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LONGICORN BEETLES OF CONIFEROUS FORESTS IN TURKEY: PART IV. LAMIINAE (COLEOPTERA: CERAMBYCIDAE)

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ABSTRACT: Cerambycidae of coniferous forests in Turkey are reviewed and a full list of them are presented with a serial work which includes 4 parts. In this part (Part IV), a total of 33 species-group taxa which comprise of approximately 3% of Cerambycidae fauna of Turkey, belonging to 13 genera of Lamiinae subfamily are presented from coniferous forests in Turkey. Among them, three species-group taxon is endemic to Turkey. Type information, body length, adult period, host plants and range in Turkey and the World for each different species-group taxon are given in the text. The provincial and regional distribution patterns of each different species-group taxon are also presented on a map. On the other side, an evaluation on all Cerambycidae of coniferous forests in Turkey and a complete list are provided in an appendix.

KEY WORDS: Cerambycidae, Lamiinae, coniferous forest, Turkey

The present study is the fourth part of a serial work planned on longicorn beetles of coniferous forests in Turkey. Introduction and format for the present study was given by Özdikmen (2021) in the first part.

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Genus *ACANTHOCINUS* Dejean, 1821: 106
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Superfamily CERAMBYCOIDEA Latreille, 1802

Family CERAMBYCIDAE Latreille, 1802

Subfamily LAMIINAE Latreille, 1825

Tribe PARMENINI Mulsant, 1839

Genus *PARMENA* Dejean, 1821: 108 [type species *Lamia unifasciata* Rossi, 1790]

pontocircassica Danilevsky & Miroshnikov, 1985: 289

Type information. *Parmena pontocircassica* Danilevsky & Miroshnikov, 1985: 289 (Holotype ♂, Collection of Zoological Institute of the Russian Academy of Sciences, Saint-Petersbourg) [type locality "Krasnodar: Lazarevskoïe, Tikhonovka" (Russia)]
Body length. 5-7.5 mm.
Adult period. March, May-September.
Hosts. Probably polyphagous. Deciduous trees (*Castanea*) and coniferous trees (*Abies*). In Turkey, this species has been reported on *Castanea, Abies nordmanniana.*
Records in Turkey. TR-A: Artvin, Giresun provinces.

Range: E: ST UK (Crimea) **A:** AB AR GG TR

Literatures. [Sama, 1994, 1996; Tauzin, 2000; Özdikmen, 2007; Şabanoğlu, 2019**]**.

striatopunctata Sama, 1994: 553 (ENDEMIC)

Type information. *Parmena striatopunctata* Sama, 1994: 553 (Holotype ♂, collection Gianfranco Sama, Cesena) [type locality "Ardanuç" (Turkey: Artvin)]
Body length. 5-9 mm.
Adult period. June-August.
Hosts. Coniferous trees (*Abies*) and also deciduous trees (*Castanea, Malus*). This species has been reported on *Abies nordmanniana*.
Records in Turkey. TR-A: Artvin, Kastamonu, Rize provinces.

Range: A: TR

Literatures. [Sama, 1994, 1996; Tauzin, 2000; Özdikmen, 2007; Danilevsky, 2017; Tezcan et al., 2020**]**.

Tribe MESOSINI Mulsant, 1839

Genus *MESOSA* Latreille, 1829: 124 [type species *Cerambyx curculionoides* Linnaeus, 1760]

Subgenus *MESOSA* Latreille, 1829: 124 [type species *Cerambyx curculionoides* Linnaeus, 1760]

curculionoides Linnaeus, 1760: 193 (*Cerambyx*)

Type information. *Cerambyx curculionoides* Linnaeus, 1760: 193 (Holotype, ex collection Adolf Modeer > Anders Sparrmann > Paykull, Naturhistoriska Riksmuseet, Stockholm) [type locality "Kalmar" (Sweden)]
Body length. 10-17 mm.
Adult period. April-October.
Hosts. Deciduous trees (*Quercus*, *Castanea*, *Carpinus*, *Juglans*, *Tilia*, *Corylus*, *Ulmus*, *Prunus* etc.) strongly preferred and coniferous trees (*Abies*). In Turkey, this species has been reported on *Juglans regia, Abies nordmanniana*.
Records in Turkey. TR-A: Ankara, Antalya, Düzce, İçel, Tokat provinces; **TR-E:** Kırklareli province.

Range: E: AL AU BH BU BY CR CT CZ FR GE GR HU IT ?LA LT MC MD ME NR PL PT RO SB SK SL SP ST SV SZ TR UK **A:** AB AR GG IN TR

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Literatures. [Pic, 1904; Danilevsky & Miroshnikov, 1985; Adlbauer, 1992; Althoff & Danilevsky, 1997; Lodos, 1998; Sama, 2002; Özdikmen & Turgut, 2006; Özdikmen, 2007, 2008a, 2011a, 2021a; Özdikmen et al., 2012; Özdikmen & Tezcan, 2020a**]**.

Tribe MONOCHAMINI Gistel, 1848

Genus *MONOCHAMUS* Dejean, 1821: 106 [type species *Cerambyx sutor* Linnaeus, 1758]

Subgenus *MONOCHAMUS* Dejean, 1821: 106 [type species *Cerambyx sutor* Linnaeus, 1758]

galloprovincialis Olivier, 1795: No. 67: 125 (*Cerambyx*)

Type information. *Cerambyx gallo-provincialis* Olivier, 1795: No. 67: 125 (Holotype ♂, ex collection Guillaume-Antoine Olivier) [type locality "Provence" (France)]
Body length. 12-26 mm.
Adult period. April-September.
Hosts. Coniferous trees (*Pinus, Picea, Larix*). In Turkey, this species has been reported on *Pinus sylvestris, Pinus nigra, Pinus brutia, Pinus halepensis, Picea orientalis.*
Records in Turkey. TR-A: Adana, Antalya, Artvin, Aydın, Bolu, Bursa, Çanakkale, Denizli, Isparta, İçel, Kahramanmaraş, Karabük, Kars, Kastamonu, Konya, Muğla, Niğde, Ordu, Osmaniye, Samsun, Sinop, Tokat, Trabzon provinces; **TR-E:** İstanbul province.

galloprovincialis pistor Germar, 1818: 242 (*Lamia*)

Type information. *Lamia pistor* Germar, 1818: 242 (Syntypes (2) ♂ & ♀, ex collection Germar, Museum für Naturkunde - Leibniz Institute for Evolution and Biodiversity Science, Berlin) [type locality "Curland" (Latvia)]
Records in Turkey. TR-E: İstanbul province.

E: AL AU BH BU BY CR CT CZ DE EN FI FR GE GR HU IT LA LT MC MD ME NL NT PL RO SB SK SL ST SV SZ TR UK **A:** KI KZ WS

galloprovincialis tauricola Pic, 1912: 18

Type information. *Monochamus galloprovincialis* var. *tauricola* Pic, 1912g: 18 (Holotype, ex collection M. Pic, Muséum National d'Histoire Naturelle, Paris) [type locality "Cilician Taurus" (Turkey)]
Records in Turkey. TR-A: Adana, Antalya, Aydın, Bolu, Bursa, Çanakkale, Denizli, Isparta, İçel, Kahramanmaraş, Karabük, Kastamonu, Konya, Muğla, Niğde, Ordu, Osmaniye, Samsun, Sinop, Tokat, Trabzon provinces.

Range: A: JO SY TR

galloprovincialis transitivus Lazarev, 2017: 18

Type information. *Monochamus galloprovincialis transitivus* Lazarev, 2017: 18 (Holotype ♂, Zoological Museum, University of Moscow) [type locality "Borzhomi env." (Georgia)] **Records in Turkey. TR-A:** Artvin, Kars provinces.

Range: E: ST **A:** AB AR GG TR

Literatures. [Pic, 1912; Schimitschek, 1944; Erdem, 1947, 1968; Acatay, 1948, 1961, 1968; Demelt & Alkan, 1962; Demelt, 1963; Tosun, 1975; Erdem & Çanakçıoğlu, 1977; Sekendiz, 1981; Çanakçıoğlu, 1983; Danilevsky & Miroshnikov, 1985; Öymen, 1987; Önder et al., 1987; Adlbauer, 1992; Yüksel, 1996; Lodos, 1998; Alkan, 2000; Alkan & Eroğlu, 2001; Tozlu, 2001; Sama, 2002; Tozlu et al., 2003; Özdikmen et al., 2005; Özdikmen & Demirel, 2005; Özdikmen & Şahin, 2006; Özdikmen, 2006, 2007, 2008a,b, 2011a,b, 2021b; Turgut & Ozdikmen, 2010; Sama et al., 2012; Yardibi & Tozlu, 2013; Küçükkaykı et al., 2013; Cihan et al., 2013; Şabanoğlu & Şen, 2016; Albayati et al., 2016; Lazarev, 2017; Varlı et al., 2019; Tezcan et al., 2020; Özdikmen & Tezcan, 2020a**]**.

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***sartor* Fabricius, 1787: 137** (*Lamia*)

Type information. *Lamia sartor* Fabricius, 1787: 137 (Syntypes (3), ex Musaeo Dom Zschuck > J. C. Fabricius, Zoologisk Museum, Copenhague) [type locality "Saxe: Dresden" (Germany)]
Body length. 19-35 mm.
Adult period. June-September.
Hosts. Coniferous trees (*Picea,* rarely *Pinus, Abies, Larix*). In Turkey, this species has been reported on *Picea orientalis, Pinus nigra*.

***sartor sartor* Fabricius, 1787: 137** (*Lamia*)

Records in Turkey. TR-A: Artvin, Balıkesir, Giresun, Karabük, Ordu, Rize, Trabzon provinces.

E: AU BH BU BY CR CZ FR GB GE HU IT LS PL RO SK SL SZ UK **A:** TR

Literatures. [Acatay, 1948, 1961, 1968; Besçeli, 1969; Öymen, 1987; Yüksel, 1996; Lodos, 1998; Özdikmen, 2007, 2008a, 2021b; Bahadıroğlu et al., 2009**]**.

Tribe LAMIINI Latreille, 1825

Genus ***HEROPHILA* Mulsant, 1863: 273** [type species *Dorcadion fairmairei* J. Thomson, 1857]

***tristis* Linnaeus, 1767: 629** (*Cerambyx*)

Type information. *Cerambyx tristis* Linnaeus, 1767: 629 (Holotype, ex collection C. Linnaeus, Zoologiska Institutionen, Uppsala) [type locality "Montpellier" (France)]
Body length. 13-26 mm.
Adult period. March-July.
Hosts. Polyphagous. Deciduous trees (*Acer, Robinia, Ficus, Morus, Fraxinus, Populus, Salix, Ulmus, Juglans*), shrubs and herbs (*Artemiasia, Onopordum, Sambucus, Dianthus, Astragalus, Melilotus, Tamarix, Paeonia*), and also reported from coniferous trees (*Cupressus*). In Turkey, this species has been reported on *Ficus carica*.

***tristis tristis* Linnaeus, 1767: 629** (*Cerambyx*)

Records in Turkey. TR-A: Aydın, Çanakkale, İstanbul, İzmir provinces; **TR-E:** Kırklareli province.

Range: E: AL AU BH BU CR FR GR HU IT MC ME RO SB SL SZ TR **A:** TR

Literatures. [Fairmaire, 1859; Gül-Zümreoğlu, 1975; Öymen, 1987; Althoff & Danilevsky, 1997; Lodos, 1998; Sama, 2002; Özdikmen, 2008a,b**].**

Genus *MORIMUS* Brullé, 1832: 258 [type species *Lamia lugubris* Fabricius, 1793 (= *Cerambyx asper* Sulzer, 1776)]

***orientalis* Reitter, 1894: 43**

Type information. *Morimus orientalis* Reitter, 1894: 43 (Syntypes 2 ♂♂, ex collection Edmund Reitter, Magyar Természettudományi Mûzeum, Budapest) [type locality "Kleinasien" (Turkey)]
Body length. 16-38.5 mm.
Adult period. May-July.
Hosts. Deciduous trees (*Castanea, Quercus, Fagus, Populus, Prunus*) and rarely coniferous trees (*Pinus, Abies*) and also shrubs (*Vitis*). In Turkey, this species has been reported on *Quercus conferta, Castanea sativa, Pinus maritima, Abies*.
Records in Turkey. TR-A: Amasya, Ankara, Antalya, Balıkesir, Bartın, Bilecik, Bolu, Burdur, Bursa, Çanakkale, Çankırı, Denizli, Düzce, Eskişehir, Isparta, İçel, İstanbul, İzmir, Karabük, Kahramanmaraş, Kocaeli, Kütahya, Manisa, Sakarya, Sinop, Tokat provinces; **TR-E:** İstanbul, Kırklareli provinces.

Range: E: BU TR **A:** TR

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Literatures. [Reitter, 1894; Bodemeyer, 1900, 1906; Schimitschek, 1944; Acatay, 1948, 1961, 1968; Demelt & Alkan, 1962; Demelt, 1963; İren & Ahmed, 1973; Sekendiz, 1974; Çanakçıoğlu, 1983; Önder et al., 1987; Öymen, 1987; Adlbauer, 1992; Bringmann, 1996; Althoff & Danilevsky, 1997; Lodos, 1998; Kanat, 1998; Sama, 2002; Tozlu et al., 2003; Özdikmen & Hasbenli, 2004; Özdikmen et al., 2005; Özdikmen & Demirel, 2005; Özdikmen, 2006, 2007, 2008a,b, 2011a, 2021a,b,c; Özdikmen & Şahin, 2006; Özdikmen & Demir, 2006; Özdikmen et al., 2009; Okutaner et al., 2011; Özdikmen, 2011b; Özdikmen et al., 2012; Şenyüz & Özdikmen, 2013; Küçükkaykı et al., 2013; Cihan et al., 2013; Al-Hamadani & Özdikmen, 2014; Georgiev et al., 2015; Tekin & Özdikmen, 2015; Şabanoğlu & Şen, 2016; Albayati et al., 2016; Varlı et al., 2019; Tezcan et al., 2020; Özdikmen & Tezcan, 2020a**]**.

***verecundus* Faldermann, 1836: 396** (*Lamia*)

Type information. *Lamia verecunda* Faldermann, 1836: 396 (Holotype, ex collection Faldermann, Collection of Zoological Institute of the Russian Academy of Sciences, Saint-Petersbourg) [type locality "Caucasus"]
Body length. 15-38 mm.
Adult period. April-August.
Hosts. Deciduous trees (*Fagus, Quercus, Carpinus, Juglans, Ficus, Alnus*) and coniferous trees (*Picea, Pinus*). In Turkey, this species has been reported on *Fagus orientalis, Quercus, Picea orientalis, Pinus sylvestris*.

***verecundus verecundus* Faldermann, 1836: 396** (*Lamia*)

Records in Turkey. TR-A: Artvin, Balıkesir, Erzurum, Giresun, Gümüşhane, Kastamonu, Rize, Samsun, Sinop, Trabzon provinces.

Range: E: ST UK (Crimea) **A:** AB AR GG IN TM TR

Literatures. [Schimitschek, 1944; Villiers, 1959; Demelt, 1963; Breuning et Villiers, 1967; Özbek, 1978; Sekendiz, 1981, 1991; Sama, 1982; Danilevsky & Miroshnikov, 1985; Öymen, 1987; Alkan, 2000; Sama, 2002; Tozlu et al., 2003; Özdikmen, 2006, 2007, 2021a,c; Özdikmen & Şahin, 2006; Varlı et al., 2019; Tezcan et al., 2020; Özdikmen & Tezcan, 2020a**]**.

Genus *LAMIA* Fabricius, 1775: 170 [type species *Cerambyx textor* Linnaeus, 1758]

***textor* Linnaeus, 1758: 392** (*Cerambyx*)

Type information. *Cerambyx textor* Linnaeus, 1758: 392 (Syntypes, ex collection C. Linnaeus, Zoologiska Institutionen, Uppsala) [type locality "Suecia" (Sweden)]
Body length. 14-33 mm.
Adult period. April-October.
Hosts. Deciduous trees (*Populus, Salix, Quercus, Morus, Betula, Alnus*), and also reported from coniferous trees (*Abies, Larix, Picea, Pinus*). In Turkey, this species has been reported on *Populus*.
Records in Turkey. TR-A: Sakarya, Trabzon provinces; **TR-E:** ?Edirne province.

Range: E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LT LU MC MD ME NL NR NT PL RO SB SK SL SP ST SV SZ TR UK **A:** AB AR ES FE GG HEB HEI JA JIL KZ MG NC NMO SC SHN WS XIN

Literatures. [Acatay, 1948, 1961, 1963, 1968; Sekendiz, 1981; Öymen, 1987; Althoff & Danilevsky, 1997; Özdikmen, 2007, 2008a, 2021a,b; Tezcan et al., 2020**]**.

Tribe APODASYINI Lacordaire, 1872

Genus *DEROPLIA* Dejean, 1835: 348 [type species *Saperda genei* Aragona, 1830]

***troberti* Mulsant, 1843: 283** (*Stenidea*)

Type information. *Stenidea troberti* Mulsant, 1843: 283 (Holotype ♂, ex collection Étienne Mulsant, Muséum National d'Histoire Naturelle, Paris) [type locality "Algeria"]

***troberti orientalis* Özdikmen & Tezcan, 2020: 423** (ENDEMIC)

Type information. *Deroplia troberti orientalis* Özdikmen & Tezcan, 2020: 423 (Holotype ♂, Lodos Entomological Museum, Turkey (İzmir)) [type locality "Muğla" (Turkey)]
Body length. 10.25 mm.
Adult period. April.

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Hosts. Coniferous trees (*Pinus*).
Records in Turkey. TR-A: Muğla province.

Range: A: TR

Literatures. [Özdikmen & Tezcan, 2020a; Özdikmen, 2021b**]**.

Tribe POGONOCHERINI Mulsant, 1839

Genus *PARMENOPSIS* Ganglbauer, 1882: 693 [type species *Parmena caucasica* Leder, 1880]

caucasica Leder, 1880: 484 (*Parmena*)

Type information. *Parmena balteus* var. *caucasica* Leder, 1880: 484 (Holotype, ex collection E. Reitter, Magyar Természettudományi Mûzeum, Budapest) [type locality "Suram" (Georgia)]
Body length. 3-6 mm.
Adult period. May-September.
Hosts. Deciduous trees (*Castanea, Alnus, Corylus*) and coniferous trees (*Abies*) and also shrubs (*Rhododendron*). In Turkey, this species has been reported on *Abies nordmanniana, Castanea sativa, Rhododendron ponticum*.
Records in Turkey. TR-A: Artvin province.

Range: E: ST **A:** GG TR

Literatures. [Sama, 1982; Danilevsky & Miroshnikov, 1985; Sama, 1994; Lodos, 1998; Tauzin, 2000; Özdikmen, 2007; Tezcan et al., 2020**]**.

Genus *POGONOCHERUS* Dejean, 1821: 107 [type species *Cerambyx hispidus* Linnaeus, 1758]

Subgenus *POGONOCHERUS* Dejean, 1821: 107 [type species *Cerambyx hispidus* Linnaeus, 1758]

anatolicus K. Daniel & J. Daniel, 1898: 76

Type information. *Pogonocherus anatolicus* K. Daniel & J. Daniel, 1898: 76 (Holotype ♀, ex collection K. Daniel, National Museum of Natural History (Smithsonian) [type locality "Adalia" (Turkey: Antalya)]
Body length. 4-6 mm.
Adult period. March-July.
Hosts. Coniferous trees (*Pinus*). In Turkey, this species has been reported on *Pinus pinea, Pinus halepensis, Pinus brutia*.
Records in Turkey. TR-A: Antalya, Hatay, İçel provinces.

Range: E: GR (Rodos) **A:** CY LE SY TR

Literatures. [Daniel & Daniel, 1898; Schimitschek, 1944; Demelt, 1963; Breuning, 1975; Tosun, 1975; Öymen, 1987; Adlbauer, 1988; Lodos, 1998; Tauzin, 2000; Özdikmen & Şahin, 2006; Özdikmen, 2011a, 2021b; Lingafelter et al., 2014**]**.

barbarae Rapuzzi & Sama, 2012: 678

Type information. *Pogonocherus barbarae* Rapuzzi & Sama, 2012: 678 (Holotype ♂, collection Gianfranco Sama, Cesena) [type locality "Amanos Mts.: Dörtyol: Topaktaş village" (Turkey: Hatay)]
Body length. 8 mm.
Adult period. June-August.
Hosts. Coniferous trees (*Pinus*). In Turkey, this species has been reported on *Pinus nigra*.
Records in Turkey. TR-A: Hatay province.

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Range: A: SY TR

Literatures. [Rapuzzi & Sama, 2012; Sama et al., 2012 ; Özdikmen, 2021b**]**.

eugeniae Ganglbauer, 1891: 131

Type information. *Pogonocherus eugeniae* Ganglbauer, 1891: 131 (Syntypes ♀♀, ex collection L. Ganglbauer, Naturhistorisches Museum Wien) [type locality "Rekawinkel" (Austria)]
Body length. 7-9 mm.
Adult period. May-July.
Hosts. Coniferous trees (*Abies, Pinus*).

eugeniae eugeniae Ganglbauer, 1891: 131

Records in Turkey. TR-E: İstanbul province.

Range: E: AL AU BH CR CZ GR IT RO TR

Literatures. [Özdikmen et al., 2010; Özdikmen, 2021b**]**.

hispidulus Piller & Mitterpacher, 1783: 35 (*Cerambyx*)

Type information. *Cerambyx hispidulus* Piller & Mitterpacher, 1783: 35 (Holotype, Magyar Természettudományi Mûzeum, Budapest) [type locality "Poseganam" (Hungary)]
Body length. 5-9 mm.
Adult period. March-August.
Hosts. Coniferous trees (*Pinus, Picea*) and deciduous trees (*Carpinus, Ostrya, Cornus, Corylus, Castanea, Fagus, Quercus, Juglans, Crataegus, Malus, Populus, Tilia, Ulmus*) and also shrubs (*Viburnum, Rhamnus*). In Turkey, this species has been reported on *Pinus brutia, Picea orientalis.*
Records in Turkey. TR-A: Artvin, Bolu, İstanbul, Ordu, Tokat, Trabzon provinces; **TR-E:** İstanbul province.

Range: E: AL AU BE BH BU BY CR CT CZ EN FR GR HU IR IT LA LS LT LU MC MD ME NL NT PL PT RO SB SK SL SP ST SZ UK **A:** AB AR GG KZ TR

Literatures. [Acatay, 1943; Öymen, 1987; Adlbauer, 1992; Yüksel, 1996; Lodos, 1998; Sama, 2002; Özdikmen, 2007, 2008a, 2021a,b**]**.

hispidus Linnaeus, 1758: 391 (*Cerambyx*)

Type information. *Cerambyx hispidus* Linnaeus, 1758: 391 (Lectotype ♀, ex collection C. Linnaeus, Zoologiska Institutionen, Uppsala) [type locality "Suecia" (Sweden)]
Body length. 4-6.5 mm.
Adult period. April-October.
Hosts. Coniferous trees (*Picea*) and many deciduous trees and also shrubs. In Turkey, this species has been reported on *Picea orientalis*.
Records in Turkey. TR-A: Artvin, Trabzon provinces.

Range: 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 UK **N:** AG TU **A:** AB AR GG TR

Literatures. [Acatay, 1948, 1961, 1968; Yüksel, 1996; Lodos, 1998; Özdikmen et al., 2005; Özdikmen, 2007, 2008a, 2021a; Özdikmen & Tezcan, 2020a**]**.

perroudi Mulsant, 1839: 158

Type information. *Pogonocherus perroudi* Mulsant, 1839: 158 (Lectotype ♂, ex collection E. Mulsant, Muséum National d'Histoire Naturelle, Paris) [type locality "Bordeaux, Draguignan" (France)]
Body length. 4-8 mm.

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Adult period. April-August.
Hosts. Coniferous trees (*Pinus*). In Turkey, this species has been reported on *Pinus halepensis, Pinus nigra, Pinus sylvestris, Pinus brutia*.

***perroudi perroudi* Mulsant, 1839: 158**

Records in Turkey. TR-A: Amasya, Antalya, Aydın, Balıkesir, Bursa, Çanakkale, Hatay, İçel, İstanbul, İzmir, Karabük, Kars, Osmaniye provinces; **TR-E:** İstanbul, Kırklareli provinces.

Range: E: AL BH BU CR FR GR IT SP ST TR UK **N:** AG EG MO TU **A:** GG CY IS LE TR

Literatures. [Fairmaire, 1884; Schimitschek, 1944; Gül-Zümreoğlu, 1975; Öymen, 1987; Adlbauer, 1988; Lodos, 1998; Tozlu, 2001; Sama, 2002; Tozlu et al., 2003; Özdikmen & Şahin, 2006; Özdikmen, 2007, 2008a,b, 2011a, 2021b; Cihan et al., 2013; Varlı et al., 2019; Tezcan et al., 2020**]**.

***sieversi* Ganglbauer, 1887: 139** (*Pogonochaerus*)

Type information. *Pogonochaerus sieversi* Ganglbauer, 1887b: 139 (Holotype, ex collection L. Ganglbauer, Naturhistorisches Museum Wien) [type locality "Tbilissi: Manglisi" (Georgia)]
Body length. 4-8 mm.
Adult period. April-October.
Hosts. Coniferous trees (*Picea, Abies*). In Turkey, this species has been reported on *Abies nordmanniana, Picea orientalis.*
Records in Turkey. TR-A: Ardahan, Artvin, Gümüşhane, Rize, Trabzon provinces.

Range: ?E: ?UK **A:** AR GG TR

Literatures. [Danilevsky & Miroshnikov, 1985; Adlbauer, 1988; Tozlu et al., 2003; Özdikmen, 2007**]**.

Subgenus *PITYPHILUS* Mulsant, 1863: 302 [type species *Cerambyx ovatus* Goeze, 1777]

decoratus Fairmaire, 1855: 320

Type information. *Pogonocherus decoratus* Fairmaire, 1855: 320 (Syntypes (2), ex collection Léon Fairmaire, Muséum National d'Histoire Naturelle, Paris) [type locality "Hautes-Pyrénées" (France)]
Body length. 4-6 mm.
Adult period. March-October.
Hosts. Coniferous trees (*Pinus, Picea, Abies*) and also deciduous trees (*Corylus*). In Turkey, this species has been reported on *Pinus*.
Records in Turkey. TR-A: Ankara, Çankırı, Erzincan, Kastamonu, Muğla provinces; **TR-E:** İstanbul province.

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

Literatures. [Demelt, 1967; Adlbauer, 1992; Lodos, 1998; Sama, 2002; Sama et al., 2012; Albayati et al., 2016; Özdikmen, 2007, 2008a, 2019, 2021b; Özdikmen & Tezcan, 2020a**]**.

fasciculatus DeGeer, 1775: 71 (*Cerambyx*)

Type information. *Cerambyx fasciculatus* DeGeer, 1775: 71 (Holotype, ex collection Carl Degeer, Naturhistoriska Riksmuseet, Stockholm) [type locality "Sweden"]
Body length. 5-8 mm.
Adult period. March-October.
Hosts. Coniferous trees (*Picea, Pinus, Abies, Juniperus, Larix, Pseudotsuga*) preferred and deciduous trees (*Castanea, Ficus*). In Turkey, this species has been reported on *Picea orientalis, Pinus sylvestris, Abies nordmanniana.*

fasciculatus fasciculatus DeGeer, 1775: 71 (*Cerambyx*)

Records in Turkey. TR-A: Amasya, Bolu, Çankırı, Gümüşhane, Kars, Kastamonu, Kütahya, Samsun, Tokat, Trabzon provinces.

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Range: 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

Literatures. [Erdem, 1947; Acatay, 1948, 1961, 1968; Öymen, 1987; Adlbauer, 1992; Lodos, 1998; Sama, 2002; Özdikmen, 2007, 2008a, 2021b; Sama et al., 2012; Al-Hamadani & Özdikmen, 2014; Tezcan et al., 2020**]**.

inermicollis Reitter, 1894: 247

Type information. *Pogonocherus inermicollis* Reitter, 1894: 247 (Holotype, ex collection Edmund Reitter, Magyar Természettudományi Mûzeum, Budapest) [type locality "Abkhazia: Inalipa" (Georgia)]
Body length. 5-7 mm.
Adult period. March-July.
Hosts. Coniferous trees (*Abies*). In Turkey, this species has been reported on *Abies nordmanniana*.
Records in Turkey. TR-A: Artvin province.

Range: E: ST **A:** GG TR

Literatures. [Sama, 1994; Tauzin, 2000; Özdikmen, 2007**]**.

Tribe ACANTHODERINI J. Thomson, 1860

Genus *AEGOMORPHUS* Haldeman, 1847: 45 [type species *Aegomorphus decipiens* Haldeman, 1847 (= *Lamia modesta* Gyllenhal, 1817)]

clavipes Schrank, 1781: 135 (*Cerambyx*)

Type information. *Cerambyx clavipes* Schrank, 1781: 135. Holotype: Ex

collection F. P. Schrank, Naturhistorisches Museum Wien, Austria [type loc. "Öttscher Mt." (Austria)]
Body length: 7-17 mm.
Adult period: May-September.
Hosts: Deciduous trees (*Populus, Tilia, Betula, Alnus, Fagus, Salix, Acer, Carpinus, Corylus, Quercus, Juglans, Ficus, Morus, Prunus, Cerasus*), and also reported from coniferous trees (*Abies, Picea*). In Turkey, this species has been reported on *Fagus orientalis, Alnus, Prunus, Cerasus avium.*
Records in Turkey. TR-A: Amasya, Bursa, Erzurum, Hatay, Isparta, İstanbul, İzmir, Kocaeli, Manisa, Samsun, Tunceli provinces; **TR-E:** Edirne, İstanbul provinces.

Range: E: AL AU BH BU CR CT CZ DE EN FI FR GE GR HU IT LA LT MD ME NR NT PL RO SB SK SL SP ST SV SZ TR UK **N:** AG MO TU **A:** AB AR ES FE GG HEB KZ JA MG NC NE TR WS XIN

Literatures. [Acatay, 1943; Demelt & Alkan, 1962; Demelt, 1963; Fuchs & Breuning, 1971; Öymen, 1987; Sama 1994; Althoff & Danilevsky, 1997; Lodos, 1998; Sama, 2002; Tezcan & Rejzek, 2002; Özdikmen & Demirel, 2005; Özdikmen & Şahin, 2006; Şabanoğlu & Şen, 2016; Şabanoğlu, 2019; Özdikmen, 2021a**]**.

Tribe ACANTHOCININI Blanchard, 1845

Genus *ACANTHOCINUS* Dejean, 1821: 106 [type species *Cerambyx aedilis* Linnaeus, 1758]

Subgenus *ACANTHOCINUS* Dejean, 1821: 106 [type species *Cerambyx aedilis* Linnaeus, 1758]

aedilis Linnaeus, 1758: 392 (*Cerambyx*)

Type information. *Cerambyx aedilis* Linnaeus, 1758: 392 (Syntypes ♂♂ & ♀♀, ex collection C. Linnaeus, Zoologiska Institutionen, Uppsala) [type locality "Suecia" (Sweden)]
Body length. 11-24 mm.
Adult period. March-October.
Hosts. Coniferous trees (*Pinus* preferred, *Picea, Abies, Larix*). In Turkey, this species has been reported on *Pinus sylvestris, Pinus brutia,*

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Pinus nigra, Pinus pinaster, Picea orientalis.
Records in Turkey. TR-A: Amasya, Ankara, Antalya, Artvin, Balıkesir, Bilecik, Bolu, Bursa, Çanakkale, Çankırı, Denizli, Düzce, Erzurum, Eskişehir, Giresun, Gümüşhane, Isparta, İçel, İzmir, Karabük, Kars, Kastamonu, Kütahya, Muğla, Sinop, Tokat provinces; **TR-E:** İstanbul province.

Range: E: AL AN 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 **A:** AB AR ES FE GG HEI HEN HUB JIL JIX KZ MG NC NMO SHA SC SHN TR WS

Literatures. [Alkan, 1946; Schimitschek, 1944; Acatay, 1948, 1961, 1963, 1968; Çanakçıoğlu, 1956, 1983; Demelt, 1963; Breuning et Villiers, 1967; Erdem, 1968; Besçeli, 1969; Gül-Zümreoğlu, 1975; Tosun, 1975; Erdem & Çanakçıoğlu, 1977; Özbek, 1978; Sekendiz, 1981; Danilevsky & Miroshnikov, 1985; Öymen, 1987; Önder et al., 1987; Adlbauer, 1992; Yüksel, 1996; Althoff & Danilevsky, 1997; Lodos, 1998; Alkan, 2000; Alkan & Eroğlu, 2001; Tozlu, 2001; Sama, 2002; Tozlu et al., 2003; Özdikmen & Şahin, 2006; Özdikmen, 2006, 2007, 2008a,b, 2011a,b, 2021b; Özdikmen & Demir, 2006; Özdikmen et al., 2012; Şenyüz & Özdikmen, 2013; Cihan et al., 2013; Al-Hamadani & Özdikmen, 2014; Albayati et al., 2016; Varlı et al., 2019; Tezcan et al., 2020; Özdikmen & Tezcan, 2020a**]**.

***griseus* Fabricius, 1793: 261** (*Cerambyx*)

Type information. *Cerambyx griseus* Fabricius, 1793: 261 (Syntypes (2), ex collection J. C. Fabricius, Zoologisk Museum, Copenhague) [type locality "Germania" (Germany)]
Body length. 7-14 mm.
Adult period. April-October.
Hosts. Coniferous trees (*Pinus, Picea, Abies*) strongly preferred and reported also deciduous trees (*Quercus, Alnus, Juglans, Populus*). In Turkey, this species has been reported on *Pinus brutia, Pinus halepensis, Pinus nigra, Picea orientalis.*
Records in Turkey. TR-A: Adana, Antalya, Balıkesir, Bolu, Bursa, Çanakkale, Denizli, Erzurum, Hatay, İçel, İzmir, Kastamonu, Kocaeli, Manisa, Muğla, Osmaniye, Trabzon provinces; **TR-E:** Edirne, İstanbul provinces.

Range: E: AL AN AU BE BU BY CR CT CZ EN FI FR GE GR HU IT NT LA LS LT MC MD ME ND NR PL PT RO SB SK SL SP ST SV SZ TR UK **A:** ?AB ?AR CY ES ?FUJ ?GAN ?GG ?GUA ?GUI ?GUX ?HEB ?HEI ?HEN ?HUB ?JIL ?JIX KZ LE ?LIA MG ?NMO ?SHA SY TR WS ?XIN ?ZHE

Literatures. [Çanakçıoğlu, 1956; Demelt, 1967; Gül-Zümreoğlu, 1975; Tosun, 1975; Sekendiz, 1981; Erdem & Çanakçıoğlu, 1977; Öymen, 1987; Adlbauer, 1992; Althoff & Danilevsky, 1997; Lodos, 1998; Alkan, 2000; Alkan & Eroğlu, 2001; Sama, 2002; Tozlu et al., 2003; Özdikmen & Şahin, 2006; Tezcan & Can, 2009; Özdikmen, 2007, 2008a,b, 2011a,b, 2021a,b; Cihan et al., 2013; Küçükkaykı et al., 2013; Albayati et al., 2016; Varlı et al., 2019; Tezcan et al., 2020; Özdikmen & Tezcan, 2020a**]**.

Genus *LEIOPUS* Audinet-Serville, 1835: 86 [type species *Cerambyx nebulosus* Linnaeus, 1758]

Subgenus *LEIOPUS* Audinet-Serville, 1835: 86 [type species *Cerambyx nebulosus* Linnaeus, 1758]

nebulosus Linnaeus, 1758: 391 (*Cerambyx*)

Type information. *Cerambyx nebulosus* Linnaeus, 1758: 391 (Neotype ♂, Zoologiska Institutionen, Uppsala) [type locality "Gotland: Sproge" (Sweden)]
Body length. 5-10 mm.
Adult period. April-August.
Hosts. Deciduous trees (*Quercus, Acer, Castanea, Fagus, Prunus, Pyrus, Populus, Salix, Ulmus, Tilia, Morus, Ficus, Juglans, Carpinus, Corylus, Betula, Alnus, Cydonia, Sorbus*), and also shrubs (*Sambucus*), and also reported from coniferous trees (*Pinus, Picea, Abies*). In Turkey, this species has been reported on *Carpinus betulus, Fagus, Alnus, Castanea vesca, Prunus avium.*
Records in Turkey. TR-A: Artvin, Balıkesir, Bolu, Çankırı, Isparta, İçel, İstanbul, Kastamonu, Kırşehir, Niğde, Tokat provinces; **TR-E:** İstanbul province.

nebulosus caucasicus Ganglbauer, 1887: 25 (*Liopus*)

Type information. *Liopus caucasicus* Ganglbauer, 1887: 25 (Holotype ♀, ex collection L. Ganglbauer, Naturhistorisches Museum, Wien) [type locality "Tbilissi" (Georgia)]
Records in Turkey. TR-A: Artvin, Balıkesir, Bolu, Çankırı, Isparta, İçel, İstanbul, Kastamonu, Kırşehir, Niğde, Tokat

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provinces.

Range: E: ST **A:** AB AR GG TR

***nebulosus nebulosus* Linnaeus, 1758: 391** (*Cerambyx*)

Records in Turkey. TR-E: İstanbul province.

Range: E: ?AL ?AU BE BH BU ?CR CT DE EN FI FR GB GE ?GR ?HU IR IT LA LS LU ?MD ?ME NL NR PL ?PT RO ?SB SL ?SP SV SZ TR UK **A:** ?KZ

Literatures. [Acatay, 1943, 1948, 1961, 1968; Schimitschek, 1944; Sekendiz, 1981; Öymen, 1987; Adlbauer, 1992; Althoff & Danilevsky, 1997; Lodos, 1998; Sama, 2002; Özdikmen et al., 2005; Özdikmen, 2007, 2008a, 2011a, 2021a,b; Al-Hamadani & Özdikmen, 2014; Albayati et al., 2016; Varlı et al., 2019; Özdikmen & Tezcan, 2020a**]**.

***syriacus* Ganglbauer, 1884: 532** (*Liopus*)

Type information. *Liopus syriacus* Ganglbauer, 1884: 532 (Holotype ♂, ex collection L. Ganglbauer, Naturhistorisches Museum Wien) [type locality "Beirut" (Lebanon)]

***syriacus abieticola* Sama & Rapuzzi, 2010: 186** (ENDEMIC)

Type information. *Leiopus syriacus abieticola* Sama & Rapuzzi, 2010: 186 (Holotype ♂, collection Pierpaolo Rapuzzi, Prepotto) [type locality "Göksun" (Turkey: Kahramanmaraş)]
Body length. 7-9 mm.
Adult period. May-June.
Hosts. Coniferous trees (*Abies, Pinus*). This species has been

reported on *Abies cilicica, Pinus nigra pallasiana*.
Records in Turkey. TR-A: Hatay, Isparta, Kahramanmaraş, Malatya provinces.

Range: A: TR

Literatures. [Sama & Rapuzzi, 2010; Sama et al., 2011, 2012; Özdikmen, 2021b**]**.

Tribe EXOCENTRINI Pascoe, 1864

Genus *EXOCENTRUS* Dejean, 1835: 339 [type species *Cerambyx balteus* Linnaeus *sensu* Dejean, 1835 (= *Cerambyx lusitanus* Linnaeus, 1767)]

adspersus Mulsant, 1846: [9] [NP]

Type information. *Cerambyx quercus* Rossi, 1790: 143 (nec Goeze, 1783) (Syntypes, ex collection Rossi, Museum für Naturkunde - Leibniz Institute for Evolution and Biodiversity Science, Berlin) [type locality "Italy"]
Body length. 4.5-8 mm.
Adult period. April-August.
Hosts. Deciduous trees (*Quercus, Juglans, Castanea, Tilia, Alnus, Betula, Ostrya, Carpinus, Corylus, Robinia, Fagus, Crataegus, Ulmus*), and creepers (*Hedera*), and also reported from coniferous trees (*Pinus*). In Turkey, this species has been reported on *Quercus, Castanea, Alnus*.
Records in Turkey. TR-A: Adana, Antalya, Balıkesir, Hatay, İstanbul, Kahramanmaraş, Kocaeli, Osmaniye, Rize, Tokat provinces; **TR-E:** ?Edirne province.

Range: E: AL AU BE BH BU CR CZ CY GE GR HU IT LU MC MD ME NL PL RO SB SK SL SP ST SV SZ TR UK **A:** AB AR GG SY TR

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Literatures. [Demelt & Alkan, 1962; Demelt, 1963; İren & Ahmed, 1973; Breuning, 1981; Adlbauer, 1988; Althoff & Danilevsky, 1997; Lodos, 1998; Sama, 2002; Özdikmen & Demirel, 2005; Özdikmen, 2007, 2008a, 2011a, 2021a,b; Sama et al., 2011, 2012; Atay et al., 2012; Özdikmen & Tezcan, 2020a**]**.

punctipennis Mulsant & Guillebeau, 1856: 103

Type information. *Exocentrus punctipennis* Mulsant & Guillebeau, 1856: 103 (Syntypes, ex collection Étienne Mulsant, Muséum National d'Histoire Naturelle, Paris) [type locality "Lyon env." (France)]
Body length. 3-6.5 mm.
Adult period. May-August.
Hosts. Deciduous trees (*Ulmus, Quercus, Alnus, Betula, Tilia, Salix, Fagus*), and also reported from coniferous trees (*Abies*). In Turkey, this species has been reported on *Quercus, Salix*.
Records in Turkey. TR-A: Antalya, Bartın, Muğla provinces; **TR-E:** İstanbul province.

punctipennis punctipennis Mulsant & Guillebeau, 1856: 103

Records in Turkey. TR-E: İstanbul province.

Range: E: AL AU BH BU BY CR CT CZ FR GE GR HU IT LU MD PL RO SK SL SP ST SZ TR UK

punctipennis signatus Mulsant & Rey, 1863: 163

Type information. *Exocentrus signatus* Mulsant & Rey, 1863: 163 (Holotype, ex collection Petri Pellet, Muséum d'Histoire Naturelle de Perpignan) [type locality "İstanbul env." (Turkey)]
Records in Turkey. TR-A: Antalya, Bartın, Muğla provinces.

Range: E: ST **A:** AB GG TR

Literatures. [Acatay, 1943; Danilevsky & Miroshnikov, 1985; Öymen, 1987; Adlbauer, 1992; Lodos, 1998; Sama, 2002; Özdikmen, 2007, 2008a, 2011a, 2021a; Albayati et al., 2016; Tezcan et al., 2020; Özdikmen & Tezcan, 2020a**]**.

ritae Sama, 1985: 65

Type information. *Exocentrus ritae* Sama, 1985: 65 (Holotype ♂, Museo Civico di Storia Naturale di Verona) [type locality "Çamlıyayla (Namrun)" (Turkey: İçel)]
Body length. 3-6 mm.
Adult period. May-July.
Hosts. Deciduous trees (*Ulmus, Juglans, Morus, Salix, Ficus, Ceratonia*) and also reported from coniferous trees (*Cupressus*). In Turkey, this species has been reported on *Ulmus, Salix, Morus, Ficus, Juglans, Ceratonia, Cupressus*.
Records in Turkey. TR-A: Adana, Adıyaman, Antalya, İçel provinces.

Range: A: SY TR

Literatures. [Sama, 1985; Adlbauer, 1988; Özdikmen, 2011a; Özdikmen & Tezcan, 2020a**]**.

Tribe SAPERDINI Mulsant, 1839

Genus *SAPERDA* Fabricius, 1775: 184 [type species *Cerambyx carcharias* Linnaeus, 1758]

Subgenus *LOPEZCOLONIA* Alonso-Zarazaga, 1998: 131 [RN] [type species *Saperda tremula* Fabricius, 1775 (= *Leptura octopunctata* Scopoli, 1772)]

scalaris Linnaeus, 1758: 394 (*Cerambyx*)

Type information. *Cerambyx scalaris* Linnaeus, 1758: 394 (Syntypes (3) ♂ & ♀♀, ex collection C. Linnaeus, Linnean Society of London) [type locality "Suecia" (Sweden)]
Body length. 11-22 mm.
Adult period. April-August.
Hosts. Many deciduous trees and shrubs, and occasionally coniferous trees (*Abies, Picea, Larix*). In Turkey, this species has been reported on *Alnus, Juglans regia, Picea orientalis*.

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***scalaris scalaris* Linnaeus, 1758: 394** (*Cerambyx*)

Records in Turkey. TR-A: Amasya, Artvin, Erzurum, Trabzon, Tunceli provinces; **TR-E:** İstanbul provinces.

Range: E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LT LU MD ME NE NL NR NT PL RO SB SK SP ST SV SZ TR UK **N:** AG **A:** AB AR GG KZ TR

Literatures. [Acatay, 1943; Breuning et Villiers, 1967; Sama, 1982; Danilevsky & Miroshnikov, 1985; Öymen, 1987; Toros, 1996; Yüksel, 1996; Althoff & Danilevsky, 1997; Lodos, 1998; Alkan, 2000; Alkan & Eroğlu, 2001; Sama, 2002; Özdikmen, 2007, 2008a, 2021a; Sama et al., 2012**]**.

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