

Supporting Information 2

Trace elements in peat bog porewaters: indicators of dissolution of atmospheric dusts and aerosols from anthropogenic and natural sources

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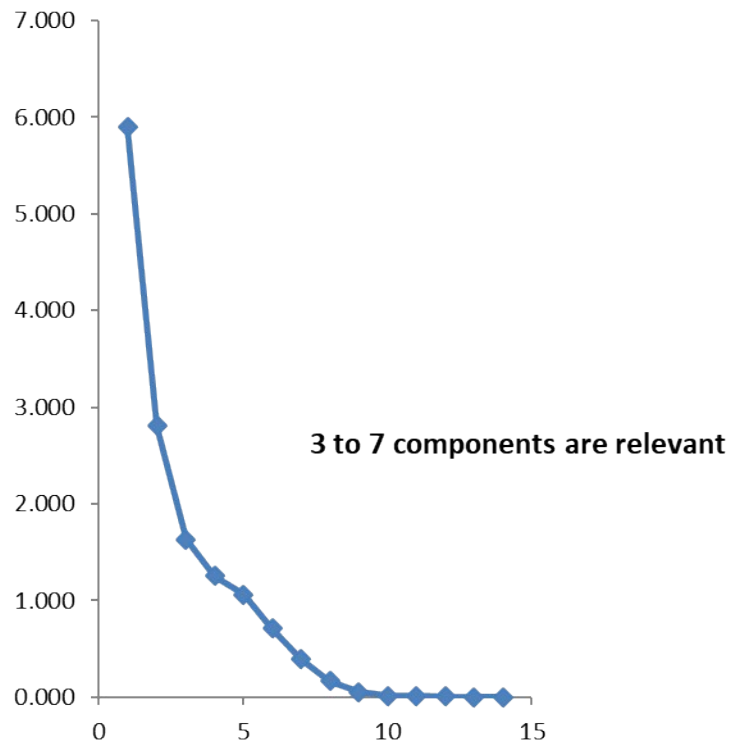
⁷ Hatfield Consultants, Suite A, 300 MacKenzie Boulevard, Fort McMurray, AB T9H 4C4

- 42 Number of pages (including cover page): 13
- 43 Number of matrixes: 1
- 44 Number of figures: 10

Correlates ($R > 0.9$; $p < 1 \times 10^{-13}$)		PC1	PC2	PC3	PC4	PC5	PC6	PC7
	pH	-0.01	0.40	-0.22	-0.14	0.63	-0.14	0.17
Na	K	0.22	0.03	0.58	0.25	0.12	0.12	-0.06
	Mg	0.27	0.43	0.04	0.06	0.12	0.03	-0.19
	Ca	0.15	0.52	-0.19	0.08	0.11	0.05	-0.15
EC, Na, Rb	Cl	0.32	-0.03	0.44	0.16	0.14	-0.10	-0.18
	Ag	-0.03	-0.34	-0.25	0.14	0.39	0.65	-0.46
Co, Cs, Tl, Zn	Cd	0.33	-0.23	0.07	0.09	0.20	-0.33	-0.10
	Cu	0.05	-0.26	-0.39	0.55	0.16	-0.43	0.02
Al, Re, V	Ga	0.36	-0.18	-0.25	-0.10	-0.01	-0.15	0.01
	Mn	0.27	-0.21	0.05	-0.44	0.29	0.14	0.39
	Pb	0.27	-0.17	-0.07	-0.54	-0.04	-0.20	-0.38
Al, Be, Ce, Cr, Dy, Er, Eu, Fe, Gd, Ho, La, Lu, Mo, Nd, Ni, Pm, Rb, Sb, Sm, Sr, Tb, Tl, V, Y	Pr	0.35	0.11	-0.25	0.00	-0.34	0.21	0.02
Ba, Be, Ce, Dy, Er, Eu, Fe, Gd, Ho, La, Li, Lu, Mo, Nd, Ni, Pm, Pr, Re, Sm, Tb, Th, Tm, Y, Yb	Sr	0.35	0.15	-0.18	0.09	-0.35	0.07	-0.13
	U	0.34	-0.08	-0.06	0.23	-0.01	0.31	0.58

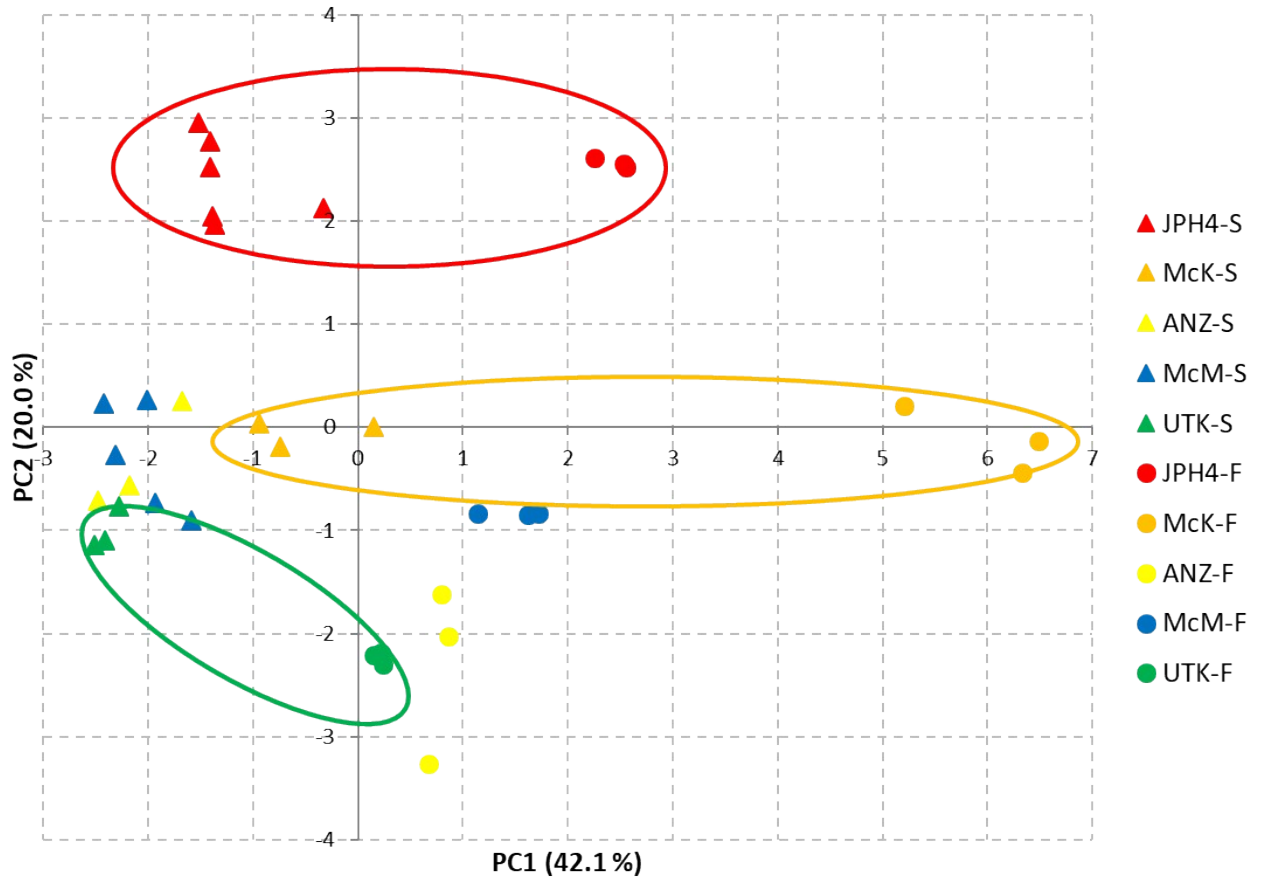
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 46 **Matrix 1.** Matrix of variable loadings at each principal component and variable correlations with other factors.

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49 **Figure 1.** Scree plot of the Principal Component Analysis (PCA).



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51 **Figure 2.** Principal Component Analysis (PCA) showing principal components (PC) 1 and 2.

52 Note: S = Summer, F = autumn.

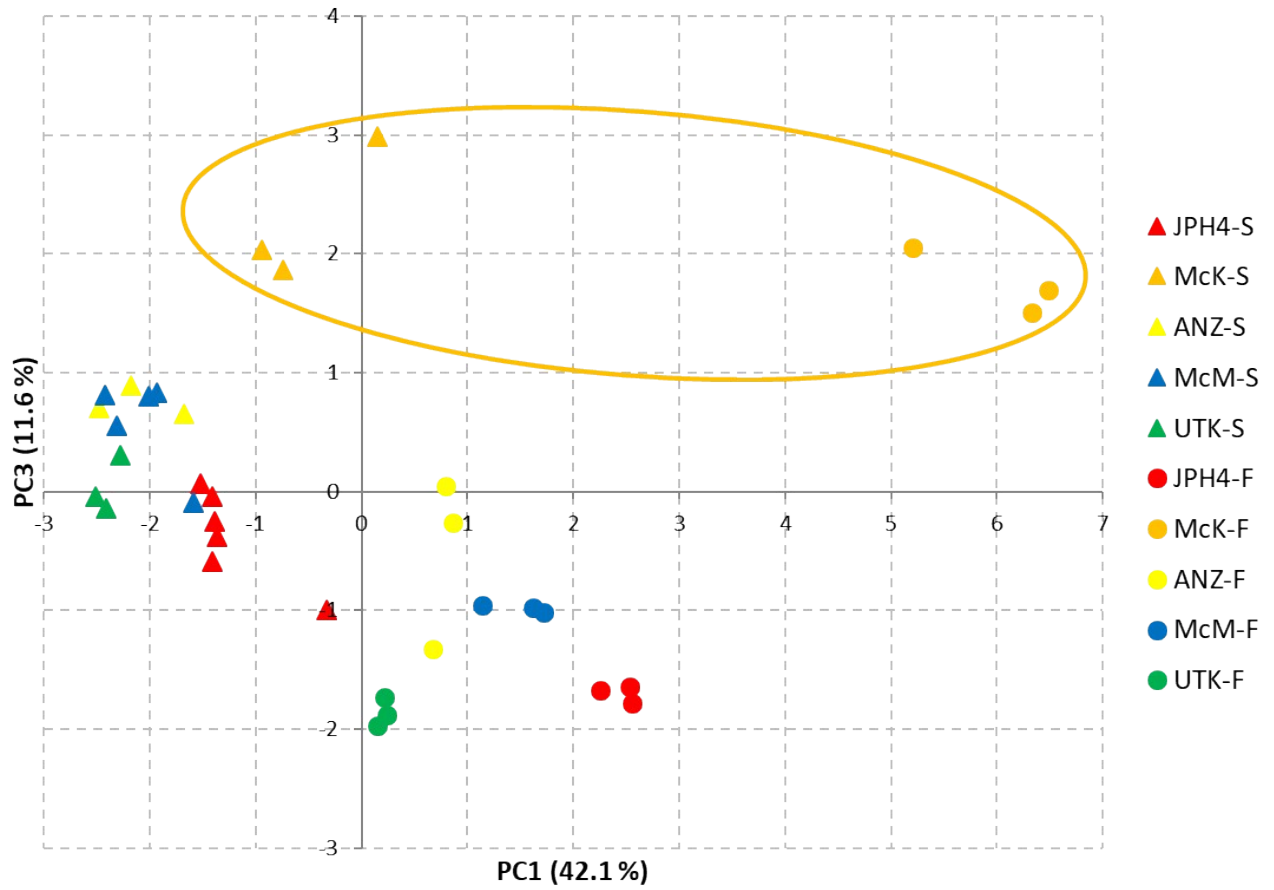
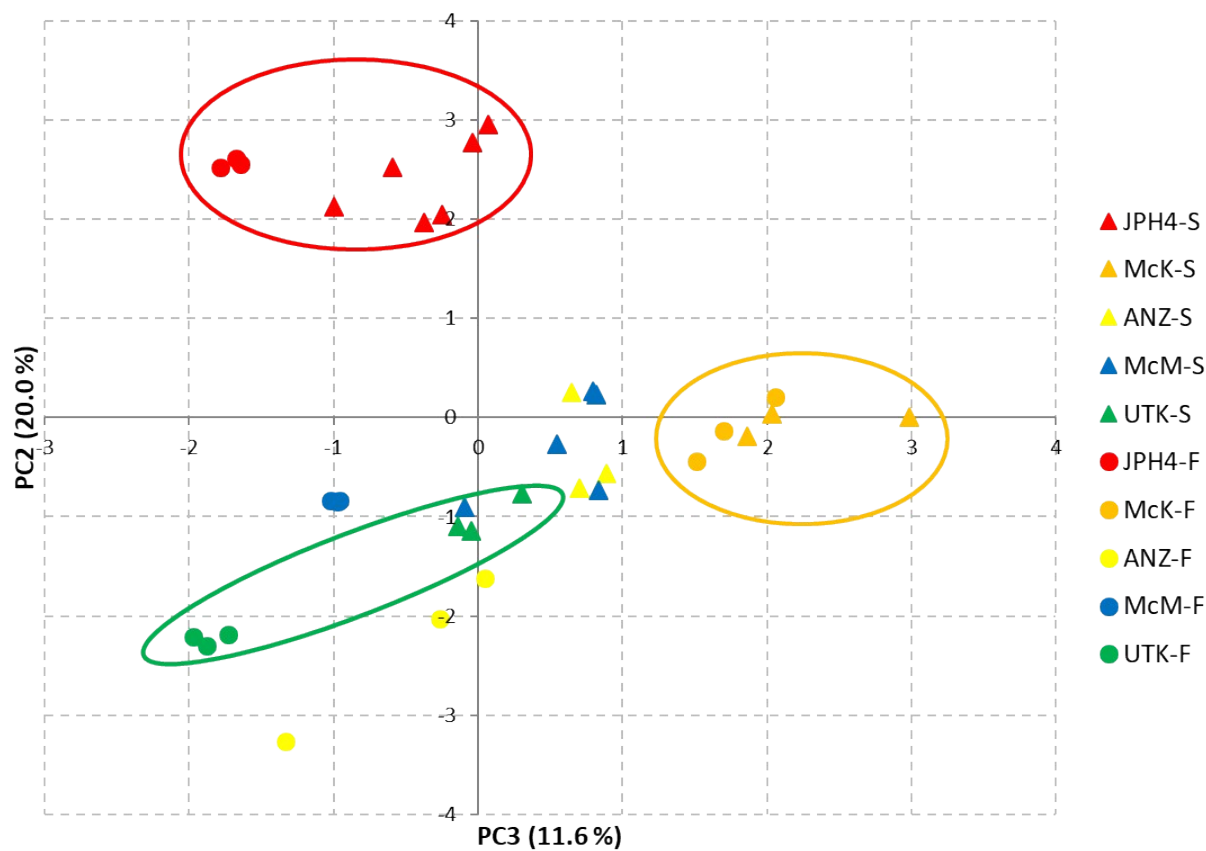


Figure 3. Principal Component Analysis (PCA) showing principal components (PC) 1 and 3.

Note: S = summer, F = autumn.



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 58 **Figure 4.** Principal Component Analysis (PCA) showing principal components (PC) 2 and 3.
 59 Note: S = summer, F = autumn.
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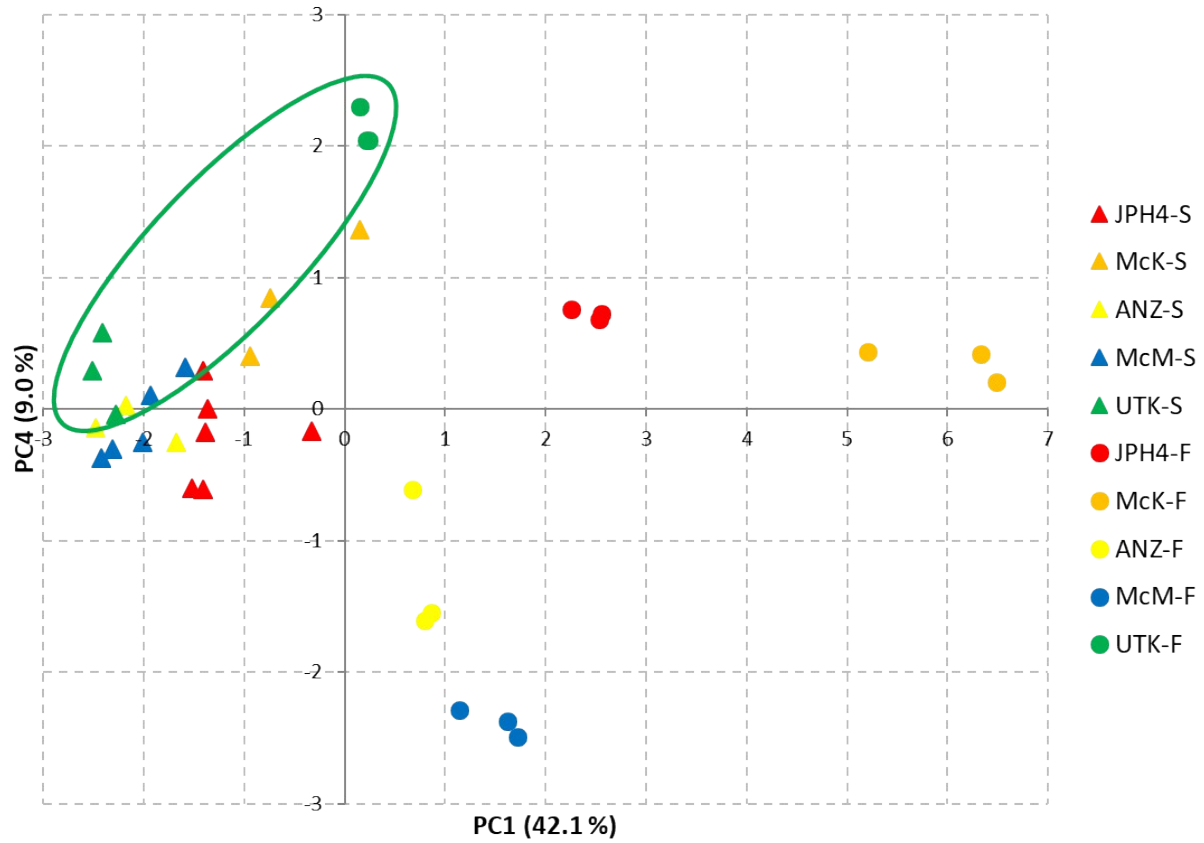


Figure 5. Principal Component Analysis (PCA) showing principal components (PC) 1 and 4.
Note: S = summer, F = autumn.

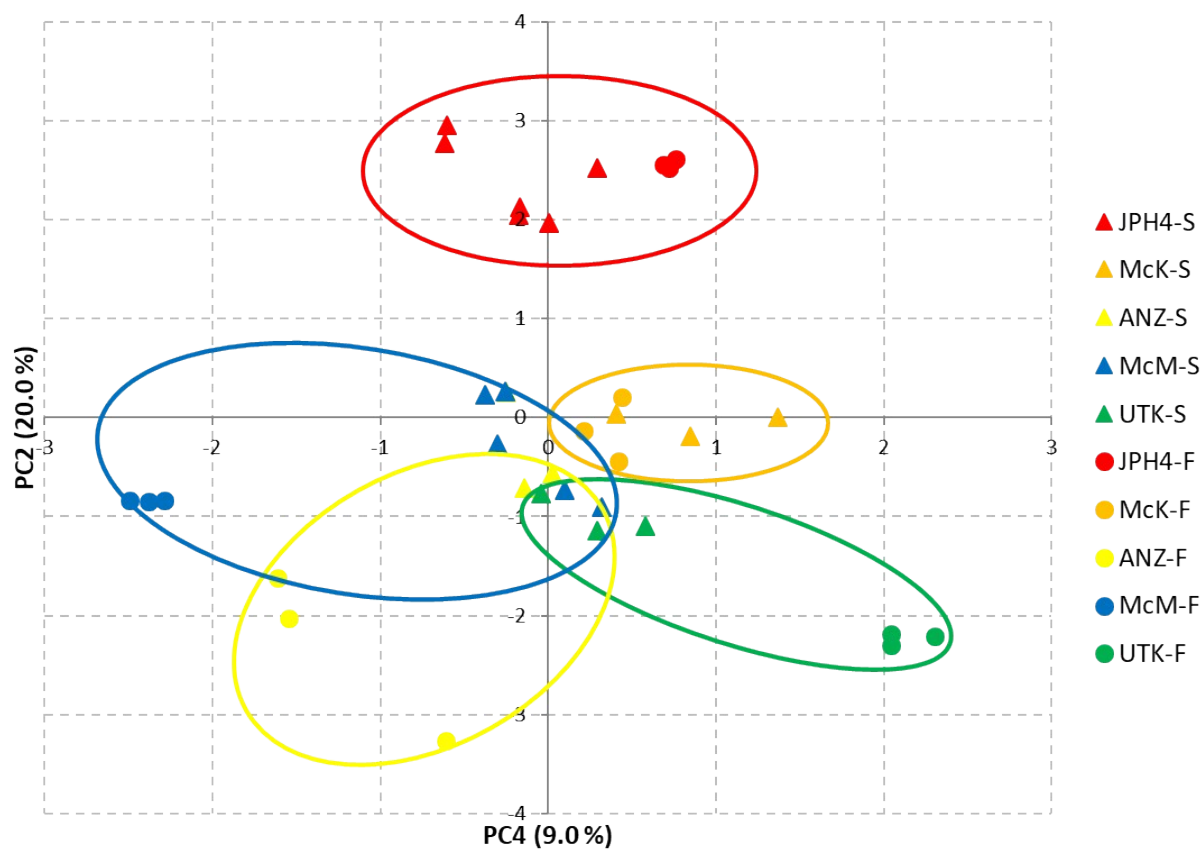
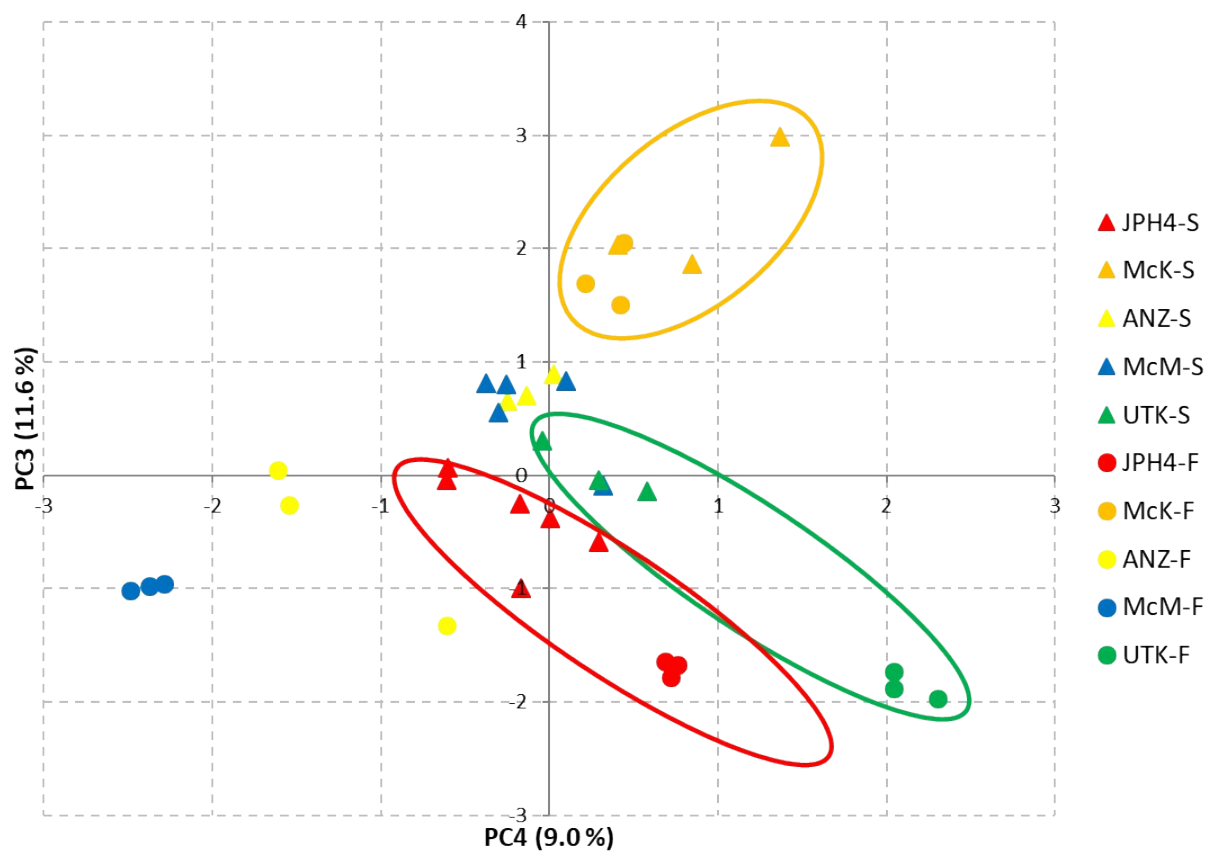


Figure 6. Principal Component Analysis (PCA) showing principal components (PC) 2 and 4.
Note: S = summer, F = autumn.



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 70 **Figure 7.** Principal Component Analysis (PCA) showing principal components (PC) 3 and 4.
 71 Note: S = summer, F = autumn.
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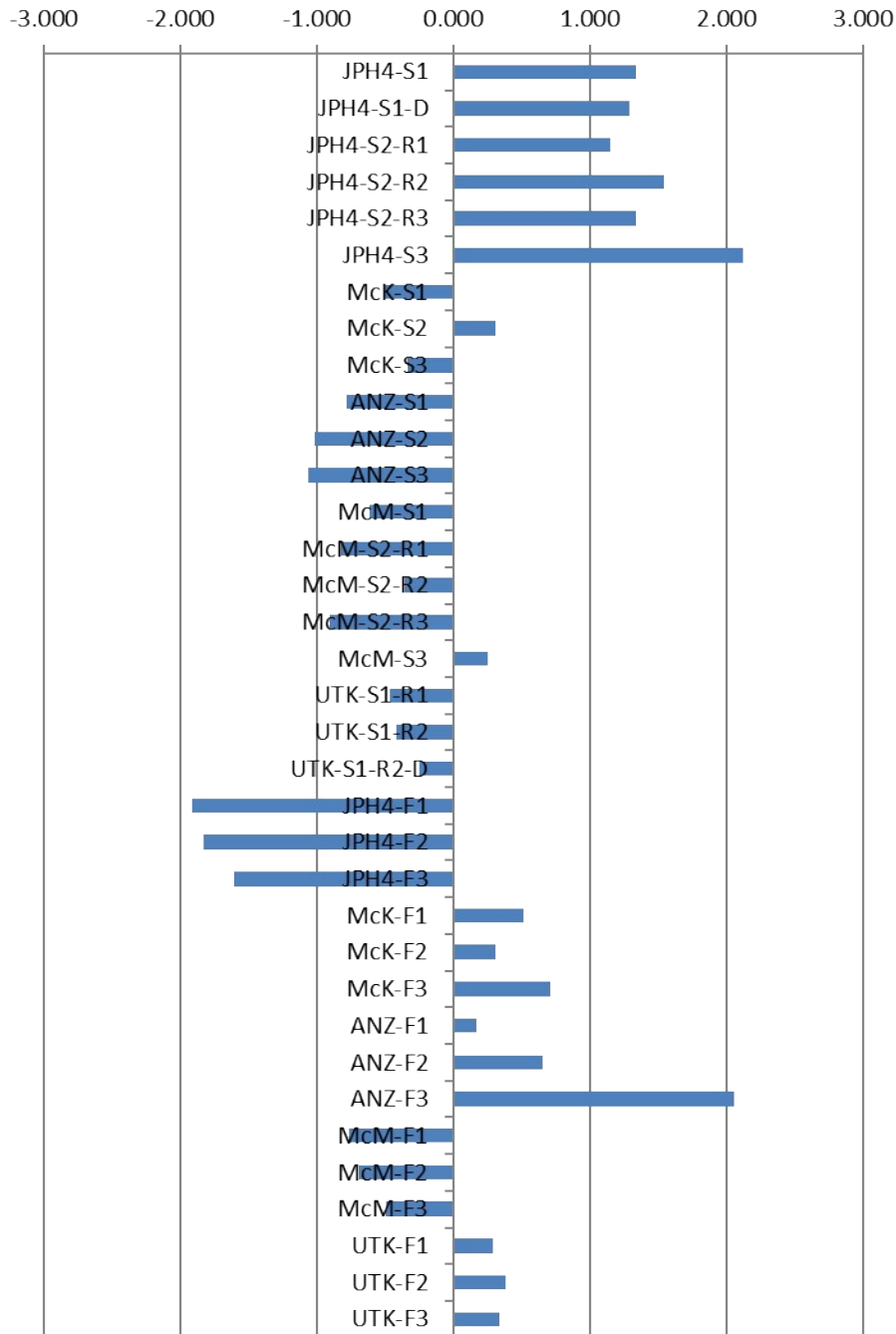
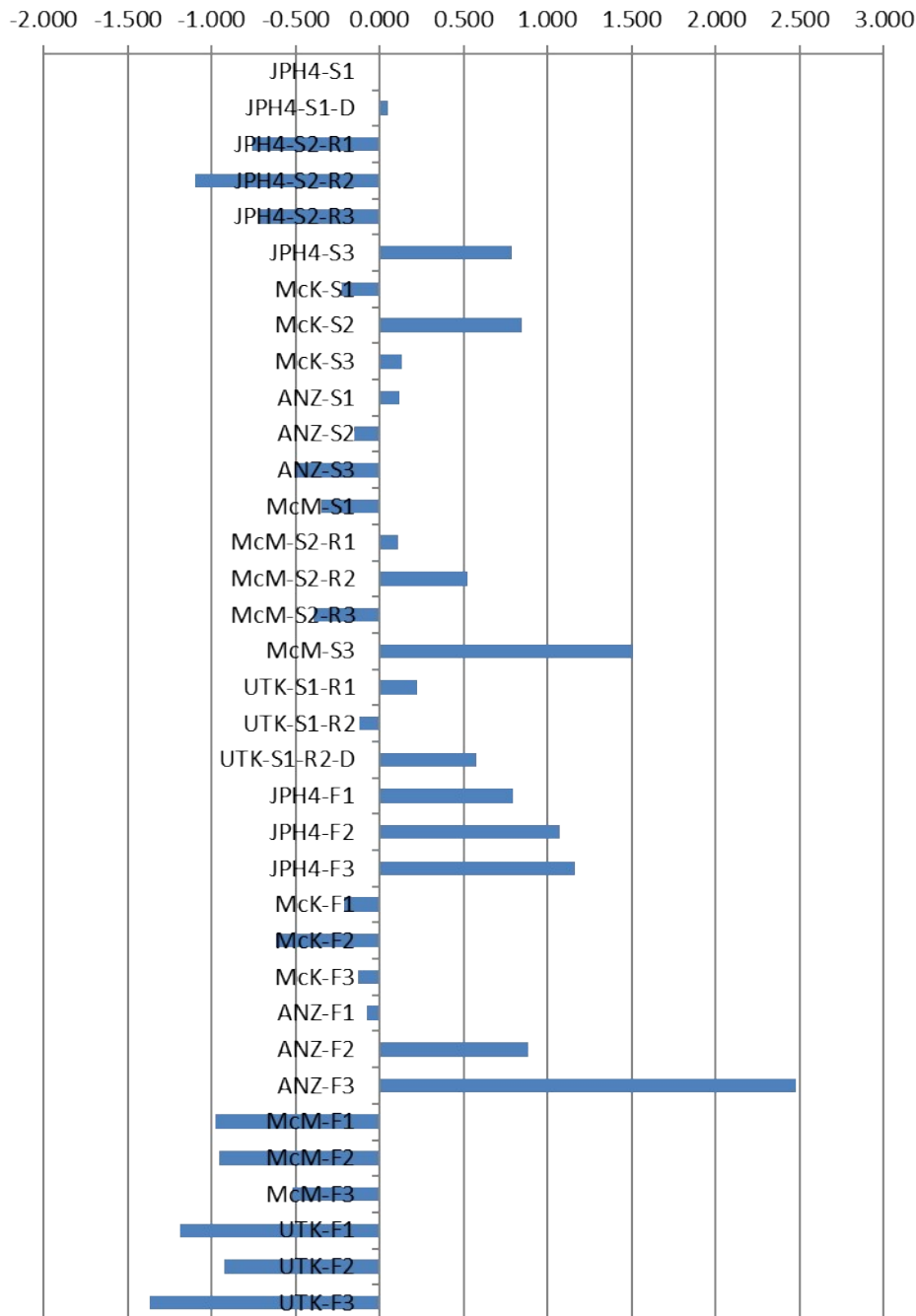


Figure 8. Principal Component Analysis (PCA) showing sample scores at principal component (PC) 5.

Note: S = summer, F = autumn.



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79 **Figure 9.** Principal Component Analysis (PCA) showing sample scores at principal
 80 component (PC) 6.

81 **Note:** S = summer, F = autumn.

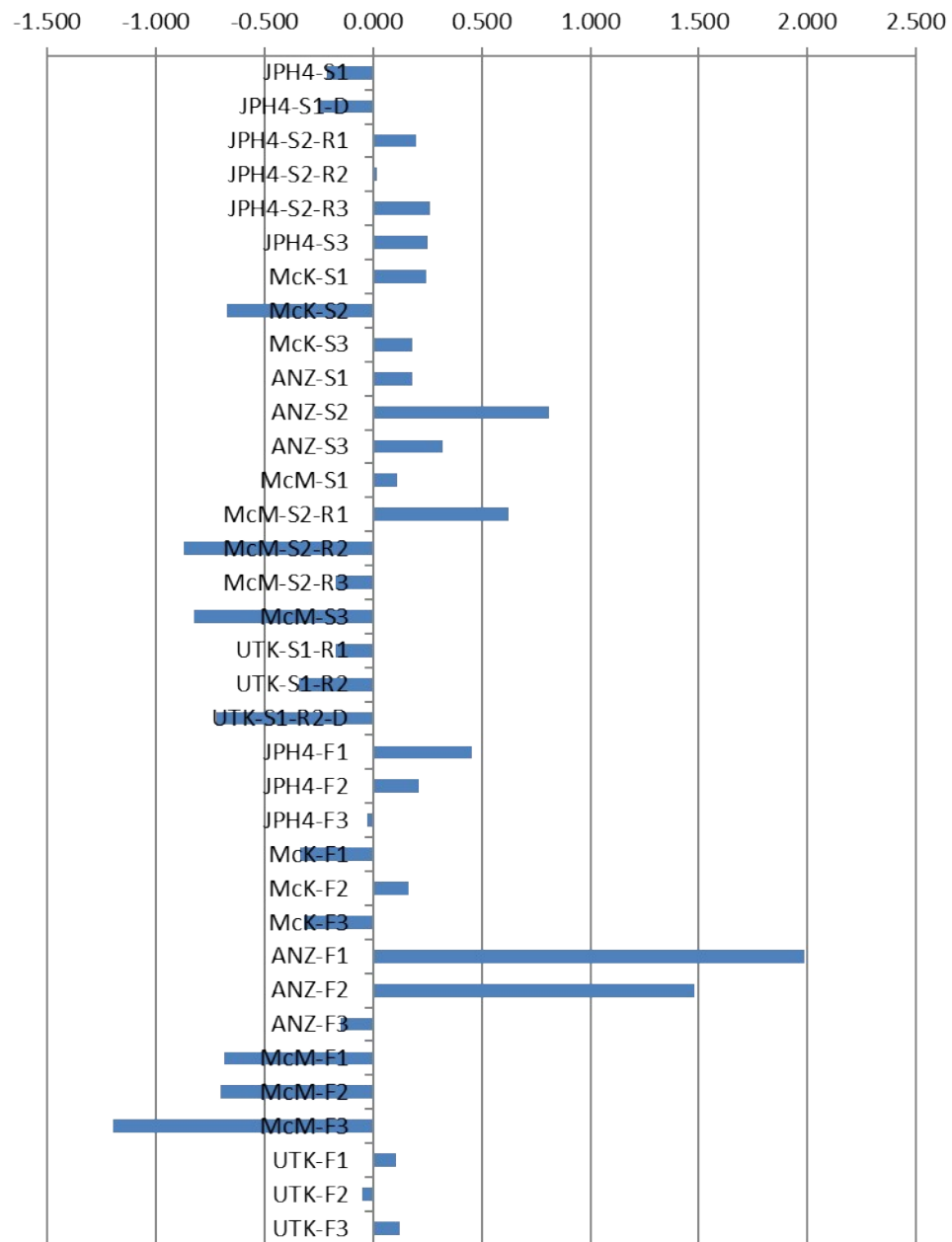


Figure 10. Principal Component Analysis (PCA) showing sample scores at principal component (PC) 7.

Note: S = summer, F = autumn.