



## Correction to: Compositional dynamics of suspended sediment in the Rhine River: sources and controls

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Table 4 in the originally published article is not correct.  
Correct Table 4 is shown below.

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**Table 4** Results of PCA of element concentrations in suspended sediment in the Rhine River.**a. Not-normalised concentrations**

	Component 1	Component 2	Component 3	Component 4	Component 5
<b>Proportion of variance explained</b>	0.460	0.234	0.059	0.046	0.024
<b>Elements with positive loadings</b>					
<b>Values &gt; 0.20</b>	-	Ba, Ti, Cr, Cu, Ag, Zn, Cd, Hg, Sn, Pb, As, and Sb	Nb (+0.36)	K, Nb, Mo, Mn, P (+0.47), Sb	Sm (+0.54), W, Mn, Co, Ni
<b>Values between 0.15 and 0.20</b>	-	Na, La, W, Mn, and Te	Co	-	Mo
<b>Elements with negative loadings</b>					
<b>Values &lt; -0.20</b>	-	-	Na, K, Sm, Zr (-0.39), W, and Sn (-0.30)	Mg, Ca (-0.37), and Sr (-0.31)	K, Ti, and Nb
<b>Values between -0.15 and -0.20</b>	Li, K, Rb, Cs, Be, REEs (except La and Sm), Fe, Co, Ni, Al, Ga, Tl	-	-	-	Rb, V, Tl, and Sb
<b>Relations with component scores</b>					
<b>Q</b>	r = -0.48; p < 0.001	r = -0.59; p < 0.001	n.s. (p > 0.10), but scores seem to show a delayed negative response	n.s. (p > 0.10)	n.s. (p > 0.10)
<b>Clay (&lt;2 μm)</b>	r = -0.63; p < 0.001	r = -0.28; p < 0.001	n.s. (p > 0.10)	r = 0.21; p = 0.008	n.s. (p > 0.10)
<b>Org. C</b>	r = 0.61; p < 0.001	r = 0.14; p < 0.1	n.s. (p > 0.10)	r = 0.68; p << 0.001	n.s. (p > 0.10)
<b>Remarkable trends in component scores</b>					
<b>Long-term trend</b>	-	-	Jumpwise increase in early 2013	-	Jumpwise decrease in early 2014
<b>Seasonality of monthly averaged scores</b>	Strong seasonality with negative values between October and March and positive values between April and September with a peak in May	Weak, but clear seasonal pattern with generally negative values from January through August and positive values from September through December	-	Weak, but clear seasonal trend with positive values from January through June with a peak in April and negative values in the second half of the year	Weak seasonal trend with negative values from January through May and positive values from August through December

Table 4 (continued)

b. Al-normalised concentrations

	Component 1	Component 2	Component 3	Component 4	Component 5
<b>Proportion of variance explained</b>	0.523	0.137	0.058	0.041	0.035
<b>Elements with positive loadings</b>					
<b>Values &gt; 0.20</b>	-	Zr and Sn	Li, K (0.37), Rb, Mg, Ca, Sm, and P	Ca, Sr, Nb (0.31), and Mn	Mg (0.33), Ca, Sr, U
<b>Values between 0.15 and 0.20</b>	-	Ba, W, Sb, and Te	Sr, Th, and W	Mg, La, P, and Sb	K, Hg, and Ga
<b>Elements with negative loadings</b>					
<b>Values &lt; -0.20</b>	-	-	-	Li, Ce, Pr, Tl and Zr	Nb, Mo, Ge, P (-0.32), and Sb
<b>Values between -0.15 and -0.20</b>	majority of metals	REEs except La, Pr, and Sm	Contaminant metals Cr, Cu, Ag, Zn, Cd, Hg, Pb	Nd, Th, and Sn	K, Be, Ce, and Pr
<b>Relations with component scores</b>					
<b>Q</b>	r = 0.60; p << 0.001	r = -0.33; p << -0.001	n.s. (p > 0.10)	r = -0.21; p = 0.009	r = -0.23; p = 0.004
<b>Clay (&lt;2 μm)</b>	r=0.49; p <<0.001	r = -0.23; p = 0.004	n.s. (p > 0.10)	r = -0.31; p << 0.001	n.s. (p > 0.10)
<b>Org. C</b>	r= -0.44, p << 0.001	r = 0.30; p << 0.001	r = 0.31; p << 0.001	r=0.26; p = 0.001	r=-0.58; p << 0.001
<b>Remarkable trends in component scores</b>					
<b>Long-term trend</b>	-	Jumpwise decrease in early 2013	Slightly decreasing trend	Slight jumpwise increase in April 2014	-
<b>Seasonality of monthly averaged scores</b>	Strong seasonality with large positive values during January and February and generally negative values between April and September	-	Weak but clear seasonal trend with positive values from March to August and negative values from September to February	Weak but clear seasonal trend with positive values from April to August and generally negative values from September to March	Weak but clear seasonal trend with negative values from January through June and positive values during the second half of the year

Table 4 (continued)

## c. Organic-C-normalised concentrations

	Component 1	Component 2	Component 3	Component 4	Component 5
<b>Proportion of variance explained</b>	0.440	0.244	0.055	0.063	0.044
<b>Elements with positive loadings</b>					
<b>Values &gt; 0.20</b>	-	Ba, Ti, V, Cr, Cu, Ag, Zn, Cd, Hg, Sn, Pb, As, and Sb	Nb	Nb, Mo, Mn (0.33), P (0.48), and Sb	Sm (0.44), W, Ni, and Ge
<b>Values between 0.15 and 0.20</b>	Ca	Na, La, W, Mn, and Te	Co	K	Co
<b>Elements with negative loadings</b>					
<b>Values &lt; -0.20</b>	-	-	Na, K (-0.33), Sm, Zr (-0.39), and Sn	Ca	K, Rb, La, Ti, and Nb
<b>Values between -0.15 and -0.20</b>	Li, Rb, Cs, Be, Y, majority of REEs (except La and Sm), V, Fe, Al, and Ga	-	Li, W, and Te	Mg, Sr, U, Cr, and Hg	V, Al, and Sb
<b>Relations with component scores</b>					
<b>Q</b>	r = -0.48; (p << 0.001)	r = -0.59; (p << 0.001)	n.s. (p > 0.10)	n.s. (p > 0.10)	r = 0.18; (p = 0.02)
<b>Clay (&lt;2 μm)</b>	r = -0.65; (p << 0.001)	r = -0.26; (p < 0.001)	n.s. (p > 0.10)	n.s. (p > 0.10)	n.s. (p > 0.10)
<b>Org. C</b>	r = 0.41; (p << 0.001)	r = 0.28; (p < 0.001)	n.s. (p > 0.10)	r = 0.71; (p << 0.001)	n.s. (p > 0.10)
<b>Remarkable trends in component scores</b>					
<b>Long-term trend</b>	-	-	Increase in second half 2012 / early 2013	-	Jumpwise decrease in April 2014
<b>Seasonality of monthly averaged scores</b>	Strong seasonality with negative values between November and March and positive values between April and October	-	-	Weak but clear seasonal trend with positive values from February to June and negative values during the rest of the year	-