**Supplementary Table S1.** List of specimens newly analysed in this study. Specimen voucher numbers (also used as working codes) and the respective collection localities are given in accordance with Figure 1. GenBank Accession Numbers for the *cytochrome b* sequences are also provided. Tissue-samples have been deposited in the collections of the Zoological Museum of the University of Patras (ZMUP).

|  |  |  |  |
| --- | --- | --- | --- |
| **ZMUP #** | **Species** | **Locality** | **GenBank** |
| 475 | *Telescopus fallax* | Ioannina, Greece | PP539917 |
| 365 | *Telescopus fallax* | Strofylia, Peloponnesos, Greece | PP539918 |
| 457 | *Telescopus fallax* | Serifos, Greece | PP539919 |
| 486 | *Telescopus fallax* | Kasos, Greece | PP539920 |
| 487 | *Telescopus fallax* | Kasos, Greece | PP539921 |
| 155 | *Telescopus fallax* | Meligalas, Peloponnesos, Greece | PP539922 |
| 330 | *Telescopus fallax* | Crete, Greece | PP539923 |
| 384 | *Telescopus fallax* | Skyros, Greece | PP539924 |
| 389 | *Telescopus fallax* | Skyros, Greece | PP539925 |
| 455 | *Telescopus fallax* | Milos, Greece | PP539926 |
| 489 | *Telescopus fallax* | Milos, Greece | PP539927 |
| 505 | *Telescopus fallax* | Syros, Greece | PP539928 |
| 514 | *Telescopus fallax* | Andros, Greece | PP539929 |
| 425 | *Natrix tessellata* | Feneos, Peloponnesos, Greece | PP539912 |
| 444 | *Natrix tessellata* | Crete, Greece | PP539913 |
| 470 | *Natrix tessellata* | Mesologhi, Greece | PP539914 |
| 497 | *Natrix tessellata* | Karla, Greece | PP539915 |
| 541 | *Natrix tessellata* | Feneos, Peloponnesos, Greece | PP539916 |
| 646 | *Natrix tessellata* | Serifos, Greece | PP539910 |
| 648 | *Natrix tessellata* | Serifos, Greece | PP539911 |

**Supplementary Table S2.** List of GenBank sequences used in this study: Accession Numbers and respective reference.

|  |  |  |
| --- | --- | --- |
| **Taxon** | **Accession Numbers** | **Reference** |
| *Natrix tessellata* | AY487574-AY487620 | Guicking et al. (2009) |
| *Natrix tessellata* | AY487622-AY487680 | Guicking et al. (2009) |
| *Natrix tessellata* | AY866531-AY866532 | Guicking et al. (2006) |
| *Natrix tessellata* | EU119167-EU119170 | Guicking et al. (2009) |
| *Natrix tessellata* | JX315483-JX315504 | Kyriazi et al. (2013) |
| *Natrix helvetica* | LT839257 | Kindler et al. (2017) |
| *Telescopus fallax sensu lato* | AY188039 | Nagy et al. (2003) |
| *Telescopus fallax sensu lato* | JX315505-JX315522 | Kyriazi et al. (2013) |
| *Telescopus fallax sensu lato* | JX315524-JX315530 | Kyriazi et al. (2013) |
| *Telescopus fallax sensu lato* | MK373068-MK373084 | Šmíd et al. (2019) |
| *Telescopus fallax sensu lato* | MK373086-MK373088 | Šmíd et al. (2019) |

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**Supplementary Table S3.** Mean p-distance genetic divergences (cytochrome *b*) among the main clades and subclades of *Telescopus fallax.*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Eastermost |  |  |  |  |  |  |  |  |  |  |
| Balkan Peninsula | 0.077 |  |  |  |  |  |  |  |  |  |
| Cyclades | 0.077 | 0.045 |  |  |  |  |  |  |  |  |
| West Turkey | 0.081 | 0.059 | 0.064 |  |  |  |  |  |  |  |
| Central Turkey | 0.069 | 0.059 | 0.060 | 0.032 |  |  |  |  |  |  |
| *T. f. syriacus* 1 | 0.072 | 0.067 | 0.063 | 0.041 | 0.036 |  |  |  |  |  |
| Cyprus / *T. f. cyprianus* | 0.076 | 0.057 | 0.064 | 0.049 | 0.041 | 0.045 |  |  |  |  |
| *T. nigriceps* | 0.074 | 0.073 | 0.068 | 0.044 | 0.023 | 0.041 | 0.056 |  |  |  |
| Crete | 0.066 | 0.054 | 0.053 | 0.059 | 0.056 | 0.061 | 0.059 | 0.051 |  |  |
| *T. f. syriacus* 2 | 0.077 | 0.068 | 0.072 | 0.045 | 0.034 | 0.041 | 0.055 | 0.038 | 0.068 |  |
| *T. hoogstraali* | 0.077 | 0.077 | 0.065 | 0.050 | 0.042 | 0.032 | 0.054 | 0.046 | 0.065 | 0.049 |

**Supplementary Table S4.** Mean p-distance genetic divergences (cytochrome *b*) among the main clades and subclades of *Natrix tessellata.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Iran |  |  |  |  |  |  |  |
| Jordan | 0.075 |  |  |  |  |  |  |
| Greece | 0.077 | 0.077 |  |  |  |  |  |
| Anatolia+Cyprus | 0.071 | 0.073 | 0.074 |  |  |  |  |
| Central Asia | 0.078 | 0.075 | 0.078 | 0.040 |  |  |  |
| Crete | 0.081 | 0.072 | 0.078 | 0.060 | 0.068 |  |  |
| Europe+NW Turkey | 0.079 | 0.070 | 0.076 | 0.063 | 0.068 | 0.027 |  |
| SW Turkey | 0.080 | 0.070 | 0.075 | 0.067 | 0.070 | 0.028 | 0.011 |