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Checklist of Bark beetles of Iran (Coleoptera: Curculionidae: Scolytinae)

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Abstract

Bark beetles in subfamily Scolytinae comprise more than 6000 described species, 225 genera and 26 tribes in the world. Bark beetles are one of the most important pests that cause high damage in the forest continent. This is the list of Iranian Scolytinae species and their distribution in different parts of Iran. This list is mainly based on literature from 1972 to 2014. A total of 69 species from 26 genera were recorded from Iran.

Zusammenfassung

Borkenkäfer der Unterfamilie Scolytinae umfassen mehr als 6000 beschriebene Arten, 225 Gattungen und 26 Triben in der Welt. Borkenkäfer sind eine der wichtigsten Schädlinge, die hohe Schäden im Wälder anrichten können. Vorgestellt wird hier die Liste der iranischen Scolytinae-Arten und deren Verbreitung in den verschiedenen Teilen des Iran. Diese Liste basiert hauptsächlich auf Literatur von 1972 bis 2014. Insgesamt 69 Arten aus 26 Gattungen werden für den Iran registriert.

Introduction

In previous bark beetles are considered as a separate family Scolytidae, that include the two subfamilies Scolytinae and Hylesinae (WOOD 1982), but in new classification bark beetles are integrated to within the family Curculionidae as subfamily Scolytinae (LAWRENCE & NEWTON 1995, ALONSO-ZARAZAGA & LYAL 1999), as supported by phylogenetic studies using molecular and morphological characters (MARVALDI et al. 2002). The subfamily Scolytinae with 225 genera and more than 6000 described species (WOOD 1982) is one of the largest groups in Coleoptera (EROĞLU et al., 2005). Bark beetles are economic important pest, and cause high damage in forest ecosystem (MAY 1994; OBERPRIELER et al. 2007). Scolytines are in small size <1 mm to 1 cm in length, but most species are generally 2–4 mm long. These beetles usually live in dead or weakened trees; however, some species attack healthy trees (WOOD 1982). Some species transfer pathogenic Ophiostomatoid fungi which causes lethal Dutch elm disease (DED) in *Ulmus* (elm) trees (GIBBS 1978).

Checklist of bark beetles are provided for some parts of world such as Southern Florida (ANDERSON 1992), New Zealand (BROCKERHOFF 2003), Texas and Oklahoma (ATKINSON 2013). Although bark beetles species of Iran have been studied partly (AMINI et al. 2013, SAMIN et al. 2011, MODARESS AWAL 1997), it is necessary to investigate collections of museum and references. This presented checklist is proposed to facilitate access to the most recent data on Iranian bark beetles and update the recorded species from Iran. This checklist also provides distribution and host plant of bark beetles species in Iran.

Material and Methods

This list is based on the relevant literature on bark beetles of Iran. The most of the data in this checklist refers to available literature and references from 1988 to 2013. Additional data are included from specimens that have deposited in Hayk Mirzayans Insect Museum in Iran.

Results

A total of 73 species belonging to 29 genera of Scolytinae are listed in this checklist. It also provides for each species its distribution and host plant in Iran. Each genus and species is listed with its page number from catalogue of Palearctic Coleoptera, volume 7, Curculionidae 2011 and other references that was used. In this study the most species is recorded from the North of Iran, including Mazandaran, Guilan and Golestan province. Review of the species is presented as follow:

Subfamily Scolytinae LATREILE, 1804

Tribe Hylesinini ERICHSON, 1836

Genus *Hylesinus* FABRICIUS, 1801

Type species *Bostrichus crenatus* FABRICIUS, 1787

***Hylesinus fraxini* PANZER, 1779**

Syn: *Hylesinus varius* SCHEDL, 1958; *Hylesinus melanocephalus* FABRICIUS, 1801, *H. haemorrhoidalis* MARSHAM, 1802, *H. picipennis* STEPHENS, 1839; *H. henscheli* KNOTEK, 1894; *H. rufescens* MARSHAM, 1802.

Distribution: Guilan, Ghom, Kerman (BROUMAND 1998).

Host plant: *Ash* sp., *Olea* sp., *Juglans* sp., *Fagus* sp., (BROUMAND 1998).

***Hylesinus crenatus* (FABRICIUS, 1787)**

Syn: *Bostrichus crenatus*, FABRICIUS, 1787; *Hylesinus prutensky*, SOKANOVSKY, 1959.

Distribution: Ardabil, 2007 (SAMIN et al. 2011).

Host plant: Unknown.

***Hylesinus toranio* (DANTHOINE, 1788)**

Syn: *Bostrichu oleiperda* FABRICIUS, 1792; *H. scaber* MARSHAM, 1802; *H. bicolor* BRULLE, 1832; *H. suturalis* REDTENBACHER, 1842; *H. essau* GREDLER, 1866.

Distribution: North of Iran (MODARESS AWAL 1975, BALACHOWSKY 1963, BALACHOWSKY et al. 1935).

Host plant: *Oleae* sp. (MODARESE AWAL 1997). *Ash* sp., *Olea* sp., *Juglans* sp., *Fagus* sp., (BROUMAND 1998).

Genus *Kissophagus* Chapuis, 1869

Type species *Hylesinus hederæ* SCHMITT, 1843.

***Kissophagus hederæ* (SCHMITT, 1843)**

Syn: *H. vicinus* COMOLLI, 1837; *Kissophagus nussilini* REITTER, 1913.

Distribution: East Azerbaijan, 2007 (SAMIN et al. 2011).

Host plant: Unknown.

Genus *Pteleobius* BEDEL, 1888

Type species *Bostrichus vitatus* Fabricius, 1787

***Pteleobius kraatzii* (EICHHOFF, 1864)**

Syn: *Hylesinus kraatzi* EICHHOFF, 1864; *H. putoni* EICHHOFF, 1867.

Distribution: West Azerbaijan, 2005 (SAMIN et al. 2011).

Host plant: Unknown.

***Pteleobius vittatus* (FABRICIUS, 1787)**

Syn: *Bostrichus vitatus* FABRICIUS, 1787; *Hylesinus furcatus* MARSHAM, 1802; *H. sericeus* STEPHENS, 1832.

Distribution: Mazandaran, 2008 (SAMIN et al. 2011).

Host plant: Unknown.

Tribe Hylastini LECONTE, 1876

Genus *Hylastes* ERICHSON, 1836

Type species *Bostrichus ater* PAYKULL, 1800

***Hylastes angustatus* (HERBST, 1793)**

Syn: *Hylesinus graphus* DUFTSCHMID, 1805; *Hylastes angustatus* ERICHSON, 1836; *H. opacus* THOMSON, 1856; *H. scandinavicus* LEKANDER, 1965.

Distribution: East Azerbaijan, 2007 (SAMIN et al. 2011).

Host plant: *Picea orientalis* (SAMIN et al. 2011).

***Hylastes brunneus* ERICHSON, 1836**

Syn: *H. rotundicollis* REITTER, 1804; *H. atterimus* EGGERS, 1933; *H. subalpinus* EGGERS, 1940; *H. ater* SCHEDL, 1981.

Distribution: West Azerbaijan, 2004 (SAMIN et al. 2011).

Host plant: *Pinus nigra* (Samin et al. 2011).

Genus *Hylurgops* LECONTE, 1876

Type species *Hylastes* part. ERICHSON, 1836

***Hylurgops glabratus* (ZETTERSTEDT, 1828)**

Syn: *Hylastes decumanus* ERICHSON, 1836; *H. tenebrosus* SAHLBERG, 1836; *Hylesinus paykuli* DUFTSCHMID, 1825; *Bostrichus crenatus* PANZER, 1813.

Distribution: Mazandaran, 2006 (SAMIN et al. 2011).

Host plant: *Abies nordmanniana* (SAMIN et al. 2011).

***Hylurgops palliates* (GYLLENHAL, 1813)**

Syn: *Hylesinus abietiperda* BECHSTEIN, 1818; *H. fuscus* DUFTSCHMID, 1825; *H. marginatus* DUFTSCHMID, 1825; *H. helferi* VILLA, 1835; *Ips piceus* MARSHAM, 1802; *H. rufescens* STEPHENS, 1830; *Hylurgops parvus* EGGERS, 1933.

Distribution: Guilan, 2008 (SAMIN et al. 2011).

Host plant: *Pinus pinea* (SAMIN et al. 2011).

Tribe Hylurgini GISTEL, 1848

Genus *Chaetoptelius* FUCHS, 1913

Type species *Hylesinus vestitus* MULSANT & REY, 1861

***Chaetoptelius vestitus* MULSANT & REY, 1860**

Syn: *Hylesinus indigenus* WOLLASTON, 1884.

Distribution: Damghan, Zanjan, Khorasan, Kerman, Isfahan and Fars provinces (ABAI 1984; Balachowsky, 1963; Behdad, 1988; ESMAILI et. al. 1991; FARAHBAKHSH 1961; FARIVAR MEBIN 1983; GARDENHIRE 1959; KIRUKHIN 1946a; LÖBL & SMETANA 2011).

Host plant: *Pistacia vera*, *Pinus* sp. (BROUMAND 1998).

Genus *Tomicus* LATREILLE, 1802

***Tomicus destruens* (WOLLASTON, 1865)**

Syn: *Tomicus pinipetra* SCHEDL, 1932.

Distribution: Golestan province, 2004 (SAMIN et al. 2011).

Host plant: *Pinus* sp. (SAMIN et al. 2011).

Tribe Hypoborini NUSSLIN, 1911

Genus *Hypoborus* ERICHSON, 1836

Type species *Hypoborus ficus* ERICHSON, 1836

***Hypoborus ficus* ERICHSON, 1836**

Syn: *Hypoborus siculus* FERRARI, 1867; *H. fici* DEJEAN, 1837.

Distribution: Guilan, Khorasan, Tehran and Fars (ABAI 1984; BALACHOWSKY 1963; BEHDAD 1988, 1991; CHOJAI 1968, 1969; ESMAILI et. al. 1991; FARAHBAKHS 1961).

Host plant: *Ficus* sp., *Eriobotrya* sp. (BROUMAND 1998).

Tribe Phloeosini NUSSLIN, 1912

Genus *Phloeosinus* CHAPIUS, 1869

Type species *Hylesinus thujae* PERRIS, 1855

***Phloeosinus aubei* PERRIS, 1855**

Syn: *Phloeosinus schumensis* EGGERS, 1922; *H. praenotatus* GREDLER, 1866; *Phloeosinus bicolor* BEDEL, 1888; *P. hercegovinensis* EGGERS, 1992; *P. transcaspicus* SEMENOV, 1903.

Distribution: Guilan, (AMINI et al. 2013), Tehran and Other Northern Provinces, (ABAI 1984; BEHDAD 1988, 1991; CHOJAI 1968, 1969; DAVATCHI & CHOJAI 1969).

Host plant: *Pinus* sp. (AMINI et al. 2013, ABAI 1984).

***Phloeosinus armatus* REITTER, 1887**

Syn: *Phloeosinus andresi* EGGERS, 1927.

Distribution: East Azerbaijan, 2007 (SAMIN et al. 2011).

Host plant: *Cupressus sempervirens* (SAMIN et al. 2011).

***Phloeosinus cedri* BRISOUT DE BARNEVILLE, 1883**

Syn: *Phloeosinus maura* BALACHOWSKY, 1969

Distribution: Mazandaran, 2007 (SAMIN et al. 2011).

Host plant: *Cedrus libani* (SAMIN et al. 2011).

***Phloeosinus cupressi* HOPKINS, 1903**

Distribution: Caspian Sea area (ABAI 1984; BEHDAD 1988).

Host plant: *Cryptomeria* sp. (BEHDAD 1988).

Tribe Phloeotribini CHAPIUS, 1869

Genus *Phloeotribus* LATREILLE, 1797

Type species *Bostrichus oleae* FABRICIUS, 1792

***Phloeotribini caucasicus* REITTER, 1891a**

Distribution: Guilan province (AMINI et al. 2013).

Host plant: *Oleae* sp. (AMINI et al. 2013).

***Phloeotribius scarabaeoids* BERN, 1788**

Syn: *Scolytus scarabeides* BERNARD, 1788; *Bostrichus oleae* FABRICIUS, 1792; *Phloeotribus oleiphilus* DEL GUERCIO, 1925.

Distribution: Ardabil, 2006 (SAMIN et al. 2011), Guilan and Northern Provinces (ABAI 1984; BALACHOWSKY 1963; BEHDAD 1988; FARAHBAKSH 1961; FARAHBAKSH & MOINI 1976).

Host plant: *Pinus nigra*; *Oleae* sp. (SAMIN et al. 2011).

Tribe Polygraphini CHAPIUS, 1869

Genus *Carphoborus* EICHHOFF, 1864

Type species *Bostrichus minimus* FABRICIUS, 1798

***Carphoborus perrisi* CHAPIUS, 1869**

Syn: *Carphoborus kuschensis* SOKANOVSKIY, 1954; *C. abachidzei* STARK, 1925.

Distribution: Different parts of Iran (LÖBL & SMETANA 2011).

Host plant: Unknown.

***Carphoborus minimus* FABRICIUS, 1798**

Syn: *Carphoborus balgensis* MURAYAMA, 1943; *Hylurgus squamulatus* REDTENBACHER, 1858.

Distribution: East Azerbaijan, 2007. (SAMIN et al. 2011)

Host plant: *Cedrus libani* (SAMIN et al. 2011).

***Carphoborus pini* EICHHOFF, 1881**

Syn: *Carphoborus atritus* PEYERIMHOFF, 1931.

Distribution: West Azerbaijan, 2005 (SAMIN et al. 2011).

Host plant: *Pinus pinea* (SAMIN et al. 2011).

Tribe Cryphalini LINDEMAN, 1877

Genus *Hypothenemus*, WESTWOOD, 1834

Type species *Tomicus eruditus* WESTWOOD, 1834

***Hypothenemus eruditus* WESTWOOD, 1834**

Syn: *Bostrichus boieldieu* PERROUD, 1864; *Cryphalus aspericollis* WOLLASTON, 1860; *C. obscurus* FERRARI, 1867; *C. basjoo* NIJIMA, 1901; *Stephanoderes germari* EICHHOFF, 1878; *S. gracilis* EGGERS, 1929; *Hypothenemus insularis* PERKINS, 1915; *H. tuberculosus* HAGEDORN, 1912; *H. argentinensis* SCHEDL, 1939; *H. prvus* HAPKINS, 1915; *H. asaroriensis* BEESON, 1940; *H. asiminae* HOPKINS, 1915; *H. bradfordi* HOPKINS, 1915.

Distribution: Guilan (AMINI et al. 2013) and Northern provinces (ABAI 1984, BEHDAD 1988).

Host plant: *Ficus* sp., *Morus* sp. (AMINI et al. 2013).

***Hypothenemus hampei* (FERRARI, 1867)**

Syn: *Cryphalus hampei* FERRARI, 1867; *Stephanoderes coffeae* HAGEDORN, 1910; *S. punctatus* EGGERS, 1924; *S. glabellus* SCHEDL, 1952 *Xyleborus coffeivorus* WEELE, 1910; *Stephanoderes coffeicola* CAMPOS NOVAES, 1922.

Distribution: Iran (LÖBL & SMETANA 2011).

Host plant: *Coffea* sp. (LÖBL & SMETANA 2011).

Genus *Ernoporicus* BERGER, 1917

Type species *Apate tiliae* PANZER, 1793

***Ernoporus caucasicus* LINDEMANN, 1875**

Syn: *Cryphalus schreineri* EICHHOFF, 1881.

Distribution: West Azerbaijan, 2005 (SAMIN et al. 2011).

Host plant: Unknown.

Tribe Dryocoetini LINDEMANN, 1876

Genus *Taphrorychus* EICHHOFF, 1878

Type species *Bostrichus bicolor* HERBST, 1794

***Taphrorychus villifrons* (DUFOR, 1843)**

Syn: *Bostrichus bulmenrinqui* KOLENATI, 1846; *Dryocoetes capronatus* PERRIS, 1866; *Taphrorychus schimitscheki* EGGERS, 1940; *T. coronatus* EGGERS, 1944.

Distribution: Guilan, 1973, (BOROUMAND 1998), and Northern Provinces (ABAI 1984; BEHDAD 1988).

Host plant: *Carpinus betulus* (BOROUMAND 1998).

***Taphrorychus lenkoranus* REITTER, 1913b**

Distribution: Guilan province (AMINI et al. 2013).

Host plant: *Carpinus* sp. (AMINI et al. 2013).

***Taphrorychus bicolor* HERBST, 1794a**

Syn: *Bostrichus bicolor* HERBST, 1793; *Ips fuscus* MARSHAM, 1802; *Dryocoetes tristiculus*

Distribution: East Azerbaijan, 2007 (SAMIN et al. 2011).

Host plant: *Fagus sylvaticassp* (SAMIN et al. 2011).

***Taphrorychus alni* PFEFFER, 1940**

Distribution: Northern provinces (ABAI 1984).

Host plant: *Fagus* sp. *Alnus* sp. (ABAI 1984).

***Taphrorychus ramicola* (REITTER, 1894)**

Syn: *Dryocoetes pusillus* EGGERS, 1933.

Distribution: Golestan, 2004 (SAMIN et al. 2011).

Host plant: *Corylus avellana* (SAMIN et al. 2011).

Genus *Dryocoetes* EICHHOFF, 1864

Type species *Bostrichus autographus* RATZBURG, 1837

***Dryocoetes alni* (GEORG, 1856)**

Syn: *Tomicus marshami* REY, 1868; *Dryocoetes similis* EGGERS, 1911; *D. leonhardi* EGGERS, 1912.

Distribution: West Azerbaijan, 2005 (SAMIN et al. 2011).

Host plant: Unknown.

***Dryocoetes villosus* (FABRICIUS, 1792)**

Syn: *B. histerinus* DUFOUR, 1843; *B. pilosus* DEJEAN, 1837; *Tomicus villosus* THOMSON, 1857; *Dryocoetes eichhoffi* FERRARI, 1867.

Distribution: Mazandaran, 2008 (SAMIN et al. 2011).

Host plant: Unknown.

Genus *Thamnurgus* EICHHOFF, 1864

Type species *Bostrichus euphorbiae* KUSTER, 1845

***Thamnurgus caucasicus* REITTER, 1887**

Syn: *Thamnurgus pegani* EGGERS, 1933.

Distribution: Golestan, 2004 (SAMIN et al. 2011).

Host plant: Unknown.

***Thamnurgus delphinii* (ROSENHAUER, 1856)**

Syn: *Bostrichus delphinii* ROSENHAUER, 1856; *Thamugrus robustus* EGGERS, 1970; *Thamugrus holtzi* STROHMEYER, 1940; *Thamugrus semirufus* REITTER, 1906.

Distribution: Ardabil, 2006 (SAMIN et al. 2011).

Host plant: Unknown.

***Thamnurgus varipes* EICHHOFF, 1878**

Distribution: East Azerbaijan province, 2007 (SAMIN et al. 2011).

Host plant: Unknown.

Tribe Ipini BEDEL, 1888

Genus *Orthomicus* FERRARI, 1867

Type species *Bostrichus laricis* FABRICIUS, 1792

***Orthomicus erosus* (WOLLASTON, 1857)**

Syn: *Bostrichus laricis* PERRIS, 1856; *B duplicatus* FERRARI, 1868; *Cryptomicus rectangulus* FERRARI, 1867.

Distribution: Guilan, 1977 (BROUMAND 1998), Tehran (ABAEI 1984) and Guilan, 2013 (AMINI et al. 2013).

Host plant: *Pinus* sp. (AMINI et al. 2013).

***Orthotomicus proximus* (EICHHOFF, 1867)**

Syn: *Tomicus omissus* EICHHOFF, 1917; *Ips fefferi* KELER, 1925.

Distribution: East Azerbaijan province, 2007 (SAMIN et al. 2011).

Host plant: *Cedrus libani* (SAMIN et al. 2011).

***Orthotomicus suturalis* (GYLLENHAL, 1827)**

Syn: *Bostrichus nigratus* GYLLENHAL, 1827; *Bostrichus laricis* HRATIG, 1834.

Distribution: Guilan, 2007 (SAMIN et al. 2011).

Host plant: *Pinus sylvestris* (SAMIN et al. 2011).

***Orthotomicus laricis* (FABRICIUS, 1792)**

Syn: *Bostrichus chalcographus* OLIVIER, 1795; *Bostrichus denticulatus* STURM, 1826; *Bostrichus micrographus* DEGEER, 1775.

Distribution: West Azerbaijan, 2005 (SAMIN et al. 2011).

Host plant: *Pinus nigra* (SAMIN et al. 2011).

Genus *Pityogenes* BEDEL, 1888

Type species *Dermestes Chalcographus* LINNAEUS, 1761

***Pityogenes bidentatus* (HERBST, 1784)**

Syn: *Bostrichus bidens* FABRICIUS, 1792; *Pityogenes obtusus* EGGERS, 1932; *P. pilidens* REITTER, 1894; *Pityogenes carniolica* FUCHS, 1911.

Distribution: West Azerbaijan, 2005 (SAMIN et al. 2011).

Host plant: *Picea orientalis* (SAMIN et al. 2011).

***Pityogenes calcaratus* (EICHHOFF, 1878)**

Syn: *Tomicus lipperti* HENSCHEL 1885; *P. herbellae* STROHMEYER, 1929; *P. opacifrons* REITTER, 1913.

Distribution: East Azerbaijan, 2007 (SAMIN et al. 2011).

Host plant: *Pinus brutia* (SAMIN et al. 2011).

***Pityogenes irkutensis* EGGERS, 1910**

Syn: *P. monacensis* FUCHS, 1911.

Distribution: Guilan, 2006 (SAMIN et al. 2011).

Host plant: *Pinus sylvestris* (SAMIN et al. 2011).

***Pityogenes quadridens* (HARTIG, 1834)**

Syn: *Bostrichus quadridens* HARTIG, 1834.

Distribution: Mazandaran, 2007 (SAMIN et al. 2011).

Host plant: *Picea orientalis* (SAMIN et al. 2011).

Genus *Pityokteines* FUCHS, 1911

Type species *Tomicus curvidens* GERMAR, 1824

***Pityokteines curvidens* (GERMAR, 1824)**

Syn: *Tomicus curvidens* GERMAR, 1824; *Bostrichus psilonotus* GERMAR, 1824; *Bostrichus calligraphus* DUFTSCHMID, 1825; *B. orthographus* DUFTSCHMID, 1825.

Distribution: East Azerbaijan, 2007 (SAMIN et al. 2011).

Host plant: Unknown.

Genus *Ips* DEGEER, 1775

Type species *Dermestes typographus*

***Ips acuminatus* GYLLENHAL, 1827**

Syn: *Bostrichus acuminatus* GYLLENHAL, 1827; *Bostrichus quadridentatus* STURM, 1826; *B. germinatus* ZETTERSTEDT, 1828; *B. poprgraphus* ESCHHOLTZ, 1837; *B. iconographus* KUGELANN 1837; *Tomicus heydeni* EICHHOFF, 1884.

Distribution: West Azerbaijan, 2005 (SAMIN et al. 2011).

Host plant: *Abies nordmanniana*, *Abies bornmuelleriana* (SAMIN et al. 2011).

***Ips mannsfeldi* (WACHTL, 1879)**

Distribution: East Azerbaijan, 2007 (SAMIN et al. 2011).

Host plant: *Pinus brutia* (SAMIN et al. 2011).

Tribe Scolytini LATREILLE, 1804

Genus ***Scolytus* GEOFFROY, 1762**

Type species *Bostrichus scolytus* FABRICIUS, 1775

***Scolytus ecksteini* BUTOVITSCH, 1929.**

Distribution: Guilan province (AMINI et al. 2013).

Host plant: *Ulmus minor* (AMINI et al. 2013).

***Scolytus eichhoffi* REITTER, 1859b**

Syn: *Scolytus iranicus* EGGERS, 1941

Distribution: Guilan and other Northern provinces (ABAI 1984; FARAHBAKHS 1961; (BOROUMAND 1998).

Host plant: *Ulmus minor* (BOROUMAND 1998).

***Scolytus intricatus* (RATZBURG, 1837)**

Syn: *Eccoptogaster picicolor* STEPHENS, 1830; *Scolytus carpini* REDTENBACHER, 1858; *S. penicillatus* REITTER, 1913; *S. tiburtinus* CLAUS, 1958; *S. simmeli* EGGERS, 1923.

Distribution: East Azerbaijan, 2007, Guilan, Mazandaran (ABAI 1984; BEHDAD 1988, CHOJAI 1969; BOROUMAND 1998).

Host plant: *Quercus frainetto* (BOROUMAND 1998).

***Scolytus mali* (BECHSTEIN, 1805)**

Syn: *Bostrichus mali* BECHSTEIN, 1805; *Eccoptogaster pruni* RATZBURG, 1837; *E. pyri* RATZBURG, 1837; *E. castaneus* RATZBURG, 1837; *Scolytus bicallosus* EGGERS, 1933.

Distribution: Guilan (AMINI et al. 2013). Generally distributed in different parts of Iran (ABAI 1984; BALACHOWSKY 1963; BEHDAD 1988, 1991; CHOJAI 1969; ESMAILI & OLUMI SADEGHI 1980; FARAHBAKHS 1961; RADJABI 1976, 1991; SHAHROKH 1988).

Host plant: *Malus* sp., *Pyrus* sp.

***Scolytus ensifer* EICHHOFF, 1881**

Distribution: Guilan (AMINI et al. 2013) and Northern Provinces (ABAI 1984; BEHDAD 1988), Markazi (BROUMAND 1998).

Host plant: *Ulmus minor* (AMINI et al. 2013).

***Scolytus multistriatus* (MARSHAM, 1802)**

Syn: *Ips multistriatus* MARSHAM, 1802; *Eccoptogaster flavicornis* CHEVROLAT, 1829; *E. abhorrens* WICHMANN, 1913; *Scolytus ulmi* REDTENBACHER, 1849; *S. javanus* CHAPUIS, 1869; *S. nodifer* REITTER, 1913; *S. triornatus* EICHHOFF, 1881.

Distribution: Fars (ABAI 1980; BROUMAND 1998), Guilan, 1973 and generally distributed in different parts of Iran (ABAI 1984; BEHDAD 1988, 1991; CHOJAI 1968, 1969; FARAHBAKHS 1961; RADJABI 1991).

Host Plant: *Ulmus minor* (BROUMAND 1998).

***Scolytus rugulosus* (MULLER, 1818)**

Syn: *Bostrichus rugulosus* MULLER, 1818; *Scolytus haemorrhous* SCHMIEDEBERGER, 1837; *S. manglisiensis* LEZHAVA, 1940; *S. taxicola* LEZHAVA, 1943.

Distribution: Guilan (AMINI et al. 2013), East Azarbayejan, Kermanshah, Zanjan, Tehran, Hmedan, Isfahan (ABAI 1984; BALACHOWSKY 1963; BAROUGH 1977; BEHDAD 1988; FARAHBAKHS 1961; RADJABI & DASTGHEYB BEHESHTI 1979) and West Azerbaijan (SAMIN et al. 2011).

Host plant: *Prunus domestica*. (SAMIN et al. 2011).

***Scolytus scolytus* (FABRICIUS, 1775)**

Syn: *Bostrichus scolytus* FABRICIUS, 1775; *S. punctatus* MULLER, 1776; *S. niger* GEOFFROY, 1758; *S. destructor* OLIVIER, 1795; *S. ciliaris* REY, 1892; *Dermestes scolytus* SULZER, 1776; *D. geoffroi* GOEZE, 1777.

Distribution: Caspian Sea, Tehran and Azerbayejan (ABAI 1984; BOGATCHEV 1947; CHOJAI 1969; FARAHBAKHS 1961); (BROUMAND 1998).

Host plant: *Ulmus minor*, *Zelkova carpinifolia* (BROUMAND 1998).

***Scolytus amygdali* GUÉRIN-MÉNEVILLE, 1847**

Syn: *Eccoptogaster anatolicus* EGGERS, 1911; *E. aegyptiacus* PIC, 1919; *Scolytus rufipennis* BRANCZIK, 1874.

Distribution: Mazandaran, 2004, (SAMIN et al. 2011), Azarbaejan, Kermanshah and Isfahan (ABAI 1984; BEHDAD 1988; RADJABI 1976, 1991; BROUMAND 1998).

Host plant: *Pyrus* sp. (BROUMAND 1998).

***Scolytus fasciatus* REITTER, 1890c**

Distribution: Mazandaran (FARAHBAKHSI 1961, RADJABI 1991).

Host plant: *Prunus* sp., *Ulmus minor* (RADJABI 1991).

***Scolytus pygmaeus* (FABRICIUS, 1787)**

Syn: *Bostrichus pygmaeus* FABRICIUS, 1787; *Scolytus armatus* COMOLLI, 1837.

Distribution: Guilan (AMINI et al. 2013), Golestan (SAMIN et al. 2011).

Host plant: *Ulmus minor* (AMINI et al. 2013).

***Scolytus kirschi* SKALITZKY, 1876**

Distribution: Southern (ABAI 1984; BEHDAD 1988; RADJABI 1991) and West Azerbaijan province, 2005 (SAMIN et al. 2011).

Host plant: *Fagus sylvatica*.

Tribe Xyleborini LECONTE, 1876

Genus *Anisandrus* FERRARI, 1867

Type species *Apate dispar* FABRICIUS, 1792

***Anisandrus dispar* (FABRICIUS, 1792)**

Syn: *Bostrichus brevis* PANZER, 1793; *B. pallidus* PANZER, 1793; *B. tachygraphus* SAHLBERG, 1834; *Xyleborus rugulosus* EGGERS, 1922; *X. cerassi* EGGERS, 1937.

Distribution: Golestan, 2004, Mazandaran, 2007 and Guilan, 2008 (SAMIN et al. 2011).

Host plant: *Corylus avellana*, *Populus nigra*, *Carpinus betulus*.

Genus *Xyleborus* EICHHOFF, 1864

Type species *Bostrichus monographus* FABRICIUS, 1792

***Xyleborinus saxesenii* (RATZEBURG, 1837)**

Syn: *Bostrichus saxesenii* RATZEBURG, 1837; *Xyleborus sorbinus* EICHHOF, 1857; *X. pecanus*

HOPKINS, 1915; *X. cinctipennis* SCHEDL, 1980; *X. frigidus* BLACKBURN, 1885; *X. pseudogracilis* SCHEDL, 1937; *X. aesculi* FERRARI, 1867.

Distribution: Generally distributed in different parts of Iran (ABAI 1984; BALACHOWSKY 1963; BEHDAD 1988; RADJABI & DASTGHEYB BEHESHTI 1979).

Host plant: *Ulmus minor*, *Quercus* sp. *Acer* sp.

***Xyleborus dryographus* (RATZEBURG, 1837)**

Syn: *Bostrichus angustatus* STURM, 1826; *Xyleborus sampsoni* DONISTHORPE, 1940; *Xyleborus donisthorpi* SCHEDL, 1961.

Distribution: Unknown (LÖBL & SMETANA 2011).

Host plant: Unknown.

***Xyleborus dispar* FABRICIUS, 1792**

Syn: *Apate dispar* FABRICIUS, 1792; *Bostrichus dispar* HERBST, 1793; *B. brevis* PANZER, 1793; *B. ratzburgi* KOLENATI, 1846; *Tomicus dispar* THOMSON, 1857; *T. pyri* HARRIS, 1825; *Xyleborus dispar* EICHHOFF, 1864; *X. cerassi* EGGERS, 1937.

Distribution: Guilan, 1977 (BOROUMAND 1988), Golestan, 2004, Mazandaran and Guilan, 2008 (SAMIN et al., 2011).

Host plant: *Corylus avellana*, *Populus nigra*, *Carpinus betulus* (BOROUMAND 1988).

***Xyleborus eurygraphus* (RATZEBURG, 1837)**

Syn: *Bostrichus impressus* GRAVENHORST, 1826

Distribution: East Azerbaijan, 2007 (SAMIN et al. 2011).

Host plant: *Pinus brutia* (SAMIN et al. 2011).

Tribe Crypturgini LECONTE, 1876

Genus *Crypturgus* ERICHSON, 1836

Type species *Bostrichus pusillus* GYLLENHAL, 1813

***Crypturgus cinereus* (HERBST, 1793)**

Syn: *Bostrychus minutus* DUFTSCHMID, 1828; *B. minutus* DUFTSCHMID, 1828; *Hylesinus tenerrimus* SAHLBERG, 1836; *Crypturgus atticus* EGGERS, 1911.

Distribution: Ardabil, 2006 and East Azerbaijan, 2007 (SAMIN et al., 2011).

Host plant: *Picea orientalis*, *Cedrus libani* (SAMIN et al. 2011).

***Crypturgus dubius* EICHHOFF, 1871**

Syn: *C. mediteraneus* SCHEDL, 1966.

Distribution: Guilan, 2008 (SAMIN et al. 2011).

Host plant: *Pinus sylvestris* (SAMIN et al. 2011).

***Crypturgus numidicus* FERRARI, 1867**

Syn: *Crypturgus cinereus* EICHHOFF, 1818; *C. brevipennis* REITTER, 1913; *C. barbeyi* STROHMEYER, 1929.

Distribution: Golestan 2004 (SAMIN et al. 2011).

Host plant: *Pinus pinea* (SAMIN et al. 2011).

Tribe Xyloterini LECONTE, 1876

Genus *Trypodendron* Stephen, 1830

Type species *Dermestes domesticus* LINNAEUS, 1758

***Trypodendron signatum* (FABRICIUS, 1792)**

Syn: *Trypodendron obtusum* EGGERS, 1939; *T. suturale* EGGERS, 1933; *Bostrichus quinquelineatus* ADAMS, 1827; *B. waringi* CURTIS, 1840.

Distribution: Different part of Iran (LÖBL & SMETANA 2011).

Host plant: Unknown.

Genus *Xyloterus* ERICHSON, 1836

Type species *Bostrichus lineatus* OLIVIER, 1795

***Xyloterus signatus* FABRICIUS, 1792**

Syn: *Apate signatus* FABRICIUS, 1792; *A. limbata* PAYKULL, 1800; *Bostrichus quinquelineatus* ADAMS, 1827; *B. waringi* CURTIS, 1840; *Xyloterus lineatus* BACH, 1854.

Distribution: Guilan province (BOROUMAND 1998).

Host plant: *Quercus* sp. (BOROUMAND 1998).

***Xyloterus lineatus* (OLIVIER, 1795)**

Syn: *Bostrichus lineatus* OLIVIER, 1795; *B. cavifrons* MANNERHEIM, 1843; *B. domesticus* DUFTCHMID, 1825; *Xyloterous bivittatus* MANNERHEIM, 1855; *Trypodendron lineatum* EICHHOFF, 1878; *T. cavifrons* SWAINE, 1918; *T. meridionale* EGGERS, 1940.

Distribution: West Azerbaijan province, 2005 (SAMIN et al. 2011).

Host plant: Unknown.

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