Supplementary Table 6. Percentage of *S. furcifera* individuals assigned to each reference population in 2013 and the mean assignment log-likelihood for individuals from each geographic population to possible source population.

|  |  |  |  |
| --- | --- | --- | --- |
| Country | Population | Method1 | Potential source (reference) population |
| JC | TA | BA | JS | GR | JD | SA2 | WD | CW | KP | NYJ | CG | CN | GS | MY | B5 | B6 | CH | NE | TH |
| Korea | JC | Assignment2Exclusion3-LOG(L)4 | 7.5(3)10(4)13.13 | 60(24)32.5(13)21.26 | 65(26)42.5(17)18.52 | 92.5(37)82.5(33)19.71 | 97.5(39)92.5(37)22.11 | 65(26)42.5(17) 17.66 | 77.5(31)50(20)19.59 | 95(38)85(34)20.78 | 15(6)5(2) **16.40** | 75(30)55(22)19.79 | 100(40)97.5(39) 23.29 | 72.5(29)65(26)18.70 | 92.5(37)77.5(31) 242.56 | 95(38)32(80)20.73 | 90(36) 32(80)21.49 | 82.5(33)47.5(19) 19.16 | 82.5(33)70(28)20.56 | 87.5(35)82.5(33) 17.90 | 47.5(19)25(10) 17.85 | 77.5(31)52.5(21) 19.31 |
|  | TA | AssignmentExclusion-LOG(L) | 100(39)100(39)25.57 | 5.1(2)10.3(4)18.74 | 100(39)84.6(33) 24.25 | 100(39)100(39)26.38 | 100(39)97.4(38) 26.47 | 100(39)100(39) 25.04 | 84.6(33)76.9(30) 22.36 | 100(39)39(100) 27.09 | 92.3(36)74.4(29) 24.31 | 94.9(37)84.6(33) 23.36 | 100(39)97.4(38) 26.41 | 97.4(38)92.3(36)23.47 | 94.9(37)69.2(27) **22.19** | 97.4(38) 97.4(38) 26.43 | 100(39) 100(39) 24.99 | 100(39) 92.3(36) 26.26 | 92.3(36)74.5(29) 22.45 | 100(39) 100(39) 28.01 | 94.9(37)92.3(36) 24.65 | 100(39) 100(39)25.41 |
|  | BA | AssignmentExclusion-LOG(L) | 97.4(37) 100(38) 20.69 | 81.6(31)71.1(27) 22.56 | 26.3(10) 26.3(10) 16.18 | 100(38)81.6(31) 26.26 | 86.8(33)84.2(32) 22.46 | 100(38) 100(38) 23.65 | 94.7(36) 100(38) 21.46 | 100(38)71.1(27) 25.81 | 86.8(33)28.9(11) 22.41 | 76.3(29)92.1(35)19.52 | 100(38)60.5(23) 26.74 | 73.7(28)5.3(2)**18.81** | 92.1(35)100(38) 22.75 | 100(38)73.7(28) 22.31 | 97.4(37)100(38) 22.34 | 97.4(37)65.8(24)22.96 | 78.9(30) 100(38) 20.89 | 100(38)63.2(24) 23.66 | 100(38)52.6(20) 22.78 | 100(38) 100(38) 23.02 |
|  | JS | AssignmentExclusion-LOG(L) | 90(36)82.5(33) 20.00 | 80(32)57.5(23) 23.18 | 100(40)97.5(39) 25.38 | 7.5(3)12.5(5)13.77 | 95(38)90(36) 22.67 | 52.5(21)37.5(15) **16.87** | 77.5(31) 57.5(23) 21.03 | 80(32)62.5(25) 17.42 | 72.5(29)30(12) 20.54 | 97.5(39)95(38) 24.10 | 92.5(37)72.5(29) 20.25 | 100(40) 100(40) 27.23 | 92.5(37)60(24) 21.17 | 100(40) 97.5(39)22.45 | 77.5(31)70(28) 19.91 | 85(34) 62.5(25)20.54 | 100(40) 100(40) 25.64 | 95(38) 92.5(37)21.25 | 50(20) 32.5(13)18.55 | 82.5(33) 65(26)19.98 |
|  | GR | AssignmentExclusion-LOG(L) | 100(40) 92.5(27)23.61 | 97.5(39) 87.5(35)25.97 | 77.5(31) 52.5(21)21.22 | 97.5(39) 95(38)23.04 | 10(4) 15(6)15.12 | 100(40) 92.5(37)23.72 | 87.5(35) 80(32)23.04 | 97.5(39) 97.5(39) 23.23 | 95(38) 85(34)25.95 | 57.5(23) 35(14)**17.61** | 100(40) 100(40) 26.64 | 97.5(39)95(38) 23.43 | 100(40) 97.5(39)24.37 | 100(40) 97.5(39) 26.68 | 97.5(39) 97.5(39) 23.12 | 80(32) 67.5(27) 20.36 | 95(38)87.5(35) 23.83 | 100(40) 100(40) 25.50 | 95(38)87.5(35) 23.82 | 100(40) 95(38)23.88 |
|  | JD | AssignmentExclusion-LOG(L) | 85(34)67.5(27) 18.57 | 79(28)52.5(21) 22.06 | 97.5(39) 87.5(35)22.66 | 72.5(29) 52.5(21)17.44 | 97.5(39) 97.5(39)24.15 | 5(2) 10(4)14.68 | 70(28) 37.5(15)19.20 | 80(32) 50(20)**17.37** | 45(18) 10(4)18.92 | 95(38) 90(36)22.76 | 92.5(37) 90(36)22.62 | 100(40)37.5(39) 24.01 | 97.5(39) 77.5(31)22.46 | 97.5(39) 90(32)20.84 | 97.5(39) 87.5(35)21.92 | 95(38) 62.5(25)20.67 | 100(40) 97.5(39) 23.60 | 100(40)92.5(37) 21.41 | 62.5(25) 42.5(17)19.32 | 80(32) 50(20)18.89 |
|  | SA2 | AssignmentExclusion-LOG(L) | 97.5(39)92.5(37) 21.74 | 27.5(11) 17.5(7)19.07 | 92.5(37) 92.5(37) 22.21 | 100(40) 100(40) 21.16 | 100(40) 100(40) 23.96 | 75(30)65(26)**18.93** | 7.5(3)5(2)15.06 | 100(40) 97.5(39)22.08 | 50(20) 22.5(9)19.23 | 87.5(35) 77.5(31)21.10 | 100(40) 95(38)24.30 | 97.5(39)92.5(37)21.91 | 97.5(39)85(34) 23.45 | 97.5(39) 97.5(39) 23.08 | 97.5(39) 97.5(39) 24.44 | 100(40) 97.5(39)24.84 | 95(38)72.5(29) 21.84 | 100(40) 100(40) 25.67 | 92.5(37) 82.5(33)22.49 | 92.5(37) 77.5(31)21.09 |
|  | WD | AssignmentExclusion-LOG(L) | 95(38)80(32)19.95 | 90(36) 70(28)23.42 | 100(40) 97.5(39)23.98 | 62.5(25) 30(12)16.37 | 100(40) 92.5(37)22.19 | 32.5(13) 27.5(11)**15.62** | 75(30) 60(24)20.41 | 17.5(7) 17.5(7)13.37 | 70(28) 45(18)21.67 | 92.5(37) 75(30)21.35 | 92.5(37) 82.5(33)20.59 | 100(40)100(40) 26.81 | 95(38)65(26) 21.61 | 100(40) 90(36)21.39 | 82.5(33) 60(24)19.86 | 90(36) 62.5(25)20.96 | 100(40) 97.5(39)25.43 | 100(40) 100(40)22.69 | 87.5(35) 60(24)20.80 | 72.5(29) 52.5(21)19.54 |
|  | CW | AssignmentExclusion-LOG(L) | 70(28)50(20)**17.47** | 40(16) 30(12)20.37 | 85(34) 70(28)21.45 | 97.5(39) 87.5(35)20.79 | 100(40) 95(38)24.98 | 72.5(29) 60(24)18.94 | 57.5(23) 45(18)19.41 | 100(40) 97.5(39)22.81 | 7.5(3) 7.5(3)15.32 | 90(36) 77.5(31)22.54 | 100(40) 100(40) 24.73 | 80(32)70(28)20.77 | 100(40) 100(40) 25.95 | 97.5(39)95(38) 23.51 | 100(40) 100(40)26.28 | 92.5(37) 85(34)23.38 | 97.5(39) 80(32)22.82 | 95(38) 95(38)20.76 | 77.5(31) 60(24)20.51 | 82.5(33) 57.5(23)20.05 |
|  | KP | AssignmentExclusion-LOG(L) | 95(38)95(38)22.33 | 80(32) 55(22)22.83 | 62.5(25) 37.5(15)19.00 | 100(40) 100(40) 25.93 | 62.5(25) 37.5(15)**18.63** | 100(40) 97.5(39)24.15 | 90(36) 77.5(31)21.84 | 100(40) 100(40) 23.66 | 95(38) 80(32)24.54 | 10(4) 12.5(5)15.92 | 100(40) 100(40) 25.89 | 87.5(35) 72.5(29)20.28 | 92.5(37) 87.5(35)22.80 | 100(40)97.5(39)25.77 | 100(40) 95(38)22.77 | 95(38) 70(28)20.88 | 90(36) 67.5(27)21.31 | 100(40) 100(40) 25.22 | 100(40) 95(38)24.25 | 100(40) 97.5(39)23.93 |
|  | NYJ | AssignmentExclusion-LOG(L) | 100(40) 92.5(37)23.28 | 82.5(33) 55(22)22.76 | 100(40) 100(40) 25.91 | 80(32) 67.5(27)**18.71** | 100(40) 100(40)26.43 | 92.5(37) 67.5(27) 20.41 | 95(38)62.5(25)23.48 | 97.5(39) 90(36)20.63 | 87.5(35) 65(26)23.24 | 100(40) 100(40) 26.55 | 7.5(3) 10(4)13.78 | 100(40) 97.5(39)26.86 | 85(34) 57.5(23)20.65 | 100(40)85(34) 21.01 | 67.5(27) 52.5(21)18.78 | 100(40) 85(34)23.70 | 100(40) 95(38)23.91 | 100(40) 100(40)25.22 | 100(40) 90(36)22.96 | 85(34) 62.5(25)20.20 |
|  | CG | AssignmentExclusion-LOG(L) | 87.5(35)80(32)19.28 | 40(16) 25(10)19.74 | 32.5(13) 17.5(7)**16.83** | 100(40) 100(40)26.45 | 97.5(39) 92.5(37)23.48 | 97.5(39) 90(36)22.71 | 75(30) 47.5(19)19.76 | 100(40) 100(40)26.60 | 72.5(29) 35(14)19.66 | 67.5(27) 52.5(21)19.43 | 100(40) 100(40)25.82 | 7.5(3) 12.5(5)14.01 | 100(40) 90(36)24.75 | 100(40) 95(38)23.04 | 100(40) 100(40)24.89 | 100(40)82.5(33) 22.58 | 62.5(25) 52.5(21)19.59 | 100(40) 100(40)21.96 | 90(36) 77.5(31)22.66 | 87.5(35) 65(26)20.76 |
|  | CN | AssignmentExclusion-LOG(L) | 100(40) 100(40) 23.88 | 65(26) 42.5(17)20.93 | 95(38) 72.5(29)22.10 | 100(40) 92.5(37)22.25 | 97.5(39)97.5(39) 24.45 | 100(40) 95(38)22.63 | 95(38) 82.5(33)23.45 | 100(40)100(40) 23.02 | 100(40) 92.5(37)25.59 | 92.5(37) 90(36)22.80 | 97.5(39) 92.5(37)23.32 | 100(40) 97.5(39)25.14 | 5(2)7.5(3)16.17 | 97.5(39) 95(38)23.66 | 62.5(25) 45(18)**18.10** | 95(38) 90(32)22.02 | 90(36) 82.5(33)21.97 | 100(40) 97.5(39)26.20 | 80(32) 57.5(23)20.94 | 100(40) 95(38)22.69 |
|  | GS | AssignmentExclusion-LOG(L) | 75(30)97.5(39) 20.79 | 75(30) 67.5(27)22.24 | 95(38)70(28)20.63 | 100(40) 97.5(39)22.93 | 100(40)100(40) 25.44 | 95(38) 87.5(35)20.46 | 95(38) 65(26)20.51 | 100(40) 100(40)22.11 | 87.5(35) 65(26)21.95 | 100(40) 97.5(39)23.10 | 100(40) 90(36)21.93 | 100(40) 100(40)22.33 | 100(40) 85(34)22.25 | 2.5(1)5(2)12.90 | 95(38) 65(26)19.50 | 87.5(35) .5(23)19.30 | 52.5(21) 27.5(11)**18.07** | 100(40) 97.5(39)22.27 | 65(26) 32.5(13)19.29 | 87.5(35) 57.5(23)18.54 |
|  | MY | AssignmentExclusion-LOG(L) | 97.5(39)96(38) 21.95 | 100(40) 90(36)24.43 | 90(36) 77.5(31)21.94 | 100(40) 85(34)20.26 | 97.5(39) 90(36)24.08 | 97.5(39) 85(34)21.15 | 97.5(39) 85(34)23.40 | 100(40) 97.5(39)20.39 | 100(40) 87.5(35)25.44 | 90(36) 87.5(35)23.37 | 92.5(37) 90(32)21.16 | 100(40) 100(40)26.00 | 50(20) 7.5(3)**17.48** | 95(38) 82.5(33)20.51 | 2.5(1)5(2)15.59 | 92.5(37) 70(28)21.20 | 90(36) 80(32)21.32 | 100(40) 100(40)24.79 | 65(26) 47.5(19)19.38 | 92.5(37) 87.5(35)20.66 |
| Bangladesh | B5 | AssignmentExclusion-LOG(L) | 97.5(39)75(30)19.71 | 87.5(35) 75(30)24.22 | 85(34) 62.5(25)20.07 | 97.5(39) 95(39)21.55 | 87.5(35) 65(26)19.54 | 97.5(39) 90(36)20.64 | 95(3) 90(36)23.17 | 100(40) 100(40)22.44 | 90(36) 72.5(29)23.15 | 82.5(33) 72.5(19)219.12 | 100(40) 100(40)24.09 | 100(40) 100(40)23.01 | 77.5(31) 40(16)19.77 | 97.5(39) 90(32)20.24 | 70(28) 50(20)18.63 | 7.5(3) 7.5(3)13.64 | 80(32) 72.5(29)20.27 | 92.5(37) 87.5(35)19.63 | 40(16) 27.5(11)**17.04** | 92.5(37) 72.5(29)20.48 |
|  | B6 | AssignmentExclusion-LOG(L) | 97.5(39) 95(38)23.31 | 80(32) 62.5(25)22.83 | 90(36) 72.5(29)22.18 | 100(40) 100(40)26.72 | 100(40) 97.5(39)25.1037 | 100(40) 100(40)24.06 | 92.5(37) 80(32)22.37 | 100(40) 100(40)26.23 | 100(40) 82.5(33)25.01 | 90(36) 70(28)22.11 | 100(40) 97.5(39)25.39 | 95(38) 90(36)22.96 | 90(36) 23. 57.5(23)22.00 | 97.5(39) 82.5(33)22.37 | 87.5(35) 70(28)**21.27** | 97.5(39) 77.5(31)22.54 | 7.5(3) 10(4)17.05 | 100(40) 100(40)25.66 | 75(30) 67.5(27)21.37 | 97.5(39) 85(34)22.33 |
| China | CH | AssignmentExclusion-LOG(L) | 87.5 (35) 75(30)**17.72** | 87.5(35) 75(30)23.06 | 92.5(37) 75(30)20.65 | 97.5(39) 85(34)21.44 | 100(40) 95(38)24.02 | 85 (34) 77.5(31)20.04 | 100(40) 87.5(35)22.99 | 100(40) 97.5(39)23.84 | 55(22) 7.5(3)18.70 | 97.5(39) 92.5(37)22.92 | 100(40) 40(100)25.09 | 100(40) 95(38)21.27 | 100(40) 92.5(37)23.84 | 97.5(39) 77.5(31)20.94 | 100(40) 100(40)23.45 | 82.5(33) 57.5(23)18.80 | 100(40) 80(32)22.01 | 0(0)0(0)12.61 | 0(0) 42.5(17)18.63 | 97.5(39) 87.5(35)21.50 |
| Nepal | NE | AssignmentExclusion-LOG(L) | 97.5(39)85(34)20.30 | 85 (34) 75(30)23.58 | 100(40) 100(40)23.52 | 100(40) 92.5(37)20.13 | 100(40) 97.5(39)24.03 | 92.5(37) 85(34)20.61 | 97.5(39) 77.5(31)22.53 | 100(40) 97.5(39)23.00 | 82.5(33) 70(28)22.43 | 97.5(39)97.5(39)24.07 | 100(40) 100(40)24.15 | 100(40) 100(40)25.28 | 85(34) 65(26)20.59 | 95(38) 92.5(37)20.87 | 85(34) 72.5(29)19.15 | 72.5(29) 32.5(13)**18.20** | 95(38) 77.5(31)20.47 | 100(40)100(40)21.95 | 2.5(1) 7.5(3)15.51 | 95(38) 70(28)20.87 |
| Thailand | TH | AssignmentExclusion-LOG(L) | 97.5(39) 90(36)21.65 | 92.5(37) 65(26)23.10 | 97.5(39) 90(36)22.49 | 95(38) 87.5(35)21.27 | 100(40) 97.5(39)24.70 | 80(32) 72.5(29)**19.68** | 92.5(37) 65(26)20.60 | 100(40) 92.5(37)21.54 | 82.5(33) 40(16)21.62 | 95(38) 90(36)22.17 | 100(40) 92.5(37)22.45 | 100(40) 92.5(37)22.61 | 97.5(39) 85(34)22.97 | 95(38) 80(32)20.74 | 97.5(39) 87.5(35)21.49 | 100(40) 87.5(35)22.67 | 92.5(37) 80(32)20.67 | 100(40) 100(40)284.89 | 85(34) 67.5(27)21.07 | 2.5(1) 12.5(5)14.96 |

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.