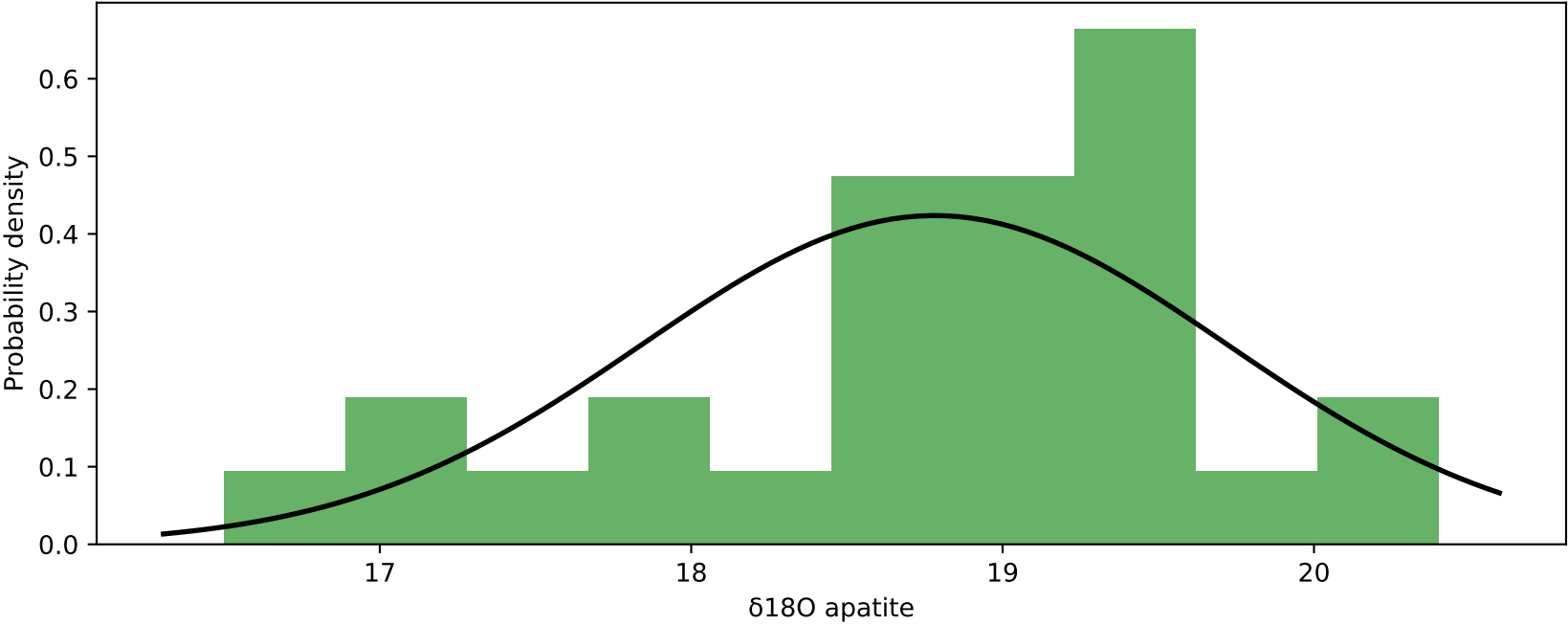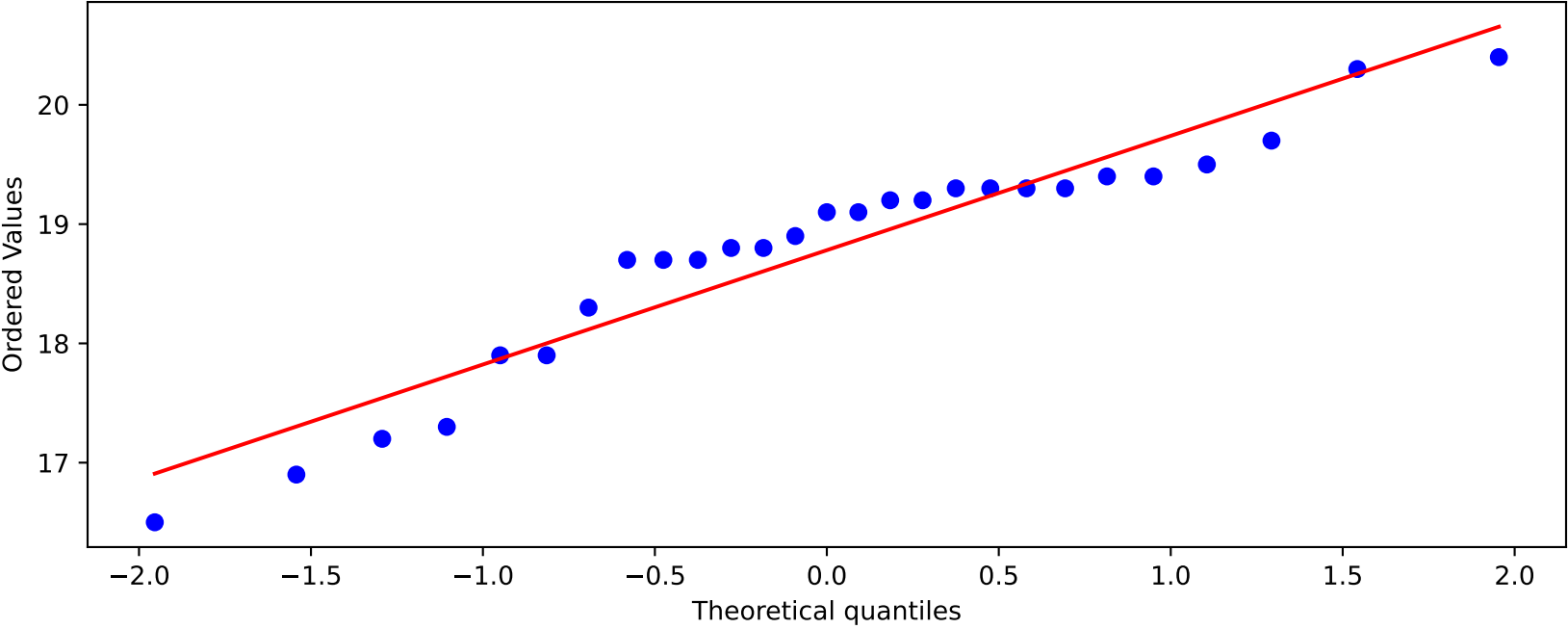δO18 apatite Fitted to Normal lax (mu = 18.78, std = 0.94)

Probability Plot of the samples

SUMMARY

 BASIC STATISTICS

Number of samples: 27 Mean: 18.781 Variance: 0.921

Skew: -0.758 test statistics z-score: -1.791 p-value: 0.073
        H0 (skew from a normal distrib.) cannot be rejected
        The data are highly skewed !!

Kurtosis 0.662 test: z-score: 0.508 p-value: 0.073
        H0 (normal distrib.) cannot be rejected
        The distribution is moderately peeked !!

 NORMALITY TESTS
   Shapiro-Wilk   statistics: 0.919 p-value: 0.038 H0 (normal distrib.) rejected
   Anderson-Darling   statistics: 0.994 critical value α: 0.707 H0 (normal distrib.) rejected
      The sample is almost certainly _not_ issued from a Normal distributed population

 RISK ESTIMATION (Monte-Carlo diagenesis in-silico 280000 iterations), sample count: 27

Mean and Std.Dev. estimated by the bootstrap method
There is a 49.054+/-0.110 % risk of normality of δ18O data by chance for a 27 sample count.

Computed with ApaOxIRA C. Lécuyer & JP. Flandrois 2023