Supplementary Table 5. Percentage of *S. furcifera* individuals assigned to each reference population in 2012 and the mean assignment log-likelihood for individuals from each geographic population to probable source population

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Country | Population | Method1 | Potential source (reference) population | | | | | | | | |
| B1 | B2 | B3 | B4 | V | TH | NE | SA1 | LA |
| Bangladesh | B1 | Assignment2  Exclusion3  -LOG(L)4 | 7.5 (3)  12.5(5)  13.04 | 95(38)  65(26)  22.75 | 65(26)  32.5(13)  **20.63** | 95(38)  85(34)  22.47 | 100(40)  97.5(39)  25.24 | 100(40)  100(40)  24.94 | 100(40)  95(38)  22.11 | 97.5(39)  92.5(27)  23.06 | 77.5(31)  42.5(17)  21.32 |
|  | B2 | Assignment  Exclusion  -LOG(L) | 100(37)  100(37)  24.21 | 5.4(2)  5.4(2)  15.48 | 70.3(26)  45.9(17)  **21.19** | 100(37)  100(37)  26.34 | 100(37)  97.3(36)  23.34 | 100(37)  97.3(36)  24.84 | 100(37)  97.3(36)  22.84 | 97.3(36)  78.4(29)  22.90 | 83.8(31)  62.2(23)  21.94 |
|  | B3 | Assignment  Exclusion  -LOG(L) | 100(41)  100(41)  25.88 | 95.1(40)  82.9(34)  23.86 | 7.3(3)  7.3(3)  17.80 | 95.1(39)  80.5(33)  22.73 | 97.6(40)  95.1(39)  24.18 | 100(41)  100(41)  25.18 | 100(41)  100(41)  22.90 | 92.7(38)  85.4(35)  22.43 | 80.5(33)  31.8(13)  **21.48** |
|  | B4 | Assignment  Exclusion  -LOG(L) | 100(39)  100(39)  24.40 | 100(39)  94.9(37)  26.73 | 76.9(30)  41.7(19)  **20.96** | 5.1(2)  7.7(3)  16.08 | 100(39)  100(39)  26.66 | 100(39)  100(39)  27.74 | 100(39)  100(39)  23.46 | 100(39)  94.9(37)  24.86 | 79.5(31)  41(16)  21.04 |
| Vietnam | V | Assignment  Exclusion  -LOG(L) | 100(40)  100(40)  26.61 | 92.5(37)  60(24)  20.07 | 65(26)  35(14)  19.70 | 100(40)  95(38)  24.50 | 5(2)  7.5(3)  12.99 | 100(40)  100(40)  27.31 | 92.5(37)  75(30)  **18.77** | 70(28)  50(20)  20.00 | 40(16)  17.5(7)  19.08 |
| Thailand | TH | Assignment  Exclusion  -LOG(L) | 100(40)  100(40)  26.78 | 100(40)  92.5(37)  22.94 | 80(32)  42.5(17)  21.41 | 100(40)  97.5(39)  25.23 | 100(40)  100(40)  27.72 | 5(2)  7.5(3)  14.16 | 100(40)  100(40)  23.52 | 70(28)  47.5(19)  **19.76** | 100(40)  97.5(39)  25.67 |
| Nepal | NE | Assignment  Exclusion  -LOG(L) | 100(39)  100(39)  22.45 | 87.2(34)  61.5(24)  21.38 | 35.9(14)  12.8(5)  18.77 | 84.6(33)  56.4(22)  20.38 | 92.3(36)  76.9(30)  20.63 | 100(39)  97.4(38)  24.04 | 5.1(2)  12.8(5)  13.39 | 71.8(28)  48.7(19)  19.45 | 35.9(14)  15.4(6)  **18.02** |
| Korea | SA1 | Assignment  Exclusion  -LOG(L) | 100(40)  100(40)  26.71 | 100(40)  92.5(37)  24.19 | 82.5(33)  52.5(21)  **21.19** | 100(40)  100(40)  24.12 | 100(40)  95(38)  23.29 | 100(40)  95(38)  23.04 | 97.5(39)  95(38)  22.48 | 7.5(3)  7.5(3)  16.28 | 95(38)  62.5(25)  23.00 |
| Laos | LA | Assignment  Exclusion  -LOG(L) | 100(39)  100(39)  24.57 | 87.2(34)  84.6(33)  22.65 | 51.3(20)  25.6(10)  **19.75** | 92.3(36)  76.9(30)  22.79 | 100(39)  97.4(38)  22.61 | 100(39)  100(39)  26.29 | 97.4(38)  92.3(36)  20.29 | 87.2(34)  69.2(27)  22.04 | 5.1(2)  5.1(2)  16.32 |

1 The assignment test was conducted using the direct approach without possibility computation (Cornuet *et al*., 1999). Applied the Bayesian statistical approach explained by Rannala & Mountain (1997). The simulation method developed by Paetkau *et al*. (2004) was used in the exclusion test.

2 The number of individuals assigned to the most related population is described in parentheses.

3The number of individuals excluded from the reference population for *a*=0.01 is shown in parenthese.

4 Mean assignment –log likelihood (*L*) value for individuals from a sample population. Bold means the value the most similar and related to the sample population which means the most likely originated population.