Munis Entomology & Zoology
https://www.munisentzool.org/
ISSN 1306-3022

Mun. Ent. Zool. 18 (1)
(January, 2023)
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CUPRESSACEAE AND TAXACEAE TAXA (PINOPSIDA: CUPRESSALES) ASSOCIATED WITH LONGICORN BEETLE TAXA (COLEOPTERA: CERAMBYCIDAE) OF TURKEY

| Hüseyin Özdikmen* |

* Department of Biology, Faculty of Science, Gazi University, 06500 Ankara, TURKEY. Email: ozdikmen@gazi.edu.tr, ORCID ID: 0000-0001-9568-0093

[Özdikmen, H. 2023. Cupressaceae and Taxaceae taxa (Pinopsida: Cupressales) associated with longicorn beetle taxa (Coleoptera: Cerambycidae) of Turkey. Munis Entomology & Zoology, 18 (1): 418-428]

ABSTRACT: The paper presents Cupressaceae and Taxaceae taxa (Cupressales) worldwide associated with longicorn beetle taxa of Turkey for the first time. As a result, the members of Cupressaceae family are preferred by a total of 27 species or species-group taxa of longicorn beetles of Turkey, while the member of Taxaceae family is preferred only by two species or species-group taxa.

KEY WORDS: Cerambycidae, Cupressaceae, Taxaceae, Cupressales, Turkey

The Pinophyta or Pinophytina, also known as Coniferophyta or Coniferae, or commonly as conifers, are a division or subdivision of vascular land plants containing a single extant class, Pinopsida. They are cone-bearing seed plants, a subset of gymnosperms. All extant conifers are perennial woody plants with secondary growth. Subclass Pinidae comprises of three orders chiefly: Pinales, Cupressales and Araucariales. Almost all extant conifers are in the orders Pinales, Cupressales (Campbell & Reece, 2005; Güner et al., 2018; Resimli Türkiye Florası Elektronik Versiyonu, 2020). In Turkey, according to Güner et al. (2018) and Resimli Türkiye Florası Elektronik Versiyonu (2020), the order Cupressales has two families, Cupressaceae and Taxaceae. Cupressaceae family includes nineteen species of eight genera which are distributed more or less in all regions of Turkey. Besides, Taxaceae family includes one species of one genus which is also distributed more or less in all regions of Turkey.

CUPRESSACEAE

• Giant Sequoia (*Sequoiadendron* with one species as *Sequoiadendron giganteum* (Lindl.) J.T.Buchholz, 1939)

• Sequoia (*Sequoia* with one species as *Sequoia sempervirens* (D.Don) Endl., 1847)

• Japanese Cedar or Japanese Redwood (*Cryptomeria* with one species as *Cryptomeria japonica* (Thunb. ex L.f.) D.Don, 1839) ,

• Chineese Thuja or Oriental Thuja (*Platycladus* with one species as *Platycladus orientalis* (L.) Franco, 1949)

• Thuja (*Thuja* with two species as *Thuja occidentalis* L., 1753 and *Thuja plicata* Donn ex D.Don, 1824)

• False Cypress (*Chamaecyparis* with two species as *Chamaecyparis lawsoniana* (A.Murray bis) Parl., 1864 and *Chamaecyparis pisifera* (Sieb. &Zucc.) Endl., 1847)

• Cypress (*Cupressus* with three species as *Cupressus sempervirens* L., 1753, *Cupressus arizonica* Greene, 1882 and *Cupressus macrocarpa* Hartw. ex Gordon, 1849)

• Juniper (*Juniperus* with eight species as *Juniperus drupacea* Labill., 1791; *Juniperus communis* L., 1753 that is represented by two subspecies *Juniperus communis* ssp. *communis* L., 1753 and *Juniperus communis* ssp. *saxatilis* (Pall.) E.Murray, 1982; *Juniperus oxycedrus* L., 1753 that is represented only by the nominative subspecies *Juniperus oxycedrus* ssp. *oxycedrus* L., 1753; *Juniperus macrocarpa* Sibth. & Sm., 1816; *Juniperus excelsa* M.Bieb., 1800; *Juniperus foetidissima* Willd., 1806; *Juniperus phoenicea* L., 1753 and *Juniperus sabina* L., 1753)

TAXACEAE

• Yews (*Taxus* with one species as *Taxus baccata* L., 1753)

According to data from the year 2015 (OGM, 2015), forest area in Turkey is 22,342,935 hectares, this figure includes 28.6% of the country. There are approximately 150 species of trees in the forests. The members (twenty species of nine genera of two families) of Cupressales order comprises of approximately 5% of the total forest area in Turkey. Among them, alone Juniper (*Juniperus* spp.) with 958.423 hectares covers the largest area.

In this work, longicorn beetle species-group taxa known from Turkey associated with the members of Cupressaceae and Taxaceae families (Cupressales order) in Turkey and the other countries worldwide are presented. Each different species-group taxon is presented under the scientific name of the plant species based on available references and personal data. In the text, plant taxa distributed in Turkey are shown underlined in order to distinguish them from others. According to Özdikmen (2021a) and Danilevsky (2022) chiefly, the range in the World of each different species-group taxon of longicorn beetles in Turkey is also given under the scientific name with the abbreviations of countries and regions in the list at the end. Mainly Svacha & Danilevsky (1987, 1988, 1989), Cherepanov (1990a,b,c,d; 1991a,b), Bense (1995), Özdikmen (2013a,b, 2021b,c, 2022a,b), Hoskovec et al. (2022), Tavakilian (2022) and also Cerambycidae database of the author were used to determine of the host plants of each species-group taxon.

The species-group taxa from Turkey, of which larval developments are directly in the members of Cupressaceae and Taxaceae (Cupressales), only are given below. It should not be forgotten that adults of species other than those given in the members of Cupressaceae and Taxaceae (Cupressales) may also be encountered. These species are not actually Cupressales's species, but guest species. Therefore, these species are not mentioned in the present work.

Munis Entomology & Zoology
https://www.munisentzool.org/
ISSN 1306-3022

Mun. Ent. Zool. 18 (1)
(January, 2023)
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RESULTS

CUPRESSACEAE

• Giant Sequoia (*Sequoiadendron* with one species as *Sequoiadendron giganteum* (Lindl.) J.T.Buchholz, 1939 in Turkey)

No species

• Sequoia (*Sequoia* with one species as *Sequoia sempervirens* (D.Don) Endl., 1847 in Turkey)

No species

• Japanese Cedar (*Cryptomeria* with one species as *Cryptomeria japonica* (Thunb. ex L.f.) D.Don, 1839 in Turkey)

***Cryptomeria fortunei* Otto & Dietrich (= *japonica* D. Don)**

Spondylidinae
Spondylis buprestoides (Linnaeus, 1758)

***Cryptomeria japonica* D. Don**

Aseminae
Arhopalus rusticus rusticus (Linnaeus, 1758)
Asemum striatum (Linnaeus, 1758)
Lamiinae
Anoplophora chinensis chinensis (Forster, 1771)
Anoplophora malasiaca (Thomson, 1865)
Lepturinae
Leptura (*Leptura*) *aethiops* Poda, 1761
Spondylidinae
Spondylis buprestoides (Linnaeus, 1758)

Accordingly, as seen above, a total of 6 species-group taxa of 5 genera belonging to 4 subfamilies of longicorn beetles in Turkey are determined from two species of *Cryptomeria*.

• Chineese Thuja or Oriental Thuja (*Platycladus* with one species as *Platycladus orientalis* (L.) Franco, 1949 in Turkey)

***Platycladus orientalis* (Linnaeus) Franco**

Cerambycinae
Icosium tomentosum atticum Ganglbauer, 1882

Accordingly, as seen above, only one species-group taxon of one genus belonging to one subfamily of longicorn beetles in Turkey is determined from one species of *Platycladus*.

• Thuja (*Thuja* with two species as *Thuja occidentalis* L., 1753 and *Thuja plicata* Donn ex D.Don, 1824 in Turkey)

***Thuja occidentalis* Linnaeus**

Cerambycinae
Icosium tomentosum atticum Ganglbauer, 1882

***Thuja plicata* Donn ex D.Don**

No species

***Thuja* sp.**

Cerambycinae
Icosium tomentosum atticum Ganglbauer, 1882
Penichroa fasciata (Stephens, 1831)

Accordingly, as seen above, only two species-group taxa of two genera belonging to one subfamily of longicorn beetles in Turkey are determined at least from two species of *Thuja*.

• False Cypress (*Chamaecyparis* with two species as *Chamaecyparis lawsoniana* (A.Murray bis) Parl., 1864 and *Chamaecyparis pisifera* (Sieb. &Zucc.) Endl., 1847 in Turkey)

***Chamaecyparis lawsoniana* (A. Murray) Parlatore**

No species

***Chamaecyparis obtusa* (Siebold & Zuccarini) Endlicher**

Aseminae
Arhopalus rusticus rusticus (Linnaeus, 1758)
Spondylidinae
Spondylis buprestoides (Linnaeus, 1758)

***Chamaecyparis pisifera* Siebold & Zuccarini**

No species

Accordingly, as seen above, only two species-group taxa of two genera belonging to two subfamilies of longicorn beetles in Turkey are determined from one species of *Chamaecyparis*.

Munis Entomology & Zoology
https://www.munisentzool.org/
ISSN 1306-3022
Mun. Ent. Zool. 18 (1)
(January, 2023)
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• Cypress (*Cupressus* with three species as *Cupressus sempervirens* L., 1753, *Cupressus arizonica* Greene, 1882 and *Cupressus macrocarpa* Hartw. ex Gordon, 1849 in Turkey)

Cupressus arizonica Greene

Cerambycinae
Delagrangeus (*Delagrangeus*) *angustissimus angustissimus* Pic, 1892
Semanotus russicus russicus (Fabricius, 1776)

Cupressus macrocarpa Hartweg ex Gordon

No species

Cupressus sempervirens Linnaeus

Cerambycinae
Delagrangeus (*Delagrangeus*) *angustissimus angustissimus* Pic, 1892
Icosium tomentosum atticum Ganglbauer, 1882
Nathrius brevipennis (Mulsant, 1839)
Penichroa fasciata (Stephens, 1831)
Semanotus russicus russicus (Fabricius, 1776)
Trichoferus fasciculatus fasciculatus (Faldermann, 1837)
Lepturinae
Stictoleptura (*Stictoleptura*) *cordigera cordigera* (Fueßlins, 1775)

Cupressus sp.

Aseminae
Arhopalus rusticus rusticus (Linnaeus, 1758)
Cerambycinae
Chlorophorus (*Perderomaculatus*) *sparsus* (Reitter, 1886)
Semanotus russicus russicus (Fabricius, 1776)
Stromatium auratum (Böber, 1793)
Trichoferus fasciculatus fasciculatus (Faldermann, 1837)
Lamiinae
Exocentrus ritae Sama, 1985
Herophila tristis tristis (Linnaeus, 1767)
Spondylidinae
Spondylis buprestoides (Linnaeus, 1758)
Stenopterinae
Molorchus (*Caenoptera*) *minor minor* (Linnaeus, 1758)

Accordingly, a total of 14 species-group taxa of 14 genera belonging to 6 subfamilies of longicorn beetles in Turkey are determined at least from three species of *Cupressus*. The collective list of longicorn beetle taxa associated with the members of *Cupressus* can be presented as follows.

***Cupressus* spp.**

Aseminae
Arhopalus rusticus rusticus (Linnaeus, 1758)
Cerambycinae
Chlorophorus (*Perderomaculatus*) *sparsus* (Reitter, 1886)
Delagrangeus (*Delagrangeus*) *angustissimus angustissimus* Pic, 1892
Icosium tomentosum atticum Ganglbauer, 1882
Nathrius brevipennis (Mulsant, 1839)
Penichroa fasciata (Stephens, 1831)
Semanotus russicus russicus (Fabricius, 1776)
Stromatium auratum (Böber, 1793)
Trichoferus fasciculatus fasciculatus (Faldermann, 1837)
Lamiinae
Exocentrus ritae Sama, 1985
Herophila tristis tristis (Linnaeus, 1767)
Lepturinae
Stictoleptura (*Stictoleptura*) *cordigera cordigera* (Fueßlins, 1775)
Spondylidinae
Spondylis buprestoides (Linnaeus, 1758)
Stenopterinae
Molorchus (*Caenoptera*) *minor minor* (Linnaeus, 1758)

• Juniper (*Juniperus* with eight species as *Juniperus drupacea* Labill., 1791; *Juniperus communis* L., 1753 that is represented by two subspecies *Juniperus communis* ssp. *communis* L., 1753 and *Juniperus communis* ssp. *saxatilis* (Pall.) E.Murray, 1982; *Juniperus oxycedrus* L., 1753 that is represented only by the nominative subspecies *Juniperus oxycedrus* ssp. *oxycedrus* L., 1753; *Juniperus macrocarpa* Sibth. & Sm., 1816; *Juniperus excelsa* M.Bieb., 1800; *Juniperus foetidissima* Willd., 1806; *Juniperus phoenicea* L., 1753 and *Juniperus sabina* L., 1753 in Turkey)

***Juniperus chinensis* Linnaeus**

Aseminae
Arhopalus rusticus rusticus (Linnaeus, 1758)

***Juniperus communis* Linnaeus**

Cerambycinae
Clytus (*Clytus*) *arietis arietis* (Linnaeus, 1758)
Semanotus russicus russicus (Fabricius, 1776)
Lamiinae
Pogonocherus (*Pityphilus*) *fasciculatus fasciculatus* (Degeer, 1775)

***Juniperus drupacea* Labillardière**

Cerambycinae
Semanotus russicus russicus (Fabricius, 1776)

Munis Entomology & Zoology
https://www.munisentzool.org/
ISSN 1306-3022

Mun. Ent. Zool. 18 (1)
(January, 2023)
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Juniperus excelsa Bieberstein

Cerambycinae
Icosium tomentosum atticum Ganglbauer, 1882
Semanotus russicus russicus (Fabricius, 1776)
Lepturinae
Rhagium (*Rhagium*) *inquisitor inquisitor* (Linnaeus, 1758)
Vadonia ciliciensis K. Daniel & J. Daniel, 1891

Juniperus foetidissima Willdenow

No species

Juniperus macrocarpa Sibthorp & Smith

No species

Juniperus oxycedrus Linnaeus

Cerambycinae
Icosium tomentosum atticum Ganglbauer, 1882
Lepturinae
Vadonia ciliciensis K. Daniel & J. Daniel, 1891

Juniperus phoenicea Linnaeus

No species

Juniperus sabina Linnaeus

Cerambycinae
Delagrangeus (*Delagrangeus*) *angustissimus angustissimus* Pic, 1892

Juniperus sp.

Cerambycinae
Clytus (*Clytus*) *arietis arietis* (Linnaeus, 1758)
Delagrangeus (*Delagrangeus*) *angustissimus angustissimus* Pic, 1892
Icosium tomentosum atticum Ganglbauer, 1882
Pseudosphegesthes giglii Rapuzzi & Jeniš, 2015
Rhaphuma gracilipes (Faldermann, 1835)
Semanotus russicus russicus (Fabricius, 1776)
Lamiinae
Pogonocherus (*Pityphilus*) *fasciculatus fasciculatus* (Degeer, 1775)
Lepturinae
Anastrangalia dubia dubia (Scopoli, 1763)
Stenocorus (*Anisorus*) *heterocerus* (Ganglbauer, 1882)
Stenurella (Stenurella) melanura (Linnaeus, 1758)

Accordingly, a total of 13 species-group taxa of 13 genera belonging to 4 subfamilies of longicorn beetles in Turkey are determined at least from seven species of *Juniperus*. The collective list of longicorn beetle taxa associated with the members of *Juniperus* can be presented as follows.

Juniperus spp.

Aseminae
Arhopalus rusticus rusticus (Linnaeus, 1758)
Cerambycinae
Clytus (*Clytus*) *arietis arietis* (Linnaeus, 1758)
Delagrangeus (*Delagrangeus*) *angustissimus angustissimus* Pic, 1892
Icosium tomentosum atticum Ganglbauer, 1882
Pseudosphegesthes giglii Rapuzzi & Jeniš, 2015
Rhaphuma gracilipes (Faldermann, 1835)
Semanotus russicus russicus (Fabricius, 1776)
Lamiinae
Pogonocherus (*Pityphilus*) *fasciculatus fasciculatus* (Degeer, 1775)
Lepturinae
Anastrangalia dubia dubia (Scopoli, 1763)
Rhagium (*Rhagium*) *inquisitor inquisitor* (Linnaeus, 1758)
Stenocorus (*Anisorus*) *heterocerus* (Ganglbauer, 1882)
Stenurella (Stenurella) melanura (Linnaeus, 1758)
Vadonia ciliciensis K. Daniel & J. Daniel, 1891

TAXACEAE

• Yews (*Taxus* with one species as *Taxus baccata* L., 1753 in Turkey)

Taxus baccata Linnaeus

Cerambycinae
Trichoferus fasciculatus fasciculatus (Faldermann, 1837)
Lepturinae
Stictoleptura (*Aredolpona*) *rubra rubra* (Linnaeus, 1758)

Accordingly, as seen above, only two species-group taxa of two genera belonging to two subfamilies of longicorn beetles in Turkey are determined from one species of *Taxus*.

CONCLUSIONS

As a result, as seen in the list presented below, the members of Cupressaceae family are preferred by a total of 27 species or species-group taxa (of 26 genera in 6 subfamilies) of longicorn beetles of Turkey. This figure includes 2.62% of the total longicorn beetle fauna of Turkey, while the members (twenty species of nine genera of two families) of Cupressales order comprises of approximately 5% of the total forest area in Turkey. According to the present study, any longicorn beetle taxon has not been determined from a total of 9 species as *Sequoiadendron giganteum* (Lindl.) J.T.Buchholz, *Sequoia sempervirens* (D.Don) Endl., *Thuja*

Munis Entomology & Zoology
https://www.munisentzool.org/
ISSN 1306-3022

Mun. Ent. Zool. 18 (1)
(January, 2023)
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plicata Donn ex D.Don, *Chamaecyparis lawsoniana* (A. Murray) Parlatore, *Chamaecyparis pisifera* Siebold & Zuccarini, *Cupressus macrocarpa* Hartweg ex Gordon, *Juniperus foetidissima* Willdenow, *Juniperus macrocarpa* Sibthorp & Smith and *Juniperus phoenicea* Linnaeus of 19 species of Cupressaceae family in Turkey up to now. This situation is in agreement with the mentioned result. Among the longicorn beetles associated with the members of Cupressaceae family, only three species or species-group taxa as *Delagrangeus* (*Delagrangeus*) *angustissimus angustissimus* Pic, 1892, *Pseudosphegesthes giglii* Rapuzzi & Jeniš, 2015 and *Vadonia ciliciensis* K. Daniel & J. Daniel, 1891 are endemic to Turkey. However, the member of Taxaceae family is preferred only by two species or species-group taxa of longicorn beetles of Turkey.

A list of longicorn beetles associated with the members of Cupressales order in Turkey

CUPRESSACEAE

Aseminae

***Arhopalus rusticus rusticus* (Linnaeus, 1758)**
E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT LU MC MD NL NR NT PL RO SK SL SP ST SV SZ TR UK **N:** MO **A:** AB AR ES FE FUJ GAN GG GUI HAI HEB HEI HUB IN JA JIL JIX KZ LIA MG NMO NC SC SCH SHA SHN TD TR WS YUN ZHE **AUSi NTRi**

***Asemum striatum* (Linnaeus, 1758)**
E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT LU MD NL NR NT PL RO SK SL SP ST SV SZ UK **A:** AB AR BEI ES FE GAN GG HEB HEI HUB JIL KI KZ LIA MG NC NIN NMO QIN SC SCH SHA SHN SHX WS TIA TR XIN YUN ZHE **NAR NTR**

Cerambycinae

***Chlorophorus* (*Perderomaculatus*) *sparsus* (Reitter, 1886)**
E: GR **A:** SY TR

***Clytus* (*Clytus*) *arietis arietis* (Linnaeus, 1758)**
E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT LU MC MD ME NL NR NT PL PT RO SB SK SL SP ST SV SZ TR UK **N:** MR **A:** TR

***Delagrangeus* (*Delagrangeus*) *angustissimus angustissimus* Pic, 1892**
A: TR

***Icosium tomentosum atticum* Ganglbauer, 1882**
E: BH BU CR CY FRi GR IT MA **A:** AB CY JO IS LE SY TR

***Nathrius brevipennis* (Mulsant, 1839)**
E: AU AZ BE BH BU CR CZ DEi FIi GB GE HU IR IT MA MC MD ME NL NRi PL PT RO SB SK ST SL SP SVi ?SZ TR UK **N:** AG EG LB MO TU **A:** AB AR GG IN IS KZ LE SHX SY TR NARi NTRi

***Penichroa fasciata* (Stephens, 1831)**
E: AL BH BU CR FR GR IT MA MC ME PT SB SL SP ST TR UK **N:** AG LB MO TU **A:** AB AR CY GG IN IS SY TR

***Pseudosphegesthes giglii* Rapuzzi & Jeniš, 2015**
A: TR

***Rhaphuma gracilipes* (Faldermann, 1835)**
E: BY CT ?LT NT PL ?RO ST ?UK **A:** BEI ES FE HEI JIL KZ MG NC NMO SC TR WS

***Semanotus russicus russicus* (Fabricius, 1776)**
E: AL AU BU CR CZ GB GR HU IT RO SB SK ST UK **A:** AB AR GG JO LE SY TR

***Stromatium auratum* (Böber, 1793)**
E: AL BH BU CR FR GR HU IT MA MC ME PT RO SB SP ST TR UK **N:** AG MO TU LB **A:** AB AR CY GG IN IQ IS JO LE SY TM TR

***Trichoferus fasciculatus fasciculatus* (Faldermann, 1837)**
E: AL BU CR FR GR IT MA ME PT RO SB SP UK **N:** AG EG LB MO TU **A:** AB AR CY GG IN IQ IS JO LE SY TR

Lamiinae

***Anoplophora chinensis chinensis* (Forster, 1771)**
Ei: AU CR FR GE IT NL TR **A:** ANH FUJ GAN GUA GUI GUX HAI HEB HEN HKG HUB HUN JIA JIL JIX LIA SC SCH SHA SHN SHX TAI TRi YUN ZHE **ORR**

***Anoplophora malasiaca* (Thomson, 1865)**
Ei: AU CR CZ GE IT NL **A:** CH JA NC SC TRi

***Exocentrus ritae* Sama, 1985**
A: SY TR

***Herophila tristis tristis* (Linnaeus, 1767)**
E: AL AU BH BU CR FR GR HU IT MC ME RO SB SL SZ TR **A:** TR

***Pogonocherus* (*Pityphilus*) *fasciculatus fasciculatus* (Degeer, 1775)**
E: AL AU BE BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT KZ LA LS LT LU MA MC MD ME NL NR NT PL RO SB SK SL SP ST SV SZ UK **N:** MR **A:** AB AR ES FE GG HEI KZ MG ?NC NE SC TR WS XIZ

Lepturinae

***Anastrangalia dubia dubia* (Scopoli, 1763)**
E: AL AN AU BH BU ?BY CR CZ FR GE GR HU IT LS LT MC ME PL RO SB SK SL SP SZ UK **N:** AG **A:** TR

***Leptura* (*Leptura*) *aethiops* Poda, 1761**
E: AL AU BE BH BY CH CT CZ DE EN FR GE GR HU IT LA LS LT LU MD NL NT PL RO SB SK SL SP ST SZ TR UK **A:** ?AR ?AB ES FE FUJ ?GG GUX HEB HEI JA JIL JIX KZ MG NC QIN SC SHA TR WS YUN

***Rhagium* (*Rhagium*) *inquisitor inquisitor* (Linnaeus, 1758)**
E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT MD ME NE NL NR NT PL PT RO SB SK SL SP ST SV SZ TR UK **A:** ES KZ MG TR WS

***Stenocorus* (*Anisorus*) *heterocerus* (Ganglbauer, 1882)**
A: SY TR

***Stenurella (Stenurella) melanura* (Linnaeus, 1758)**
E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT LU MC MD ME NL NT NR PL PT RO SB SK SL SP ST SV SZ TR UK **A:** ?GG ?AR ?AB ES FE JA KZ MG TR WS XIN

***Stictoleptura* (*Stictoleptura*) *cordigera cordigera* (Fueßlins, 1775)**
E: BE BU DE FR GB GE GR (north-east) IT NL RO SP SZ RO ST TR UK **N:** LB **A:** AB AR CY GG IN IQ IS LE SY TR

***Vadonia ciliciensis* K. Daniel & J. Daniel, 1891**
A: TR

Spondylidinae

***Spondylis buprestoides* (Linnaeus, 1758)**
E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IT LA LT LU MC MD ME NL NR NT PL PT RO SB SK ST SL SP SV SZ UK **N:** MO **A:** AB ANH AR ES FE FUJ GG GUA GUI HAI HEB HEI HEN HKG HUB JA JIA JIX KZ MG NMO NC SC SCH SHA TAI TR WS YUN ZHE

Stenopterinae

***Molorchus* (*Caenoptera*) *minor minor* (Linnaeus, 1758)**
E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT LU MD ME NL NR NT PL RO SB SK SL SP ST SV SZ UK **A:** BEI ES FE GAN GG HEI LIA KZ MG NC QIN SC SHA TR WS XIN **NTRi**

Munis Entomology & Zoology
https://www.munisentzool.org/
ISSN 1306-3022

Mun. Ent. Zool. 18 (1)
(January, 2023)
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TAXACEAE

Cerambycinae

***Trichoferus fasciculatus fasciculatus* (Faldermann, 1837)**

E: AL BU CR FR GR IT MA ME PT RO SB SP UK **N:** AG EG LB MO TU **A:** AB AR CY GG IN IQ IS JO LE SY TR

Lepturinae

***Stictoleptura* (*Aredolpona*) *rubra rubra* (Linnaeus, 1758)**

E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT LU MD ME NL NR NT PL PT RO SB SK SL SP ST SV SZ TR UK **A:** ES KZ TR WS

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