Spatial assignment of test sample

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Input

Website Identifier: 005p562-31

Isotope values of test sample

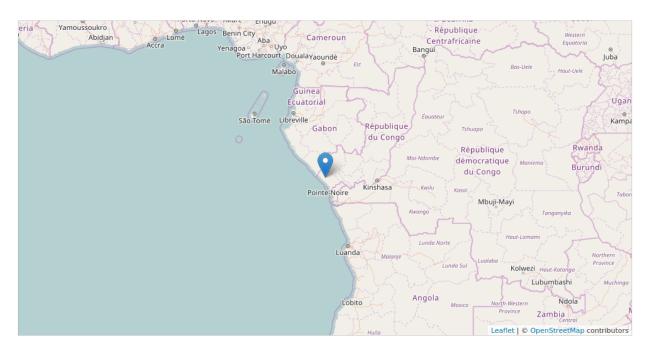
Table 1: Isotope values of test sample

$\overline{13\mathrm{C}/12\mathrm{C}}$	$15\mathrm{N}/14\mathrm{N}$	18O/16O	$2\mathrm{H}/1\mathrm{H}$	34S/32S
-25.4	10.4	13.9	-51.3	12.4

Output

Model

Map of best fitted reference sample



Best fitted reference sample:

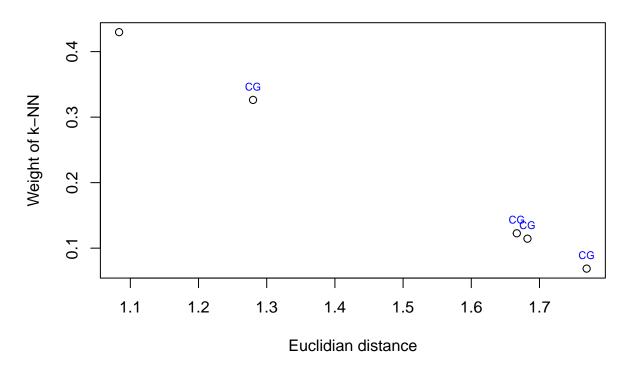
• Site: Congo, Shot in Southern Congo, 50km from Pointe Noire

• Country: CG

Region: Central AfricaCITES: Appendix I

Lat: -4.13Lon: 11.64

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	$2\mathrm{H}/1\mathrm{H}$	34S/32S
11.64	-4.13	Congo, Shot in Southern Congo, 50km from	-25.0	8.5	14.7	-49.4	11.9
11.27	-3.78	Congo, Shot in Southern Congo, on the At	-24.7	11.6	15.8	-48.1	11.0
20.96	-1.44	Congo	-23.7	9.2	13.6	-62.2	9.8
12.79	-3.01	Congo, Litsandou village, 8km southeast	-23.5	10.2	13.3	-64.6	10.8
13.54	-2.82	Congo, Shot in Central Congo near Sibiti	-24.1	7.2	13.5	-52.2	12.8

Country of prediction: CG

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

[&]quot;1.000, 0.234, 0.102, 0.051, 0.010"

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: "good fit"