



Cabauw Station Report

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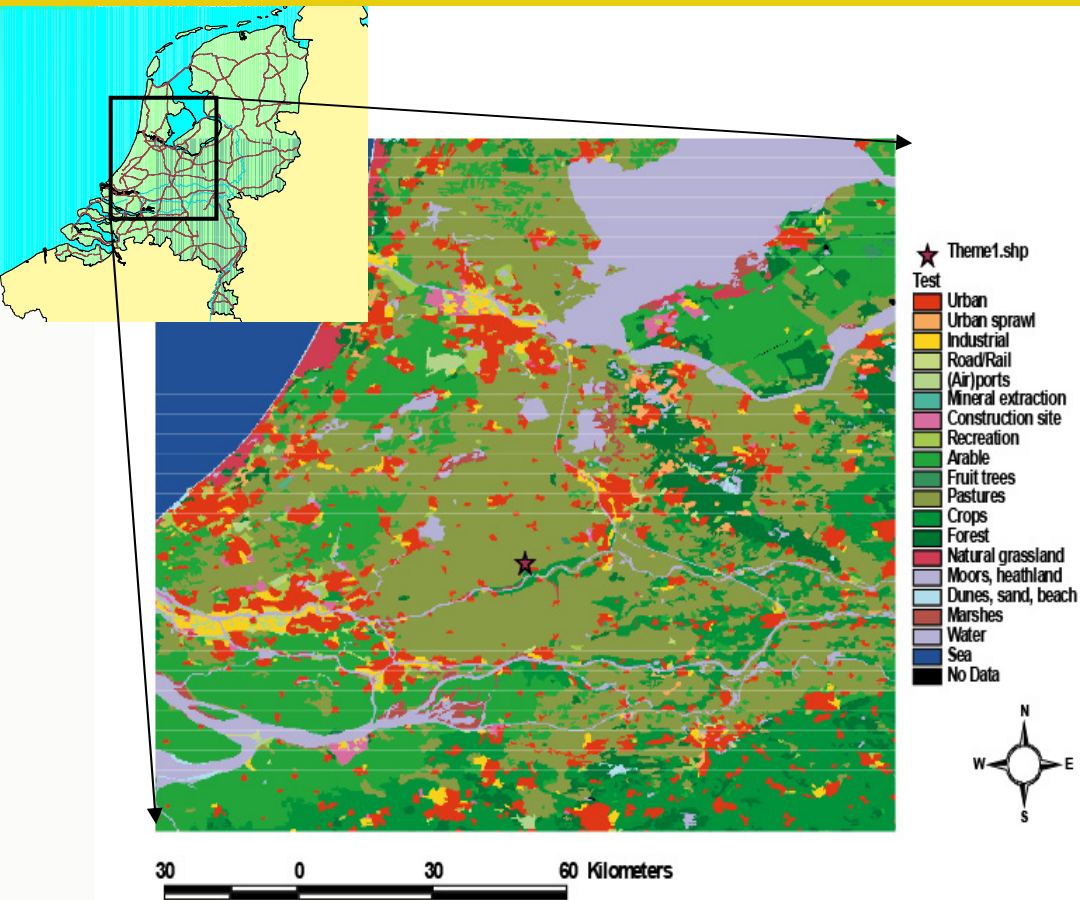
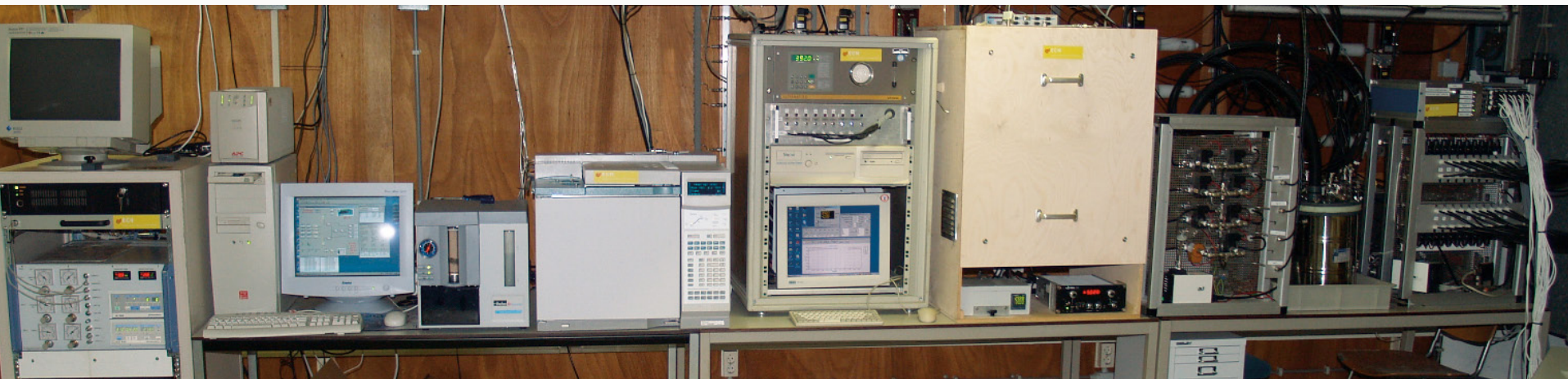


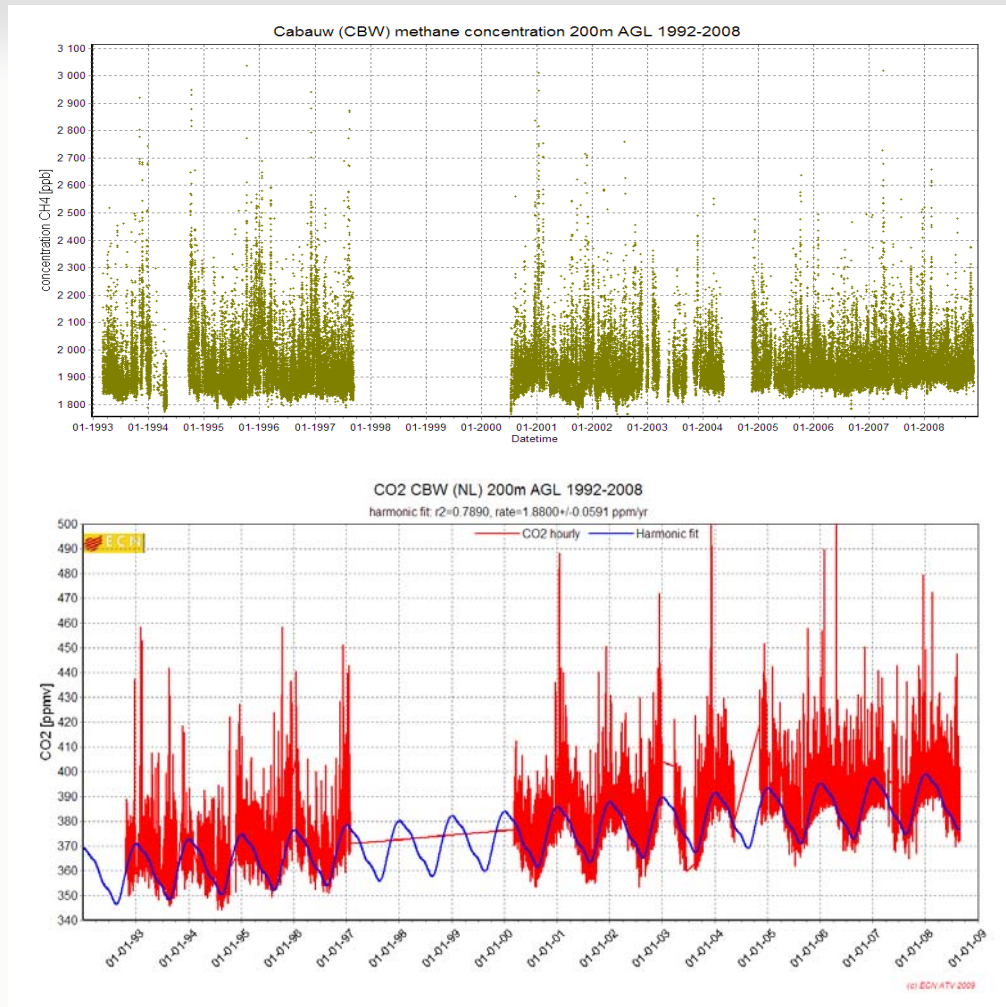
Fig 1

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: CH₄, N₂O, CO, SF₆
NDIR: CO₂
Gradient of ²²²Rn (20, 200 m ASL; 2005)
Eddy flux CO₂ (KNMI, WUR) at 3 levels



- Rescaled data to NOAA04 and NOAA07 scales
- Applied updated Jena WS assignments
- Reanalyzed all data
- Reintegrated 2004-2008
- Improved drift correction 2004-2008

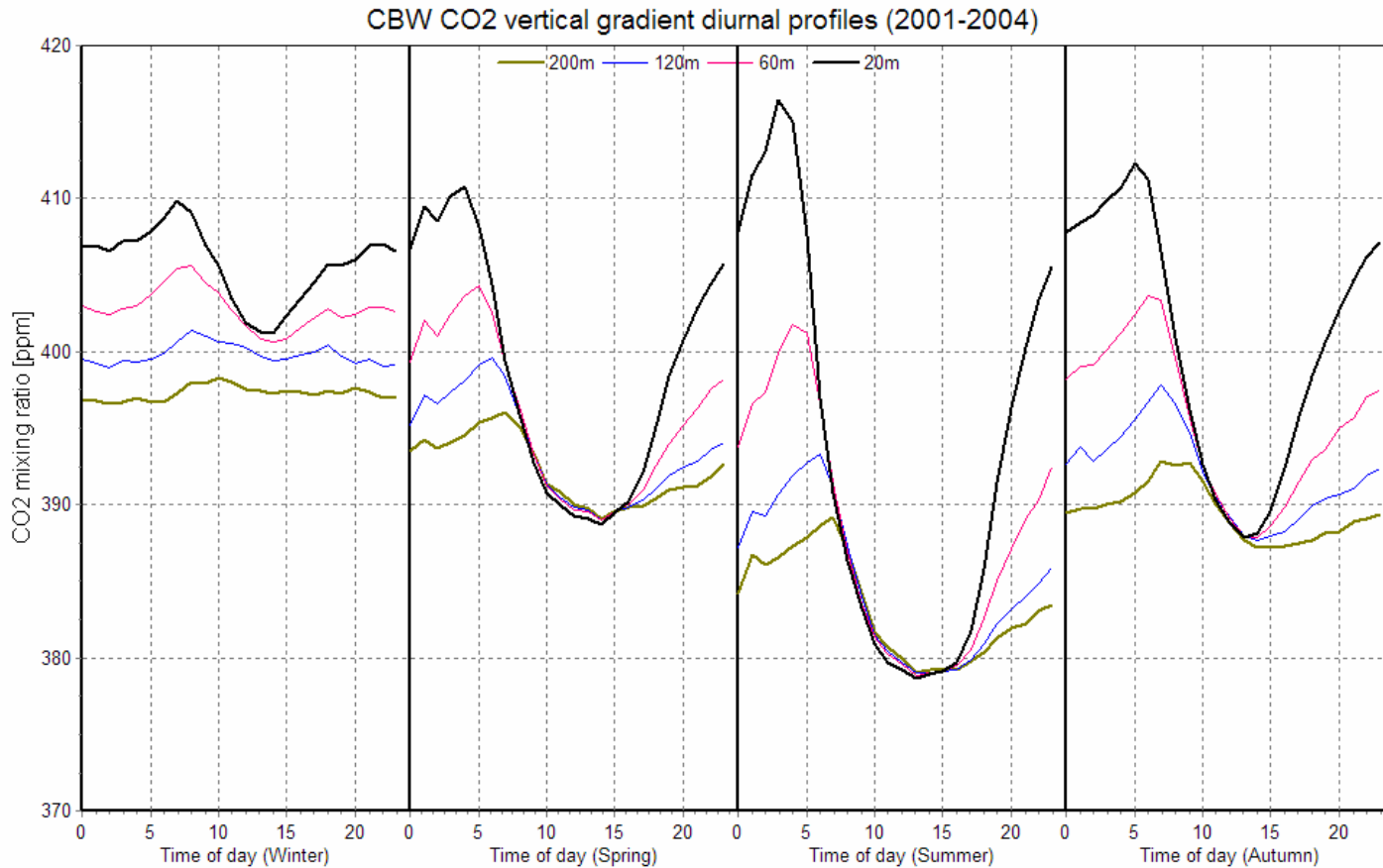
Publication in preparation (AMTD)
 Submission to databases

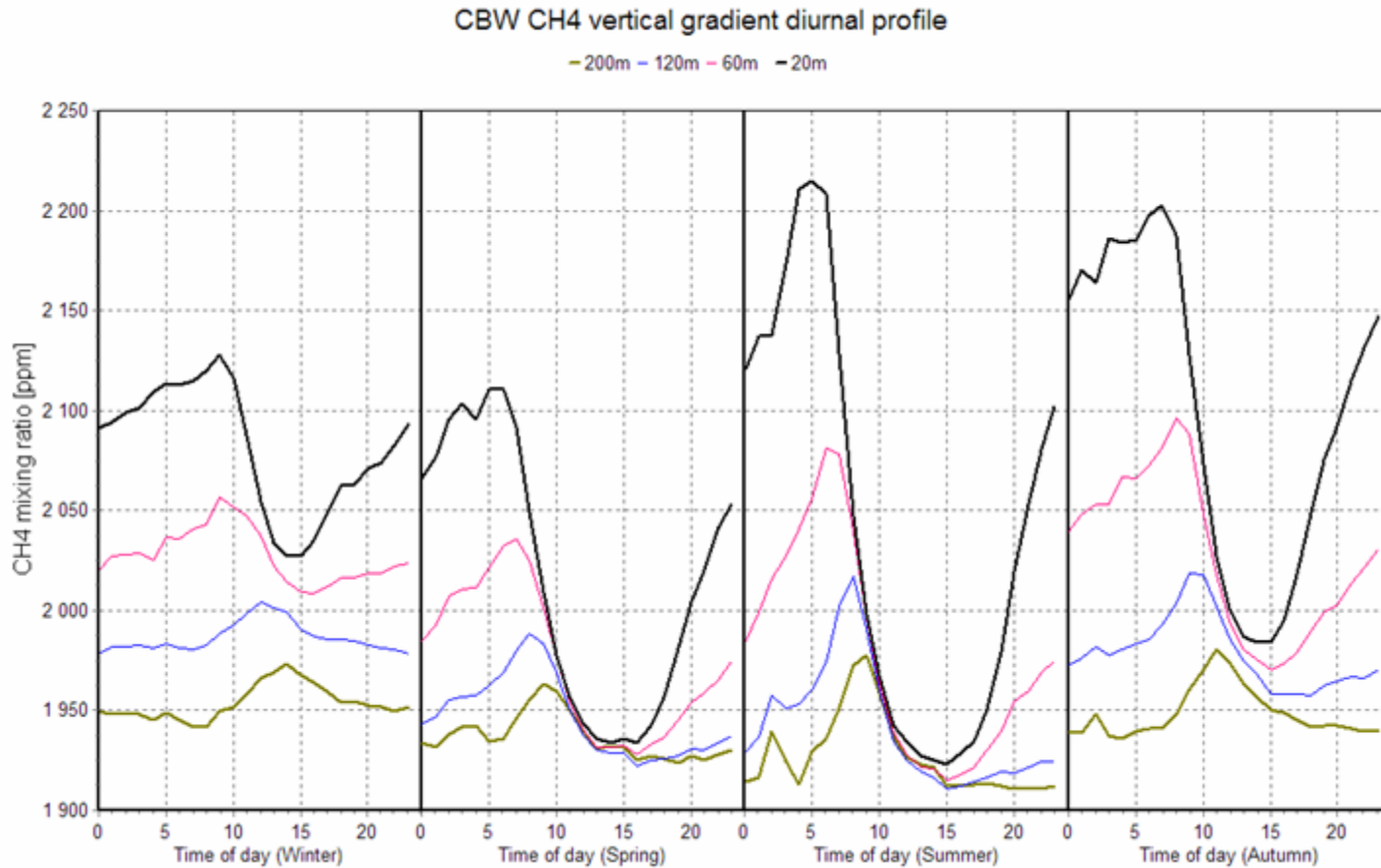


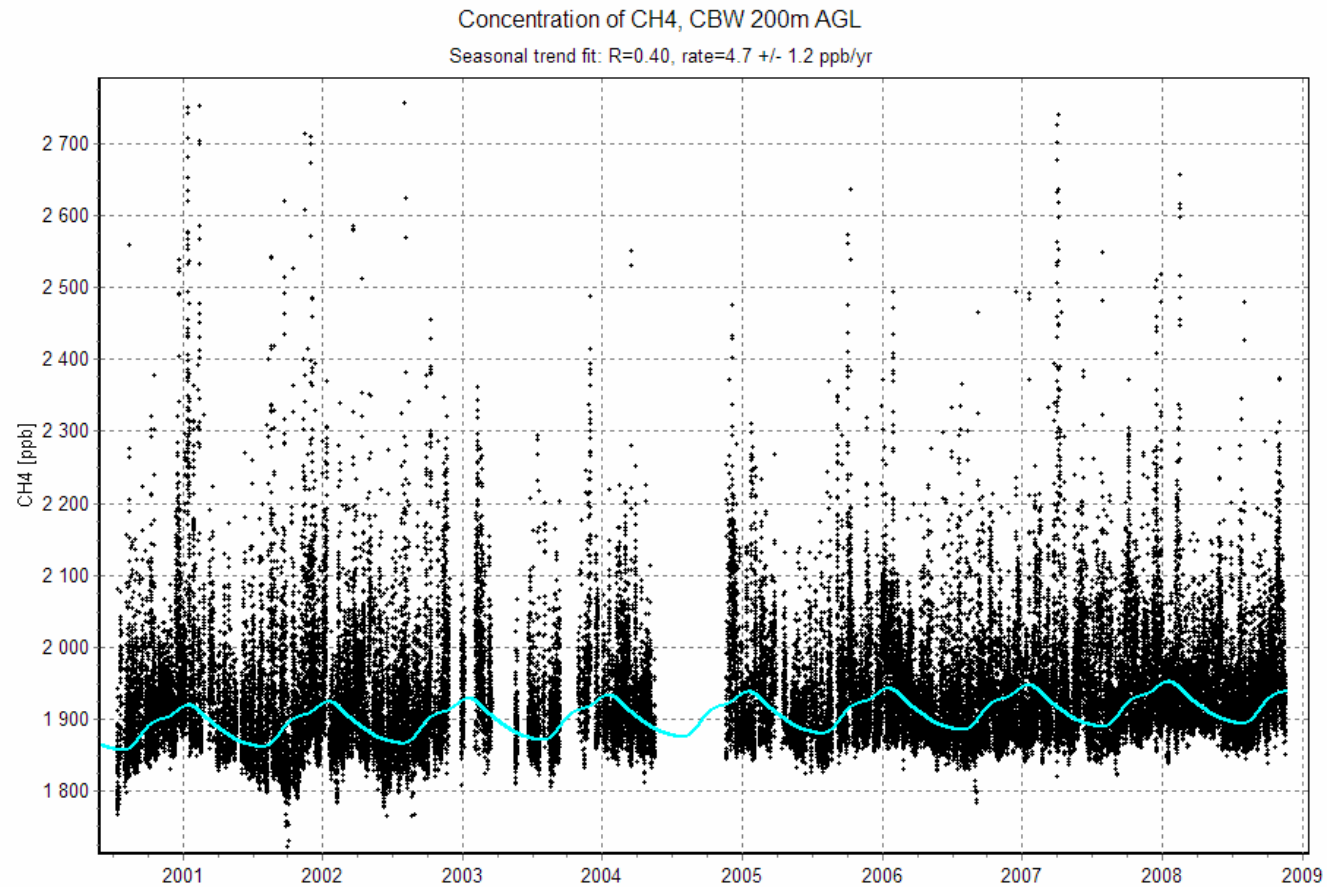
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Example: seasonal diurnal trend in CO₂ vertical gradient



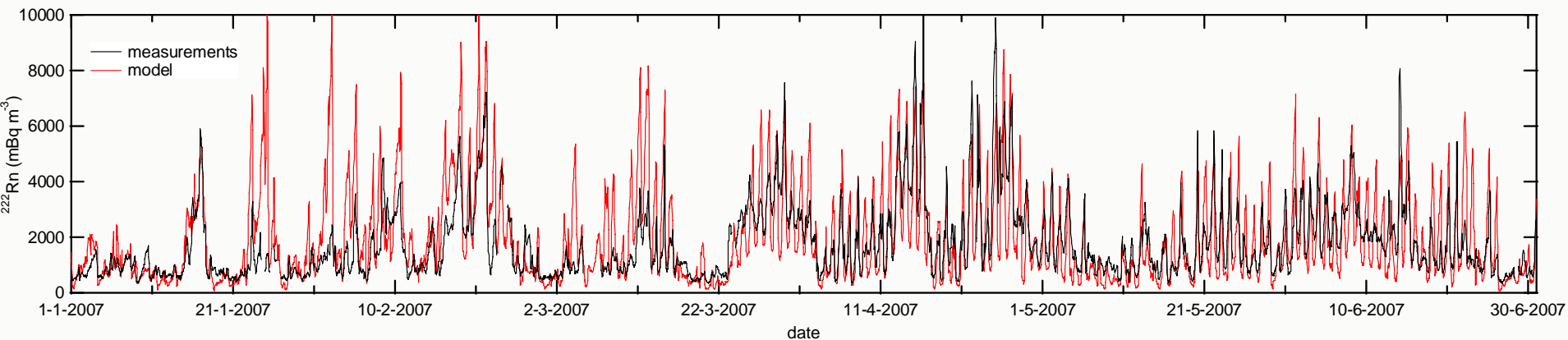
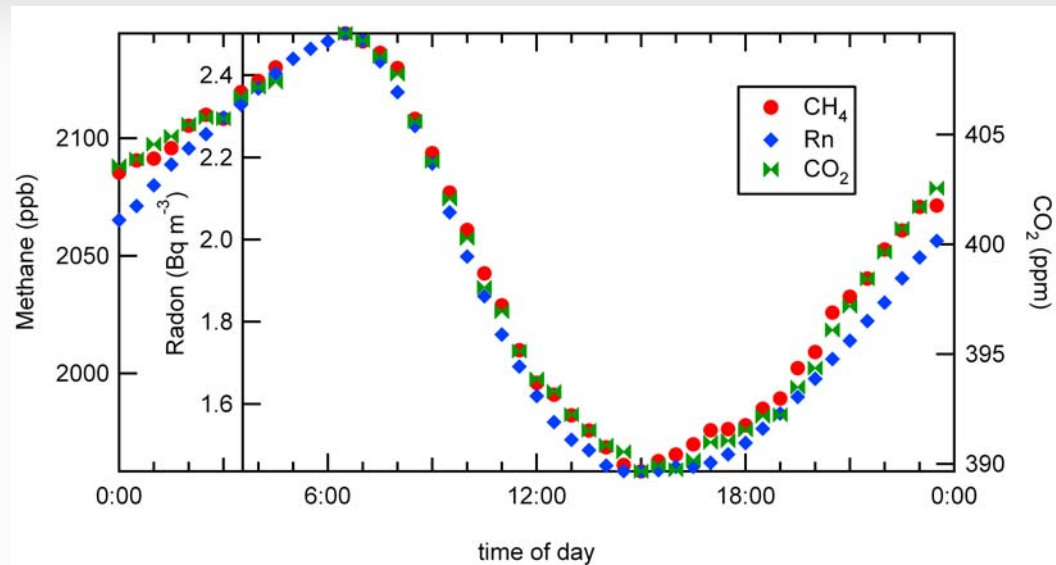
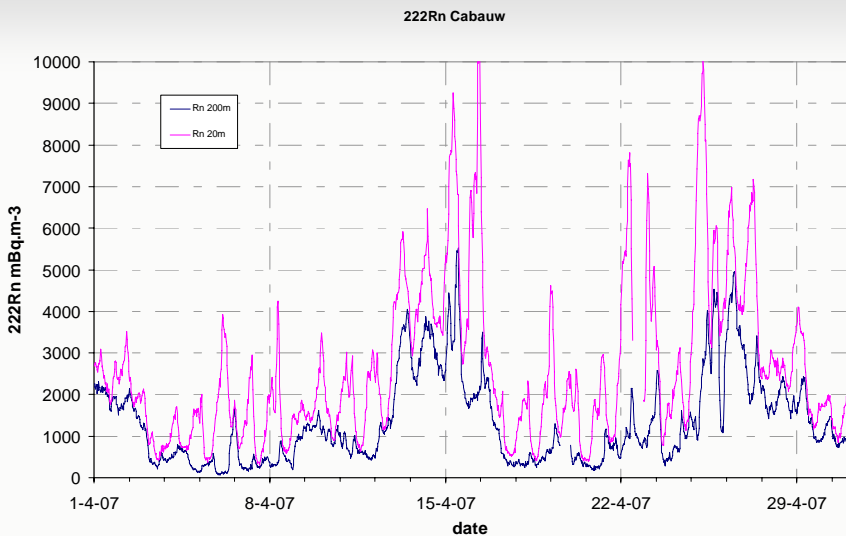




- Replaced analytical columns
- Replaced Valco multiposition valves and introduced new shunt valves
- Replaced/cleaned tubing, small parts etc.
- Tuned methods

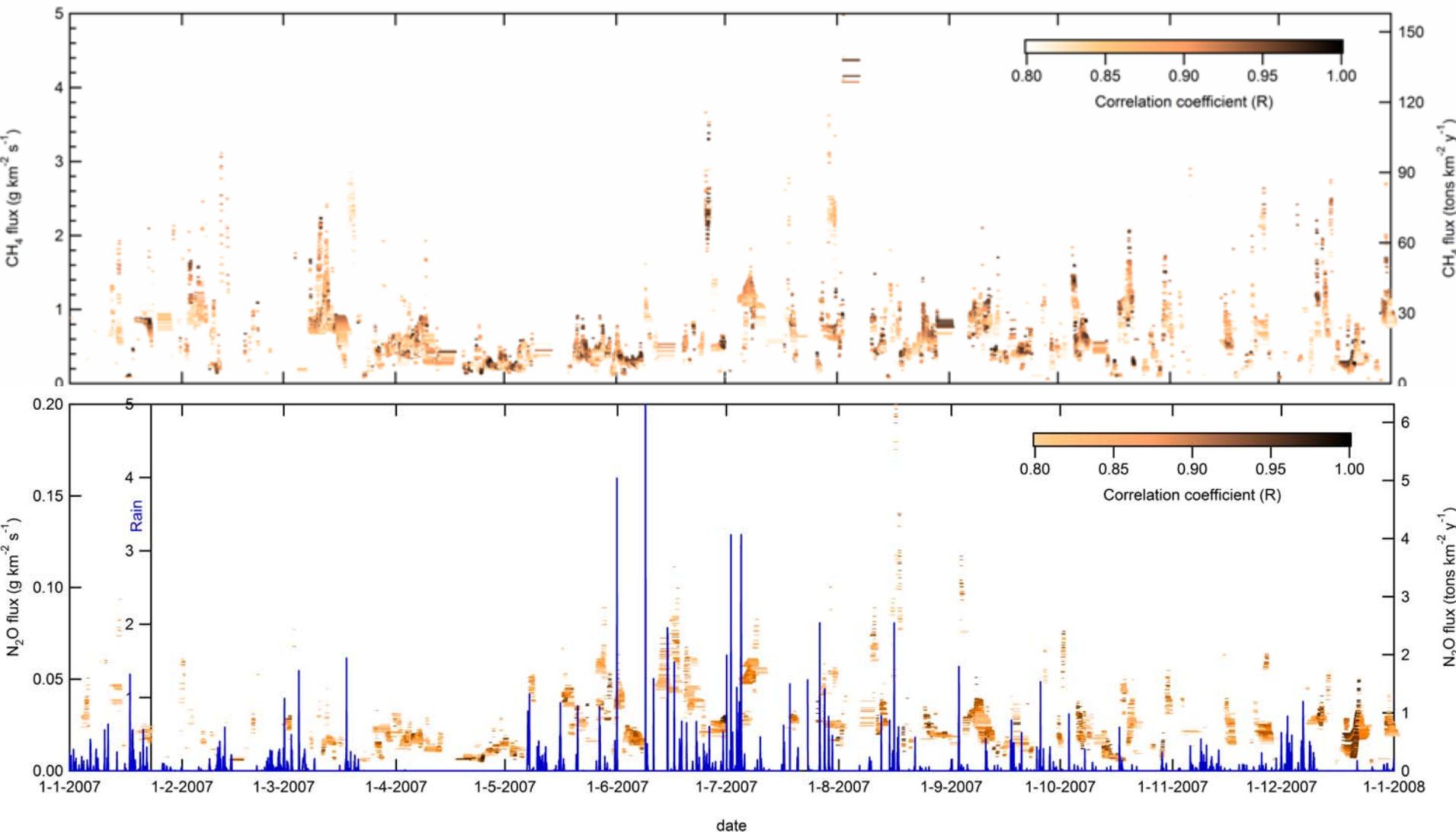
Gas	Method	Operational	Precision 2004-2009	Precision 2009
CO ₂	LICOR 7000	Nov-04	0.05 ppm	0.05 ppm
²²² Rn	ANSTO	Nov-05 200m Feb-06 20m	50 mBq.m ⁻³	50 mBq/m ³
CH ₄	GC-FID	Nov-04	2-5 ppb	0.7 ppb
CO	GC-FID		3 ppb	2 ppb
N ₂ O	GC-ECD		0.4-1 ppb	0.23 ppb
SF ₆	GC-ECD		0.2-0.5 ppt	0.12 ppt

CBW ^{222}Rn profile 20m+200m ASL



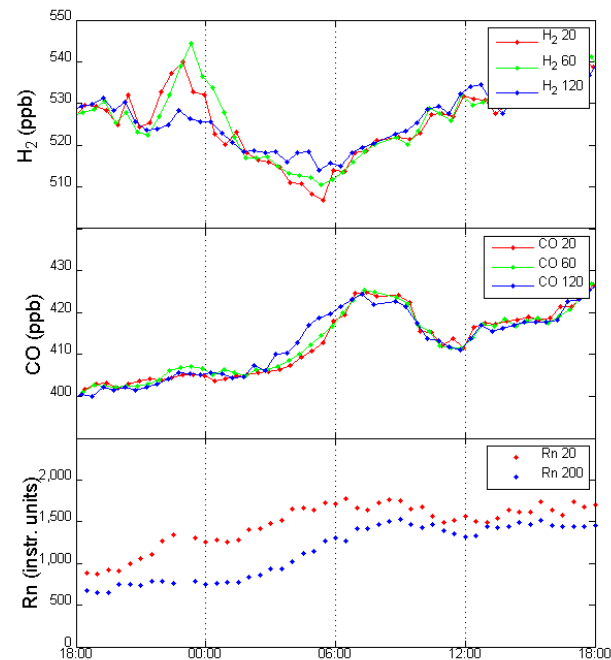
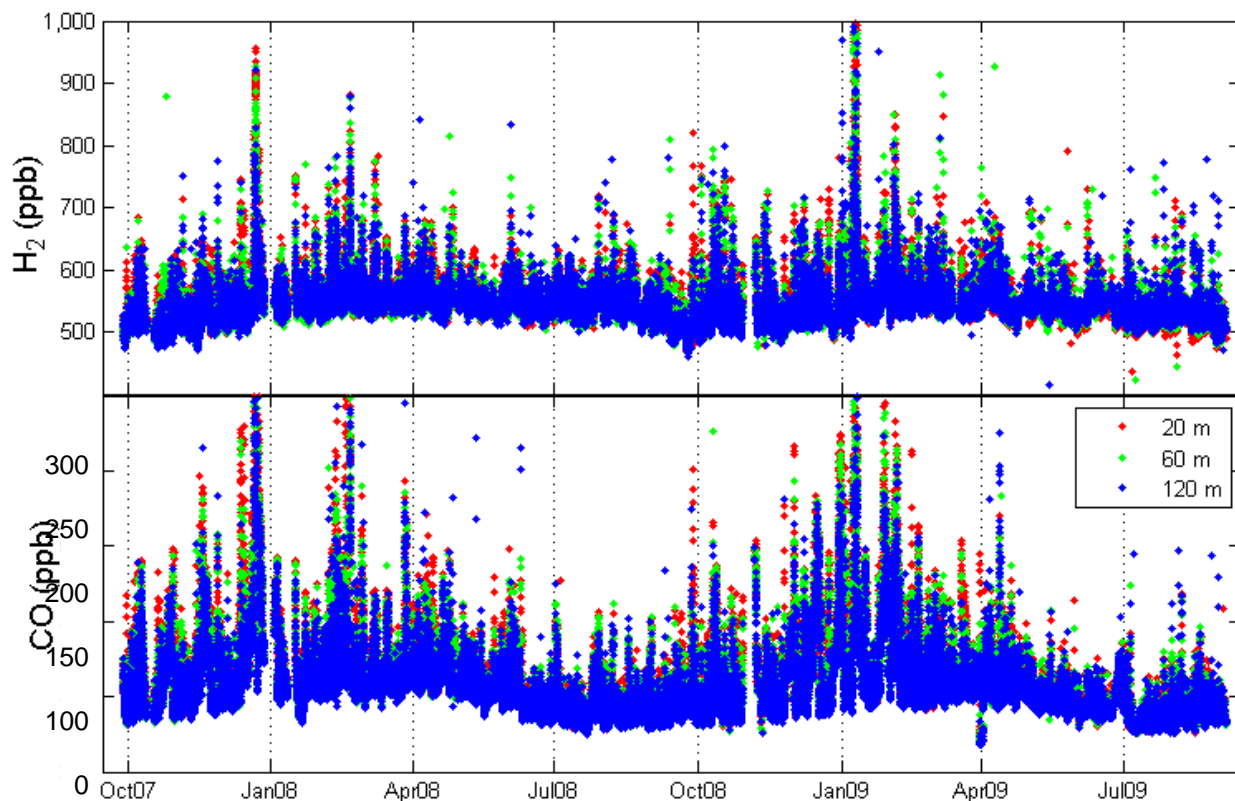
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Poster P42: Popa *et al.*

Thanks to: Support from EU FP5 (CHIOTTO, CarboEurope-IP), FP6 (IMECC, GEOMON),
National: BSIK ME-2, Ministries of VROM+EZ, NWO ACTS, ROB



The End

