Spatial assignment of test sample

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Input

Website Identifier:

Isotope values of test sample

Table 1: Isotope values of test sample

13C/12C	15N/14N	18O/16O	$2\mathrm{H}/1\mathrm{H}$	34S/32S
-16.6	7.2	21.6	-36.9	4.4

Output

Model

Map of best fitted reference sample



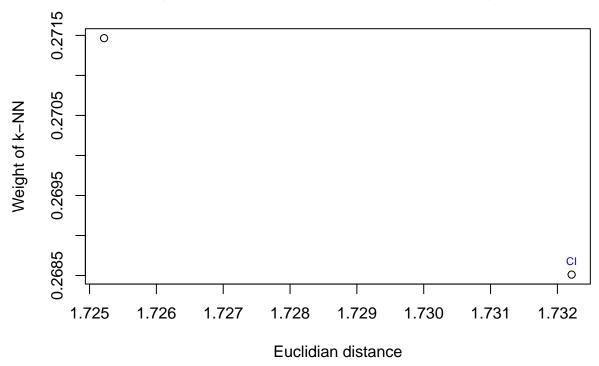
Best fitted reference sample:

Site: Ivory CoastCountry: CI

Region: West AfricaCITES: Appendix ILat: 7.539989

• Lon: -5.54708

Assignment of test sample to nearest neighbours



Best fitted reference entries

Table 2: Details of best fitted reference entry (row 1) and other fitted entries within best classifier

lon	lat	location	13C/12C	15N/14N	18O/16O	2H/1H	34S/32S
-5.55	7.54	Ivory Coast	-17.4	7	20.2	-29.8	9.1
3.00	9.00	Ivory Coast	-17.2	7	20.8	-28.5	9.4

Country of prediction: CI

Testing robustness of assignment: Wilcoxon signed rank test

If p-value > 0.05, the test concludes that the isotope signature of the test sample is similar to the respective nearest neighbour reference sample.

P-values for the k nearest neighbours in Wilcoxon Test

"0.001338, 0.000007"

Goodness of fit of test sample:

- good fit: if p > 0.05 for at least two tested nearest neighbour reference samples;
- moderate fit: if p > 0.05 for at least one tested nearest neighbour reference samples;
- uncertain: if p > 0.05 for none of the tested nearest neighbour reference samples.

Assumption: At least two nearest reference samples are available.

Overall goodness of fit of test sample: " $\mathbf{uncertain}$ "