Table 3. Results of the factor analysis and the selected element associations for the AGF maps. The superfix shows the variation of the element as a of the total element variation.

Media	Results of factor analysis	Element associations for particular AGF maps
Stream sediment (SSE)	$F_1(V^{825}Co^{824}Fe^{817}Ni^{798}Sc^{753}Cu^{607}Mn^{579}Zn^{556}Al^{521}Ti^{478})$+ $F_9(Cr^{752}Ni^{324})$	M_1(CoCrCuNiV), M_2(FeMn)
	$F_2(Y^{784}Zr^{775}Th^{772}Ti^{752}Ce^{767}U^{651}Nb^{648}La^{471}P^{355})$ + $F_{10}(La^{798}Th^{365}Ce^{353})$ + $F_5(Sr^{865}Ba^{795}Al^{327})$	M_5(CeLaNbThY), M_7(BeZrTiSc), M_9(PUSr), M_{11}(AlBa)
	$F_6(Mo^{854}Mn^{454})$+$F_7(Pb^{727}U^{453}Zn^{360}Cd^{330})$ + $F_8(As^{887}P^{446}Cu^{356})$	M_3(CdMoPbZn), M_4(CdMoPbZnAs)
	$F_3(Rb^{886}K^{861}Be^{748}Tl^{656}Al^{605}Nb^{438})$	M_{12}(KRbTl)
	$F_4(Ca^{947}Mg^{808}Sr^{327})$	M_8(CaMg)
Soil C-horizon, aqua regia extraction, (CHO_{ar})	$F_1(Cr^{882}V^{869}Co^{868}Ni^{858}Fe^{830}Ti^{809}Cu^{825}K^{751}Al^{730}Zn^{728}Ba^{727}Mn^{642}Be^{634})$	M_1(CrNiCoCuV), M_2(FeMn), M_{11}(AlBa)
	$F_2(Ca^{895}Sr^{794}Na^{684}Mg^{580}P^{381})$ + $F_6(B^{849})$ + $F_8(P^{814})$	M_9(PSr),
	$F_3(As^{813}Sb^{650}Bi^{489})$ + $F_4(Pb^{648}Bi^{537}Be^{491}Zn^{376})$ + $F_5(Cd^{871})$ + $F_7(Mo^{984})$	M_3(CdMoAsSbBi), M_4(PbZn)
Soil C-horizon, total concentration, (CHO_{tot})	$F_1(Ni^{913}Co^{902}Cr^{900}V^{893}Fe^{869}Cu^{800}Ti^{751}Mg^{817}Zn^{721})$	M_1(CrNiCoCuV), M_2(FeMn)
	$F_2(K^{870}Rb^{822}Ba^{819}Pb^{771}Tl^{756}Al^{680}Ga^{659})$	M_{12}(KGaRbTl), M_{11}(AlBa)
	$F_3(Zr^{855}Y^{561}Ti^{471}Ce^{459}Th^{427})$ + $F_5(Nb^{705}U^{374})$ + $F_{10}(La^{765})$	M_5(CeLaSnUY), M_6(ZrNbTh)
	$F_4(Ca^{868}Sr^{771}Mg^{391})$	M_8(CaMg)
	$F_6(Sb^{843}As^{513})$ + $F_7(Bi^{881}As^{360}Pb^{321})$ + $F_9(Cd^{891}Zn^{267})$	M_4(PbZnMo), M_3(AsSbBi)
Till, <0.06 mm, (Till)	$F_1(Ni^{864}Co^{852}Fe^{796}Cu^{763}Mg^{754}Cr^{739}Mn^{728}Zn^{706}V^{657}Al^{603}Pb^{474})$+ $F_7(Mo^{909}Pb^{249})$	M_1(CoCrCuNiVMg), M_2(FeMn), M_4(ZnPbMo)
	$F_4(Ti^{825}V^{537})$ + $F_5(Zr^{886}La^{476}Mn^{441})$ + $F_6(P^{868}La^{535})$	M_5(ZrTiPLaSr)
Surface water, (SW)	$F_1(Ca^{880}Mg^{848}Sr^{739}U^{562}Mo^{450})$	M_8(CaMg)
	$F_2(Br^{902}Cl^{849}Na^{833}B^{704})$	M_{15}(BrClNa)
	$F_4(V^{766}Th^{604}Al^{526}Tl^{363})$	M_{16}(VAlTh)
	$F_5(Zn^{778}Cd^{703}Pb^{660}Cu^{466}Al^{329})$ + $F_6(Sb^{800}Cu^{442}Pb^{349})$	M_4(CdPbZn)
	$F_7(F^{747}Mo^{580}U^{527})$	M_{14}(UMo)
	$F_{10}(Ni^{879}Cu^{451}Cr^{345}Co^{338})$	M_1(NiCrCoCu)