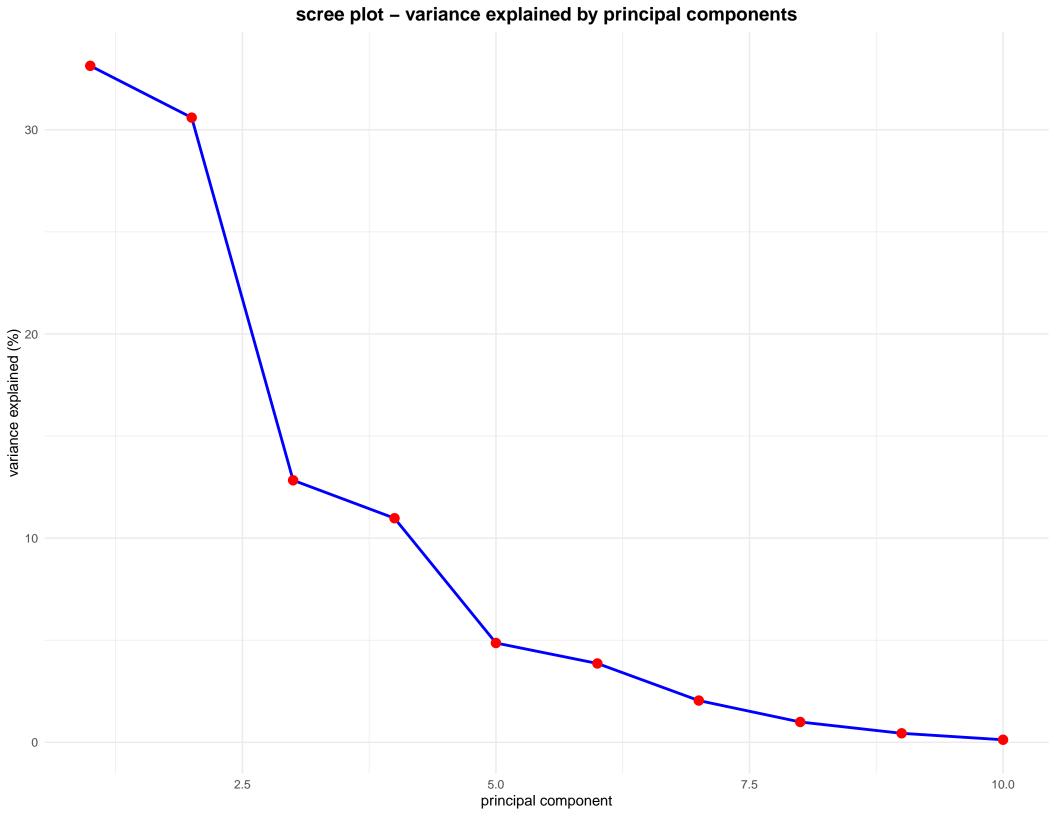
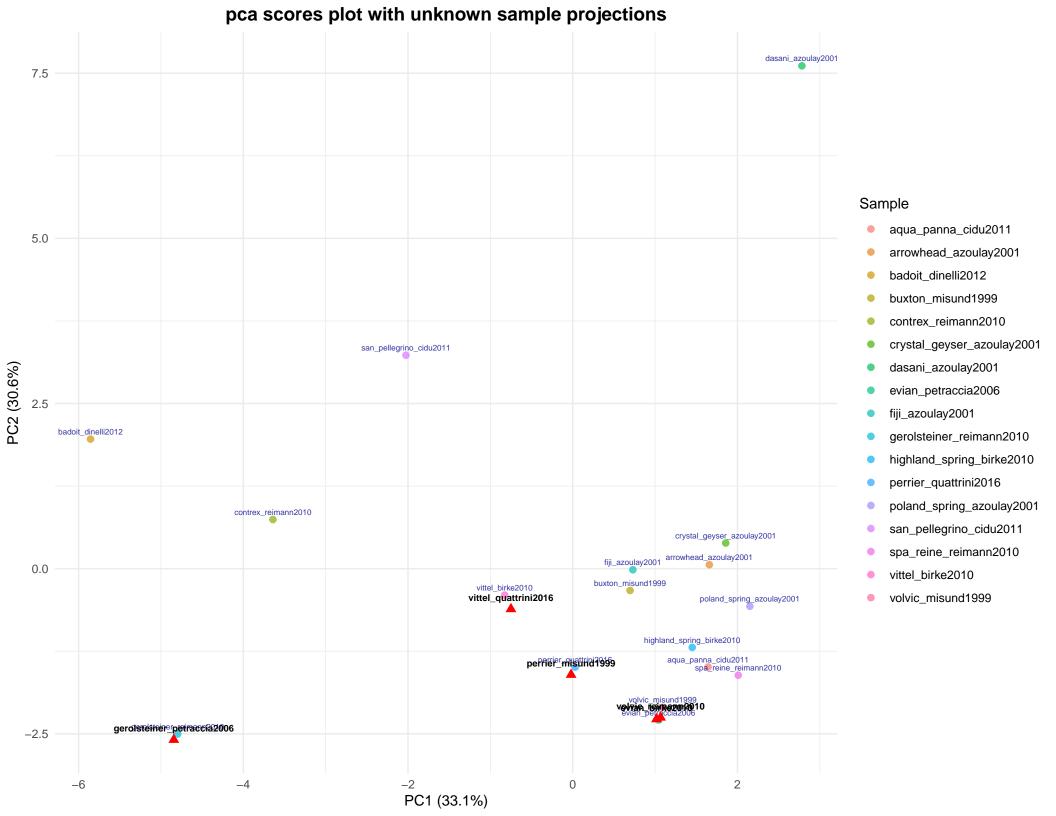
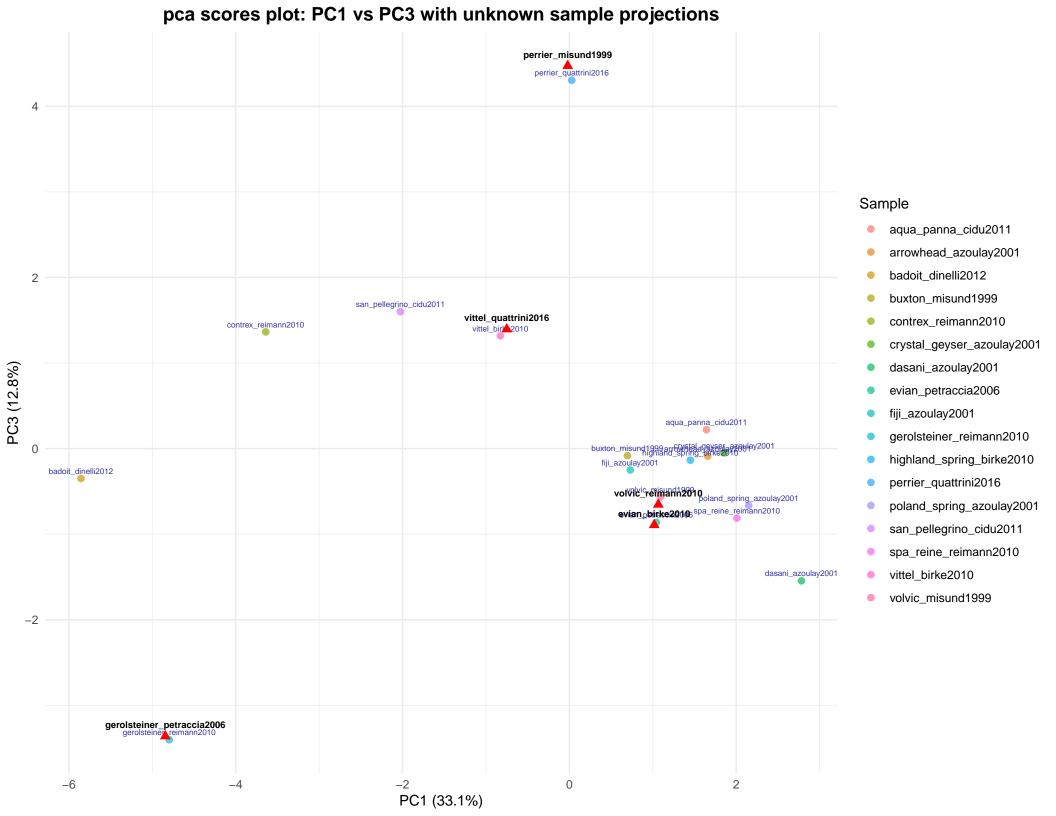
pca sample identification – summary results

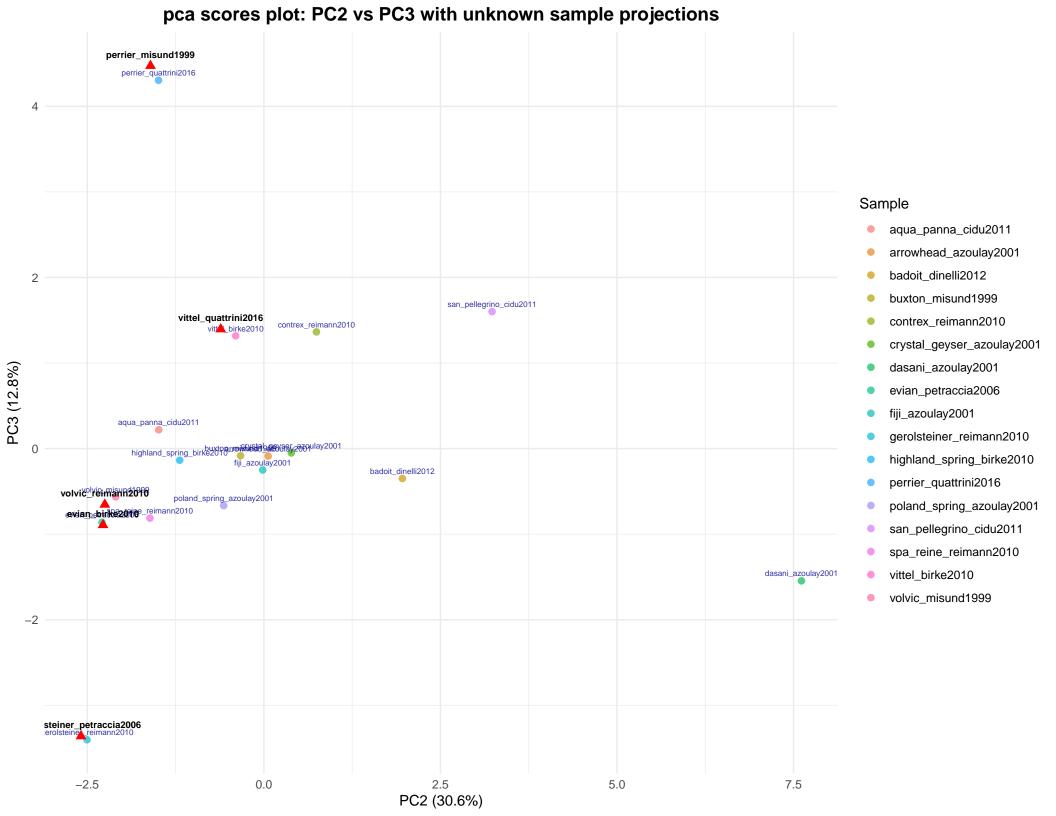
```
Dataset Information:
```

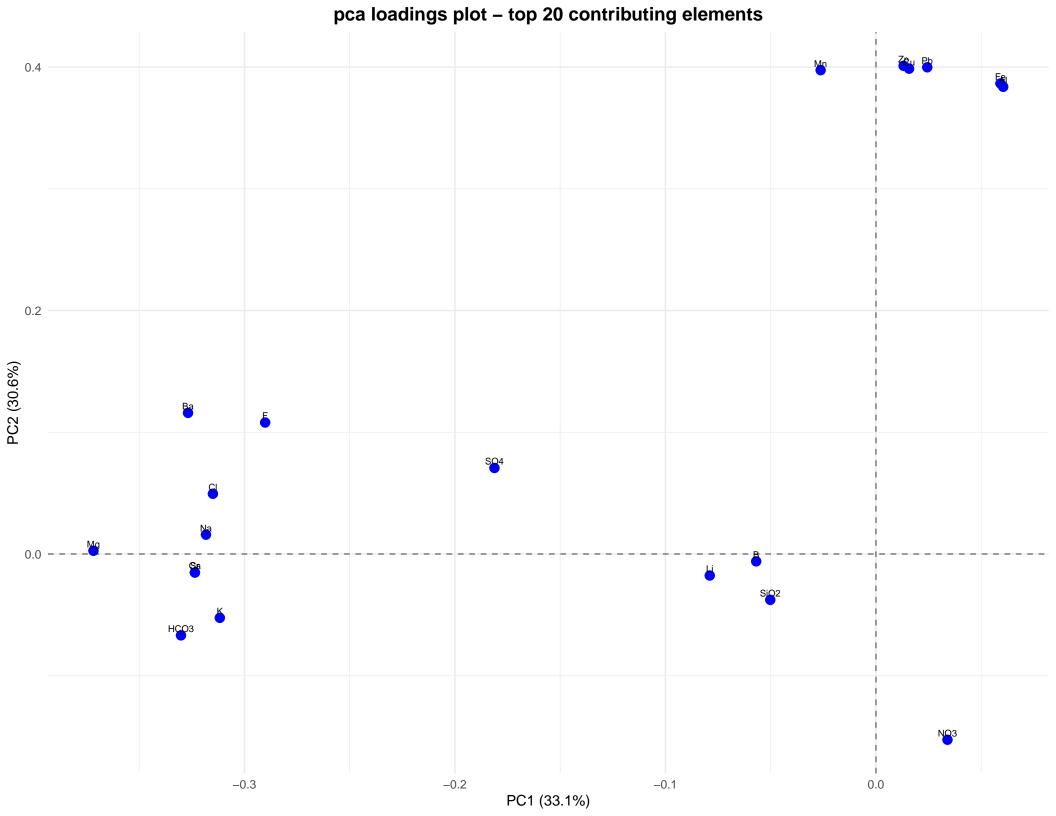
- o Total samples: 22 (5 unknowns + 17 references)
- o Elements analyzed: 20 (0 excluded for zero variance)
- o PC1 variance: 33.13%
- o PC2 variance: 30.6%
- o Cumulative PC1+PC2: 63.73%

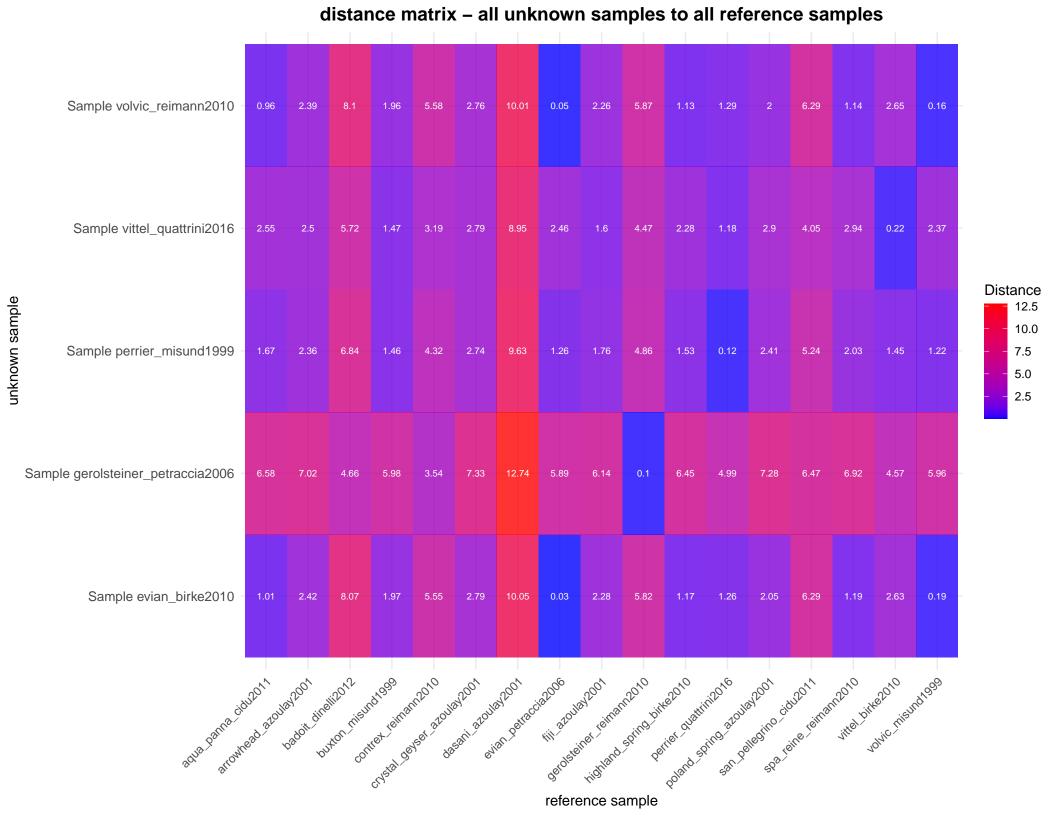


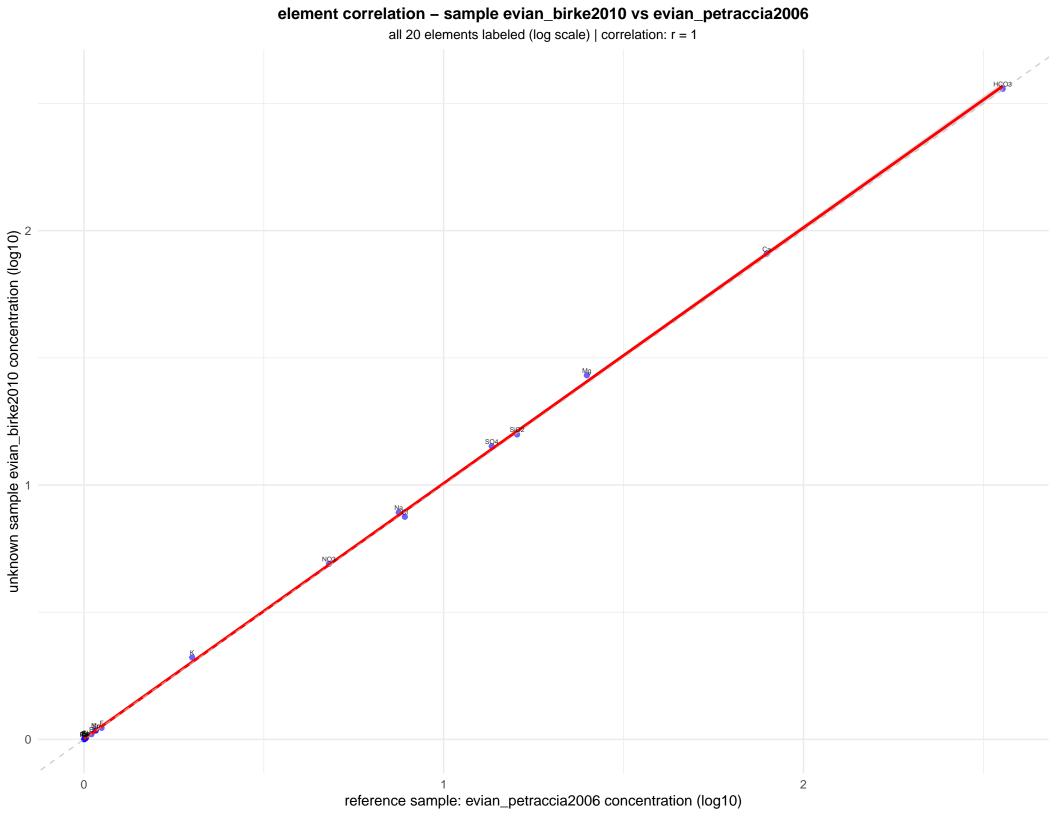








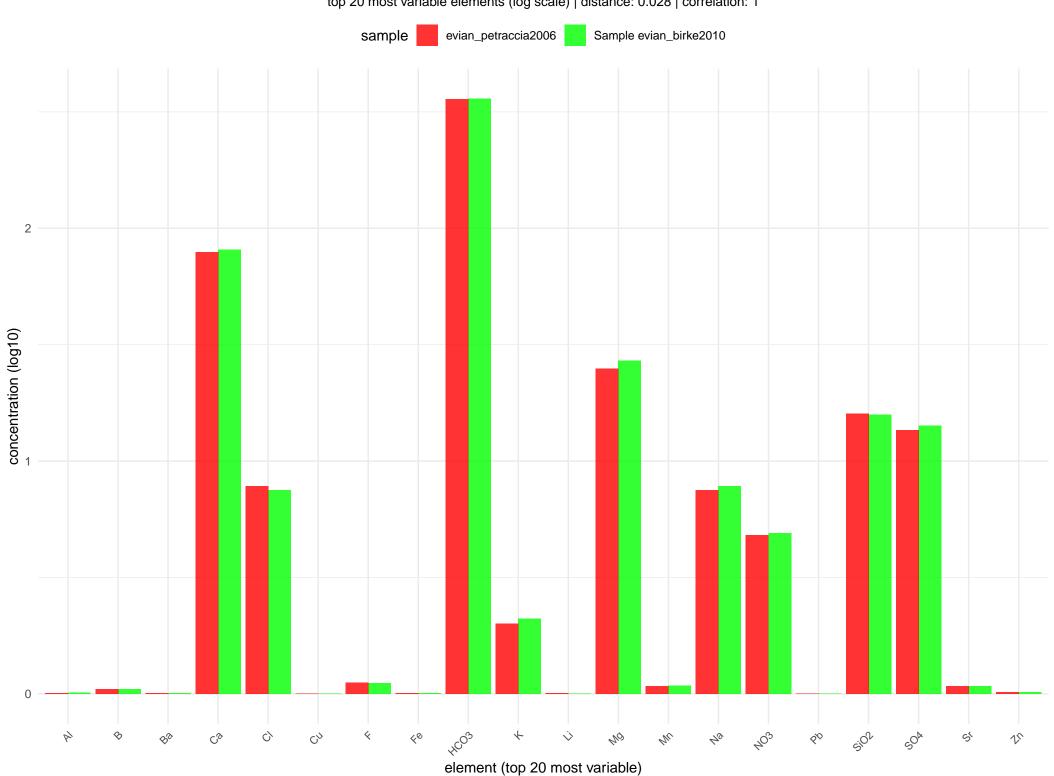


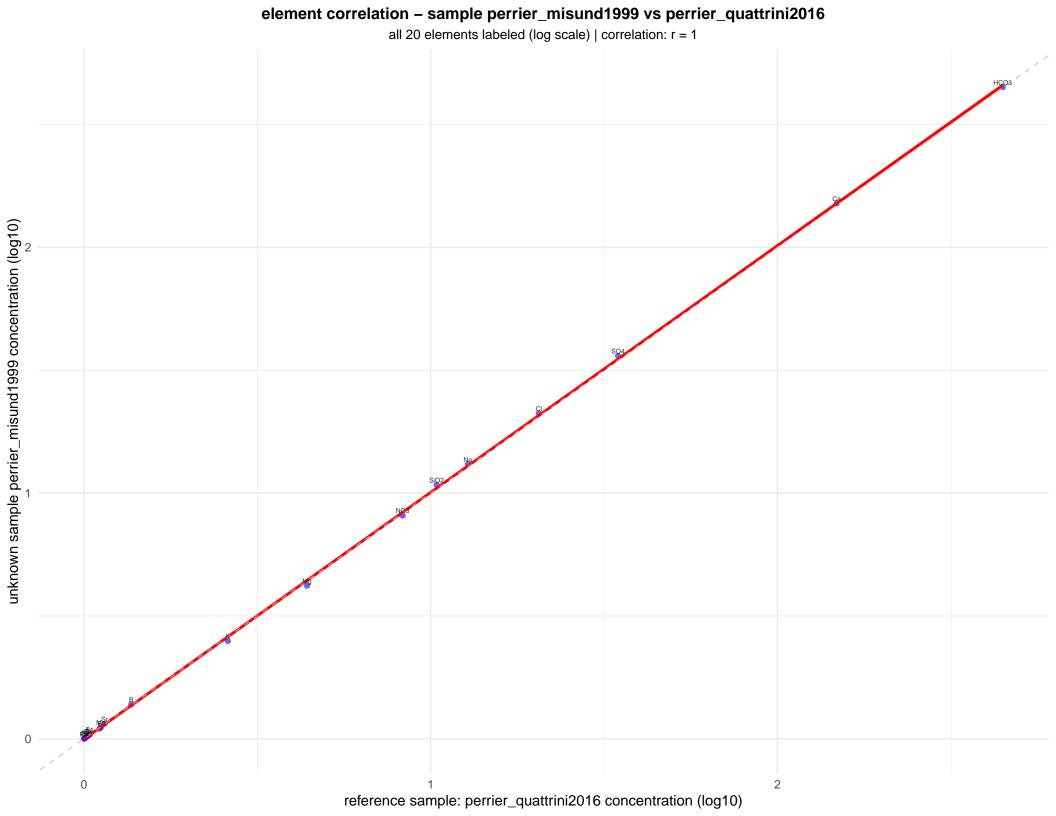


distance ranking - sample evian_birke2010 to all reference samples closest match: evian_petraccia2006 | distance: 0.028 10.0 7.5 distance in pca space 5.0 2.5 0.0 nighted sping tukelon spa jeine jeinamadno gerdsteiner reinamad 10 san Jallegino cidudon poland spind acquiayaon aystal sayset atulayador Derief Quattini2016 buxon nisundago arounteed atolian 2001 context reinangono baddi dinali2012 atian Pattacia 2006 Volvic Internal 1998 adua Pama cidu2011 vited bithe 2010 dasani adulay don iii akullaydoo reference sample

element profile comparison - sample evian_birke2010 vs evian_petraccia2006

top 20 most variable elements (log scale) | distance: 0.028 | correlation: 1

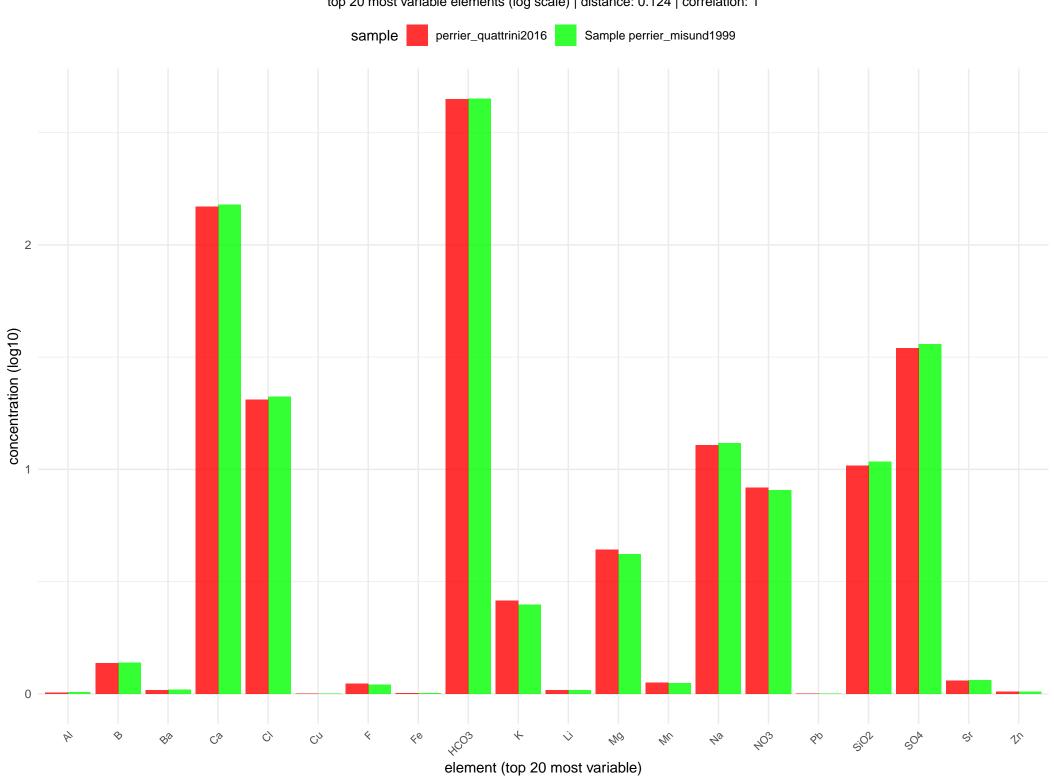




distance ranking - sample perrier_misund1999 to all reference samples closest match: perrier_quattrini2016 | distance: 0.124 10.0 7.5 distance in pca space 5.0 2.5 0.0 nighted spired buke2010 derolate in et la inamido 10 volve hielad 1998 spa teina teinantiono san Jallegino cidulo 1 baddit dinaliko 12 Deriver Authorized to evien Detaciazoos button misural 1998 Poland spined atolian 2001 overal general acquired por context reinangono vited birke2010 adua Rama cidu2011 atomead atoliay 2001 desari acular Con iii alahaylaa reference sample

element profile comparison - sample perrier_misund1999 vs perrier_quattrini2016

top 20 most variable elements (log scale) | distance: 0.124 | correlation: 1

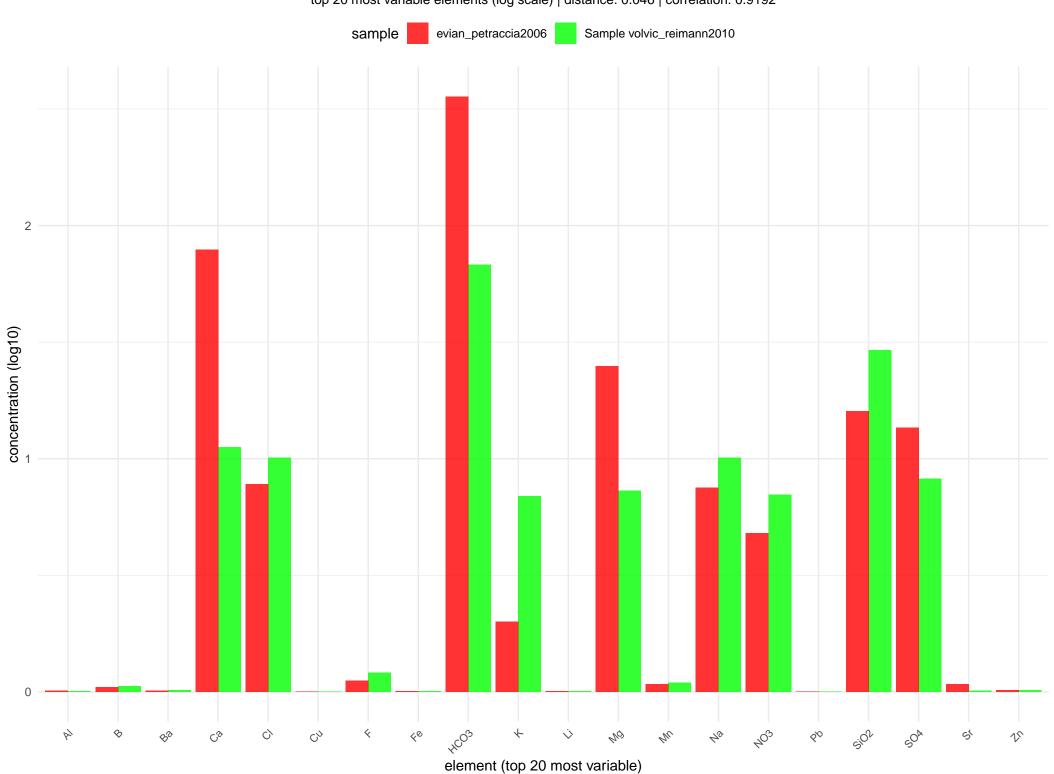


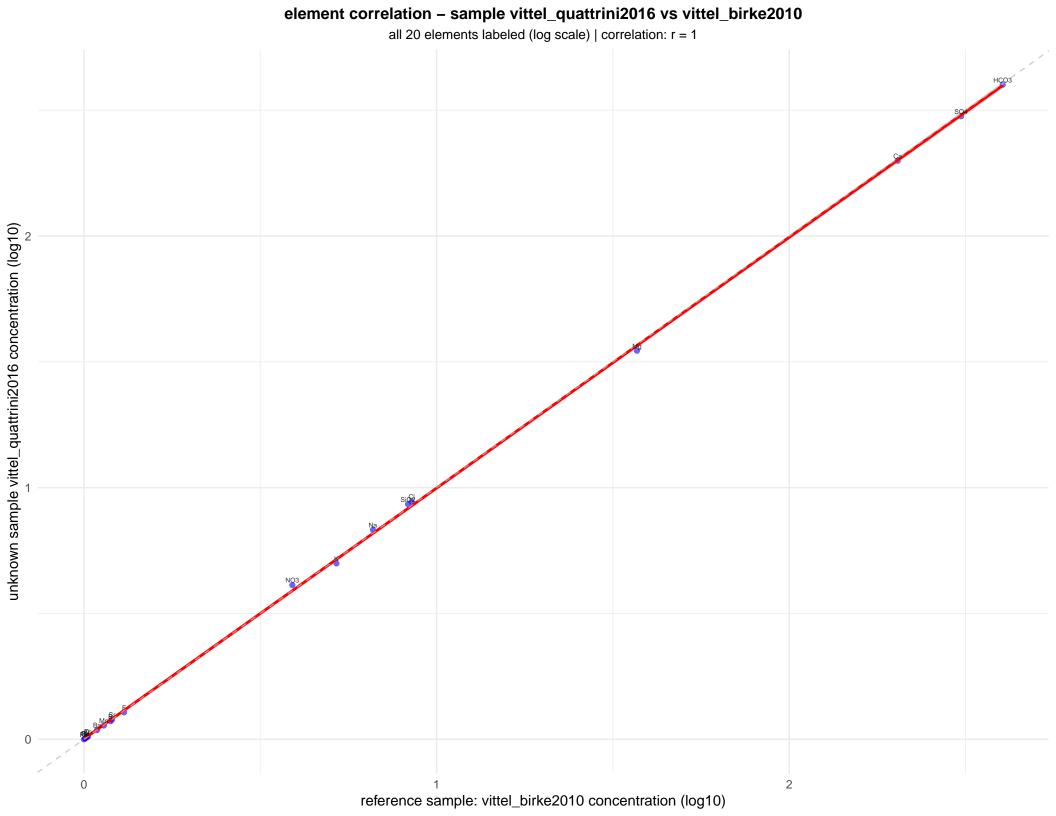
element correlation - sample volvic_reimann2010 vs evian_petraccia2006 all 20 elements labeled (log scale) | correlation: r = 0.9192 2.0 unknown sample volvic_reimann2010 concentration (log10) Ca NO3 0.0 reference sample: evian_petraccia2006 concentration (log10)

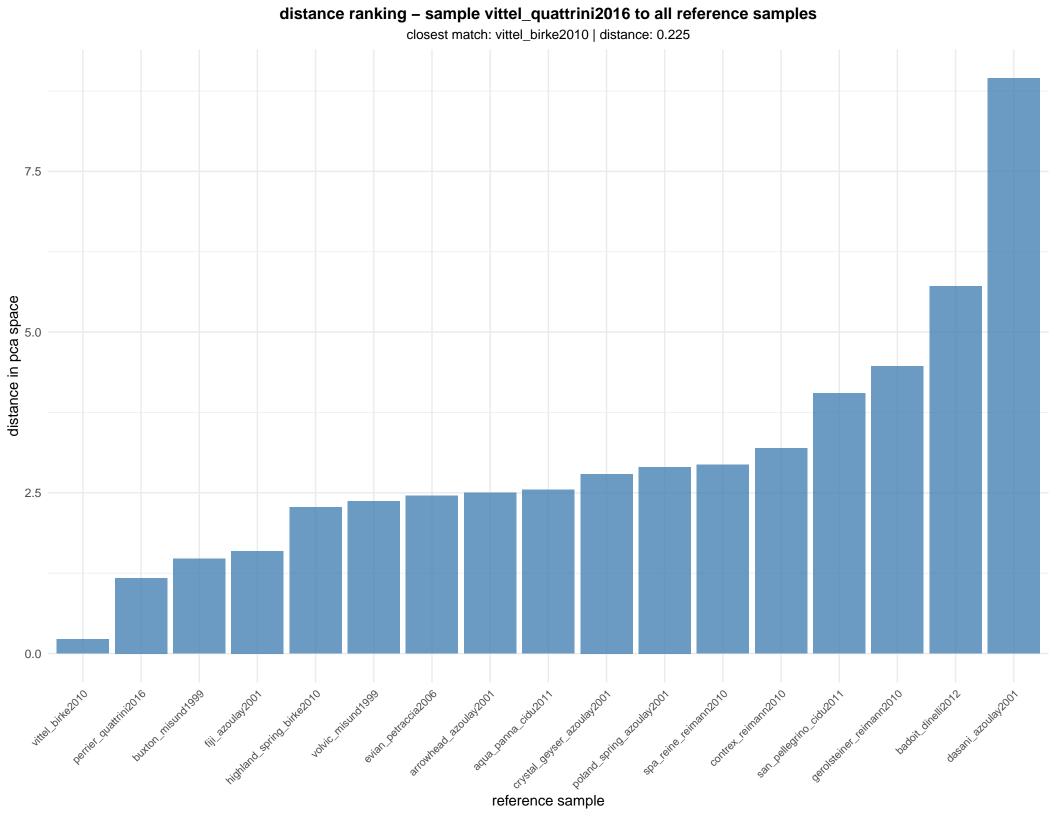
distance ranking - sample volvic_reimann2010 to all reference samples closest match: evian_petraccia2006 | distance: 0.046 10.0 7.5 distance in pca space 5.0 2.5 0.0 nighted sping tukelon spa jeine jeinamadno geodeteiner teinan 2010 poland spind acquiayaon aystal sayset atulayador san Jallegino cidulo 1 adua Jama didu2011 Derief Quattini2016 buxon nisundago arounteed atolian 2001 context reinangono baddi dinali2012 volve riend 1998 vited bithe 2010 dasani adulay don iii adulahado reference sample

element profile comparison - sample volvic_reimann2010 vs evian_petraccia2006

top 20 most variable elements (log scale) | distance: 0.046 | correlation: 0.9192

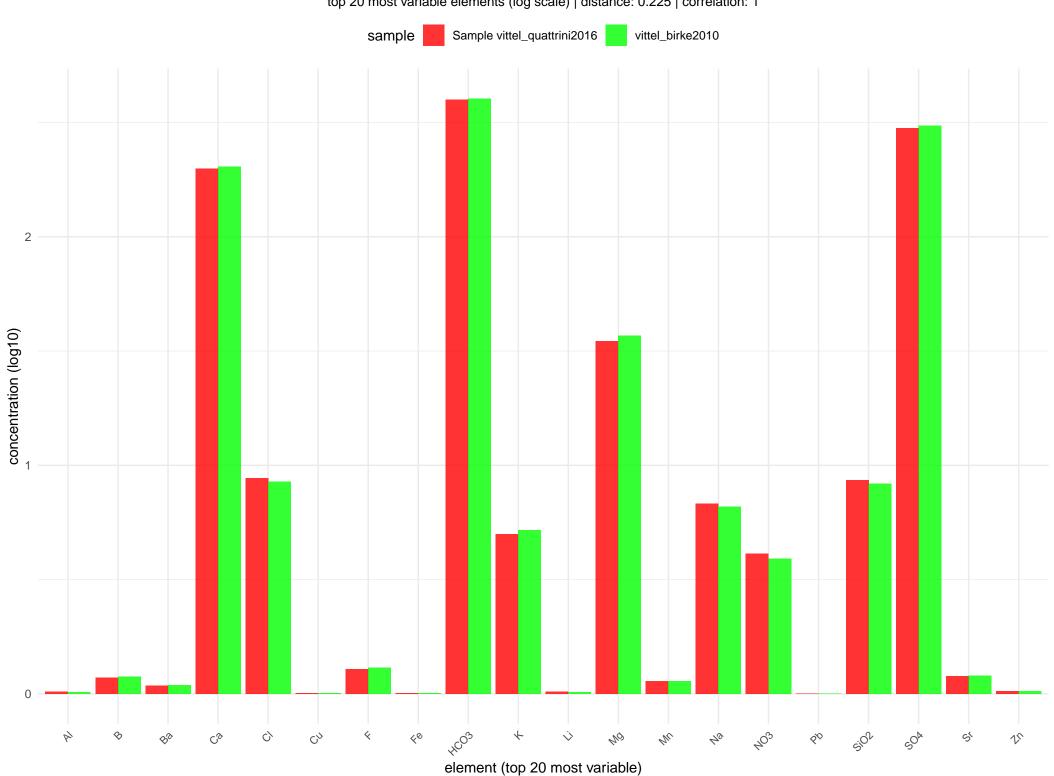


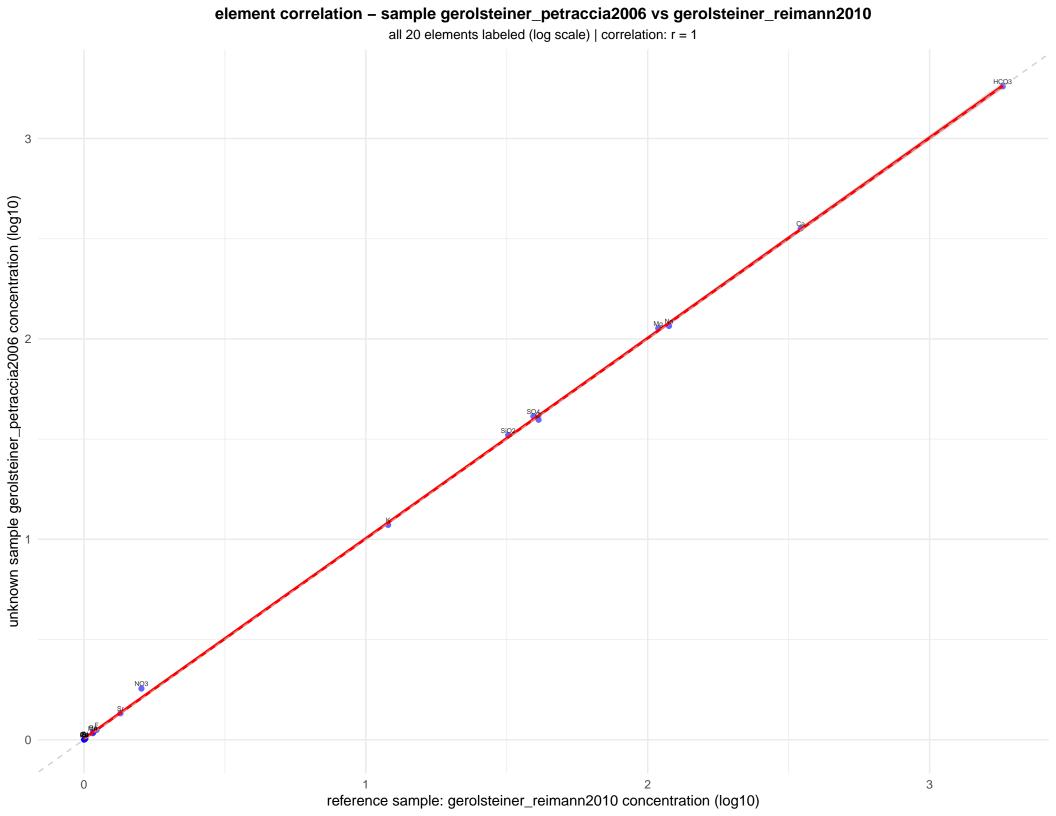


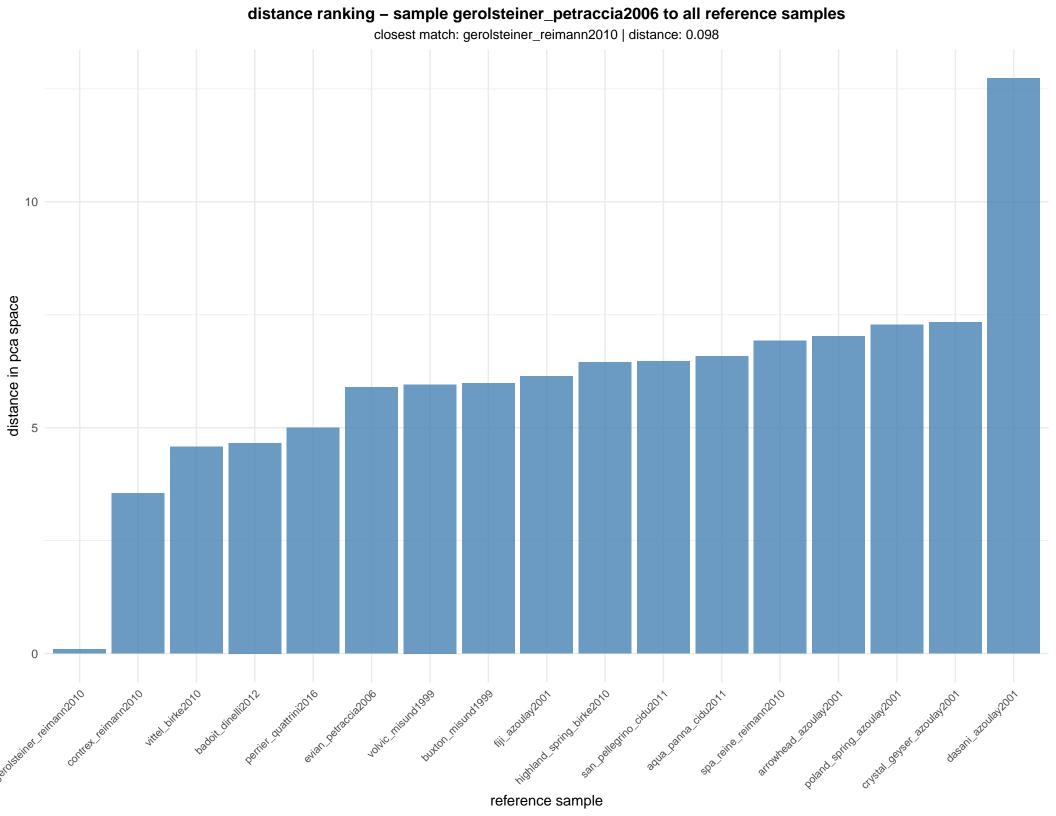


element profile comparison - sample vittel_quattrini2016 vs vittel_birke2010

top 20 most variable elements (log scale) | distance: 0.225 | correlation: 1







element profile comparison - sample gerolsteiner_petraccia2006 vs gerolsteiner_reimann2010

top 20 most variable elements (log scale) | distance: 0.098 | correlation: 1

