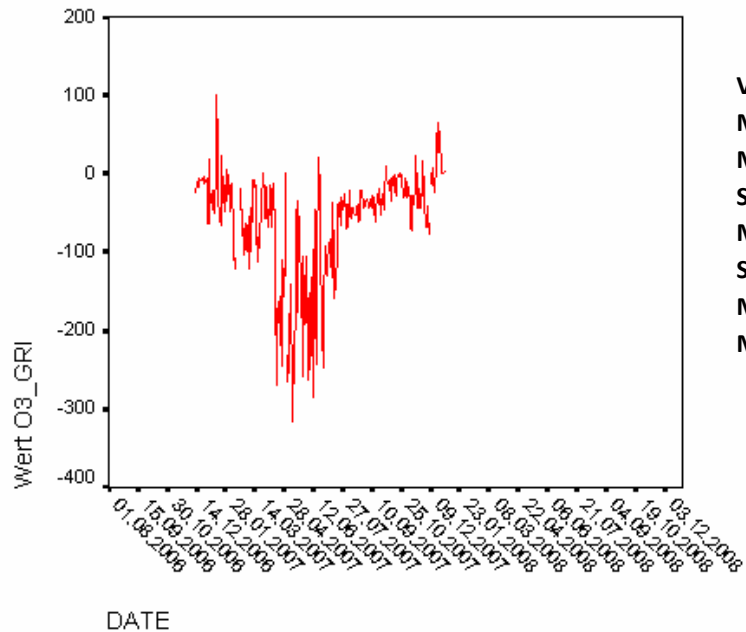


Soil NO, NO₂ and O₃ fluxes

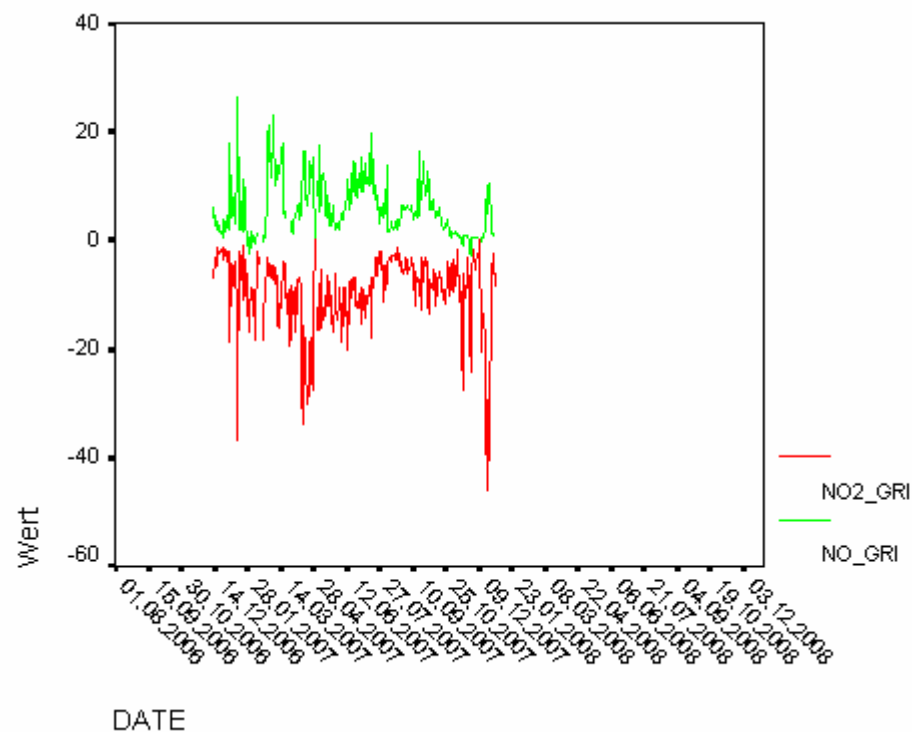
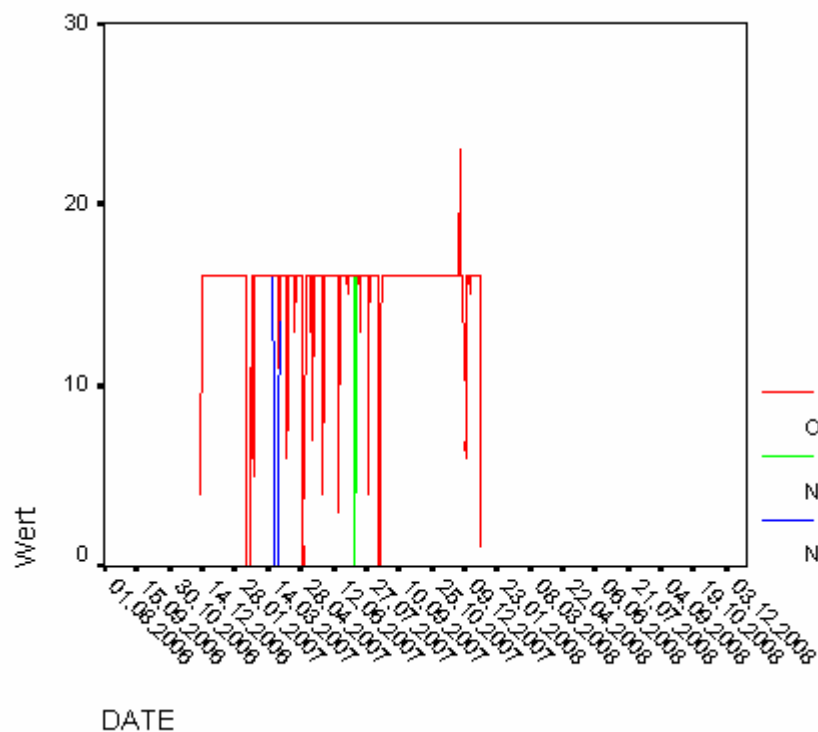
Nicolas Brüggemann
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Garmisch-Partenkirchen
Germany



Valid
Missing
Mean
SEM
Median
SD
Minimum
Maximum

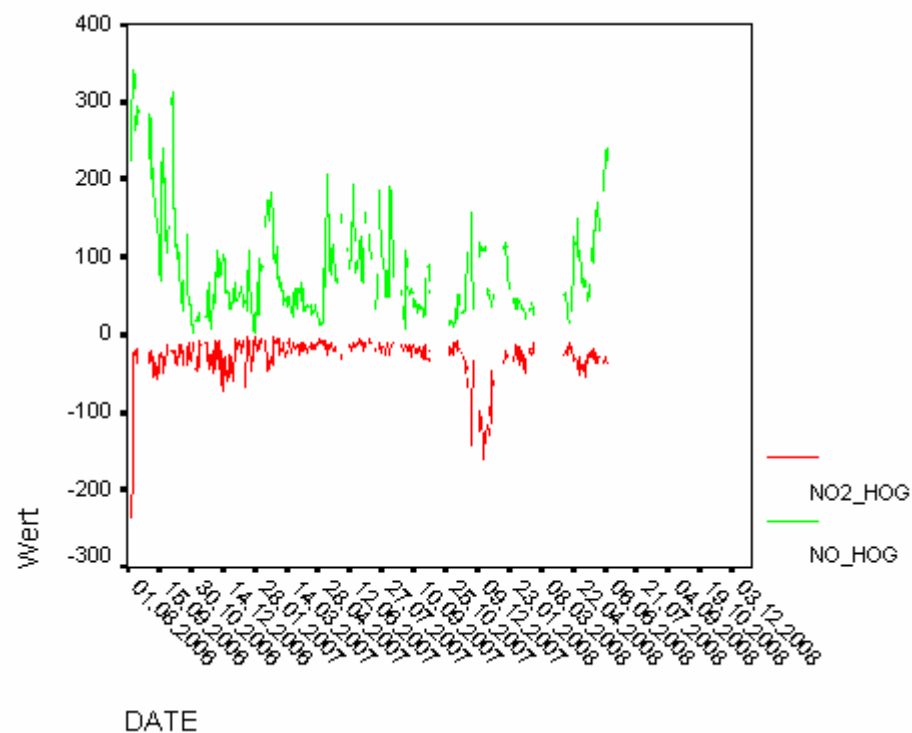
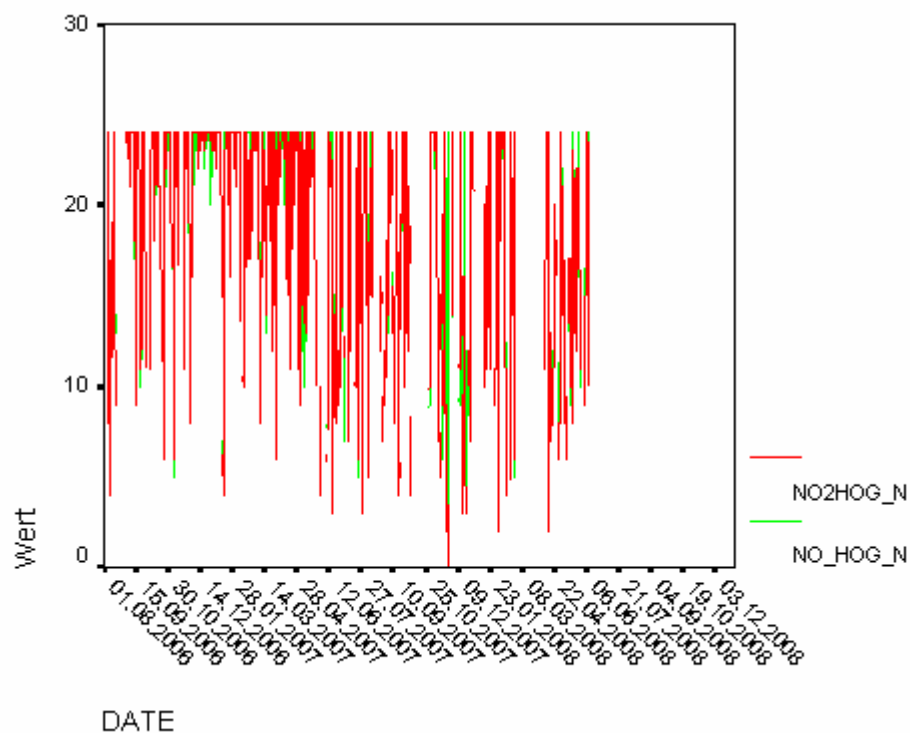
O3_GRI_N	NO2GRI_N	NO_GRI_N	O3_GRI	NO2_GRI	NO_GRI
383	383	383	373	372	366
501	501	501	511	512	518
15.01	14.93	14.65	-61.7641	-9.4740	5.9977
.17	.18	.20	3.6031	.3543	.2618
16.00	16.00	16.00	-40.8719	-8.1635	4.8750
3.41	3.52	4.01	69.5865	6.8341	5.0076
0	0	0	-316.48	-46.11	-2.65
23	23	23	101.10	.06	26.50

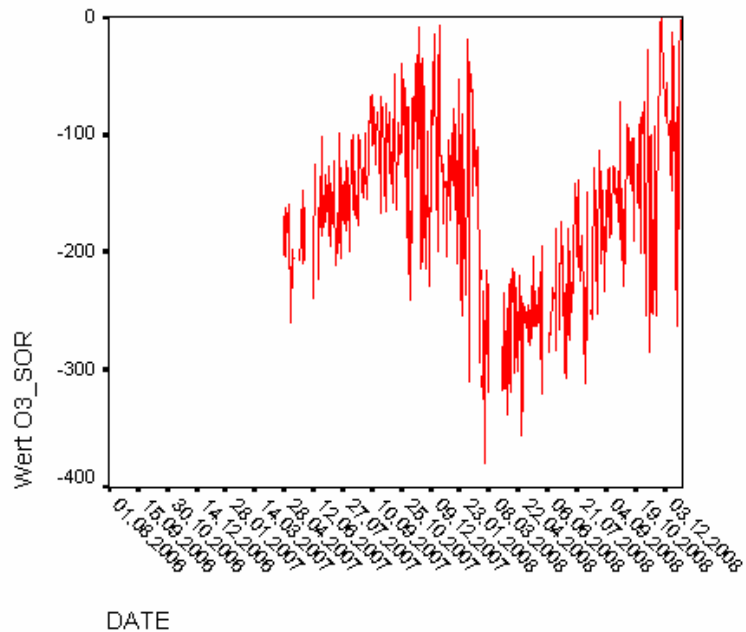
Grignon



Höglwald

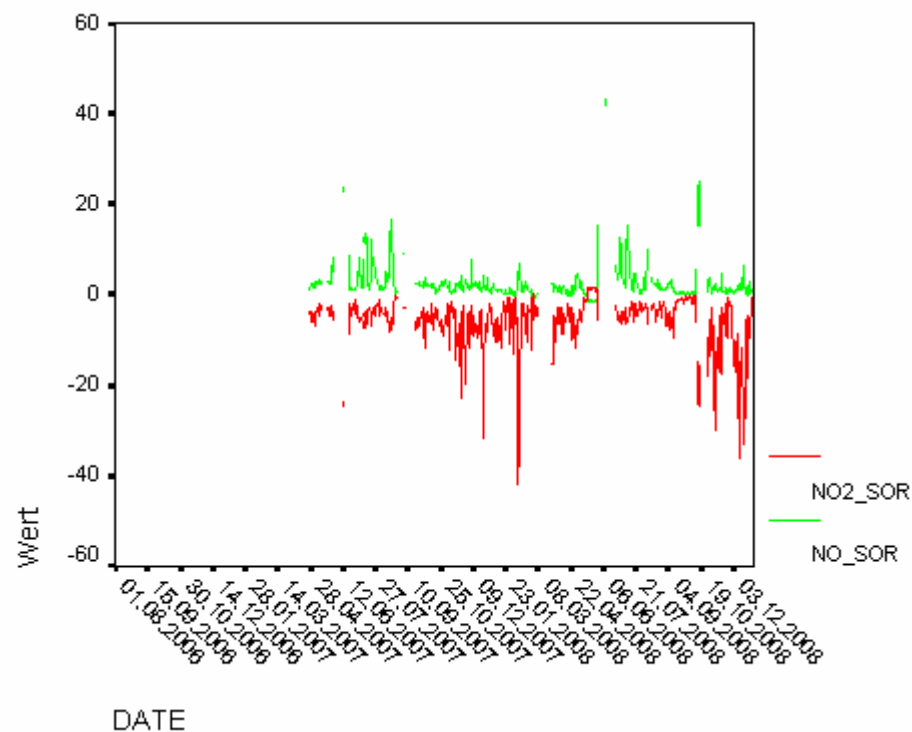
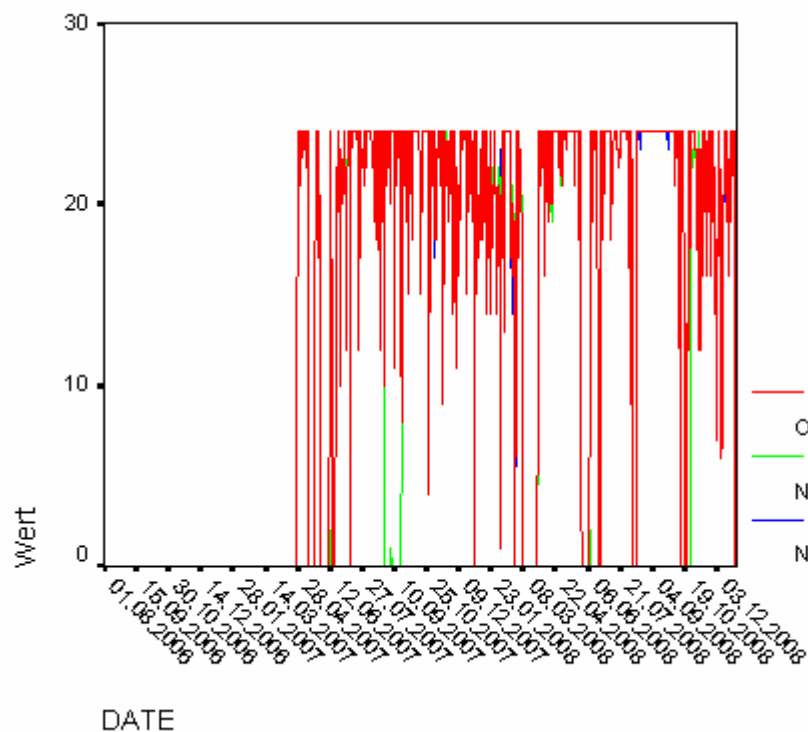
	NO2HOG_N	NO_HOG_N	NO2_HOG	NO_HOG
Valid	456	456	455	456
Missing	428	428	429	428
Mean	18.79	19.05	-27.9740	82.1382
SEM	.30	.30	1.2363	2.9541
Median	22.00	23.00	-21.6042	58.7346
SD	6.45	6.39	26.3706	63.0829
Minimum	0	2	-236.14	1.73
Maximum	24	24	-1.77	340.76

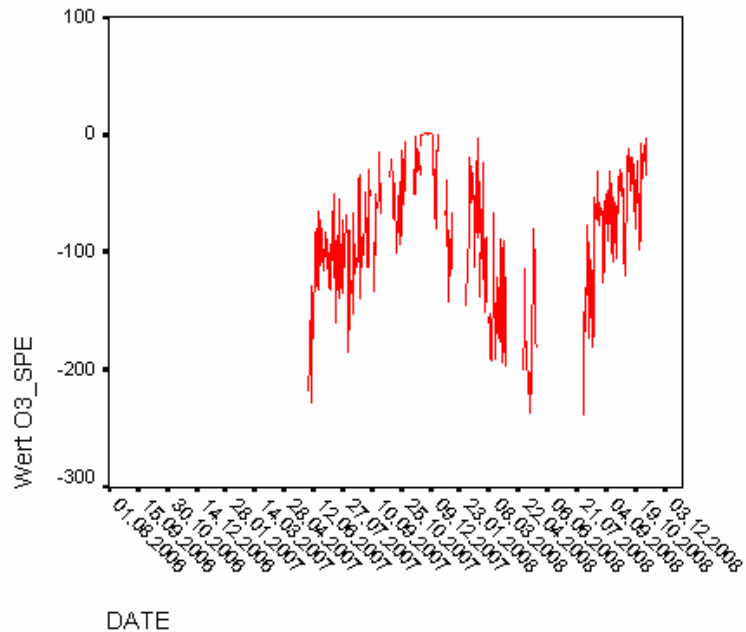




	O3_SOR_N	NO2SOR_N	NO_SOR_N	O3_SOR	NO2_SOR	NO_SOR
Valid	731	731	731	541	499	499
Missing	153	153	153	343	385	385
Mean	16.01	14.78	14.80	-164.6391	-5.9943	2.4572
SEM	.38	.39	.39	3.0497	.2617	.1718
Median	22.00	21.00	21.00	-160.2342	-4.5449	1.4916
SD	10.14	10.67	10.67	70.9343	5.8452	3.8380
Minimum	0	0	0	-378.87	-41.97	-1.73
Maximum	24	24	24	-1.42	1.71	43.21

Soroe

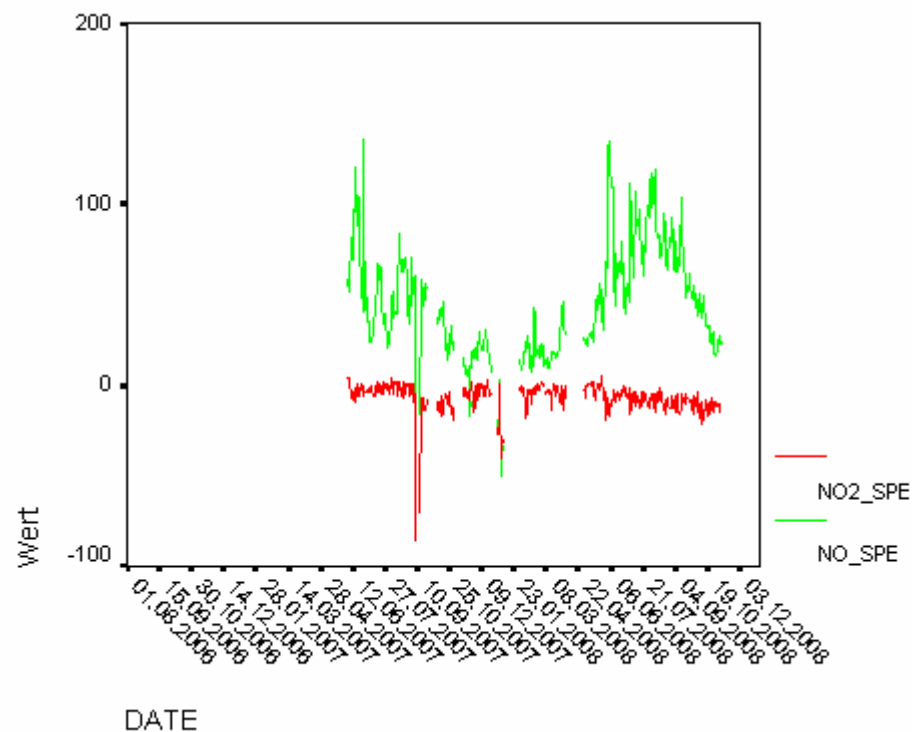
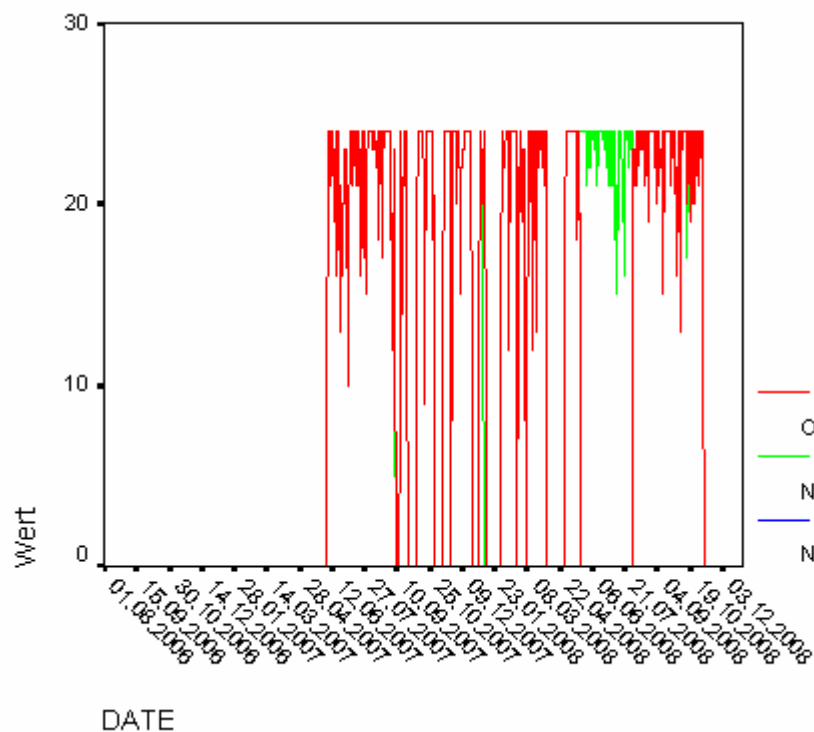


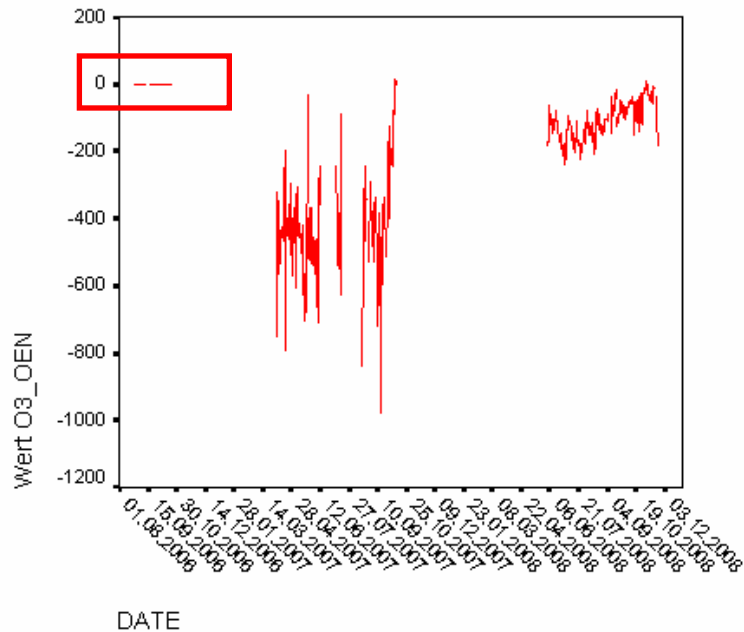


Valid
Missing
Mean
SEM
Median
SD
Minimum
Maximum

O3_SPE_N	NO2SPE_N	NO_SPE_N	O3_SPE	NO2_SPE	NO_SPE
731	731	731	361	429	429
153	153	153	523	455	455
10.85	13.00	13.00	-86.3626	-6.5410	46.4152
.42	.41	.41	2.9121	.3703	1.4489
.00	19.00	19.00	-81.5130	-5.2260	42.4982
11.25	11.19	11.19	55.3300	7.6692	30.0106
0	0	0	-237.58	-85.18	-49.92
24	24	24	1.08	4.67	136.26

Speulderbos

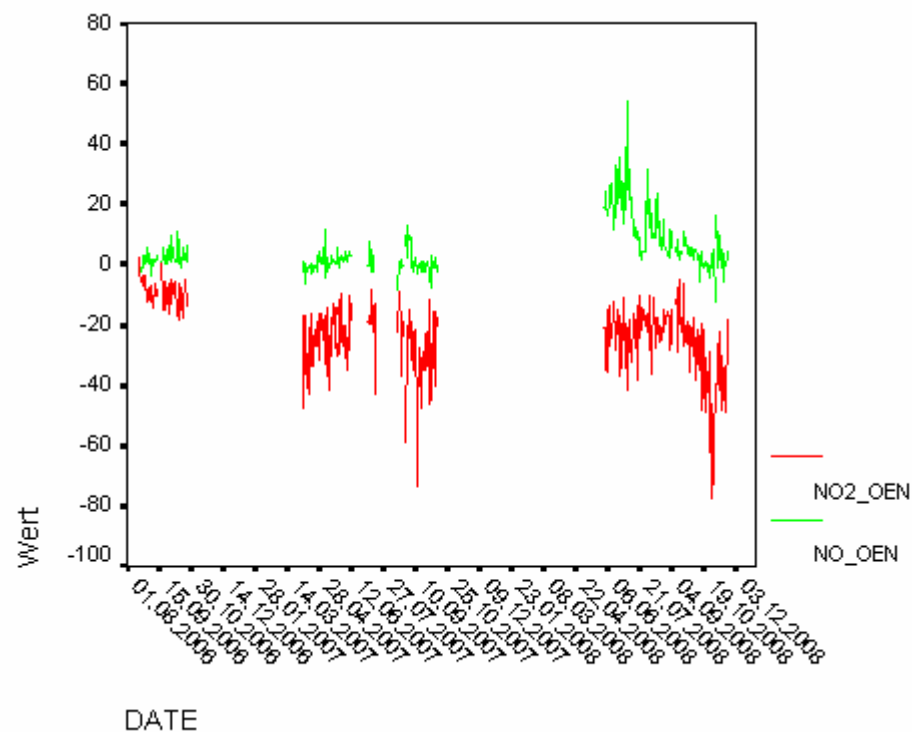
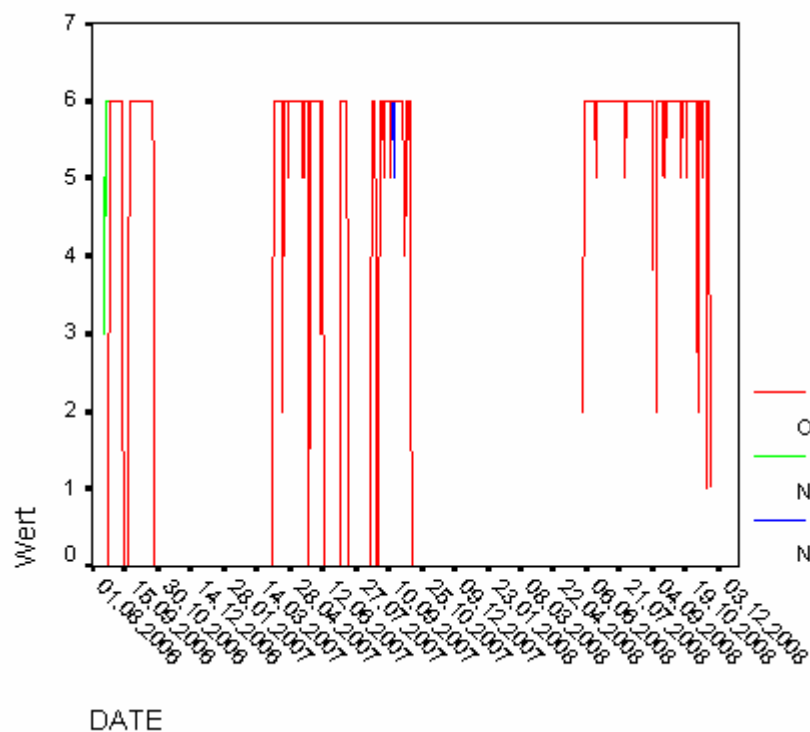




Valid
Missing
Mean
SEM
Median
SD
Minimum
Maximum

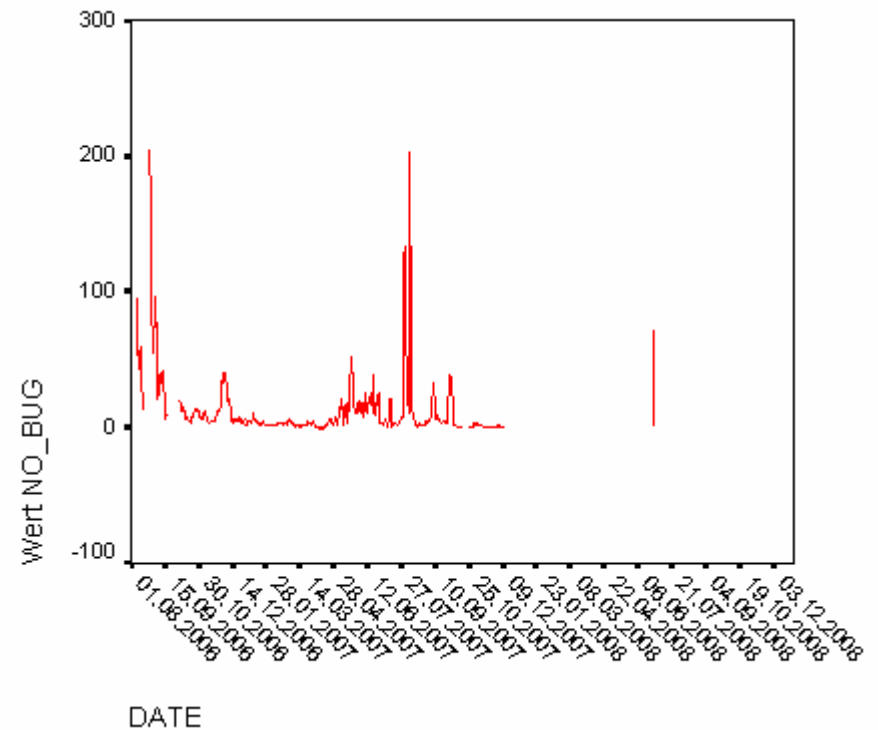
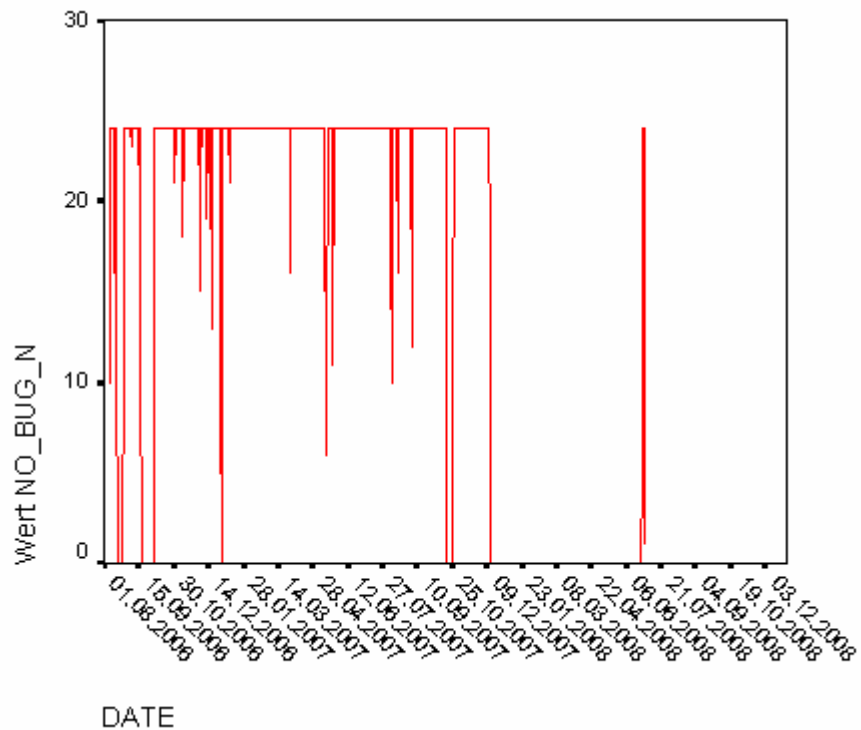
O3_OEN_N	NO2OEN_N	NO_OEN_N	O3_OEN	NO2_OEN	NO_OEN
434	434	434	352	360	360
450	450	450	532	524	524
4.64	4.74	4.74	-207.1129	-23.0978	5.3534
.11	.11	.11	10.6640	.6577	.4467
6.00	6.00	6.00	-137.0880	-21.1400	2.6160
2.38	2.30	2.30	200.0741	12.4783	8.4762
0	0	0	-975.93	-77.64	-12.12
6	6	6	13.53	2.10	54.42

Oensing



Bugac

	NO_BUG_N	NO_BUG
Valid	694	465
Missing	190	419
Mean	15.62	12.5632
SEM	.43	1.0918
Median	24.00	4.7175
SD	11.22	23.5437
Minimum	0	-.76
Maximum	24	203.35



Summary

- No measurements/data at/for 7 out of 13 Level 3 sites (Castellaro, Gebesee, Piana de Sele, Hyytiälä, Easterbush, Auchencorth Moss, Lompolojännkä), at Bugac only NO => reasons?
- At the sites where measurements are being performed, the average measurement frequency is at least 4 per day, in many cases much higher
- Grignon, Soroë & Oensingen are net sinks for NO_x
- Höglwald & Speulderbos are net sources of NO_x