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## RESEARCH ARTICLE

### Taxonomic, nomenclatural, distributional and biological study of the genus *Agrilus* (Coleoptera: Buprestidae)

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**Abstract:** One hundred sixty eight taxa of the genus *Agrilus* (Coleoptera, Buprestidae) mostly from the Palearctic and Oriental regions are studied and their taxonomic, nomenclatural, distributional or biological data are updated. The following new taxonomic or nomenclatural acts are proposed. The status of four taxa is changed: *Agrilus grandiceps hemiphanes* Marseul, 1866 is changed from subspecies to species *Agrilus hemiphanes* **stat. nov.**; *Agrilus lopatini* Alexeev, 1964 is changed from species to subspecies *Agrilus araxenus lopatini* **stat. nov.**; the specific name *hermineus* Abeille de Perrin, 1907 is removed from the synonymy of *A. lineola* as a name of subspecies *Agrilus lineola hermineus* **revalidated name, stat. nov.**; *Agrilus validiusculus* Semenov, 1891 is changed from species to subspecies *Agrilus transversesulcatus validiusculus* **stat. nov.**. The following fifteen new synonyms are proposed: *grusinus* Obenberger, 1917 **syn. nov.** (synonym of *A. transversesulcatus* Reitter, 1890); *hassani* Théry, 1930 **syn. nov.** (synonym of *A. proteus* Abeille de Perrin, 1893); *ieiunulus* Obenberger, 1936 **syn. nov.** (synonym of *A. transversesulcatus validiusculus* Semenov, 1891); *italicus* Obenberger, 1920 **syn. nov.** (synonym of *A. cyanescens* Ratzeburg, 1837); *jxtasuturalis* Abeille de Perrin, 1897 **syn. nov.** (synonym of *A. transversesulcatus* Reitter, 1890); *niveosignatus* Obenberger, 1914 **syn. nov.** (synonym of *A. transversesulcatus validiusculus* Semenov, 1891); *panchlorus* Abeille de Perrin, 1897 **syn. nov.** (synonym of *A. curtulus* Mulsant & Rey, 1863); *perparvus* Obenberger, 1918 **syn. nov.** (synonym of *A. roscidus* Kiesenwetter, 1857); *philippovi* Alexeev, 1965 **syn. nov.** (synonym of *A. vaginalis* Abeille de Perrin, 1897); *populneus* Schaefer, 1946 **syn. nov.** (synonym of *A. suvorovi* Obenberger, 1935); *rosei* Niehuis & Bernhard, 2005 **syn. nov.** (synonym of *A. viridis* Linné, 1758); *shamyl* Obenberger, 1922 **syn. nov.** (synonym of *A. lineola hermineus* Abeille de Perrin, 1907); *suturisignatus* Obenberger, 1924 **syn. nov.** (synonym of *A. transversesulcatus* Reitter, 1890); *tetrastichus* Obenberger, 1924 **syn. nov.** (synonym of

*A. fissifrons* Fairmaire, 1849) and *tifliscus* Obenberger, 1936 **syn. nov.** (synonym of *A. transversesulcatus* Reitter, 1890). *Agrilus grandiceps* Kiesenwetter, 1857 is a **dubious name** of unknown taxonomic concept due to lack of the primary type. The following twenty-seven lectotypes of nominal taxa are designated: *A. affectans* Obenberger, 1923; *A. alacris* Kerremans, 1896; *A. fidjiensis* Obenberger, 1924; *A. grusinus* Obenberger, 1917; *A. hassani* Théry, 1930; *A. hermineus* Abeille de Perrin, 1907; *A. hypericicola* Abeille de Perrin, 1893; *A. ieinulus* Obenberger, 1936; *A. limoniastri* Bedel, 1886; *A. mephistopheles* Abeille de Perrin, 1897; *A. morio* Kerremans, 1895; *A. beauprei mourguesi* Schaefer, 1954; *A. nigrivestis* Abeille de Perrin, 1897; *A. niveosignatus* Obenberger, 1914; *A. panchlorus* Abeille de Perrin, 1897; *A. perparvus* Obenberger, 1918; *A. proteus* Abeille de Perrin, 1893; *A. roscidus* Kiesenwetter, 1857; *A. rumanicus* Obenberger, 1924; *A. shamyl* Obenberger, 1922; *A. subroscidus* Obenberger, 1924; *A. suturisignatus* Obenberger, 1924; *A. suvorovi* Obenberger, 1935; *A. fidjiensis tetrastichus* Obenberger, 1924; *A. tifliscus* Obenberger, 1936; *A. transversesulcatus* Reitter, 1890 and *A. validiusculus* Semenov, 1891. Additionally, the geographical range or host plant data are updated or revised for many taxa. The North American *Agrilus bilineatus* (Weber, 1801) is recorded from a single record from Turkey which is the first introduction of a Nearctic *Agrilus* to the Palearctic fauna.

**Key words:** Taxonomy, new synonyms, new status, revalidation, distribution, biology.

## Introduction

*Agrilus* with more than 3000 valid taxa in a single genus belongs to the most taxonomically demanding of insect genera. The taxonomy of many species is still unsettled, many species-groups need revision and all subgenera are pending critical re-examination and re-definition. The data on distribution and biology of many species are provisional and incomplete.

This work belongs to the series of studies on the buprestid genus *Agrilus* Curtis, 1825 resulting from the study of the type material and determination of extensive numbers of specimens mostly from the Palearctic and Oriental regions.

## Material and methods

**Format.** Studied taxa are cited alphabetically. The format of distributional records under Examined specimens is as follows: Country: [County Province]: locality; coordinates; Month-Year; altitude; Adult or Larval host; number of specimens [sex] (Collection). The presence of particular entries for each record depends on the completeness of original locality data. Coordinates are either original or derived from original data (if possible). Only the original altitude (if available) is cited. Records from the same locality are grouped together. Records are separated by En dash “–”.

**Biology.** Host plants cited under Examined specimens are summarized by the larval and adult host plant under Host plants cited.

**Distribution.** The distribution is organized alphabetically by continent, country and at some countries also by the first level administrative unit.

**Taxonomic and nomenclatural acts.** All taxonomic or nomenclatural acts are highlighted in bold and summarized in the abstract. The inscription new synonym (**syn. nov.**) doesn't necessarily mean that the name is synonymized for the first time. It highlights the new taxonomical act of a name's entering or re-entering synonymy of a particular taxon. Also

junior subjective synonym transferred from the synonymy of one taxon to the synonymy of another taxon is highlighted as a new synonym. Remarks and additions are in square brackets [ ]; handwritten [h]; printed [p], verbatim text “”, separate labels \.

**Lectotype designations.** All lectotypes and all available paralectotypes designated herein were provided by the red printed label: Lectotype (or Paralectotype), taxon name in original generic combination, E. Jendek designed, Year.

**Mapping.** Maps were generated by exporting distributional data from the relational database MS Access to Esri ArcMap program. The maps display distributional range compiled from published sources (indicated by hatching) as well as examined specimens (indicated by triangles).

## Acronyms

APKU	Ukraine, Kiev, Collection A. V. Prokhorov
ASAY	Armenia, Yerevan, Academy of Science of Armenia
BMNH	United Kingdom, London, The Natural History Museum
CNC	Canada, Ontario, Ottawa, Canadian National Collection of Insects
DEI	Germany, Eberswalde Finow, Deutsches Entomologisches Institut
DGCC	Italy, Castelnuovo Don Bosco, Collection D. Gianasso
EJCB	Slovak Republic, Bratislava, Collection E. Jendek
EKCS	Czech Republic, Soběslav, Collection E. Kučera
FACF	Italy, Francavilla Fontana, Collection F. Angelini
HHCR	Germany, Rain, Collection H. Hebauer
HNHM	Hungary, Budapest, Hungarian Natural History Museum
ISCK	Slovakia, Košice, Collection I. Smatana
ISNB	Belgium, Brussels, Institut royal des Sciences naturelles de Belgique
ITCN	Czech Republic, Velké Němčice, Collection I. Trojan
IZAS	China, Beijing, Academia Sinica, Institute of Zoology
JMCB	Hungary, Budapest, Collection J. Muskovits
JVCO	Czech Republic, Ostrava, Collection J. Vávra
MCCD	Russia, Donskoe, Collection M. N. Curikov
MDCM	Russia, Moscow, Collection M. Danilevski
MHNG	Switzerland, Geneva, Muséum d'Histoire Naturelle
MKCY	Armenia, Yerevan, Collection M. Kalashian
MNCA	Germany, Albersweiler, Collection M. Niehuis
MNHE	Estonia, Tallin, Estonian Museum of Natural History
MNHN	France, Paris, Muséum National d'Histoire Naturelle
MSCI	Russia, Ivanovo, Collection M. E. Smirnov
MZUF	Italy, Firenze, Museo Zoologico “La Specola”
NHRS	Sweden, Stockholm, Naturhistoriska riksmuseet
NMPC	Czech Republic, Prague, National Museum
NSMT	Japan, Tokyo, National Science Museum
PMCL	Czech Republic, Litoměřice, Collection P. Moravec
RKCK	Poland, Kluczbork, Collection R. Królik.
SWBU	USA, Texas, Bastrop, Collection S. G. Wellso
TSCO	Czech Republic, Ostrava, Collection T. Sitek
USDA	USA, Maryland, Beltsville, United States Department of Agriculture
USNM	USA, Washington D.C., National Museum of Natural History
VKCB	Czech Republic, Brno, Collection V. Kubáň

VNCO	Russia, Orenburg, Collection V. A. Nemkov
ZIN	Russia, St. Petersburg, Russian Academy of Sciences, Zoological Institute
ZMUM	Russia, Moscow, Moscow State University
ZMUN	Norway, Oslo, University of Oslo, Zoological Museum
ZRC	Singapore, National University, Raffles Museum, Zoological Reference Collection
ZSMC	Germany, München, Zoologische Staatssammlung

## Results

### *Agrilus acutus* (Thunberg, 1787)

**Examined specimens:** INDIA. Tamil Nadu: Nagapatnam; 10°46'N, 079°50'E; 4 (USNM) – State Rumil; 10-2000; alt. 762 m; 3 (MNCA). West Bengal: Calcutta; 22°35'06"N, 088°22'56"E; 10-1958; 1 (USNM). INDONESIA. Java: Jampang Wetan; 07°05'14"S, 106°53'E; 4-1940; alt. 550 m; 1 (EJCB) – Java; 2-1957; 2 (USNM). Lesser Sunda: Bali; 8°20'S, 115°00'E; 1-2005; 1 ♂ (EJCB) – Baun, 27 km SE of Kupang, S. Timor; 10°18'02"S, 123°42'35"E; 12-2005; 1 ♂ (CNC). Papua: Adadikam; 00°57'43"S, 135°47'38"E; 12-2006; Adult host: *Carica*; 1 ♀ (CNC). Sulawesi: Kasiputih [= Kasipute]; 4°46'S, 122°03'E; 5-1997; 1 (MKCY). Sumatra: Siantar [= Pematangsiantar]; 02°57'36"N, 099°03'36"E; 1937; 1 (USNM). SRI LANKA. Inginiyagala; 07°12'47"N, 081°32'35"E; 6-1975; 1 (USNM) – Kurunegala, Athugala (Elephant Rock), Kur. Distr.; 1-1975; 2 (USNM) – Padaviya Tank; 08°49'33"N, 080°45'26"E; 3-1976; alt. 55 m; 1 (USNM) – Polonnaruwa; 07°56'02"N, 081°00'E; 6-1975; 1 (USNM).

**Host plants cited:** Adult host: *Carica*.

### *Agrilus adelphinus* Kerremans, 1895

**Examined specimens:** CHINA. Shanxi: S. Shensi [= South Shanxi]; 36°13'58"N, 111°58'56"E; 5-1904; 3 (USNM).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

### *Agrilus adlbaueri* Niehuis, 1987

**Examined specimens:** SYRIA. Al Ladhīqiyah: Jabal An-Nusayriah, Slinfah env.; 35°35'N, 36°11'E; 5-2002; alt. 1200 m; 4 (EJCB); 2010; 2 (EJCB) – Slinfeh [= Slinfah], Jabal al-Asariyah Mts.; 35°35'N, 36°11'E; 5-1995; alt. 1200 m; 7 (EJCB). TURKEY. Adana: Guksun [= Göksun] - Doğanbeyli; 38°07'57"N, 036°07'58"E; 6-2001; 1 ♀ (EJCB). Antalya: Elmali, Avlanbelli gec.; 36°44'20"N, 029°55'04"E; 5-2002; alt. 1120 m; 1 (EJCB). Çanakkale: Çanakkale; 40°07'57"N, 026°25'28"E; 6-1991; 1 (EJCB). Gaziantep: Adana - Gaziantep, Nurdagi Gecidi; 37°11'31"N, 036°37'22"E; 6-1992; alt. 1200 m; 4 (EJCB) – Yesemek, 20 km SE of Islahive; 36°54'19"N, 036°44'28"E; 5-2002; 1 ♂ (EJCB). Mersin: Erdemli-Aslanli [= Arslanli], Toros Daglari Mts.; 36°41'39"N, 034°09'50"E; 6-1997; alt. 11000 m; 1 (EJCB). Kahramanmaraş: North Tarsus, Tekir; 37°53'N, 036°37'21"E; 6-1992; 1 (EJCB). Kastamonu: N Yaraligöz, Gecidi pass near Kastamonu; 41°46'N, 034°04'E; 6-2006; alt. 1333 m; 1 (EJCB). Kütahya: Kütahya, Porsuk Bj.; 39°23'23"N, 029°58'51"E; 5-2001; 1 ♂ (EJCB). Osmaniye: Hasanbeyli; 37°07'53"N, 036°33'26"E; 6-1991; 1 ♂ (EJCB); 6-1994; alt. 1200 m; 1 (EJCB) – Hasanbeyli env., Nurdağı Geçidi; 37°07'55"N, 036°33'24"E; 6-2002; 1 (EJCB) – Nur (Amanus) Dagl. Mts., Hasanbeyli; 37°07'55"N, 036°33'24"E; 6-1991; 1 ♂ (EJCB).

***Agrilus agnatus* Kerremans, 1892**

**Examined specimens:** CHINA. Yunnan: Mt. Huanglianshan, Lüchun county; 22°47'41"N, 102°14'30"E; 6-2008; 1 (HHCR) – Xishuanbanna, 23 km N Jinghong, Naba Village; 22°02'30"N, 100°52'06"E; 6-2008; alt. 700 m; 1 ♀ (MNCA) – Xishuanbanna, 45 km SW Jinghong, vic. Bangzhang vill.; 21°44'22"N, 100°27'01"E; 5-2009; alt. 1600-1700 m; 1 ♀ (MNCA). LAOS. Houaphan: 38 km S of Sam Neua Saleui; 20°12'30"N, 104°00'E; 5-2009; alt. 1350-1900 m; 1 ♀ (MNCA) – Ban Saleuy, Phou Pane Mt.; 20°13'N, 104°00'E; 5, 6-2009; alt. 1340-1870 m; ~75 (NMPC) – Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4, 5-2010; alt. 1300-1900 m; 2 (USNM); 5-2011; alt. 1300-1900 m; 3 (USNM) – Ban Saleuy, Phou Pane Mt.; 20°12'30"N, 104°00'E; 6-2011; alt. 1340-1870 m; 60 (NMPC). VIETNAM. Lao Cai: Hoang Lien Nat. Park, Sa Pa pass; 22°19'48"N, 103°50'24"E; 5, 6-2011; alt. 1900 m; 1 (MZUF).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus alacris* Kerremans, 1896**

**Type material:** This species was described from an unstated number of syntypes from Sumatra. The single type found in BMNH is designated here as a lectotype. The lectotype of *Agrilus alacris* Kerremans **by present designation**, ♀, BMNH: “Type [p] [round label with red border] \ Sumatra Manuf. Tabacs [h] \ alacris Kerrem. Type [h] \ Kerremans 1903-59 [p] \ A. alacris Kerrem. Sumatra [h]”.

***Agrilus alashanensis* Obenberger, 1936**

**Examined specimens:** CHINA. Beijing: Yanqing County, Badaling; 40°21'53"N, 115°58'19"E; 8-1972; 1 (IZAS).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus albogularis albogularis* Gory, 1841**

**Examined specimens:** RUSSIA. North Ossetia: Nizhnii Unal; 42°51'N, 044°08'E; 7-2007; 1 ♀ (ZIN). Volgograd: E bank of lake Bulukhta; 49°21'N, 045°59'E; 8-2006; 1 ♀ (MKCY) – Vodnij env.; 48°37'N, 044°22'E; 7-1986; 2 (MKCY) – Volgograd, Gorodishsche; 48°27'N, 044°27'E; 8-1985; 4 (MKCY). Voronezh: Kantemirovsky District, Pisarevka; 49°53'22"N, 040°11'06"E; 7-1984; 1 (MCCD).

***Agrilus alesi* Obenberger, 1935**

**Examined specimens:** VIETNAM. Cao Bang: Phia-Oac Mts, Phia-Den env.; 22°34'01"N, 105°52'14"E; 4, 5-2012; alt. 900-1200 m; 1 ♂ (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus alpenae* Baudon, 1968**

**Examined specimens:** CHINA. Hainan: Baisha County, Maola; 18°57'11"N, 109°23'02"E; 5-2009; alt. 1261 m; 1 (IZAS). LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4, 5-2010; alt. 1300-1900 m; 60 (USNM).

***Agrilus angustulus angustulus* (Illiger, 1803) Fig. 1A**

**Examined specimens:** AZERBAIJAN. Mirik env., Lachinskii r-n; 6-1980; alt. 1700 m; 1 ♂ (ZIN) – Pirguli [= Pirgulu] Nature Reserve, near vill. Sis, forest's edges; 40°46'10"N,

048°33'55"E; 7-2004; 1 ♂ (ZIN). BULGARIA. Melnik env.; 41°31'26"N, 023°23'27"E; 6-1974; 1 (EJCB). CROATIA. Pazin; 5-2002; 1 ♂ (EJCB) – Poreč; 45°13'49"N, 013°36'14"E; 5-2002; 1 ♂ (EJCB). GEORGIA. Mestia; 43°02'N, 042°43'E; 7-1987; 1 ♂ (MNHE). Abkhazia: Pskhu vill.; 43°22'N, 040°48'E; 6-1984; alt. 800 m; 3 ♂ (MKCY). IRAN. Mazandaran: 20 km SE di Bandar-e Gaz; 36°37'34"N, 053°49'19"E; 6-2003; alt. 1600 m; 10 (DGCC). RUSSIA. Krasnodar: Adler; 43°25'N, 039°55'E; 7-1987; 1 ♀ (MNHE) – Gorjatchiy Kljutch env.; 44°37'N, 039°07'E; 4-1998; 1 (MSCI) – Kaluzhskaya; 6-1978; 1 ♂ (ZIN) – Leningradskaya; 46°18'N, 39°22'E; 5-2003; 2 (FACF). Lipetsk: 15 km SEE Ysman'; 51°59'N, 39°56'E; 6-1996; 1 (MCCD) – Khlevensky District, Kreshchenka; 52°03'20"N, 039°00'52"E; 7-1982; 1 (MCCD). Orenburg: Belyy Klyuch, 51°43'N, 053°33'E; 5-1950; Larval host: *Quercus*; 1 ♀ (ZIN). Primorye: Ryazanovka; 42°47'N, 131°15'E; 6-1991; 1 ♂ (EJCB). Rostov: Chertkovo; 49°23'N, 40°16'E; 6-2003; 1 (FACF). Saratov: Beesonovka env.; 52°10'N, 046°01'E; 6-2008; 3 ♀ (EJCB). Stavropol: Zheleznovodsk env.; 44°08'N, 043°01'E; 6-2007; 1 (MSCI). Vladimir: Litvinovo vill., Koltshugino dist.; 56°18'N, 039°24'E; 6-1997; 1 (MSCI). Voronezh: Savalskiy Les; 51°40'09"N, 041°31'54"E; 6-1950; 50 (ZIN). SLOVAKIA. Dolné Vestenice; 48°42'N, 18°24'E; 6, 7-2001; 8 (EJCB) – Malá Bara; 48°25'N, 21°43'E; 5-2002; 8 (ISCK) – Tarbucka; 48°21'57"N, 021°46'59"E; 5-2002; 15 (ISCK). SLOVENIA. Petrinje, Podgorski Kras Mts, ex larva; 45°33'N, 13°53'E; 2000; 1 (JVCO). UKRAINE. Spartak; 7-2001; 5 (FACF). Crimea: Verkhnyaya Kutuzovka, Alushta dist.; 44°43'N, 034°22'E; 6-1996; 1 (MSCI). Dnipropetrovsk: Andreevka, Novomoskovsky dist.; 48°45'N, 035°27'E; 7-1993; 1 (MSCI).

**Host plants cited:** Larval host: *Quercus*.

***Agrilus angustulus bicoloratus* Abeille de Perrin, 1894** Fig. 1A

**Examined specimens:** ALGERIA. Annaba: 15 km of Annaba, Seraidi; 36°56'48"N, 007°37'53"E; 6-1983; 1 ♂ (EJCB) – Mt Edough; 36°53'10"N, 007°36'37"E; 6 (MNHN). Skikda: Dorsale di Collo; 36°59'59"N, 006°33'20"E; 5-1980; 1 ♂ (EJCB). Tizi Ouzou: Kabylie, sur Azazga, 600 m; 36°44'49"N, 004°22'06"E; 5-1988; alt. 600 m; 1 (EJCB). MOROCCO. Meknes-Tafilalet: Moyen Atlas mts, 20 km NE Khenifra; 32°59'15"N, 005°29'06"W; 6-2008; alt. 1550 m; 4 (EJCB) – Moyen Atlas mts, 32 km E Khenifra, Boumzil env.; 32°55'N, 005°22'W; 6-2008; alt. 1780 m; 1 (EJCB) – Moyen Atlas mts, W Khenifra, Boumzil; 32°55'10"N, 005°22'W; 5-2009; alt. 1800 m; 2 (EJCB). Taza-Al Hoceima-Taounate: Taza nat. Parc, Gouffre [= Grotte] du Friouato env.; 34°06'04"N, 004°04'26"W; 6-1998; 1 (EJCB) – Tazekka Nat. Park., Bab Bou [= Bab Boudir] env.; 34°04'08"N, 004°07'14"W; 5, 6-1999; 1 ♂, 1 ♀ (EJCB). SPAIN. Andalucía: La Almoraima; 36°16'44"N, 005°25'44"W; 5-1966; 2 (MHNG). TUNISIA. Jendouba: Camp des Chenes, 35 km S of Tabarka; 36°44'N, 008°41'E; 5-1995; 6 (EJCB).

**Remarks:** This North African subspecies is distinguished from the nominotypical subspecies by the bicolored dorsal side though unicolor forms are also present. The pronotum is golden-green or golden-red, elytra are green or blue. Similar bicolored specimens were found in south Spain. Obenberger's (1931) record for "Abessynia [Ethiopia]" without supporting data needs verification.

***Agrilus antiquus antiquus* Mulsant & Rey, 1863**

**Examined specimens:** FRANCE. Aquitaine: Sos; 44°02'N, 0°08'E; 1 (MHNG). Provence-Alpes-Côte d'Azur: Escagnolles; 43°44'N, 06°46'E; 7-1945; 1 (MHNG). ITALY. Liguria: Bracco; 44°14'N, 09°30'E; 7-1970; 1 (MHNG) – Genoa; 44°25'N, 08°55'E; 6-1922; 1 (MHNG). SWITZERLAND. Suisse; 2 (MHNG). Geneve: S. Tecla Genova; 46°12'N,

006°08'24"E; 6-1922; 1 (MHNG). Schaffhausen: Schaffhouse; 47°43'N, 08°34'E; 1 (MHNG). Zürich: Tösstal region; 47°30'N, 08°38'E; 1 (MHNG).

***Agrilus araxenus araxenus* Yablokov Khnzoryan, 1960** Fig. 1B

**Type material:** The species was described from the holotype and three paratypes from "Armyanskaya SSR: Shatin (Ekhegnadzovskii r-n) [Armenia]". The holotype was studied and is preserved in ASAY.

**Examined specimens:** ARMENIA. Ararat: 5 km w Urtsadzor; 39°55'22"N, 044°46'27"E; 7-1997; 1 ♀ (EJCB) – Abovyan distr., Hatsavan; 40°08'04"N, 044°39'00"E; 7-1996; 2 (MKCY) – Khosrov Forest State Reserve; 40°02'13"N, 044°55'00"E; 8-1992; 1 ♀ (EJCB); 7-1998; 1 ♂, 1 ♀ (EJCB) – Vedi, Khosrov; 39°54'47"N, 044°43'13"E; 7-1989; 3 (MKCY); 7-1991; 2 (ZIN). Syunik': ~ 3 km E Meghri, Artsvakar gorge; 38°56'13"N, 046°14'46"E; 6-2001; 2 (MKCY); 7-2005; 2 (MKCY) 7-2015; 2 (MKCY) – Meghri; 38°54'05"N, 046°14'44"E; 6-1974; 1 (ZIN). Vayoc Jor: Yeghegnadzor, Shatin; 39°45'49"N, 045°19'50"E; 7-1950; 2 (MKCY). AZERBAIJAN. Naxçivan: Arpachay env., Il'ichevsk rayon; 39°38'51"N, 045°05'27"E; 7-1994; 1 (ZIN). TURKEY. Kars: Hwy 080, Aras valley, 24.8 km of Kagizman; 40°07'36"N, 043°23'42"E; 7-2005; alt. 1070 m; 2 (ZIN). TURKMENISTAN. Ahal: 25 km SW Geok-Tepe [= Gokdepe]; 38°05'10"N, 057°41'19"E; 7-1991; Adult host: *Atraphaxis*; 30 (ZIN) – Ilai-Kala, 10 km SE Karaula, Kopetdag; 38°19'43"N, 057°12'31"E; 7-1973; 1 (ZIN); 6-1977; Adult host: *Atraphaxis*; 2 (ZIN) – Kopet Dag Mts., Firjuza (valley); 37°55'04"N, 058°05'32"E; 6-1984; 55 (EJCB). Balkan: 9 km NW Kara-Kala, West Kopet Dag Mountains; 38°28'42"N, 056°11'36"E; 5-1985; Adult host: *Atraphaxis*; 3 (ZIN) – Gorge of Ai-Dere, Karakalinskii [= Махтумкулинский] rayon; 38°30'00"N, 056°25'00"E; 6-1977; Adult host: *Atraphaxis*; 1 (ZIN) – Igdezhik, Kara-Kala env., West Kopet Dag Mountains; 38°25'38"N, 056°17'01"E; 6-1977; Adult host: *Atraphaxis*; 2 (ZIN).

**Host plants cited:** Adult host: *Atraphaxis*.

**Distribution:** Asia: Armenia: Ararat; Iran; Turkey: Kars; Turkmenistan: Ahal, Balkan.

**Remarks:** The nominotypical subspecies has the sculpture of vertex finer and partly shagreened; the tomentose perisutural elytral stripes are poorly marked; the abdomen is covered with sparse setae not concealing background; the color of abdomen is usually coppery-red or violet. See also Remarks under *A. araxenus lopatini*.

***Agrilus araxenus lopatini* Alexeev, 1964 stat. nov.** Fig. 1B

**Type material:** The nominal taxon was described as species *Agrilus lopatini* Alexeev from the holotype and 1 paratype from "Iskander-Dar'ya, Dzhidzhik [= Dizhik, Tajikistan] [in Russian]". The holotype preserved in ZMUM was examined.

**Examined specimens:** KAZAKHSTAN. Almaty oblysy: Qumbasy Sands, 69 km NNW of Qapchaghay [= Kapchagay]; 44°13'43"N, 076°49'25"E; 6-2007; 1 (ZIN) – river Charyn, 35 km SZ Kegen; 43°31'03"N, 079°45'57"E; 7-1987; 1 (ZIN). Ongtüstik Qazaqstan oblysy: 25 km S Suzak, Karatau Range; 44°01'N, 068°13'E; 6-1982; 1 (ZIN) – 25 km SE Suzak, Karatau Range, northeastern slope; 44°01'N, 068°13'E; 6-1987; 1 ♀ (ZIN) – Kentau env.; 43°30'57"N, 068°30'28"E; 4-1994; 1 ♀ (EJCB) – river Arystandy, 40 km E Chili; 43°14'36"N, 069°25'34"E; 6-1982; Adult host: *Caragana*; 3 (ZIN). Qaraghandy oblysy: 3 km W Kyzylzhar; 48°18'44"N, 069°34'51"E; 7-2015; alt. 332 m; 1 ♀ (EJCB). Qyzylorda oblysy: 25 km NE of Zhanokorgan, r. Darvaz; 44°00'31"N, 067°26'30"E; 6-1987; Adult host: *Atraphaxis*; 1 (ZIN) – Karatau Range, 25 km NNE Chiili [= Shieli], Karamurun; 44°17'52"N,



**Figures 1A–1B.** Distribution of *Agrilus*. Triangles indicate locality of examined specimens, hatching indicates compiled range or by distribution. **1A**, *A. angustulus angustulus* (Illiger, 1803) blue color, *A. angustulus bicoloratus* Abeille de Perrin, 1894 red color; **1B**, *A. araxenus araxenus* Yablokov Khnzoryan, 1960 red color; *A. araxenus lopatini* Alexeev, 1964 blue color.



066°56'06"E; 7-1981; Adult host: *Caragana*; 12 (ZIN). Shyghys Qazaqstan oblysy: Balkash lake, 70 km E of Sayak; 47°13'59"N, 078°24'18"E; 7-1983; Adult host: *Caragana*; 6 (ZIN). Zhambyl oblysy: 55 km E Khantau; 44°14'12"N, 074°29'33"E; 6-1987; Adult host: *Caragana*; 2 (ZIN) – 60 km N Furmanovka; 44°59'25"N, 073°03'30"E; 6-1987; 2 (ZIN). KYRGYZSTAN. Talas: 10 km N of Kirovskoe, Ichkeletau [= Echkilyuu-Too] Mountains; 42°40'08"N, 071°35'51"E; 7-1982; Adult host: *Atraphaxis*; 4 (ZIN). UZBEKISTAN. Surxondaryo: 35 km SE of Denau, Babatag Mt.; 38°08'22"N, 068°07'12"E; 5-1982; Adult host: *Atraphaxis*; 2 (ZIN).

**Host plants cited:** Adult host: *Atraphaxis*, *Caragana*.

**Distribution:** Asia: Kazakhstan: Almaty oblysy, Ongtüstik Qazaqstan oblysy, Qaraghandy oblysy, Qyzylorda oblysy, Shyghys Qazaqstan oblysy, Zhambyl oblysy; Kyrgyzstan: Talas; Tajikistan: Sughd; Uzbekistan: Surxondaryo.

**Remarks:** Originally, the most similar species to *A. lopatini* was cited *A. validiusculus*, which indicates that *A. araxenus* was unknown to Alexeev at the time of description. The result of examination of extensive material supports the subspecific concept of this taxon, which differs just by sculpture, pubescence or tomentum. The subspecies *A. araxenus lopatini* has the sculpture of vertex coarser and not shagreened; the tomentose perisutural elytral stripes are well marked along entire length; the abdomen is covered with dense tomentose setae nearly concealing background; the color of abdomen is usually greenish or greenish-bronze. See also Remarks under *A. araxenus araxenus*.

#### *Agrilus asahinai* Kurosawa, 1956

**Examined specimens:** RUSSIA. Primorye: Anisimovka - 10 km env.; 43°10'12"N, 132°47'13"E; 6-2014; alt. 250-1200 m; 7 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### *Agrilus asiaticus* Kerremans, 1898

**Examined specimens:** CHINA. Hubei: Dabieshan; 31°07'06"N, 115°48'57"E; 6-2008; alt. 640 m; 1 ♀ (CNC). Shaanxi: Tongchuan City, Jiaoping; 34°54'N, 108°57'E; 6-1978; Adult host: *Quercus*; 1 (IZAS). LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4, 5-2010; alt. 1300-1900 m; 260 (USNM); 5-2011; alt. 1300-1900 m; 88 ♂, 62 ♀ (USNM) – Ban Saleuy, Phou Pane Mt.; 20°12'30"N, 104°00'E; 6-2011; alt. 1340-1870 m; 110 (NMPC). MYANMAR. Mandalay: Kyaukpadaung; 20°50'24"N, 095°07'48"E; 6-2009; 1 ♀ (EJCB).

**Host plants cited:** Adults host: *Quercus*.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### *Agrilus ater* (Linné, 1767)

**Examined specimens:** KAZAKHSTAN. Batys Qazaqstan oblysy: Uralsk; 51°13'54"N, 051°23'32"E; 5-1906; 1 (ZIN). RUSSIA. Krasnodar: Taman' Peninsula, Dubovyi, Rynok Hill near Temryuk; 7-2008; 1 (ZIN). Vladimir: Zhuravlikha vill., Koltschugino dist.; 56°19'N, 039°25'E; 7-1999; 1 (MSCI). UKRAINE. Dnipropetrovs'k: Kirovskoje; 48°31'N, 034°50'E; 6-1993; 1 (MSCI).

#### *Agrilus auricollis* Kiesenwetter, 1857

**Examined specimens:** ALBANIA. Durrës: Krujë, Paß ca. 5 km ne Krujë; 41°31'12"N, 019°47'39"E; 5-1993; alt. 700-900 m; 1 (EJCB). AUSTRIA. Tyrol; 1 ♀ (EJCB). BULGARIA. Javorov [= Peyu Yavorov]; 41°45'N, 023°09'15"E; 5-1984; 50 (EJCB).

CZECH REPUBLIC. Polanka nad Odrou, Moravia; 49°46'N, 18°09'E; 7-1997; 1 (TSCO); 6-1998; 7 (TSCO). ITALY. Roma; 41°54'16"N, 012°30'06"E; 3 (NMPC). SLOVAKIA. Kuchyňa vill. env.; 48°24'N, 017°09'E; 2, 3-2002; Adult host: *Ulmus*; 12 (EJCB). SLOVENIA. Gozd Martuljek; 46°28'57"N, 013°50'30"E; 5-2004; alt. 720 m; 1 ♂ (EJCB).

**Host plants cited:** Adult host: *Ulmus*.

***Agrilus aurigaster* Jendek, 2011**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4, 5-2010; alt. 1300-1900 m; 2 (USNM).

***Agrilus aurithorax* Jendek, 2011**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4, 5-2010; alt. 1300-1900 m; 2 (USNM).

***Agrilus auriventris* Saunders, 1873**

**Examined specimens:** LAOS. Houaphan: 38 km S of Sam Neua, Saleui; 20°13'N, 104°00'E; 5-2009; alt. 1350-1900 m; 1 ♀ (MNCA) – Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 5-2011; alt. 1300-1900 m; 1 (EJCB); 6 (USNM) – Ban Saleuy, Phou Pane Mt.; 20°12'30"N, 104°00'E; 6-2011; alt. 1340-1870 m; 10 (NMPC).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011) and Jendek (2013a).

***Agrilus auropictus* Kerremans, 1912**

**Examined specimens:** JAPAN. Kyushu: Kagoshima; 31°34'12"N, 130°32'24"E; 6-1979; 1 (USNM).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus barrati* Descarpentries & Villiers, 1963**

**Examined specimens:** CHINA. Guangdong: Nankushan NP; 23°38'24"N, 113°54'E; 5-2004; 1 ♂ (EJCB). Yunnan: Xishuangbanna, Menghai County, Menghai; 22°01'12"N, 100°36'E; 5-1958; alt. 1050-1080 m; 1 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus beauprei mourguesi* Schaefer, 1954**

**Type material.** *Agrilus beauprei mourguesi* was described from four syntypes from “Hérault: Les Matelles ... Pyrénées-Orientales: Argèles-sur-Mer, près la plage”. The lectotype is designated from two syntypes found in Schaefer’s collection preserved in MNHN. The lectotype of *A. beauprei mourguesi* Schaefer **by present designation**, ♂, MNHN: “Argelès (P.O) 18.6.53 [h] L. Schaefer [p] \ ♂ [p] \ Mourguesi [h] \ Type [p] [red label]”. The locality of lectotype “Argelès [France]” becomes the type locality of this taxon. The paralectotype comes from the same locality as the lectotype.

***Agrilus betuleti* (Ratzeburg, 1837)**

**Examined specimens:** CHINA. Xinjiang: Fuwen; 7-1960; alt. 1200 m; 1 (IZAS). CZECH REPUBLIC. Moravskoslezský kraj: Ostrava; 49°49'N, 018°16'E; 1993; 2 (EJCB). FRANCE. Rhône-Alpes: Villars; 45°27'N, 004°21'E; 6-1944; 3 (EJCB). RUSSIA. Primorye:

Anisimovka - 10 km env.; 43°10'12"N, 132°47'13"E; 6-2014; alt. 250-1200 m; 16 (EJCB). SLOVAKIA. Tomky; 48°34'23"N, 017°15'25"E; 6-1993; 2 (EJCB). SWEDEN. Sweden; 1 ♀ (EJCB).

***Agrilus bifoveolatus* Kerremans, 1895**

**Examined specimens:** INDIA. Arunachal Pradesh: Hunli vicinity; 28°19'32"N, 095°57'31"E; 5, 6-2012; alt. 1200-1400 m; 1 ♀ (EJCB). Meghalaya: 3 km E of Tura; 25°30'N, 90°14'E; 5-1999; alt. 500-1150 m; 1 (EKCS).

**Remarks:** For additional examined specimens see Jendek (2000) and Jendek & Grebennikov (2011).

***Agrilus biguttatus* (Fabricius, 1777)**

**Examined specimens:** ALGERIA. Annaba: 15 km of Annaba, Seraidi; 36°56'48"N, 007°37'53"E; 6-1983; 6 (EJCB). ARMENIA. Ararat: Khosrov Forest State Reserve; 40°02'15"N, 044°55'02"E; 6-1983; 1 (EJCB). AZERBAIJAN. Talysh Mts., km 14-18, Rte Lenkoran-Lerik; 38°44'11"N, 048°39'04"E; 4, 5-2001; 1 (EJCB). CROATIA. Cres isl., 3 km NW of Valuni; 44°52'44"N, 014°22'52"E; 6-2001; alt. 150 m; 1 (EJCB). GREECE. Megalopoli env., Paradisia; 37°19'06"N, 022°04'20"E; 7-1996; 2 (EJCB). IRAN. Mazandaran: Elburz Mts., 6 km SSW of Alamdeh; 36°31'N, 051°56'E; 5-2007; alt. 200 m; 1 (EJCB). MOLDOVA. Orhei: Kurki [=Curchi]; 47°20'12"N, 028°39'19"E; 5-1954; 1 (ZIN). NORWAY. Aust-Agder: Risør; 58°43'N, 9°13'E; 7-1901; 1 (EJCB); 7-1904; 1 (ZMUN); 7-1907; 1 (ZMUN); 7-1909; 1 (EJCB). RUSSIA. Saratov: 17 km S Saratov, Budanova gora; 51°18'23"N, 045°46'14"E; 6-1998; 1 (ZIN) – N. Bannevka; 6-2003; 1 (ZIN). Stavropol: Zheleznovodsk env.; 44°08'N, 043°00'E; 6-2007; 1 (MSCI). Vladimir: Nikolaevka vill., Koltshugino dist.; 56°31'N, 038°38'E; 7-2005; 1 (MSCI). SWEDEN. Kalmar län: Strömserum [= Strömsrum]; 57°04'58"N, 015°45'35"E; 5-1988; 1 (EJCB). SYRIA. Al Ladhīqiyah: Slinfah, Jabal an-Asariyah; 35°35'N, 36°11'E; 5-1998; 1 (EJCB) – Slinfeh [= Slinfah], Jabal al-Asariyah Mts.; 35°35'N, 36°11'E; 5-1995; alt. 1200 m; 1 ♂ (EJCB). TURKEY. Antalya: Akseki; 37°02'22"N, 045°42'E; 6-1973; 1 (EJCB). Çanakkale: Lapseki env.; 40°20'22"N, 026°41'33"E; 5-1984; 1 ♂ (EJCB). Gaziantep: Nurdağı Geçidi; 37°10'38"N, 036°41'18"E; 6-1998; 2 (EJCB). Mersin: Arslanlı env., 20 km NW of Erdemli; 36°40'38"N, 034°10'59"E; 6-1998; 1 (EJCB) – Taurus - Erdemli; 36°37'46"N, 034°13'14"E; 5-1995; 2 ♀ (EJCB). Kastamonu: N Yaraligöz, Gecidi pass near Kastamonu; 41°46'N, 034°04'E; 6-2006; alt. 1333 m; 1 (EJCB). Kütahya: Kütahya env.; 39°25'36"N, 029°57'12"E; 5-1984; 1 ♂ (EJCB) – Kütahya, Porsuk Bj.; 39°23'23"N, 029°58'51"E; 5-2001; 1 ♀ (EJCB). Manisa: 15 km SEE Salihli; 38°26'N, 028°19'E; 7-2006; alt. 170 m; 1 (EJCB). Osmaniye: Osmaniye-Zorkun; 37°02'21"N, 036°16'41"E; 6-2001; 1 ♀ (EJCB). UKRAINE. Crimea: Verkhnyaya Kutuzovka, Alushta dist.; 44°43'N, 034°22'E; 6-1996; 1 (MSCI). Dnipropetrovsk: Andreevka, Novomoskovsky dist.; 48°45'N, 035°27'E; 7-1982; 1 (MSCI).

***Agrilus bilineatus* (Weber, 1801)**

**Examined specimens:** TURKEY. Düzce: 15 km SE of Akçakoca, Döngeli env. [= Döngelli]; 41°04'34"N, 031°10'46"E; 6-2002; 1 (EJCB).

**Remarks:** This distinct North American species was collected in Turkey by my friend and an expert on Elateridae Josef Mertlik who validated the locality of this species. The finding needs additional re-confirmation but the natural conditions of Turkey shouldn't preclude establishment of this species. This would represent the first introduction of a Nearctic species to the Palearctic fauna.

***Agrilus blatteicollis* Bourgoïn, 1922**

**Examined specimens:** VIETNAM. Bac Can: Ba Be Natl. Park.; 6-2011; alt. 350 m; 1 (MZUF). Hoa Binh: Hoa Binh; 1 ♂ (ISNB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus boninensis* Kurosawa, 1963**

**Examined specimens:** JAPAN. Bonin Islands: Kômorî-dani, Haha-jima, Bonin Islands; 26°38'N, 142°09'E; 6-1972; 1 ♀ (NSMT) – Mikazuki-yama, Chichi-jima, Bonin Islands; 27°04'N, 142°12'30"E; 6-1972; 1 ♂ (NSMT) – Nagahoma, Haha-jima, Bonin Islands; 26°38'N, 142°09'E; 10-1973; 2 ♂ (NSMT).

***Agrilus bonnottei* Bourgoïn, 1925**

**Examined specimens:** CAMBODIA. Pousaat: Phnom Samkos Widlive Sanctuary Forest; 12°15'N, 102°58'48"E; 5-2005; 1 (ISNB). CHINA. Yunnan: Jinghong, Naban; 22°09'31"N, 100°39'55"E; 6-2009; alt. 709 m; 1 (IZAS) – Xishuangbanna; 22°00'21"N, 101°00'E; 5-1958; alt. 1200 m; 1 (IZAS).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus buresi* Obenberger, 1935 Fig. 4A**

**Type material:** The lectotype was designated by Jendek (2005).

**Examined specimens:** ARMENIA. Ararat: Ararat distr., Khosrov Forest State Reserve; 40°02'15"N, 044°55'02"E; 6-1992; 1 (EJCB) – Khosrov Forest State Reserve; 40°02'15"N, 044°55'02"E; 6-1992; 1 ♂, 1 ♀ (EJCB). Erevan: Erivan [= Yerevan]; 40°12'N, 044°32'E; 1 ♂ (ZIN). Sirak: Karmrakar; 40°51'N, 043°53'E; 5-1955; 1 ♂ (ZIN). Vayoc Jor: 6 km E Saravan; 39°42'39"N, 045°40'32"E; 6-2000; alt. 2000 m; 1 ♂ (NMPC); 1 ♀ (EJCB). AZERBAIJAN. Baku; 40°22'N, 049°49'E; 5-1930; 2 ♂, 1 ♀ (ZIN) – Pirkulli State Reserve, Shamakhi; 40°46'55"N, 048°30'25"E; 6-1979; alt. 1200 m; 1 ♂ (NMPC). BULGARIA. Arkutino - Ropotamo riv.; 42°19'17"N, 027°44'02"E; 6-1982; 1 ♂ (EJCB) – Lozenec; 42°12'N, 027°48'E; 6-1987; 1 ♂ (EJCB); 7-1987; 1 ♀ (EJCB) – Mičurin [= Tsarevo]; 42°10'11"N, 027°50'49"E; 6-1982; 1 ♂, 1 ♀ (EJCB) – Primorsko; 42°16'07"N, 027°44'59"E; 6-1988; 1 ♀ (EJCB). Blagoevgrad: Sandanski; 41°33'N, 23°17'E; 7-1978; 1 ♂ (NMPC). GEORGIA. Ananuri; 42°10'19"N, 044°41'24"E; 6-1978; alt. 750-1000 m; 5 (NMPC). IRAN. Golestan: 55 km NE Minūdasht; 37°22'N, 055°46'E; 5-2003; alt. 681 m; 1 ♀ (EJCB). Khorasan-e Shemali: Elburz Mts., 60 km E of Minudasht; 37°20'N, 056°01'E; 5-2007; alt. 1280 m; 1 ♂ (EJCB). Mazandaran: Elburz Mts., Kandelouz, Nich Kúh env.; 36°17'N, 051°34'E; 6-2007; alt. 2100 m; 2 ♂, 1 ♀ (EJCB). RUSSIA. Karachayevo-Cherkesiya: Teberda env.; 43°26'38"N, 41°44'45"E; 6-1967; 1 ♂ (EJCB). Krasnodar: Leningradskaya; 46°18'N, 39°22'E; 5-2003; 1 ♂ (EJCB) – Ubinskaya; 44°44'N, 38°31'E; 5-1976; 1 ♀ (MDCM). SYRIA. Al Ladhiqiyah: Jabal An-Nusayriah, Slinfah [= Slanfah], 1800 m; 35°35'25"N, 036°13'06"E; 5-2002; alt. 1800 m; 1 ♂ (EJCB). TURKEY. Erzincan: Caglayan Girlevik Mts., 2000 m; 39°33'47"N, 039°46'04"E; 6-1993; alt. 2000 m; 1 ♂ (EJCB). Kırklareli: Yıldız Dag., Dereköy env.; 41°55'53"N, 027°22'E; 5-1996; 1 ♀ (EJCB).

**Distribution:** Asia: Armenia; Azerbaijan; Georgia; Iran: Golestan, Khorasan-e Shemali, Mazandaran; Syria: Al Ladhiqiyah; Turkey: Antalya, Bilecik, Bolu, Erzincan, Erzurum, Gümüşhane, Konya, Sinop. Europe: Bulgaria; Greece; Russia: Karachayevo-Cherkesiya, Krasnodar; Serbia

**Remarks:** *Agrilus buresi* can be reliably distinguished from *A. sulcicollis* only by the shape

of the aedeagus. The aedeagus of *A. buresi* is roughly symmetric unlike the obviously asymmetric aedeagus of *A. sulcicollis*. *Agrilus buresi* was described from Bulgaria as a subspecies of *A. sulcicollis* and elevated to the species level by Niehuis & Tezcan (1993). Both species have similar biology and larval host (*Quercus*). Many distributional records published in the past under the name *A. sulcicollis* or its synonyms actually pertain to *A. buresi*. Faunal records suggest that *A. buresi* is the southeastern vicariant of *A. sulcicollis*. The northeast limits of *A. buresi* lay in Ciscaucasia. The precise delimitation of both species in intermediate zones on Balkan Peninsula and Ciscaucasia requires additional material.

#### ***Agrilus caligans* Bourgoïn, 1925**

**Examined specimens:** CHINA. Guangxi: Longsheng County, Baiyan; 25°54'59"N, 109°59'59"E; 6-1963; alt. 1150 m; 1 (EJCB). Sichuan: Minshan Mts., 60 km E of Songpan; 6-2005; alt. 1000 m; 1 ♀ (RKCK). INDIA. Himachal Pradesh: Dharamsala, Kangra District; 32°13'12"N, 076°19'16"E; 9-1919; Larval host: *Albizia stipulata* B. Boivin; 1 ♂ (EJCB).

**Host plants cited:** Larval host: *Albizia stipulata* B. Boivin.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### ***Agrilus chlorophyllus* Abeille de Perrin, 1904**

**Examined specimens:** IRAN. Fars: Sivand env.; 30°06'N, 052°58'E; 5-2005; alt. 1850 m; Larval host: *Pistacia*; 3 (EJCB) – W Sarvestan (40 NW Fasa), Küh-e Mian Jangal; 29°10'01"N, 053°23'01"E; 4-2007; alt. 1830 m; Larval host: *Pistacia*; 13 (EJCB). Kerman: 2 km N Mohammadabad; 28°55'N, 057°53'E; 4-2007; alt. 2045 m; Larval host: *Pistacia*; 20 (EJCB) – Deh Bakri, 1640 m, Gebal Barez Mts.; 28°57'35"N, 057°38'55"E; 6-2010; alt. 1640 m; 1 (EJCB) – Esfandagheh; 28°41'26"N, 057°10'08"E; 4-2007; Larval host: *Pistacia*; 13 (EJCB) – Joupar [= Jupar] env.; 30°03'53"N, 057°06'48"E; 6-2010; alt. 1900 m; 2 (EJCB) – N of Deh Bakri; 29°07'39"N, 057°55'08"E; 5-2013; alt. 1910 m; Larval host: *Pistacia*; 9 (EJCB) – Rafsanjan; 30°24'36"N, 055°59'24"E; 6-2010; Adult host: *Pistacia mutica* Fisch. & C. A. Mey.; 4 (EJCB) – Rayen - Delfar Rd.; 29°02'52"N, 057°35'11"E; 5-2012; alt. 2500 m; Larval host: *Pistacia*; 2 (EJCB). Khorasan-e Razavi: Khopet Dag (N slope), 16 km N Mozduran; 36°17'13"N, 060°34'24"E; 4-2008; alt. 730 m; Larval host: *Pistacia*; 33 (EJCB). Lorestan: SW Dorud; 33°25'18"N, 048°59'45"E; 4-2007; alt. 1400 m; Larval host: *Pistacia*; 13 (EJCB); 5-2009; Larval host: *Pistacia*; 9 (EJCB). TURKEY. Kahramanmaraş: 12 km E Pazarcık; 37°29'N, 037°25'E; 7-2007; alt. 960 m; Larval host: *Pistacia*; 2 (EJCB). Siirt: 10 km N Mesindagi Gecidi, env. Görendoruk; 37°40'23"N, 042°15'06"E; 5-2014; alt. 1200 m; Larval host: *Pistacia vera* L.; 5 (EJCB).

**Host plants cited:** Larval host: *Pistacia* sp., *Pistacia vera* L. Adult host: *Pistacia mutica* Fisch. & C. A. Mey.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### ***Agrilus chujoi* Kurosawa, 1985**

**Examined specimens:** CHINA. Liaoning: Anshan, Qianshan mts; 41°05'34"N, 123°06'34"E; 7-2002; 2 (IZAS).

**Remarks:** For additional examined specimens see Jendek (2001) and Jendek & Grebennikov (2011).

#### ***Agrilus compacticornis* Jendek, 2011**

**Examined specimens:** CHINA. Ningxia: Guyuan; 36°01'24"N, 106°14'21"E; locust; 1 ♂ (EJCB).

***Agrilus constantini* Obenberger, 1927**

**Examined specimens:** RUSSIA. Orenburg: Sol'-Ileckii r-n, v 8 km zap. s. Troick, mely; 50°42'09"N, 054°28'48"E; 6-2008; 1 (VNCO).

***Agrilus convexicollis* Redtenbacher, 1847**

**Examined specimens:** BULGARIA. Ropotamo Nat. Park; 42°19'14"N, 027°44'17"E; 6-1982; 2 ♂ (EJCB). GREECE. Ionia Nisia: Kérkira isl.-NE, Spartilas (~2 km W); 39°42'57"N, 019°49'18"E; 7-2015; alt. 360 m; Adult host: *Fraxinus*; 1 (VKCB). RUSSIA. Ivanovo: Ivanovo city, on a *Fraxinus*; 57°00'N, 040°59'E; 6-2007; Adult host: *Fraxinus*; 1 (MSCI). Krasnodar: Krasnodar, park; 5-1971; 1 (ZIN) – Sochi; 43°35'52"N, 039°43'22"E; 6-1967; 1 (NMPC). Voronezh: Kamennaya step; 51°03'N, 040°42'E; 7-1935; 1 (ZIN). SLOVAKIA. Nový Salaš; 48°36'N, 21°29'E; 6-2002; 3 (ISCK). SLOVENIA. Petrinje, Podgorski Kras mts; 45°33'N, 13°53'E; 2000; 2 (JVCO). UKRAINE. Crimea: Crimea; 1 (MHNG).

**Host plants cited:** Adult host: *Fraxinus*.

***Agrilus coreanus* Obenberger, 1935**

**Examined specimens:** CHINA. Hebei: Chengde; 7-2014; Larval host: *Gleditsia sinensis* Lam.; 1 ♀ (EJCB).

**Host plants cited:** Larval host: *Gleditsia sinensis* Lam.

***Agrilus cuprescens cuprescens* (Ménétriés, 1832) Fig. 5A**

**Examined specimens:** ARMENIA. Yerevan; 40°10'49"N, 044°29'58"E; 7-1992; 2 (MKCY). Ararat: Khosrov Forest State Reserve; 40°02'15"N, 044°55'02"E; 8-1992; 1 (MKCY). AUSTRIA. Villach Umgebung, Spitzeckweg 11, im Garden; 46°37'40"N, 013°50'20"E; 7-2004; 1 (EJCB). AZERBAIJAN. Bež-Barma, Zarat; 40°54'N, 49°15'E; 6-1979; 1 (EJCB). BULGARIA. Carevo env.; 42°10'17"N, 027°50'43"E; 6-2004; 1 ♂, 1 ♀ (EJCB) – Gramatikovo; 42°03'48"N, 027°39'19"E; 6-2003; 1 (EJCB). CANADA. Manitoba: Tp. 3, Rge 15, E. 1; 49°13'26"N, 099°25'38"W; 6-1992; 3 (CNC) – Tp. 3, Rge 17, E. 1; 49°13'22"N, 099°41'53"W; 7-1992; 1 (CNC) – Tp. 3, Rge 9, E. 1; 49°12'24"N, 098°37'07"W; 7-1992; 4 (CNC) – Tp. 4, Rge 12, E. 1; 49°18'17"N, 099°02'35"W; 7-1992; 1 (CNC) – Tp. 4, Rge 16, E. 1; 49°18'39"N, 099°34'28"W; 6-1992; 1 (CNC) – Tp. 4, Rge 17, E. 1; 49°18'41"N, 099°42'37"W; 7-1992; 1 (CNC) – Tp. 4, Rge 16, E. 1; 49°18'39"N, 099°34'28"W; 6-1992; 3 (CNC) – Tp. 6, Rge 16, E. 1; 49°29'29"N, 099°33'46"W; 7-1992; 1 (CNC) – Tp. 8, Rge 17, W. 1; 49°39'01"N, 099°43'21"W; 6-1992; 2 (CNC) – Tp. 9, Rge 24, W. 1; 49°44'21"N, 100°40'44"W; 6-1992; 1 (CNC). CROATIA. Metkovič; 43°03'09"N, 017°38'28"E; 1 (EJCB) – Peručko Jazero, Potravlje [= Potravije]; 43°48'18"N, 016°32'45"E; 6-2005; Adult host: *Cornus*; 5 (EJCB). CZECH REPUBLIC. České Stredohoří, Raná - step; 50°24'44"N, 013°46'44"E; 8-1977; 1 ♂ (EJCB). FINLAND. Turku; 60°27'09"N, 022°16'03"E; 1 (EJCB). GREECE. Olympiada; 40°34'09"N, 021°35'57"E; 5-2007; 1 (EJCB). IRAN. Azarbayjan-e-Sharqi: 30 km E of Ahar; 38°23'08"N, 047°19'15"E; 5, 6-2011; alt. 1100 m; 1 ♂ (EJCB). Gilan: Lahijan (= Lahigan); 37°12'22"N, 050°00'16"E; 6-2004; 1 (EJCB). KAZAKHSTAN. Aqtöbe oblysy: Mugodzhany [= Mugodzharskoye], Alinskol; 48°35'N, 058°27'32"E; 6-1995; 1 ♂ (EJCB) – Mugodzhany [= Mugodzharskoye], Borly; 48°35'N, 058°27'32"E; 6-1995; 1 ♂ (EJCB). Zhambyl oblysy: Karasu [= Чёрная Речка]; 42°59'07"N, 074°54'02"E; 4-2000; 1 ♂ (EJCB). LUXEMBOURG. Halerbach [= Hallerbach]; 49°49'25"N, 006°18'31"E; 6-1980; 2 ♂ (EJCB). MONGOLIA. Cagaan nuga env., Segneger riv. vall., 35 km NE of Mandal (= Batsumber), cca 70 km N of Ulaanbaatar; 48°48'03"N, 106°54'09"E; 7-2003; alt. 1500 m; 2

♂ (EJCB). ROMANIA. Dubova, W of Turnu Severin; 44°37'10"N, 022°15'16"E; 5-2002; 2 (EJCB). RUSSIA. Buryat: Utoschkina; 52°08'28"N, 109°11'43"E; 2 (EJCB). Dagestan: okr.s. Glokh; 5-1988; alt. 1500 m; 1 (EJCB). Leningrad: Vsevolozhskii r-n, Pastorskoye [= Pastorovskoe], boloto; 60°13'41"N, 030°02'49"E; 6-2006; 1 (EJCB). Perm: Usolie-Sibirskoe; 59°26'04"N, 056°40'40"E; 1 (EJCB). Primorye: Ryazanovka; 42°47'N, 131°15'E; 6-1991; 1 (EJCB). SLOVAKIA. Bratislava env., Železná Studienka; 48°10'54"N, 017°05'26"E; 6-1993; 8 (EJCB) – Bratislava, Jur; 48°14'55"N, 017°12'40"E; 5-1989; 1 (EJCB) – Hlohovec; 48°26'N, 17°48'E; 6-1977; 1 (EJCB); 6-1978; 1 (EJCB); 7-1980; 1 (EJCB) – Malé Trakany; 48°24'13"N, 022°07'16"E; 5-1993; 2 (EJCB) – Malý Kamenec; 48°21'18"N, 021°47'24"E; 7-1992; 2 (EJCB). SLOVENIA. Brezje; 46°19'42"N, 014°15'E; 7-2004; alt. 350 m; 1 ♀ (EJCB) – Carniola Radoha; 45°43'26"N, 015°10'17"E; 1925; 1 (EJCB) – Potšentjur, Litija [= Litia] env.; 46°03'47"N, 014°49'24"E; 7-1999; 1 ♂ (EJCB). SPAIN. Aragón: 6 km SW of Mosqueruela, Puerto de Linares; 40°19'37"N, 0°31'45"W; 6-2005; alt. 1580 m; 1 (EJCB). Castilla y León: Picos de Mampodre, Puerto de las Señales; 43°04'32"N, 005°14'36"W; 6-2005; alt. 1625 m; 1 (EJCB). La Rioja: Southwards of Ezcaray, Azarrulla-Posadas; 42°15'18"N, 003°02'01"W; 6-2005; 1 (EJCB). TURKEY. Amasya: Amasya [= Amasia]; 40°39'N, 035°49'59"E; 11 (EJCB). Bolu: Bolu Mengen, Yeniçağa env.; 40°46'17"N, 032°02'02"E; 6-2001; 1 ♂ (EJCB) – Boludagi Gecidi; 40°44'57"N, 031°23'45"E; 6-2002; 3 (EJCB). Erzurum: Hwy 925, Dumlu Dagi, 33.2 km NW of Erzurum; 40°08'55"N, 041°01'52"E; 7-2005; 1 (EJCB) – Hwy 955, Aras Nehri, 39.6 km N of Hınıs; 39°42'34"N, 041°47'31"E; 6-2006; alt. 1796 m; 2 (ZIN). Hatay: Akbès; 36°51'N, 036°31'E; 1891; 1 (EJCB). İzmir: Bozdağ; 38°20'23"N, 028°04'33"E; 6-2002; 1 (EJCB) – Bozdağ env.; 38°20'25"N, 028°04'34"E; 8-2002; 1 (EJCB). Kastamonu: Kastamonu, 30 km S of Kastamonu, Çatören env.; 41°08'32"N, 033°46'39"E; 6-2002; 1 (EJCB). Nigde: Bolkar Dag Mts.; 38°23'42"N, 039°40'21"E; 6-2003; alt. 1700-1900 m; 2 (EJCB). Osmaniye: Nur Daglari, Hasanbeyli; 37°07'54"N, 036°33'24"E; 5-1992; 1 (EJCB). Tokat: Tokat; 40°18'50"N, 036°33'15"E; 1906; 2 (EJCB). UKRAINE. Luhans'k: Antratsit distr., Diakovo vill.; 6-2005; 1 (MKCY). UNITED STATES. Michigan: Okemos, Ingham Co.; 42°42'58"N, 084°25'40"W; 6-1969; 1 ♂, 1 ♀ (EJCB). Utah: Logan Canyon, Spring Hollow; 6-1976; 2 (USNM).

**Host plants cited:** Adult host: *Cornus*.

**Remarks:** For additional examined specimens see Jendek (2003) and Jendek & Grebennikov (2011).

***Agrilus cuprescens amethystopterus* Semenov, 1891** Fig. 5A

**Examined specimens:** RUSSIA. Krasnodar: 8 km S of Abinsk, meadow with sparse old oaks; 44°47'17"N, 038°09'59"E; 7-2002; 1 (EJCB) – Gelendzhik [= Selendzhik]; 44°34'52"N, 038°04'19"E; 7-2002; 1 ♂, 1 ♀ (EJCB) – Goryachy Klyuch env., Fanagoriyskoe; 44°30'53"N, 039°07'02"E; 5-2012; 1 (MSCI) – Krasnodar, Krasnyi les [= Krasnyy les] on *Rubus*; 45°10'N, 038°24'E; 6-1978; Adult host: *Rubus*; 1 ♂, 3 ♀ (ZIN). North Ossetia: Nizhnyi Ural; 42°59'52"N, 044°40'35"E; 6-1999; 1 ♂ (EJCB). TURKEY. Bolu: 20 km W of Bolu, Boludagi Gecidi; 40°45'03"N, 031°23'44"E; 6-2002; 1 (EJCB).

**Host plants cited:** Adult host: *Rubus*.

**Remarks:** For additional examined specimens see Jendek (2003).

***Agrilus cuprescens chrysoderes* Abeille de Perrin, 1891** Fig. 5A

**Examined specimens:** ISRAEL. Tel Dan Nature reserve; 32°53'10"N, 035°32'45"E; 4-1995; alt. 180 m; 2 (ZIN). LEBANON. Liban-Nord: Bcharré, Wadi Quadisha; 34°14'39"N,

036°02'36"E; 6-2004; 3 (EJCB). TURKEY. Artvin: 33 km NNE Yusufeli, dry slope along road; 41°01'26"N, 041°26'23"E; 6-1997; 1 ♂ (EJCB) – Altiparmak Dag., 25 km NNW of Yusufeli; 41°01'26"N, 041°26'23"E; 6-1997; 1 ♀ (EJCB). Erzurum: Loc. 5, Sutkans, 8 km S of Oltu; 40°29'04"N, 041°57'44"E; 6-1997; 1 ♂ (ZIN). Kastamonu: N Yaraligöz, Gecidi pass near Kastamonu; 41°46'N, 034°04'E; 6-2006; alt. 1333 m; 1 (EJCB). Sivas: Zara env., Kurbagalibeli Geç.; 39°53'N, 37°46'E; 6-2001; alt. 1800 m; Larval host: *Rosa*; 2 (EJCB).

**Host plants cited:** Larval host: *Rosa*.

**Remarks:** For additional examined specimens see Jendek (2003).

### *Agrilus curtulus* Mulsant & Rey, 1863

= *panchlorus* Abeille de Perrin, 1897 **syn. nov.**

**Type material.** The lectotype of *A. curtulus* was designated by Jendek (2007).

*Agrilus panchlorus* Abeille de Perrin, 1897 was described from an unstated number of syntypes from “Lac de Garde; Trieste”. The lectotype is designated from two syntypes preserved in MNHN. The lectotype of *A. panchlorus* Abeille de Perrin **by present designation**, ♀, MNHN: “Trieste [h] \ [panchlorus Ab. [h] \ Type [h] [red label] \ Type [p] [red label] \ Muséum Paris 1919 Coll. A. de Perrin [p]”. The locality of lectotype “Trieste [Italy]” becomes the type locality of this taxon. The paralectotype is from “Lac de Garda [= Lago di Garda, Italy]”.

**Remarks:** Since Porta (1959), *A. panchlorus* was considered conspecific with *A. grandiceps* or *A. hemiphanes*. The type examination revealed its conspecificity with *A. curtulus*. The specific name *panchlorus* Abeille de Perrin is a junior subjective synonym of the name *curtulus* Mulsant & Rey.

### *Agrilus cyaneoniger* Saunders, 1873

**Examined specimens:** CHINA. Henan: Shenlingzhai, Xiong'er Shan; 34°17'N, 111°43'E; 6-2010; alt. 1000-1400 m; 1 (EJCB). Hubei: Dahongshan; 31°30'N, 113°00'E; 5, 6-2005; 1 (EJCB). Shaanxi: Tsiling Mts., Houzhenzi vill.; 33°51'05"N, 107°50'09"E; alt. 1600 m; 1 (EJCB). Sichuan: Pingwu env.; 32°24'45"N, 104°33'22"E; 7-2005; 1 (EJCB). RUSSIA. Primorye: Anisimovka - 10 km env.; 43°10'12"N, 132°47'13"E; 6-2014; alt. 250-1200 m; 5 (EJCB) – Lazo; 43°20'N, 133°52'E; 7-2010; alt. 300 m; 1 ♀ (CNC).

**Remarks:** For additional examined specimens see Jendek (2000) and Jendek & Grebennikov (2011).

### *Agrilus cyaneovirens* Bourgoïn, 1922

**Examined specimens:** CHINA. Guangxi: Longzhou, Daqingshan mts.; 22°20'33"N, 106°51'16"E; 4-1963; alt. 360 m; 1 (IZAS). Yunnan: Xishuangbanna; 22°00'21"N, 101°00'E; 4-1938; alt. 1600 m; 1 (IZAS). LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4, 5-2010; alt. 1300-1900 m; 14 (USNM); 5-2011; alt. 1300-1900 m; 8 (USNM); 4 (EJCB). VIETNAM. Tonkin; 1 (ISNB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

### *Agrilus cyanescens cyanescens* (Ratzeburg, 1837) Fig. 5B

= *italicus* Obenberger, 1920 **syn. nov.**

**Examined specimens:** RUSSIA. Tuva: Alashskoe nagorye, Malyj Ak Oi riv.; 51°33'22"N, 090°03'57"E; 7-2004; alt. 1400 m; 1 ♂ (EJCB). UNITED STATES. Minnesota: 10 mi W Tower; 6-1982; 1 (USNM) – 5 mi N Virginia; 6-1982; 1 (USNM). New York: Tompkins Co.,



Palmer woods; 7-1997; 2 (USNM). See also Jendek & Grebennikov (2009b, 2011) for additional records.

**Distribution:** Americas: Canada: Ontario, Quebec; United States: Colorado, Connecticut, Illinois, Indiana, Iowa, Maine, Massachusetts, Michigan, Minnesota, Missouri, New Hampshire, New York, Ohio, Pennsylvania, Rhode Island, Utah, Vermont, Virginia, West Virginia, Wisconsin. Asia: Armenia; China: Hunan, Jiangxi, Shaanxi, Shanxi; Kazakhstan: Pavlodar oblysy, Shyghys Qazaqstan oblysy, Soltüstik Qazaqstan oblysy; North Korea; Russia: Khanty-Mansi, Primorye, Sverdlovsk, Tuva; South Korea; Turkey: Artvin, Denizli, Erzincan, Gümüşhane, Mersin, Ordu, Trabzon. Europe: Albania; Austria; Belarus; Belgium; Bosnia and Herzegovina; Bulgaria; Croatia; Czech Republic; Denmark; Estonia; France; Germany; Greece, Aegean Islands; Hungary; Italy; Latvia; Liechtenstein; Lithuania; Luxembourg; Macedonia; Moldova; Montenegro; Netherlands; Norway; Poland; Romania; Russia: Adygeya, Ivanovo, Kaluga, Krasnodar, Lipetsk, Mordovia, Moskva, Saratov, Udmurt, Volgograd, Voronezh; Serbia; Slovakia; Slovenia; Spain: Castilla y León, Cataluna, Madrid; Sweden; Switzerland; Ukraine; United Kingdom: England.

**Remarks:** Curletti (2013) revalidated the name *italicus* for the subspecies of *A. cyanescens* arguing that *A. cyanescens italicus* is restricted to the central and southern part of Italy and differs from the nominotypical subspecies by constant bronze color and by smaller size of denticles on lateral sides of medial lobe of aedeagus. No examined specimens supporting his opinion are cited in the article. *Agrilus cyanescens* has the largest range of any *Agrilus* species (Fig. 5B). The species was introduced to North America (Frost 1922) and recently is recorded from almost all regions of Canada and USA. Jendek & Grebennikov (2009b) defined and revised *A. cyanescens* species-group and examined extensive material of *A. cyanescens* further complemented by Jendek & Grebennikov (2011). The study of specimens revealed a large variability in the size, color and morphology at this species. The ordinary color of *A. cyanescens* is blue but all hues towards bronze or green occur. These non-blue forms are most frequent along the southern border range (south Italy, Turkey or Syria). The recently described *A. cyanescens johanidesi* Niehuis, 1999 from Syria has also bronze color. The size and spacing of denticles on the medial lobe of aedeagus correlate with the body size. The overall evaluation of variability of *A. cyanescens cyanescens* in its whole distributional range doesn't support a subspecific taxon from Italy.

No supporting records for *A. cyanescens* from Portugal were found despite several citations like Paulino d'Oliveira (1887), Arnáiz Ruiz *et al.* (2002) and Verdugo Paéz 2005).

For additional examined specimens see Jendek & Grebennikov (2009b) and Jendek & Grebennikov (2011).

***Agrilus cyanescens johanidesi* Niehuis, 1999 Fig. 5B**

**Examined specimens:** SYRIA. Burqush; 33°28'44"N, 035°59'32"E; 6-1998; alt. 1360 m; Larval host: *Lonicera*; 2 ♀ (EJCB).

**Host plants cited:** Larval host: *Lonicera*.

***Agrilus cyanipennis* Gory & Laporte, 1839**

**Examined specimens:** NEPAL. Purwanchal: Gandaki, Lamjung, Besi Sahar to Bhulhule; 28°15'36"N, 084°21'53"E; 4-2007; alt. 750-840 m; 1 (ITCN).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus darjiling* Jendek, 2001**

**Examined specimens:** MYANMAR. Rakhine: Thechaung (mangrove swamp); 20°11'N,

095°51'E; 8-1951; 1 (EJCB); 2 (USNM) – Thechaung (mouth); 20°11'N, 095°51'E; 8-1951; Adult host: *Derris trifoliata* Lour.; 2 (USNM); 1 (EJCB). Thechaung (mangrove swamp); 20°11'N, 095°51'E; 1961; Adult host: *Derris trifoliata* Lour.; 4 (EJCB); 7 (USNM) – Thechaung (mouth); 20°11'N, 095°51'E; 5-1952; Larval host: *Derris trifoliata* Lour.; 4 (EJCB); 5 (USNM).

**Host plants cited:** Larval host: *Derris trifoliata* Lour., Adult host: *Derris trifoliata* Lour.

#### *Agrilus decoloratus* Kerremans, 1892

**Examined specimens:** INDIA. Arunachal Pradesh: Hunli vicinity; 28°19'22"N, 095°58'25"E; 6-2007; alt. 1100-1200 m; 1 ♀ (EJCB). West Bengal: Maria Basti; 27°07'N, 088°38'E; 1900; 1 (ISNB) – Padong; 27°09'N, 088°37'E; 1914; 2 (MHNG). THAILAND. Nakhon Ratchasima: Khao Yai; 14°19'38"N, 101°19'06"E; 9-1963; 1 (SWBU).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### *Agrilus delphinensis* Abeille de Perrin, 1897

**Examined specimens:** CHINA. Heilongjiang: Dailing; 47°01'35"N, 129°02'10"E; 5-1971; 1 (IZAS) – Harbin; 45°44'N, 126°36'E; 7-1945; 2 (IZAS); 7-1964; 1 (IZAS). CZECH REPUBLIC. Ostrava-Martinov, Moravia; 49°49'N, 18°16'E; 6-2000; 1 (TSCO). HUNGARY. Cinkota; 47°30'56"N, 019°13'16"E; 6-1977; 2 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### *Agrilus derasofasciatus* Lacordaire, 1835

**Examined specimens:** ALGERIA. El Tarf: La Calle [= El Kala]; 36°53'46"N, 008°21'03"E; 1 (EJCB). Sidi Bel Abbès: Sidi Bel Abbès; 35°12'14"N, 0°38'27"W; 2, 3-1915; 6 (EJCB). Skikda: Philippeville [= Skikda]; 36°52'N, 006°54'E; 1 (EJCB). Tlemcen: Saf Saf; 34°53'59"N, 001°16'38"W; 1 (EJCB). AZORES. Azorena, Fayal; 38°35'24"N, 028°41'54"W; 7-1939; 1 (NHRS). BULGARIA. Arkutino; 42°18'N, 27°43'E; 6-1982; 1 ♂ (EJCB) – Javorov [= Peyu Yavorov]; 41°45'N, 023°09'15"E; 5-1984; 8 (EJCB) – Kiten env.; 42°14'04"N, 027°45'56"E; 7-1987; 1 (EJCB). CROATIA. Krk-Punat; 45°00'37"N, 014°38'59"E; 6-1984; 1 (EJCB). GEORGIA. Tbilisi; 41°44'08"N, 044°46'34"E; 7-1958; 2 (EJCB). ISRAEL. Kaifa [= Hefa]; 1 (NMPC). JORDAN. ca 10 km N of Ajlun; 32°24'05"N, 035°51'19"E; 5-2007; alt. 310 m; 2 ♂, 2 ♀ (EJCB). LEBANON. Central Lebanon; 33°55'07"N, 035°57'44"E; 5 (EJCB) – Chtaura; 33°48'54"N, 035°51'10"E; 5-1936; 1 (EJCB). MOROCCO. Tanger-Tétouan: Tanger [= Tangier]; 35°46'N, 005°48'W; 6 (EJCB). RUSSIA. Chechnya: Starogladovskaya - Kizljär [= Kizlyar]; 43°37'49"N, 046°25'31"E; 6-1928; 1 (EJCB). Stavropol: Stavropol; 45°02'51"N, 041°57'48"E; 1 ♂ (EJCB). TURKEY. Antalya: Kemer; 36°35'58"N, 030°33'19"E; 6-2010; 1 (EJCB). Hatay: Akbès; 36°51'N, 036°31'E; 1895; 2 (NMPC); 1891; 6 (EJCB). UKRAINE. Kherson: Ryballche vill; 6-1998; 9 (EJCB).

#### *Agrilus dianthus* Kerremans, 1892

**Examined specimens:** LAOS. Louangphabang: Nong Khiaw env., Ban Sop Houn env.; 8-2006; 1 ♀ (MNCA). THAILAND. Phuket: Phuket Island; 07°58'N, 098°21'05"E; 4-2007; 1 (MKCY). VIETNAM. Dong Nai: 120 km NNE Ho Chi Minh, env. Cat Tien vill.; 11°24'55"N, 107°23'59"E; 6-1995; 1 (MKCY).

**Remarks:** For additional examined specimens see Jendek (2004) and Jendek & Grebennikov (2011).

***Agrilus discalis* Saunders, 1873**

**Examined specimens:** CHINA. Fujian: Fujian, Chuanxingcun vill.; 27°15'13"N, 118°43'E; 6-1960; alt. 740 m; 1 (IZAS). Jiangsu: Shanghai; 31°05'23"N, 121°28'07"E; 1 (IZAS). JAPAN. Honshu: Akabane, Kita, Tokyo; 35°46'50"N, 139°43'12"E; 5-1926; 1 (USNM) – Tsukuba, Ibaraki; 36°06'30"N, 140°05'04"E; 6-2006; 6 (RKCK).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus ecarinatus* Marseul, 1866**

**Examined specimens:** CHINA. Hebei: Xiaowutaishan Mts.; 39°56'15"N, 115°18'30"E; 7, 8-1964; alt. 1200-1700 m; 6 (IZAS). Heilongjiang: Harbin; 45°44'N, 126°36'E; 6-1955; 1 (IZAS). Henan: Shenlingzhai, Xiong'er Shan; 34°17'N, 111°43'E; 6-2010; alt. 1000-1400 m; 1 ♂ (EJCB). KAZAKHSTAN. Aqtöbe oblysy: Irgizskii raion, bank of Irgiz river; 48°39'17"N, 060°49'31"E; 7-2006; 3 (RKCK). KYRGYZSTAN. Ysyk-Köl: Cholpon-Ata distr., Grigorevka, Kungei Alatau; 42°39'N, 077°28'12"E; 6-2006; alt. 1700 m; 5 (RKCK). MONGOLIA. Central Aimak, Zuun-Chara, Duusch ul; 8-1964; alt. 1100 m; 6 (USNM).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus erythrostickus* Bourgoin, 1922**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°13'N, 104°00'E; 5,6-2009; alt. 1340-1870 m; ~60 (NMPC); 4,5-2010; alt. 1300-1900 m; 30 (USNM); 5-2011; alt. 1300-1900 m; 3 (USNM); 6-2011; alt. 1340-1870 m; 58 (NMPC). Louang Namtha: Bo Tien; 5, 6-2009; 1 ♂ (EJCB). Oudômxai: Beng; 20°12'N, 101°48'E; 5-2010; 1 ♂ (HHCR). MYANMAR. Kachin: Sikaw; 23°49'48"N, 097°04'30"E; 6-2009; 1 ♀ (EJCB). Mandalay: Kyaukpadaung; 20°50'24"N, 095°07'48"E; 6-2009; 1 ♂ (EJCB). THAILAND. Phetchabun: Nam Nao NP, Checkpoint; 16°43'43"N, 101°33'50"E; 3-2007; alt. 917 m; 1 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus fareastensis* Jendek, 1995**

**Examined specimens:** RUSSIA. Amur: Arkhara; 49°25'N, 130°04'E; 7-1989; Adult host: *Quercus*; 1 ♂ (CNC). Primorye: Tarasovka; 43°59'35"N, 132°39'23"E; 7-1973; 1 (USNM).

**Host plants cited:** Adult host: *Quercus*.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus fevreae* Descarpentries & Villiers, 1963**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4, 5-2010; alt. 1300-1900 m; 43 (USNM); 5-2011; alt. 1300-1900 m; 66 (USNM); 6 (EJCB); 6-2011; alt. 1340-1870 m; 16 (NMPC).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus fissifrons* Fairmaire, 1849**

= *fidjiensis* Obenberger, 1924

= *tetrastichus* Obenberger, 1924 **syn. nov.**

**Type material:** The lectotype of *A. fissifrons* designated by Jendek (2012) is preserved in BMNH. The specific name *fidjiensis* Obenberger was proposed as a junior subjective synonym of *fissifrons* Fairmaire by Théry (1935). The lectotype of *A. fidjiensis* is designated here. The lectotype of *A. fidjiensis* Obenberger 1924 **by present designation**, ♂ (NMPC):

“Isl. Fiji [h] [p] \ Typus [p] [red label with black border] \ *Agrilus fidjiensis* m. Type [h] Det. Dr. Obenberger [p]”.

*Agrilus fidjiensis tetrastichus* was described from Fiji Islands from an unstated number of syntypes. The single syntype from NMPC is designated here as a lectotype. The lectotype of *A. fidjiensis tetrastichus* **by present designation**, ♂ (NMPC): “Fidji Islands [h] \ Typus [p] [red label with black border] \ *A. fidjiensis* ssp. *tetrastichus* m. Type [h] det. Dr. Obenberger [p]”. The examination of types revealed no significant differences except for variably preserved tomentose elytral spots. The both nominal species *A. fissifrons* and *A. fidjiensis tetrastichus* are considered conspecific.

### ***Agrilus fissus* Obenberger, 1917**

**Examined specimens:** CHINA. Sichuan: Minshan Mts., Juijaigow env.; 33°28'20"N, 103°36'02"E; 7-2004; alt. 2000 m; 1 (RKCK).

### ***Agrilus fleischeri* Obenberger, 1925**

**Examined specimens:** CHINA. Liaoning: Saima Town, Fengcheng City; 40°54'40"N, 124°16'15"E; 2014; alt. 292 m; Larval host: *Populus nigra* var. *italica* Koehne; 1 (EJCB). MONGOLIA. Töv: 20 km E Terelj, 60 km NE of Ulaanbaatar, Tuul riv. valley - Terelj National park; 47°58'07"N, 107°35'41"E; 7-2003; alt. 1200-1400 m; 3 ♂ (EJCB). RUSSIA. Khabarovsk: Korfovskaya; 48°13'13"N, 135°04'40"E; 7-1981; 1 (ZIN).

**Host plants cited:** Larval host: *Populus nigra* var. *italica* Koehne.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

### ***Agrilus foliicornis* Abeille de Perrin, 1891**

**Examined specimens:** SYRIA. Al Ladhqiyyah: Jabal An-Nusayriah, Slinfah env.; 35°35'N, 36°11'E; 5-2002; alt. 1200 m; 1 (EJCB) – Slinfeh [= Slinfah], Jabal al-Asariyah Mts.; 35°35'N, 36°11'E; 5-1995; alt. 1200 m; 1 ♂ (EJCB). TURKEY. Afyon: Basören env.; 38°27'56"N, 030°25'35"E; 5-2002; 2 (EJCB). Gaziantep: Adana - Gaziantep, Nurdagi Gecidi; 37°11'31"N, 036°37'22"E; 6-1992; alt. 1200 m; 5 (EJCB). Mersin: Silifke, Goksu Kanyon; 36°22'19"N, 033°50'12"E; 5-2001; 1 ♂ (EJCB). Mus: Buglan Gecidi, NW Mus; 38°56'N, 041°08'E; 5-2001; 1 ♀ (EJCB). Osmaniye: Fevzipasa - Hasanbeyli; 37°07'53"N, 036°33'26"E; 6-2001; 2 ♂, 3 ♀ (EJCB) – Nur (Amanus) Dagl. Mts., Hasanbeyli; 37°07'55"N, 036°33'24"E; 6-1991; 1 (EJCB).

### ***Agrilus friebi* Obenberger, 1922**

**Examined specimens:** CHINA. Heilongjiang: Heilongjiang; 1 (IZAS).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

### ***Agrilus ganglbaueri* Semenov, 1891**

**Examined specimens:** CHINA. Xinjiang: Yuli county, Tadachang; 41°24'36"N, 086°15'E; 5-1960; alt. 850 m; 1 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

### ***Agrilus graecus* Obenberger, 1916**

**Examined specimens:** CZECH REPUBLIC. Nové Mlýny env., Křivé jezero, Moravia; 48°52'N, 16°43'E; 4-2003; 2 (TSCO). SWITZERLAND. Geneve: Suisse-Genève, Evorde; 46°09'01"N, 006°08'33"E; 7, 8-1991; Adult host: *Quercus*; 1 (MHNG).

**Host plants cited:** Adult host: *Quercus* sp.

***Agrilus graminis* Kiesenwetter, 1857** Fig. 2A

**Type material:** The lectotype of *Agrilus graminis* Kiesenwetter, 1857 was designated by Jendek (1998).

**Examined specimens:** ALBANIA. Laidhizé - q. e Malit; 7-2001; 1 (EJCB). ALGERIA. Bouira: Boud'ra; 6-1971; 1 (EJCB). AZERBAIJAN. Länkəran: Lankaran; 38°45'29"N, 048°50'31"E; 1 ♂, 1 ♀ (EJCB) – Talysh Mts. nr. Bilyasar forest; 38°38'N, 048°41'E; 6-2004; 1 ♂, 1 ♀ (ZIN). BULGARIA. Kiten env.; 42°14'04"N, 027°45'56"E; 7-1987; 3 (CNC). CROATIA. Istra, Sv. Ivan; 45°24'22"N, 013°58'47"E; 7-2003; 6 (EJCB). GREECE. Kentriki Makedonia: Nea Vrasna - Asprovalta; 40°42'58"N, 023°40'32"E; 7-1998; 1 ♂ (EJCB). Thessalia: Mt. Ossa, Anatoli env.; 39°45'42"N, 022°41'48"E; 6-2007; alt. 1200 m; Larval host: *Fagus*; 2 ♀ (EJCB). IRAN. Nord-Persien, Elburs-Gebirge [Alborz Mountains]; 1 ♂ (ISNB). Gilan: 5 km E di Tütəkəbon; 36°51'N, 49°33'E; 6-2003; alt. 400 m; 1 ♂ (DGCC). Golestan: 10 km westlich Gorgan; 36°50'06"N, 054°17'45"E; 5-1977; alt. 300 m; 2 ♂ (EJCB); 6-1977; alt. 300 m; 7 (EJCB) – 50-70 km E of Minudasht, Golestan Forest; 37°13'53"N, 055°37'32"E; 5-1977; alt. 450-700 m; 1 ♂ (EJCB) – Gorgan; 36°50'52"N, 054°25'54"E; 5-1975; 1 ♂ (EJCB). Mazandaran: 12 km NW Kiyāsar; 36°03'36"N, 051°08'16"E; 6-2000; 7 (EJCB) – 15 km S Alamdeh (Ruyan); 36°27'21"N, 051°54'09"E; 7-2000; 1 ♂, 1 ♀ (EJCB) – Čürti/Yannat Rudbar; 35°53'29"N 53°08'24"; E 6-2000; alt. 1150 m; 2 ♂ (DGCC). ITALY. Sardegna: Berchidda, Sassari pref.; 40°47'09"N, 009°09'52"E; 7-1992; 1 ♀ (EJCB). MOROCCO. Meknes-Tafilalet: 20 km NE Khenifra; 32°59'15"N, 005°29'06"W; 6, 7-2008; alt. 1550 m; 3 (EJCB). Tanger-Tétouan: Bab Berred; 34°59'56"N, 004°53'28"W; 6-1998; alt. 1300 m; 1 ♀ (EJCB) – Tanger [= Tangier]; 35°46'N, 005°48'W; 1 (EJCB) – Tetouan; 35°34'44"N, 005°22'05"W; 6-1997; 1 ♀ (EJCB). RUSSIA. Lipetsk: 30 km E of Yelets, Morozova gora; 52°34'N, 39°04'E; 8-2000; 1 (MCCD); 7-2005; 1 (MCCD). Stavropol: Stepnoy; 44°47'12"N, 042°22'44"E; 6-1954; 3 (EJCB). Voronezh: Kamennaya step; 51°03'N, 040°42'E; 7-1935; 1 ♂ (EJCB). SLOVENIA. Materija, Kozina env; 45°36'N, 13°56'E; 7-2000; 1 ♂ (JVCO). SPAIN. Guipuzcoa, 12 km SE Beasain, Alto de Lizarrusti; 43°01'58"N, 002°07'06"W; 6-2005; 14 (EJCB). SWITZERLAND. Valais, s/Varen; 46°19'09"N, 007°36'25"E; 7-1991; alt. 900 m; 1 (EJCB). TURKEY. Bursa: Ulu Dagi Mts., Barakli env.; 39°57'59"N, 029°13'41"E; 7, 8-2000; 1 (EJCB). Gümüşhane: Kösedagi Gecidi pass W Bayburt; 40°18'N, 39°34'E; 6-2006; alt. 1973 m; 1 ♂ (EJCB). Osmaniye: Fevzipasa - Hasanbeyli; 37°07'53"N, 036°33'26"E; 6-2001; 1 (EJCB).

**Host plants cited:** Larval host: *Fagus* sp.

**Remarks:** *Agrilus graminis* varies considerably in the size (4.4 – 6.7 mm) and color (brownish, greenish, bluish, unicolored, slightly bicolored). The body shape changes from the slender to robust and the maximum width of pronotum varies from the middle to anterior pronotal margin. Some specimens from Iran and Morocco have proximal and distal part of whitish elytral pubescence united. This variability occurs equally among specimens from the same locality or among distant populations. The species can be reliably distinguished by the male sexual characters like characteristically modified antennomeres, the form of prosternal process and the form of impression on apex of last ventrite.

***Agrilus grandiceps* Kiesenwetter, 1857 nom. dubious**

**Type material:** *Agrilus grandiceps* Kiesenwetter, 1857 was described from an unstated number of syntypes from “In dem Bannate [= Banat, the historical region currently divided among Romania, Serbia and Hungary] und auf Cypem [= Cyprus]”. Types were never

located. The reference of Niehuis & Tezcan (1993) to the specimen preserved in ZSMC and labeled as “Holotype” is unsubstantiated and dubious. The primary type fixation of this taxon is indispensable for resolving the taxonomy of *A. litura* species-group. The most likely candidates for lectotype designation are two specimens from the Oberthur collection in MNHN, drawer “Oberthur coll., *Agrilus* or. & pal. 2”. These specimens are labeled “Transcriptio [p] *Grandiceps* Kiesw. Chypre [h] \ Muséum Paris 1952 Coll. R. Oberthur [p] [yellow label]”. These originally unlabeled specimens were labeled by me (Jendek 1998) by transcribing the data from the label glued on the bottom of drawer and shared by both specimens. The specimens correspond to the brief description of Kiesenwetter (green color of body, copper-red color of frons, very big head and strongly convex vertex) and they seem to be conspecific with very similar *A. rhoos* Królik & Niehuis, 2003 from *A. roscidus* species-group. Because the revision of *A. litura* or *A. roscidus* species-groups is beyond the scope of this work, the lectotype of *A. grandiceps* is not designated.

***Agrilus hastulifer* (Ratzeburg, 1837) Fig. 2B**

**Examined specimens:** ALGERIA. Annaba: Mt Edough; 36°53'10"N, 007°36'37"E; 1 (MNHN). Constantine: Constantine; 36°22'25"N, 006°36'14"E; 1 ♂ (MNHN). ARMENIA. Ararat: Khosrov Forest State Reserve; 40°02'15"N, 044°55'02"E; 7-2003; alt. 1500-1800 m; 1 (EJCB). BULGARIA. Lozenec; 42°12'N, 27°48'E; 6-1987; 1 (EJCB); 7-1987; 1 (EJCB). CROATIA. Cres isl.; 44°53'N, 014°19'E; 7-2005; 1 (EJCB) – SW Perou; 44°56'18"N, 013°47'43"E; 7-2002; 1 ♀ (EJCB). GREECE. Ionia Nisia: Kérkira isl.-NE, Spartilas (~2 km W); 39°42'57"N, 019°49'18"E; 7-2015; alt. 360 m; Adult host: *Quercus*; 2 (VKCB). IRAN. Gilan: 5 km E di Tüt-kābon; 36°51'N, 49°33'E; 6-2003; alt. 400 m; 6 ♂ (DGCC). MOROCCO. El Feldek; 5-1991; 3 (EJCB). Meknes-Tafilalet: Azrou, Lac Affenourir [= Afhourir]; 33°16'50"N, 005°15'08"W; 6-1994; alt. 1700 m; 1 ♂ (EJCB). Tadla-Azilal: Moyen Atlas, S El Ksiba; 32°19'12"N, 006°01'12"W; 6-1977; alt. 1400-1600 m; 1 ♂ (EJCB). Tanger-Tétouan: Tanger [= Tangier]; 35°46'N, 005°48'W; 1 (EJCB). ROMANIA. Delta Dunarii - Letea Forest; 45°21'19"N, 029°31'09"E; 6-1995; alt. 10 m; 4 ♂ (EJCB). RUSSIA. Krasnodar: Novorosiisk. leskhoz; 5-1967; 1 ♂, 1 ♀ (ZIN). Moskva: Moskva; 55°45'10"N, 037°34'28"E; 8-1939; 2 (ZMUM). Stavropol: Stepnoy; 44°47'12"N, 042°22'44"E; 6-1954; 3 (EJCB). TUNISIA. Jendouba: Ain Draham; 36°46'26"N, 008°41'07"E; 5-1999; 4 (EJCB). TURKEY. Bursa: Ulu Dagi Mts., Barakli env.; 39°57'59"N, 029°13'41"E; 7, 8-2000; 1 ♀ (EJCB). Mus: Buglan Gecidi, 1600 m; 38°56'22"N, 041°09'13"E; 7-1977; alt. 1600 m; 1 ♀ (EJCB). Tunceli: 20 km N Pülümür; 39°35'N, 039°55'E; 6-1999; 1 (EJCB). UKRAINE. Zaporizhzhya: Zaporizhzhya; 6-2005; 1 (MCCD).

**Host plants cited:** Adult host: *Quercus* sp.

**Remarks:** North African specimens are generally slightly bicolored. The head and pronotum is reddish, the elytra are dark green.

***Agrilus hemiphanes* Marseul, 1866 stat. nov.**

= *mephistopheles* Abeille de Perrin, 1897

= *nigrivestis* Abeille de Perrin, 1897

**Type material:** *Agrilus hemiphanes* Marseul, 1866 was described as a species from an unstated number of syntypes from “France méridionale. Nimes”. According to the ICZN (1999) Article 74.5, the lectotype preserved in MHNG was designated by Schaefer (1936). The lectotype is labeled as follows: “Nimes [h] \ *Hemiphanes* M[illegible MS] T [h] \ 599 63 Nimes France Coll. Reiche [h] \ Type [p]”.



**Figures 2A–2B.** Distribution of *Agrilus*. Triangles indicate locality of examined specimens, hatching indicates compiled range or by distribution. **2A**, *A. graminis* Kiesenwetter, 1857; **2B**, *A. hastulifer* (Ratzeburg, 1837).

*Agrilus mephistopheles* Abeille de Perrin, 1897 was described from an unstated number of syntypes from “Nyons, Toulon, Caucase, Montpellier”. The lectotype is designated from two syntypes preserved in MNHN. The lectotype of *A. mephistopheles* Abeille de Perrin **by present designation**, ♀, MNHN: “Chene Vent Nyons [h] \ mephistopheles Abeille [h] Type [p] [red ink] \ Muséum Paris 1919 Coll. A. de PERRIN [p]”. The locality of lectotype “Nyons [a commune in the Drôme department in France]” becomes the type locality of this taxon.

*Agrilus nigrivestis* Abeille de Perrin was described from an unstated number of syntypes from “Sainte-Baume, Ria”. The lectotype is designated from the syntype preserved in MNHN. The lectotype of *A. nigrivestis* Abeille de Perrin **by present designation**, ♂, MNHN: “Ste Baume [h] \ nigrivestis Ab. [h] \ Muséum Paris Coll. Abeille de Perrin 1919 [p] \ nigrivestis Abeille [h] [Type] [red ink] \ Agrilus hemiphanes ♂ Mars. [h] det. G. Magnani 19 [p] 94 [h]”. The locality of lectotype “Ste Baume [France]” becomes the type locality of this taxon.

**Examined specimens:** CROATIA. Benkovac; 44°02'N, 15°36'E; 5, 6-2002; 1 ♂, 1 ♀ (JMCB).

**Remarks:** The taxonomic concept of this taxon alternates among species, subspecies or variety. The last, generally accepted subspecific concept as *A. grandiceps hemiphanes* was proposed by Schaefer (1949). The long term unclear relationship between *A. hemiphanes* and *A. grandiceps* is caused by the lack of the type of *A. grandiceps* (see above). Schaefer's (1949) speculative subspecific treatment of *A. hemiphanes* was based just on the color difference cited by Kiesenweter (1857). His approach invoked the odd situation that the widely distributed subspecies *hemiphanes* has the nominal subspecies *grandiceps* of unknown taxonomic concept and known only from a small island. To prevent this, the species status of *A. hemiphanes* seems to be more practical.

#### ***Agrilus hirashimai hirashimai* Kurosawa, 1964**

**Examined specimens:** JAPAN. Ryukyu Islands: Akatsuchiyama, Amami-Oshima Island; 28°16'14"N, 129°21'21"E; 4-1978; 1 ♀ (NSMT).

#### ***Agrilus hmong* Jendek, 2011**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 5-2011; alt. 1300-1900 m; 2 (USNM); 1 (EJCB).

#### ***Agrilus hyperici* (Creutzer, 1799)**

**Examined specimens:** RUSSIA. Lipetsk: 30 km E of Yelets, Morozova gora; 52°34'N, 39°04'E; 7-2003; 1 (MCCD). SLOVAKIA. Dolné Vestenice; 48°42'N, 18°24'E; 8-2001; 2 (EJCB).

#### ***Agrilus hypericicola* Abeille de Perrin, 1893**

**Type material:** *Agrilus hypericicola* was described from an unstated number of syntypes from “Algérie: Tlemcen”. The syntypes were found in MHNG (4 syntypes) and MNHN (3 syntypes). The primary type of this species is fixed here. The lectotype of *A. hypericicola* Abeille de Perrin **by present designation**, ♂, MHNG: “Tlemcen juin 88 [p] \ hypericicola Ab. type”. Remaining syntypes are from the same locality as the lectotype and are considered to be paralectotypes.



***Agrilus inamoenus* Kerremans, 1892**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 5-2011; alt. 1300-1900 m; 1 (USNM).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011) and Jendek (2013a).

***Agrilus integerrimus* (Ratzeburg, 1837)**

**Examined specimens:** CZECH REPUBLIC. Ostrava-Martinov, Moravia; 49°49'N, 18°16'E; 5-2000; 1 (TSCO) – Roudnice; 50°10'44"N, 015°39'24"E; 7, 8-1974; 3 (NMPC); 6-1976; 1 (NMPC). RUSSIA. Ivanovo: Rubskoje Lake, Teykovsky dist; 56°49'N, 040°31'E; 6-2000; 1 (MSCI). SLOVENIA. Dole pri Litiji; 46°01'48"N, 015°01'21"E; 7-2004; 1 (EJCB) – Kočevje env.; 45°38'20"N, 014°51'39"E; 7-2002; alt. 900 m; 1 (EJCB) – Luče ob Savinji env., Pečovnik; 46°21'N, 14°44'E; 7-2000; 2 (JVCO). TURKEY. Sinop: Dranaz Geçidi; 41°41'17"N, 034°52'50"E; 6-2002; alt. 1350 m; 1 (EJCB).

***Agrilus jaminae* Baudon, 1968**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4, 5-2010; alt. 1300-1900 m; 3 (USNM).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus klapperichianus krupkai* Alexeev & Bílý, 1980**

**Examined specimens:** PAKISTAN. Lamri; 29°18'34"N, 82°16'23"E; 6-1997; alt. 2600 m; 1 (MNCA) – Mahangaon; 29°20'24"N, 82°23'21"E; 6-1997; alt. 3345 m; 1 (MNCA).

***Agrilus kurumi* Kurosawa, 1957**

**Examined specimens:** CHINA. Hubei: Dabieshan; 31°07'06"N, 115°48'57"E; 6-2008; alt. 640 m; 1 ♂ (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2009c) and Jendek & Grebennikov (2011).

***Agrilus lafertei* Kerremans, 1892**

**Examined specimens:** INDIA. Arunachal Pradesh: between Dirang & Bomdila Pass; 27°19'N, 92°22'E; 6-2004; alt. 1600-2100 m; 6 (EJCB). NEPAL. Purwanchal: Chichila; 27°28'N, 087°14'E; 6-2001; alt. 1900-2000 m; 1 (EJCB) – Deorali; 27°24'N, 087°20'E; 6-2001; alt. 1450-2800 m; 2 (EJCB) – Kosi-#10a, Mure; 27°30'N, 087°16'E; 6-2001; alt. 2000-2100 m; 1 (EJCB) – Mure; 27°30'N, 087°16'E; 6-2001; alt. 2000-2100 m; 1 (EJCB).

**Remarks:** For additional examined specimens see Jendek (2000) and Jendek & Grebennikov (2011).

***Agrilus lancrenoni* Baudon, 1965**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4, 5-2010; alt. 1300-1900 m; 9 (USNM).

***Agrilus laticornis* (Illiger, 1803)**

**Examined specimens:** CROATIA. Pelješac, Orebič; 42°58'44"N, 017°10'38"E; 6-2005; 1 ♂ (EJCB). SLOVENIA. Podgorski kras mts., Poljane nad Škofjo Loko; 46°07'16"N, 014°11'07"E; 6-2001; 2 (EJCB). SPAIN. Castilla y León: Monterrubio de Demanda, Ermita

de la Soledad env.; 42°08'58"N, 003°06'46"W; 6-2005; 1 ♂ (EJCB) – E of Béjar, Candelario-Navacarros; 40°22'41"N, 005°43'51"W; 6-2004; 1 ♂ (EJCB). UKRAINE. Crimea: Verkhnyaya Kutuzovka, Alushta dist.; 44°43'N, 034°22'E; 6-1996; 1 (MSCI).

### *Agrilus limoniastri* Bedel, 1886

**Type material:** *Agrilus limoniastri* was described from an unstated number of syntypes from “Biskra [Algeria]”. The syntypes were found in BMNH (2 syntypes), HNHM (1 syntype), MHNG (4 syntypes) and MNHN (6 syntypes). The primary type of this species is fixed here. The lectotype of *A. limoniastri* Bedel **by present designation**, ♂, MHNG: “Biskra [p] v. 86 [h] \ Limoniastri Bedel type [h]”. Remaining syntypes are from the same locality as the lectotype and are considered to be paralectotypes.

### *Agrilus lineatomaculatus* Jendek, 1994

**Examined specimens:** INDIA. Sikkim: Khecheopalri lake; 27°20'56"N, 088°11'30"E; 6-1999; alt. 1800 m; 2 (EKCS). LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4,5-2010; alt. 1300-1900 m; 7 (USNM); 5-2011; alt. 1300-1900 m; 1 (USNM).

### *Agrilus lineola lineola* Kiesenwetter, 1857 Fig. 3A

= *rumanicus* Obenberger, 1924

**Type material.** The specific name *rumanicus* Obenberger was put into the synonymy of *A. lineola* by Jendek (2006). The lectotype designation is fixed here. The lectotype of *A. rumanicus* Obenberger **by present designation**, ♂ (NMPC): “Rumänien Foscani Stier [p] 1917 [h] \ Typus [p] [red label with black border] \ *Agrilus lineola* ssp. *rumanicus* m. Type [h] Det. Dr Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24817 [h] [orange label]”. Described from inexplicit number of syntypes. **Unavailable names.** The name *lineola* is frequently used with Redtenbacher’s authorship. Redtenbacher (1847) did not propose this name as new, he attributed it to Germar who published *Buprestis lineola* Germar (1817), which is recently a synonym of *Aphanisticus pusillus* (Olivier, 1790). The specific name *lineola* Redtenbacher is an unavailable name. The name *lineolus* Kerremans was introduced to the synonymy of *A. lineola* Kiesenwetter by Obenberger (1936). Kerremans never proposed the name *lineolus* as new, he cited (Kerremans, 1903) the name as *lineolus* Redtenbacher (see paragraph above). Both specific names, *lineola* Redtenbacher and *lineolus* Kerremans are unavailable names.

**Examined specimens:** BULGARIA. Charmanli [= Harmanli], Chaskovo District; 41°56'N, 025°55'E; 5-1978; 1 (VKCB) – Shabla; 43°32'19"N, 028°32'07"E; 6-1993; 2 ♀ (EJCB) – Slancev Brjag [= Слънчев бряг]; 42°41'08"N, 027°42'42"E; 6-1966; 3 (EJCB) – Stara Kresna, Struma river; 41°47'31"N, 023°09'43"E; 6-1983; 1 (EJCB) – Varna; 43°12'50"N, 027°54'16"E; 6-1965; 2 (VKCB). GREECE. Lago Limni Volvi, Apolonia; 40°38'09"N, 023°26'45"E; 6-1995; 1 ♀ (EJCB) – Megalopoli env., Lefktro-Alfios river; 37°24'42"N, 022°04'33"E; 7-1996; 1 (EJCB). Dytiki Ellada: Limnitsa (3 km SSE - 4 km SE) Mornos riv; 38°30'28"N, 021°59'29"E; 6-1995; alt. 500 m; 2 ♂, 1 ♀ (EJCB). ITALY. Veneto: Padova; 45°24'19"N, 011°51'42"E; 5-1948; 1 ♀ (EJCB) – Verona; 45°26'57"N, 010°59'33"E; 5-1959; 1 ♀ (EJCB). MACEDONIA. Dojran; 41°13'38"N, 022°41'55"E; 6-1978; 10 (VKCB) – Nov Dojran; 41°13'38"N, 022°41'55"E; 6-1978; 10 (EJCB). ROMANIA. Banat, Sasca Montana; 44°53'49"N, 021°42'48"E; 6-1986; 1 ♂, 1 ♀ (EJCB). SERBIA. Veliko Gradište; 44°45'41"N, 021°30'50"E; 6-1954; 1 ♂ (EJCB). SLOVAKIA. Bratislava env.; 48°14'11"N, 017°11'48"E; 7-1987; Larval host: *Salix alba* L.; 4 (EJCB) – Bratislava-Rača; 48°10'44"N, 017°07'52"E; 6-2004; 15 (EJCB) – Čenke [= Čenkov]; 47°45'55"N, 018°31'44"E; 6-1955; 1 ♀ (EJCB) –

Hlohovec; 48°25'51"N, 017°47'17"E; 6-1970; 1 ♂ (VKCB); 7-1980; 4 (VKCB); 7-1980; 50 (EJCB) – Malé Trakany; 48°24'06"N, 022°06'27"E; 6-1995; 1 ♂, 1 ♀ (EJCB) – Patince; 47°44'25"N, 018°17'23"E; 2001; Larval host: *Salix alba* L.; 1 ♂ (EJCB) – Sirník env.; 48°31'15"N, 021°48'11"E; 7-1995; 1 ♀ (EJCB). SLOVENIA. Jablanica, Ilirska Bistrica; 45°33'N, 14°15'E; 7-2002; 1 (JVCO) – Kozina env., Kras hill, Kastelec; 45°35'03"N, 013°52'09"E; 7-2002; 1 (EJCB).

**Host plants cited:** Larval host: *Salix alba* L.

**Distribution:** Europe: Albania; Austria; Belarus; Bosnia and Herzegovina; Bulgaria; Croatia; Czech Republic; France, Corse; Greece; Hungary; Italy: Sardegna, Sicilia, Veneto; Macedonia; Moldova; Montenegro; Poland; Romania; Serbia; Slovakia; Slovenia; Switzerland.

**Remarks:** See Remarks under *A. lineola hermineus*.

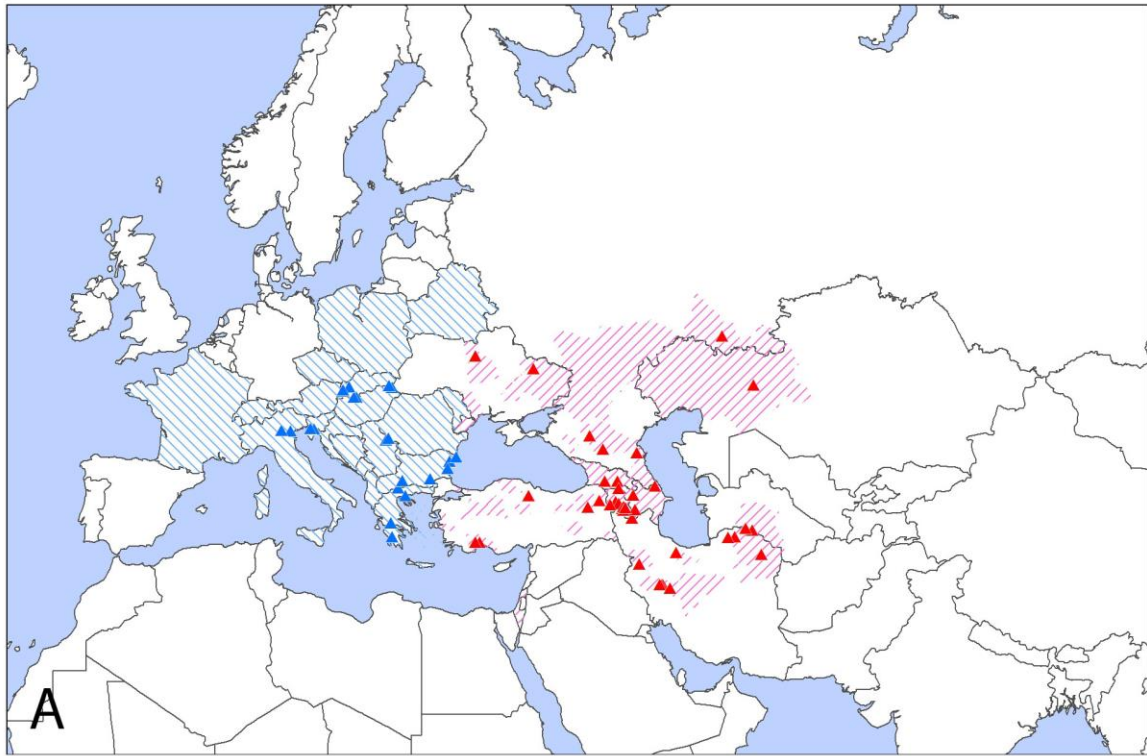
***Agrilus lineola hermineus* Abeille de Perrin, 1907 revalidated name, stat. nov.** Fig. 3A  
= *shamyl* Obenberger, 1922 **syn. nov.**

**Type material:** The specific name *hermineus* Abeille de Perrin was proposed from 3 syntypes “trois sujets”, from the type locality: “Elisabethopol [= Ganca, 40°40'N, 46°22'E, Azerbaijan] (Caucase)”. The lectotype designation of this nominal taxon is proposed here. The lectotype of *A. hermineus* Abeille de Perrin **by present designation**, ♂ (MNHN): “Elisavetpol [h] \ hermineus Ab. [h] Syntype [p] [red ink] \ Muséum Paris 1919 Coll. A. de Perrin [p]”. There are also two paratypes, one from the same locality as the lectotype and a second from Caucasus.

The name *shamyl* was proposed by Obenberger in 1922 for a species from the type locality: “Caucasus”. The single syntype in NMPC is here designated as a lectotype. The lectotype of *A. shamyl* Obenberger **by present designation**, ♂ (NMPC): “Caucase [h] \ TYPUS [p] [red label] \ Agrilus Shamyl m. Type [h] Det. Dr. Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 26819 [h] [orange label]”

**Unavailable name.** The specific name *picturellus* Obenberger is treated by Jendek (2006) as an unavailable synonym of *A. lineola*. Because the type locality is “Südrußland ... Sareptaner Distrikt. [= Russia, Volgograd]”, the name is moved from the synonymy of *A. lineola* to the synonymy of *A. lineola hermineus*.

**Examined specimens:** ARMENIA. 10 km S Yekhnadazor [= Yeghgnadazor]; 39°39'24"E, 045°17'54"E; 7-2001; 1 ♀ (EJCB) – Aurum; 41°11'25"N, 044°54'06"E; 6-1984; 1 ♀ (EJCB) – Vernashen; 39°47'33"N, 045°21'43"E; 6-1986; Larval host: *Salix*; 2 ♂ (EJCB) – Yerevan, Jrvezh; 40°10'37"N, 044°36'27"E; 7-1956; 1 ♂ (EJCB). Ararat: Khosrov Forest State Reserve; 40°02'15"N, 044°55'02"E; 6-1988; 1 ♂ (EJCB). Syunik': 12 km ENE of Tekh [=Tegh]; 39°33'56"N, 046°33'45"E; 6-1998; 1 ♀ (EJCB) – Meghri dist., Litshk; 38°53'31"N, 046°15'24"E; 7-1998; 2 ♂ (EJCB). Vayoc Jor: 10 km E Vayk; 39°41'29"N, 045°33'47"E; 7-2003; 1 ♀ (EJCB). AZERBAIJAN. Alekseevka, Talysh; 41°22'22"N, 048°34'42"E; 1 ♀ (EJCB) – Buzgov [= Buzqov]; 39°30'25"N, 045°23'56"E; 7-1982; 1 ♂ (EJCB) – Elisabethopol [= Ganja]; 40°40'58"N, 046°21'38"E; 2 (EJCB). GEORGIA. Bakuriani; 41°45'N, 043°31'44"E; 8-1934; 1 ♀ (EJCB) – Tbilisi; 41°44'08"N, 044°46'34"E; 7-1946; Adult host: *Salix*; 3 (EJCB); 6-1988; 1 (EJCB). IRAN. Esfahan: Nowghan; 33°11'N, 050°04'E; 6-1974; 8 (EJCB). Khorasan-e Razavi: 50 km SEE Nishapur [= Nishapur]; 35°59'54"N, 059°15'54"E 6-1977; alt. 1400 m; 4 ♂ (NMPC). Khorasan-e Shemali: Chaman bid; 37°25'46"N, 056°33'09"E; 6-2004; 1 ♂ (EJCB) – Golestan, Forest; 37°22'N, 055°54'E; 5-2000; alt. 650 m; 1 ♀ (EJCB). Kordestan: S de Sanandaj; 35°13'N, 047°00'E; 6-1975; 1 ♂ (EJCB). Lorestan;



**Figures 3A–3B.** Distribution of *Agrilus*. Triangles indicate locality of examined specimens, hatching indicates compiled range or by distribution. **3A**, *A. lineola lineola* Kiesenwetter, 1857 blue color, *A. lineola hermineus* Abeille de Perrin, 1907 red color; **3B**, *A. salicis* Frivaldszky, 1877.

7 km SE of Dorud; 33°26'48"N, 049°13'18"E; 6-2011; 1 (EJCB) – Azna; 33°28'N, 049°22'E; 6-1975; 2 (EJCB) – Zagros Mt., Dorud; 33°29'14"E, 049°03'49"E; 7-2010; 2 (EJCB). Tehran: 10 km N Ziaran; 36°07'N, 050°39'25"E; 5, 6-2011; alt. 2100 m; Adult host: *Salix*; 15 (EJCB). KAZAKHSTAN. Aqtöbe oblysy: Mugodzhany [= Mugodzharskoye], Jurillinoe; 48°35'N, 058°27'32"E; 6-1995; 3 (EJCB). RUSSIA. Dagestan: Kislär [= Kizlyar]; 43°50'40"N, 046°42'47"E; 1 ♂ (EJCB) – steppe around Kizlar [= Kizlyar]; 43°50'40"N, 046°42'47"E; 2 (EJCB). Orenburg: Chkalovskaya obl. [= Orenburg region], s. Kolovratnos, Ural river bank; 51°44'17"N, 055°17'14"E; 8-1952; Adult host: *Salix*; 2 ♂ (EJCB). Stavropol: River Kuma; 44°06'11"N, 043°19'35"E; 6-1891; 1 (NMPC) – Stavropol; 45°02'51"N, 041°58'58"E; 7-1884; 1 (NMPC); 7-1889; 1 (NMPC). TURKEY. Amasya: Amasya; 40°39'E, 035°49'59"E; 1 ♀ (EJCB). Antalya: Antalya, North Sarigin; 36°59'14"N, 030°54'25"E; 7-1988; 2 ♀ (EJCB) – Termessos; 36°58'57"N, 030°27'53"E; 6-1981; 7 (EJCB). Erzurum: Hwy 955, Aras valley, 27.9 km SSW of Koprükoy; 39°43'56"N, 041°47'56"E; 7-2005; alt. 1798 m; 2 ♂, 1 ♀ (ZIN). Kars: Arax valley, 20 km NW of Kagizman; 40°16'22"N, 042°57'18"E; 6-1997; 1 ♂ (ZIN) – Arax valley, İğdir env.; 39°55'24"N, 044°02'44"E; 6-1997; 1 ♀ (ZIN). TURKMENISTAN. Ahal: 25 km SW Geok-Tepe [= Gokdepe]; 38°05'10"N, 057°41'19"E; 7-1991; 2 ♀ (ZIN) – Ashgabat, Vonovske; 37°56'33"N, 058°20'24"E; 5-1987; 1 ♂ (EJCB). UKRAINE. Kharkiv: Gaydary; 49°37'40"N, 36°18'25"E; 6-1983; 1 ♀ (NMPC). Kiev: Kiev, o. Muromec, zakaznik Urochishche Bobrovnaya; 50°27'15"N, 030°28'37"E; 5-2011; 1 ♂ (EJCB); 5-2011; Larval host: *Salix*; 1 ♀ (EJCB).

**Host plants cited:** Larval host: *Salix* sp., Adult host: *Salix* sp.

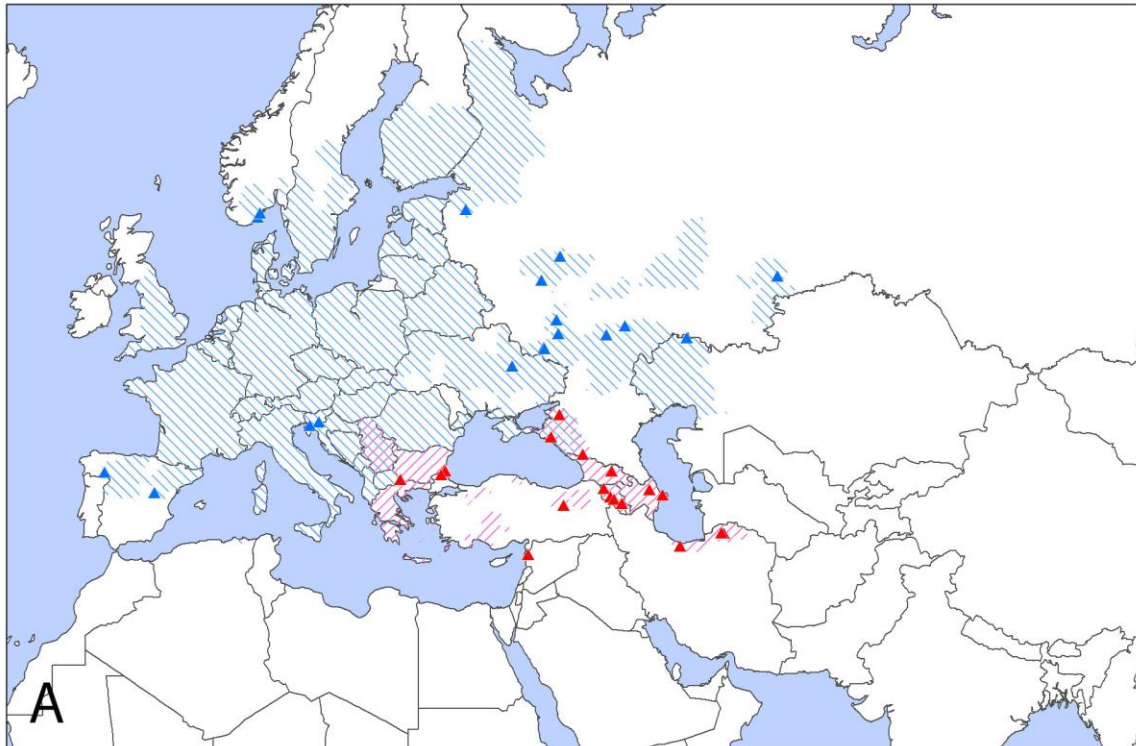
**Distribution:** Asia: Armenia; Azerbaijan; Georgia; Iran: Esfahan, Khorasan-e Razavi, Khorasan-e Shemali, Kordestan, Lorestan, Tehran; Israel; Kazakhstan: Aqtöbe oblysy, Atyrau oblysy, Batys Qazaqstan oblysy; Turkey: Amasya, Ankara, Antalya, Bilecik, Burdur, Diyarbakır, Erzincan, Erzurum, Eskişehir, Hakkâri, İzmir, Kars, Kastamonu, Kütahya, Yozgat; Turkmenistan: Ahal. Europe: Russia: Adygeya, Dagestan, Orenburg, Rostov, Saratov, Stavropol, Volgograd, Voronezh; Turkey: İstanbul; Ukraine: Cherkasy, Dnipropetrovsk, Donetsk, Kharkiv, Kiev, Luhansk, Odessa.

**Remarks:** *Agrilus hermineus* was considered conspecific with *A. lineola* by Niehuis & Tezcan, (1993), Jendek (2006) and Bellamy (2008). *Agrilus shamyl* was considered as a subspecies of *A. lineola* since Volkovitsh & Alexeev (1994). The type examination revealed that *A. shamyl* and *A. hermineus* are consubspecific, but *A. hermineus* was described earlier. *Agrilus lineola lineola* can be distinguished by having the prehumeral tubercular or filamentary, by pubescence and tomentum less developed and less extensive. *Agrilus lineola shamyl* has prehumeral sharply carinal, pubescence is usually more prominent and combined with striking tomentum.

### *Agrilus litura* Kiesenwetter, 1857

**Examined specimens:** BULGARIA. Kiten env.; 42°13'51"N, 027°45'39"E; 7-1987; 3 ♂ (EJCB). CROATIA. Obrovac; 44°11'57"N, 015°40'48"E; 6-2001; 2 (EJCB). CZECH REPUBLIC. Pohansko, Moravia; 48°45'32"N, 016°52'31"E; 7-1996; 4 (TSCO). GREECE. Makedonia, Olympiada; 40°34'13"N, 021°36'E; 7-2002; 2 ♀ (EJCB). SLOVAKIA. ostrov Kopáč; 48°06'N, 17°10'E; 7-2004; Larval host: *Quercus*; 1 (EJCB). SLOVENIA. Ocizla, ex larva; 45°35'33"N, 013°54'05"E; 5-2001; Larval host: *Quercus*; 1 ♂ (EJCB) – Petrinje, Podgorski Kras mts; 45°33'N, 13°53'E; 2000; 1 ♂ (JVCO).

**Host plants cited:** Larval host: *Quercus* sp.



**Figures 4A–4B.** Distribution of *Agrilus*. Triangles indicate locality of examined specimens, hatching indicates compiled range or by distribution. **4A**, *A. sulcicollis* Lacordaire, 1835 blue color, *A. buresi* Obenberger, 1935 red color; **4B**, *A. transversesulcatus transversesulcatus* Reitter, 1890 blue color, *A. transversesulcatus validiusculus* Semenov, 1891 red color.

***Agrilus livens* Kerremans, 1892**

**Examined specimens:** MYANMAR. Mandalay: Mt. Popa Wildlife Reserve, Mt. Popa Hotel and env.; 7-2008; 1 (MNCA) – Taunggyi; 21°20'N, 095°59'E; 6-1952; Adult host: *Cajanus crassus* (King) Maesen; 4 (EJCB); 7 (USNM). THAILAND. Chiang Mai: Doi Chiang Dao env.; 19°24'45"N, 098°51'30"E; 5-2009; alt. 1150-1250 m; 3 (EJCB). Loei: Na Haeo; 17°28'48"N, 101°04'12"E; 5-2003; 2 (ISNB). Phuket: Phuket Island; 07°58'N, 098°21'05"E; 4-2007; 1 (MKCY). Tak: Sop Moei; 17°48'N, 097°57'23"E; 5-2005; alt. 600 m; 2 (MNHE).

**Host plants cited:** Adult host: *Cajanus crassus* (King) Maesen.

***Agrilus lubopetri* Jendek, 2000**

**Examined specimens:** LAOS. Houaphan: 38 km (road) S of Sam Neua, Ban Saleuy; 20°13'N, 104°00'E; 5-2009; alt. 1350-1850 m; 5 (EJCB) – Ban Saleuy, Phou Pane Mt.; 20°13'N, 104°00'E; 5, 6-2009; alt. 1340-1870 m; 6 (EJCB); 6-2011; 22 (EJCB) 23 (NMPC); – Phou Pane Mt.; 20°13'N, 104°00'E; 6-2009; alt. 1480-1550 m; 4 (EJCB). MYANMAR. Kachin: Sikaw; 23°49'48"N, 097°04'30"E; 6-2009; 1 ♂, 1 ♀ (EJCB). VIETNAM. Vinh Phuc: Tam-Dao NP, Tam-Dao env.; 21°27'38"N, 105°38'28"E; 5-2012; alt. 900-1200 m; 1 ♂ (CNC).

***Agrilus lugu* Jendek, 2011**

**Examined specimens:** CHINA. Yunnan: Lijiang, 16.4 km NE Lijiang; 27°01'01"N, 100°08'37"E; 7-2011; alt. 2734 m; 3 (USNM).

***Agrilus lukesi* Obenberger, 1936**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4,5-2010; alt. 1300-1900 m; 21 (USNM); 5-2011; 2 (USNM) 1 (EJCB). Louangphabang: 60 km SW Louang Phrabang, Thong Khan; 5-2009; alt. 750 m; 1 ♂ (MNCA). THAILAND. Phetchabun: Thung Salaeng Luang NP; 16°37'11"N, 100°53'30"E; 5-2007; alt. 706 m; 1 (EJCB). Phitsanulok: Chai Trakan; 17°20'17"N, 100°42'31"E; 5-2005; alt. 200 m; 1 (MNHE).

***Agrilus macroderus* Abeille de Perrin, 1897**

**Examined specimens:** AUSTRIA. Burgenland: Neusiedlerseegebiet, Hackelsber; 47°57'14"N, 016°46'27"E; 6-1974; 1 (EJCB). BULGARIA. Carevo env.; 42°10'17"N, 027°50'43"E; 6-2004; 4 (EJCB) – Lozenec; 42°12'N, 027°48'E; 7-1987; 5 (EJCB) – Ropotamo riv. Nat. Park; 42°19'17"N, 027°44'02"E; 6-1982; 5 (EJCB) – Slnčev Briag; 42°41'N, 27°42'E; 5-1979; 1 (EJCB) – Stara Planina Mts, Ljutibrod [= Lyutibrod] env.; 43°06'25"N, 023°37'43"E; 6-1999; 1 (EJCB). CROATIA. Split; 43°31'N, 016°28'15"E; 6-1955; 1 ♂ (EJCB) – Vinodol, G. Zagon; 45°09'N, 014°47'E; 6-2001; 1 (EJCB). GEORGIA. Kartli mg., 25 km NE Tbilisi, Givani distr., Mshalkhevi env.; 6-2008; 2 (EJCB). IRAQ. Nord Iraq; 1 ♂, 1 ♀ (EJCB). ROMANIA. Comana Vlasca; 44°10'32"N, 026°10'37"E; 4 (MNHN). RUSSIA. Krasnodar: 10 km N Adygeisk [= Teuchezhsk]; 44°46'N, 039°12'E; 6-1974; 1 ♀ (ZIN) – Kaluzhskaya; 7-1976; 2 (ZIN) – Taman', kh. Belyi; 45°12'N, 036°42'E; 6-1978; 1 ♂ (EJCB). SLOVAKIA. Dolné Vestenice; 48°42'N, 18°24'E; 7-2001; 2 (EJCB). SLOVENIA. Kastelec, Kras hill; 45°34'N, 13°51'E; 7-2002; 1 (JVCO). UKRAINE. Crimea: okr. Dlushty; 6-1996; 1 (MSCI) – Verknyaja Kutuzovka, Alushta distr.; 44°44'N, 034°22'E; 6-1996; 1 ♂ (EJCB). Transcarpathia: Kelecsény [= Kelechyn]; 48°37'42"N, 023°23'16"E; 1 ♂ (EJCB).

**Remarks:** The undocumented record of Nonnaizab, Qi Baoying & Li Yabai (1999) from Nei Mongol in China is dubious and excluded from the distributional range.

***Agrilus madeci* Baudon, 1968**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4,5-2010; alt. 1300-1900 m; 108 (USNM); 5-2011; 6 (EJCB) 25 (USNM) – Ban Saleuy, Phou Pane Mt.; 20°12'30"N, 104°00'E; 6-2011; alt. 1340-1870 m; 7 (NMPC).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus malicola* Rungs & Schaefer, 1948**

**Examined specimens:** MOROCCO. Fes-Boulemane: Sefrou; 33°49'49"N, 004°50'16"W; 5-1949; Larval host: *Pyrus malus* L.; 7 (EJCB).

**Host plants cited:** Larval host: *Pyrus malus* L.

***Agrilus marozzinii* Gobbi, 1974**

**Examined specimens:** GREECE. Ionia Nisia: Kérkira isl.-NE, Barbati (1 km NNW); 39°43'15"N, 019°51'48"E; 7-2015; alt. 360 m; Adult host: *Pistacia*; 1 (VKCB).

**Host plants cited:** Adult host: *Pistacia* sp.

***Agrilus mendax* Mannerheim, 1837**

**Examined specimens:** RUSSIA. Ivanovo: Rubskoje Lake, Teykovsky dist.; 56°49'N, 040°31'E; 7-1990; 1 (MSCI).

***Agrilus miwai* Obenberger, 1936**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4,5-2010; alt. 1300-1900 m; 434 (USNM); 5-2011; 9 (EJCB) 350 (USNM) – Ban Saleuy, Phou Pane Mt.; 20°12'30"N, 104°00'E; 6-2011; alt. 1340-1870 m; 75 (NMPC).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus moerens* Saunders, 1873**

**Examined specimens:** JAPAN. Honshu: Tsukuba, Ibaraki; 36°06'30"N, 140°05'04"E; 6-2006; 1 ♀ (RKCK).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus mongolorum* Obenberger, 1936**

**Examined specimens:** CHINA. Nei Mongol: Wuhai City, Mengxi; 39°39'36"N, 106°48'E; 5-2001; Adult host: *Ziziphus jujuba* Mill.; 2 (EJCB).

**Host plants cited:** Adult host: *Ziziphus jujuba* Mill.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus monogrammus* Thomson, 1879**

**Examined specimens:** INDIA. Jammu and Kashmir: Kasmir, Lihenwan-Morgan Pass; 6-1980; 1 (MZUF). Uttarakhand: between Badarinath and Govind Ghat; 30°39'45"N, 079°31'01"E; 7-1994; alt. 2800 m; 21 (EJCB). NEPAL. Purwanchal: Bajhang way to Talkot to N of Lokanda village; 29°39'30"N, 081°19'14"E; 6-2009; alt. 1400-2000 m; 1 ♀ (MNCA).



***Agrilus morawitzi* Obenberger, 1936**

**Examined specimens:** KAZAKHSTAN. Shyghys Qazaqstan oblysy: Sasykhol' [= Sasykkol] lake env., Urdzharsk region; 46°35'N, 081°00'E; 7-2006; 1 ♂ (RKCK).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus morio* Kerremans, 1895**

**Type material:** This species was described from an unstated number of syntypes from Kurseong [West Bengal, India]. The single syntype found in MNHN is designated here as a lectotype. The lectotype of *Agrilus morio* Kerremans **by present designation**, ♀, MNHN: "Environs de Kurseong R. P. Bretaudeau [p] \ morio Kerr. Type [h] \ Kerremans vidit 1895 [p] \ collectio Oberthür [p]".

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4,5-2010; alt. 1300-1900 m; 5 (USNM); 5-2011; 5 (EJCB) 9 (USNM).

***Agrilus muscarius* Kerremans, 1895**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4 5-2010; alt. 1300-1900 m; 12 (USNM); 5-2011; 2 (EJCB) 17 (USNM). THAILAND. Phetchabun: Nam Nao NP, Checkpoint; 15°37'25"N, 105°36'53"E; 3-2007; alt. 921 m; 1 ♂ (EJCB) – Nam Nao NP, Checkpoint; 16°43'43"N, 101°33'50"E; 3-2007; alt. 927 m; 2 ♀ (EJCB). Phitsanulok: Thung Salaeng Luang NP, Deciduous forest; 16°50'44"N, 100°51'15"E; 4-2007; alt. 501 m; 1 ♀ (EJCB). Tak: Tak Municipal city [= Mueang Tag]; 16°53'06"N, 099°07'37"E; 5-1952; 1 (USNM). Ubon Ratchathani: Pha Taem NP; 15°37'19"N, 105°36'54"E; 4-2007; alt. 438 m; 1 ♂ (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2009c) and Jendek & Grebennikov (2011).

***Agrilus nepalensis* Tôyama, 1988**

**Examined specimens:** INDIA. Arunachal Pradesh: Dirang vicinity; 27°21'N, 092°13'E; 5-2006; alt. 1700-1900 m; 1 ♂ (EJCB) – Etalin vicinity; 28°35'N, 095°52'E; 6-2007; alt. 700-900 m; 23 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus nicolanus* Obenberger, 1924** Fig. 5C

**Examined specimens:** POLAND. Podlaskie: FD94, BPN, odd. 398-399; 52°43'N, 023°51'E; 6-1998; 1 ♂ (RKCK).

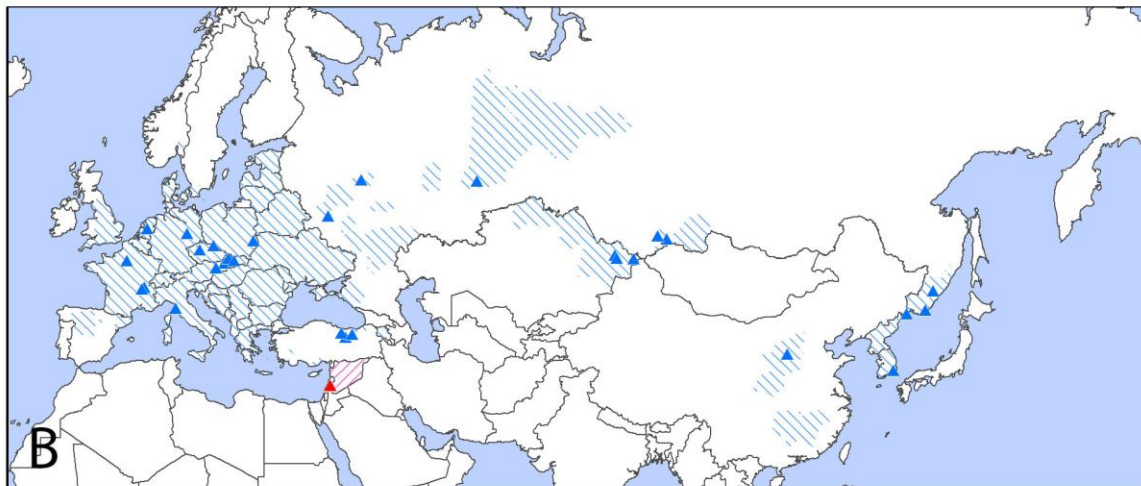
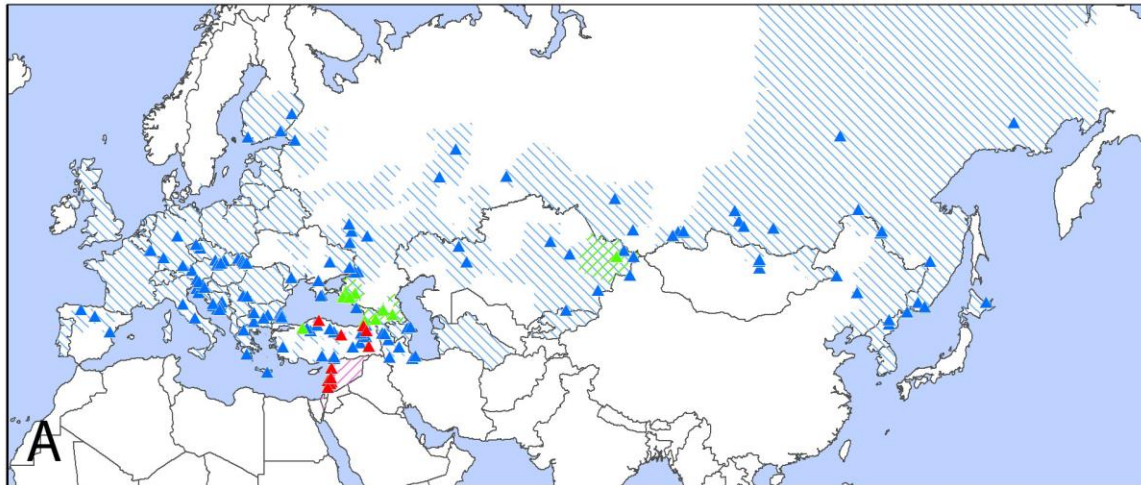
**Distribution:** Asia: China: Beijing, Hebei, Hubei, Nei Mongol; Japan: Honshu, Kyushu, Shikoku; North Korea; Russia: Kemerovo, Primorye; South Korea. Europe: Poland: Podlaskie; Russia: Lipetsk

**Remarks:** The discovery of this east Asian species in Poland is very surprising. For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus nipponigena* Obenberger, 1935**

**Examined specimens:** CHINA. Hubei: Dabieshan; 31°07'06"N, 115°48'57"E; 6-2008; alt. 640 m; 2 (CNC). TAIWAN. Meishan env., Kaohsiung, 100 km NW Taitung; 23°15'54"N, 120°49'30"E; 6-2008; alt. 950 m; 1 ♂ (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).



**Figures 5A–5C.** Distribution of *Agrilus*. Triangles indicate locality of examined specimens, hatching indicates compiled range or by distribution. **5A**, *A. cuprescens cuprescens* (Ménétriés, 1832) blue color, *A. cuprescens amethystopterus* Semenov, 1891 green color, *A. cuprescens chrysoderes* Abeille de Perrin, 1891 red color; **5B**, *A. cyanescens cyanescens* (Ratzeburg, 1837) blue color, *A. cyanescens johanidesi* Niehuis, 1999 red color; **5C**, *A. nicolanus* Obenberger, 1924.

***Agrilus niveoguttatus* Kerremans, 1892**

**Examined specimens:** CHINA. Yunnan: near Pu'er, Sticky trap on tree trunk; 22°41'59"N, 101°10'46"E; 5, 6-2013; alt. 1366 m; 1 ♂ (USDA). LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4,5-2010; alt. 1300-1900 m; 49 (USNM); 5-2011; 2 (EJCB) 4 (USNM). NEPAL. Purwanchal: Khandbari, river S of Bote Bash; 27°22'N, 087°12'E; 6-2001; alt. 1000-1550 m; 1 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus nivosus* Abeille de Perrin, 1900**

**Examined specimens:** CHINA. Xinjiang: Manasi County; 44°19'12"N, 011°24'E; 6-1959; alt. 1200 m; 1 (IZAS) – Tekesi County; 43°56'24"N, 081°19'48"E; 8-1957; alt. 1240 m; 1 (IZAS) – Yi'ning City [= Yining (Gulja)], valley; 43°55'N, 081°19'E; 8-1957; alt. 690 m; 2 (IZAS). KAZAKHSTAN. Batys Qazaqstan oblysy: Uralsk reg., 10 m, Chapaev; 50°11'41"N, 051°09'05"E; 6-1999; alt. 10 m; 3 (EJCB). KYRGYZSTAN. 10 km S Bishkek; 42°41'48"N, 074°36'01"E; 6-1999; 1 ♀ (EJCB). Bishkek: Beshkungei near Bishek; 42°51'N, 074°36'E; 6-2006; alt. 800 m; 1 (RKCK).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus obscuricollis* Kiesenwetter, 1857**

**Examined specimens:** ARMENIA. Syunik': Syunik prov., ~6 km Shvanidzor; 38°58'37"N, 046°21'52"E; 6-2007; 2 (EJCB). AZERBAIJAN. Alty-Agatsch; 40°52'N, 048°56'E; 5-1987; 1 ♀ (EJCB). MOLDOVA. 20 km Yu Kagula, les; 6-1974; 1 ♀ (ZIN) – Bendery (= Tighina) env.; 46°49'N, 029°28'E; 6-1974; 1 ♂ (ZIN) – Bendery (= Tighina) env.; 46°49'N, 029°28'E; 7-1982; 1 ♀ (EJCB). SLOVENIA. Petrinje, Podgorski Kras mts; 45°33'N, 13°53'E; 6-2001; 2 (JVCO). TURKEY. Kütahya: Kütahya, Porsuk Bj.; 39°23'23"N, 029°58'51"E; 5-2001; 1 ♂ (EJCB). Osmaniye: Fevzipasa - Hasanbeyli; 37°07'53"N, 036°33'26"E; 6-2001; 1 ♂, 2 ♀ (EJCB). UKRAINE. Crimea: Verkhnyaya Kutuzovka; 6-1996; 3 (MSCI).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus occipitalis* (Eschscholtz, 1822)**

**Examined specimens:** MALAYSIA. Negeri Sembilan: Port Dickson (SE env.); 02°31'N, 104°48'E; 4-2003; 1 ♀ (EJCB). SINGAPORE. Katong; 01°18'36"N, 103°54'E; 7-1976; Adult host: *Citrus*; 2 (ZRC) – Namly Ave, wasteland; 01°19'48"N, 103°48'E; 3-1975; 1 (ZRC) – University Campus; 01°19'12"N, 103°49'12"E; 3-1974; Adult host: *Citrus*; 1 (ZRC).

**Host plants cited:** Adult host: *Citrus* sp.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011) and Jendek (2013).

***Agrilus olivaceidorsis* Obenberger, 1917**

**Examined specimens:** CHINA. Yunnan: Mt. Gaoligongshan; 25°08'N, 098°43'E; 6-2011; 3 (SWBU) – Xishuangbanna, 23 km NW Jinghong vic. Na Ban (NNNR); 22°09'29"N, 100°39'56"E; 5-2009; alt. 730 m; 1 (MNCA). LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°13'N, 104°00'E; 5, 6-2009; alt. 1340-1870 m; ~600 (NMPC) – Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4,5-2010; alt. 1300-1900 m; 248 (USNM); 5-2011; 52 (USNM) – Ban Saleuy, Phou Pane Mt.; 20°12'30"N, 104°00'E; 6-2011; alt. 1340-1870 m; 134 (NMPC). Oudômxi: Beng; 20°12'N, 101°48'E; 5-2010; 1 (HHCR). THAILAND. Chaiyaphum: Tat Tone NP, Dry Dipterocarp Forest; 15°59'03"N, 102°02'06"E; 6-2006; alt. 250 m; 1 (EJCB) –

Tat Tone NP, Phu hang sing; 15°58'44"N, 102°02'14"E; 7-2006; 1 (EJCB). Chiang Mai: Chiangmai [= Chiang Mai]; 18°42'25"N, 098°58'48"E; 4-1958; 1 (SWBU). Loei: Na Haeo; 17°28'48"N, 101°04'12"E; 5-2003; 1 (ISNB); 5,6-2003; 1 (ISNB). Ubon Ratchathani: Pha Taem NP, First level Huay Sa-nhom waterfall; 15°27'27"N, 105°34'52"E; 5-2007; alt. 230 m; 2 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

### *Agrilus oliveri* Niehuis, 1989

**Examined specimens:** TURKEY. Erzincan: Kilickaya; 39°35'09"N, 039°35'28"E; 7-1998; 1 (EJCB). Tunceli: Pülümür, ca 10 km nördl. Erzincan; 39°29'02"N, 039°53'39"E; 7-1988; 1 ♂ PT (EJCB).

**Remarks:** The only character of this taxon beyond the ordinary variability of *A. viridis* is the white elytral pubescence similar to that of *A. proteus*. *Agrilus oliveri* can be considered conspecific with *A. viridis* in its current broad concept. See also Remarks under *A. proteus*.

### *Agrilus olivicolor* Kiesenwetter, 1857

**Examined specimens:** BULGARIA. Ropotamo Nat. Park; 42°19'14"N, 027°44'17"E; 6-1982; 2 (EJCB) – Stara Planina Mts, Ljutibrod [= Lyutibrod] env.; 43°06'25"N, 023°37'43"E; 6-1999; 1 ♂ (EJCB). MACEDONIA. Shar Mts., 1320 m, Sharski [= Sarski] Vodi Hut; 41°48'14"N, 020°48'07"E; 7-1988; alt. 1320 m; 1 ♂ (EJCB). NETHERLANDS. Bunder - Bos; 7-1965; 1 ♀ (EJCB). POLAND. Rogow at Koluszki; 51°49'10"N, 019°52'56"E; 8-1989; 4 (EJCB). ROMANIA. Munții Căpățâni, 7 km SW of Polovragi; 45°06'02"N, 023°43'54"E; 6-2002; 1 (EJCB). SLOVAKIA. Dolné Vestenice; 48°42'N, 18°24'E; 6-2001; 1 (EJCB); 7-2001; 1 (EJCB). SLOVENIA. Črni Hribi mts. Temnica; 45°49'N, 13°40'E; 7-2000; 3 (JVCO). UKRAINE. Crimea: Jalta; 44°29'N, 034°09'E; 6, 7-1990; 1 ♀ (EJCB).

### *Agrilus ornatus* Deyrolle, 1864

**Examined specimens:** INDONESIA. Maluku archipelago: Ambon; 03°40'S, 128°10'E; 1938; 1 (USNM) – Halmahera Isl., Jailolo Distr., Kampung Pasir Putih; 00°53'N, 127°41'E; 1-1981; 1 (USNM); 2-1981; 1 (USNM). PHILIPPINES. Luzon island group: Kolombangan, Mindanao; 4 (USNM) – Mt. Moises, Isabela, Luzon; 1926; 22 (USNM). Mindanao island group: Butuan, Mindanao; 08°56'47"N, 125°31'59"E; 57 (USNM) – Dapitan, Mindanao; 2 (USNM). Palawan: Puerto Princesa; 09°58'05"N, 118°47'10"E; 3 (USNM). Romblon: Island Sibuyan; 4 (USNM). Visayas island group: Camp 7.25 km W. Cebu City; 10°19'38"N, 123°48'50"E; 9-1965; 1 (USNM) – Island Biliran; 1 (USNM) – Island Samar; 12°00'N, 125°00'E; 9 (USNM). SINGAPORE. Upper Peirce park; 01°22'12"N, 103°48'36"E; 2-2007; 1 (ZRC). TAIWAN. Pingtung, Chaochou [= Chaozhou]; 22°32'47"N, 120°32'51"E; 1-2013; Adult host: *Pterocarpus indicus* Willd.; 1 (EJCB). THAILAND. Chaiyaphum: Pa Hin Ngam NP, ecotone between mix deciduous/dry dipterocarp; 15°38'08"N, 101°23'55"E; 8-2006; alt. 698 m; 2 (EJCB) – Tat Tone NP, Dry Dipterocarp forest; 15°59'03"N, 102°02'06"E; 6-2006; alt. 250 m; 6 (EJCB) – Tat Tone NP, Lawn near Sab Somboon forest unit; 16°00'58"N, 101°58'26"E; 9-2006; alt. 648 m; 1 (EJCB). Chiang Mai: Sa Moen; 18°57'56"N, 098°42'55"E; 5-2005; 1 (MNHE). Loei: Phu Kradueng NP, Dry dipterocarp forest at Loei forest unit 2 (E-lerd); 16°56'42"N, 101°48'54"E; 9-2006; alt. 273 m; 3 (EJCB). Nan: Nam Tok; 18°24'11"N, 100°37'35"E; 5-2004; 1 ♀ (NMPC). Sakon Nakhon: Phu Pha Yon NP, Deciduous dipterocarp forest; 7-2006; alt. 295 m; 1 (EJCB).

**Host plants cited:** Adult host: *Pterocarpus indicus* Willd.

***Agrilus paludicola* Krogerus, 1922** Fig. 6B

**Examined specimens:** NETHERLANDS. Baarn; 52°12'33"N, 005°16'13"E; 6-1948; 1 ♀ (EJCB) – Soest Utrecht; 52°10'15"N, 005°18'08"E; 6-1948; 1 ♀ (EJCB) – Spoorndonk; 51°31'07"N, 005°16'09"E; 6-1960; 1 ♀ (EJCB). NORWAY. Dovrefjell, Hjerkin; 62°13'29"N, 009°35'09"E; 7-1973; alt. 1000 m; 1 ♀ (EJCB) – Geilo; 60°32'01"N, 008°12'32"E; 7-1976; 1 ♂ (EJCB) – Hjerkin; 62°13'28"N, 009°32'50"E; 7-1977; 1 ♀ (EJCB). RUSSIA. Komi: Pechora; 65°08'N, 057°12'E; 7-1976; 2 (EJCB). SWEDEN. Norrbottens län: Högsböle; 65°13'N, 021°31'E; 8-1975; 1 ♂ (EJCB).

***Agrilus pecirkai* Obenberger, 1916**

**Examined specimens:** IRAN. Kerman: Joupar [= Jupar] env.; 30°03'53"N, 057°06'48"E; 6-2010; alt. 1900 m; 22 (EJCB) – Lalehzar [= Rūdkhāneh Lālehzār]; 29°40'N, 056°36'E; 5-1977; alt. 2800 m; 6 (NMPC) – Rayen env.; 29°34'40"N, 057°18'35"E; 5-2011; alt. 2680 m; 1 ♂ (EJCB). Mazandaran: 25 km SSE Sári; 36°12'36"N, 053°09'E; 4-2000; alt. 350 m; 2 (EJCB). TAJIKISTAN. Kondara; 38°46'24"N, 068°48'59"E; 7-1979; 1 (USNM). TURKEY. Zonguldak: 20 km E Karabük; 41°13'N, 032°45'50"E; 6-2002; 1 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus pekinensis pekinensis* Obenberger, 1924**

**Examined specimens:** CHINA. Beijing: Beijing, Sanbao; 39°56'09"N, 116°21'42"E; 7-1964; 1 (IZAS) – Beijing, Wofoushi; 39°56'09"N, 116°21'42"E; 7-1961; alt. 50 m; 1 (IZAS); 6-1962; alt. 100 m; 1 (IZAS) – Xingshan [= XiangShan]; 39°50'07"N, 115°43'18"E; 1961; alt. 570 m; 1 (IZAS). Hebei: Xiaowutaishan Mts.; 39°56'15"N, 115°18'30"E; 6-1964; alt. 1400-1500 m; 2 (IZAS). Heilongjiang: Harbin; 45°44'N, 126°36'E; 7-1945; 2 (IZAS). Jiangsu: Baohuashan; 32°07'52"N, 119°04'37"E; 2 (IZAS).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus pekinensis accolus* Jendek, 1995**

**Examined specimens:** CHINA. Yunnan: Lijiang, 1.3 km NE Lijiang; 26°31'58"N, 100°08'35"E; 7-2011; alt. 2552 m; 7 (USNM) – Lijiang, 16.4 km NE Lijiang; 27°01'01"N, 100°08'37"E; 7-2011; alt. 2734 m; 10 (USNM) – Tiger Leaping Gorge, 5.4 km from town; 27°06'27"N, 100°03'19"E; 7-2011; alt. 2085 m; 1 (USNM).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus peregrinus* Kiesenwetter, 1879**

**Examined specimens:** RUSSIA. Primorye: Anisimovka - 10 km env.; 43°10'12"N, 132°47'13"E; 6-2014; alt. 250-1200 m; 3 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus plasoni plasoni* Obenberger, 1917**

**Examined specimens:** CHINA. Fujian: Chunanxingcun vill.; 7-1960; alt. 740-1000 m; 5 (IZAS).

**Remarks:** For additional examined specimens see Jendek (2001) and Jendek & Grebennikov (2011).

***Agrilus plasoni dichrosomus* Obenberger, 1924**

**Examined specimens:** TAIWAN. Kenting; 21°57'N, 120°47'E; 5-2002; 1 (PMCL).

**Remarks:** For additional examined specimens see Jendek (2001) and Jendek & Grebennikov (2011).

***Agrilus pratensis* (Ratzeburg, 1837)**

**Examined specimens:** CHINA. Shaanxi: Shenmu; 38°51'59"N, 110°21'55"E; 7-1985; alt. 1300 m; 3 (IZAS). RUSSIA. Moskva: Moscow, Abramcevo; 56°13'22"N, 037°58'06"E; 5-1989; 1 (EJCB). SLOVAKIA. Dolné Vestenice; 48°42'N, 18°24'E; 6-2001; 1 (EJCB). UKRAINE. Dnipropetrovs'k: Kirovskoje; 48°31'N, 034°50'E; 6-1993; 1 (MSCI).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus proteus* Abeille de Perrin, 1893**

= *hassani* Théry, 1930 **syn. nov.**

**Type material:** *Agrilus proteus* was described from an unstated number of syntypes from “Algérie: Teniet-el-Had; Chanzy” and “Tunisie: El Feidja”. The two syntypes preserved in MNHN were examined. The lectotype designation is provided here: The lectotype of *A. proteus* Abeille de Perrin **by present designation**, ♂, MNHN: “Teniet-El-Haad Juin 1893 Dr. Chobaut [p] \ Type [p] [red ink] \ Muséum Paris Coll. Abeille de Perrin 1919 [p] \ A. Proteus Ab. [h]”. The second specimen is a paralectotype from the same locality. The type locality of *A. proteus* is fixed by the locality of the lectotype.

*Agrilus hassani* was described from an unstated number of syntypes from “Vallée de l'Qued Korifla, à 30 km de Rabat [in Subnote: Cette station, située sur la route de Rabat à Camp Marchand]”. The single syntype from MNHN was examined and the lectotype is designated here: The lectotype of *A. hassani* **by present designation**, ♂, MNHN: “Korifla [h] Maroc coll. Théry [p] \ 25.7.28 [h] \ Hassani Théry Type [h] \ Muséum Paris 1935 coll. A. Théry [p] [bluish label]”.

**Examined specimens:** ALGERIA. Alger: Tiaret; 35°22'35"N, 001°18'25"E; 1 ♀ (EJCB). Oran: Saint Charles; 35°42'N, 0°38'W; 1 ♀ (EJCB). Tissemsilt: Theniet El Had; 35°52'N, 002°01'30"E; 6-1893; 1 ♂ (EJCB). MOROCCO. Sous-Massa-Draa: Haut Atlas, Tizi n'Test; 30°52'14"N, 008°22'29"W; 6-1982; alt. 2000 m; Larval host: *Salix*; 2 ♀ (EJCB) – Haut Atlas, Tizi n'Test - Arhbar; 30°52'14"N, 008°22'29"W; 6-1982; alt. 2000 m; Larval host: *Salix*; 1 (EJCB). Tadla-Azilal: El Ksiba; 32°33'56"N, 006°01'46"W; 5-1983; Adult host: *Salix*; 1 ♀ (EJCB). SPAIN. Andalucía: Jérez del Marquesado; 37°09'20"N, 003°11'20"W; 6-1995; alt. 1500 m; 1 ♂, 2 ♀ (EJCB). Madrid: San Fernando de Henares; 40°25'32"N, 003°32'07"W; 6.-2002; 1 ♂ (EJCB).

**Host plants cited:** Larval host: *Salix* sp., Adult host: *Salix* sp.

**Distribution:** Africa: Algeria: Alger, Oran, Sidi Bel Abbes, Tissemsilt; Morocco: Rabat-Salé-Zemmour-Zaer, Sous-Massa-Draa, Tadla-Azilal; Tunisia: Jendouba. Europe: Spain: Andalucía, Madrid.

**Remarks:** *Agrilus proteus* differs from *A. viridis* (Linné, 1758) by having the elytra entirely white pubescent. There is no other distinctive character to distinguish both species and some specimens of *A. viridis* also bear adsutural white pubescence of various extent in apical third of elytra. The possible conspecificity between *A. proteus* and *A. viridis* is not excluded. See also Remarks under *A. oliveri*.

***Agrilus pseudocyanus* Kiesenwetter, 1857** Fig. 6A

**Examined specimens:** RUSSIA. Karachayevo-Cherkesiya: Teberda; 43°26'38"N, 41°44'45"E; 6-1961; 1 ♀ (ZIN) – Teberda, Sev. Kavkaz [= North Caucasus]; 43°26'38"N,

41°44'45"E; 7-1940; 2 ♂ (ZIN). Nizhegorod: Tonshaevo [= Tonshayevo]; 57°44'N, 047°06'E; 7-1952; 1 ♂ (ZIN). North Ossetia: Архъу [= Arkh'u, = Arkhon]; 42°49'N, 044°06'E; 7-1962; 1 ♀ (ZIN). Orenburg: 4 km yuzh. r/c Tashpla, s. Trudovoe; 6-2008; 1 (VNCO). Samara: Samara; 53°13'N, 050°10'E; 1 ♀ (ZIN). Sverdlovsk: Sagra, Sverdlovsk [= Yekaterinburg]; 57°01'N, 060°18'E; 7-1954; 1 ♀ (ZIN). Yamalo-Nenets: r. Nida [= Nyda], Obskaya guba, Tobol. g. [= Tobol'skaya guberniya]; 66°36'N, 072°55'E; 7-1921; 1 ♀ (ZIN). UKRAINE. Kiev City: Borodianka env., 1-4 km NW station Spartak; 50°38'42"N, 029°56'E; 7-2001; 1 (APKU).

**Distribution:** Asia: Russia: Kemerovo, Sverdlovsk, Yamalo-Nenets. Europe: Austria; Belarus; Poland; Russia: Karachayevo-Cherkesiya, Krasnodar, Moskva, Nizhegorod, North Ossetia, Orenburg, Samara; Switzerland; Ukraine: Kiev City, Zhytomyr.

**Remarks:** For additional examined specimens see Jendek (1995). *Agrilus pseudocyaneus* is the west vicariant of the closely related *A. voriseki* from which it differs by rounded elytral apices (subtruncate in *A. voriseki*), widely and deeply impressed pronotal sides with obliterate sculpture and by blue body color (greenish or brownish, rarely blue in *A. voriseki*). Ruicanescu (2013) cited *A. pseudocyaneus* from a single record from Romania. The examination of the specimen revealed its conspecificity with *A. viridis*.

#### *Agrilus pseudolubopetri* Jendek & Chamorro, 2012

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'30"N, 104°00'E; 6-2011; alt. 1340-1870 m; 13 (EJCB) 12 (NMPC). MYANMAR. Kachin: Sikaw; 23°49'48"N, 097°04'30"E; 6-2009; 1 ♀ (EJCB).

#### *Agrilus pseudosericans* Obenberger, 1936

**Examined specimens:** KYRGYZSTAN. Ysyk-Köl: Cholpon-Ata distr., Grigorevka, Kungei Alatau; 42°39'N, 077°28'12"E; 6-2006; alt. 1700 m; 1 (RKCK).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### *Agrilus quadrisignatus* Marseul, 1866

**Examined specimens:** RUSSIA. Primorye: Anisimovka - 10 km env.; 43°10'12"N, 132°47'13"E; 6-2014; alt. 25-1200 m; 4 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### *Agrilus radiolus* Kerremans, 1913

**Examined specimens:** TAIWAN. Pingtung, Tahanshan; 22°24'N, 120°45'E; 3-2013; Adult host: *Celtis formosana* Hayata; 20 (EJCB).

**Host plants cited:** Adult host: *Celtis formosana* Hayata.

#### *Agrilus reichardti* Obenberger, 1935

**Examined specimens:** CHINA. Sichuan: Yading Nat. Res.; 28°34'N, 100°11'E; 6-2006; alt. 4200-4600 m; 1 (NMPC). Yunnan: Yulongshan Mts., 12.4 km NW Daju; 27°11'58"N, 100°16'57"E; 7-2011; alt. 3250 m; 1 (USNM).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### *Agrilus relegatus alexeevi* Bellamy, 1998

**Examined specimens:** TURKEY. Gaziantep: 13.8 km SW of Nurdagi; 37°06'39"N, 036°38'30"E; 7-2005; alt. 1148 m; 1 ♂ (ZIN).

***Agrilus ribbei* Kiesenwetter, 1879**

**Examined specimens:** CHINA. Henan: Quanbaoshan, Xiong er Shan; 34°07'N, 111°25'E; 6-2010; alt. 1600-2000 m; 1 ♂, 1 ♀ (EJCB). Liaoning: Kuandian; 40°44'19"N, 124°44'43"E; 6-2009; Larval host: *Quercus*; 1 ♂ (EJCB). Shaanxi: Tongchuan City, Jiaoping; 34°54'N, 108°57'E; 6-1978; Adult host: *Quercus*; 1 (IZAS). JAPAN. Honshu: Tsukuba, Ibaraki; 36°06'30"N, 140°05'04"E; 6-2006; 23 (RKCK). RUSSIA. Amur: near Temey vill.; 8-1998; 1 ♂ (RKCK). Primorye: Anisimovka - 10 km env.; 43°10'12"N, 132°47'13"E; 6-2014; alt. 250-1200 m; 250 (EJCB) – S of Artem; 43°19'12"N, 132°10'48"E; 6-2014; alt. 50-250 m; 25 (EJCB) – Vasilievka, Nakhodka distr.; 6-1993; 2 (RKCK).

**Host plants cited:** Larval host: *Quercus* sp.; Adult host: *Quercus* sp.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus ribesi* Schaefer, 1946**

**Examined specimens:** CZECH REPUBLIC. Brno; 49°11'38"N, 016°37'11"E; 7-1978; 1 (VKCB) – Brno - Nebovidy; 49°08'27"N, 016°32'45"E; 6-1978; 1 (VKCB); 1979; Larval host: *Ribes nigrum* L.; 1 (VKCB) – Kojice; 50°02'39"E, 015°23'09"E; 6-2006; 1 (EJCB) – Moravia, Mikulovice; 48°57'58"N, 016°05'40"E; 7-1995; 1 (VKCB) 3 (EJCB) – Praha-Suchdol; 50°08'22"N, 014°22'40"E; 6-2004; 1 (EJCB) – Roudnice nad Labem; 50°25'17"N, 014°14'57"E; 7-1974; 1 (EJCB); 6-1976; 7 (VKCB). GERMANY. Mark Brandenburg, Umgebung Chorin; 52°54'52"N, 013°54'E; 1 ♀ (EJCB). POLAND. Tomna; 7-1986; 2 ♂ (EJCB). RUSSIA. Primorye: Spasskii rayon, okr. s. Tat'yanovka; 44°37'08"N, 133°03'46"E; 6-1970; Adult host: *Ribes*; 3 (EJCB). SLOVAKIA. Bratislava, Devín; 48°10'49"N, 016°59'17"E; 6-1979; 3 (EJCB) – Bratislava, Devínska Kobyla; 48°11'32"N, 016°58'57"E; 7-1979; 3 (VKCB) – Devín; 48°10'49"N, 016°59'17"E; 6-1980; 5 (EJCB) – Devínska Kobyla; 48°10'49"N, 016°59'17"E; 6-1982; 5 (EJCB) – Plešivec; 48°32'57"N, 020°24'05"E; 7-1980; 4 (EJCB).

**Host plants cited:** Larval host: *Ribes nigrum* L., Adult host: *Ribes* sp.

**Remarks:** *Agrilus ribesi* was recently recorded also from Canada and USA (Jendek *et al.* 2015). For additional examined specimens see Jendek & Grebennikov (2011) and Jendek *et al.* (2015).

***Agrilus rivalieri* Descarpentries & Villiers, 1963**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4,5-2010; alt. 1300-1900 m; 28 (USNM); 5-2011; alt. 1300-1900 m; 14 (USNM) – Ban Saleuy, Phou Pane Mt.; 20°12'30"N, 104°00'E; 6-2011; alt. 1340-1870 m; 29 (NMPC).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus roscidus* Kiesenwetter, 1857**

= *perparvus* Obenberger, 1918 **syn. nov.**

= *affectans* Obenberger, 1923

= *subroscidus* Obenberger, 1924

**Type material:** *Agrilus roscidus* was described from an unstated number of syntypes from multiple localities: “*in Südeuropa weit verbreitet, auf Creta und Cypern, in der Türkei, Dalmatien, Südfrankreich etc*”. The primary type fixation of this species is critical because of the existence of similar taxa unknown at the time of description. Theoretically, the syntype series may include several species. So far, only a single credible specimen from the original syntype series was located. The male syntype is preserved in ZSMC and its locality “Crete”



and characters agree with those cited in Kiesenwetter (1857). The most important one is the presence of long white hairs on the basal metatarsomere. This specimen corresponds with the current concept of *A. roscidus* and is here designated as a lectotype. The lectotype of *A. roscidus* Kerremans **by present designation**, ♂, ZSMC: “♂ [h] \ Kiesenwetter [p] \ Sammlung Cl. Müller [p] \ Creta [h] \ Type von [p] Agrilus roscidus Kiesw. [h] [red label] \ Holotypus [p] Agrilus roscidus Kiesenw. [h] Zool. Staatssammlg. München [p] [red label] \ Zool. Staatsslg. München [p] [blue label]”. Type locality of *A. roscidus* is locality of the lectotype which is Crete.

*Agrilus perparvus* was described from an unstated number of syntypes from “Kurus (Kaukasus)”. The examination of single syntype in NMPC revealed its conspecificity with *A. roscidus*. The lectotype of this taxon is designated here. The lectotype of *A. perparvus* Obenberger **by present designation** ♂, NMPC: “Ca: Kuruš [= Kurush, Dagestan][h] \ TYPUS [p] [red label] \ Agrilus perparvus m. Type [h] Det. Dr Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24935 [h] [orange label]”.

The specific name *affectans* Obenberger was put into synonymy of *A. roscidus* by Théry (1930) and *subroscidus* Obenberger by Curletti (1985). The lectotypes of both taxa are designated here.

The lectotype of *A. subroscidus* Obenberger **by present designation** ♂, NMPC: “Sicile [h] \ TYPUS [p] [red label] \ Agrilus subroscidus m. Type [h] Det. Dr Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24962 [h] [orange label]”. The single female paralectotype bears the same locality data as the lectotype.

The lectotype of *A. affectans* Obenberger **by present designation** ♂, NMPC: “Boutaut [h] \ TYPUS [p] [red label] \ Agrilus affectans m. Type [h] Det. Dr Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24964 [h] [orange label]”. The single female paralectotype bears the same locality data as the lectotype.

**Examined specimens:** ALGERIA. Alger: Algerie; 36°45'N, 003°02'24"E; Adult host: *Populus*; 3 (MHNG). GREECE. Ionia Nisia: Kérkira isl.-NE, Spartilas (~2 km W); 39°42'57"N, 019°49'18"E; 7-2015; alt. 360 m; Adult host: *Pyrus*; 15 (VKCB). SLOVAKIA. Dolné Vestenice; 48°42'N, 18°24'E; 7-2001; 2 (EJCB) – Kuzmice; 48°34'N, 21°34'E; 6-2001; 1 (ISCK) – Nový Salaš; 48°36'N, 21°29'E; 6-2002; 1 (ISCK). SLOVENIA. Petrinje, Podgorski Kras mts; 45°33'N, 13°53'E; 6-2001; 5 (JVCO).

**Host plants cited:** Adult host: *Populus* sp.; *Pyrus* sp.

### *Agrilus salicis* Frivaldszky, 1877 Fig. 3B

**Examined specimens:** AUSTRIA. Steiermark: Steiermark [= Styria]; 47°22'10"N, 015°02'15"E; 1 (NMPC). CZECH REPUBLIC. Čelákovice; 50°09'36"N, 014°45'13"E; 7, 8-1961; 1 (NMPC) – Káraný n. Labem; 50°10'32"N, 014°44'09"E; 1 (NMPC) – Moravia, Lanžhot; 48°43'28"N, 016°57'58"E; 6-1976; 1 (EJCB). HUNGARY. Fülöpháza; 46°53'29"N, 019°26'33"E; 8-1989; 2 (EJCB); 5-1990; 1 (EJCB). ITALY. Milano; 45°28'14"N, 009°10'47"E; 6-1987; 2 (MHNG); 6-1988; 2 (MHNG). ROMANIA. Route Faget-Dobra (Deva); 45°52'37"N, 022°22'44"E; 5-2002; 1 ♂ (EJCB). SLOVAKIA. Gbely; 48°43'03"N, 017°07'02"E; 6-1935; 1 (EJCB) – Latorica; 48°29'18"N, 021°57'11"E; 6-1960; 1 (EJCB) – Malacky; 48°26'12"N, 017°01'05"E; 6-1976; 1 (EJCB); 6-2004; Adult host: *Salix*; 4 (EJCB); 7-1985; 1 (EJCB) – Veľké Leváre env.; 48°30'17"N, 016°59'58"E; 7-1986; 5 (EJCB). TURKEY. Erzurum: Hwy 955, Aras Nehri, 39.6 km N of Hinis; 39°42'34"N, 041°47'31"E; 6-2006; alt. 1796 m; 3 (ZIN) – Hwy 955, Aras valley, 27.9 km SSW of Koprükoy; 39°43'56"N, 041°47'56"E; 7-2005; alt. 1798 m; 1 (ZIN). UKRAINE. Dnipropetrovs'k: Dneprovsko-Orelsky reserve, Kirovskoye env.; 48°30'N, 034°47'E; 6-1993; 1 (MSCI) –

Kirovskoye env., Orjel riv.; 48°30'N, 034°47'E; 6-1993; 2 (EJCB). Kherson: Hola Prystan'; 46°31'28"N, 032°31'12"E; 6-1994; 1 (EJCB).

**Host plants cited:** Adult host: *Salix* sp.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus sericans* Kiesenwetter, 1857**

**Examined specimens:** BULGARIA. Kuprija [= Primorsk], Stranža; 42°16'N, 027°45'E; 7-1934; 1 ♂ (NMPC). RUSSIA. Lipetsk: 72 km SE Lipetsk, 2 km SE Dobrinka; 52°10'N, 40°29'E; 6-2000; 1 (MCCD) – 80 km SE Lipetsk, Cyganskoe; 52°11'14"N, 040°29'35"E; 6-2004; 1 (MCCD).

***Agrilus sibiricus sibiricus* Obenberger, 1912**

**Examined specimens:** RUSSIA. Primorye: Anisimovka - 10 km env.; 43°10'12"N, 132°47'13"E; 6-2014; alt. 250-1200 m; 3 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus sikkimensis* Obenberger, 1928**

**Examined specimens:** CHINA. Guangxi: Longsheng County, Baiyan; 25°54'59"N, 109°59'59"E; 6-1963; alt. 1150 m; 1 (IZAS).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus sinensis sinensis* Thomson, 1879**

**Examined specimens:** CHINA. Hainan: Changjiang county, Mt. Heiling; 6-2008; alt. 1560 m; 1 (HHCR). Hubei: Dabieshan; 31°07'06"N, 115°48'57"E; 6-2008; alt. 640 m; 1 (CNC).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus sinensis splendidicollis* Fairmaire, 1889**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 5-2011; alt. 1300-1900 m; 2 (USNM) – Ban Saleuy, Phou Pane Mt.; 20°12'30"N, 104°00'E; 6-2011; alt. 1340-1870 m; 14 (NMPC). VIETNAM. Tuyen Quang; 21°48'05"N, 105°14'17"E; 9-2004; 1 (ISNB). Cao Bang: Phia Den; 22°34'01"N, 105°52'14"E; 8-2010; 1 (ISNB) – Phia-Oac Mts, Phia-Den env.; 22°34'01"N, 105°52'14"E; 5, 6-2011; alt. 800-1200 m; 3 (EJCB). Vinh Phuc: Melinh biodiversity station; 21°23'04"N, 105°42'44"E; 6-2011; alt. 80-200 m; 1 ♂ (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus sinuatus sinuatus* (Olivier, 1790)**

**Examined specimens:** GREECE. Ionia Nisia: Kérkira isl.-NE, Spartilas (~2 km W); 39°42'57"N, 019°49'18"E; 7-2015; alt. 360 m; Adult host: *Pyrus*; 1 ♂ (VKCB). UKRAINE. Crimea: Karadar, khr. Karadach; 6-2002; 1 (ZIN). Luhans'k: Anratsit distr., Diakovo vill.; 6-2005; 1 (EJCB).

**Host plants cited:** Adult host: *Pyrus* sp.

***Agrilus sinuatus sachalinensis* Obenberger, 1935**

**Examined specimens:** CHINA. Heilongjiang: Ning'an City, Jingbo Lake [= Jingpo Lake]; 43°51'28"N, 128°57'08"E; 8-2003; 1 (IZAS). JAPAN. Gihu: Shokawa [= Amagodani];

36°02'01"N, 137°57'23"E; 7-1948; 3 (NMPC).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus smaragdinus smaragdinus* Solsky, 1876**

**Examined specimens:** CHINA. Heilongjiang: Harbin; 45°44'N, 126°36'E; 6-1955; 2 (IZAS). RUSSIA. Primorye: Anisimovka - 10 km env.; 43°10'12"N, 132°47'13"E; 6-2014; alt. 250-1200 m; 8 (EJCB).

***Agrilus soudeki* Obenberger, 1926**

**Examined specimens:** CHINA. Heilongjiang: Harbin; 45°44'N, 126°36'E; 7-1955; 1 (IZAS) – Heilongjiang; 7-1940; 1 (IZAS).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus spectabilis* Kerremans, 1895**

**Examined specimens:** INDIA. Arunachal Pradesh: Dirang vicinity; 27°21'N, 092°13'E; 5-2006; alt. 1700-1900 m; 1 ♀ (EJCB).

**Remarks:** For additional examined specimens see Jendek (2013a).

***Agrilus subauratus subauratus* (Gebler, 1833)**

**Examined specimens:** CZECH REPUBLIC. Metylovická Hůrka, Beskydy Mts, Moravia; 49°36'N, 18°19'E; 3-1995; alt. 400 m; 1 (TSCO); 7-1997; 1 (TSCO) – Staré Hamry - V. Potok, Beskydy Mts, Moravia; 49°28'N, 18°27'E; 7-1994; 1 (TSCO). ESTONIA. Klooga; 59°19'N, 024°14'E; 8-2009; 1 (MNHE). KAZAKHSTAN. Qaraghandy oblysy: Karkalinsk; 49°24'36"N, 075°28'25"E; 7-1977; 1 (NMPC); 7-1978; 1 (NMPC). MONGOLIA. Hövsgöl: P. Seyne [= Sayan Mt.]; 50°41'18"N, 099°43'29"E; 1922; 1 (ISNB). RUSSIA. Irkutsk: Belyi Klyuch; 7-1911; 1 (ZIN) – Irkutsk; 5 (ZIN). Ivanovo: Rubskoje Lake, Teykovsky dist.; 56°49'N, 040°31'E; 7-1990; 1 (MSCI). Novgorod: R. Tigoda, Novgorodsk u.; 7-1916; 1 (ZIN). Tuva: Chadan; 6-1972; 1 (ZIN). Vladimir: Litvinovo vill., Koltschugino dist.; 56°18'N, 039°24'E; 6-2001; 1 (MSCI). Voronezh: 30 km S of Ostrogozhsk; 50°36'10"N, 039°05'59"E; 6-1980; 1 (MCCD). UKRAINE. Dnipropetrovs'k: Kirovskoje; 48°31'N, 034°50'E; 6-1993; 1 (MSCI).

***Agrilus subauratus amurensis* Obenberger, 1922**

**Examined specimens:** CHINA. Heilongjiang: Hengdaohezi; 44°48'N, 129°04'E; 7-1954; 2 (IZAS). RUSSIA. Irkutsk: Kychtak; 8-1927; 1 (USNM).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus subrobustus* Saunders, 1873**

**Examined specimens:** CHINA. Shaanxi: Xi'an City, Lintong district; 34°22'12"N, 108°54'E; 7-1985; 1 (IZAS). VIETNAM. Cao Bang: Phia-Oac Mts, Phia-Den env.; 22°34'01"N, 105°52'14"E; 4, 5-2012; alt. 900-1200 m; 1 ♀ (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus sulcicollis* Lacordaire, 1835** Fig. 4A

**Examined specimens:** CANADA. Ontario: Trenton; 44°09'22"N, 077°35'06"W; 2011; Larval host: *Quercus macrocarpa* Michx.; 30 (CNC) – Vaughan; 42°44'44"N, 079°15'22"W; 8-2011; 1 ♀ (EJCB). KAZAKHSTAN. Batys Qazaqstan oblysy: Yanvartsevo; 51°25'N,

052°15'E; 6-1950; 1 ♂ (ZIN). NORWAY. Aust-Agder: Arendal; 58°27'N, 008°46'E; 7-1950; 1 ♂ (EJCB) – Laget Aayb; 58°39'N, 009°03'E; 6-1978; 2 ♀ (EJCB). RUSSIA. Belgorod: Golubino; 50°48'N, 037°46'E; 6-1898; 1 ♂ (ZIN) – Novyi Oskol'; 50°45'N, 037°52'E; 6-1898; 1 ♂ (ZIN). Chelyabinsk: Chelyabinsk; 55°09'43"N, 061°25'35"E; 5-2001; 1 ♂ (EJCB). Leningrad: Tolmachevo, Luzhskiy rayon; 58°51'31"N, 029°53'45"E; 6-1938; 1 ♀ (ZIN). Lipetsk: 30 km E of Yelets, Morozova gora; 52°34'N, 39°04'E; 6-1978; 1 (MCCD); 5-1998; 1 (MCCD) – 30 km E of Yelets, Morozova gora; 52°34'N, 39°04'E; 6-2004; 1 (MCCD). Moskva: Serpukhov, s. Danki; 54°54'51"N, 037°34'01"E; 6-1984; 1 ♀ (EJCB). Saratov: Belye Klyuchi; 51°38'N, 044°05'E; 5-1950; 1 ♂ (ZIN) – Beesonovka env.; 52°10'N, 046°01'E; 6-2008; 1 ♂ (EJCB). Vladimir: Litvinovo env.; 56°18'N, 039°25'E; 6-1997; 1 ♂, 1 ♀ (EJCB); 6-2000; 1 ♂, 1 ♀ (EJCB). Voronezh: Voronezh; 51°42'N, 039°16'E; 7-1916; 1 ♂ (ZIN). SLOVENIA. Dvor, Zužemberk env.; 45°48'31"N, 014°58'07"E; 6-2001; 1 ♀ (EJCB) – Podgorski kras; 45°30'45"N, 014°05'29"E; 5-2003; Larval host: *Quercus*; 1 ♂ (EJCB). SPAIN. Aragón: Sierra de Albarracín, Puerto Orihuela [= Orihuela del Tremedal]; 40°33'05"N, 001°39'03"W; 6-2004; alt. 1650 m; 1 ♂ (EJCB). Castilla y León: Valle de Sanabria, Bouzas env.; 42°06'49"N, 006°43'25"W; 6-2005; 1 ♂ (EJCB). UKRAINE. Poltava: Poltava; 49°35'31"N, 034°33'04"E; 6-1922; 2 ♂ (NMPC).

**Host plants cited:** Larval host: *Quercus* sp., *Quercus macrocarpa* Michx.

**Distribution:** Africa: Algeria: Skikda. Americas: Canada: Ontario; United States: Michigan, New York. Asia: Kazakhstan: Almaty oblysy, Atyrau oblysy, Batys Qazaqstan oblysy; Russia: Chelyabinsk. Europe: Albania; Austria; Belarus; Belgium; Bosnia and Herzegovina; Croatia; Czech Republic; Denmark; Estonia; Finland: Etelä-Suomen lääni, Ita-Suomen lääni, Länsi-Suomen lääni; France; Germany; Hungary; Italy, Sardegna, Sicilia; Latvia; Liechtenstein; Lithuania; Luxembourg; Macedonia; Montenegro; Netherlands; Norway: Akershus, Aust-Agder, Telemark, Vestfold; Poland; Romania; Russia: Adygeya, Belgorod, Karelia, Krasnodar, Leningrad, Lipetsk, Mordovia, Moskva, Saratov, Tatarstan, Udmurt, Vladimir, Volgograd, Voronezh; Serbia; Slovakia; Slovenia; Spain: Aragón, Cantabria, Castilla y León, Cataluna, Madrid, País Vasco; Sweden: Blekinge län, Gävleborgs län, Hallands län, Jönköpings län, Kalmar län, Kronobergs län, Östergötlands län, Skane län, Södermanlands län, Uppsala län, Värmlands län, Västmanlands län, Västra Götalands län; Switzerland; Ukraine: Cherkasy, Crimea, Dnipropetrovs'k, Donets'k, Kharkiv, Kherson, Kiev, Kiev City, Kirovohrad, Luhans'k, L'viv, Odessa, Poltava, Rivne, Sumy, Ternopil', Transcarpathia, Vinnytsya, Volyn, Zhytomyr; United Kingdom: England.

**Remarks:** Due to the high misidentification rate among *A. sulcicollis* and similar species like e.g., *A. angustulus* and *A. buresi*, the distribution of *A. sulcicollis* and *A. buresi* (Fig. 4A) is critically revised and updated from that published by Jendek & Grebennikov (2009a). See also Remarks under *A. buresi*. The distributional records of *A. sulcicollis* without supporting data from Egypt (Kerremans 1908) and from southeastern Kazakhstan (Kostin 1973) were omitted. The sole confirmed record from North Africa is that from Philippeville [= Skikda], Algeria published by Théry (1930).

***Agrilus suvorovi* Obenberger, 1935** Fig. 6C

= *populneus* Schaefer, 1946 **syn. nov.**

**Type material.** *Agrilus suvorovi* was described from an unstated number of syntypes from “Ussuri”. The syntypes were found in BMNH (unknown number), NMPC (4 syntypes) and ZIN (2 syntypes). The primary type is fixed here. The lectotype of *Agrilus suvorovi* Obenberger **by present designation**, ♀, NMPC: “Ussuri Nizhne Mikhailovskaya 1899 G. Suvorov [leg.] [p] [in Russian] \ TYPUS [p] [red label] \ Mus. Nat. Prague Inv. [p] 24308 [h]

[orange label] \ *Agrilus Suvorovi* m. Type [h] Det. Dr. Obenberger [p]". The remaining syntypes are considered paralectotypes. The type locality "Ussuri Nizhne Mikhailovskaya" becomes the type locality of *A. suvorovi* (ICZN 1999, Art. 76.2).

**Examined specimens:** BULGARIA. Melnik; 41°31'26"N, 023°23'27"E; 6-1988; 1 (EJCB) – Vitoshka Mtn., Matnitsa riverside; 42°33'53"N, 023°11'24"E; 6-1998; alt. 1060 m; Adult host: *Populus tremula* L.; 1 ♀ (EJCB). CHINA. Heilongjiang: Yabuluoni [= Yabuli]; 44°55'55"N, 128°36'24"E; 7-1940; 3 (IZAS). CZECH REPUBLIC. Černovír, ex larvae; 49°36'53"N, 017°15'27"E; 1955; 1 (VKCB) – Grygov, ex larvae; 49°31'40"N, 017°18'25"E; 1952; 1 (VKCB) – Hodonín; 48°52'43"N, 017°06'51"E; 3-1979; Adult host: *Populus*; 5 (EJCB) – Kroměříž; 49°17'16"N, 017°24'26"E; 1963; 2 (VKCB) – Milovice nad Labem; 50°13'54"N, 014°50'40"E; 5-1978; 1 (EJCB) – Pouzdřany; 48°56'56"N, 016°38'14"E; 7-1980; 2 (EJCB) – Rakovník; 50°06'22"N, 013°43'51"E; 5-1986; 1 (VKCB) – Znojmo; 48°51'28"N, 016°02'28"E; 6-1980; 2 (EJCB). FRANCE. Latour-de-Carol; 42°28'04"N, 001°52'48"E; 6-2005; 1 (EJCB). GEORGIA. Tbilisi; 41°43'N, 044°47'E; 2 (EJCB). GREECE. Lago Limni Volvi, Apolonia; 40°38'09"N, 023°26'45"E; 6-1995; 1 ♂ (EJCB). IRAN. Mazandaran: 20 km S of Nowshahr, Weysser [= Veysar]; 36°27'41"N, 051°32'36"E; 6-1976; alt. 1400 m; 1 ♀ (EJCB). KAZAKHSTAN. Aqtöbe oblysy: Aktyubinsk [= Aktobe]; 50°17'22"N, 057°12'15"E; 6-1995; 1 ♀ (EJCB). Qaraghandy oblysy: Karagandy, Aktas; 49°47'16"N, 072°57'05"E; 7-1976; 2 (EJCB); 6-1979; 1 ♀ (EJCB). ROMANIA. Delta Dunarii - Letea Forest; 45°21'19"N, 029°31'09"E; 6-1993; Adult host: *Populus*; 5 (EJCB). RUSSIA. Kalmykiya: Godzhur; 47°00'59"N, 044°26'49"E; 6-2001; 4 (EJCB). Krasnodar: Krasnaya Polyana; 43°40'55"N, 040°12'18"E; 7-1969; 1 (EJCB) – Sochi - Agura; 43°25'40"N, 039°54'46"E; 6-1967; 2 (EJCB) – Sochi - Macesta [= Matsesta]; 43°32'42"N, 039°47'27"E; 6-1967; 6 (EJCB). Primorye: Arsen'yev env.; 44°10'N, 133°15'E; 6-1991; 3 (EJCB) – Artem; 43°22'N, 132°13'E; 7-1997; 1 (EJCB) – Sichote-Alin Mts., Sokol'chi; 43°18'N, 134°13'E; 7-1990; 1 (EJCB) – Yasnoye; 43°27'21"N, 134°09'40"E; 7-1989; 1 ♀ (EJCB). Rostov: Aleksandrovsk. rayon, Leniínskiy leskhoz; 46°45'39"N, 039°08'14"E; 5-1954; 1 ♀ (EJCB). Stavropol: Pyatigorsk; 44°02'50"N, 043°03'26"E; 1982; 4 (EJCB). SLOVAKIA. Bratislava - Čunovo; 48°02'13"N, 017°12'07"E; 6-2004; Adult host: *Populus*; 2 (EJCB) – Bratislava, Devínska Kobyla; 48°11'32"N, 016°58'57"E; 5-1979; 1 (EJCB) – Bratislava, Jur; 48°14'55"N, 017°12'40"E; 5-1990; 1 (EJCB) – Bratislava, Petržalka; 48°08'02"N, 017°08'01"E; 4-1989; Larval host: *Populus*; 5 (EJCB) – Hlohovec; 48°26'23"N, 017°47'43"E; 7-1980; 1 (EJCB); 5-1982; Larval host: *Populus*; 18 (EJCB) – Modra, ex larva; 48°19'N, 17°18'E; 4-1980; 6 (EJCB) – Streda nad Bodrogom; 48°22'46"N, 021°45'29"E; 6-1983; 1 (EJCB) – Svätý Jur env.; 48°14'31"N, 017°12'E; 7-2004; 1 (EJCB). SPAIN. Manilva; 36°22'29"N, 005°15'05"W; 6-1998; 2 (EJCB).

**Host plants cited:** Larval host: *Populus* sp., Adult host: *Populus* sp., *Populus tremula* L.

**Distribution:** Asia: China: Heilongjiang, Jilin, Nei Mongol, Shaanxi, Shanxi; Georgia; Iran: Azarbayjan-e-Sharqi, Esfahan, Mazandaran; Kazakhstan: Aqmola oblysy, Aqtöbe oblysy, Qaraghandy oblysy; Mongolia; North Korea; Russia: Amur, Buryat, Kemerovo, Khabarovsk, Primorye, Zabaykalye; South Korea; Turkey: Antalya, Bursa. Europe: Austria; Belarus; Bosnia and Herzegovina; Bulgaria; Croatia; Czech Republic; Finland; France, Corse; Germany; Greece; Hungary; Italy, Sardegna, Sicilia; Latvia; Liechtenstein; Macedonia; Montenegro; Norway; Poland; Romania; Russia: Krasnodar, Leningrad, Moskva, Orenburg, Penza, Rostov, Saratov, Stavropol, Volgograd; Serbia; Slovakia; Spain; Sweden; Switzerland; Turkey: Edirne; Ukraine: Donetsk, Kharkiv, Kiev, Luhans'k, Rivne, Zhytomyr.

**Remarks:** Curletti (2013) resurrected the name *populneus* for the subspecies of *Agrilus suvorovi* for "at least for the Mediterranean populations of southern Europe ("almeno per

quanto riguarda le popolazioni mediterranee del sud Europa)”. His opinion follows from the fact that the type locality of *A. suvorovi* is in Russian Far East while that of *A. suvorovi populneus* is in France. Such an extensive range with diverse climatic conditions appears to him dubious for a single species which is surprising because common Palearctic *Agrilus* species like *A. viridis* (Fig. 6B), *A. cuprescens* (Fig. 5A), *A. pratensis*, *A. betuleti*, *A. cyanescens* (Fig. 5B) feeding on widely distributed pioneer plants (*Salix*, *Rubus*, *Populus*, *Betula* or *Lonicera*) have similar or even more extensive range and some were introduced to North America. Curletti (2013) refers to the characters cited by “Schaefer (1946) [Note: should be 1961]” finding them distinctive for resurrecting the subspecies *populneus*. Both Schaefer and Curletti had available just a few specimens of *A. suvorovi*. Schaefer (1961) had a few specimens provided by Obenberger and Curletti (2013) cited two specimens in his work. Jendek & Grebennikov (2011) published on extensive material of *A. suvorovi* covering the whole distributional range from Europe to Russian Far East. The additional examined specimens and updated distribution range is provided herein. The studied specimens of *A. suvorovi* are highly variable in body size, color and morphology. Characters cited by Schaefer (1961) do not justify a separation of European subspecies.

*Agrilus suvorovi* belongs to *A. viridis* species-group. This common species was known for a very long time from Europe as “*A. viridis* living on *Populus*”. The species concept of this taxon should be demonstrated by molecular analysis. The opinion that *A. suvorovi* is a *Populus* form of *A. viridis* is supported by the fact that an extremely polyphagous *A. viridis* is unknown from *Populus* despite living on related *Salix*. According to Jendek & Poláková (2014), all past references of *A. viridis* from *Populus* are misidentifications of *A. suvorovi*.

#### ***Agrilus taiwanensis* Kurosawa, 1954**

**Examined specimens:** TAIWAN. Chienshih; 24°42'N, 121°11'E; 6-2002; 1 (PMCL).

#### ***Agrilus tempestivus* Lewis, 1893**

**Examined specimens:** RUSSIA. Primorye: Anisimovka, 10 km env.; 43°10'12"N, 132°47'13"E; 6-2014; alt. 250-1200 m; 2 (EJCB) – S of Artem; 43°19'12"N, 132°10'48"E; 6-2014; alt. 50-250 m; 1 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### ***Agrilus tenuissimus* Abeille de Perrin, 1891**

**Examined specimens:** JORDAN. Zubia SW Irbid; 32°29'14"N, 035°47'41"E; 5-2008; 1 ♂, 1 ♀ (NMPC).

#### ***Agrilus terracotta* Jendek, 2011**

**Examined specimens:** VIETNAM. Lang Son: Thanh Moi; 21°38'N, 106°33'E; 1 (MNHN).

#### ***Agrilus tokyoensis* Kurosawa, 1985**

**Examined specimens:** LAOS. Houaphan: Ban Saleuy, Phou Pane Mt.; 20°12'N, 104°01'E; 4,5-2010; alt. 1300-1900 m; 77 (USNM); 5-2011; 3 (EJCB) 13 (USNM).

#### ***Agrilus transversesulcatus transversesulcatus* Reitter, 1890** Fig. 4B

= *juxtasuturalis* Abeille de Perrin, 1897 **syn. nov.**

= *grusinus* Obenberger, 1917 **syn. nov.**

= *suturisignatus* Obenberger, 1924 **syn. nov.**

= *tifliscus* Obenberger, 1936 **syn. nov.**

**Type material.** *Agrilus transversesulcatus* Reitter was described from two syntypes from “Kaukasus: Tiflis [Georgia]”. The lectotype is designated here. The lectotype of *A. transversesulcatus* Reitter **by present designation**, ♂, MNHN: “Caucasus Tiflis Leder (Reitter) [p] \ Type [p] [red ink] \ A. transversesulcatus m. 1890 [h] \ transversesulcatus Reitt. [h] \ Muséum Paris 1919 Coll. Abeille de Perrin [p]”. The single ♀ specimen from the same locality is labeled as paralectotype.

*Agrilus jxtasuturalis* Abeille de Perrin, 1897 was described from an unstated number of syntypes from “Caucase: vallé de l'Araxe [Armenia]”. The lectotype was designated by Jendek (2012).

*Agrilus grusinus* Obenberger was described from two syntypes from “Ostkaukasus: Kasum-kjant [= ?Kasumkent, Dagestan, Russia]”. The lectotype is designated here. The lectotype of *A. grusinus* **by present designation**, ♂, NMPC: “Kassum-Kjant Ca. or. Christoph. [h] \ TYPUS [p] [red label] \ Agrilus grusinus m. Type [h] Det. Dr Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 25004 [h] [orange label]”. The single specimen from the same locality preserved in DEI is labeled as paralectotype.

*Agrilus suturisignatus* Obenberger was described from an unstated number of syntypes from “Russia mer.: Sarepta; Kasumkent”. The lectotype is designated here. The lectotype of *A. suturisignatus* **by present designation**, ♂, NMPC: “Kasum Kent [h] \ TYPUS [p] [red label] \ Agrilus suturisignatus m. Type [h] Det. Dr Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 25018 [h] [orange label]”. Two specimens from “Sarepta” preserved in NMPC are labeled as paralectotypes.

*Agrilus tifliscus* Obenberger was described from an unstated number of syntypes from “Transcancasia [sic!]: Tiflis: Lacus Lisi [Georgia]”. The lectotype is designated here. The lectotype of *A. tifliscus* **by present designation**, ♂, NMPC: “Lac Lisi prov. Tiflis [p] 9.VI.1[p]2[h] \ TYPUS [p] [red label] \ Agrilus tifliscus m. Type [h] Det. Dr Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 25020 [h] [orange label]”.

**Examined specimens:** AZERBAIJAN. 60 km S of Baku, Aljat [= Alat]; 39°57'51"N, 049°24'39"E; 6-1983; 1 ♂, 1 ♀ (EJCB) – Alazanin [= Araz] and Kura [= Mtkvari] rivers; 40°00'47"N, 048°25'42"E; 6-1931; 1 ♂ (EJCB) – Gobustan [= Qobustan]; 40°32'08"N, 048°54'46"E; 7-2001; 1 ♂ (EJCB). KAZAKHSTAN. Batys Qazaqstan oblysy: Dzhanybek [= Djanybek]; 49°25'N, 046°51'E; 6-1965; Adult host: *Salsola laricina* Pall.; 1 ♂ (ZIN). RUSSIA. Volgograd: Elton lake; 49°07'40"N, 046°47'28"E; 6-1968; Adult host: *Atriplex*; 1 ♂ (EJCB). TURKEY. Kars: 25 km ESE Karakurt, Arax valley; 40°03'42"N, 042°51'10"E; 6-2001; 1 ♀ (ZIN) – Arax valley, 20 km NW of Kagizman; 40°16'22"N, 042°57'18"E; 6-1997; 1 ♀ (ZIN). UKRAINE. Kherson: Syvash; 45°59'30"N, 034°30'E; 7-1985; 1 ♂, 1 ♀ (EJCB).

**Host plants cited:** Adult host: *Atriplex* sp., *Salsola laricina* Pall.

**Remarks:** *Agrilus transversesulcatus* is very similar to *A. croceivestis* Marseul, 1866 from North Africa. Both species inhabit deserts and semideserts and develop in Amaranthaceae. The following plant genera are recorded as hosts: *Salsola*, *Suaeda*, *Climacoptera*, *Haloxylon* and *Halostachys*. The record for *Acacia* cited by Halperin & Argaman (2000) under the name *A. niveosignatus* is likely a misidentification. For more details on host plants see Jendek & Poláková (2014).

*Agrilus transversesulcatus* is highly variable in size (4.3-7.0 mm); color (from bronze to greenish); extent of pubescence (from discreet and not combined with tomentum to prominent and combined with striking tomentum) and morphology (shape of pronotum, pronotal impressions, development of prehumeral from tubercular to carinal). Type

examination found many nominal taxa (see below) being conspecific with *Agrilus transversesulcatus* therefore their specific names were put into synonymy. Due to divergent trends in development of prehumeral and body pubescence, two subspecies are proposed. *Agrilus transversesulcatus transversesulcatus* has the pubescence less obvious and tomentum on dorsal side is restricted to the lateral pronotal impressions, humeral part of elytra and laterosternites (Jendek 2001).

The elytral perisutural stripes are discreet and formed by denser pubescence. The prehumeral is tubercular rarely carinal. *Agrilus transversesulcatus validiusculus* has denser pubescence and prominent tomentum on ventral side. The elytral perisutural stripes are obvious and formed by tomentum. The prehumeral is carinal.

**Distribution:** Asia: Armenia; Azerbaijan; Georgia; Kazakhstan: Batys Qazaqstan oblysy; Turkey: Kars. Europe: Russia: Astrakhan, Dagestan, Volgograd, Voronezh; Ukraine: Kherson

***Agrilus transversesulcatus validiusculus* Semenov, 1891 stat. nov.** Fig. 4B

= *niveosignatus* Obenberger, 1914 **syn. nov.**

= *ieiunulus* Obenberger, 1936 **syn. nov.**

**Type material.** *Agrilus validiusculus* Semenov, 1891 was described from two syntypes from “Prov. Transcaspica: montes Küren-dagh prope Kasandshik [Turkmenistan]”. The lectotype is designated here. The lectotype of *A. validiusculus* **by present designation**, ♂, ZIN: “Kjurian-bar [unlocated], 27-28.IV.89, Semenov”. The locality label of lectotype differs from the originally published locality. The second type specimen was not found.

*Agrilus niveosignatus* Obenberger, 1914 was described from an unstated number of syntypes from “Transbaikalien: Oase Repetek [Turkmenistan]”. The lectotype is designated here. The lectotype of *A. niveosignatus* **by present designation**, ♂, NMPC: “Repetek Tr. [h] \ TYPUS [p] [red label] \ *Agrilus niveosignatus* m. (K. Dan. i. 1.) Type [h] Det. Dr Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24354 [h] [orange label]”.

*Agrilus ieiunulus* Obenberger, 1936 was described from an unstated number of syntypes from “Asia centralis: Golodnaja step [Uzbekistan]”. The lectotype is designated here. The lectotype of *A. ieiunulus* **by present designation**, ♀, NMPC: “Golodnaja Step. As. c. [h] \ TYPUS [p] [red label] \ *Agrilus ieiunus* [sic!] m. Type [h] Det. Dr Obenberger [p] \ Mus. Nat. Pragae Inv. [p] 24351 [h] [orange label]”.

**Examined specimens:** KAZAKHSTAN. Almaty oblysy: Boguty mountains; 43°34'N, 079°00'E; 7-1985; alt. 1000-1200 m; 1 ♂ (EJCB) – Kolshengel [= Kanshengel] env., Beskol; 44°19'13"N, 075°32'52"E; 6-2002; alt. 500 m; 3 (EJCB). TURKMENISTAN. Dasoguz: E part of depression Akchakaya; 41°03'N, 058°15'E; 6-1987; alt. -70- m; 2 (ZIN). Lebap: Repetek Reserve; 38°40'19"N, 063°15'40"E; 4-1990; 1 (EJCB). UZBEKISTAN. Buxoro: Kagan [= Kogon]; 39°43'28"N, 064°32'33"E; 7-1994; 1 ♂ (EJCB). Qoraqalpog'iston Respublikasi: Karateren lake [= Qoratereng Ko'l]; 43°14'49"N, 060°21'30"E; 6-1987; 2 ♂ (EJCB).

**Distribution:** Asia: Iran: Sistan va Baluchestan; Kazakhstan: Almaty oblysy, Ongtüstik Qazaqstan oblysy; Tajikistan; Turkmenistan: Balkan, Dasoguz, Lebap; Uzbekistan: Buxoro, Jizzax, Qoraqalpog'iston Respublikasi.

**Remarks:** See Remarks under *A. transversesulcatus transversesulcatus*.

***Agrilus trinotatus* Saunders, 1873**

**Examined specimens:** CHINA. Zhejiang: Gutian Shan, broadleaf mixed forest; 29°14'42"N,



118°07'59"E; 5-2010; alt. 446-725 m; 2 (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus tschitscherini* Semenov, 1895**

**Examined specimens:** KAZAKHSTAN. Ongtüstik Qazaqstan oblysy: C Aris [Arys river], Aulie Ata [= Taraz]; 42°33'50"N, 068°38'44"E; 1935; 1 ♀ (EJCB). Shyghys Qazaqstan oblysy: Tarbagatai Range, 45 km NEE of Tarbagatai pass; 49°08'30"N, 086°02'18"E; 7-1983; 1 ♂ (EJCB). KYRGYZSTAN. Ysyk-Köl: Tien-Shan, Enilcheck; 42°00'34"N, 079°07'12"E; 7-1991; alt. 3500 m; 1 ♂ (EJCB).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus turcicus* Marseul, 1866**

**Examined specimens:** TURKEY. Gaziantep: Nurdegi Gecidi; 37°07'10"N, 36°38'30"E; 6-2000; alt. 1000 m; 1 ♂ (MNCA).

***Agrilus unguiculosus* Obenberger, 1936**

**Examined specimens:** CHINA. Nei Mongol: Ordos; 39°37'10"N, 109°47'10"E; 7-2014; Larval host: *Caragana korshinskii* Kom.; 1 ♂ (EJCB).

**Host plants cited:** Larval host: *Caragana korshinskii* Kom.

***Agrilus ussuricola* Obenberger, 1924**

**Examined specimens:** CHINA. Liaoning: Kuandian; 40°44'19"N, 124°44'43"E; 6-2009; Larval host: *Quercus*; 1 ♀ (EJCB).

**Host plants cited:** Larval host: *Quercus* sp.

***Agrilus vaginalis* Abeille de Perrin, 1897**

= *philippovi* Alexeev, 1965 **syn. nov.**

**Type material.** The lectotype of *A. vaginalis* was fixed by Jendek (2012) and the single syntype of *Agrilus vaginalis philippovi* labeled as "holotype" from the Alexeev collection was studied during the visit of Alexeev in 1993.

**Examined specimens:** ARMENIA. Ararat: Vedi, Khosrov; 39°54'47"N, 044°43'13"E; 7-1989; 1 (EJCB). Syunik': Meghri; 38°54'05"N, 046°14'44"E; 6-1998; 1 ♀ (EJCB). AZERBAIJAN. Naxçıvan: Aşağı Buzqov, 35 km N of Nakhichevan, Daralagyaz Mt. Range; 39°30'39"N, 045°24'02"E; 6-1985; 1 ♂ (EJCB). BULGARIA. Blagoevgrad: Chotovo [= Hotovo]; 41°29'57"N, 023°20'12"E; 6-1989; 1 ♀ (EJCB) – Sandanski, Bistrica brook; 41°33'N, 23°17'E; 6-1982; 1 ♂, 1 ♀ (EJCB). IRAN. Hamadan: 12 km N Razan, Mahnyan [= Mahnian]; 35°30'14"N, 049°03'47"E; 6-1977; alt. 2100 m; 1 ♀ (EJCB). KAZAKHSTAN. Zhambyl oblysy: 47 km E of Shyganak; 45°03'08"N, 074°38'16"E; 5-1983; 1 (EJCB). TURKEY. Erzurum: Loc. 5, Sutkans, 8 km S of Oltu; 40°29'04"N, 041°57'44"E; 6-1997; 1 (ZIN). Iğdır: 20 km S Iğdır Suveren env., Gr. Ararat; 6-2001; 1 (ZIN). TURKMENISTAN. Lebap: Repetek; 38°33'49"N, 063°10'24"E; 2 (NMPC). UZBEKISTAN. Buxoro: Bukhara-Karaulbazar [= Qorovulbozor]; 39°37'50"N, 064°39'27"E; 5-1992; 1 ♀ (EJCB).

**Distribution:** Asia: Armenia: Ararat, Syunik'; Azerbaijan: Naxçıvan; Iran: Hamadan; Kazakhstan: Almaty oblysy, Atyrau oblysy, Zhambyl oblysy; Turkey: Erzurum, Iğdır, Nevşehir; Turkmenistan: Ahal, Balkan, Dasoguz, Lebap; Uzbekistan: Buxoro. Europe: Bulgaria: Blagoevgrad; Macedonia; Russia: Astrakhan.

**Remarks:** *Agrilus vaginalis philippovi* was proposed from an unstated number of syntypes from Astrakhan [Russia] and Gur'evsk region [Kazakhstan, Atyrau oblisy] in the key of *Agrilus* of European part of Soviet Union. No diagnostic characters distinguishing it from the nominotypical subspecies are mentioned in the key. The examined type and non-type material revealed no significant differences justifying subspecies splitting of *A. vaginalis*. Tajikistan country record cited by Volkovitsh & Alexeev (1992) without supporting data needs verification.

#### ***Agrilus viduus* Kerremans, 1914**

**Examined specimens:** CHINA. Xinjiang. Yili; 43°55'00"N, 081°19'22"E; 8-2002; Larval host: *Ulmus*; 3 ♂ (EJCB). Zhejiang: Pangshan, on wild apricot; 28°12'13"N, 119°47'57"E; 11-1907; Adult host: *Prunus*; 4 ♂, 2 ♀ (EJCB).

**Host plants cited:** Larval host: *Ulmus* sp. Adult host: *Prunus* sp.

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

#### ***Agrilus viridicaerulans viridicaerulans* Marseul, 1868**

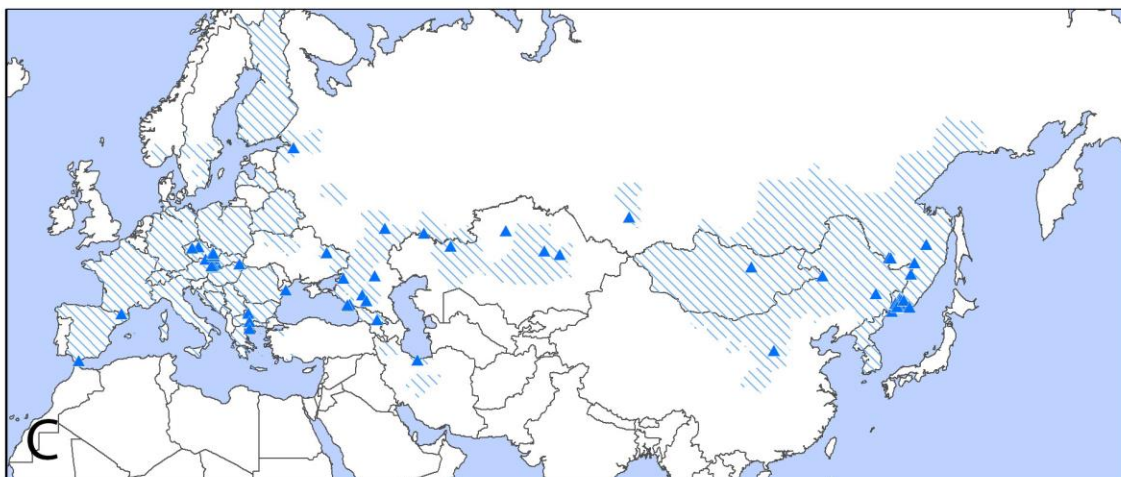
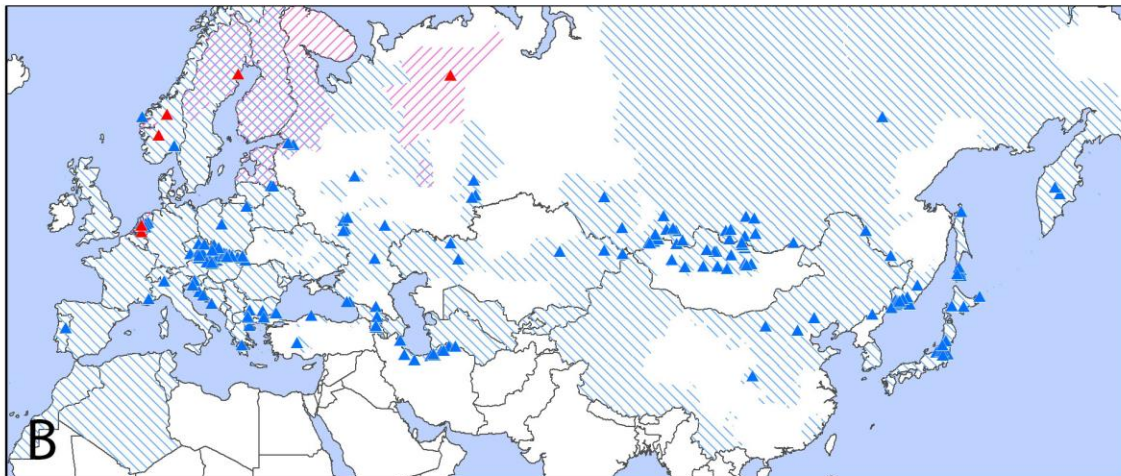
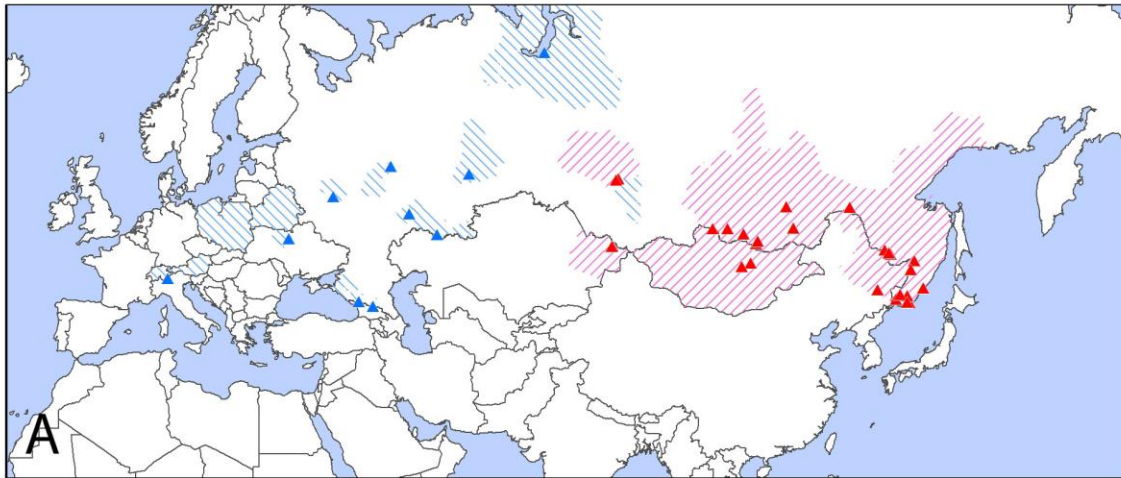
**Examined specimens:** ISRAEL. 15 km E Haifa, Beit Oren; 32°43'50"N, 035°00'23"E; 5-2005; 1 ♂, 1 ♀ (EJCB). JORDAN. 10 km N of Ajlun; 32°24'05"N, 035°41'19"E; 5-2007; alt. 310 m; 1 ♂, ♀ (EJCB) – Ajlun env.; 32°19'53"N, 035°43'07"E; 6-2007; alt. 850 m; 7 (EJCB) – ca 10 km N of Ajlun; 32°24'05"N, 035°41'19"E; 5-2007; alt. 310 m; 4 (EJCB) – ca 20km N of Amman; 32°12'54"N, 035°53'06"E; 5-2007; alt. 250 m; 1 ♂, 1 ♀ (EJCB) – NW of Ajlun; 32°19'53"N, 035°43'07"E; 5-2007; alt. 850 m; 1 ♀ (EJCB). LEBANON. Env. de Chtaura; 33°48'54"N, 035°51'10"E; 5-1936; 1 (EJCB) – Beirut; 33°53'08"N, 035°30'18"E; 1 ♂, 1 ♀ (EJCB) – Chtaura; 33°48'54"N, 035°51'10"E; 5-1936; 1 (EJCB) – Wadi Qadisha [= Kadisha Valley]; 34°17'N, 035°57'05"E; 6-2004; 1 ♀ (EJCB). SYRIA. Dar'a: Wadi al Harir; 32°51'17"N, 036°18'26"E; 5-1995; 3 ♂, 1 ♀ (EJCB). Rif Dimashq; 30 km W Damascus; 33°25'04"N, 035°59'18"E; 6-2000; 1 ♂ (EJCB).

#### ***Agrilus viridis* (Linné, 1758) Fig. 6B**

= *rosei* Niehuis & Bernhard, 2005 **syn. nov.**

**Type material:** *Agrilus rosei* was described from 5 specimens from France. The ♂ holotype from MNCA labeled: “Le Ste.Baume - F. Massif de la Ste. Baume 26.06.1995 leg.: Bernhard [p] \ *Agrilus rosei* n.sp. HOLOTYPUS male sign Niehuis & Bernhard det 2005 [p][red label]” was examined.

**Examined specimens:** ARMENIA. Nurnus; 40°21'25"N, 044°36'19"E; 6-1996; 1 (MKCY) – Razdan [= Hrazdan] -Artavaz; 40°35'42"N, 044°39'37"E; 7-1996; 1 ♀ (EJCB). AUSTRIA. Wien env., Weidlingau; 48°12'31"N, 016°13'09"E; 1 ♂ (EJCB). AZERBAIJAN. Lenkoran, Dash Datuk; 38°43'16"N, 048°44'24"E; 5, 6-1986; 3 (EJCB). BULGARIA. Arapia; 42°10'48"N, 027°50'31"E; 7-1988; 1 (VKCB) – East Rhodopi Mts., near Bryagovets vilage, Madjarovo town vic., Arda river, ex larvae; 41°39'02"N, 025°47'52"E; 2003; Larval host: *Alnus*; 1 (EJCB) – Javorov [= Peyu Yavorov]; 41°45'N, 023°09'15"E; 5-1984; 9 (EJCB); Adult host: *Ulmus*; 16 (EJCB) – Kiten env.; 42°14'04"N, 027°45'56"E; 6, 7-1987; 2 (EJCB) – Lozenec; 42°12'N, 27°48'E; 7-1987; 1 (EJCB) – Stara Zagora; 42°27'07"N, 025°37'44"E; 6-1987; 1 (EJCB) – Vitosha Mtn., Zheleznitsa, riverside; 42°32'21"N, 023°21'28"E; 8, 9-1998; alt. 1210 m; Adult host: *Fagus sylvatica* L.; 1 ♀ (EJCB). Blagoevgrad: Sandanski, Bistrica brook; 41°33'N, 23°17'E; 6-1982; 1 (EJCB). CHINA. Hebei: pass Chengde-Chifeng; 41°36'N, 118°12'E; 6-2001; 2 ♂ (EJCB). Jilin: Changbaishan Ziranbaohuqu; 42°00'N, 128°00'E; 8-1979; 1 ♀ (EJCB). Xinjiang: Fuwen



**Figures 6A–6C.** Distribution of *Agrilus*. Triangles indicate locality of examined specimens, hatching indicates compiled range or by distribution. **6A**, *A. pseudocyanus* Kiesenwetter, 1857 blue color, *A. voriseki* Jendek, 1995 red color; **6B**, *A. viridis* (Linné, 1758) blue color *A. paludicola* Krogerus, 1922 red color; **6C**, *A. suvorovi* Obenberger, 1935.

County; 7-1960; alt. 1200 m; 1 (IZAS). CROATIA. Biokovo N. P.; 43°20'08"N, 017°03'20"E; 7-2004; alt. 1600 m; 1 (EJCB) – Raduč; 44°23'23"N, 015°35'49"E; 7-2004; alt. 600 m; 3 (EJCB) – Velebit Mts., Mt. Zavižan; 44°48'19"N, 014°58'15"E; 7-1994; 1 (EJCB). CZECH REPUBLIC. Beskydy mts., Lysá Hora Mt.; 49°32'45"N, 018°26'54"E; 6-1996; 1 (EJCB) – Černovice u Tábora; 49°22'26"N, 014°57'55"E; 4-1989; 1 (EJCB) – Chlum u Třeboně; 48°57'44"N, 014°55'43"E; 8-2008; 1 (EJCB) – Dolní Skrýchov; 49°09'56"N, 015°00'57"E; 6-1984; 1 (EJCB) – Hradec Králové; 50°12'46"N, 015°49'29"E; 8-2007; 1 (EJCB) – Milovice; 50°13'40"N, 014°53'08"E; 5-1949; 1 (EJCB) – Ostrava-Dubí; 49°49'N, 18°16'E; 8-1997; 1 (EJCB) – Pavlovské Kopce hills, NPR Děvín; 48°52'10"N, 016°38'58"E; 6-2004; Adult host: *Fraxinus excelsior* L.; 4 (EJCB) – Podmolí; 48°50'57"N, 015°56'31"E; 7-1994; 1 (EJCB) – Roudná; 49°18'13"N, 014°43'05"E; 6-1986; 1 (EJCB) – S Moravia, dist. Břeclav, Děvín-Soutěska, ex larva; 48°52'N, 016°39'E; 1976; alt. 250 m; 15 (VKCB) – Slatinice; 49°33'48"N, 017°06'E; 6-1994; 1 (VKCB) – Šumava, Dobra Voda; 49°09'23"N, 013°26'09"E; 7-1973; Larval host: *Alnus glutinosa* (L.) Gaertn.; 1 (EJCB) – Vrbno pod Pradědem, Jeseníky Mts.; 50°07'31"N, 017°22'47"E; 5-1979; Adult host: *Fagus sylvatica* L.; 1 (EJCB) – Žatec; 49°12'19"N, 015°30'24"E; 7-1951; 1 (EJCB) – Zdešov; 49°13'42"N, 015°07'34"E; 6-1984; 1 (EJCB). FRANCE. Saint-André; 43°58'08"N, 006°30'22"E; 7-1974; 3 (EJCB). GEORGIA. Sparpha Mt, Abkhazia; 7-2001; 1 (FACF) – Tbilisi; 41°44'08"N, 044°46'34"E; Adult host: *Ulmus*; 1 (EJCB) – Tbilisi; 41°44'08"N, 044°46'34"E; 6-1986; Larval host: *Ulmus*; 8 (EJCB). GREECE. Lago Limni Volvi, Apolonia; 40°38'09"N, 023°26'45"E; 6-1995; 1 ♀ (EJCB) – railw. st. Kerpini, 3.5 km NE of Kalavrita, S of Diakofto; 38°04'55"N, 022°06'24"E; 6-1995; 1 ♂ (EJCB). IRAN. Gilan: Gilan mer. or., Rudbar env.; 36°49'22"N, 049°25'36"E; 6-2001; 1 (EJCB). Golestan: 10 km westlich Gorgan; 36°50'06"N, 054°17'45"E; 5-1977; alt. 300 m; 1 ♀ (EJCB) – 50-70 km E of Minudasht, Golestan Forest; 37°13'53"N, 055°37'32"E; 5-1974; alt. 450-700 m; 5 (EJCB); Larval host: *Zelkova*; 1 (EJCB); Larval host: *Carpinus*; 5 (EJCB) – Nahár Hórán, 10 km S Gorgan; 36°44'N, 054°29'E; 6-2000; 3 (EJCB). Khorasan-e Shemali: 10 km W Raz, Koppe Dag; 37°54'N, 056°55'E; 6-2014; alt. 1200 m; 1 ♀ (EJCB) – 55 km NE of Minudasht, Golestan Forest; 37°20'N, 056°00'E; 6-2000; alt. 840 m; 1 ♂ (EJCB) – 75 km E Minudasht, near Dasht; 37°19'44"N, 056°02'43"E; 5-2010; alt. 1060 m; Larval host: *Acer*; 11 (EJCB). Mazandaran: 12 km NW Kiyāsar; 36°03'36"N, 051°08'16"E; 6-2000; 5 (EJCB) – 20 km SE di Bandar-e Gaz; 36°37'34"N, 053°49'19"E; 6-2003; alt. 1600 m; 1 (DGCC). ITALY. Cima; 46°03'25"N, 009°04'34"E; 8-1990; alt. 2000 m; 1 (EJCB). KAZAKHSTAN. Qaraghandy oblysy: Karkalinsk; 49°24'36"N, 075°28'25"E; 7-1977; 1 (EJCB). LATVIA. Kraslava distr. - C, 10 km SWW Dagda; 56°03'16"N, 027°23'21"E; 6-2002; 3 (EJCB) – Preili distr. - SE, 2 km SWW Aglona; 56°07'06"N, 026°59'28"E; 6-2002; 4 (EJCB). MACEDONIA. Mogila: Tarnain-Gol, 65 km NE of Kharkhorin; 6-1972; 1 ♀ (EJCB). MONGOLIA. Ara-Khang. aim., r. Orkhon bliz Talshra, pojma; 8-1978; 1 ♂ (EJCB) – Urga [= Ulaanbaatar], Tuul river; 47°53'27"N, 106°54'35"E; 1 ♀ (EJCB). NETHERLANDS. Arnhem; 51°59'49"N, 005°53'53"E; 1 ♀ (EJCB) – Epe; 52°21'04"N, 005°58'56"E; 8-1920; 1 ♀ (EJCB) – Naarden; 52°17'57"N, 005°09'48"E; 1 ♀ (EJCB) – Ommen; 52°31'04"N, 006°25'22"E; 6-1918; 1 ♀ (EJCB). NORWAY. Łs; 59°39'56"N, 010°47'11"E; 5-1974; 1 ♂, 1 ♀ (EJCB) – Selje; 62°02'33"N, 005°21'01"E; 6-1966; 1 ♂ (EJCB). POLAND. Suwalki; 54°06'22"N, 022°55'52"E; 6-1918; 2 (EJCB). PORTUGAL. Sierra de Estrela, Covilha; 40°16'47"N, 007°30'20"W; 6-1995; 2 (EJCB). RUSSIA. Altay Republic: Gorno-Altaysk; 51°57'21"N, 085°56'33"E; 8-2001; 1 ♂ (EJCB). Buryat: Naushki; 50°23'24"E, 106°06'04"E; 8-1984; 1 ♂ (EJCB). Irkutsk: Marituy; 51°47'18"N, 104°12'47"E; 7-1925; 1 ♂ (EJCB). Ivanovo: Ivanovo env.; 56°59'N, 041°01'E; 7-2009; 1 ♀ (EJCB). Kamchatka: Esso env.; 7-2002; alt. 500 m; 2 (RKCK). Krasnodar: Sochi; 43°36'13"N, 039°43'59"E; 6-1961; 1 ♀ (EJCB) – Sochi distr.

Aibga [= Aibga]; 43°35'14"N, 040°11'41"E; 7-2002; 1 ♀ (EJCB). Krasnoyarsk: Tanzybey; 53°08'03"N, 092°56'15"E; 8-1989; 1 ♂ (EJCB). Novosibirsk: Novosibirsk; 55°03'N, 082°57'E; 7-1986; 2 (EJCB). Primorye: Novovarvarovka; 43°57'N, 133°02'E; 7-1989; alt. 300 m; 1 ♀ (EJCB) – Ryazanovka; 42°49'N, 131°13'E; 7-1992; 1 ♀ (EJCB) – Ussurijskij Zapovednik [= Ussuriysky Nature Reserve]; 43°38'28"N, 132°31'08"E; 6-1990; 1 ♀ (EJCB) – Ussuriyskii rayon, river Shufak, 7 km upstream from Yakovka; 7-1975; 1 ♀ (EJCB) – Yasnoye; 43°27'21"N, 132°09'40"E; 7-1989; alt. 450 m; 1 (EJCB). Sankt-Peterburg: Leningrad-Peterhof; 59°53'10"N, 029°54'31"E; 6-1973; 1 (EJCB). Saratov: st. Burasy, Novoburasskii r-n.; 52°12'N, 046°08'E; 6-2008; 1 (EJCB). Tuva: Khorumnug-Tayga Mts., Buren riv. valley, env. Sary-Khol lake; 50°38'41"N, 096°04'19"E; 6-2000; alt. 1700 m; 1 (EJCB) – Tsagan Shibetu ridge, Barlyk river; 50°20'27"N, 090°40'27"E; 6-2004; alt. 2300 m; 1 ♂ (EJCB) – Tsagan Shibetu ridge, Kargy river; 50°18'39"N, 090°37'36"E; 6-2004; alt. 1900 m; 2 ♂, 5 ♀ (EJCB) – V. Znamenka; 8-1949; 1 ♀ (EJCB). Volgograd: Gorn. Polyana; 48°37'48"N, 044°23'38"E; 6-1982; 1 ♂ (EJCB). Voronezh: Voronezh, Moravskaya [= Yuzhno Moravskaya]; 51°39'16"N, 039°06'34"E; 6-1954; 2 (EJCB). Yevrey: Arkhara region, Oblucie [= Obluchye]; 48°58'43"N, 131°02'24"E; 6, 7-1991; 1 ♂ (EJCB).

SLOVAKIA. Bratislava, Čunovo; 48°02'43"N, 017°10'09"E; 2005; Larval host: *Acer*; 3 (EJCB) – Bratislava, Devín, lom; 48°09'46"N, 017°00'13"E; 6-2006; alt. 200 m; Adult host: *Tilia*; 1 ♀ (EJCB) – Bratislava, Jur; 48°14'55"N, 017°12'40"E; 6-1988; 1 (EJCB) – Bratislava, Rusovce; 48°03'17"N, 017°10'12"E; 1989; Larval host: *Acer*; 5 (EJCB) – Bratislava, Šúr; 48°14'32"N, 017°13'30"E; 7-1980; Adult host: *Salix*; 3 (EJCB) – Bratislava, Rača; 48°10'44"N, 017°07'52"E; 7-2004; 1 (EJCB) – Brezno; 48°48'48"N, 019°38'45"E; 6-1975; Larval host: *Fagus sylvatica* L.; 1 (EJCB) – Bystrička na Orave; 49°12'27"N, 019°07'04"E; 8-1983; 5 (EJCB) – Chočské vrchy Mts., Prosiecka roklna; 49°09'58"N, 019°29'21"E; 7-1995; 1 (EJCB) – Dedinky; 48°52'01"N, 020°22'54"E; 7-1985; 1 (VKCB) – Devínska Kobyla; 48°10'45"N, 016°59'18"E; 6-1982; Larval host: *Tilia*; 3 (EJCB); 7-1982; Larval host: *Tilia*; 2 (EJCB) – Dolné Vestenice; 48°42'N, 18°24'E; 6-2001; 1 (EJCB) – Durďošík; 48°44'N, 21°24'E; 7-1995; 1 (EJCB) – Hlohovec; 48°26'27"N, 017°47'41"E; 7-1977; Adult host: *Salix*; 2 (EJCB); 6-1982; 1 (EJCB); 7-1982; 1 (EJCB) – Kúty (Malacky); 48°39'30"N, 017°01'05"E; 5-1986; Larval host: *Salix*; 10 (EJCB) – Ladomírov; 48°55'35"N, 022°18'06"E; 7-1990; 1 (EJCB) – Malacky; 48°26'46"N, 017°01'30"E; 6-2004; Adult host: *Salix*; 60 (EJCB) – Mošovce env., Somolický potok; 48°54'35"N, 018°53'29"E; 6-2003; 2 ♀ (EJCB) – Nízke Tatry; 48°55'16"N, 019°32'14"E; 7-1976; 1 (VKCB) – Považský Inovec (Mts), 20 km S of Nové Mesto n. Váhom, Tematínske vrchy (reserv.); 48°40'43"N, 014°54'16"E; 7-1998; 1 (EJCB) – Remetské Hámre; 48°53'N, 022°14'E; 1978; alt. 450 m; Larval host: *Salix caprea* L.; 4 (EJCB) 9 (VKCB) – Senné; 48°39'46"N, 022°01'55"E; 7-1995; 1 (EJCB) – Staré Hory - Donovaly; 48°51'44"N, 019°10'05"E; 2003; Larval host: *Acer pseudoplatanus* L.; 4 (EJCB) – Stupava - Borinka; 48°16'29"N, 017°04'16"E; 1980; Larval host: *Fagus sylvatica* L.; 10 (EJCB) – Tatranský Lieskovec; 49°05'34"N, 020°04'02"E; 7-1987; 1 (EJCB) – Trenčín - Inovec; 48°46'35"N, 018°02'24"E; 11 (EJCB) – Veľké Leváre; 48°30'18"N, 017°00'09"E; 7-1978; 1 (EJCB).

SLOVENIA. Petrinje; 45°33'N, 13°53'E; 6-2004; alt. 430 m; 1 ♂ (EJCB) – Podgorski kras mts., Poljane nad Škofjo Loko; 46°07'16"N, 014°11'07"E; 6-2001; 1 (EJCB).

TURKEY. Kastamonu: Inebolu env., Çuhadaroğlu; 41°53'47"N, 033°43'18"E; 6-2002; alt. 995 m; 2 (EJCB). Konya: Sultandağı, Sultan Daglari; 38°20'01"N, 031°20'01"E; 5-1994; 1 (EJCB).

TURKMENISTAN. Chaek, SE slopes of Mt. Dushak Ereg dag, 12 km SWW of Firjuza, C. Kopetdag Mts.; 37°54'N, 057°57'33"E; 6-1991; 1 ♂ (EJCB) – Chaek, SE slopes of Mt. Dushak Ereg dag, C. Kopetdag Mts.; 37°54'N, 057°57'33"E; 6-1991; 3 (EJCB).

UKRAINE. Klasy; 6-1963; 1 (MKCY) – Mukačevo; 48°26'41"N, 022°42'57"E; 7-1931; 1 ♀ (EJCB).

**Host plants cited:** Larval host: *Acer* sp., *Acer pseudoplatanus* L., *Alnus* sp., *Alnus glutinosa* (L.), *Carpinus* sp., *Fagus sylvatica* L., *Salix* sp., *Salix caprea* L., *Tilia* sp., *Ulmus* sp. *Zelkova* sp. Adult host: *Fagus sylvatica* L., *Fraxinus excelsior* L., *Tilia* sp., *Salix* sp., *Ulmus* sp.

**Remarks:** In the description, *Agrilus rosei* was compared to *A. auricollis* because of lack of prehumeral and because of having the larval host *Tilia*. The examination of the holotype revealed that the species is conspecific with *A. viridis*. The shape of prehumeral of *A. rosei* is within the variability of *A. viridis* which varies from the obsolete to tubercular or carinal. The genus *Tilia* is for a long time known host plant of *A. viridis* as showed by Jendek & Poláková, 2014.

For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus voriseki* Jendek, 1995** Fig. 6A

**Examined specimens:** RUSSIA. Primorye: Lazo; 43°20'N, 133°52'E; 6-2010; alt. 300 m; 3 (CNC).

**Distribution:** Asia: China: Heilongjiang; Kazakhstan: Shyghys Qazaqstan oblysy; Mongolia; Russia: Amur, Buryat, Irkutsk, Khabarovsk, Primorye, Tomsk, Yevrey, Zabaykalye.

**Remarks:** See also Remarks under *A. pseudocyanus*. For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus yunnanicola* Obenberger, 1936**

**Examined specimens:** CHINA. Yunnan: San-nen-Kai, Yunnan-Fou; 2 (MNHN).

**Remarks:** For additional examined specimens see Jendek & Grebennikov (2011).

***Agrilus zigzag* Marseul, 1866**

**Examined specimens:** KYRGYZSTAN. Bishkek: ushch. r. Alamedin, 50 km Yu Frunze [riverbed of Alamedin river, 50 km S of Frunze]; 42°37'N, 074°40'E; 7-1984; 5 (ZIN). MONGOLIA. Hövsgöl: Valley of Mörön-gol; 49°38'N, 100°09'E; 7-1985; 2 ♀ (NMPC). Töv: 90 km N Ulanbatar, Segnezer riv.; 48°25'N, 106°13'E; 6-2003; alt. 1450 m; 1 (NMPC). Ulaanbaatar: Ulan Batar [= Ulaanbaatar] env.; 47°56'N, 106°54'E; 7-1985; 1 (NMPC). RUSSIA. Kurgan: Lesnikovo, Ketovsk. distr., Kurgan reg.; 55°16'N, 065°19'E; 6-1998; Adult host: *Artemisia abrotanum* L.; 6 (MKCY). Volgograd: Stalingrad [= Volgograd], Gornaya Polyana; 48°38'N, 044°22'E; 6-1951; 3 (ZIN). UKRAINE. Kharkiv: Gaydary, 40 km S of Kharkov; 49°37'40"N, 36°18'25"E; 6-1984; 5 (NMPC).

**Host plants cited:** Adult host: *Artemisia abrotanum* L.

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