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*Supplement of*

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

**Ingeborg Levin et al.**

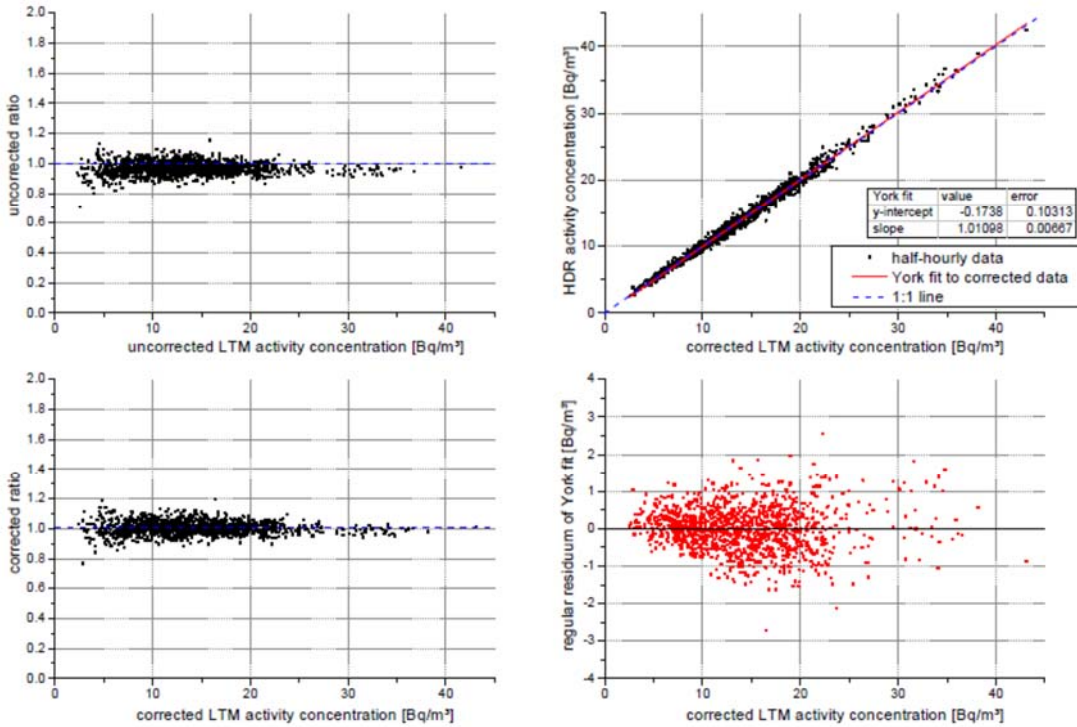
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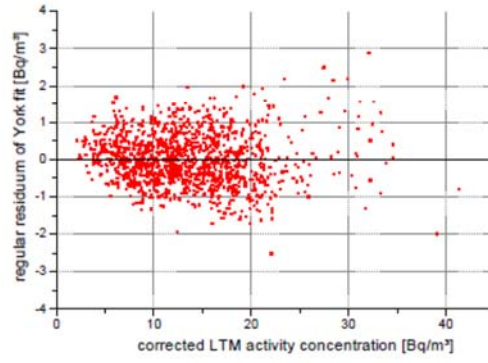
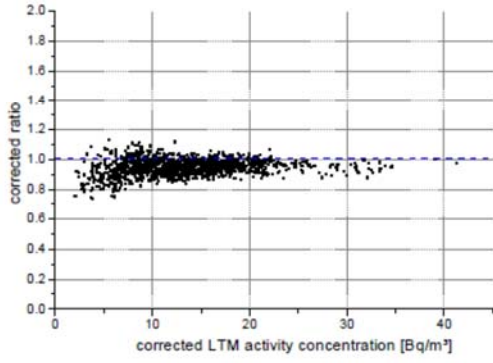
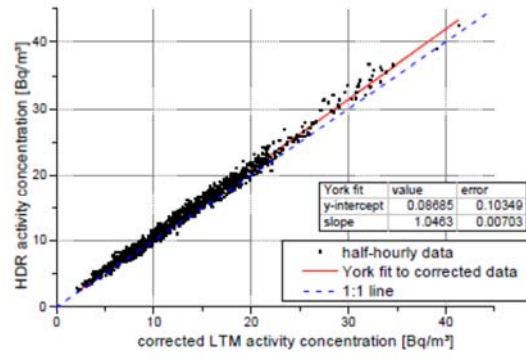
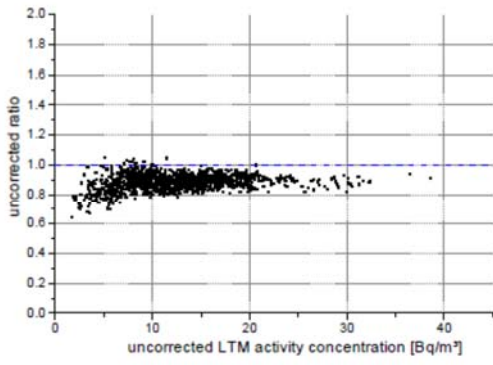
Supplementary Figures S1-S9:

5 Evaluation of  $^{214}\text{Po}$  activity concentrations using the empirical correction functions Eqs. 1 and 2 for loss of  $^{222}\text{Rn}$  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.

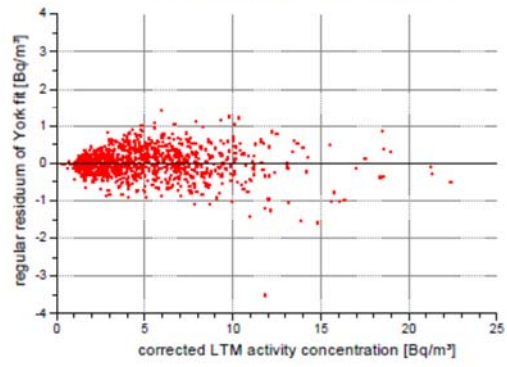
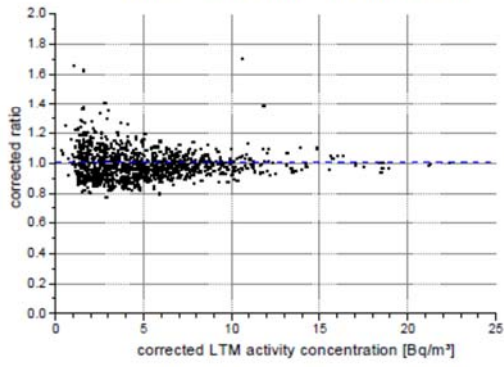
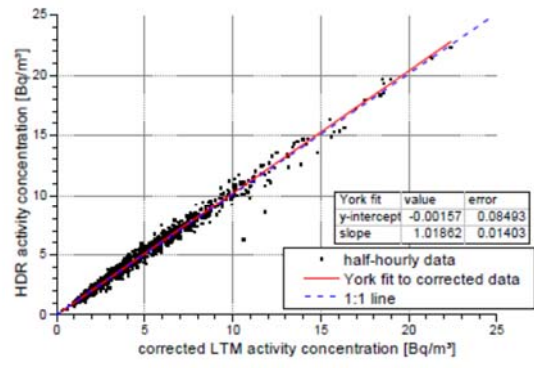
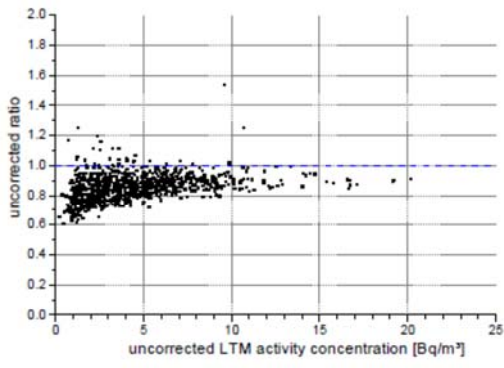
16m LTM correction and evaluation



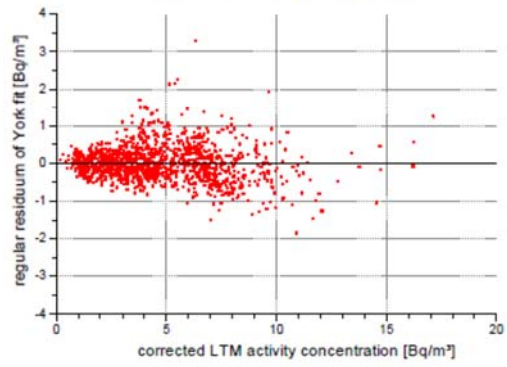
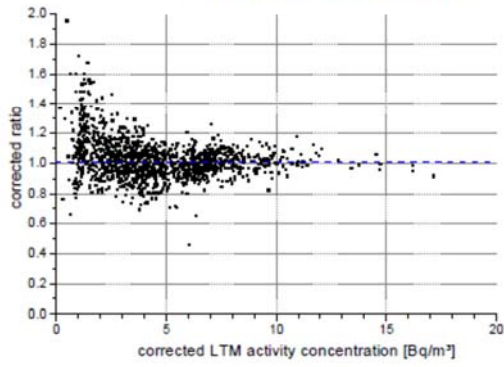
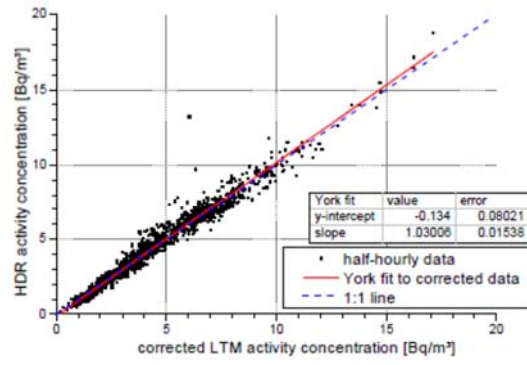
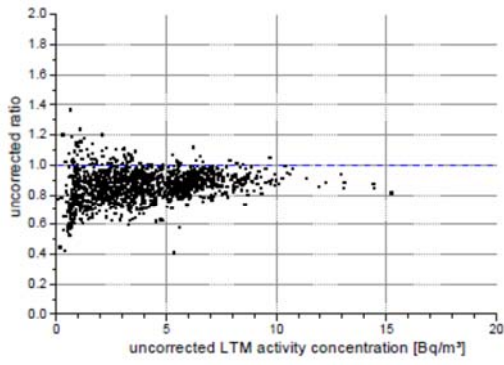
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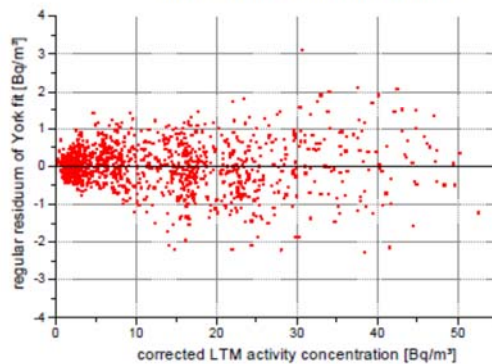
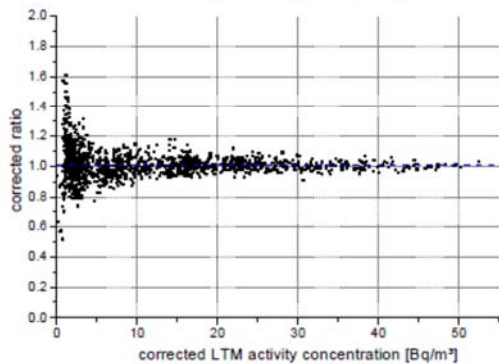
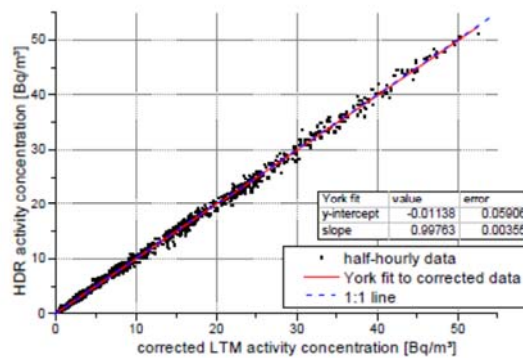
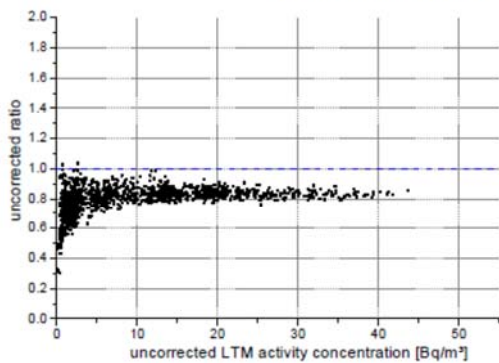
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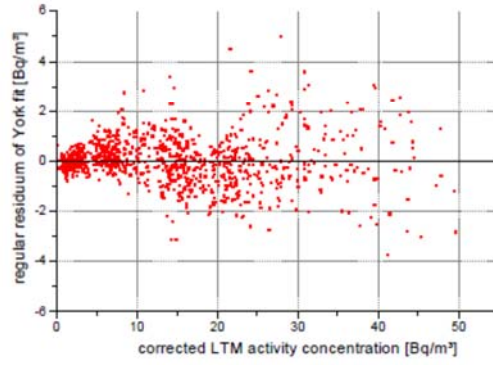
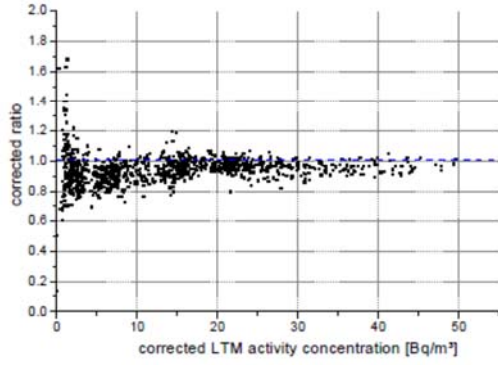
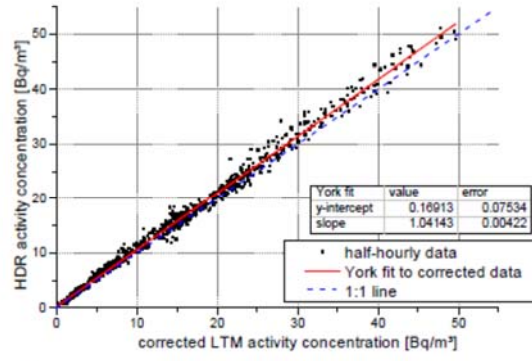
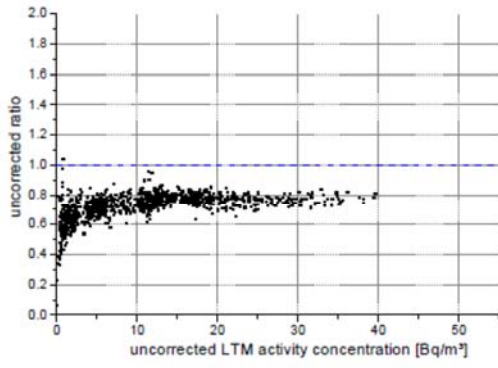
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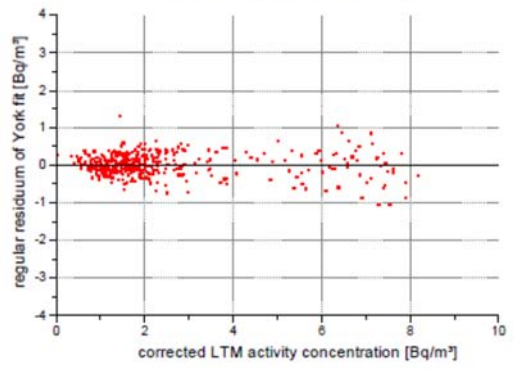
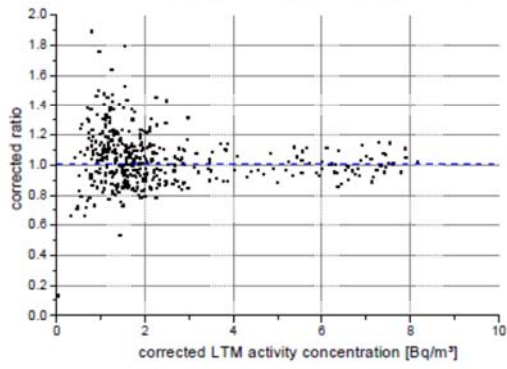
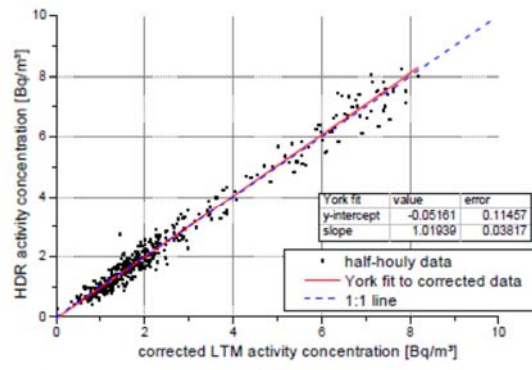
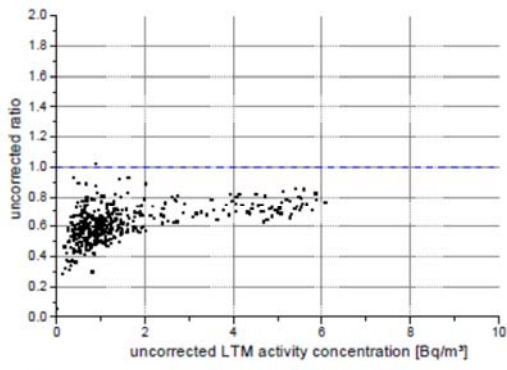
## 82m LTM correction and evaluation



# 100m LTM correction and evaluation

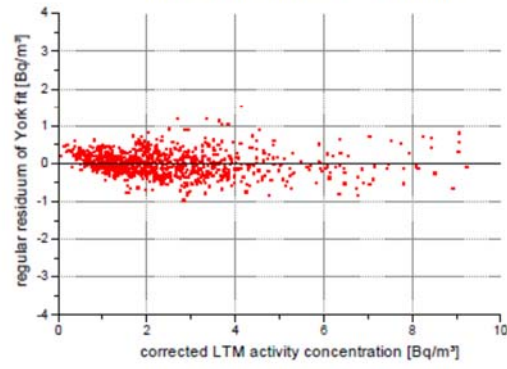
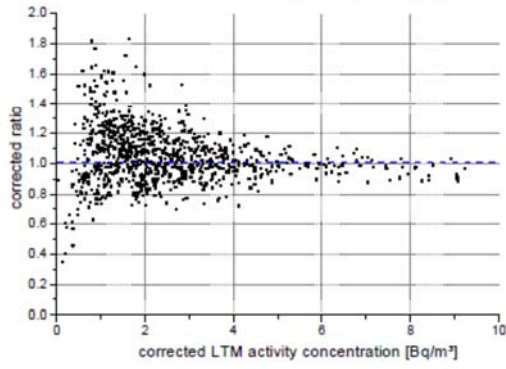
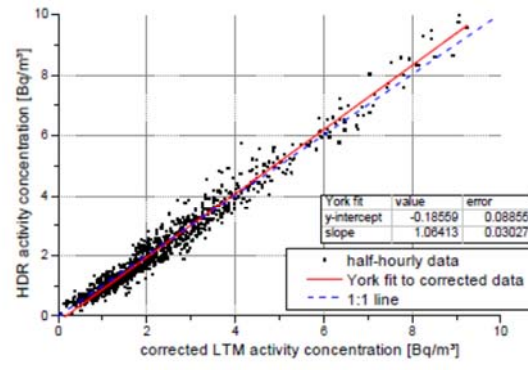
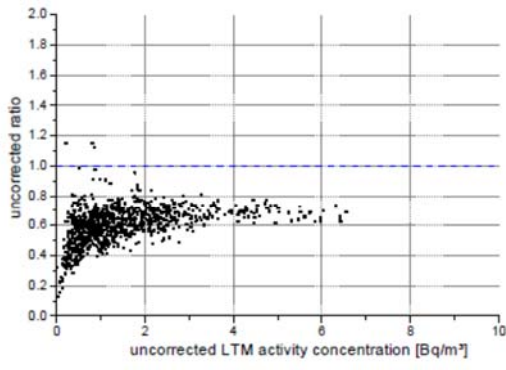


# 130m LTM correction and evaluation





# 152m LTM correction and evaluation



## 200m LTM correction and evaluation

