

**Additional file 6: Figure S1.** *cox1* mismatch distribution pattern for *R. appendiculatus* Haplogroup A in different agro-ecological zones. The x-axis shows the number of pairwise differences between pairs of haplotype sequences and the y-axis shows their frequencies. The observed frequencies are represented by solid histograms and the simulated mismatch distributions expected under demographic expansion (solid black line) and under spatial expansion (dotted black line)