

Table S1. Values for statically analyses trends in the different sampling time for burned areas.

	17 October	18 January	18 April	18 May	18 September	<i>p</i>
NO ₃ ⁻	0.32 (0–4.655)	1.12 (1–6.83)	1.89 (0.805–7.54)	1.36 (0.77–6.89)	0.74 (0.7–5.48)	n.s.
NO ₂ ⁻	0 (0–0.007) ab	0 (0–0.001) a	0 (0.004–0.006) b	0 (0–0.001) ab	0 (0.002–0.004) ab	0.028***
SO ₄ ²⁻	0.22 (0.0–0.48) b	0.35 (0.71–0.74) b	1.14 (0.49–1.58) ab	0.72 (0.13–1.06) ab	1.14 (0.84–1.32) a	0.034***
F ⁻	0.01 (0.01–0.02) a	0.03 (0.03–0.04) ab	0.07 (0.05–0.10) ab	0.27 (0.26–0.31) b	0 (0–0) a	0.003***
Cl ⁻	7.22 (6.64–8.54)	7.8 (7.66–8.92)	9.04 (7.71–9.27)	8.39 (7.62–9.62)	7.18 (6.92–8.84)	n.s.
PO ₄ ²⁻	0.09 (0.06–0.26)	0.07 (0.07–0.27)	0.11 (0.01–0.28)	0.02 (0.01–0.12)	0.05 (0.02–0.15)	n.s.
Na ⁺	6.79 ± 0.92	6.56 ± 0.96	7.62 ± 1.13	6.93 ± 0.96	5.84 ± 0.74	n.s.
K ⁺	0.72 (0.57–1)	0.5 (0.46–0.71)	0.53 (0.41–0.65)	0.66 (0.48–0.91)	0.77 (0.76–0.84)	n.s.
Ca ²⁺	1.82 (1.615–3.99)	2.06 (1.78–3.45)	1.17 (0.52–2.86)	1.92 (1.33–4.01)	2.14 (1.99–3.2)	n.s.
Mg ²⁺	0.51 (0.43–1.07)	0.72 (0.625–1.32)	0.44 (0.36–1.24)	0.85 (0.67–1.22)	0.62 (0.52–1.24)	n.s.
NH ₄ ⁺	0 (0–0.006)ab	0 (0–0)a	0 (0.002–0.011)b	0 (0–0)a	0 (0–0.001)ab	0.014***
Colour	0.457 ± 0.395	0.29 ± 0.247	0.209 ± 0.207	0.196 ± 0.154	0.295 ± 0.202	n.s.
Silica	10.74 ± 2.85	11 ± 3.52	10.51 ± 3.96	10.45 ± 3.7	11.83 ± 3.16	n.s.
pH	5.83 ± 0.23b	5.74 ± 0.04d	5.73 ± 0.29d	5.8 ± 0.19c	6.42 ± 0.15a	0.006**
EC	46.22 ± 9.94	45.67 ± 9.22	47.67 ± 8.53	42.65 ± 9.68	44.45 ± 9.32	n.s.
Turbidity	0 (0–0.22)	0 (0–0.01)	0.01 (0–0.02)	0 (0–0.01)	0.04 (0–0.1)	n.s.
HCO ₃ ⁻	12.9 (10.1–26.5)	10.99 (7.25–17.01)	8.81 (4.42–12.6)	8.95 (5.7–14)	11.15 (8.8–15.3)	n.s.
COD	2.56 ± 0.33c	8.27 ± 0.72a	8.87 ± 0.84a	5.54 ± 1.72b	4.6 ± 1.21bc	<0.001*
TOC	0.26 ± 0.09	0.29 ± 0.18	0.44 ± 0.1	0.45 ± 0.05	0.41 ± 0.12	n.s.
Cd	0.1 (0.1–0.1)	0.15 (0.15–0.15)	0.1 (0.1–0.1)	0.15 (0.1–0.2)	0 (0–0)	n.s.
As	1.66 ± 0.63	0.8 ± 0.53	0.77 ± 0.51	0.87 ± 0.7	1.07 ± 0.82	n.s.
Pb	0 (0–0)	0.2 (0.2–0.2)	0 (0–0)	0 (0–0)	0 (0–0)	n.s.
Ni	6.65 (6.65–6.65)	0.7 (0.35–3.05)	0.2 (0.2–0.2)	0 (0–0)	0 (0–0)	n.s.
Cu	4.07 (2.55–5.6)	4.15 (4.15–4.15)	4.42 (1.2–7.7)	0.85 (0.7–6.5)	2.2 (2.2–2.2)	n.s.
Zn	0 (0.007–0.0105)	0.02 (0.02–0.02)	0 (0–0)	0 (0–0)	0 (0–0)	n.s.
Cr	0.64 (0.185–1.1)	0.9 (0.7–2.65)	0.35 (0.35–0.35)	0 (0–0)	0 (0–0)	0.011***
Fe	3.05a (0.32–6.1)	14.66b (13.52–30.48)	8.16ab (7.4–13.98)	9.6ab (8.5–10.43)	44.15b (4.92–56.04)	0.044***
Mn	2.07 ± 1.72	2.56 ± 1.36	2.22 ± 1.03	1.52 ± 0.9	2.11 ± 1.29	n.s.
ΣPAHs	10.37 (7.01–14.45) a	6.95 (0.02–16.17) ab	15.75 (13.18–19.12) ab	21.02 (15.59–29.24) b	16.4 (14.74–19.03) ab	0.020***

$\sum_{\text{PAHs Car}}$	1.59 (0.95–4.14) a	4.73 (4.73–4.73) ab	9.96 (9.88–10.41) ab	10.7 (9.76–12.93) b	3.02 (2.32–6.97) ab	0.022***
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Data expressed as mean $\pm$ standard deviation or as median (minimum–maximum). n.s., not significant. Different letters for each sample location in a row show statistically significant differences ($p < 0.05$) between means in normal distribution and median in non-normal distribution. * p Values from one-way ANOVA analysis. Means were compared by Tukey's test, since homogeneity of variances was confirmed by Levene's test ($p > 0.05$). ** p Values from one-way Welch ANOVA analysis. Means were compared by Dunnett T3's test, since homogeneity of variances was not confirmed by Levene's test ($p < 0.05$). *** p Values from Kruskal-Wallis analysis. Medians were compared by Mann-Whitney's test.