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| **Table S1A. Measures of inter-specific diversity and divergence. Numbers above the diagonal refer to average number of uncorrected** **nucleotide substitutions per site between populations.**  |
| **Numbers under the diagonal refer to average number of nucleotide substitutions per site between populations (Dxy) with Jukes & Cantor.** |  |  |
|  |  |  |  |  |  |  |  |
|   | *D. barraganae* | *D. hilli* | *D. bilybara* | *D. conspicillatus* | *D. custos* | *D. laevis* | *D. platyurus* |
|   |  |  |  |  |  |  |  |
| *D. barraganae (N=1)* |  \_ | 0.161 | 0.155 | 0.146 | 0.159 | 0.180 | 0.199 |
| *D. hilli (N=1)* | 0.181 |  \_ | 0.136 | 0.177 | 0.150 | 0.148 | 0.190 |
| *D. bilybara (N=60)* | 0.173 | 0.153 | \_  | 0.160 | 0.149 | 0.129 | 0.193 |
| *D. conspicillatus (N=28)* | 0.162 | 0.199 | 0.179 | \_  | 0.168 | 0.173 | 0.188 |
| *D. custos (N=7)* | 0.177 | 0.166 | 0.164 | 0.188 | \_  | 0.144 | 0.183 |
| *D. laevis (N=62)* | 0.206 | 0.163 | 0.149 | 0.198 | 0.158 | \_ | 0.200 |
| *D. platyurus (N=11)* | 0.230 | 0.218 | 0.221 | 0.217 | 0.208 | 0.235 | \_  |
|   |   |   |   |   |   |   |   |
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| **Table S1B. Intra-specific measures of diversity and divergence.**  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **Taxon** | **mtDNA uncorrected P distance** | **mtDNA corrected JC diversity (Pi)** |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| *D. barraganae* (N=1) | 0 | 0 |  |  |  |  |  |
| *D. hillii* (N=1) | 0 | 0 |  |  |  |  |  |
| *D. bilybara* (N=60) | 0.014 (0-0.029) | 0.013 (0.00-0.027) |  |  |  |  |  |
| *D. conspicillatus* (N=28) | 0.066 (0-0.119) | 0.071 (0.0-0.133) |  |  |  |  |  |
| *D. custos* (N=7) | 0.028 (0-0.041) | 0.027 (0.003-0.043) |  |  |  |  |  |
| *D. laevis* (N=62) | 0.040 (0-0.067) | 0.040 (0.0-0.076) |  |  |  |  |  |
| *D. platyurus* (N=11) | 0.086 (0-0.134) | 0.094 (0.0-0.159) |  |  |  |  |  |
|   |   |   |  |  |  |  |  |
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| **Table S1C. Diversity and demographic summary statistics. Bold labels with a \* indicate p value significance at the 5% level.** |  |  |  |
|  |  |  |  |  |  |  |  |
|   | *Fu's S* | *Tajoma's D* | *R2* |  |  |  |  |
|   |  |  |  |  |  |  |  |
| *D. barraganae (N=1)* | na | na | na |  |  |  |  |
| *D. hilli (N=1)* | na | na | na |  |  |  |  |
| *D. bilybara (N=60)* | **-33.041\*** | **-1.48949\*** | **0.0553\*** |  |  |  |  |
| *D. conspicillatus (N=28)* | -2.55 | -0.45277 | 0.1159 |  |  |  |  |
| *D. custos (N=7)* | -0.173 | -0.13574 | 0.1559 |  |  |  |  |
| *D. laevis (N=62)* | **-14.307\*** | -0.69946 | 0.0877 |  |  |  |  |
| *D. platyurus (N=11)* | 3.45 | 1.1541 | 0.2188 |  |  |  |  |
|   |   |   |   |  |  |  |  |