

**Specimen data to the phylogenetic study of the tribe Barbitistini  
(Orthoptera: Tettigonioidea: Phaneropteridae) in Ullrich et al. 2010**

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**Abstract**

Locality data and additional information are given for the specimens the study of ULLRICH et al. 2010 is based on.

**Zusammenfassung**

Wir geben hier genaue Fundortangaben und weitere Informationen zu den Tieren, auf denen die Untersuchung von ULLRICH et al. 2010 beruht.

Analysing phylogenetic relationships based on the study of DNA sequences becomes more and more important in all groups of living organisms. While the interpretation of the data may remain controversial in some cases, published sequence information can easily be used for new and improved calculations.

Several papers of this type have also been published about Orthopteran species with the sequence information deposited in Genbank. In this databank, however, there seems to be no obligatory field for information about the locality where the organism in question has been collected. Only the country has to be mentioned. For many analyses this restriction may be not important. In groups with many local species, however, it will cause problems. For example, neither relationships between different populations within one country can be reproduced using the published data, nor it can be resolved which population(s) may belong to species recognized afterwards as new species.

The flightless group Barbitistini is a typical example of such difficult case. It contains 269 valid species with 52 valid subspecies (OSF) many of them with quite restricted ranges. The phylogenetic relationships of most of its genera and of about 110 species/subspecies have been studied by ULLRICH et al. 2010. The sequence data of all specimens are deposited in Genbank (see Supplementary Material of ULLRICH et al. 2010, SM0001.doc), however, without information about the collecting side except country. Without this information the data cannot be used in future studies, where biogeographical questions are addressed. Of course, it would be even more helpful, if additional information about the specimens would be available (e.g. individual code, depository), e.g., to clarify or correct misidentifications. Since at the moment these data are still available, we present them here. The phylogeny and evolution of this group is still an intensively studied topic (e.g. HELLER et al. 2011, IORGU 2012, KAYA et al. 2012a, 2012b, SZÖVÉNYI et al. 2012, CHOBANOV et al. 2013, BOZTEPE et al. 2013) and documented DNA data are a very valuable resource.

In the paper ULLRICH et al. (2010) present two phylogenetic trees, one based on nuclear sequences (internal transcribed spacer 1 and 2, Fig. 3a, p. 24), the other on mitochondrial DNA, Fig. 3b, p. 25). In Table 1 we give two lists of the species names as they appear in the trees from top to bottom together with the respective specimen numbers. In Table 2 locality data are presented for the specimens ordered by number. In Table 3 additional information about the specimens can be found. The specimen of *Poecilimon luschani luschani* from Turkey, Balikeshir: Kazdagi, Sarikiz belongs to the newly described species *P. helleri* following BOZTEPE et al. 2013.

Table 1: Linking of species names as in Fig. 3 of ULLRICH et al. 2010 and specimen numbers. Abbreviations: P. = *Poecilimon*; # = specimen number (see Table 2); others see text.

| ITS sequences - Figure 3A           | #   | Mito. sequences - Figure 3B       | #   |
|-------------------------------------|-----|-----------------------------------|-----|
| <i>P. ornatus</i>                   | 26  | <i>P. harzi</i>                   | 30  |
| <i>P. ornatus</i>                   | 38  | <i>P. mistshenkoi mistshenkoi</i> | 24  |
| <i>P. ornatus</i>                   | 44  | <i>P. affinis</i>                 | 1   |
| <i>P. ornatus</i>                   | 45  | <i>P. ornatus</i>                 | 38  |
| <i>P. affinis rilensis</i>          | 4   | <i>P. ornatus</i>                 | 44  |
| <i>P. harzi</i>                     | 30  | <i>P. hoelzeli</i>                | 33  |
| <i>P. mistshenkoi mistshenkoi</i>   | 24  | <i>P. pindos</i>                  | 75  |
| <i>P. gracilioides</i>              | 59  | <i>P. ornatus</i>                 | 26  |
| <i>P. soulion</i>                   | 94  | <i>P. ornatus</i>                 | 45  |
| <i>P. hoelzeli</i>                  | 33  | <i>P. affinis rilensis</i>        | 4   |
| <i>P. pindos</i>                    | 75  | <i>P. obesus</i>                  | 29  |
| <i>P. artedentatus</i>              | 133 | <i>P. obesus</i>                  | 88  |
| <i>P. obesus</i>                    | 48  | <i>P. obesus</i>                  | 48  |
| <i>P. obesus</i>                    | 29  | <i>P. nobilis</i>                 | 2   |
| <i>P. obesus</i>                    | 88  | <i>P. artedentatus</i>            | 133 |
| <i>P. affinis</i>                   | 1   | <i>P. gracilioides</i>            | 59  |
| <i>P. gracilis</i>                  | 11  | <i>P. soulion</i>                 | 94  |
| <i>P. nobilis</i>                   | 2   | <i>P. gracilis</i>                | 11  |
| <i>P. tschorochensis</i>            | 162 | <i>P. tschorochensis</i>          | 162 |
| <i>P. jonicus jonicus</i>           | 31  | <i>Phonochorion satunini</i>      | 77  |
| <i>P. heroicus</i>                  | 65  | <i>P. lodosi</i>                  | 20  |
| <i>P. bifenstratus</i>              | 147 | <i>P. puleher</i>                 | 54  |
| <i>P. schmidtii</i>                 | 127 | <i>P. sanctipauli</i>             | 93  |
| <i>Polysarcus denticauda</i>        | 100 | <i>P. sanctipauli</i>             | 95  |
| <i>P. mytilenensis brevissimus</i>  | 63  | <i>P. varicornis</i>              | 159 |
| <i>P. mytilenensis brevissimus</i>  | 89  | <i>P. zonatus</i>                 | 152 |
| <i>P. mytilenensis mytilenensis</i> | 68  | <i>P. tauricola</i>               | 161 |
| <i>Phonochorion satunini</i>        | 77  | <i>P. heroicus</i>                | 65  |
| <i>P. lodosi</i>                    | 20  | <i>P. bifenstratus</i>            | 147 |
| <i>P. pulcher</i>                   | 54  | <i>P. schmidtii</i>               | 127 |
| <i>P. sanctipauli</i>               | 93  | <i>P. jonicus jonicus</i>         | 73  |

| ITS sequences - Figure 3A          | #   | Mito. sequences - Figure 3B         | #   |
|------------------------------------|-----|-------------------------------------|-----|
| <i>P. sanctipauli</i>              | 95  | <i>P. jonicus jonicus</i>           | 31  |
| <i>P. varicornis</i>               | 159 | <i>P. jonicus lobulatus</i>         | 35  |
| <i>P. zonatus</i>                  | 152 | <i>P. jonicus jonicus</i>           | 6   |
| <i>P. tauricola</i>                | 161 | <i>P. weneri</i>                    | 13  |
| <i>P. brunneri</i>                 | 101 | <i>P. weneri</i>                    | 37  |
| <i>P. brunneri</i>                 | 106 | <i>P. jonicus superbus</i>          | 84  |
| <i>P. brunneri</i>                 | 108 | <i>P. jonicus tessellatus</i>       | 27  |
| <i>P. brunneri</i>                 | 98  | <i>P. laevissimus</i>               | 36  |
| <i>P. brunneri</i>                 | 109 | <i>P. erimanthos</i>                | 97  |
| <i>P. brunneri</i>                 | 14  | <i>P. erimanthos</i>                | 21  |
| <i>P. ukrainicus</i>               | 85  | <i>P. martinae martinae</i>         | 66  |
| <i>P. ukrainicus</i>               | 148 | <i>P. inflatus</i>                  | 55  |
| <i>P. ukrainicus</i>               | 150 | <i>P. cretensis</i>                 | 83  |
| <i>P. macedonicus</i>              | 16  | <i>Parapoecilimon antalyaensis</i>  | 50  |
| <i>P. macedonicus</i>              | 43  | <i>P. mytilenensis brevissimus</i>  | 63  |
| <i>P. macedonicus</i>              | 18  | <i>P. mytilenensis brevissimus</i>  | 89  |
| <i>P. macedonicus</i>              | 39  | <i>P. mytilenensis mytilenensis</i> | 68  |
| <i>P. elegans</i>                  | 135 | <i>Polysarcus denticauda</i>        | 100 |
| <i>P. elegans</i>                  | 144 | <i>P. brunneri</i>                  | 108 |
| <i>P. zwicki</i>                   | 28  | <i>P. brunneri</i>                  | 106 |
| <i>P. zwicki</i>                   | 32  | <i>P. brunneri</i>                  | 101 |
| <i>P. thoracicus</i>               | 116 | <i>P. brunneri</i>                  | 14  |
| <i>P. thoracicus</i>               | 5   | <i>P. ukrainicus</i>                | 148 |
| <i>P. thoracicus</i>               | 57  | <i>P. ukrainicus</i>                | 150 |
| <i>P. weneri</i>                   | 13  | <i>P. ukrainicus</i>                | 85  |
| <i>P. weneri</i>                   | 37  | <i>P. brunneri</i>                  | 98  |
| <i>Parapoecilimon antalyaensis</i> | 50  | <i>P. brunneri</i>                  | 109 |
| <i>P. cretensis</i>                | 83  | <i>P. macedonicus</i>               | 43  |
| <i>P. martinae martinae</i>        | 66  | <i>P. macedonicus</i>               | 18  |
| <i>P. inflatus</i>                 | 55  | <i>P. macedonicus</i>               | 39  |
| <i>P. erimanthos</i>               | 97  | <i>P. macedonicus</i>               | 16  |
| <i>P. erimanthos</i>               | 21  | <i>P. elegans</i>                   | 135 |
| <i>P. laevissimus</i>              | 36  | <i>P. elegans</i>                   | 144 |
| <i>P. jonicus jonicus</i>          | 6   | <i>P. zwicki</i>                    | 28  |
| <i>P. jonicus jonicus</i>          | 73  | <i>P. zwicki</i>                    | 32  |
| <i>P. jonicus tessellatus</i>      | 27  | <i>P. thoracicus</i>                | 116 |
| <i>P. jonicus superbus</i>         | 84  | <i>P. thoracicus</i>                | 5   |
| <i>P. jonicus lobulatus</i>        | 35  | <i>P. thoracicus</i>                | 57  |
| <i>P. mariannae</i>                | 34  | <i>P. veluchianus veluchianus</i>   | 10  |
| <i>P. zimmeri</i>                  | 40  | <i>P. veluchianus veluchianus</i>   | 42  |
| <i>P. zimmeri</i>                  | 41  | <i>P. zimmeri</i>                   | 7   |
| <i>P. veluchianus veluchianus</i>  | 10  | <i>P. zimmeri</i>                   | 46  |
| <i>P. veluchianus veluchianus</i>  | 42  | <i>P. zimmeri</i>                   | 40  |
| <i>P. veluchianus minor</i>        | 25  | <i>P. zimmeri</i>                   | 41  |
| <i>P. chopardi</i>                 | 19  | <i>P. veluchianus minor</i>         | 25  |

| ITS sequences - Figure 3A       | #   | Mito. sequences - Figure 3B     | #   |
|---------------------------------|-----|---------------------------------|-----|
| <i>P. gerlindae</i>             | 3   | <i>P. gerlindae</i>             | 22  |
| <i>P. gerlindae</i>             | 22  | <i>P. gerlindae</i>             | 103 |
| <i>P. gerlindae</i>             | 103 | <i>P. gerlindae</i>             | 3   |
| <i>P. propinquus</i>            | 96  | <i>P. zimmeri</i>               | 111 |
| <i>P. aegaeus</i>               | 90  | <i>P. aegaeus</i>               | 90  |
| <i>P. thessalicus</i>           | 79  | <i>P. chopardi</i>              | 19  |
| <i>P. thessalicus</i>           | 149 | <i>P. mariannae</i>             | 34  |
| <i>P. zimmeri</i>               | 7   | <i>P. thessalicus</i>           | 79  |
| <i>P. zimmeri</i>               | 46  | <i>P. thessalicus</i>           | 149 |
| <i>P. zimmeri</i>               | 111 | <i>P. propinquus</i>            | 96  |
| <i>P. pergamicus</i>            | 69  | <i>P. pergamicus</i>            | 69  |
| <i>P. pergamicus</i>            | 78  | <i>P. pergamicus</i>            | 78  |
| <i>P. pergamicus</i>            | 91  | <i>P. pergamicus</i>            | 91  |
| <i>P. ampliatus</i>             | 110 | <i>P. bilgeri</i>               | 56  |
| <i>P. intermedius</i>           | 132 | <i>P. ledereri</i>              | 143 |
| <i>P. klisuriensis</i>          | 12  | <i>P. amissus</i>               | 140 |
| <i>P. ebneri</i>                | 15  | <i>P. m. marmaraensis</i>       | 53  |
| <i>P. davisii</i>               | 52  | <i>P. davisii</i>               | 52  |
| <i>P. haydari</i>               | 87  | <i>P. ebneri</i>                | 15  |
| <i>P. haydari</i>               | 153 | <i>P. intermedius</i>           | 132 |
| <i>Poecilimonella armeniaca</i> | 160 | <i>P. ampliatus</i>             | 110 |
| <i>P. doga</i>                  | 64  | <i>P. klisuriensis</i>          | 12  |
| <i>P. m. marmaraensis</i>       | 53  | <i>P. excisus</i>               | 61  |
| <i>P. amissus</i>               | 140 | <i>P. orbelicus</i>             | 17  |
| <i>P. luschani luschani</i>     | 163 | <i>P. orbelicus</i>             | 47  |
| <i>P. ledereri</i>              | 143 | <i>P. tuncayi</i>               | 126 |
| <i>P. birandi</i>               | 49  | <i>P. tuncayi</i>               | 137 |
| <i>P. orbelicus</i>             | 17  | <i>P. birandi</i>               | 49  |
| <i>P. orbelicus</i>             | 47  | <i>P. luschani luschani</i>     | 163 |
| <i>P. tuncayi</i>               | 126 | <i>Poecilimonella armeniaca</i> | 160 |
| <i>P. tuncayi</i>               | 137 | <i>P. doga</i>                  | 64  |
| <i>P. excisus</i>               | 61  | <i>P. haydari</i>               | 87  |
| <i>P. bilgeri</i>               | 56  | <i>P. haydari</i>               | 153 |
| <i>P. richteri</i>              | 145 | <i>P. kusnezovi</i>             | 123 |
| <i>P. n. sp. 2</i>              | 151 | <i>P. scythicus</i>             | 70  |
| <i>P. anatolicus</i>            | 9   | <i>P. n. sp. 2</i>              | 151 |
| <i>P. heinrichi</i>             | 118 | <i>P. richteri</i>              | 145 |
| <i>P. cervus</i>                | 158 | <i>P. ersisi</i>                | 129 |
| <i>P. bosporicus</i>            | 154 | <i>P. syriacus</i>              | 157 |
| <i>P. n. sp. 1</i>              | 142 | <i>P. serratus</i>              | 117 |
| <i>P. sureyanus</i>             | 141 | <i>P. izmirensis</i>            | 62  |
| <i>P. similis</i>               | 125 | <i>P. ege</i>                   | 67  |
| <i>P. demirsoyi</i>             | 121 | <i>P. xenocercus</i>            | 156 |
| <i>P. scythicus</i>             | 70  | <i>P. karabukensis</i>          | 136 |
| <i>P. turciae</i>               | 115 | <i>P. karabukensis</i>          | 138 |

| <b>ITS sequences - Figure 3A</b> | <b>#</b> | <b>Mito. sequences - Figure 3B</b> | <b>#</b> |
|----------------------------------|----------|------------------------------------|----------|
| <i>P. turcicus</i>               | 146      | <i>P. karakushi</i>                | 58       |
| <i>P. turcicus</i>               | 99       | <i>P. angulatus</i>                | 155      |
| <i>P. miramae</i>                | 119      | <i>P. obtusicercus</i>             | 124      |
| <i>P. kusnezovi</i>              | 123      | <i>P. anatolicus</i>               | 9        |
| <i>P. naskrecki</i>              | 120      | <i>P. turcicus</i>                 | 146      |
| <i>P. izmirensis</i>             | 62       | <i>P. n. sp. 1</i>                 | 142      |
| <i>P. serratus</i>               | 117      | <i>P. turcicus</i>                 | 99       |
| <i>P. karabukensis</i>           | 136      | <i>P. turciae</i>                  | 115      |
| <i>P. karabukensis</i>           | 138      | <i>P. miramae</i>                  | 119      |
| <i>P. obtusicercus</i>           | 124      | <i>P. demirsoyi</i>                | 121      |
| <i>P. angulatus</i>              | 155      | <i>P. similis</i>                  | 125      |
| <i>P. ege</i>                    | 67       | <i>P. cervus</i>                   | 158      |
| <i>P. karakushi</i>              | 58       | <i>P. heinrichi</i>                | 118      |
| <i>P. xenocercus</i>             | 156      | <i>P. naskrecki</i>                | 120      |
| <i>P. syriacus</i>               | 157      | <i>P. bosphoricus</i>              | 154      |
| <i>P. paros</i>                  | 23       | <i>P. sureyanus</i>                | 141      |
| <i>P. paros</i>                  | 134      | <i>P. paros</i>                    | 23       |
| <i>P. hamatus</i>                | 74       | <i>P. paros</i>                    | 134      |
| <i>P. hamatus</i>                | 92       | <i>P. hamatus</i>                  | 74       |
| <i>P. ikariensis</i>             | 81       | <i>P. hamatus</i>                  | 92       |
| <i>P. unispinosus</i>            | 82       | <i>P. deplanatus</i>               | 128      |
| <i>P. deplanatus</i>             | 128      | <i>P. ikariensis</i>               | 81       |
| <i>P. ersisi</i>                 | 129      | <i>P. unispinosus</i>              | 82       |
| <i>Barbitistes ocskayi</i>       | 131      | <i>Andreiniimon nuptialis</i>      | 80       |
| <i>Barbitistes serricauda</i>    | 104      | <i>Isophya modesta rossica</i>     | 107      |
| <i>Ancistrura nigrovittata</i>   | 8        | <i>Leptophyes punctatissima</i>    | 102      |
| <i>Metaplastes ornatus</i>       | 122      | <i>Barbitistes ocskayi</i>         | 131      |
| <i>Andreiniimon nuptialis</i>    | 80       | <i>Barbitistes serricauda</i>      | 104      |
| <i>Isophya modesta rossica</i>   | 107      | <i>Ancistrura nigrovittata</i>     | 8        |
| <i>Leptophyes punctatissima</i>  | 102      | <i>Metaplastes ornatus</i>         | 122      |
| <i>Euconocercus iris</i>         | 71       | <i>Euconocercus iris</i>           | 71       |
| <i>Scudderia furcata furcata</i> | 112      | <i>Phaneroptera falcata</i>        | 130      |
| <i>Phaneroptera falcata</i>      | 130      | <i>Scudderia furcata furcata</i>   | 112      |
| <i>Tylopsis liliifolia</i>       | 105      | <i>Tylopsis liliifolia</i>         | 105      |

Table 2: Locality data and Genbank accession codes for the studied specimens. Abbreviations: # = specimen number (see Table 1); countries: ARM Armenia, AZ Azerbaijan, BG Bulgaria, CY Cyprus, CZ Czech Republic, D Germany, GR Greece, I Italy, MNE Montenegro, SLO Slovenia, TR Turkey, RUS Russian Federation, UA Ukraine, USA United States of America; N, E, S, W cardinal directions; NN elevation above sea level.

| #  | locality   | co-ordinates     | Genbank     |            |
|----|--|------------------|-------------|------------|
|    |  |                  | AM<br>886.. | AM<br>88.. |
| 1  | GR: Florina: Vernon Mts. near Pisoderion                     | 40°45'N, 21°15'E | 537         | 8857       |
| 2  | GR: Lakonia: Mistras near Sparti                             | 37°04'N, 22°22'E | 538         | 8858       |
| 3  | GR: Larissa: 6 km S Nea Monastiri near Farsala               | 39°15'N, 22°17'E | 539         | 8859       |
| 4  | BG: Sofija: near Rila monastery                              | 42°10'N, 23°25'E | 540         | 8860       |
| 5  | BG: Sofija: near Rila monastery                              | 42°10'N, 23°25'E | 541         | 8861       |
| 6  | GR: Threspotia: Margariti, near Parga                        | 39°22'N, 20°25'E | 542         | 8862       |
| 7  | GR: Aitolia-Akarnania: near Arachova, Evinos dam             | 38°40'N, 21°51'E | 543         | 8863       |
| 8  | GR: Thessaloniki: 1 km S Vasiloudi, near Lake Koronia        | 40°38'N, 23°11'E | 544         | 8864       |
| 9  | GR: Kavalla: Pangeon Mt.                                     | 40°54'N, 24°5'E  | 545         | 8865       |
| 10 | GR: Evritania: Trikeriotis, below Domnista                   | 38°46'N, 21°50'E | 546         | 8866       |
| 11 | GR: Florina: Vernon Mts. near Pisoderion                     | 40°45'N, 21°15'E | 547         | 8867       |
| 12 | GR: Kastoria: above Klissoura                                | 40°34'N, 21°27'E | 548         | 8868       |
| 13 | GR: Aitolia-Akar: 2 km to Ag. Stephanos, 20 km S Amphiloikia |                  | 549         | 8869       |
| 14 | GR: Kavalla/Serrai: 4 km E Nea Kerdilia                      | 40°46'N, 23°47'E | 550         | 8870       |
| 15 | GR: Florina: Vernon Mts. near Pisoderion                     | 40°45'N, 21°15'E | 551         | 8871       |
| 16 | GR: Chalkidike: 2 km W Lerissos                              | 40°23'N, 23°52'E | 552         | 8872       |
| 17 | GR: Kavalla: Pangeon Mt.                                     | 40°54'N, 24°5'E  | 553         | 8873       |
| 18 | GR: Serrai: S Theodorio (Lake Kerkini)                       | 41°12'N, 22°54'E | 554         | 8874       |
| 19 | GR: Trikala: Kalambaka                                       | 39°42'N, 21°38'E | 555         | 8875       |
| 20 | TR: Manisa: Sipil Dagħ Milli Parki (ca. 5 km S Manisa)       | 38°33'N, 27°26'E | 556         | 8876       |
| 21 | GR: Ilia: Erimanthos valley 6 km E Koumanis                  | 37°48'N, 21°47'E | 557         | 8877       |
| 22 | GR: Fthiotis: 1 km S Domokos                                 | 39°08'N, 22°17'E | 558         | 8878       |
| 23 | GR: Aegaeen Is.: Island of Paros, above Lefkes               | 37°3'N, 25°11'E  | 559         | 8879       |
| 24 | BG: Sofija: Pirin Mts. near Damjanika                        | 41°45'N, 23°25'E | 560         | 8880       |
| 25 | GR: Fthiotis: 1 km S Tsouka                                  | 38°56'N, 22°04'E | 561         | 8881       |
| 26 | GR: Kavalla: Pangeon Mt.                                     | 40°54'N, 24°5'E  | 562         | 8882       |
| 27 | GR: Argolis: Mykene  | 37°44'N, 22°54'E | 563         | 8883       |
| 28 | GR: Kavalla: Pangeon Mt. or Krinides near Kavalla            |                  | 564         | 8884       |
| 29 | GR: Aitolia-Akar: 2 km to Ag. Stephanos, 20 km S Amphiloikia |                  | 565         | 8885       |
| 30 | BG: Sofija: Pirin Mts. near Javorov                          | 41°50'N, 23°20'E | 566         | 8886       |
| 31 | GR: Ioannina: Vikos gorge                                    |                  | 567         | 8887       |
| 32 | GR: Kavalla: Krinides near Kavala                            | 41°02'N, 24°18'E | 568         | 8888       |
| 33 | GR: Fthiotis: 5 km W Makrirahi                               | 39°05'N, 22°06'E | 569         | 8889       |
| 34 | GR: Larissa: 3 km NE Nea Monastiri near Farsala              | 39°15'N, 22°17'E | 570         | 8890       |
| 35 | GR: Arta: 5 km N Arta  | 39°09'N, 20°59'E | 571         | 8891       |
| 36 | GR: Ilia: 3 km NO Koumani                                    | 37°48'N, 21°47'E | 572         | 8892       |
| 37 | GR: Aitolia-Akar: 2 km to Ag. Stephanos, 20 km S Amphiloikia |                  | 573         | 8893       |

| #  | locality  | co-ordinates     | Genbank     |            |
|----|---|------------------|-------------|------------|
|    |   |                  | AM<br>886.. | AM<br>88.. |
| 38 | GR: Ioannina: above Konitsa                                     | 40°2'N, 20°48'E  | 574         | 8894       |
| 39 | GR: Serrai: s Theodorio (Lake Kerkini)                          | 41°12'N, 22°54'E | 575         | 8895       |
| 40 | GR: Evritania: Kaliakouda Mts.                                  | 38°48'N, 21°47'E | 576         | 8896       |
| 41 | GR: Evritania: Oxia Mts at Katafigion Grameni Oxia              | 38°46'N, 21°58'E | 577         | 8897       |
| 42 | GR: Evritania: Trikeriotis, below Domnista                      | 38°46'N, 21°50'E | 578         | 8898       |
| 43 | GR: Serrai: Lake Kerkini  |                  | 579         | 8899       |
| 44 | GR: Ioannina: above Konitsa                                     | 40°2'N, 20°48'E  | 580         | 8900       |
| 45 | I: Medeazza near Trieste  | 45°44'N, 13°45'E | 581         | 8901       |
| 46 | GR: Fokis: 3 km NW Delphi                                       | 38°29'N, 22°30'E | 582         | 8902       |
| 47 | BG: Sofija: Pirin Mts. near Javorov                             | 41°50'N, 23°20'E | 583         | 8903       |
| 48 | GR: Arkadia: Kalivia Karion                                     | 37°25'N, 22°03'E | 584         | 8904       |
| 49 | TR: Mugla: Tlos, ca. 20 km E Fethiye                            | 36°34'N, 29°23'E | 585         | 8905       |
| 50 | TR: Antalya: Mts. near Alanya (Güneycik)                        | 36°48'N, 31°48'E | 586         | 8906       |
| 52 | TR: Isparta: Sultan Dagh near Aksehir, 1900 mNN                 | 38°17'N, 31°19'E | 587         | 8907       |
| 53 | TR: Kizilirmak: 10 km W Lüleburgaz (branch to Saricaali)        | 41°25'N, 27°15'E | 588         | 8908       |
| 54 | TR: Aydin: Dilek Yarimadasi Milli Parki (ca. 20 km WSW Söke)    | 37°42'N, 27°12'E | 589         | 8909       |
| 55 | TR: Antalya: Xanthos (ca. 130 km SW Antalya)                    | 36°23'N, 29°17'E | 590         | 8910       |
| 56 | TR: Antalya: Perge (ca. 15 km NE Antalya)                       | 36°58'N, 30°51'E | 591         | 8911       |
| 57 | GR: Northern Greece   |                  | 592         | 8912       |
| 58 | TR: Isparta: Dav(r)as Mts. above Savköy                         | 37°46'N, 30°43'E | 593         | 8913       |
| 59 | GR: Arta: Mt. Tsoumerka above Vourgareli, 1850 mNN              | 39°24'N, 21°9'E  | 594         | 8914       |
| 61 | TR: Konya: Aksehir  | 38°21'N, 31°29'E | 595         | 8915       |
| 62 | TR: Manisa: Sipil Dagh Milli Parki, 1200mNN (ca. 5 km S Manisa) | 38°33'N, 27°26'E | 596         | 8916       |
| 63 | GR: Aegean Is.: Island of Lesbos, ruins SE Vrissa               | 39°2'N, 26°11'E  | 597         | 8917       |
| 64 | TR: Isparta: Dav(r)as Mts. above Savköy                         | 37°46'N, 30°43'E | 598         | 8918       |
| 65 | UA: surrounding of Lugansk, Lugansk Reserve                     | 47°21'N, 37°3'E  | 599         | 8919       |
| 66 | TR: Antalya: Cirali Olimpos (ca. 60 km SSW Antalya), 10 mNN     | 36°24'N, 30°28'E | 600         | 8920       |
| 67 | GR: Aegean Is.: Island of Samos: 3 km NE Mytilinioi             | 37°44'N, 26°54'E | 601         | 8921       |
| 68 | GR: Aegean Is.: Island of Lesbos, near Rachidi (S Neochori)     | 39°1'N, 26°18'E  | 602         | 8922       |
| 69 | TR: Izmir: Bergama, Akropolis                                   | 39°8'N, 27°12'E  | 603         | 8923       |
| 70 | UA: surrounding of Lugansk, Lugansk Reserve                     | 47°21'N, 37°3'E  | 604         | 8924       |
| 71 | AZ: near Lenkoran   | 38°45'N, 48°51'E | 605         | 8925       |
| 73 | GR: Ionian Is.: Island of Kerkyra, above Spartilas              | 39°44'N, 19°50'E | 606         | 8926       |
| 74 | TR: Mugla: above Bayir(koy) (17 km SW Marmaris)                 | 36°43'N, 28°11'E | 607         | 8927       |
| 75 | GR: Ioannina: Mavrovouni Mts.                                   | 39°51'N, 21°7'E  | 608         | 8928       |
| 77 | TR: Rize: above Ikizdere, 1500 mNN                              | 40°40'N, 40°42'E | 609         | 8929       |
| 78 | GR: Aegean Is.: Island of Lesbos, aqueduct near Moria           | 39°7'N, 26°30'E  | 610         | 8930       |
| 79 | GR: Larissa: near Sikourio                                      | 39°45'N, 22°34'E | 611         | 8931       |
| 80 | GR: Ilia: Erimanthos valley 6 km E Koumanis                     | 37°48'N, 21°47'E | 612         | 8932       |
| 81 | GR: Aegean Is.: Island of Ikaria: 3 km NW Ag. Kyrikos           | 37°37'N, 26°16'E | 613         | 8933       |
| 82 | GR: Aegean Is.: Island of Chios, Sidirounta S Volissos          | 38°26'N, 25°58'E | 614         | 8934       |

| #   | locality  | co-ordinates     | Genbank     |            |
|-----|---|------------------|-------------|------------|
|     |   |                  | AM<br>886.. | AM<br>88.. |
| 83  | GR: Crete: Rethimni: Monastery Preveli                        | 35°9'N, 24°27'E  | 615         | 8935       |
| 84  | I: L'Aquila, Gran Sasso: 10 km westl. Fonte Cerreto, 1300 mNN | 42°27'N, 13°25'E | 616         | 8936       |
| 85  | UA: Kiev & Cherkaska Oblast, near Kanev                       | 49°44'N, 31°30'E | 617         | 8937       |
| 87  | TR: Konya: Kizkayasi Mts. N Konya, 1700 mNN                   | 38°8'N, 32°31'E  | 618         | 8938       |
| 88  | GR: Aitolia-Akarnania: Bambini, N of Astakos                  | 38°40'N, 21°8'E  | 619         | 8939       |
| 89  | GR: Aegean Is.: Island of Lesbos, ruins SE Vrissa             | 39°2'N, 26°11'E  | 620         | 8940       |
| 90  | GR: Island of Evia: near Oktonia SSE Kimi, 100 mNN            | 38°41'N, 24°10'E | 621         | 8941       |
| 91  | GR: Aegean Is.: Island of Lesbos, aqueduct near Moria         | 39°7'N, 26°30'E  | 622         | 8942       |
| 92  | GR: Aegean Is.: Island of Samos: near Kallithea               | 37°44'N, 26°34'E | 623         | 8943       |
| 93  | GR: Aegean Is.: Island of Rhodos: Lindos                      | 36°5'N, 28°4'E   | 624         | 8944       |
| 94  | GR: Ioannina: Soulion Mts., above Romanos, 1300-1400 mNN      | 39°23'N, 20°39'E | 625         | 8945       |
| 95  | GR: Aegean Is.: Island of Samos: Moni Vronta                  | 37°47'N, 26°51'E | 626         | 8946       |
| 96  | GR: Island of Evia: Dirphys Mts above Steni Dirfios, 500 mNN  | 38°35'N, 23°49'E | 627         | 8947       |
| 97  | GR: Ilia: Erimanthos valley 6 km E Koumanis                   | 37°48'N, 21°47'E | 628         | 8948       |
| 98  | GR: Evros: S Pessani  | 41°6'N, 26°6'E   | 629         | 8949       |
| 99  | TR: Kirklareli: 10 km W Lüleburgaz (branch to Saricaali)      | 41°25'N, 27°15'E | 630         | 8950       |
| 100 | GR: Kavalla: Pangeon Mt.                                      | 40°53'N, 24°3'E  | 631         | 8951       |
| 101 | TR: Tekirdagh: 15 km S Corlu                                  | 41°4'N, 27°47'E  | 632         | 8952       |
| 102 | D: town of Bonn   | 50°44'N, 7°06'E  | 633         | 8953       |
| 103 | GR: Fthiotis: Domokos   | 39°8'N, 22°17'E  | 634         | 8954       |
| 104 | D: Northern Germany: Göttingen (?)                            |                  | 635         | 8955       |
| 105 | CY: Paphos, Anarita   | 34°45'N, 32°32'E | 636         | 8956       |
| 106 | TR: Tekirdagh: 15 km S Corlu                                  | 41°4'N, 27°47'E  | 637         | 8957       |
| 107 | UA: Cherkaska Oblast: Kanev, Forest Reserve                   | 49°44'N, 31°30'E | 638         | 8958       |
| 108 | TR: Tekirdagh: 15 km S Corlu                                  | 41°4'N, 27°47'E  | 639         | 8959       |
| 109 | GR: Evros: Forrest of Dadia                                   | 41°9'N, 26°13'E  | 640         | 8960       |
| 110 | MNE: Montenegro/Kosovo: above Cakor-Pass, 2000 mNN            | 42°42'N, 20°5'E  | 641         | 8961       |
| 111 | GR: Ioannina: Mt. Tomaros above Achladia                      | 39°28'N, 20°47'E | 642         | 8962       |
| 112 | USA: Kansas: near Lawrence, Perry Lake                        | 39°17'N, 95°26'W | 643         | 8963       |
| 115 | TR: Orhangazi   | 40°31'N, 29°20'E | 645         | 8965       |
| 116 | GR: Xanthi  | 41°09'N, 24°54'E | 646         | 8966       |
| 117 | TR: Balikesir   | 39°41'N, 28°00'E | 647         | 8967       |
| 118 | TR: Demirköy  | 41°49'N, 27°45'E | 648         | 8968       |
| 119 | TR: Kirklareli: Igneada                                       | 41°53'N, 27°59'E | 649         | 8969       |
| 120 | TR: 9 km S Karasu   | 41°02'N, 30°37'E | 650         | 8970       |
| 121 | TR: Hasanlar Baraji (Düzke)                                   | 40°56'N, 31°18'E | 651         | 8971       |
| 122 | GR: Fthiotis: Vitoli near Makrakomi                           | 38°58'N, 22°00'E | 652         | 8972       |
| 123 | UA: Crimea: near Yalta  | 44°30'N, 34°10'E | 653         | 8973       |
| 124 | TR: above Denizli   | 37°39'N, 29°14'E | 654         | 8974       |
| 125 | TR: Safranbolu  | 41°18'N, 32°42'E | 655         | 8975       |
| 126 | TR: 10 km S Bozdogan  | 37°36'N, 28°21'E | 656         | 8976       |



| #   | locality   | co-ordinates      | Genbank     |            |
|-----|--|-------------------|-------------|------------|
|     |  |                   | AM<br>886.. | AM<br>88.. |
| 127 | BG: Tundzha valley, Elhovo, Polne Topchiya reserve         |                   | 657         | 8977       |
| 128 | GR: Aegaeen Is.: Island of Karpathos, Mt. Lastos, 900 mNN  | 35°34'N, 27°09'E  | 658         | 8978       |
| 129 | TR: Sivas: Camlibel-Pass, 1600 mNN                         | 39°58'N, 36°31'E  | 659         | 8979       |
| 130 | D: Rhöndorf near Bonn                                      | 50°39'N, 7°12'E   | 660         | 8980       |
| 131 | SLO: Brje pri Komnu, ca. 20 km NW Sezana                   |                   | 661         | 8981       |
| 132 | CZ: Bile Karpaty, near Velka nad Velickou                  |                   | 662         | 8982       |
| 133 | GR: Achaia: Leontio, 1300 mNN                              | 38°7'N, 21°55'E   | 663         | 8983       |
| 134 | GR: Aegaeen Is.: Island of Paros, above Lefkes             | 37°3'N, 25°11'E   | 664         | 8984       |
| 135 | SLO: Slavnik   | 45°32'N, 13°58'E  | 665         | 8985       |
| 136 | TR: 5 km E Eskipaza  | 40°36'N, 32°28'E  | 666         | 8986       |
| 137 | TR: Mugla: Labranda  | 37°24'N, 27°42'E  | 667         | 8987       |
| 138 | TR: Safranbolu   | 41°15'N, 32°42'E  | 668         | 8988       |
| 140 | TR: 5km NW Ivrinidi  | 39°37'N, 27°28'E  | 669         | 8989       |
| 141 | TR: Orhangazi  | 40°31'N, 29°25'E  | 670         | 8990       |
| 142 | TR: Susurluk   | 39°52'N, 28°10'E  | 671         | 8991       |
| 143 | TR: Izmir: Zeytinlik near Ödemis                           | 38°17'N, 28°01'E  | 672         | 8992       |
| 144 | SLO: Grize, 15 km NE Trieste                               | 45°45'N, 13°56'E  | 673         | 8993       |
| 145 | ARM: Syunik: 5 km W Goris                                  | 39°30'N, 46°20'E  | 674         | 8994       |
| 146 | TR: Bandirma   | 40° 22'N, 27°55'E | 675         | 8995       |
| 147 | RUS: near Novorossiysk, village of Gayduk                  | 44°47'N, 37°41'E  | 676         | 8996       |
| 148 | BG: C Danubian plane, N Pleven, near road to Nikopol       |                   | 677         | 8997       |
| 149 | GR: Larissa: Sikorio                                       | 39°46'N, 22°36'E  | 678         | 8998       |
| 150 | BG: C Danubian plane, N Pleven, near road to Nikopol       |                   | 679         | 8999       |
| 151 | TR: Istanbul: Catalca                                      | 41°8'N, 28°28'E   | 680         | 9000       |
| 152 | TR: Antalya: Bakirlidag-Pozan, 1400 mNN                    |                   | 681         | 9001       |
| 153 | TR: Konya: Seydiselik, Bulunyo Yoylosi, 1560 mNN           | 37°45'N, 32°05'E  | 682         | 9002       |
| 154 | TR: Istanbul: Belgrad Orm., Büyükbent (Fridanlikta)        | 41°11'N, 28°57'E  | 683         | 9003       |
| 155 | TR: Denizli-Antalya road, 18 km, Yol kenari, Fidanlik      |                   | 684         | 9004       |
| 156 | TR: Corum-Iskilip road, 700 mNN                            | 40°40'N, 34°27'E  | 685         | 9005       |
| 157 | TR: Sanliurfa-Viransehir road, 50th km                     | 37°14'N, 39°15'E  | 686         | 9006       |
| 158 | TR: Corum-Iskilip: ilce girisi, 675 mNN                    | 40°42'N, 34°29'E  | 687         | 9007       |
| 159 | TR: Mugla: Dalyan, Iztuzu, 239 mNN                         | 36°46'N, 28°40'E  | 688         | 9008       |
| 160 | TR: Malatya: Arapgir, Kuylan Göldagi                       | 39°0'N, 38°22'E   | 689         | 9009       |
| 161 | TR: Nigde: Ulukisla Ciftehan, Karagöl yaylasi, 1530 mNN    | 37°29'N, 34°45'E  | 690         | 9010       |
| 162 | TR: Artvin: Ardanuc, 2230 mNN, Kutul yaylasi, orman kenari | 41°04'N, 42°13'E  | 691         | 9011       |
| 163 | TR: Balikesir: Kazdagi, Sarikiz                            |                   | 692         | 9012       |

Table 3: Additional data for the studied specimens. Abbreviations: # = specimen number (see Table 2); Pörschmann et al. = U. Pörschmann, K. Reinhold, K. Strauß, B. Ullrich; ZFMK Zoologisches Forschungsmuseum Alexander König; CH Collectio Heller; \* according to BOZTEPE et al. 2013.

| #  | date        | Sex | Deposition | Specimen-code | remarks  | collector                 |
|----|-------------|-----|------------|---------------|----------|---------------------------|
| 1  | 19.07.2001  |     |            | H 29          |          | K.-G. Heller              |
| 2  |             |     |            | H 09/#19      |          | K. Pollmann & K. Reinhold |
| 3  |             |     |            | H 11/#22      |          | K. Pollmann & K. Reinhold |
| 4  | 21.07.2001  |     |            | H 23          | topotype | K.-G. Heller              |
| 5  | 21.07.2001  |     |            | H 24          |          | K.-G. Heller              |
| 6  |             |     |            | H 13          |          | K. Reinhold               |
| 7  |             |     |            | H 27          |          | D. v. Helversen           |
| 8  |             |     |            | H 18/#26      |          | K. Pollmann & K. Reinhold |
| 9  | 24-5.7.2001 |     |            | H 35          |          | K.-G. Heller              |
| 10 |             |     |            | H 36          |          | D. v. Helversen           |
| 11 | 19.07.2001  |     |            | H 30          |          | K.-G. Heller              |
| 12 | 19.07.2001  |     |            | H 26          | topotype | K.-G. Heller              |
| 13 |             |     |            | H 20/#43      |          | K. Pollmann & K. Reinhold |
| 14 |             |     |            | H 19/#45      |          | K. Pollmann & K. Reinhold |
| 15 | 19.07.2001  |     |            | H 28          |          | K.-G. Heller              |
| 16 |             |     |            | H 16/#35      |          | K. Pollmann & K. Reinhold |
| 17 | 24-5.7.2001 |     |            | H 21          |          | K.-G. Heller              |
| 18 | 20.07.2001  |     |            | H 70          |          | K.-G. & M. Heller         |
| 19 |             |     |            | H 52          |          | K. Pollmann & K. Reinhold |
| 20 | 2001        |     |            | H 39          | topotype | K.-G. Heller              |
| 21 | 06.1997     |     |            | H 48          |          | K.-G. Heller              |
| 22 |             |     |            | H 17/#17      | topotype | K. Pollmann & K. Reinhold |
| 23 | 17.05.1991  |     |            | H 46          | topotype | K. Reinhold               |
| 24 | 22.07.2001  | f   |            | H 41          | topotype | K.-G. & M. Heller         |
| 25 |             |     |            | H 14/# 46     | topotype | K. Pollmann & K. Reinhold |
| 26 | 24-5.7.2001 |     |            | H 40          |          | K.-G. & M. Heller         |
| 27 |             |     |            | H 8           |          | K. Pollmann & K. Reinhold |
| 28 | 05.2001     |     |            | H 49          |          |                           |
| 29 |             |     |            | H 10/#42      |          | K. Pollmann & K. Reinhold |
| 30 | 22.07.2001  | m   |            | H 37          | topotype | K.-G. & M. Heller         |
| 31 | 1993        |     |            | H 53          |          | K. Reinhold               |
| 32 |             |     |            | 1 H/#29       |          | K. Pollmann & K. Reinhold |
| 33 |             |     |            | 7 H/#18       |          | K. Pollmann & K. Reinhold |
| 34 |             |     |            | 4 H/#23       |          | K. Pollmann & K. Reinhold |
| 35 |             |     |            | 2 H/#44       |          | K. Pollmann & K. Reinhold |
| 36 |             |     |            | 5 H/#7        |          | K. Pollmann & K. Reinhold |
| 37 |             |     |            | H 50          |          |                           |
| 38 | 18.07.2001  |     |            | H 69          |          | K.-G. & M. Heller         |
| 39 | 20.07.2001  |     |            | H 34          |          | K.-G. & M. Heller         |
| 40 | 29.07.2001  |     |            | H 32          |          | K.-G. & M. Heller         |
| 41 | 27.07.2001  |     |            | H 25          |          | K.-G. & M. Heller         |
| 42 |             |     |            | H 72          |          | D. v. Helversen           |

| #  | date         | Sex | Deposition | Specimen-code | remarks                               | collector                   |
|----|--------------|-----|------------|---------------|---------------------------------------|-----------------------------|
| 43 |              |     |            | H 51          |                                       |                             |
| 44 | 18.07.2001   |     |            | H 33          |                                       | K.-G. & M. Heller           |
| 45 |              |     |            | H 15          |                                       |                             |
| 46 |              |     |            | H 12/#16      |                                       |                             |
| 47 | 22.07.2001   |     |            | H 31          |                                       | K.-G. & M. Heller           |
| 48 | 2000         |     |            |               | <i>P. artedentatus</i> Nachzucht 2001 |                             |
| 49 | 06.06.2000   | m   | ZFMK       | 5440          |                                       | K.-G. Heller                |
| 50 | 11.07.2002   | m   | ZFMK       | 5666          |                                       | K.-G. Heller                |
| 52 | 28.06.2002   | m   | ZFMK       | 5608          |                                       | K.-G. Heller                |
| 53 | 01.05.1996   | m   | ZFMK       | 4582          |                                       | H. Braun                    |
| 54 | 11.06.2000   | f   | ZFMK       | 5480          |                                       | K.-G. Heller                |
| 55 | 05.06.2000   | m   | ZFMK       | 5410          |                                       | K.-G. Heller                |
| 56 | 29.05.2000   | m   | ZFMK       | 5474          |                                       | K.-G. Heller                |
| 57 | 30.06.1993   | m   | ZFMK       | 5077          |                                       | M. Holderied                |
| 58 | 27.06.2002   | m   | CH         | 5579          |                                       | K.-G. Heller                |
| 59 | 06.08.2003   | m   | CH         | 6291          |                                       | KG. & M. Heller, M. Volleth |
| 61 | 29.06.2002   | m   | ZFMK       | 5616          |                                       | K.-G. Heller                |
| 62 | 13.06.2000   | m   | CH         | 5430          |                                       | K.-G. Heller                |
| 63 | 23.05.1993   | m   | CH         | 2981          |                                       | K.-G. Heller                |
| 64 | 27.06.2002   | m   | CH         | 5585          |                                       | K.-G. Heller                |
| 65 | 12.06.1996   | m   | CH         | 4632          |                                       | A. Benediktow               |
| 66 | 28.05.2000   | m   | CH         | 5451          | paratype                              | K.-G. Heller                |
| 67 | 19.05.1998   | m   | CH         | 5096          |                                       | KG Heller & M Volleth       |
| 68 | 22.05.1993   | m   | ZFMK       | 3016          |                                       | K.-G. Heller                |
| 69 | 26.04.1985   | m   | ZFMK       | 0260          | topotype                              | K.-G. Heller                |
| 70 | 12.06.1996   | m   | CH         | 4631          |                                       | A. Benediktow               |
| 71 | 04.1987      | m   | CH         | 3062          |                                       | R. D. Zhantiev              |
| 73 | 14.07.2004   | m   | ZFMK       | 6356          |                                       | K.-G. Heller, M. Heller     |
| 74 | 08.06.2000   | m   | ZFMK       | 5421          |                                       | K.-G. Heller                |
| 75 | 25.08.1988   | m   | ZFMK       | 2361          |                                       | K.-G. Heller                |
| 77 | 07.08.1987   | m   | ZFMK       | 2743          |                                       | K. Reinhold                 |
| 78 | 1994         | f   | ZFMK       | 5069          |                                       | K.-G. Heller                |
| 79 | 26.05.1989   | m   | ZFMK       | 2492          |                                       | K.-G. Heller                |
| 80 | 01.06.1997   | f   | ZFMK       | 5080          |                                       | K.-G. Heller                |
| 81 | 22.05.1998   | m   | ZFMK       | 5106          |                                       | KG Heller & M Volleth       |
| 82 | 20.05.1995   | m   | ZFMK       | 4452          |                                       | K.-G. Heller                |
| 83 | 01.05.1993   | f   | ZFMK       | 3034          |                                       | K. Rohrseitz                |
| 84 | 01.09.1996   | m   | ZFMK       | 5085          |                                       | K.-G. Heller                |
| 85 | 18.06.1996   | f   | ZFMK       | 4486          |                                       | K.-G. Heller                |
| 87 | 29.06.2002   | m   | ZFMK       | 5624          |                                       | K.-G. Heller                |
| 88 | 25.05.1992   | m   | ZFMK       | 2959          |                                       | K.-G. Heller                |
| 89 | 01.03.1994   | m   | ZFMK       | 5061          |                                       | K.-G. Heller                |
| 90 | 10.06.1999   | m   | ZFMK       | 4750          |                                       | KG Heller & M Volleth       |
| 91 | 1994         | f   | ZFMK       | 5066          |                                       | K.-G. Heller                |
| 92 | 21.05.1998   | m   | ZFMK       | 5102          |                                       | KG Heller & M Volleth       |
| 93 | 18-9.04.1983 | m   | ZFMK       | 0458          |                                       | K.-G. Heller                |

| #   | date       | Sex | Deposition    | Specimen-code | remarks   | collector                                      |
|-----|------------|-----|---------------|---------------|-----------|--|
| 94  | 27.06.1999 | f   | ZFMK          | 4827          | topotype  | KG Heller & M Volleth                          |
| 95  | 21.05.1998 | m   | ZFMK          | 5101          |           | KG Heller & M Volleth                          |
| 96  | 18.06.1999 | m   | ZFMK          | 4753          |           | KG Heller & M Volleth                          |
| 97  | 06.1997    |     |               | 52            |           | K.-G. Heller                                   |
| 98  | 01.05.1996 | m   | CH            | 4614a/57      |           | H. Braun                                       |
| 99  | 01.05.1996 | m   | CH            | 4597a         |           | H. Braun                                       |
| 100 | 24.07.2001 |     |               | 70            |           | K.-G. & M. Heller                              |
| 101 | 01.05.1996 | m   | CH            | 4598a         |           | H. Braun                                       |
| 102 | 10.08.2001 |     |               | 76            |           | K. Reinhold                                    |
| 103 | 04.06.1998 | m   | ZFMK          | 4448          | topotype  | KG Heller & M Volleth                          |
| 104 |            |     |               | 74            |           | A. Stumpner                                    |
| 105 | 28.04.2001 |     |               | H 43          |           | K.-G. Heller                                   |
| 106 | 01.05.1996 | m   | CH            | 4599a         |           | H. Braun                                       |
| 107 | 18.06.1996 | m   | CH            | 3334a         |           | K.-G. Heller                                   |
| 108 | 01.05.1996 | m   | CH            | 4608a         |           | H. Braun                                       |
| 109 | 01.05.1996 | m   | CH            | 4611a         |           | H. Braun                                       |
| 110 | 18.08.1988 | m   | ZFMK          | 2442          |           | K. Reinhold                                    |
| 111 | 10.06.1998 | m   | ZFMK          | 5140          |           | KG Heller & M Volleth                          |
| 112 | 1996       | f   | ZFMK          | 3995          |           | K.-G. Heller                                   |
| 115 | 30.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 116 | 11.06.2005 |     |               |               |           | Pörschmann et al.                              |
| 117 | 01.06.2005 |     |               |               |           | Pörschmann et al.                              |
| 118 | 27.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 119 | 27.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 120 | 28.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 121 | 29.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 122 | 22.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 123 | 30.06.1996 | m   | no remainings | X326          |           | R. D. Zhantiev                                 |
| 124 | 07.06.2005 |     |               |               |           | Pörschmann et al.                              |
| 125 | 27.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 126 | 06.06.2005 |     |               |               |           | Pörschmann et al.                              |
| 127 | 17.06.2005 |     |               |               |           | D.Chobanov                                     |
| 128 | 15.05.2005 | m   | ZFMK          | 6465          |           | K.-G. Heller, M. Heller, M. Volleth, E. Wolter |
| 129 | 26.07.1987 | m   | CH            | 2744          |           | K. Reinhold                                    |
| 130 | 27.07.2001 |     |               |               |           | K. Reinhold                                    |
| 131 |            |     |               |               |           | A. Stumpner                                    |
| 132 | 27.06.2005 |     |               |               |           | F. Chládek                                     |
| 133 | 11.06.1997 | m   | ZFMK          | 5128          |           | Jay McCartney                                  |
| 134 | 17.05.1991 | m   | CH            | 2614          | paratype  | K. Reinhold                                    |
| 135 | 07.2004    |     |               |               |           | Lehmann  |
| 136 | 29.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 137 | 02.05.1985 | f   | CH            | 0263          |           | K.-G. Heller                                   |
| 138 | 29.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 140 | 02.06.2005 |     |               |               |           | Pörschmann et al.                              |
| 141 | 31.05.2005 |     |               |               |           | Pörschmann et al.                              |
| 142 | 02.06.2005 |     |               |               | turcicus? | Pörschmann et al.                              |

| #   | date       | Sex | Deposition | Specimen-code         | remarks                | collector              |
|-----|------------|-----|------------|-----------------------|------------------------|------------------------|
| 143 | 04.06.2005 |     |            |                       |                        | Pörschmann et al.      |
| 144 | 05.1986    | m   | CH         | 0038                  |                        | E. Blümm               |
| 145 | 04.07.2005 |     |            |                       |                        | M. Kalashian           |
| 146 | 01.06.2005 |     |            |                       |                        | Pörschmann et al.      |
| 147 | 26.06.2005 | m   | CH         | 6653                  | topotype               | O. Korsunovskava       |
| 148 | 27.07.2005 | m   |            |                       |                        | D. Chobanov            |
| 149 | 24.05.2005 |     |            |                       |                        | Pörschmann et al.      |
| 150 | 27.07.2005 | f   |            |                       |                        | D. Chobanov            |
| 151 | 28.06.2001 |     |            |                       |                        | H. Sevgili             |
| 152 | 06.2004    |     |            | #Ciplak:91;2004G1L004 |                        | B. Ciplak              |
| 153 | 18.07.2003 |     |            | #Ciplak:10;2003G1L003 |                        | B. Ciplak              |
| 154 | 08.06.2001 |     |            |                       |                        | H. Sevgili             |
| 155 | 27.05.2002 |     |            |                       |                        | H. Sevgili & Y. Durmus |
| 156 | 12.06.2001 |     |            |                       |                        | H. Sevgili             |
| 157 | 17.05.2002 |     |            |                       |                        | H. Sevgili             |
| 158 | 11.06.2001 |     |            |                       |                        | H. Sevgili             |
| 159 | 27.05.2002 |     |            |                       |                        | H. Sevgili & Y. Durmus |
| 160 | 14.07.2002 |     |            |                       |                        | H. Sevgili             |
| 161 | 24.06.2001 |     |            |                       |                        | H. Sevgili             |
| 162 | 26.07.2002 |     |            |                       |                        | H. Sevgili             |
| 163 | 03.07.2004 |     |            | #Sevgili: 26          | <i>Poec. helleri</i> * | H. Sevgili             |

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