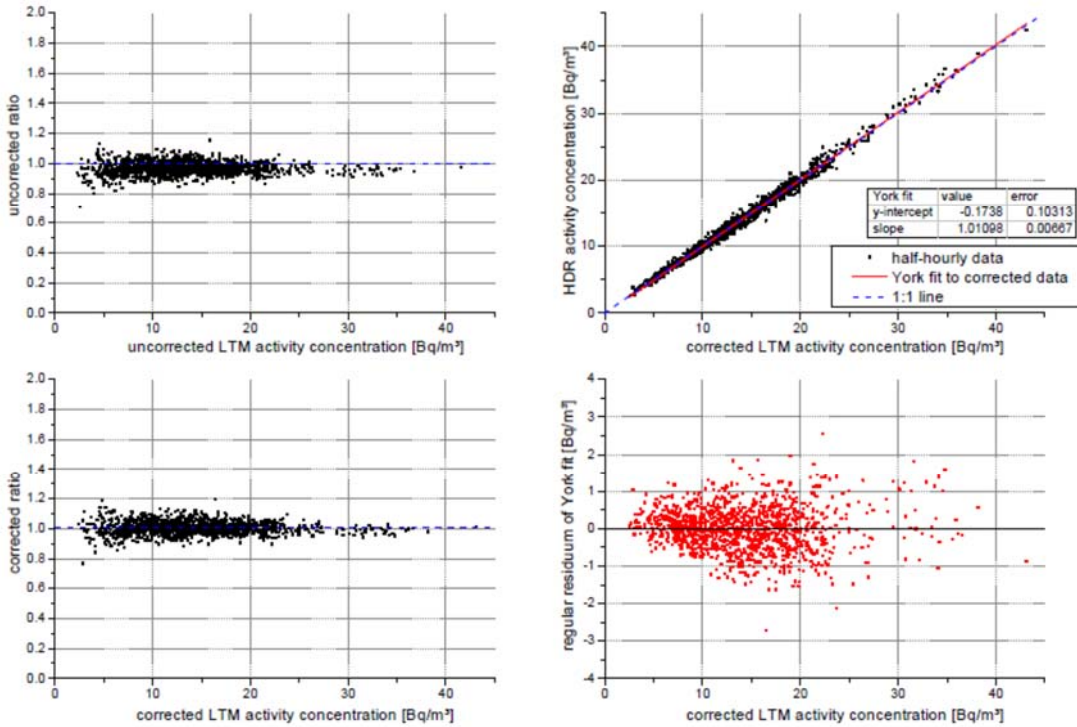
²Energy research Centre of the Netherlands (ECN), 1755LE Petten, The Netherlands, now at: ICOS ERIC - Carbon Portal, Lund, Sweden

10 *Correspondence to:* Ingeborg Levin (Ingeborg.Levin@iup.uni-heidelberg.de)

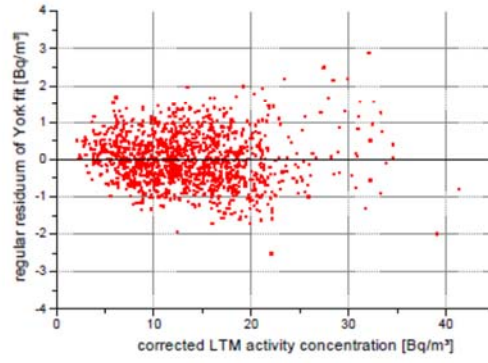
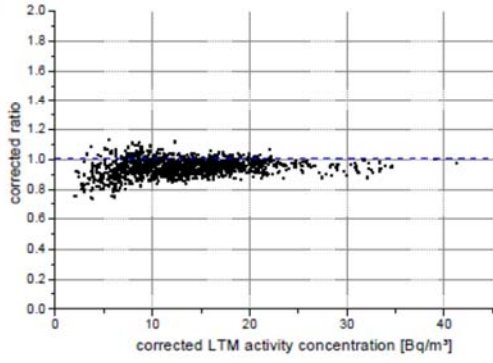
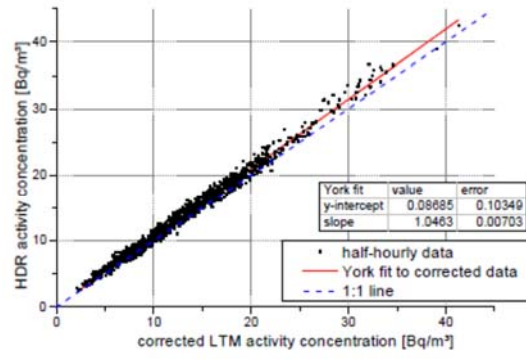
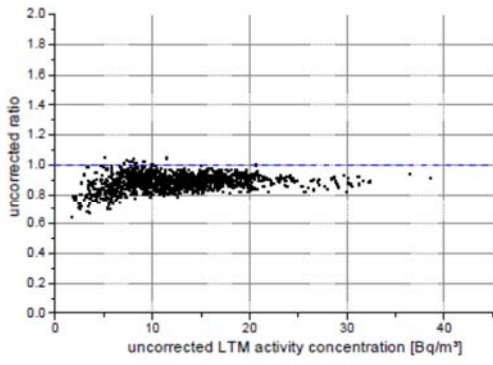
Supplementary Figures S1-S9:

5 Evaluation of ^{214}Po activity concentrations using the empirical correction functions Eqs. 1 and 2 for loss of ^{222}Rn progeny in Decabon tubing of 8.2 mm ID and various lengths (16 m to 200 m). The upper left panels show the ratios between the line test monitor (LTM) sampling air via the Decabon tubing and the routine monitor (HD-R) sampling via a 0.5m Teflon tube, the lower left panels show the same ratio after correction of the LTM activities, the upper right panels show the correlation between HD-R and corrected LTM activity concentrations, the lower right panels display the residuum of activity concentrations from the fitted regression lines in the upper right panels.

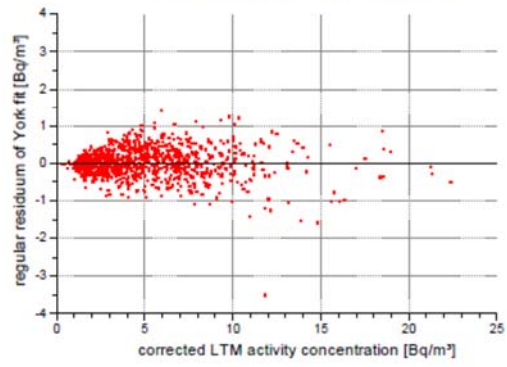
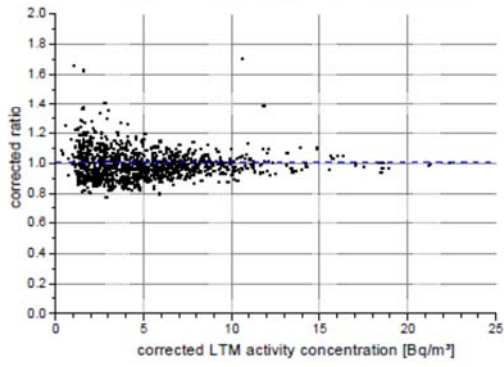
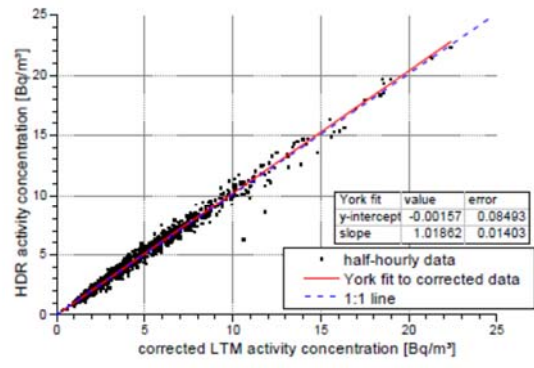
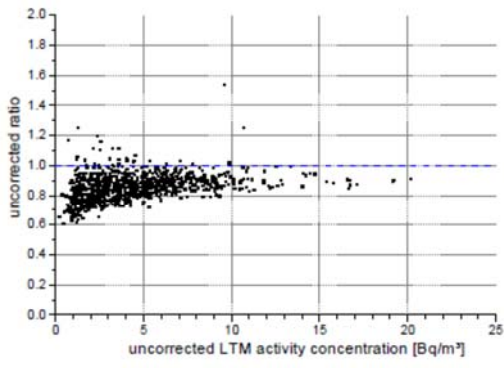
16m LTM correction and evaluation



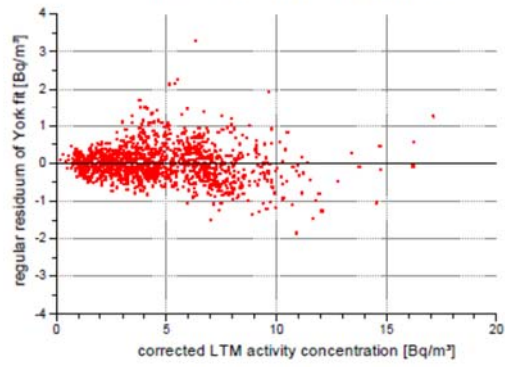
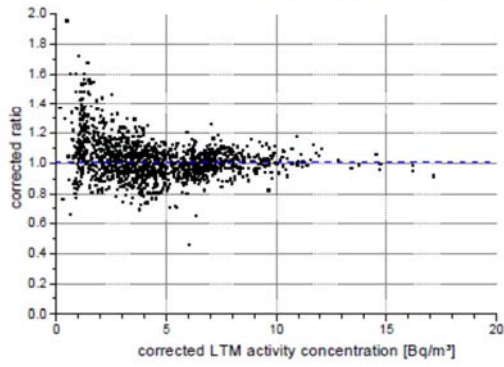
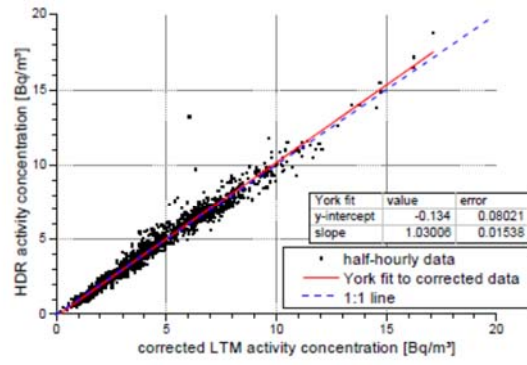
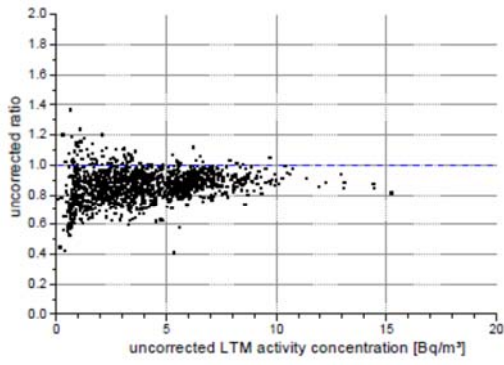
30m LTM correction and evaluation



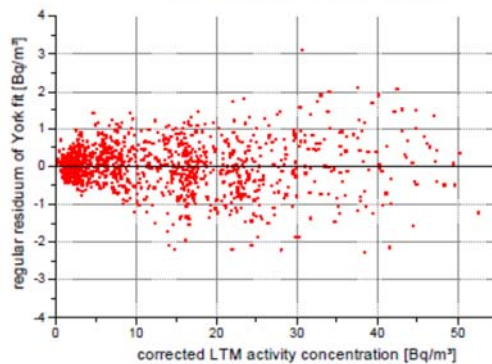
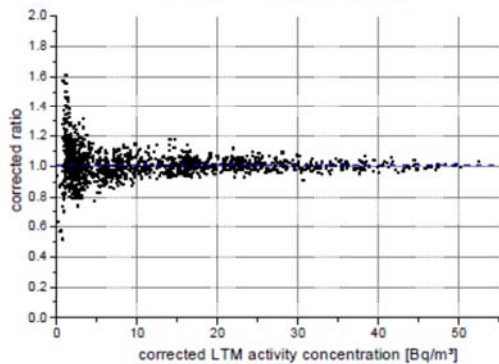
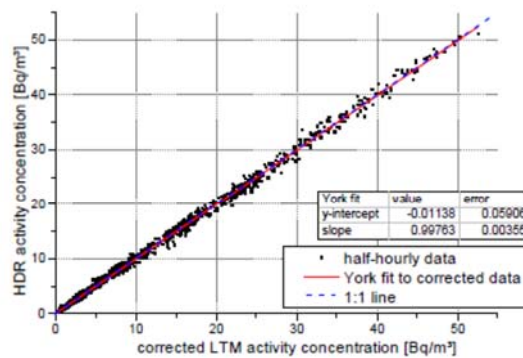
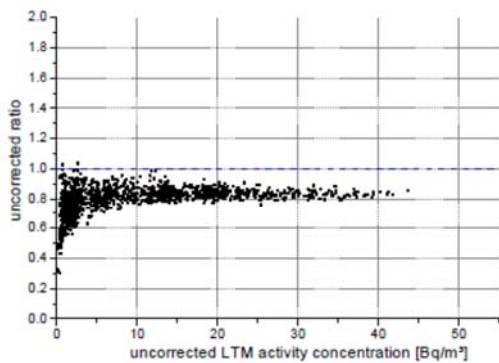
46m LTM correction and evaluation



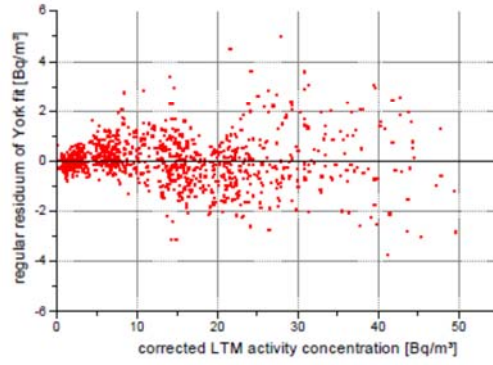
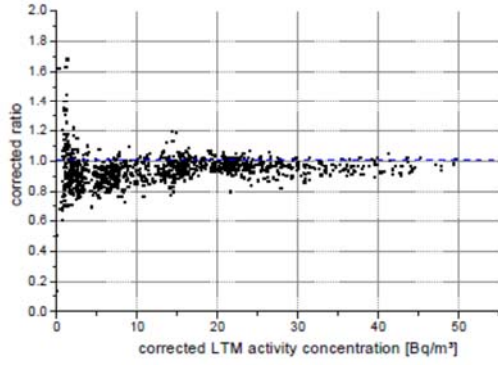
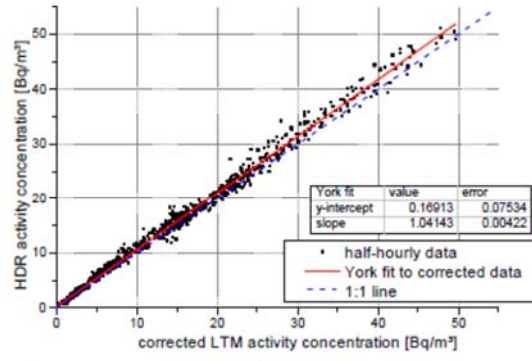
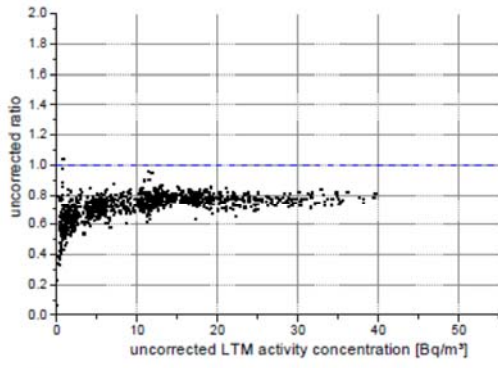
52m LTM correction and evaluation



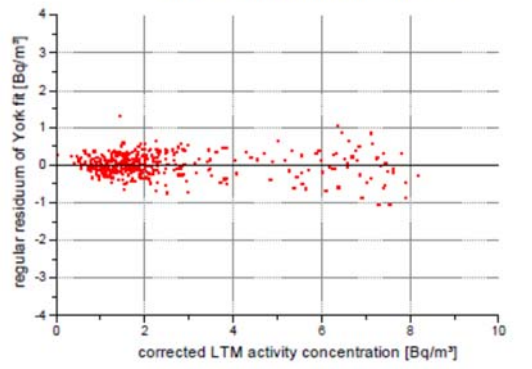
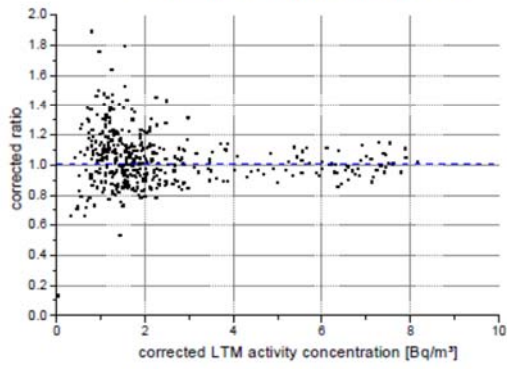
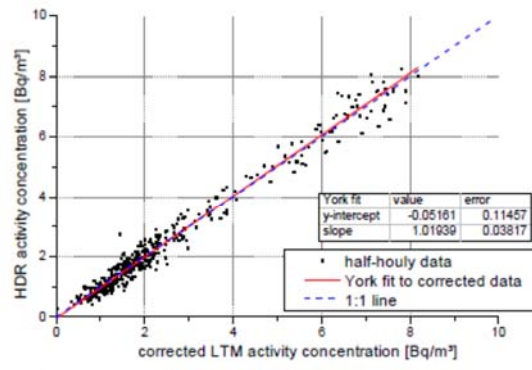
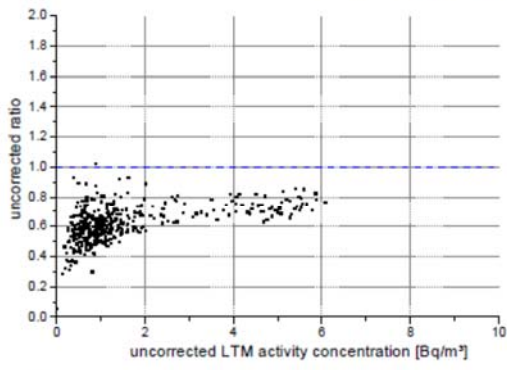
82m LTM correction and evaluation



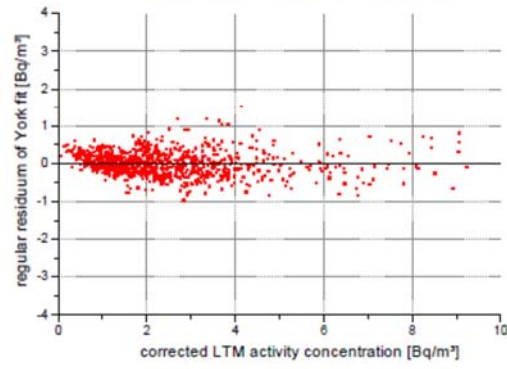
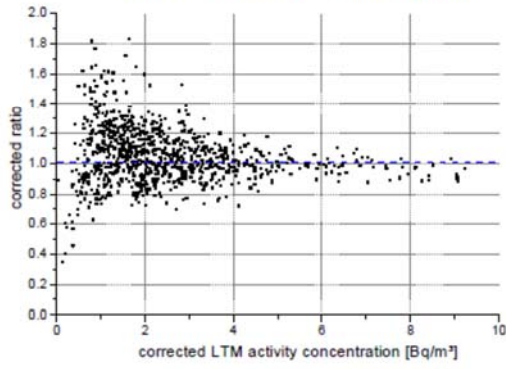
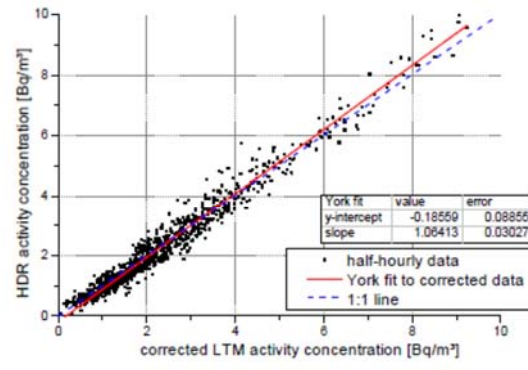
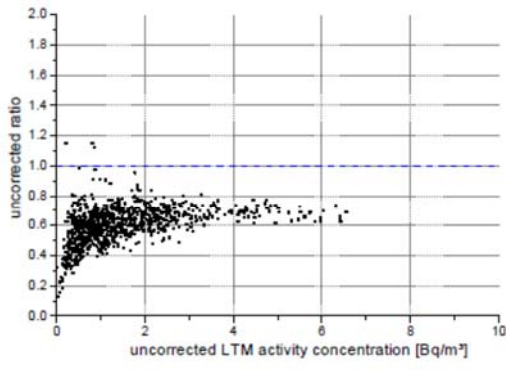
100m LTM correction and evaluation



130m LTM correction and evaluation



152m LTM correction and evaluation



200m LTM correction and evaluation

