



Energy research Centre of the Netherlands

Cabauw Station Report

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Cabauw Station Report

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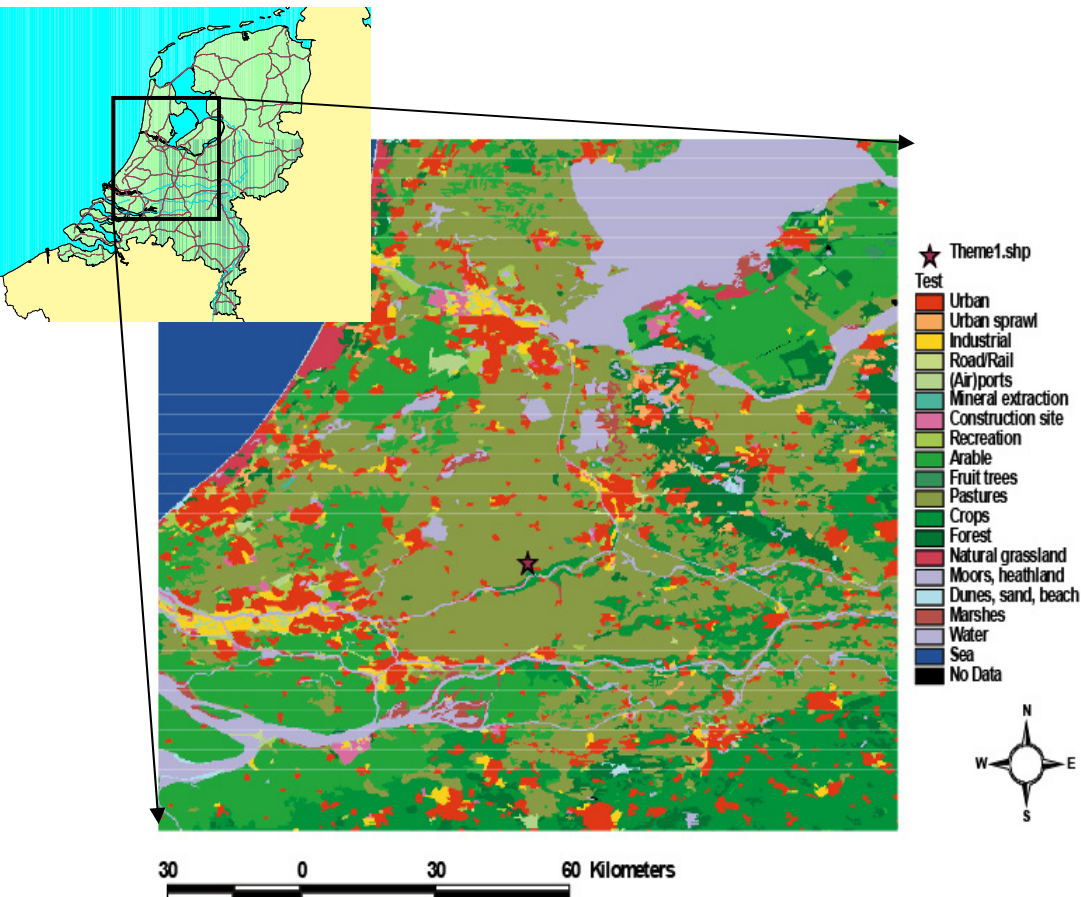


Fig 1



Constructed 1972: KNMI

CESAR super-site

Operation 1992-now

Tower at -2m ASL, 213 AGL

Inlets at 20, 60, 120, 200 m AGL (1,2,5,10 m AGL small mast)

GC: CH_4 , N_2O , CO , SF_6

NDIR: CO_2

Gradient of ^{222}Rn (20, 200 m ASL; 2005)

Eddy flux CO_2 (KNMI, WUR) at 3 lev



Rescaled data to NOAA04 and NOAA07 scales

Applied updated Jena WS assignments

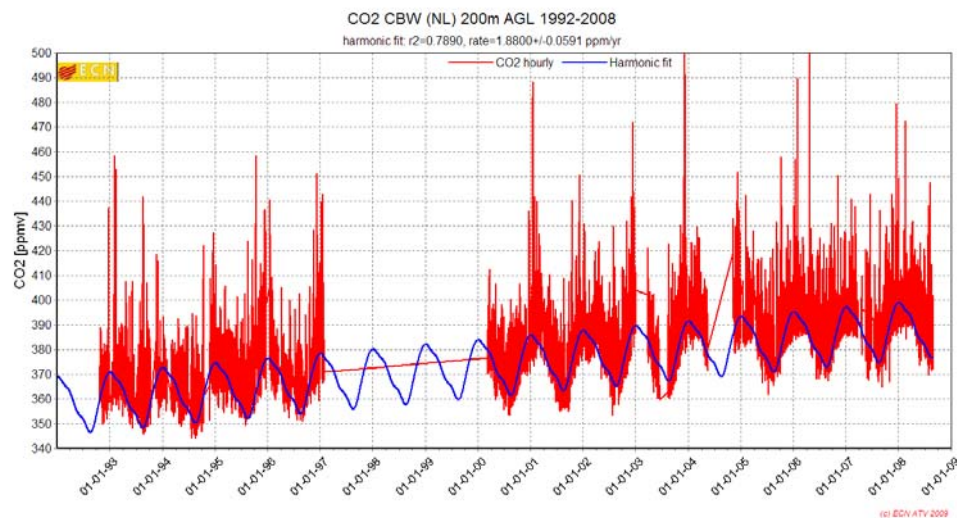
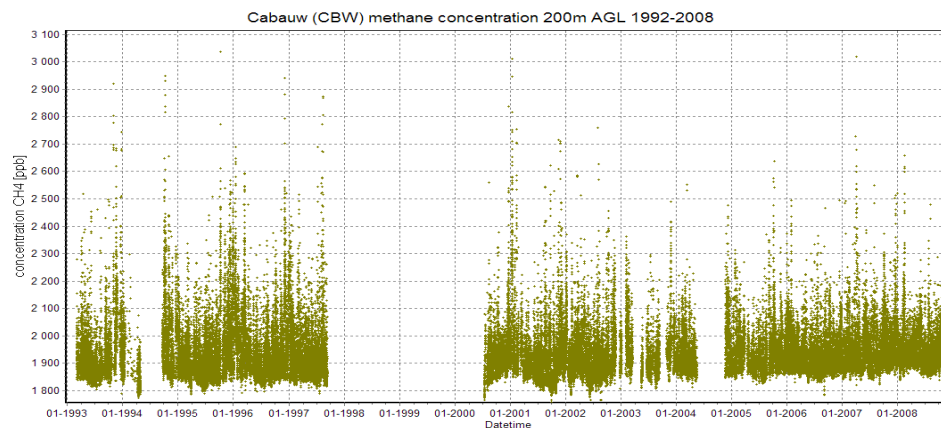
Reanalyzed all data

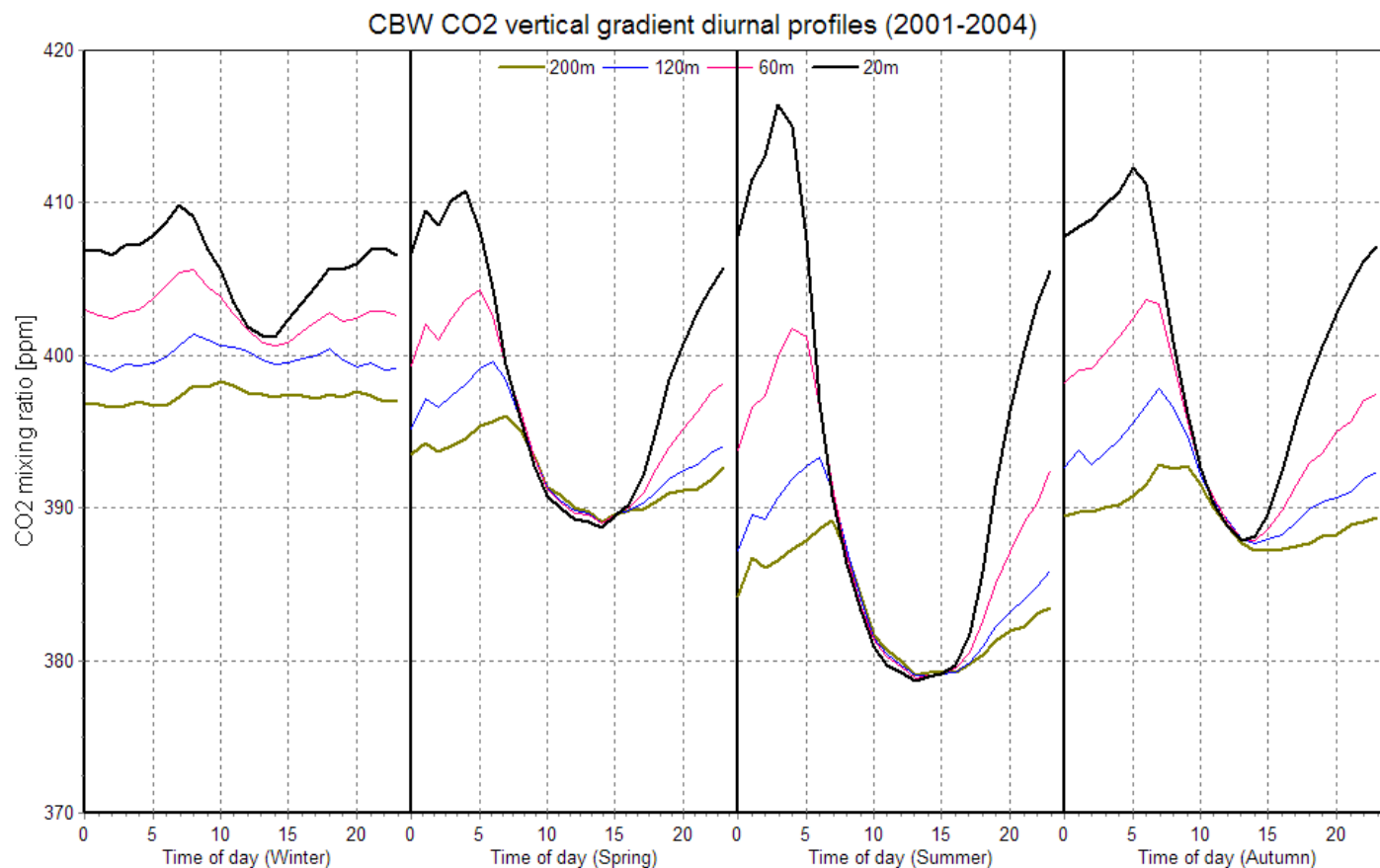
Reintegrated 2004-2008

Improved drift correction 2004-2008

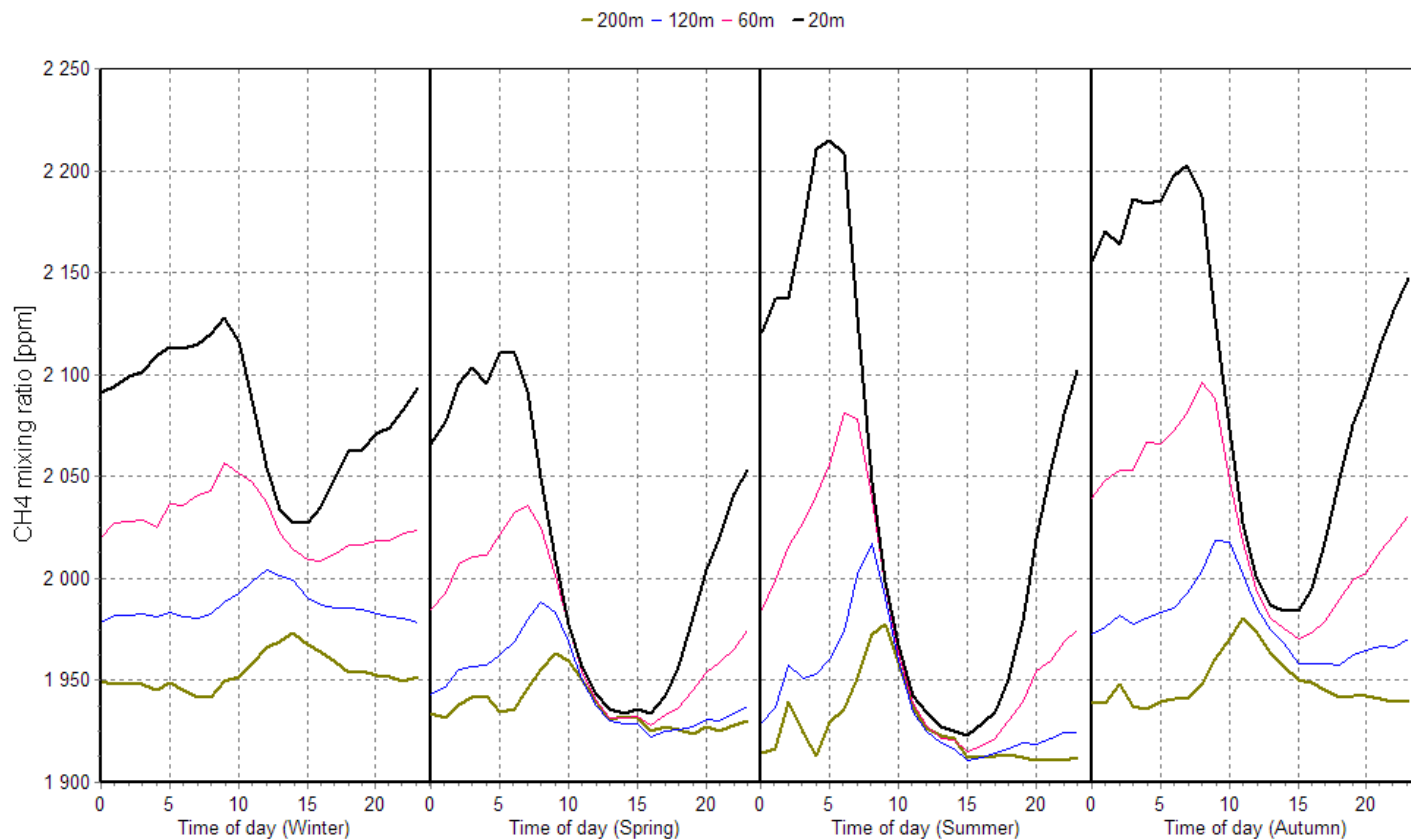
Publication in preparation (AMTD)

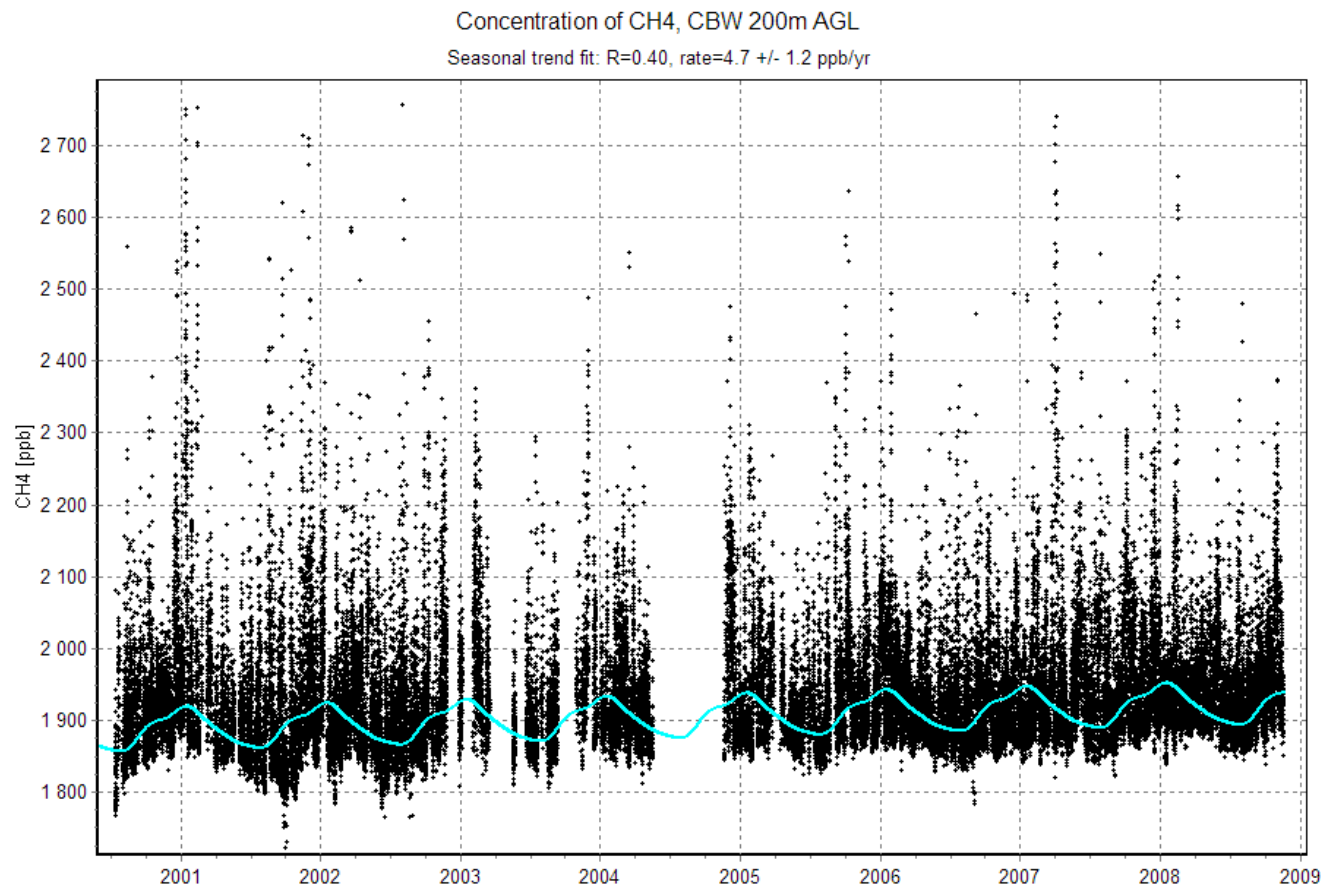
Submission to databases





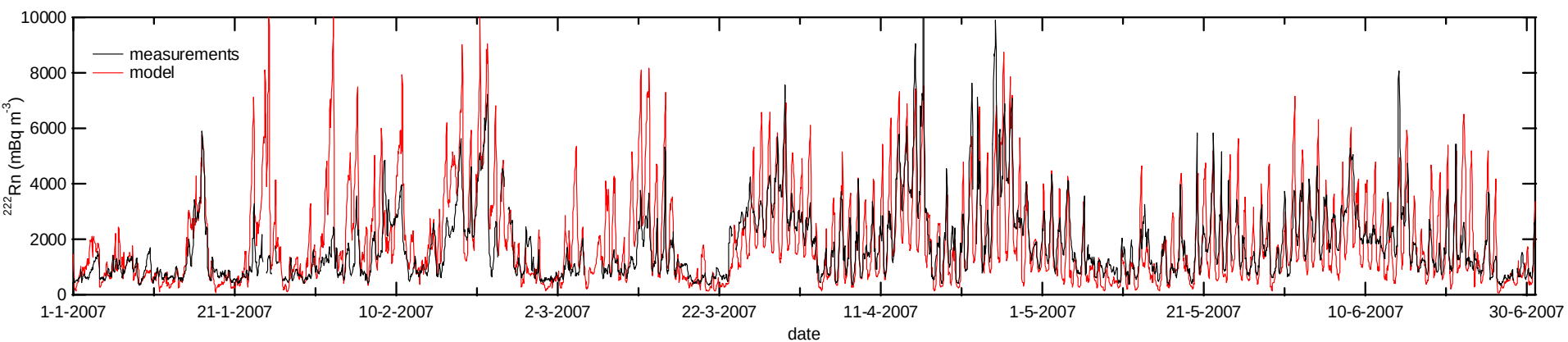
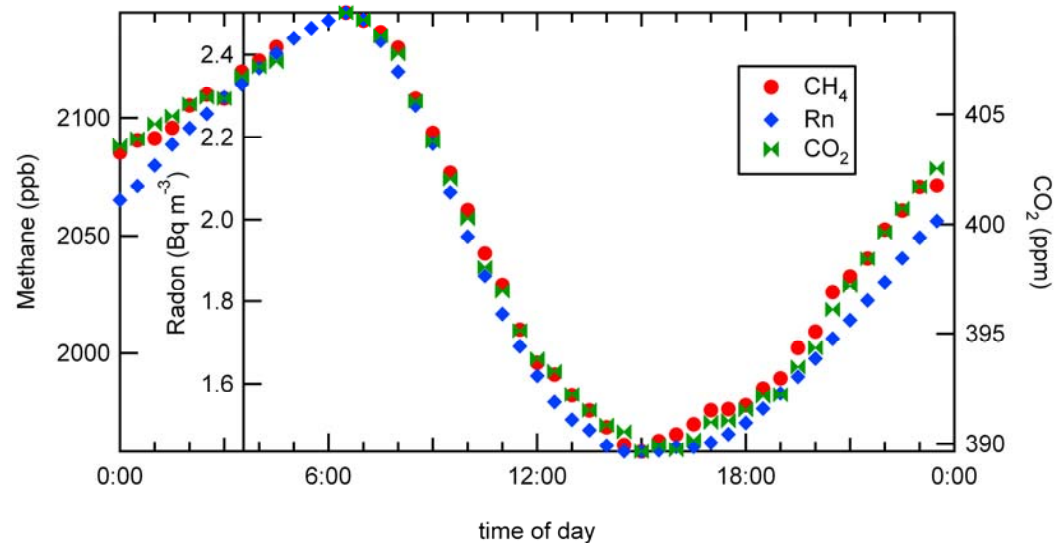
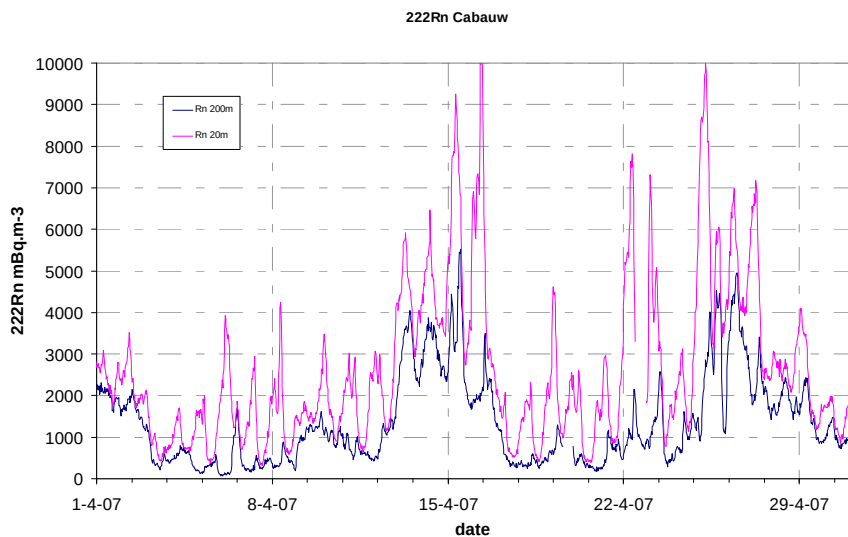
CBW CH_4 vertical gradient diurnal profile

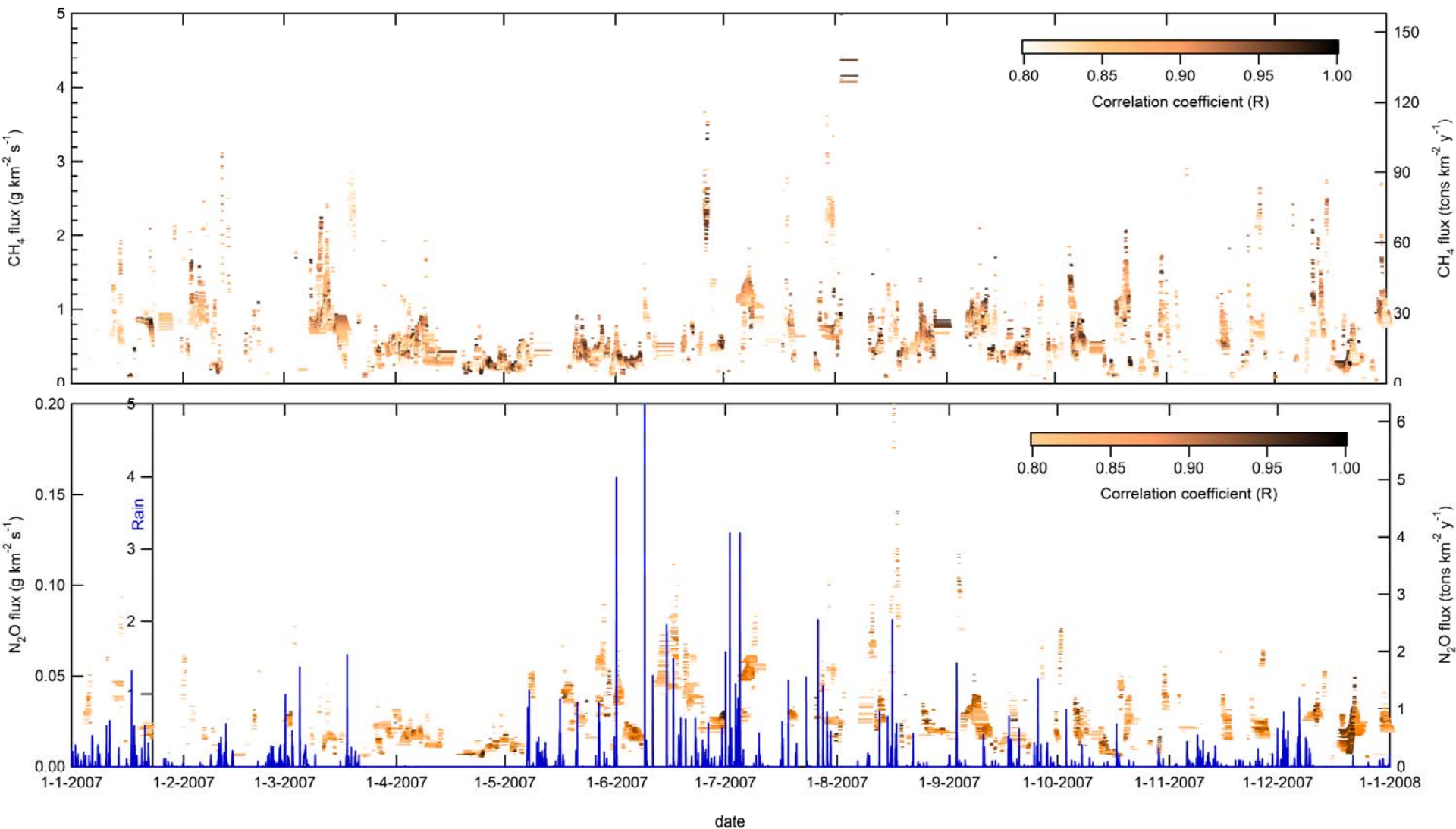


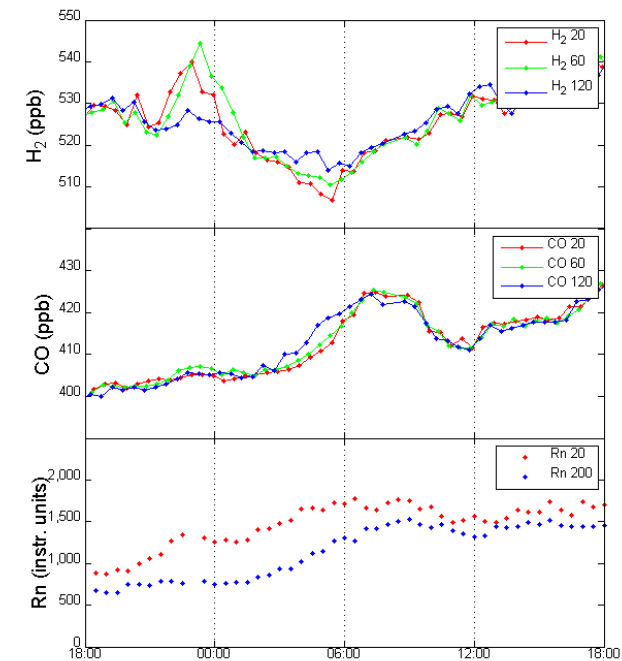
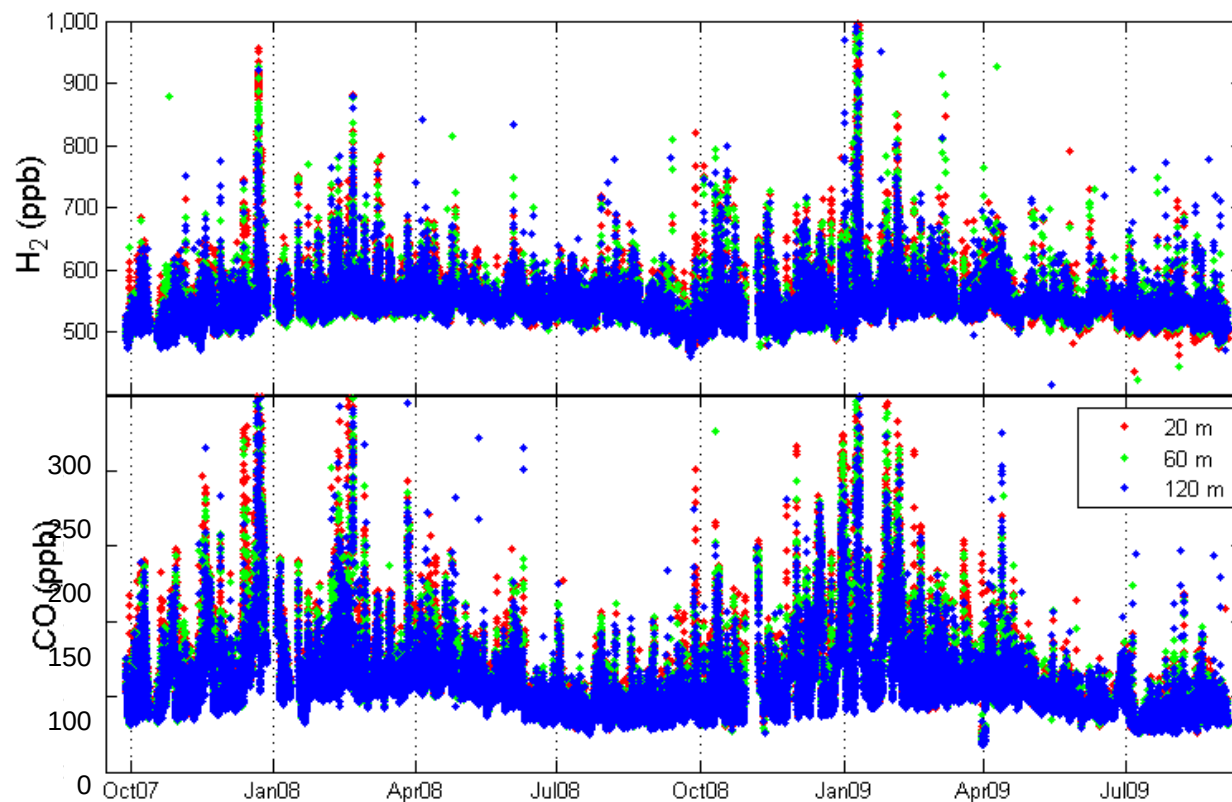


- Replaced analytical columns
- Replaced Valco multiposition valves and introduced new shunt valves
- Replaced/cleaned tubing, small parts etc.
- Tuned methods

Gas	Method	Operational	Precision 2004-2009	Precision 2009
CO ₂	LICOR 7000	Nov-04	0.05 ppm	0.05 ppm
²²² Rn	ANSTO	Nov-05 200m Feb-06 20m	50 mBq.m ⁻³	50 mBq/m ³
CH ₄	GC-FID	Nov-04	2-5 ppb	0.7 ppb
CO	GC-FID		3 ppb	2 ppb
N ₂ O	GC-ECD		0.4-1 ppb	0.23 ppb
SF ₆	GC-ECD		0.2-0.5 ppt	0.12 ppt







Poster P42: Popa *et al.*

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