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**The Crabroninae Wasps of
"Biologiezentrum Linz"-Collection in Linz,
Austria, (Hymenoptera, Apoidea, Crabronidae), Part 2**

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Abstract: 8123 specimens of Crabroninae wasps of the following genera were examined: *Arnoldita* PATE 1948, *Crossocerus* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835, *Entomognathus* DAHLBOM 1844, *Dasyproctus* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835, *Kronbeinictus* LECLERCQ 1996, *Lindenius* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835 and *Odontocrabro* TSUNEKI 1971.

All information on localities is given, however, with common species only localities outside Central Europe are listed.

The hitherto unknown females of *Crossocerus quinlani* LECLERCQ 1989 and *Lindenius hamiger* (KOHL 1915) and the unknown male of *Lindenius pallidicornis* (F. MORAWITZ 1890) are described.

Key words: Apoidea, "Sphecidae", Crabronidae, Crabroninae

Introduction

To complement my previous publications (DOLLFUSS 2001, 2004a, 2004b) I have tried to identify a lot of Crabroninae of the Collection of "Biologiezentrum Linz" in Austria. Complete information including the localities and the dates of capture is listed. With widespread and commonly found species the exact localities and dates of capture are listed only if they were found outside of Central Europe. All together 8123 specimens of Crabroninae were examined (4121 ♀, 3002 ♂).

The hitherto unknown females of *Crossocerus quinlani* LECLERCQ 1989 and *Lindenius hamiger* (KOHL 1915) and the unknown male of *Lindenius pallidicornis* (F. MORAWITZ 1890) are described.

Material examined

Tribe: C r a b r o n i n i LATREILLE 1802

Arnoldita PATE 1948 1 ♂

Arnoldita perarmata (ARNOLD 1926) 1 ♂

Central African Republic: 1 ♂, Kembe, 4°29'N 21°53'E, 15.VII.1985, leg. Dollfuss.

Crossocerus* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835 1089 ♀♀, 904 ♂♂**Crossocerus acanthophorus* (KOHLE 1892) 12 ♀♀, 4 ♂♂**

B u l g a r i a : 1 ♀, Varna-Kabakum, 1.IX.1971, leg. Tkalcú; 1 ♀, Trakia, Trud, 5.IX.1997, leg. Zaykov. C r o a t i a : 1 ♀, Istria, Vodnjan env., 7.-9.VII.1999, leg. J. Halada; 1 ♀, Istria, SW Vodnjan, 18.VII.2002, leg. Ma. Halada; 1 ♀, Istria, 10 km N Pula, 25.VIII.1998, leg. J. Halada; 1 ♀, Makaraska riv., Drvenik, 16.VI.2000, leg. M. Kafka. C z e c h R e p u b l i c : 1 ♂, Moravia south, Jecmeniste Znojmo, 24.V.2003, leg. Ma. Halada. G r e e c e : 1 ♂, Kreta, Rethimnon. Ida-Geb., 10 km SE Anogia, 35°15'N 24°55'E, 1000m, 9.VI.1993, leg. H. & R. Rausch; 1 ♀, Kreta, Lassithi Agios Georgios, 30.V.1971, leg. Gross. I t a l y : 1 ♀, 1 ♂, Calabria, 15 km S Lokri, 1.-2.VIII.1999, leg. J. Halada. S l o v a k i a - S : 1 ♀, Gbelce, 2.VII.1952, leg. Kocourek. T u r k e y : 1 ♀, 2 ♂♂, Pr. Hakkari, Sat Dag. Vargös SW Yüksekova, 1700m, 4.-8.VIII.1983, leg. Schacht; 1 ♀, Urgup (Nevsehir), 4.VII.1997, leg. Ma. Halada.

***Crossocerus adhaesus* (KOHLE 1915) 10 ♀♀, 19 ♂♂**

G r e e c e : 2 ♀♀, 6 ♂♂, Rhodos, Vilcha NW Lindos, 15.X.2002, leg. M. Schwarz; 3 ♂♂, Rhodos, 3.5 km SW Masari, 15.X.2002, leg. Ma. Schwarz; 1 ♂, Kreta, Chania, Lefka Ori, 2 km NE Omalos, 35°21'N 23°56'E, 1250m, 4.VI.1993, leg. H. & R. Rausch; 3 ♂♂, Kreta, Iraklion, Ida-Geb., Weide E Skinakas, 35°13'N 24°56'E, 1050-1100m, 8.-9.VI.1997, leg. H. & R. Rausch; 1 ♂, Kreta, Rethimnon, Ida-Geb., 15 km S Anogia, 35°15'N 24°55'E, 1400-1500m, 9.VI.1993, leg. H. & R. Rausch. J o r d a n : 2 ♀♀, Petra, 14.V.1995, leg. Deneš sen.; 1 ♀, N Shuna, 20.-22.IV.1996, leg. M. Halada; 1 ♀, 3 ♂♂, 25 km SE Jerash, 700m, 32°10'N 35°54'E, 10.-11.IV.1994, leg. Becvar. 1 ♀, 1 ♂, Jordan Valley, Dayr Alla, 27.IV.1996, leg. Ma. Halada; 1 ♀, Zarga-Main, 7.V.1995, leg. Deneš jr. S a u d i - A r a b i a : 1 ♀, 1 ♂, El Riyadh, 3.IV.1959, leg. Diehl. In these specimens clypeus is completely yellow! T u r k e y : 1 ♀, Kahraman Maras 40 km SE, 10.VI.1998, leg. Ma. Halada.

***Crossocerus annulipes* (LEPELETIER de SAINT FARGEAU & BRULLÉ 1835) 30 ♀♀, 32 ♂♂**

B u l g a r i a : 1 ♀, Vlaha, 14.VIII.1993, leg. M. Halada; 1 ♀, S plan Beronovo, 10.VIII.1996, leg. Zaykov; 1 ♀, St. planina Beronovo, 18.VIII.1996, leg. Zaykov; 1 ♂, Neseber, VIII.1970, leg. Kocourek. I t a l y : 1 ♀, Lago di Garda, Torri, 15.IX.1991, leg. Deneš. K a z a k h s t a n : 1 ♀, lake Alakol, Kotuma, 22.VI.1995, leg. Mucka. K i r g i z i y a : 1 ♀, Kungel Alatau Tsholpon-Ata riv. V.2000, leg. Gurko; 1 ♂, Kizil-kiya, 40.2°N 72.1°E, 15.V.1994, leg. Ma. Halada.; 1 ♂, Arslanbad, 41.3°N 72.9°E, 12.-13.VI.1995, leg. Mucka. R o m a n i a : 1 ♀, Brasov Sacele, Circin Vale, 750m, 3.IX.1994, leg. Szexelty. S e r b i a : 2 ♀♀, Krupac (NW Bela Palanka), 43°17'N 22°10'E, Ufer der Nisava, 14.V.1983, leg. Rausch. U k r a i n e : 1 ♀, Lvov, 14.VII.1985, leg. J. & M. Halada. U z b e k i s t a n : 1 ♀, Aktas, 70 km NE Tachkent, 41.2°N 69.4°E, 27.V.1994, leg. J. Halada. The remaining specimens come from the Czech Republic (16 ♀♀, 26 ♂♂) and Slovakia (3 ♀♀, 3 ♂♂).

***Crossocerus assimilis* (F. SMITH 1856) 57 ♀♀, 12 ♂♂**

B u l g a r i a : 3 ♀♀, 1 ♂, V. Sipka, VII.1969, leg. Deneš; 1 ♂, Rodopi, Galabova, 18.VI.1996, leg. Zaykov. G e o r g i a : 1 ♀, Caucasus centr., Svanetia, Mestia, 1600-2000m, 17.-30.VI.1989, leg. Deneš. K i r g i z i y a : 1 ♀, 1 ♂, Arslanbad, 41.3°N 72.9°E, 12.-13.VI.1995, leg. J. Halada; 1 ♂, Terek Sai, 41.5°N 71.1°E, 7.VI.1995, leg. Mucka. M o n g o l i a : 1 ♀, Ulanbatar, Tuul riv. vall., 12.VII.2003, leg. J. Halada. T u r k e y : 1 ♂, 10 km W Urgup, 15.VI.1998, leg. Ma. Halada. The remaining specimens come from the Czech Republic (42 ♀♀, 4 ♂♂) and Slovakia (9 ♀♀, 3 ♂♂).

***Crossocerus aswad* (NURSE 1902) 3 ♀ ♀**

C h i n a : 3 ♀ ♀, Yunnan prov., Heishui, 35 km N Lijiang, 27.13 N 100.19 E, 18.VI.-4.VII.1993, leg. S. Becvar.

***Crossocerus barbipes* (DAHLBOM 1845) 8 ♀ ♀, 5 ♂ ♂**

C h i n a : 1 ♂, Yunnan prov., Heishui, 35 km N Lijiang, 27°13'N 100°19'E, 1.-19.VII.1992, leg. Becvar. R o m a n i a : 1 ♀, Mtii Parang Cheile Gilortului, 900m, 20.VI.1958, leg. Ruicanescu. U k r a i n e : 1 ♀, Crimea, Jalta env. VIII.-X.1985, leg. J. Halada. The remaining specimens come from the Czech Republic (5 ♀ ♀, 4 ♂ ♂) and Slovakia (1 ♀).

***Crossocerus binotatus* LEPELETIER de SAINT FARGEAU & BRULLÉ 1798 22 ♀ ♀, 5 ♂ ♂**

S l o v e n i a : 1 ♀, Podkoren, 3.VIII.1978, leg. Parré; 1 ♀, Kajuska Gora, 6.VIII.1978, leg. Parré. The remaining specimens come from the Czech Republic (18 ♀ ♀, 5 ♂ ♂) und Slovakia (3 ♀ ♀).

***Crossocerus bispinosus* de BEAUMONT 1967 3 ♂ ♂**

B u l g a r i a : 1 ♂, Rodopi, Markovo, 1.VII.1997, leg. Zaykov; 1 ♂, Varvara, 6.-12.VIII.1970, leg. Kocourek. G r e e c e : 1 ♂, Phokis, Giona, Lyritsa, 1300-1600m, 3.VIII.1981, leg. Ebmer.

***Crossocerus bulawayoensis* (ARNOLD 1932) 2 ♀ ♀, 2 ♂ ♂**

K e n y a : 2 ♀ ♀, Voi (Tsavo), 11.-14.IV.1997, leg. Ma. Halada. R e p u b l i c o f C e n t r a l A f r i c a : 1 ♂, Kembe, 4.29 N 21.53 E, 29.VII.1985, leg. Dollfuss. S e n e g a l : 1 ♂, Simenti, N.P. Nikolo Koba, XII.2000, leg. M. Bartak.

***Crossocerus capitosus* (SHUCKARD 1837) 21 ♀ ♀, 31 ♂ ♂**

B u l g a r i a : 2 ♂ ♂, Trakia, Proslav, 15.V.1996, leg. Zaykov. F i n l a n d : 3 ♀ ♀, 14 ♂ ♂, Helsinki ex larvae, 1968, leg. Ranin. G e o r g i a : 1 ♀, Caucasus centr., Svanetia Mestia, 1600-2000m, 17.-30.VI.1989, leg. Deneš. The remaining specimens come from the Czech Republic (17 ♀ ♀, 15 ♂ ♂).

***Crossocerus cetratus* (SHUCKARD 1837) 46 ♀ ♀, 27 ♂ ♂**

B u l g a r i a : 1 ♀, Melnik, 25.VI.1978, leg. Padr; 1 ♀, Nessebr, 28.VI.1982, leg. Kocourek. C h i n a : 1 ♀, Yunnan, Heishui, 35 km N Lijiang, 27°13'N 100°19'E, 1.-19.VII.1992, leg. Becvar; 1 ♀, Yunnan prov., Heishui, 35 km N Lijiang, 27°13'N 100°19'E, 18.VI.-4.VII.1993, leg. Becvar. R o m a n i a : 1 ♀, 50 km W Turnu Severin Cozia, 26.V.2002, leg. Ma. Halada; 1 ♀, Sumice, 29.V.1989, leg. Becvar. T u r k e y : 1 ♀, Bolu lake env., 21.VI.1993, leg. Mi. Halada. U k r a i n e : 1 ♀, Poltava, 13.VIII.1985, leg. J. & M. Halada; 1 ♂, Skole Verecki pr., 15.VII.1985, leg. J. & M. Halada. The remaining specimens come from the Czech Republic (32 ♀ ♀, 26 ♂ ♂), Germany (1 ♀) and Slovakia (5 ♀ ♀).

***Crossocerus cinxius* (DAHLBOM 1838) 33 ♀ ♀, 20 ♂ ♂**

F i n l a n d : 15 ♀ ♀, 3 ♂ ♂, Helsinki, ex larvae, 1968, leg. Ranin. T a d j i k i s t a n - m e r : 1 ♀, Dusti, 7.V.1991, leg. Halada. The remaining specimens come from the Czech Republic (15 ♀ ♀, 17 ♂ ♂) and Slovakia (2 ♀ ♀).

***Crossocerus cinxius omeinus* LECLERCQ 1982 4♂♂**

C h i n a : 3♂♂, Yunnan prov., Heishui, 35 km N Lijiang, 27°13'N 100°19'E, 1.-19.VII.1992, leg. Becvar; 1♂, Yunnan prov., Heishui, 35 km N Lijiang, 27°13'N 100°19'E, 18.VI-4.VII.1993, leg. Becvar.

***Crossocerus congener* (DAHLBOM 1844) 9♀♀, 4♂♂**

B u l g a r i a - S W : 2♀♀, Vlahi, 14.VIII.1993, leg. M. Halada. C z e c h R e p u b l i c : 1♀, Bohemia, Podmoran u Prahy, 11.V.1968, leg. Padr; 1♀, Moravia, Prosec, 12.VII.1992; 1♀, Nemetske Hamre, 13.VII.1975, leg. Padr; 2♀♀, Modrany navigace, 28.VII.1986, leg. Padr; 3♂♂, Moravia, Peuzdrany, 26.V.1979, leg. Kocourek; 1♂, Lodenice, VIII.1955, leg. Macek. R o m a n i a - S W : 1♀, Cozia, W Turnu Severin, 26.V.2002, leg. M. Halda. S e r b i a - S : 1♀, Krupac (NW Bela Palanka), 43°17'N 22°10'N, Ufer der Nisava, 250m, 14.V.1983, leg. Rausch.

***Crossocerus denticrus* HERRICH-SCHAEFFER 1840 1♂**

R u s s i a n F e d e r a t i o n - o r . : 1♂, Primorskij Kroj Kraskino Azajsanovka env., 13.-16.VII.1992, leg. Snizek.

***Crossocerus dimidiatus* (FABRICIUS 1781) 15♀♀, 15♂♂**

K i r g i z i y a : 1♀, Alish W Narin, 2000-2500m, 26.-30.VII.1991, leg. Becvar. S p a i n : 1♀, Katalonien Pyrenäen, Coll del Canto zv. Sort u. La Seu d'Urgel, 2 km W Gurils del Canto, 1900m, 23.VIII.1990, leg. Neumayer. The remaining specimens come from the Czech Republic (12♀♀, 14♂♂) and Germany (1♀1♂).

***Crossocerus distinguendus* (A. MORAWITZ 1866) 9♀♀, 48♂♂**

B u l g a r i a : 2♂♂, Rodopi, Galabovo, 25.VII.1997, leg. Zaykov; 1♂, Rodopi, Hrabrino, 1.IX.1997, leg. Zaykov; 1♂, Ropojamo, 1.VIII.1979, leg. Hoffer; 1♂, Primorsko, VII.1979, leg. Hoffer; 1♂, Vlahi, 14.VIII.1993, leg. M. Halada. C r o a t i a : 1♂, Istrie, Umag env., 5.IX.1996, leg. J. Halada. G r e e c e : 4♂♂, Achaia, Chelmos Styxto, 1900-2100m, 31.VII.1981, leg. Ebmer. These males from Greece are characterized by complete black forefemora without long hairs. U k r a i n e : 1♂, Crimea, Eupatoria, 22.VI.1999, leg. Gurko; 1♂, Crimea, Simpheropol, 3.VII.1997, leg. Gurko. The remaining specimens come from the Czech Republic (9♀♀, 35♂♂). The females of *C. distinguendus* are very similar to *C. elongatulus* and I have been not able to distinguish most of cases.

***Crossocerus elongatulus* (VANDER LINDEN 1829) 168♀♀, 225♂♂**

A l g e r i a : 3♂♂, Alger, 15.-16.V.1971, leg. Hoffer & Horak. A z e r b a i j a n : 3♀♀, Gobustan, 13.V.1978, leg. Kocourek. B u l g a r i a : 3♀♀, 38♂♂, Sozopol, 1978-1979, leg. Hoffer; 3♀♀, 10♂♂, Ropotano, 20.VII.-11.VIII.1979, leg. Hoffer; 14♂♂, Akhtopol, 1.VIII.1978-VII.1979, leg. Hoffer; 3♂♂, Primorsko, 25.VII.1979, leg. Hoffer; 2♂♂, Vlahi, 14.VIII.1993, leg. M. Halada; 1♂, Varvara, 12.VIII.1970, leg. Kocourek; 1♂, Slncev Brjag, 8.VIII.1968, leg. Kocourek; 2♂♂, St. planina Beronovo, 18.VIII.1996, leg. Zaykov; 1♀, 2♂♂, Trakia, Proslav, 30.VI.1996, leg. Zaykov; 1♂, Zrud Trakia, 15.IX.1997, leg. Zaykov; 2♂♂, Mts. Pirin, Begovia, 13.VIII.1993, leg. M. Halada; 1♀, Slncev Brjag, VII.1968, leg. Kocourek; 1♀, Rodopi, Habrino, 20.V.1997, leg. Zaykov; 1♀, Trakia, Volvodinovo, 25.VI.1996, leg. Zaykov; 1♀, Melnik, 13.VIII.1993, leg. M. Halada; 1♀, Girka, 7.V.1969, leg. Deneš; 1♀, Sandanski, 21.VII.1966, leg. Kocourek; 1♀, Sandanski, V.1967, leg. Kocourek. C r o a t i a : 1♂, Istria SW, Vodnjan, 18.VII.2002, leg. M. Halada; 1♀, Istrie, Umag env., 5.IX.1996, leg. J. Halada. F i n l a n d : 2♀♀, Hirvensalmi, VII.1968, leg. Ranin. G r e e c e : 1♂, Bootien, Parnaß, oberh. Kalyvie,

1700-1800m, 4.VIII.1981, leg. Ebmer; 2♂♂, Epiros, Ioannina, Pindos-Geb., W Katara Paß, 39°47'N 21°13'E, 1550-1600m, 21.-22.VI.1993, leg. H. & R. Rausch; 1♂, Chalkidike, Kasandra env., 5.-9.IX.1997, leg. J. Halada; 1♀, Pelopones, Arkadien, Parnon-Geb., W Kastanitsa, 37°14'N 22°36'E, 1500-1600m, leg. H. & R. Rausch. H u n g a r y : 1♀, Budapest, leg. Deneš. K a z a k h s t a n : 3♀♀, 1♂, Issik env. S, 22.VI.1992, leg. J. Halada; 8♀♀, 1♂, Alma Ata, 1.VI.1994, leg. Ma. Halada; 3♀♀, Alma Ata, 25.VI.1992, leg. Deneš. K i r g i z i y a : 1♂, Kirgiziya Mts. Ala-Archa riv., Kaska-Suu, 1650m, VII.2000, leg. Gurko. M o r o c c o : 9♀♀, 22♂♂, 40 km E Taroudant Aoulouz, 17.V.1997, leg. J. Halada; 5♀♀, 7♂♂, Aoulou env., 17.V.1997, leg. Deneš jr.; 2♀♀, 4♂♂, 10 km S Tan-Tan, 14.VI.1995, leg. Ma. Halada; 2♂♂, 12 km E Ifrane, 9.-10.V.1997, leg. J. Halada; 4♀♀, 3♂♂, Oued Massa, Tiznit, 8.V.2003, leg. M. Halada; 1♂, 30 km N Zagora, 15.V.1997, leg. J. Halada; 2♀♀, 2♂♂, Tiznit Oued, Massa, 8.V.2003, leg. Snizek; 1♂, Marrakech, 15.IV.1990, leg. M. Halada; 1♂, Essaouira, 9.V.1995, leg. Mi. Halada; 1♂, Amouguer, 50 km W Rich, 23.V.1995, leg. Mi. Halada; 1♂, Tamri, 70 km N Agadir, 8.V.1995, leg. Ma. Halada; 1♂, 20 km N Foun-Zguid, 29.-30.1995, leg. Ma. Halada; 1♂, Taroudant, 18.IV.1990, leg. M. Halada; 1♂, N Aknoul, 4.V.2003, leg. M. Halada; 3♀♀, 30 km E Taroudant, 27.IV.1995, leg. Mi. Halada; 1♀, Agadir env., 18.V.1997, leg. Deneš; 1♀, Ifrane, 1.-2.VI.1995, leg. Ma. Halada. R o m a n i a : 1♂, Brasov Sacxix, 700m, Babarusca Valx, 4.VII.1994, leg. Szekely; 1♀, Fiser-Transylv., 2.VIII.1968, leg. Padr; 1♀, Brasov Timis Jos, 700m, 28.VII.1994, leg. Szekely; 1♀, Brasov Timis, 650m, 19.VI.1994, leg. Szekely. S p a i n : 3♂♂, Pr. Teruel, Sierra d'Albarracin Noguerra, 1600m, 3.-6.VIII. 1980, leg. Schacht; 2♂♂, Malaga, 13.IV.1990, leg. M. Halada. T u r k e y : 1♂, Hammamet env., 15.III.1996, leg. Deneš jr.; 1♂, Makthar, 16.-17.IV.1998, leg. Deneš jr. T u r k e y : 8♂♂, 40 km E Muradiye, 2200m, 5.VII.2000, leg. M. Halada; 1♀, 1♂, Gevas/Van Gölü, 29.VI.1993, leg. Mi. Halada; 1♂♂, Bitlis, Nemrut Dag, 2000m, 16.VIII.1991, leg. M. Halada; 1♂, Anatolia occ. Usak, 28.VI.1934; 1♂, Pr. Hakkari, Habur Deresi-Tal, S Betysebap, 1100m, 10.VIII.1983, leg. Schacht; 6♀♀, Pr. Hakkari, Sat Dag, Varegös SW Yükekova, 1700m, 4.-8.VIII.1983, leg. Schacht; 3♀♀, 10 km S Ahlat, 24.VI.1997, leg. Ma. Halada; 1♀, Taskent/Konya, 1800m, 6.VIII.1991, leg. Halada; 1♀, Belu lake env., 21.VI.1993, leg. Mi. Halada; 1♀, Aksehir/Konya, 2000m, 2.VIII.1991, leg. Halada; 1♀, Goksun Tufanbeli, 8.VI.2001, leg. Snizek. T u r k m e n i a : 1♂, Kopet-Dag, Geok-Tepe, 15 km S, 2.V.1993, leg. J. Halada; 1♂, Kopet-Dag, Garrygala env., IV.1995, leg. Matlenski. U k r a i n e : 1♂, Lvov, 14.VII.1985, leg. J. & M. Halada; 1♂, Crimea, Eupatoria, 13.VII.2000, leg. Gurko; 1♀, Jagetia, 13.VII.1985, J. & M. Halada. U S A (W A) : 1♀, Benton CO, Prosser WSU area, VI.1996, leg. Stary. The remaining specimens come from the Czech Republic (71♀♀, 59♂♂) and Slovakia (12♀♀, 6♂♂).

***Crossocerus elongatulus foveolatus* HOLMBERG 1903 2♀♀, 2♂♂**

A r g e n t i n a : 2♀♀, 2♂♂, Pronun Jamento, Prov. Entre Rios, 10.II.1964, leg. Walz.

***Crossocerus elongatulus trinacrinus* de BEAUMONT 1959 1♀**

I t a l y : 1♀, Sicilia, Madonia, Collesano env., 1-600m, 3.-5.VI.2002, leg. J. Halada.

***Crossocerus emarginatus* (KOHL 1899) 1♀, 2♂♂**

M o n g o l i a : 1♀, 2♂♂, Gobi, Gurvan Saykhan N.P., 40 km W Dalanzadgad, 2000m, 28.-30.VI.2003, leg. J. Halada.

***Crossocerus esau* de BEAUMONT 1967 12♂♂**

T u r k e y : 2♂♂, Pr. Hakkari, Suvari Halil Pass, SE Betisebap, 2300m, 2.VI.1982, leg. Schacht; 2♂♂, Pr. Hakkari, Suvari Halil Pass, S Betisebap, 2300m, 11.VIII.1983, leg. Schacht; 2♂♂, Seydisehir Konyan, 1800m, 4.VIII.1991, leg. M. Halada; 2♂♂, Konya, Mt. Aydos/Eregli, 1600m, 7.VIII.1991, leg. M. Halada; 1♂, Gevas/Van Gölü, 29.VI.1993, leg. Jirousek; 1♂, Eregli, 13.VII.1987, leg. Ma. Halada; 1♂, 40 km NE Muradiye, 2200m, 5.VII.2000, leg. M. Halada. T u r k m e n i a : 1♂, Aschabad env., 10.VI.1993, leg. M. Halada.

***Crossocerus exiguus* (VANDER LINDEN 1829) 49 ♀ ♀, 53 ♂ ♂**

B u l g a r i a : 1 ♀, Sandanski, 4.VI.1978, leg. Kocourek; 1 ♀, Trakia Proslav, 25.VIII.1997, leg. Zaykov; 1 ♀, Sandanski, 19.V.1979, leg. Kocourek. C h i n a - c : 2 ♀ ♀, 2 ♂ ♂, Jingangling, 50 km W Linfen, 36.2°N 111.7°E, 29.-30.V.1996, leg. J. Halada; 1 ♀, Zhaoyi Zhongtiao Shan mt., 34.8°N 111.2°E, 21.V.1996, leg. J. Halada. I t a l y : 7 ♂ ♂, Dolomiti, N Trento, 7.VIII.1999, leg. J. Halada. M o n g o l i a : 1 ♀, Ulanbatar, Tuul riv. vall., 12.VII.2003, leg. J. Halada. R o m a n i a : 4 ♀ ♀, 1 ♂, W Turmu Severin Dubova, 24.V.2002, leg. Ma. Halada; 1 ♀, Retezatului Mts. Pietrele, 900m, VIII.1999, leg. Snizek; 1 ♀, 15 km N Resita, 28.V.2002, leg. M. Halada. T u r k m e n i a : 2 ♀ ♀, Kugit-Angtau mount Koiten, 8.VI.1993, leg. Deneš. The remaining specimens come from Czech Republic (31 ♀ ♀, 38 ♂ ♂) and Slovakia (3 ♀ ♀, 5 ♂ ♂).

***Crossocerus fergusonii* PATE 1944 1 ♂**

U . S . A . (W A) : 1 ♂, Klickitat CO, 23.V.1996, leg. Sary.

***Crossocerus gerardi* LECLERCQ 1968 1 ♂,**

T h a i l a n d : 1 ♂, Mae Hong Son prov., Soppong, 1500m, 29°27'N 98°20'E, 7.-12.V.1996, leg. Becvar.

***Crossocerus guichardi* LECLERCQ 1972 1 ♂**

C z e c h R e p u b l i c : 1 ♂, Moravia Vyskov, 9.V.1974, leg. Kocourek.

***Crossocerus hakusanus* TSUNEKI 1954 2 ♀**

J a p a n : 1 ♀, Mt. Hira, Ohmi, 4.-6.VIII.1955, leg. O. Saro. R u s s i a n F e d e r a t i o n : 1 ♀, Primorskij Kraj, Novocugujevka, 26.-31.VII.1992, leg. Snizek.

***Crossocerus heydeni* KOHL 1880 1 ♀**

U k r a i n e : 1 ♀, Crimea, Eupatoria, 10. VII.1997, leg. Gurko.

***Crossocerus hirashimai* TSUNEKI 1966 1 ♂**

T h a i l a n d : 1 ♂, Mae Hong Son prov., pass near Soppong, 1500m, 19°27'N 98°20'E, 7.-10.1997, leg. S. Becvar jr. & sen. This male differs from the original description only by the existence of a small precoxal process on mesopleuron.

***Crossocerus jubilans* (KOHL 1915) 1 ♂**

K i r g i z i y a : 1 ♂, Alei Mt. R., Katta-Karakol, 2550m, 39°52'N 73°22'E, 15.VII.2000, leg. Makogonova.

***Crossocerus kohli* (BISCHOFF 1921) 1 ♀, 6 ♂ ♂**

K a z a k h s t a n : 2 ♂ ♂, 20 km SE Aksay env., 16.-19.VIII.1992, leg. J. Halada. K i r g i z i y a : 1 ♂, Dzhai-Abad area env. Say, VI.2000, leg. Gurko; 1 ♂, Alai Mt. R. JkizjakKok-Suu riv. bass, VII.2000, leg. Gurko; 1 ♂, Tash-Arik, 11 km E Talas, 4.VII.1992, leg. M. Halada; 1 ♂, Dzhilai-Abadskaya Obl., Tschatkal-Geb., E Dzhany-Bazar, 41°40'24''N 70°54'48''E GPS, 2150-2700m, 10.-11.VII.1998, leg. H. & R. Rausch; 1 ♀, Oshskaya Obl., Distr. Alajsky, S Kok-Suu, Bachtal, 39°40'28''N 73°45'57''E GPS, 3000m, 24.-25.VII.1898, leg. H. & R. Rausch.

***Crossocerus leucostoma* (LINNAEUS 1758) 39 ♀ ♀, 13 ♂ ♂**

B u l g a r i a : 1 ♀, Pirin Begovica, 30.VI.1990, leg. Tkalku; 1 ♀, Zdravec, Rodopi, 5.VII.1997, leg. Zaykov; 1 ♀, Zdravec, Rodopi, 1.VIII.1997, leg. Zaykov; 1 ♂, mont. Pirin n.occ. nad 2000, 2.VIII.1982, leg. J. Halada; 1 ♂, Slincev Brjag, VII.1972, leg. Kocourek. F i n l a n d : 1 ♀, Hirvensalmi, VII.1968, leg. Ranin. I t a l y : 1 ♂, Katt. Alpen, Sea Alm, 19.VI.1972, leg. Paré. R o m a n i a - S W : 1 ♀, Resita, Anina, 4.VI.2000, leg. Snizek. U k r a i n e : 1 ♀, Skole, Verecky pr., 15.VII.1985, leg. Deneš. The remaining specimens come from Austria (1 ♀, 1 ♂), the Czech Republic (31 ♀ ♀, 9 ♂ ♂) and Slovakia (1 ♀).

***Crossocerus megacephalus* (ROSSI 1790) 31 ♀ ♀, 24 ♂ ♂**

B u l g a r i a : 1 ♀, 1 ♂, Slincev Brjag, VI.1972, leg. Kocourek. G r e e c e : 1 ♂, Kreta, Iraklion, Ida-Geb., Weide E Skinakas, 35°13'N 24°56'E, 1050-1100m, 8.-9.VI.1993, leg. H. & R. Rausch. M o r o c c o : 1 ♂, 12 km E Ifrane, 9.-10.V.1997, leg. J. Halada; 1 ♂, Ifrane, 1700m 33°31'N 5°10'W, 10.VI.1982, leg. Rausch. T a d j i k i s t a n : 2 ♀ ♀, 1 ♂, W Pamir Mts., 30 km N Rushan, 3500m, VII.2000, leg. Gurko. The remaining specimens come from the Czech Republic ((26 ♀ ♀, 17 ♂ ♂) and Slovakia (2 ♀ ♀, 2 ♂ ♂).

***Crossocerus melanius* (ROHWER 1911) 1 ♂**

M e x i c o : 1 ♂, Mexico, ESE, Nexapa, 2850m, 19.05 N 98.43 W, 12.VIII.1991, leg. Aspöck, Rausch, Ressler.

***Crossocerus mexicanus* LECLERCQ and MILLER 2000 1 ♀,**

M e x i c o : 1 ♀, Mexico, ESE, Nexapa, 2850m, 19.05 N 98.43 W, 12.VIII.1991, leg. Aspöck, Rausch, Ressler.

***Crossocerus mindanaonis* TSUNEKI 1984 1 ♀**

L a o s - N : 1 ♀, Oudomxai, Oudom Xai (17 km NEE), 20°45'N 102°09'E, 1100m, 1.-9.V.2002, leg. Vit Kuban.

***Crossocerus morawitzi* (GUSSAKOVSKIJ 1952) 3 ♀ ♀, 4 ♂ ♂**

T a d z h i k i s t a n : 2 ♀, 4 ♂ ♂, Pendzikend 20 km E Resen Pojom, 29.VI.1981, leg. Kocourek. K i r g i z i y a : 1 ♀, Terek-Sai, 41.5°N 71.1°E, 7.VI.1995, leg. J. Halada.

***Crossocerus nigrinus* (LEPELETIER de SAINT FARGEAU & BRULLÉ 1835) 14 ♀ ♀, 26 ♂ ♂**

A u s t r i a (1 ♂), C z e c h R e p u b l i c (13 ♀ ♀, 24 ♂ ♂) and S l o v a k i a (1 ♀, 1 ♂).

***Crossocerus noonadanus* TSUNEKI 1976 1 ♀**

M a l a y s i a : 1 ♀, Borneo-Sabah, Mount. Kinabalu, 2800m, 18.III.-12.IV.1996, leg. J. Linda.

***Crossocerus ovalis* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835 45 ♀ ♀, 3 ♂ ♂**

F i n l a n d : 3 ♀ ♀, Helsinki, 15.VI.1968, leg. Ranin; 1 ♀, Helsingin Pitaj, 3.VIII.1968, leg. Ranin; 5 ♀ ♀, Hirvensalmi, VII.1968, leg. Ranin. The remaining specimens come from the Czech Republic (26 ♀ ♀, 3 ♂ ♂) and Slovakia (10 ♀ ♀).

***Crossocerus palmipes* (LINNAEUS 1767) 11 ♀ ♀, 16 ♂ ♂**

B u l g a r i a : 1 ♂, Slncev Brjag, VII.1972, leg. Kocourek. F i n l a n d : 1 ♀, Helsingin Pitaj, 3.VIII.1968, leg. Ranin. The remaining specimens come from Czech Republic (8 ♀ ♀, 10 ♂ ♂) and Slovakia (2 ♀ ♀, 5 ♂ ♂).

***Crossocerus pignatus* LECLERCQ 1968 1 ♀**

E c u a d o r : 1 ♀, Tungurahua prov. Banos, 1500m, 14.II.2002, leg. M. Halada.

***Crossocerus podagricus* (VANDER LINDEN 1829) 191 ♀ ♀, 79 ♂ ♂**

B u l g a r i a : 11 ♀ ♀, 5 ♂ ♂, Vlahi, 14.VIII.1993, leg. M. Halada; 1 ♀, Slncev Brjag, 18.-30.V.1989, leg. J. Halada; 2 ♀ ♀, 4 ♂ ♂, Mts. Pirin, Begovica, 13.VIII.1993, leg. Mi. Halada; 1 ♀, Trakia, Trud, 20.VII.1997, leg. Zaykov; 1 ♀, Rodopi, Hrabrino, 1.IX.1997, leg. Zaykov; 2 ♀ ♀, St. planina Beronova, 18.VIII.1996, leg. Zaykov; 1 ♀, 2 ♂ ♂, Sozopol, 8.VII.1978, leg. Hoffer; 3 ♂ ♂, Melnik, 13.VIII.1993, leg. M. Halada; 1 ♂, Rodopi, Zdravez, 15.VI.1996, leg. Zaykov; 1 ♂, Rodopi, Brianovstica, 25.VII.1996, leg. Zaykov. C r o a t i a : 1 ♀, Istrie, Umag env., 5.IX.1996, leg. J. Halada; 2 ♀ ♀, Istrie, Umag env., 30.-31. ... 1996, leg. J. Halada; 1 ♂, Istria, Laborika, 20.VII.2002, leg. Ma. Halada. I t a l y : 4 ♀ ♀, Emilia Romagna, 60 km N Ravenna, 8.VII.2000, leg. J. Halada; 1 ♀, 30 km N Ravenna, 8.VII.2000, leg. J. Halada. M o r o c c o : 1 ♀, Assa, Vada Draa, V.1997, leg. Mucka. R o m a n i a : 6 ♀ ♀, Cozia, W Turmu Severin, 26.V.2002, leg. M. Halada; 2 ♀ ♀, W Turmu Severin, Dubova, 24.V.2002, leg. Ma. Halada; 1 ♀, Brasov Sacale, 650m, 16.VIII.1994, leg. Szekely; 1 ♀, Brasov Sacale, 650m, 5.VI.1994, leg. Szekely; 1 ♀, Porsahi, Pad. Bogatii, 700m, 4.VI.1994, leg. Szekely. S l o v e n i a - W : 1 ♀, 5 km E Koper, 10.VII.1999, leg. J. Halada. T u r k e y : 1 ♀, Pr. Hakkari, Sat Dag. Vargös SW Yüsekova, 1700m, 4.-9.VIII.1983, leg. Schacht; 1 ♀, N Akseki, 19.VI.1998, leg. Ma. Halada; 1 ♀, Konya, Mt. Aydos/Eregli, 1600m, 7.VIII.1991, leg. M. Halada; 1 ♂, Prov. Bitlis, 10 km SW Bitlis, 1200-1400m, 38°19'N 43°3'E, 28.-29.V.1985, leg. Rausch; 1 ♂, 20 km E Gurun Mezikiran Gecidi, 10.VII.1997, leg. Ma. Halada. U k r a i n e : 1 ♀, Crimea, Simpheropol, 8.VIII.1999, leg. Gurko. The remaining specimens come from the Czech Republic (111 ♀ ♀, 41 ♂ ♂) and Slovakia (39 ♀ ♀, 17 ♂ ♂).

***Crossocerus quadrimaculatus* (FABRICIUS 1793) 103 ♀ ♀, 99 ♂ ♂**

B u l g a r i a : 1 ♀, Slncev Brjag, 20.VII.-5.VIII.1965, leg. Padr; 1 ♀, Trakia, Voivodovo, 18.V.1996, leg. Zaykov; 1 ♀, Harmanli, 9.VI.1974, leg. Marek; 2 ♂ ♂, Trakia, Proslav, 15.VIII.1996, leg. Zaykov; 1 ♂, S pl. Beronovo, 8.IX.1997, leg. Zaykov; 1 ♂, Vlahi, 14.VIII.1993, leg. M. Halada; 1 ♂, Sandanski, 26.VII.1966, leg. Kocourek. I t a l y : 1 ♀, Südtirol, Vinschgau Schludern, 1500m, 23.VII.1996, leg. Tiefenthaler; 1 ♂, Südtirol, Schluderns, 30.VIII.1993, leg. Tiefenthaler. H u n g a r y : 1 ♀, Bez. Szolnok, Tiszafüred, 28.VIII.1992, leg. Tiefenthaler. K i r g i z i y a : 1 ♀, Kirgiziya Mt. Ala-Archa riv., Kashashi, 2.X.1999, leg. Gurko. R o m a n i a : 1 ♀, Brasov Sacele, 650m, 28.VIII.1994, leg. Szekely; 1 ♂, 20 km N Orosea, 19.IX.1997, leg. J. Halada. T u r k e y : 1 ♀, Pr. Hakkari, Sat Dag, Varogös SW Yüsekova, 1700m, 4.-8.VIII.1983, leg. Schacht; 5 ♂ ♂, Prov. Van, Van-See, 1700m, bei Eris, 3.VIII.1983, leg. Schacht; 1 ♂, Pr. Van, Van Gölü, 1720m, E Eris, 9.VIII.1982, leg. Schacht. The remaining specimens come from the Czech Republic (89 ♀ ♀, 72 ♂ ♂), Germany (1 ♂) and Slovakia (6 ♀ ♀, 13 ♂ ♂).

***Crossocerus quinlani* LECLERCQ 1989 1 ♀, 2 ♂ ♂**

N e p a l - E : 1 ♀, 2 ♂ ♂, Kosi Zone, Terhatum Distr., Tamur valley, Basantpur, 2400m, 29.-30.V.1996, leg. P. Cechovsky.

The **hitherto undescribed female** is characterized as follows: completely black, only scape yellow beneath; clypeus with 5 distinct teeth, middle-tooth clearly arised and broadened basally; collare only little raised, not as high as in male; pygidial area gutter-

wise excavated as in *Crossocerus annulipes*. Frons, vertex, propleuron, mesopleuron, scutum, scutellum, propodeum and gaster as in male. Body length: 7.0 mm.

***Crossocerus ruandensis* (ARNOLD 1932) 1♂**

U g a n d a - o c c . : 1♂, Kasese 10 km Kilenbe, 1800m, 21.XI.1994, leg. M. Snizek.

***Crossocerus rugosilateralis* LI & YANG 2003 1♂**

C h i n a : 1♂, Kansu mer., Xiahe (Labrang), 3300-3700m, 1.-15.VI.1998, leg. V. Major.

***Crossocerus simlaensis* (NURSE 1912) 3♂♂**

J a v a - E : 3♂♂, Tangkub anprahu Bandung, leg. Hamann.

***Crossocerus strangulatus* (BISCHOFF 1930) 13♀♀, 15♂♂**

K a z a k h s t a n : 2♀♀, Issik 3 km S, 22.-23.VI.1992, leg. Deneš & J. Halada; 1♀, 1♂, 20 km SE Aksay env., 16.-19.VI.1992, leg. J. Halada. K i r g i z i y a : 3♀♀, 7♂♂, Tash-Arik, 11 km E Talas, 4.VII.1992, leg. M. Halada; 2♀♀, Kizil-Kiya, 40.2°N 72.1E, 15.V.1994, leg. J. Halada; 1♀, 3♂♂, 10 km E Taldi-Sun, 42.9°N 78.0E, (Issik-kul), 23.V.1994, leg. Deneš jr.; 1♀, 40 km S Jani-Bazar, 41.7°N 71.1E, 8.-11.VI.1995, leg. J. Halada; 2♀♀, Ak-Suu riv., Tezskey Alatau Mt. Teploklujchenka vill., VI.1999, leg. Gurko; 1♀, Kirgiziya Mt. R. Ala-Archa riv. Ooru-Say 1650m, VII.2000, leg. Gurko; 1♂, Kirgiziya Mts., Ala-Archa riv., Kashka-Suu, 1650m, VII.2000, leg. Gurko; 1♂, Oshskaya Obl. Distr. Alajsky, S Kok-Suu, Bachtal, 39°40'28"N 73°45'57"E GPS, 3000m, 24.-25.VII.1998, leg. H. & R. Rausch; 1♂, Oshkaya, Distr. Nookatsky, Alai-Geb., (Nordteil d. zentralen Alai) linkes Seitental d. Flusses Kirghiz-Ata, 40°07'N 72°35'E, 2150-2500m, 23.-25.VI.1996, leg. H. Rausch. T a d z h i k i s t a n - S . : 1♂, Vachs, 4.-6.VI.1990, leg. J. & M. Halada.

***Crossocerus styrius* (KOHL 1892) 5♀♀, 6♂♂**

C z e c h R e p u b l i c : 3♀♀, 3♂♂, Moravia, Lhota u. P., VII.1997, leg. Deneš; 1♀, Moravia, Poudzdrany, 9.VII.1977, leg. Kocourek; 1♀, Moravia, Mitenice, VII.1977, leg. Kocourek; 1♂, Turna n.B., Hajaka dolina, I.VIII.1987, leg. Padr; 1♂, Bohemia, okolf Prahy, leg. Macek; 1♂, Moravia, Ladná, 16.VI.1977, leg. Kocourek.

***Crossocerus takasago* TSUNEKI 1966 1♂**

T h a i l a n d : 1♂, Mae Hong Son prov., pass near Soppong, 1500m, 19°27'N 98°20'E, 7.-10.V.1997, leg. S. Becvar j. & sen. This male differs from the original description by a completely yellow clypeus.

***Crossocerus tarsatus* (SHUCKARD 1837) 14♀♀, 10♂♂**

C z e c h R e p u b l i c : 1♂, Bohemia, Chlum u. Treb., 1984, leg. Niedl; 2♂♂, C. Budejovice, 4.VI.1985, leg. M. Halada; 1♀, C. Budejovice, VI.1992, leg. Cernis; 1♀, Bohemia, Majdalena, 18.IX.1966, leg. Deneš; 1♀, Bohemia, Majdalena, VI.1985, leg. Deneš; 1♀, Bohemia, Klikov, 23.VIII.1967, leg. Deneš. F r a n c e : 2♀♀, 1♂, Provence, Montague de Lure, Lanzon-Tal bei Cruis, 500m, 6.-8.VI.1981, leg. Schacht. G r e e c e : 1♂, Kreta, Rethimnon, Ida-Geb., 15 km S Anogia, 35°15'N 24°55'E, 1400-1500m, 9.VI.1993, leg. H. & R. Rausch. I r a n - N : 1♂, Kashan env., 3.V.1999, leg. Deneš sen. M o r o c c o : 4♀♀, 30 km E Taroudant, 27.VI.1995, leg. Ma. Halada; These females from Morocco probably belong to the subspecies *C. tarsatus*

richardsi de BEAUMONT 1950! S l o v a k i a : 1 ♀, K. Chlumac, 15.VI.1992, leg. Dazaj.
T u r k e y : 1 ♂, 10 km N Akseki pass, 24.V.1998, leg. Ma. Halada; 2 ♂ ♂, Manisia, 15 km NE
Demirci, 39°06'N 28°42'E, leg. Rausch; 1 ♀, Antakya, 28.III.1998, leg. M. Halada; 2 ♀ ♀, Halfeti
env., 3.-5.V.1994, leg. Mi. Halada.

***Crossocerus toledensis* LECLERCQ 1971 1 ♂**

S p a i n : 1 ♂, Catanula, 40 km N Tortosa, riv. Ebre, 16.V.2003, leg. J. Halada.

***Crossocerus tolucae* LECLERCQ 2000 1 ♂**

M e x i c o : 1 ♂, Chiapas 15 km SE San Christobal de las Casas, 16.40 N 92.33 W, 29.VII.1991,
2200m, leg. Aspöck, Rausch, Ressler.

***Crossocerus tsunekii* LECLERCQ & MILLER 2000 1 ♀**

M e x i c o : 1 ♀, Oaxaca Tlaxiaco, 2000-2100m, (& km NE u. SW), 17.17 N 97.40 W, 8.VIII.1991,
leg. Aspöck, Rausch, Ressler.

***Crossocerus vagabundus* (PANZER 1798) 18 ♀ ♀, 8 ♂ ♂**

B u l g a r i a : 1 ♀, Slncevo Brjag, VI.1972, leg. Blaha; 1 ♀, Nesebr, 28.VI.1982, leg. Kocourek.
K a z a k h s t a n : 2 ♂ ♂, lake Alakoi, Koktuma, 22.VI.1995, leg. Mucka; 1 ♂, lake Atakol,
Kotuma, 22.VI.1995, leg. J. Halada. T u r k e y - E : 1 ♀, 30 km E Tatvan, 7.VII.1997, leg. Ma.
Halada. U k r a i n e : 2 ♀ ♀, Crimea, Simferopol, Anatra, 24.V.2000, leg. Gurko.
U z b e k i s t a n : 1 ♀, Aktash Tashkent, 11.V.1997, leg. Niedl. The remaining specimens
come from the Czech Republic (9 ♀ ♀, 5 ♂ ♂) and Slovakia (3 ♀ ♀).

***Crossocerus walkeri* (SHUCKARD 1837) 16 ♀ ♀, 10 ♂ ♂**

B u l g a r i a : 1 ♂, Kresna-Pirin, V.1967, leg. Kocourek. F r a n c e : 1 ♂, Provence, Montagne de
Lure, Lauzon-Tal bei Gruis, 16.VI.1981, leg. Schacht. The remaining specimens come from the
Czech Republic (12 ♀ ♀, 7 ♂ ♂) and Slovakia (4 ♀ ♀, 1 ♂).

***Crossocerus varus* (LEPELETIER de SAINT FARGEAU & BRULLÉ 1835) 41 ♀ ♀, 18 ♂ ♂**

B u l g a r i a - o r : 1 ♀, Primorsko, VII.1979, leg. Hoffer; 1 ♂, Beronovo, S. pl., 8.IX.1997, leg.
Zaykov. F i n l a n d : 13 ♀ ♀, Hirvensalmi, VII.1968, leg. Ranin; 1 ♀, Helsingin Pitaj,
3.VIII.1968, leg. Ranin. The remaining specimens come from the Czech Republic (26 ♀ ♀, 11 ♂ ♂).

***Crossocerus wesmaeli* (VANDER LINDEN 1829) 34 ♀ ♀, 17 ♂ ♂**

F i n l a n d : 1 ♂, Hirvensalmi, VII.1968, leg. Ranin. T u r k e y : 1 ♀, Pr. Hakkari, Sat Dag,
Varegös SW Yüksekova, 1700m, 4.-8.VIII.1983, leg. Schacht. The remaining specimens come
from the Czech Republic (28 ♀ ♀, 12 ♂ ♂) and Slovakia (5 ♀ ♀, 4 ♂ ♂).

***Crossocerus yasumatsui* (TSUNEKI 1947) 1 ♀**

K i r g i z i y a - W : 1 ♀, 40 km S Jani-Bazar, 41.7°N 71.1°E, 8.-11.VI.1995, leg. Mucka.

***Crossocerus* sp. 2 ♂ ♂**

T h a i l a n d : 2 ♂ ♂, Mae Hong Son prov., pass near Soppong, 1500m, 19°27'N 98°20'E, 7.-

10.V.1997, leg. S. Becnar jr. & sen. These small males probably belong to the subgenus of *Yuchiha* PATE 1944. They are characterized as follows: very small size (3.5 mm); body black, only antennal scapes yellow-brown beneath; mandibles brown and tibiae partly brown; antenna 13-segmented; mandibles bidentate; vertex polished; scutum microsculptured without longitudinal rugae posterior; mesopleuron polished; propodeum short and polished, no distinct propodeal area.

***Crossocerus* sp. 1♂**

C h i n a : 1♂, Yunnan, Dequen, 3900 m/m, 10.-19.VII.1996, leg. Kucera. This male of subgenus *Blepharipus* can be distinctly recognized by mandibles extremely broadened on distal half, nearly twice as broad as at the base. Clypeus broad and blunt, with blunt teeth lateral, collare lateral broad, with distinct carina that curves behind median; hairs on vertex and scutum longer than diameter of ocellus; vertex scutum, scutellum and mesopleuron with microsculpture and nearly unpunctate; mesopleuron without precoxal tubercle; propodeal enclosure with microsculpture and not delimited by a pitted furrow posteriorly. Body completely black, body-length 7.5 mm.

***Crossocerus* sp. 1♂**

I n d i a - b o r . : 1♂, Uttar Pradesh, between Badarinath and Govino Ghat, 2800m, 9.-11.VII.1994, leg. Valer (?). This male is characterized as follows: black, whitish are: scapus anteriorly, mid- and hindtrochanter, foretibia anteriorly, mid- and hindtibia basally. Mandibles with 3 teeth; vertex, scutum, scutellum and mesopleuron smooth and shining; propodeal enclosure smooth and delimited by a small pitted furrow posteriorly. Body-length 8.0 mm.

***Crossocerus* sp. 1♀**

T u n i s i a : 1♀, Farnasa, 10.IV.1999, leg. Deneš jr. This female of subgenus *Blepharipus* is characterized as follows: black, fore- and midtibia, fore- and midtarse, pronotallobe, pygidial area and a proximal ring on hindtibia are light brown. Projecting median part of clypeus with three rounded teeth as in *C. nigrinus*. Vertex and scutum smooth and sparsely punctate; head and scutum with short pubescens; mesopleuron smooth and nearly unpunctate; scutum smooth posteriorly, without longitudinal rugae; mesopleuron without distinct tubercle in front of midcoxa; hindtibia strongly clavate, nearly without spines; propodeal enclosure smooth, surrounding furrow indistinct especially laterally. Tergit I 1.5 x as long as maximal breadth. Body-length 6.5 mm.

The following specimens of *Crossocerus* could not be named: M o n g o l i a : 1♀, Gobi, Gurvan Saykhan N.P., 40 km W Dalanzadgad, 2000m, 8.-30.VI.2003, leg. J. Halada; 1♂, 90 km N Ulanbatar, Segnezer riv., 1450m, 6.-8.VII.2003, leg. J. Halada. T h a i l a n d : 2♂♂, Mae Hong Son prov., pass near Soppong, 1500m, 19°27'N 98°20'E, 7.-10.V.1997, leg. S. Becnar jr. & sen. T u r k e y : 1♂, Prov. Bitlis, 10 km SW Bitlis, 38°19'N 42°03'E, 1200-1400m, 28.-29.V.1985, leg. Rausch.

***Dasyproctus* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835 144♀♀, 135♂♂**

***Dasyproctus abax* LECLERCQ 1958 1♂**

R e p u b l i c o f S o u t h A f r i c a : 1♂, Maputoland SW Emanguzi, 29.I.2003, leg. Snizek. This male is characterized by a distinct pygidial area on tergite VII!

***Dasyproctus agilis* (F. SMITH 1858) 6♂♂**

M a l a y s i a - w . : 6♂♂, Ipoh, 5 km E Tanjong Rambutan, 3.-15.IV.2000, leg. Snizek.

***Dasyproctus agilis orientalis* (CAMERON 1890) 17 ♀ ♀, 4 ♂ ♂**

L a o s : 1 ♀, Taduea env., 26.VI.1990. M a l a y s i a : 7 ♀ ♀, 2 ♂ ♂, Ipoh, 5 km E Tanjong Rambutan, 3.-15.IV.2000, leg. Snizek; 4 ♀ ♀, Pahang, 30 km NE Raub, Lata Lembik, 300m, 3°56'N 101°38'E, IV.-V.2002, leg. Jendek & Sausa. N e p a l - c . : 2 ♀ ♀, Bagmati Zone, Kathmandu valley, Latipur Distr., Godawari-Phulchoki, 2200-2700m, I.-7.VI.1996, leg. Cechovsky. P a k i s t a n : 1 ♂, Indusmündung bei Hyderabad, 2.V.1974, leg. Heiss. T h a i l a n d : 1 ♂, Pai (Sopong), 6.-9.VI.1997, leg. Snizek; 1 ♀, Chiang Dao, 19.-21.V.1997, leg. Snizek.

***Dasyproctus arabs* (KOHLE 1894) 8 ♀ ♀, 4 ♂ ♂**

J o r d a n : 2 ♀ ♀, Safi, 50 km N Karak, 15.IV.1996, leg. Mi. Halada; 1 ♀, Dead Sea env., 16.IV.1996, leg. Mi. Halada; 1 ♀, 2 ♂ ♂, Zarga-Main, 7.V.1995, leg. Deneš jun.; 1 ♂, Al Mazraq, Dead Sea, 16.IV.2002, leg. Snizek. M o r o c c o : 1 ♀, 20 km S Tazenakht, 12.V.2003, leg. M. Halada; 2 ♀ ♀, Tissint, 70 km E Tata, 28.IV.1995, leg. Ma. Halada; 1 ♀, Tata, 21.VI.1990, leg. M. Halada. P a k i s t a n : 1 ♂, S Balochistan, Awaran (distr. Khuzdar), 4.-7.IV.1993, leg. Becvar.

***Dasyproctus bipunctatus* LEPELETIER & BRULLÉ 1835 30 ♀ ♀, 30 ♂ ♂**

G a m b i a : 1 ♀, Bangui, XII.1985, leg. Saner. K e n y a : 8 ♀ ♀, Voi (Tsavo), 23.III.-4.IV.1997, leg. Ma. Halada; 7 ♀ ♀, Voi (Tsavo) env., 8.-18.XI.1996, leg. Mi. Halada; 1 ♀, 1 ♂, Voi (Tsavo) env., 22.XI.-2. XII. 1996, leg. Mi. Halada; 1 ♀, Voi (Tsavo), 11.-14.IV.1997, leg. Ma. Halada; 2 ♀ ♀, 12 ♂ ♂, Taita Hills, Wundanyi, 5.-10.IV.1997, leg. Ma. Halada; 1 ♀, Voi, 10.XII.1999, leg. Snizek; 9 ♂ ♂, Taita Hills, Wundanyi, 18.-22.III.1997, leg. Ma. Halada; 2 ♂ ♂, (Tsavo) Tai Hills, Wundanyi, 19.-21.XI.1996, leg. Mi. Halada. M a l a w i : 1 ♀, 85 km SE Lilongwe Dedze, 5.-12.I.2002, leg. J. Halada; 3 ♂ ♂, 160 km SE Lilongwe Balaka, 20.XII.2001, leg. J. Halada; 1 ♂, 85 km SE Lilongwe Dedza, 17.-19.XII.2001, leg. J. Halada; 1 ♂, 50 km SW Blantyre Chikwawa, 22.XII.2001, leg. J. Halada. N a m i b i a : 2 ♀ ♀, Rundu, 20.I.1993, leg. J. Gusenleitner. R e p u b l i c o f C e n t r a l A f r i c a : 1 ♀, Kembe, 4°29'N 21°53'E, 29.VII.1985, leg. Dollfuss. R e p u b l i c o f S o u t h A f r i c a : 1 ♀, West Cape, Barrydale, 16.XII.2002, leg. Snizek. Z a m b i a - c . : 1 ♀, 45 km SE Kitwe, 12.-15.I.2003, leg. J. Halada. Z i m b a b w e : 1 ♀, 30 km W Harare, 29.XI.1998, leg. Ma. Halada; 1 ♀, 25 km NE Shanva Nyaguir, 15.XII.1998, leg. M. Halada; 1 ♀, Mavhuradonha Saf. A., 15 km SE Muzarabani, 17.XII.1998, leg. M. Halada; 1 ♂, 40 km S Chipinge, Mt. Selinda, 13.XII.1998, leg. M. Halada.

***Dasyproctus bipunctatus lugubris* (ARNOLD 1927) 12 ♀ ♀, 17 ♂ ♂**

B e r i n : 1 ♂, Zangnanado riv., Ouene, 15.IV.2000, leg. J. Halada. K e n y a : 2 ♀ ♀, 1 ♂, Taita Hills, Wundanyi, 18.-22.III.1997, leg. Ma. Halada; 3 ♀ ♀, Taita Hills, Wundanyi, 5.-10.IV.1997, leg. Ma. Halada; 2 ♀ ♀, 1 ♂, (Tsavo) Taita Hills, Wundanyi, 19.-21.XI.1996, leg. Mi. Halada; 3 ♂ ♂, Voi (Tsavo), 23.II.-4.IV.1997, leg. Ma. Halada; 6 ♂ ♂, Voi (Tsavo) env., 8.-18.XI.1996, leg. Mi. Halada; 2 ♂ ♂, Voi (Tsavo) env., 22.XI.-2.XII.1996, leg. Mi. Halada; 2 ♂ ♂, Voi, 10.XII.1999, leg. Snizek. M a l a w i : 2 ♀ ♀, 160 km SE Lilongwe Balaka, 20.XII.2001, leg. J. Halada; 1 ♀, 85 km SE Lilongwe Dedza, 7.-19.XII.2001, leg. J. Halada. R e p u b l i c o f C e n t r a l A f r i c a : 1 ♂, Kembe, 4°29'N 21°53'E, 29.VII.1985, leg. Dollfuss. R e p u b l i c o f S o u t h A f r i c a : 1 ♀, West Cape, Klein-Karoo, Langberg, Grot riv., 15.II.2002, leg. M. Halada. Z i m b a b w e : 1 ♀, 40 km S Chipinge, Mt. Selinda, 13.XII.1998, leg. M. Halada.

***Dasyproctus barkeri* (ARNOLD 1927) 3 ♀ ♀**

R e p u b l i c o f S o u t h A f r i c a : 3 ♀ ♀, Maputoland SW Emanguzi, 29.I.2003, leg. Snizek.

***Dasyproctus braunsii* (KOHL 1894) 17 ♂♂**

K e n y a : 10 ♂♂, Voi (Tsavo) env., 8.-18.XI.1996, leg. M. Halada. M a l a w i (A f r i c a) : 2 ♂♂, 160 km SE Lilongwe Balaka, 20.XII.2001, leg. J. Halada; 1 ♂, 85 km SE Lilongwe Dedza, 17.-19.XII.2001, leg. J. Halada. R e p u b l i c o f S o u t h A f r i c a : 3 ♂♂, West Cape, Klein-Karoo, Grot. riv., Langberg, 24.XI.2002, leg. M. Halada; 1 ♂, Maputoland SW Emanguzi, 29.I.2003, leg. Snizek.

***Dasyproctus bredoi* (ARNOLD 1947) 3 ♂♂**

B e n i n (A f r i c a S E) : 1 ♂, Zangnanado, riv. Quene, 15.IV.2000, leg. J. Halada; 1 ♂, Cove, Zou riv., 16.IV.2000, leg. J. Halada. N a m i b i a : 1 ♂, Rundu, 22.I.1993, leg. J. Gusenleitner.

***Dasyproctus buddha* (CAMERON 1889) 3 ♀♀, 1 ♂**

L a o s : 1 ♀, Khammouan prov., Ban Khoun Ngeun, 18°07'N 104°29'E, 250m, XI.2000, leg. Jendek. M a l a y s i a - w . : 2 ♀♀, Ipoh, 5 km E Tanjong Rambutan, 3.-15-IV.2000, leg. Snizek. S u m a t r a - s . : 1 ♂, Padang, XI.1957, leg. Hamann.

***Dasyproctus croceosignatus* (ARNOLD 1940) 1 ♂,**

R e p u b l i c o f C e n t r a l A f r i c a : 1 ♂, Kembe, 4°29'N 21°53'E, 6.VIII.1985, leg. Dollfuss.

***Dasyproctus ferox* (de SAUSSURE 1892) 1 ♀**

M a d a g a s k a r : 1 ♀, Ft. Dauphin, Cap St. Luce, 19.X.1995, leg. Heiss.

***Dasyproctus immitis* (de SAUSSURE 1892) 7 ♀♀, 8 ♂♂**

K e n y a : 1 ♂, Voi (Tsavo), 11.-14.IV.1997, leg. M. Halada; 1 ♀, Voi (Tsavo), 23.III.-4.IV. 1997, leg. M. Halada. R e p u b l i c o f S o u t h A f r i c a : 1 ♀, 3 ♂♂, West Cape, Klein-Karoo, Grot riv. Langberg, 24.XII.2002, leg. M. Halada; 1 ♂, West Cape, Klein-Karoo, Langberg, Grot riv., 15.XII.2002, leg. M. Halada; 1 ♂, West Cape, Klein-Karoo, Barrydale, 16.XII.2002, leg. M. Halada; 1 ♀, Maputoland, SW Emanguzi, 29.I.2003, leg. Snizek; 1 ♂, West Cape, Moseel Bay, route Herbertsdale-Langberg, 19.I.2001, leg. Snizek; 1 ♀, Kwazulu Natal env., Oribi George, 5.II.2003, leg. Snizek; 1 ♀, West Cape, Barrydale, 16.XII.2002, leg. Snizek; 1 ♀, North West O.F.S., 20 km W Bothaville Vaal env., 27.XI.2002, leg. M. Halada. Z i m b a b w e : 1 ♀, 30 km W Harare, 22.XII.1998, leg. M. Halada.

***Dasyproctus kibonotensis* CAMERON 1908 13 ♀♀**

K e n y a : 8 ♀♀, Taita Hills, Wundanyi, 5.-10.IV.1997, leg. M. Halada; 3 ♀♀, Taita Hills, Wundanyi, 18.-22.III.1997, leg. M. Halada. M a l a w i : 1 ♀, 160 km SE Lilongwe Balaka, 20.XII.2001, leg. J. Halada. Z i m b a b w e : 1 ♀, 40 km S Chipinge, Mt. Selinda, 13.XII.1998, leg. M. Halada.

***Dasyproctus kibonotensis uniguttatus* (ARNOLD 1951) 2 ♀♀, 1 ♂**

K e n y a : 1 ♀, Taita Hills, Wundanyi, 18.-22.II.1997, leg. M. Halada; 1 ♀, Taita Hills, Wundanyi, 5.-10.IV.1997, leg. M. Halada. M a l a w i : 1 ♂, 160 km SE Lilongwe Balaka, 20.XII.2001, leg. J. Halada.

***Dasyproctus kutui* LECLERCQ 1958 1 ♂**

K e n y a : 1 ♂, Voi (Tsavo) env., 8.-18.XI.1996, leg. Mi. Halada. Lobe of Clypeus of this male is pointed!

***Dasyproctus lichtenburgensis* (ARNOLD 1926) 7 ♀ ♀, 16 ♂ ♂**

R e p u b l i c o f S o u t h A f r i c a : 2 ♀ ♀, 3 ♂ ♂, West Cape, Ashton (Robertson), 26.X.1999, leg. Ma. Halada; 1 ♀, West Cape, Kleinmond coast, 6.XI.1999, leg. M. Halada; 1 ♀, OFS Bethlehem N Kestell, 7.II.2001, leg. Snizek; 1 ♀, Northern Cape, E Kamieskroon, 2.XI.1999, leg. M. Halada; 1 ♀, West Cape, SW Kleinmond, 6.XI.1999, leg. Snizek; 1 ♀, Johannesburg, Transvaal, 15.XII.1951, leg. Zumpt; 5 ♂ ♂, West Cape, 50 km N Cape Town, 21.XI.2002, leg. Ma. Halada; 2 ♂ ♂, West Cape, Klein-Karoo, Grot riv., Langberg, 24.XI.2002, leg. Ma. Halada; 1 ♂, West Cape, Klein-Karoo, Langberg, Grot riv., 15.XII.2002, leg. Ma. Halada; 2 ♂ ♂, West Cape, Klein-Karoo, Barrydale, 16.XII.2002, leg. Ma. Halada; 1 ♂, Eastern Cape pr., Olifant Pass N Paterson, 25.-26.I.2000, leg. Becvar; 1 ♂, West Cape, 40 km S Lamberts Bay, 30.X.1999, leg. Ma. Halada; 1 ♂, North West prov., Klerksdorf, 11.I.2001, leg. Snizek.

***Dasyproctus localis* LECLERCQ 1958 15 ♀ ♀, 4 ♂ ♂**

K e n y a : 3 ♀ ♀, 3 ♂ ♂, Voi (Tsavo) env., 8.-18.XI.1996, leg. Mi. Halada; 6 ♀ ♀, Voi (Tsavo) 23.III.-4.IV.1997, leg. Ma. Halada; 4 ♀ ♀, Voi (Tsavo) env., 22.XI.-2.XII.1996, leg. Mi. Halada; 1 ♀, Voi (Tsavo), 22.XI.-2.XII.1996, leg. Snizek. N a m i b i a : 1 ♀, 100 km SW Rundu, 28.I.1993, leg. J. Gusenleitner. R e p u b l i c o f S o u t h A f r i c a : 1 ♂, Northern Cape E Kamieskroon, 2.XI.1999, leg. M. Halada.

***Dasyproctus medicus* LECLERCQ 1958 1 ♀, 1 ♂**

K e n y a - S E : 1 ♀, Voi (Tsavo), 23.II.-4.IV.1997, leg. Ma. Halada; 1 ♂, Voi, 10.XII.1999, leg. Snizek.

***Dasyproctus pentheri* LECLERCQ 1956 1 ♀**

M a l a y s i a - w . : 1 ♀, Ipoh, 5 km E Tanjung Rambutan, 3.-15.IV.2000, leg. Snizek.

***Dasyproctus saevus* (de SAUSSURE 1892) 11 ♀ ♀, 16 ♂ ♂**

K e n y a : 7 ♀ ♀, 5 ♂ ♂, Voi (Tsavo), 23.III.-4.IV.1997, leg. Ma. Halada; 1 ♀, 2 ♂ ♂, Voi (Tsavo) env., 8.-18.XI.1996, leg. Mi. Halada; 3 ♂ ♂, Lodwar, 20.XII.1995, leg. Snizek. M a l a w i : 1 ♀, 85 km SE Lilongwe Dedza, 17.-19.XII.2001, leg. J. Halada. N a m i b i a : 1 ♀, 5 ♂ ♂, Rundu, 18.-20.I.1993, leg. J. Gusenleitner. T a n z a n i a : 1 ♀, Mombo or., 9.-11.I.1996, leg. Snizek. Z i m b a b w e : 1 ♂, 30 km W Harare, 29.XI.1998, leg. Snizek.

***Dasyproctus simillimus* (F. SMITH 1856) 1 ♂**

R e p u b l i c o f S o u t h A f r i c a : 1 ♂, West Cape, Barrydale, 16.XII.2002, leg. Snizek.

***Dasyproctus simillimus funerus* (ARNOLD 1926) 1 ♂**

M a l a w i (A f r i c a) : 1 ♂, 85 km SE Lilongwe Dedza, 17.-19.XII.2001, leg. J. Halada.

***Dasyproctus simillimus kenyanus* LECLERCQ 1990 9 ♀ ♀, 12 ♂ ♂**

K e n y a : 1 ♀, (Tsavo) Tai Hills, Wundanyi, 19.-21.XI.1996, leg. Mi. Halada; 5 ♀ ♀, 8 ♂ ♂, Taita

Hills, Wundanyi, 5.-10.IV.1997, leg. Ma. Halada; 3♀, 3♂, Taita Hills, Wundanyi, 18.-22.III.1997, leg. Ma. Halada. In most specimens all tergites are black!

***Dasyproctus westermanni rhodesiensis* ARNOLD 1926 3♀**

K e n y a : 1♀, Voi (Tsavo) env., 8.-18.XI.1996, leg. Mi. Halada; 1♀, Voi (Tsavo), 23.III.-4.IV.1997, leg. Ma. Halada. Z i m b a b w e : 1♀, 100 km S Bulawayo Ante lope, 6.XII.1998, leg. Ma. Halada. Pygidial area of these females is broadly rounded. Z i m b a b w e : 1♀, 30 km W Harare, 29.XI.1998, leg. Ma. Halada. Pygidial area of this female is pointed.

***Entomognathus* DAHLBOM 1844 78♀, 147♂**

***Entomognathus bidentatus* (ARNOLD 1927) 3♀, 4♂**

R e p u b l i c o f S o u t h A f r i c a : 3♀, 3♂, West Cape, Ashton (Robertson), 26.X.1999, leg. Ma. Halada; 1♂, Eastern Cape, 7 km S Cradock, 25.I.2000, leg. J. Halada.

***Entomognathus brevis* (VANDER LINDEN 1829) 41♀, 82♂**

A l g e r i a : 2♂, Bouira, 12.-14.VI.1971, leg. Hoffer & Horak. B u l g a r i a : 1♀, Slancav Brjag, 18.VII.1968, leg. Kocourek; 1♂, Slancev Brjag, 18.-30.V.1989, leg. J. Halada. C r o a t i a : 3♂, Istria, Laborika, 20.VII.2002, leg. Ma. Halada. I t a l y : 2♀, Sicilia, Madonie, 4 km E Collesano, 600m, 15.VI.2002, leg. J. Halada; 1♀, Sicilia, 60 km N Agrigento, 31.IV.-1.VI.2002, leg. J. Halada; 1♂, 40 km S Udine, 28.VI.2002, leg. J. Halada; 1♂, 55 km E Trapani, Castellamare env., 9.-12.VI.2002, leg. J. Halada. K a z a k h s t a n : 3♀, 1♂, Issik 3 km S, 22.-23.VI.1992, leg. J. & M. Halada; 2♀, 2♂, Vanovka 80 km E Djambul, 30.VI.1992, leg. Jirousek; 1♀, Ryn-peski, 12 km S Urda, 3.VI.2001, leg. Miatleuski; 1♀, Kuyuk, 40 km Sbl Djambul, 1.VII.1992, leg. M. Halada; 1♂, SE Tchilik env., 20.VI.1992, leg. J. Halada; 1♂, Aralsor salt lake env., 8.VI.2001, leg. Miatleuski. K i r g i z i y a : 2♀, E Terskei Mt. R. Arashan, 2000m, 42°28'N 78°32'E, 23.VIII.1999, leg. Zonstein; 4♀, 2♂, Kirgiziya Mts, Ala Archa riv., Kashka-Suu, 1650m, VII.2000, leg. Gurko; 1♀, 1♂, Kirgiziya Mt.R., Ala Archa riv., Ooru-Say, 1650m, VII.2000, leg. Gurko; 1♀, 2♂, E Terskei Mt. R., Arashan, 2000m, 42°28'N 78°32'E, 23.VIII.1999, leg. Makogoniva & Zonstein; 2♀, 7♂, Tash-Arik, 11 km E Talas, 4 VII.1992, leg. M. Halada; 1♀, 5♂, Kirgiziya Mt. R., Malinovka, 1650m, 10.V.2000, leg. Gurko; 1♀, Terek-Sai, 41.5°N 71.1°E, 7.VI.1995, leg. Mucka; 1♀, 1♂, Fergharskyi Mts., Toskol-Ata, 1200m, 1 VIII.2001, leg. Gurko; 2♂, Kirgiziya Mt. R., Ala Archa riv., Uzum-Bulat, V.2000, leg. Gurko; 3♂, Bishek reg., Malinovka, 1500m, VI.2000, leg. Gurko; 1♂, Kaskasu, 27 km S Bishek, 30.VII.2000, leg. Makogoniva; 1♂, Ferghan Mt. R., Alash-Too Mts, Alas forest, VIII.2000, leg. Gurko; 1♂, Osh area, 25 km S Osh Aravan, VI.2000, leg. Gurko; 1♂, Afleatum env., 41.6°N 71.6°E, 1.-3.VI.1995, leg. J. Halada; 1♂, Tashatkai Mt. R., Shikaltar, VII.2001, leg. Gurko; 1♂, Frunze, 15 km S Cin-Arik, 8.VII.1981, leg. Kocourek. M o r o c c o : 1♂, 10 S Rich, 22.V.1995, leg. Ma. Halada. R o m a n i a : 1♀, W Turnu Severin Dubova, 24.V.2002, leg. Ma. Halada; 1♀, 15 km N Resita, 28.V.2002, leg. M. Halada. S e r b i a : 1♀, NE Pozarevac, 20.VI.2002, leg. Snizek. S p a i n : 1♂, Murcia, 25 km SW Cartagena, 12.V.2003, leg. J. Halada. S y r i a : 6♂, 20 km NE Latakia, 25.V.1996, leg. Ma. Halada. T a d z h i k i s t a n : 1♀, 2♂, Tashkent 40 km E Circik, 4.VII.1981, leg. Kocourek. T u r k m e n i a : 1♂, Aschabad env., 15.V.1993, leg. M. Halada; 1♂, Aschabad env., 10.VI.1993, leg. M. Halada. U k r a i n e : 1♀, 4♂, Khmeinitzka dist., Dunayevets reg. Makov, 14.VI.2002, leg. Gurko. U z b e k i s t a n : 3♀, 7♂, Czirczik, 41.1°N 69.1°E, 28.V.1994, leg. J. Halada; 1♀, 6♂, Aktash, 41.2°N 69.4°E, 70 km NE Tachkent, 27.V.1994, leg. J. Halada. The remaining specimens come from the Czech Republic (7♀, 12♂) and Slovakia (1♀).

***Entomognathus brevisculus* (GUSSAKOVSKIJ 1952) 7 ♀ ♀, 16 ♂ ♂**

T a d z h i k i s t a n : 5 ♀ ♀, 10 ♂ ♂, Nurek (dam), 7.-10.VI.1990, leg. J. & M. Halada; 1 ♀, 5 ♂ ♂, Nurek, 10.VI.1990, leg. Halada. U z b e k i s t a n : 1 ♂, Samarkand env., 19.-21.V.1994, leg. Ma. Halada.

***Entomognathus dentifer* (NOSKIEWICZ 1929) 2 ♀ ♀, 3 ♂**

M o r o c c o : 1 ♀, 10 km S Rich, 22.V.1995, leg. Ma. Halada. U k r a i n e : 1 ♀, 1 ♂, Crimea, Simpheropol, Anatra, V.2000, leg. Gurko. U z b e k i s t a n - o r . : 2 ♂ ♂, Aktash, 41.2°N 69.4°E, 70 km NE Tachkent, 27.V.1994, leg. Ma. Halada.

***Entomognathus euryops* (KOHL 1899) 8 ♀ ♀, 12 ♂ ♂**

T u n i s i a - N W : 8 ♀ ♀, 12 ♂ ♂, 10 km N Jendouba, 19.IV.2001, leg. M. Halada.

***Entomognathus euryops* (KOHL 1899) variation 1 ♀**

Anterior margin of the clypeus convex with 3 coneshaped teeth. M o r o c c o : 1 ♀, Foug Anagame, 40 km SE Zagora, ca. 1000m, 5°40'W 30°06'N, leg. J. Gusenleitner.

***Entomognathus fortuitus* (KOHL 1915) 6 ♂ ♂**

S p a i n : 6 ♂ ♂, 20 km SW Murcia, Sierra de Espanula, 11.V.2003, leg. J. Halada.

***Entomognathus jacoti* LECLERCQ 1997 1 ♀**

Z a m b i a - N W : 1 ♀, 60 km W Solwezi, 4.-6.I.2003, leg. J. Halada.

***Entomognathus libanonis* (KOHL 1905) 5 ♂ ♂**

I r a n - N : 2 ♂ ♂, Kashan env., 3.V.1999, leg. K. Deneš sen. S y r i a - N W : 1 ♂, 20 km NE Latakia, 25.V.1996, leg. Ma. Halada. T u r k m e n i a : 1 ♂, Aschabad env., 10.VI.1993, leg. M. Halada; 1 ♂, Aschabad env., 15.V.1993, leg. M. Halada.

***Entomognathus malianus* LECLERCQ 1997 3 ♀ ♀, 9 ♂ ♂**

K e n y a - S E : 3 ♀ ♀, 2 ♂ ♂, Voi (Tsavo), 23.III.-3 IV.1997, leg. Ma. Halada; 3 ♂ ♂, Voi (Tsavo) env., 8.-18.XI.1996, leg. Mi. Halada; 2 ♂ ♂, Voi (Tsavo), 11.IV.-14.VI.1997, leg. Ma. Halada; 1 ♂, Voi (Tsavo) env., 22.XI.-2.XII.1996, leg. Mi. Halada.

***Entomognathus patricius* (ARNOLD 1932) 1 ♂**

K e n y a : 1 ♂, Voi (Tsavo) env., 8.-18.XI.1996, leg. Mi. Halada.

***Entomognathus rochei* LECLERCQ 1997 1 ♀, 2 ♂ ♂**

M a l a y s i a - W : 1 ♀, 2 ♂ ♂, Ipoh, 5 km E Tanjong Rambutan, 3.-15.IV.2000, leg. Snizek.

***Entomognathus rugosissimus* R. TURNER 3 ♀ ♀**

Z i m b a b w e : 2 ♀ ♀, Mavhuradonha Saf. A., 15 km SE Muzarabani, 17.XII.1998, leg. M. Halada; 1 ♀, 30 km W Harare, 29.XI.1998, leg. J. Halada.

***Entomognathus schmiedeknechti* (KOHL 1905) 5 ♀ ♀**

B u l g a r i a : 4 ♀ ♀, Slancev Brjag, 28.VI.-14.VII.1971, leg. Padr; 1 ♀, Slancev Brjag, 5.-15.VI.1977, leg. Padr. S y r i a : 1 ♀, 20 km NE Latakia, 25.V.1996, leg. Ma. Halada.

***Entomognathus stevensoni* (ARNOLD 1926) 6 ♀ ♀, 1 ♂**

K e n y a : 1 ♀, Voi (Tsavo), 23.III.-4.IV.1997, leg. Ma Halada; 2 ♀ ♀, Voi, 10.XII.1999, leg. Snizek; 1 ♂, Lodwar, 20.XII.1995, leg. Snizek. R e p u b l i c o f S o u t h A f r i c a : 1 ♀, North West, 50 km S Kimberley Ritchie, 22.I.2000, leg. J. Halada; 1 ♀, North West, 20 km W Bothaville, Klerksdorp Vaal Riv., 31.I.2001, leg. Snizek. Z i m b a b w e - E : 1 ♀, 40 km S Chipinge, Mt. Selinda, 13.XII.1998, leg. M. Halada.

***Entomognathus srianus* LECLERCQ 1997 1 ♂**

S r i L a n k a - m e r . - c e n t r . : 1 ♂, Matara distr., 3 km NW Kotapola, 4.-8.XII.1995, leg. S. Becvar.

***Entomognathus subnasutus* (ARNOLD 1927) 1 ♂**

Z a m b i a - N W : 1 ♂, 50 km W Chingola, 1.-2.I.2003, leg. J. Halada.

***Entomognathus verecundus* (ARNOLD 1932) 1 ♂,**

Z i m b a b w e : 1 ♂, 50 km S Bulavwayo Matobo, 3.-5.XII.1998, leg. Ma. Halada.

Krombeinictus* LECLERCQ 1996 1 ♀**Krombeinictus nordenae* LECLERCQ 1996 1 ♀**

S r i L a n k a m e r . c e n t r . : 1 ♀, Matara distr., 3 km NW Kotapola, 4.-8.XII.1995, leg. S. Becvar.

Lindenius* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835 2805 ♀ ♀, 2815 ♂ ♂**Lindenius aegyptius* (KOHL 1888) 2 ♀ ♀**

J o r d a n - m e r . o c c . : 2 ♀ ♀, Petra, 14.V.1995, leg. Deneš sen.

***Lindenius affinis* KAZENAS 1973 5 ♀ ♀, 3 ♂ ♂**

T a d s h i k i s t a n : 3 ♀ ♀, 3 ♂ ♂, Vose 120 km SE Dushanbe, 12.-13.V.1991, leg. Halada.
T u r k m e n i s t a n : 1 ♀, Sandikatzi env., 3.-13.V.1993, leg. Deneš; 1 ♀, Kugit-Angtau mount. Koiten, 8.VI.1993, leg. M. Halada. These determinations are doubtful because male genitals do not agree with KAZENAS (1973: 290, fig. 8).

***Lindenius afghanus* LECLERCQ 1989 8 ♀ ♀**

K a z a k h s t a n : 2 ♀ ♀, Vanovka 80 km E Djambul, 30.VI.1992, leg. Jirousek & M. Halada.
K i r g i z i y a : 5 ♀ ♀, Afleatum env., 41.6°N 71.6°E, 1.-3.VI.1995, leg. J. Halada; 1 ♀, 10 km S San-Tzelek, 42°N 72°E, 5.VI.1995, leg. Mucka. Flagellum of these females complete black!

***Lindeni* *albilabris* (FABRICIUS 1793) 1789 ♀ ♀, 2222 ♂ ♂**

B u l g a r i a : 2 ♂ ♂, Plovdiv, 1.VII.1997, leg. Zaykov; 1 ♂, Trakia, Proslav, 30.VI.1996, leg. Zaykov; 1 ♂, Trakia, Proslav, 25.VII.1997, leg. Zaykov; 2 ♂ ♂, Trakia, Plovdiv, 1.VI.1996, leg. Zaykov; 2 ♂ ♂, Trakia, Voivodino, 5.IX.1996, leg. Zaykov; 1 ♂, Plovdiv, 5.VII.1997, leg. Zaykov; 1 ♂, Shumen, 5.VI.1997, leg. Zaykov; 1 ♂, s. planina, Beronovo, 28.VI.1996, leg. Zaykov; 1 ♀, 1 ♂, S. Plan. Beronovo, 10.VI.1997, leg. Zaykov; 1 ♂, Rodopi, Parvenez, 12.VI.1996, leg. Zaykov; 1 ♂, Rodopi, Galabovo, 25.VII.1997, leg. Zaykov; 1 ♂, Rodopi, Galabovo, 10.VI.1997, leg. Zaykov; 28 ♀ ♀, 37 ♂ ♂, Slancev Brjag, 1968-1972, leg. Kocourek; 18 ♀ ♀, 5 ♂ ♂, Slancev Brjag, 1971-1978, leg. Padr; 6 ♀ ♀, 11 ♂ ♂, Sandanski, 1967-1974, leg. Kocourek; 2 ♂ ♂, Melnik, 1966, leg. Kocourek; 1 ♂, Neseber, VIII.1970, leg. Kocourek; 1 ♂, Varvara, 6.-12.VIII.1970, leg. Kocourek; 1 ♂, Kresna, V1980, leg. Kocourek; 6 ♀ ♀, 4 ♂ ♂, Vlaha, 14.VIII.1993, leg. M. Halada; 2 ♀ ♀, 3 ♂ ♂, Melnik, 13.VIII.1993, leg. Kocourek; 1 ♂, Melnik, 23.-26.V.1983, leg. J. Halada; 2 ♀ ♀, Melnik, 25.VI.1978, leg. Padr; 1 ♂, Liljanovo, 7.VII.1966, leg. Hoffer; 1 ♀, 1 ♂, 1 ♀, 1 ♂, Rodopi, Backovo, 16.VII.1984, leg. J. Halada; 1 ♀, Rodopi, Zdravec, 5.VII.1997, leg. Zaykov; 1 ♀, Pirin, Liljanovo I, 300m, 7.-8.VII.1974, leg. Hoffer; 2 ♀ ♀, Mts. Pirin, Begovica, 13.VIII.1993, leg. M. Halada; 1 ♀, Sozopol, 8.-22.1981, leg. Polocek; 1 ♀, Arkuino, 1.VIII, 1965, leg. Padr; 1 ♀, Biser-Harmanli, 28.VI.1978, leg. Padr; 1 ♀, Rodopi, Cernoone, 22.VI.1984, leg. J. Halada; 1 ♀, Kresna-Pirin, V.1967, leg. Kocourek. **C r o a t i a :** 1 ♀, Istria, Laborika, 20.VII.2002, leg. M. Halada; 1 ♀, Makarska, 1.-10.VI.1990, leg. Deneš. **F i n l a n d :** 1 ♀, Helsinki, Villinki, 18.VII.1962, leg. Ranin; 1 ♀, Helsingin pitäjä, 16.VII.1967, leg. Ranin; 23 ♀ ♀, 10 ♂ ♂, Hirvensalmi, VII.1968, leg. Ranin; 5 ♂ ♂, Villinki, 18.-28.VII.1962, leg. Ranin. **F r a n c e :** 1 ♂, Sion, 8.VI.1959. **H u n g a r y :** 2 ♂ ♂, Vac, 15.VII.1999, leg. Deneš; 1 ♂, Nagylak, 17.VI.1993, leg. Bulirsch; 1 ♀, Bez. Szolnok, Tiszafüred, 28.VIII.1992, leg. Tiefenthaler. **I t a l y :** 21 ♀ ♀, 48 ♂ ♂, Emilia Romagna, 60 km N Ravenna, 8.VII.2000, leg. J. Halada; 1 ♀, 1 ♂, Capri, 30.VI.1972, leg. Padr; 5 ♀ ♀, 3 ♂ ♂, 30 km N Ravenna, 8.VII.2000, leg. J. Halada; 3 ♂ ♂, Südtirol, Vinschgau, Schluderns, 1000m, 30.VII.1992, leg. Tiefenthaler; 1 ♂, Südtirol, Vinschgau, Schluderns, 1500m, 23.VII.1996, leg. Tiefenthaler; 13 ♀ ♀, 6 ♂ ♂, 40 km S Udine, 26.VI.2002, leg. J. Halada; 1 ♀, Dolomiti, N Trento, 7.VII.1999, leg. J. Halada. **K a z a k h s t a n :** 244 ♀ ♀, 246 ♂ ♂, Alma Ata, 1.VI.1994, leg. M. Halada; 134 ♀ ♀, 55 ♂ ♂, 10 km E Djambul, 31.V.1994, leg. M. Halada; 13 ♀ ♀, 162 ♂ ♂, Fabritchny, 40 km E Alma Ata, 23.VI.1992, leg. M. Halada & Jirousek; 5 ♀ ♀, 31 ♂ ♂, Fabritchny, 40 km E Alma Ata, 9.VII.1992, leg. Jirousek; 30 ♀ ♀, 151 ♂ ♂, Issik 3 km S, 22.-23.VI.1992, leg. Deneš & J. Halada; 17 ♀ ♀, 21 ♂ ♂, Alma-Ata, 25.VI.1992, leg. Deneš; 5 ♀ ♀, 25 ♂ ♂, Tal-di-Kurgan, 200 km NE Tcherkaskoe, 27.VI.1992, leg. M. Halada; 6 ♀ ♀, 10 ♂ ♂, Vanovka, 80 km E Djambul, 30.VI.1992, leg. M. Halada; 8 ♀ ♀, 2 ♂ ♂, lake Alakol Kotuma, 22.VI.1995, leg. J. Halada; 6 ♀ ♀, 1 ♂, lake Alakol Kotuma, 22.VI.1995, leg. Mucka; 2 ♂ ♂, ridge Malaysari, 144 km N Alma Ata, 29.VI.1992, leg. M. Halada; 1 ♂, River Ili, Aidarli, 14.VI.1992, leg. Deneš; 1 ♀, 1 ♂, Chagir, 40 km S Aris, 42.2° N 68.8° E, 6.V.1994, leg. J. Halada; 1 ♀, 1 ♂, Lugovoe, 150 km W Djambul, 7.VII.1992, leg. M. Halada; 7 ♀ ♀, 1 ♂, Darbara, 40 km N Tachkent, 30.V.1994, leg. M. Halada; 13 ♀ ♀, 1 ♂, SE Tchilik env., 20.VI.1992, leg. Deneš; 1 ♂, Uzunagacz, 50 km NW Alma Ata, 43.7°N 76.3°E, 30.V.1994, leg. Deneš; 1 ♀, 3 ♂ ♂, Issyk 1756m, Zailij, Ala Tau, 29.V.1974, leg. Deneš; 1 ♀, 3 ♂ ♂, Alma Ata 35 km W, Aksaj, 16.VI.1981, leg. Kocourek; 2 ♀ ♀, 1 ♂, Alma Ata 30 km W, Aksaj, 16.VII.1981, leg. Kocourek; 1 ♂, Aksaj, Alma Ata env., 30.V.1974, leg. Deneš; 6 ♀ ♀, 5 ♂ ♂, Alma-Ata env., Ala Tau, Alma Arasan, 3000m, 30.V.1988, leg. Padr; 3 ♀ ♀, 5 ♂ ♂, Dzambul env. 30 km, Golovovcenka (r.Assa), 31.V.1980, leg. Padr; 5 ♀ ♀, 3 ♂ ♂, Alma-Ata env., Axaj, 29.V.1980, leg. Kocourek; 2 ♀ ♀, 1 ♂, Dzambul env., Kara Tau, prussyk Ujuk, 1000m, 3.VI.1980, leg. Padr; 2 ♀ ♀, 20 km SE Aksay env., 16.-19.VI.1992, leg. J. Halada; 1 ♀, Alma Ata, Medeo, 27.VI.1995, leg. J. Halada; 1 ♀, Djambul env. (60 km), Akir Tobe (pisky), 4.VI.1980, leg. Padr; 1 ♀, Kotumy-o, Kalaokol, 22.VI.1995, leg. Mucka. **K i r g i z i y a :** 1 ♀ ♀, 16 ♂ ♂, Ala-Buka, 41.5°N 71.2°E, 6.VI.1995, leg. J. Halada; 12 ♂ ♂, 10 km S San-Tzelek, 42°N 72°E, 5.VI.1995, leg. J. Halada; 49 ♀ ♀, 50 ♂ ♂, Arslanbad, 41.3°N 72.9°E, 12.-13.VI.1995, leg. Mucka & J. Halada; 8 ♀ ♀, 7 ♂ ♂, 10 km S San-Tzelek, 42°N 72°E, 5.VI.1995, leg. Mucka; 42 ♀ ♀, 61 ♂ ♂, Afleatum env., 41.5°N 71.6°E, 1.-3.VI.1995, leg. J. Halada; 12 ♂ ♂, Dzhahal-Abad area, Shamaldy-Say, VI.2000, leg. Gurko; 43 ♂ ♂, Dzhungol-Too, E-Seok riv., 1900m, VII.2000, leg. Gurko; 32 ♀ ♀, 37 ♂ ♂, Kirgiziya Mt. R. Ala Archa riv., Uzumbulat, V.2000, leg. Gurko; 20 ♀ ♀, 17 ♂ ♂, Kirgiziya Mts, Ala Archa riv., Kashka-Suu, 1650m, VII.2000, leg. Gurko; 19 ♀ ♀, 20 ♂ ♂, Alai Mt. R. Jkizak, Kok-Suu riv. bass., VII.2000, leg. Gurko; 5 ♀ ♀, 3 ♂ ♂, Ala-Buka, 41.5°N 71.2°E, 6.VI.1995, leg. Mucka; 3 ♀ ♀, 3 ♂ ♂, E-Terskei Mt. R.,

Arashan, 2000m, 42°28'N 78°32'E, 23.VIII.1999, leg. Makogonova; 1 ♂, Tchatkal Mt. R., Khodzha-Ata r., 41°50'N 71°56'E, 5.VII.2000, leg. Makogonova; 18 ♀♀, 56 ♂♂, Bishek reg., Malinovka, 1500m, VI.2000, leg. Gurko; 3 ♂♂, Dzaha-Abad area, Shamaldy-Say, VI.2000, leg. Gurko; 1 ♀, 1 ♂, Ohskaya Obl., Ferg. Khrebet NE Passhöhe Urumbash, 41°20'N 73°40'E, 2000m, 13.-15.VI.1995, leg. H. & R. Rausch, P. Ressler; 1 ♂, Ak-Suu riv., Tezskoy Alatau Mt. Teplokljuchenka vill., VI.1999, leg. Gurko; 2 ♀♀, 2 ♂♂, 40 km S Jani-Bazar, 41.7°N 71.1°E, 8.-11.VI.1995, leg. Mucka; 1 ♀, 2 ♂♂, Dzhalaï-Abadskaya Obl., Tschatkal-Geb., Tal NW Tschap-Tschuma-Pass, 41°33'N 70°45'52"E GPS, 2250m, 8.VI.1998, leg. H. & R. Rausch; 1 ♂, Kashkasu, 27 km S Bishkek, 30.VII.2000, leg. Makogonova; 14 ♀♀, 10 ♂♂, Kirgiziya Mt. R. Ala-Archa riv. Kashkasi, 1800m, 25.VII.1999, leg. Gurko; 61 ♀♀, 58 ♂♂, Kirghisky Mt. Rg., Malinovka, 1650m, 10.V.2000, leg. Gurko; 11 ♂♂, 10 km S Sari-Tzelek, 42°N 72°E, 5.VI.1995, leg. Mucka; 3 ♂♂, 20 km N Aravan, 40.3°N 72.5°E, 17.V.1994, leg. Ma. Halada; 1 ♀, 1 ♂, Terek-Sai, 41.5°N 71.1°E, 7.VI.1997, leg. Mucka; 1 ♂, Alma-Ata Medeo, 27.VI.1995, leg. J. Halada; 4 ♀♀, 5 ♂♂, Frunze env. (10 km), Con Arik, 24.-28.V.1980, leg. Padr; 1 ♀, 31 ♂♂, Dzaha-Abad area, Shamaldy-Say, VI.2000, leg. Gurko; 59 ♀♀, 55 ♂♂, Tash-Arik 11 km E Talas, 4.VII.1992, leg. M. Halada; 4 ♀♀, 13 ♂♂, Tal-di-Bulag, 90 km E Talas, 5.VII.1992, leg. M. Halada; 4 ♂♂, Talasskaya, District Karabura, Kirgisisches Geb., Tal des Nyldy 25 km NNW Talas, 42°40'N 72°10'E, 1750-1900m, 9.-12.VI.1996, leg. Rausch; 1 ♂, Narynskaya, Distr. Dzhungalsky, Nordteil des Sary-Kamysh-Gebirges, Tal des Flusses Kobuksu, 2300-2400m, 41°55'N 74°05'E, 4.-5.VII.1996, leg. Rausch; 6 ♀♀, Kirgiziya Mt. R., Ala-Archa riv., Uzun-Bulak, 1800m, VI.2000, leg. Gurko; 7 ♀♀, Kirgiziya Mt. R., Ala-Archa riv., Ooru-Say, 1600m, VII.2000m, leg. Gurko; 1 ♀, Dzhalaï-Abadskaya Obl., Tschatkal Geb., Tal NW Tschap-Tschyma-Pass, 41°33'N 70°45'52"E, GPS, 2250m, 8.VII.1998, H. & R. Rausch; 2 ♀♀, Frunze, 15 km S Cin-Arik, 8.VII.1981, leg. Kocourek; 1 ♀, Oshkaya, District Uzgen, Seren-Berge, Tchanget-Pass, zw. Tchanget u. Irisu, ca. 20-25 km N Uzgen, 40°58'N 73°20'E, 1550m, 19.VI.1996, leg. Rausch; 1 ♀, Pass Thuz-Achuu 42.5°N 74°E, 3000m, 29.V.1995, leg. J. Halada. M o l d a v i a : 2 ♀♀, 2 ♂♂, Kisinev env., VI.1995, leg. Pavlicok. M o n g o l i a : 3 ♀♀, Ulanbatar, Tuul riv. vall., 12.VII.2003, leg. J. Halada. R o m a n i a : 4 ♂♂, Wald Hagieni, SE Dobrogea, 70m, 15.VIII.1994, leg. Rakosy; 5 ♂♂, Moldova Noua, 27.V.2002, leg. M. Halada; 1 ♂, Moldova Noua, Pojejena, 26.V.2002, leg. Snizek; 1 ♀, 4 ♂♂, Brasov, Sacele, 650m, 18.VII.1994, leg. Szekely; 2 ♀♀, 1 ♂, Brasov, Mt. Piatra Mara, 900m, 31.VII.1994, leg. Szekely; 5 ♀♀, 1 ♂, Brasov, Sacele, Babaruca val., 900m, 29.VII.1994, leg. Szekely; 2 ♂♂, Filiasi, 13.V.1994, leg. Deneš; 2 ♂♂, Fizer-Transylv., 2.VIII.1968, leg. Padr; 1 ♀, Cozia W Turnu Severin, 26.V.2000, leg. M. Halada; 2 ♀♀, Dobrogea Carnarua Fetti, 1994, leg. Szekely; 2 ♀♀, unreadable. R u s s i a n F e d e r a t i o n : 3 ♀♀, 1 ♂, Siberia, Barnaul T Jagun 130 km, 4.-7.VIII.1993, leg. Snizek; 1 ♂, Primorskij kray Pegrasnicnyj Sergejevska, 29.-31.VII.1990, leg. Snizek. S e r b i a : 1 ♀, Novi Sad, 8.VII.1968, leg. Padr. T u r k e y : 2 ♀♀, 3 ♂♂, 20 km E Gurun, Mezikaran Gecidi, 10.VIII.1997, leg. Ma. Halada; 3 ♂♂, 40 km N Muradye, 2200m, 5.VII.2000, leg. M. Halada; 1 ♀, 2 ♂♂, Bolu lake env., 21.VI.1993, leg. Mi. Halada & Jirousek; 1 ♂, Capadocia, Urgup, 13.VI.1998, leg. Ma. Halada; 2 ♀♀, 2 ♂♂, Sakarya, Karasu env., 28.VI.1998, leg. J. Halada; 1 ♀, 1 ♂, Kayseri, 12 km WNW Bunyan, 1300m, 31.VII.1992, leg. Lucas; 1 ♂, Porsuk, Baraji Sebran, 6.VII.1993, leg. Deneš; 1 ♂, 50 km S Kars Pasli, 1.VII.1997, leg. Ma. Halada; 1 ♀, Porsuk Baraji Sebran, 8.VII.1993, leg. Deneš; 2 ♀, Urgup (Nevsehir), 4.VII.1997, leg. Ma. Halada; 1 ♀, Zor Dagi, Sulucan env., 25.VI.1993, leg. Deneš; 1 ♀, 80 km SW Malatya Erkenek, 9.VII.1997, leg. Ma. Halada. U k r a i n e : 1 ♂, Caucasus Mts., 10 km SE Krasnaya Polyana, Aibga rng., VII.2000, leg. Gurko; 1 ♂, Caucasus Mts., 20 km NE Krasnaya Polyana, 1200m, VII.2000, leg. Gurko; 3 ♀♀, 8 ♂♂, Crimea, Simferopol Anatra, VII.2000, leg. Gurko; 1 ♂, Crimea, Simpheropol Anatra, 10.VIII.2000, leg. Gurko; 1 ♂, Crimea, Simferopol, 22.V.1997, leg. Gurko; 12 ♀♀, 1 ♂, Crimea, Jalta, 14.VII.1997, leg. Gurko; 3 ♀♀, 1 ♂, Crimea, Eupatoria, 10.VII.1997, leg. Gurko; 3 ♀♀, 1 ♂, Crimea, Eupatoria, 13.VII.2000, leg. Gurko; 1 ♀, 1 ♂, Crimea, Belogorst, 20.V.1997, leg. Gurko; 3 ♀♀, 1 ♂, Crimea, Pervomaisk, 20.VIII.1990, leg. Gurko; 1 ♂, Gajdary, 5.VII.1985, leg. Deneš; 2 ♀♀, 1 ♂, Rovas, 14.VII.1985, leg. J. & M. Halada; 1 ♀, Eupatoria, 1.VIII.1999, leg. Gurko; 1 ♀, Crimea, Simferopol, 26.VI.1993, leg. Gurko; 1 ♀, Crimea, Kerch, 30.V.1999, leg. Gurko; 1 ♀, Kiev reg., Kholyanovka, VII.2000, leg. Gurko; 1 ♀, Zaporezi, 5.VII.1985, leg. J. & M. Halada. U z b e k i s t a n : 26 ♀♀, 23 ♂♂, Aktas, 70 km NE Tachkent, 41.2°N 69.4°E, 27.V.1994, leg. Ma. Halada; 5 ♀♀, 14 ♂♂, Akcza, 20 km SW Angren, 41.1°N 70.0°E, 7.V.1994, leg. Ma. Halada; 20 ♀♀, 24 ♂♂, Samarkand env., 19.-21.V.1994, leg. J. Halada; 14 ♀♀, 27 ♂♂, Czirczik, 41.1°N 69.1°E, 28.V.1994, leg. J. Halada; 10 ♀♀, 4 ♂♂, 5 km W Ddjizak, 39.9°N 67.5°E, 23.V.1994, leg. J. Halada; 1 ♂, Vil. Tashkent,

Ugamisches Geb. 5 km WSW Pskem, 41°54'54"N 70°20'26"E GPS, 1250m, 17.-19.VI.1997, leg. H. & R. Rausch; 3 ♀♀, 2 ♂♂, Mt. Surenata, Tchatkal Mts., 1800m, 41°24'N 69°51'E, 15.VI.1997, leg. Zonstein; 2 ♀♀, Taschkent, Tschatkal-Geb., am Berg Surenata, 41°24'08"N 69°51'05"E GPS, 1550-1700m, 15.-17.VI.1997, leg. H. & R. Rausch; 1 ♀, Taschkent, Ugamisches Geb., 5 km WSW Pskem, 41°54'54"E 70°20'26"E GPS, 17.-19.VI.1997, leg. H. & R. Rausch; 1 ♀, Taskent env., Aktas, 15.V.1977, leg. Strejcek; 1 ♀, Yangikichlak, 40.3°N 66.9°E, 100 km NW Ddjizak, 25.V.1994, leg. J. Halada. The remaining specimens come from Austria (13 ♀♀, 9 ♂♂), the Czech Republic (374 ♀♀, 397 ♂♂), Germany (10 ♀♀, 1 ♂) and Slovakia (220 ♀♀, 198 ♂♂).

***Lindenius anatolicus* de BEAUMONT 1967 6 ♀♀, 9 ♂♂**

I r a n - c . : 1 ♀, Pasagrad env., 8.V.1999, leg. Deneš sen. J o r d a n - w . : 1 ♀, Jordan Valley Dayr Alla, 27.IV.1996, leg. Mi. Halada. S y r i a - n . : 1 ♀, Marbij, 9.V.1996, leg. Ma. Halada. T u r k e y : 1 ♀, Kuycak Adiyaman, 8.VI.1998, leg. Ma. Halada; 1 ♀, Bak Iragi (Develi), 16.VI.1998, leg. Ma. Halada; 1 ♀, Tuzlagozu (Baykan), 4.VI.1998, leg. Ma. Halada; 7 ♂♂, Saraykent env., 1300m, 70 km E Yozgat, 12.VI.2001, leg. Deneš jun.; 1 ♂, Halfeti, env., 3.-5.V.1994, leg. Deneš; 2 ♂♂, Prov. Burdur, N Bucak, 900m, 37°29'N 30°26'E, 24.V.1985, leg. Rausch.

***Lindenius crenicornis* MARSHAKOV 1973 4 ♀♀**

K a z a k h s t a n - m e r . : 1 ♀, Chagir, 40 km S Aris, 42.2°N 68.8°E, 6.V.1994, leg. Deneš. T u r k m e n i s t a n : 2 ♀♀, Kopet-Dag, Geok-Tepe 15 km S, 2.V.1993, leg. M. Halada; 1 ♀, Kopet-Dag, Kizil-Arvat 50 km S, Chajagala, 17.V.1993, leg. M. Halada.

***Lindenius crenulifer* (KOHLE 1905) 4 ♀♀, 1 ♂**

J o r d a n - N W : 1 ♀, North Shuna, 29.-30.IV.1996, leg. Ma. Halada. K i r g i z i y a - S W : 1 ♀, 20 km N Arawan, 40.3° N 72.5° E, 17.V.1994, leg. J. Halada; 1 ♂, Alai Mt. Ridge N-slope, Katta-Karakol riv., 39°52'N 73°22'E, 2600m, 22.VII.1998, leg. S. Zonstein. T u r k e y : 1 ♀, Kahramanmaras 40 km SE, 10.VI.1998, leg. Ma. Halada; 1 ♀, 30 km NW Gaziantep, 2001, leg. Snizek.

***Lindenius effrenus* (KOHLE 1915) 5 ♀♀, 2 ♂♂**

M o r o c c o : 1 ♀, 100 km S og Zagora Mhamid, 16.V.1997, leg. J. Halada. T u n i s i a : 3 ♀♀, 2 ♂♂, Kebili, 8.IV.2001, leg. M. Halada; 1 ♀, Tozeur, 7.IV.2001, leg. J. Halada.

***Lindenius guichardi* LECLERCQ 1989 3 ♀♀, 2 ♂♂**

M o r o c c o : 3 ♀♀, Beni-Basia, 60 km NE Boudnib, 21.V.1995, leg. Mi. Halada; 2 ♂♂, 30 km N Zagora, 15.V.1997, leg. J. Halada.

***Lindenius gussakovskii* MARSHAKOV 1973 20 ♀♀, 7 ♂♂**

K a z a k h s t a n - S : 1 ♀, Issik 3 km S, 22.-23.VI.1992, leg. J. Halada. K i r g i z i y a : 1 ♂, Tash-Arik 11 km E Talas, 4. VII.1992, leg. M. Halada. U z b e k i s t a n - o r . : 19 ♀♀, 6 ♂♂, Czirczik, 41.1°N 69.1°E, 28.V.1994, leg. J. Halada.

***Lindenius hamiger* (KOHLE 1915) 5 ♀♀, 2 ♂♂**

T a d z h i k i s t a n : 4 ♀♀, 2 ♂♂, Alajsijj chrebet, 2000m, Dzirgatal, 9.VI.1990, leg. J. & M. Halada. The mandibles of these males basally yellow. K i r g i z i y a - m e r . - w e s t . : 1 ♀, 20 km N Arawan, 40.3°N 72.5°E, 17.V.1994, leg. Ma. Halada. The **hitherto unknown female**

of this species is characterized by the following criteria: mandibles darkbrown, basal third part yellow, tooth on the inner surface small; median lobus of clypeus with two small rounded teeth in the middle (sometimes smelt) and two projecting teeth laterally; scapus completely yellow; thorax completely black; Vertex, scutum and mesopleura distinctly and coarsely punctated; propodeal enclosure coarsely striate; posterior furrow of Collare crenulated; episternalsulcus narrow and weakly crenulated; sternites not punctated. These criteria are exactly as in males! Pygidial area concave laterally; 6.5 mm. The female of *L. hamiger* differs from *Lindenius ibex* in the shape of clypeus, structure of propodeal enclosure and lacking punctation on sternites. It differs from *Lindenius panzeri* by only basally yellow spots on mandibles and a small tooth on inner surface of mandibles, the sharp of clypeus and a narrow episternal sulcus. In the key of LECLERCQ 1989 the female of *L. hamiger* runs to § 13 and should be separated at this point.

***Lindenius hamilcar* (KOHLE 1899) 1 ♀, 4 ♂♂**

M o r o c c o : 1 ♀, 2 ♂♂, 10 km E Guelmin, 15.-16.IV.1995, leg. Ma. & Mi. Halada; 1 ♂, 10 km S Taroudant, 12.IV.1995, leg. Ma. Halada; 1 ♂, Irherm, 20.IV.1990, leg. M. Halada.

***Lindenius hannibal* (KOHLE 1898) 11 ♀♀, 16 ♂♂**

M o n t e n e g r o : 1 ♂, Ulcinj, 16.VI.1969, leg. Hoffer. M o r o c c o : 2 ♀♀, 1 ♂, 30 km E Fes, Lot-Jormu, 8.V.1997, leg. J. Halada; 4 ♀♀, 5 ♂♂, Bhalil, 10 km NW Sefrou, 28.V.1995, leg. Ma. & Mi. Halada; 2 ♀♀, 6 ♂♂, El-Menzel, 30 km E Sefrou, 29.V.1995, leg. Ma. Halada; 1 ♀, 5 km SE Azrou, 31.V.1995, leg. Ma. Halada; 1 ♀, 10 km N Agadir, 9°38'W 30°31'N, 24.IV.1996, leg. J. Gusenleitner; 1 ♂, Tissa env., 8.V.1997, leg. Deneš jun.; 1 ♂, Assa, Vada Draa, V.1997, leg. Mucka; 1 ♂, Taroudant, 22.IV.1990, leg. M. Halada. T u n i s i a : 1 ♀, Gafsa-oued 8 km SE, 20.V.1993, leg. Batelka.

***Lindenius hasdrubal* de BEAUMONT 1956 3 ♂♂**

T u n i s i a - n w : 3 ♂♂, 10 km S Nefza, 18.IV.2001, leg. M. Halada.

***Lindenius ibericus alticollis* de BEAUMONT 1956 48 ♀♀, 11 ♂♂**

M o r o c c o : 26 ♀♀, 3 ♂♂, 10 km N Rich, 23.V.1995, leg. Mi. Halada; 8 ♀♀, 2 ♂♂, 20 km N Missouri, 14.V.1995, leg. Ma. Halada; 4 ♀♀, 1 ♂, Ifkern 25 km E Boulemane, 24.-25.V.1995, leg. Ma. Halada; 3 ♀♀, 2 ♂♂, 30 km E Midelt, 13.V.1995, leg. Mi. & Ma. Halada; 5 ♀♀, Beni-Bassia, 60 km NE Boudnib, 21.V.1995, leg. Ma. & Mi. Halada; 2 ♀♀, 2 ♂♂, Ifrane, 1.-2.VI. 1995, leg. Ma. & Mi. Halada; 1 ♂, Talmest, 10.V.1995, leg. Ma. Halada.

***Lindenius ibex* (KOHLE 1883) 70 ♀♀, 38 ♂♂**

B u l g a r i a : 2 ♀♀, 2 ♂♂, Slancev Brjag, 16.-18.VI.1977, leg. Padr; 7 ♀♀, 4 ♂♂, Slancev Brjag, 5.-15.VI.1977, leg. Padr; 13 ♀♀, 15 ♂♂, Slancev Brjag, 28.VI.-14.VII.1971, leg. Padr; 2 ♀♀, 4 ♂♂, Slancev Brjag, 18.-30.V.1989, leg. J. Halada; 1 ♀, 5 ♂♂, Slancev Brjag, 10.VI.1972, leg. Kocourek; 2 ♂♂, Slancev Brjag, VI.1972, leg. Kocourek; 2 ♂♂, Nessebr, 28.VI.1982, leg. Kocourek; 8 ♀♀, 1 ♂, Lozenec (Carevo), 23.VI.1998, leg. Ma. Halada; 3 ♀♀, 1 ♂, Micuria/Brodilovo, 20.VI.1988, leg. Tkalčú; 1 ♂, Micuria, plaz Balgarka, 15.VIII.1988, leg. Tkalčú; 3 ♀♀, Slancev Brjag, 20.VII.-5.VIII.1965, leg. Padr; 1 ♀, Ropotamo, 7.VII.1977, leg. Karas; 1 ♀, Achtopol, 21.VI.1988, leg. Tkalčú; 1 ♀, Kalliakra, 3.VII.1978, leg. Padr. S l o v a k i a : 1 ♂, Velky Kamenec, 14.VII.1975, leg. Padr. S y r i a - S : 2 ♀♀, 30 km S Suwayda Dibbin, 15.-17.V.1996, leg. Ma. Halada; 2 ♀♀, Salkhad, 6.V.1996, leg. Ma. Halada; 1 ♀, Salkhad env., 6.V.1996, leg. Mi. Halada. T u r k e y : 8 ♀♀, Agri env., 27.VI.1993, leg. Deneš; 3 ♀♀, Van Town bor., 28.VI.1993, leg. Mi. Halada; 4 ♀♀, 30 km N Silifke Uzuncabure, 28.V.1996, leg. Ma. Halada; 2 ♀♀, 30 km N Kutahya, 13.VI.2000, leg. M. Halada; 2 ♀♀, 20 km E Gurun Mezikiran Gecidi, 10.VII.1997, leg. Ma. Halada; 1 ♀, Kuzuçebelen Mersin, 28.V.1998, leg.

Ma. Halada; 1 ♀, 15 km E Malatya, 27.VI.2000, leg. M. Halada; 1 ♀, N Sivas, 8.VII.2000, leg. M. Halada; 1 ♀, 40 km E Mut Cornelek, 29.V.1996, leg. Ma. Halada.

ad *Lindeni* *ibex* (KOHLE 1883) variation 48 ♀ ♀

In these females mandibles are nearly completely yellow and yellow pattern on legs and collare is much developed. This causes difficulties for identification of this species by using common keys as already mentioned de BEAUMONT (1967: 356)!

Turkey: 28 ♀ ♀, 10 km S Sirmak, 6.VI.1998, leg. Ma. Halada; 11 ♀ ♀, 15 km E Malatya, 27.VI.2000, leg. M. Halada; 9 ♀ ♀, 25 km E Malatya, 8.VII.1997, leg. Ma. Halada.

Lindeni *ibex syriacus* (KOHLE 1905) 20 ♂ ♂

In the males of this subspecies the flagellum is not as broadened as in *L. ibex* s.str. Metatarsus of foreleg is regular, not broadened. In females of the examined material I could not find differences according to this subspecies. Maybe *L. ibex syriacus* is a variation as KOHLE (1915: 292) mentioned.

Syria: 1 ♂, Salkhad, 6.V.1996, leg. Ma. Halada; 1 ♂, Faouar 33°13'N 35°55'E, 6.V.2001, leg. Plass.
Turkey: 11 ♂ ♂, Agri env., 27.VI.1993, leg. Mi. Halada; 3 ♂ ♂, 20 km E Gurun Mezikiran Gecidi, 10.VII.1997, leg. Ma. Halada; 1 ♂, Horasan 18 km E Delibaba, 25.VI.1993, leg. Mi. Halada; 1 ♂, Porsuk Baraji Sebran, 8.VII.1993, leg. Jirousek; 1 ♂, Karadut Nemrut Dag, 9.VI.1998, leg. Ma. Halada; 1 ♂, Prov. Antalya, Bademli Gec, 1400m, 37°20'N 31°44'E, 12.VI.1985, leg. Rausch.

Lindeni *iranicus* LECLERCQ 1975 24 ♀ ♀, 13 ♂ ♂

Jordan: 1 ♂, Ailun S Anjara, 27.IV.2004, leg. Snizek. Syria: 1 ♀, 50 km SE Suwayda Anata, 20.-21.V.1996, leg. Ma. Halada; 2 ♂ ♂, Salkhad env., 6.V.1996, leg. Ma. & Mi. Halada.
Turkey: 7 ♀ ♀, 4 ♂ ♂, 40 km E Mut, Cornelek, 29.V.1996, leg. Ma. Halada; 3 ♀ ♀, 40 km E Mut, Cornelek, 18.VI.1997, leg. Ma. Halada; 1 ♀, 60 km E Mut, Kirobasi, 19.VI.1997, leg. Ma. Halada; 4 ♀ ♀, 4 ♂ ♂, Capadocia, Urgup, 13.VI.1998, leg. Ma. Halada; 2 ♀ ♀, N Akseki, 19.VI.1998, leg. Ma. Halada; 1 ♀, 1 ♂, Kahraman Maras 40 km SE, 10.VI.1998, leg. Ma. Halada; 1 ♀, Porsuk Baraji Sebran, 8.VII.1993, leg. Deneš; 1 ♀, 15 km W Refahye, W Erzincan, 1600m, 7.VII.2000, leg. M. Halada; 1 ♀, Taskesigi, 100 km E Antalya, 1998, leg. Ma. Halada; 1 ♀, Agri env., 27.VI.1993, leg. Mi. Halada; 1 ♂, Halfeti env., 3.-5.V.1994, leg. Mi. Halada; 1 ♀, Pr. Mardin, E Midyat, 25.V.1983, leg. Schacht.

Lindeni *laevis* A. COSTA 1871 220 ♀ ♀, 101 ♂ ♂

Bosnia: 1 ♂, Shipovo, 2.VII.1977, leg. M. & J. Hladiovi. Bulgaria: 63 ♀ ♀, 44 ♂ ♂, Slancev Brjag, VII.1968, leg. Kocourek; 12 ♀ ♀, 6 ♂ ♂, Slancev Brjag, 28.VI.-14.VII.1971, leg. Padr; 1 ♂, Trakia, Proslav, 15.VIII.1996, leg. Zaykov; 2 ♀ ♀, 1 ♂, Stara Zagora, 15.V.1996, leg. Zaykov; 8 ♀ ♀, 17 ♂ ♂, Lozenec (Carevo), 23.VI.1998, leg. Ma. Halada; 1 ♂, Varvara, 6.-12.VIII.1970, leg. Kocourek; 3 ♀ ♀, Rodopi Galabovo, 25.VII.1997, leg. Zaykov; 1 ♀, Rodopi Studenec, 15.VII.1997, leg. Zaykov; 1 ♀, Slancev Brjag, 18.-30.V.1989, leg. J. Halada; 8 ♀ ♀, Sofia 30 km W, 12.VIII.1993, leg. M. Halada; 1 ♀, Slancev Brjag, 20.VII.-5.VIII.1965, leg. Padr; 2 ♀ ♀, Rakytnica, VII.1969, leg. Deneš; 1 ♀, Slancev Brjag, VII.1964, leg. Hrubant. Croatia: 1 ♀, Istria, Umag env., 30.-31. (?) 1996, leg. J. Halada. Hungary: 1 ♀, 2 ♂ ♂, Budapest, VII.1969, leg. Deneš; 3 ♀ ♀, 1 ♂, Balatonakali, 6.VIII.1985, leg. Karas. Italy: 1 ♀, 40 km S Udine, 26.VI.2002, leg. Jifi Halada; 1 ♀, Emilia Romana, 60 km N Ravena, 8.VII.2000, leg. J. Halada. Moldova: 2 ♀ ♀, Kisnev env., VI.1995, leg. Pavlicok. Turkey: 1 ♂, 40 km N Muradye, 2200m, 5.VII.2000, leg. M. Halada. Ukraine: 1 ♀, 1 ♂, Zaporezi, 5.VII.1985, leg. Deneš; 1 ♀, Simpheropol, 12.VII.1999, leg. Gurko; 2 ♀ ♀, Simpheropol Anatra, VII.2000, leg.

Gurko; 1 ♀, Crimea, 18 km E Partizanskoe, 11.V.2000, leg. Gurko; 1 ♀, Zaporezi, 5.VII.1985, leg. Pavlicok. The remaining specimens come from Austria (2 ♀ ♀, 1 ♂), the Czech Republic (11 ♀ ♀, 1 ♂) and Slovakia (90 ♀ ♀, 24 ♂ ♂).

***Lindenius latitarsis* MARSHAKOV 1973 3 ♀ ♀, 13 ♂ ♂**

Turkey: 1 ♀, E Erzurum, 2000m, 6.VII.2000, leg. M. Halada; 1 ♀, 6 ♂ ♂, 40 km NE Muradye, 2200m, 5.VII.2000, leg. M. Halada; 1 ♀, 5 ♂ ♂, Zor Dagi, Sulucan env., 23.VI.1993, leg. Mi. Halada; 2 ♂ ♂, Zor Dagi, Sulucan env., 25.VI.1993, leg. Deneš.

***Lindenius luteiventris* (A.MORAWITZ 1866) 14 ♀ ♀, 5 ♂ ♂**

Morocco: 1 ♀, Ifrane, 1.-2.VI.1995, leg. Mi. Halada; 1 ♀, 10 km N Rich, 23.V.1995, leg. Mi. Halada; 1 ♀, Tissa env., 8.V.1997, leg. Deneš jun.; 2 ♂ ♂, Ifrane env., 17.V.2003, leg. M. Halada. Tunisia: 10 ♀ ♀, 3 ♂ ♂, 20 km S Tabarka, 16.-17.IV.2001, leg. M. Halada; 1 ♀, 3 km S Neftza, 36°55'N 08°55'E, 19.V.1982, leg. Hüttinger.

***Lindenius melinopus* (KOHL 1915) 4 ♀ ♀, 1 ♂**

Morocco: 1 ♀, Ifrane env., 17.V.2003, leg. M. Halada. Spain: 1 ♀, Pr. Hualva, Riv. d. Tamujoso W Canals, 200m, 8.-13.IV.1982, leg. Schacht; 1 ♂, Andalusia, Sierra Filabres, 9 km E Albalchez, 23.IV.2003, leg. J. Halada; 1 ♀, Andalusia, Sierra Alhamilla, 5 km E Nijar, 20.IV.2003, leg. J. Halada. Tunisia - NW: 1 ♀, 20 km S Tabarka, 16.IV.2001, leg. M. Halada.

***Lindenius mesopleuralis* (F. MORAWITZ 1890) 41 ♀ ♀, 23 ♂ ♂**

China-c.: 30 ♀ ♀, 13 ♂ ♂, Xiexian, 34.8°N 111.6°E, Zhongtiao Shan mt., 22.-24.V.1996, leg. J. Halada. Italy: 1 ♀, Toscana, Isl. Orbetello, 6.VIII.1999, leg. J. Halada. Kazakhstan: 2 ♀ ♀, lake Alakol, Koktuma, 22.VI.1995, leg. Mucka. Romania: 5 ♀ ♀, 7 ♂ ♂, Mamaia, 20.VIII.1972, leg. Deneš. Slovakia-mer./occ.: 1 ♂, Malacky, 5.VII.1994, leg. Deneš. Turkey-east: 1 ♀, 1 ♂, 20 km W Van, 5.VII.1997, leg. Ma. Halada. Turkmenistan: 1 ♀, Gasan-Kuli, 29.IV.1993, leg. J. Halada; 1 ♀, 1 ♂, Sandikatzi env., 3.-15.V.1993, leg. Deneš.

***Lindenius pallidicornis* (F. MORAWITZ 1890) 3 ♀ ♀, 1 ♂**

Kazakhstan-mer.: 2 ♀ ♀, 10 km E Djambul, 31.V.1994, leg. Ma. Halada. Uzbekistan-or.: 1 ♀, Aktash, 41.2°N 69.4°E, 40 km NE Tashkent, 27.V.1994, leg. Ma. Halada. The **hitherto unknown male** of *Lindenius pallidicornis* is similar to *Lindenius satschouanus* and differs from this species by the following criteria: Forelegs: trochanter with a long spine as in *L. satschouanus*, femora similar to this species but there is no distinct dent on it. Tibiae normal, not short and deformed as in *L. satschouanus*.

The key of LECLERCQ 1989: 427 should be modified as follows:

- § 2 Pattes I curieusement modifiées, notamment tibia avec une longue pilosité suivie d'une échancrure préapicale, fémur avec une petite dent, trochanter avec une longue dent; voir TSUNEKI (1972: 153, fig. 15-20) et MARSHAKOV (1975: 328, fig. 9-13, 4,5 mm). Asie..... *L. satschouanus*
 - Pattes I tibiae normales, trochanter avec une longue dent. 5 mm. Asie *L. pallidicornis*
 - Pattes I normales 3

Armenia: 1 ♂, Gechar, 10.VI.1988, leg. S. Becvar.

***Lindenius panzeri* (VANDER LINDEN 1829) 71 ♀♀, 35 ♂♂**

B u l g a r i a : 1 ♂, Sandanski, 14.VIII.1993, leg. M. Halada; 2 ♀♀, 1 ♂, Slancev Brjag, VI.1972, leg. Kocourek; 1 ♀, Vlahi, 14.VIII.1993, leg. M. Halada; 1 ♀, Trakia, Proslav, 15.VIII.1996, leg. Zaykov; 1 ♀, Slancev Brjag, VIII.1968, leg. Kocourek. F r a n c e : 1 ♀, Provence, Montagne de Lure, Lauzon-Tal bei Cruis, 500m, 6.-8.VI.1981, leg. Schacht; 1 ♂, Provence, Montagne de Lure, Lauzon-Tal bei Cruis, 500m, 16.VI.1981, leg. Schacht. I n d i a : 1 ♂, Kashmir, Jammu, Inshan, 2300-2500m, ca.33°33'N 75°30'E, 17.VII.1980, leg. Rausch. K a z a k h s t a n : 1 ♂, Talas Mt.R., 3 km W Dzhabagly, 42°26'N 69°58'E, 5.VIII.2000, leg. Makogonova. K i r g i z i y a : 1 ♂, Kirzigiya Mts., Ala Archa riv., Kashka-Suu, 1650m, VII.2000, leg. Gurko; 1 ♀, 10 km S Sari-Tzelek, 72°-42°, 5.VI.1995, leg. Mucka. M o n g o l i a : 3 ♀♀, Ulanbatar, Tuu riv. vall., 12.VII.2003, leg. J. Halada. R o m a n i a - S W : 1 ♀, W Deva, 23.V.2002, leg. M. Halada. R u s s i a n F e d e r a t i o n : 1 ♀, Tuvinskaya, Saryg, 23.VI.1994, leg. Kletecka. T a d z h i k i s t a n : 1 ♀, Tashkent 40 km E Circik, 4.VII.1981, leg. Kocourek. T u r k e y : 6 ♂♂, 40 km N Muradije, 2200m, 5.VII.2000, leg. M. Halada; 3 ♂♂, 20 km W Van, 5.VII.1997, leg. Ma. Halada; 1 ♂, Van Town bor., 28.VI.1993, leg. Deneš; 1 ♀, 2 ♂♂, Agri env., 27.VI.1993, leg. Jirousek; 1 ♀, Sultan Daglary Yalvac env., 5.VII.1993, leg. Jirousek. T u r k m e n i s t a n : 1 ♂, Aschabat 40 km W Firyuza, 6.VI.1993, leg. M. Halada. The remaining specimens come from Austria (1 ♀), Czech Republic (40 ♀♀, 6 ♂♂), Germany (2 ♂♂) and Slovakia (15 ♀♀, 7 ♂♂).

***Lindenius parkanensis* ZAVADIL 1948 12 ♀♀, 3 ♂♂**

B u l g a r i a : 2 ♀♀, Sinemorec (Ahtopol), 22.VI.1998, leg. Ma. Halada; 1 ♀, Plovdiv, 9.VII.1969, leg. Karas. K a z a k h s t a n : 2 ♀♀, lake Alakol, Koktuma, 22.VI.1995, leg. Mucka; 1 ♀, lake Alakol, Koktuma, 22.VI.1995, leg. J. Halada. R o m a n i a : 2 ♀♀, Mamaia, 29.VIII.1972, leg. Deneš. T u r k e y : 4 ♀♀, 3 ♂♂, Porsuk Baraji Sebran, 8.VII.1993, leg. Deneš.

***Lindenius peninsularis* (KOHLE 1915) 3 ♀♀, 1 ♂**

S p a i n : 2 ♀♀, 1 ♂, 20 km N Almeria, 3.V.2003, leg. M. Halada; 1 ♀, Murcia, 30 km E Cartagena, Mar Minor, 13.V.2003, leg. J. Halada.

***Lindenius pygmaeus* (ROSSI 1794) 134 ♀♀, 126 ♂♂**

These specimens include *Lindenius pygmaeus algirus* KOHL 1892. I could not find constant criteria to separate them from the nominate species.

F r a n c e : 1 ♀, Provence, Montagne de Lure, Lauzon-Tal bei Cruis, 500m, 16.VI.1981, leg. Schacht. I t a l y : 1 ♂, Molise 10 km S Termoli, 24.VIII.1997, leg. J. Halada. K i r g i z i y a : 1 ♀, Kizil-Kiya, 40.2°N 72.1°E, 15.V.1994, leg. Ma. Halada. M o r o c c o : 36 ♀♀, 13 ♂♂, 10 km E Guelmin, 5.V.1995, leg. Ma. Halada; 10 ♀♀, 7 ♂♂, 10 km E Guelmin, 15.-16.IV.1995, leg. Ma. & Mi. Halada; 47 ♀♀, 4 ♂♂, 10 km N Rich, 23.V.1995, leg. Ma. Halada; 19 ♂♂, 30 km N Zagora, 15.V.1997, leg. J. Halada; 2 ♀♀, 3 ♂♂, Beni-Bassia, 60 km NE Boudnib, 21.V.1995, leg. Mi. Halada; 3 ♂♂, 5 km S Tata, 3.V.1995, leg. Ma. Halada; 2 ♀♀, 2 ♂♂, Icht 100 km E Bouzakame, 4.V.1995, leg. Ma. Halada; 1 ♀, 2 ♂♂, Taroudant, 22.IV.1990, leg. M. Halada; 1 ♀, 2 ♂♂, Tiznit Oued Massa, 8.V.2003, leg. Snizek; 1 ♂, Tagounite, 60 km S Zagora, 23.V.1995, leg. Mi. Halada; 1 ♂, Oued Massa Tiznit, 8.V.2003, leg. M. Halada; 1 ♂, 10 km N Rich, 23.V.1995, leg. Mi. Halada; 1 ♀, 20 km S Taroudant, 12.IV.1995, leg. Mi. Halada; 2 ♀♀, 40 km E Taroudant Aoulouz, 17.V.1997, leg. J. Halada; 1 ♀, Amouguer 40 km W Rich, 23.V.1995, leg. Mi. Halada; 2 ♀♀, Aoulou env., 17.V.1997, leg. Deneš jun.; 1 ♀, 40 km S Guercif, 15.-17.V.1995, leg. Ma. Halada; 1 ♀, Tamri 70 km N Agadir, 8.V.1995, leg. Mi. Halada. S p a i n : 1 ♂, E Figueres, 2.V.2003, leg. M. Halada; 6 ♀♀, Costa Brava, Platja de Aro, 8.-14.IX.1991, leg. Benes. S y r i a : 1 ♀, Faouar (UN-Camp), 950m, 33°13'N 35°53'E, 1.X.2001, leg. Plass; 1 ♀, Faouar (UN-Camp), 950m, 33°13'N 35°53'E, 24.IX.2001, leg. Plass. T u n i s i a : 1 ♀, Nefta, 8.-9.IV.1998, leg. Deneš jun.; 1 ♂, 20 km E Tabarka, 17.IV.2001, leg. M. Halada. T u r k e y : 9 ♀♀, 21 ♂♂, Bitlis, Nemrut Dag, 2000m, 16.VIII.1991, leg. M. Halada; 3 ♂♂, Bitlis, Nemrut Dag, 2300m,

15.VIII.1991, leg. M. Halada; 3 ♀♀, 23 ♂♂, 20 km W Van, 5.VII.1997, leg. Ma. Halada; 4 ♂♂, Tatvan Van G., 1.VII.2000, leg. M. Halada; 2 ♂♂, Van Town bor., 28.VI.1993, leg. Deneš; 3 ♀♀, 5 ♂♂, Seydisehir Konya, 1800m, 4.VIII.1991, leg. M. Halada; 1 ♀, 1 ♂, Agri env., 27.VI.1993, leg. Jirousek; 1 ♂, Eregli, 13.VII.1997, leg. Ma. Halada; 2 ♂♂, Zelve (Nevsehir), 12.VII.1997, leg. Ma. Halada; 1 ♂, 10 km N Muradya, 27.VI.1997, leg. Ma. Halada; 1 ♂, 10 km E Ercis, Van Golu, 25.VI.1997, leg. Ma. Halada; 1 ♂, Seydisehir, Teke Gec., VII.2000, leg. Snizek.

***Lindenius pygmaeus armatus* (VANDER LINDEN 1829) 204 ♀♀, 36 ♂♂**

B o s n i a : 1 ♂, Budva-Crna Gora Becici, 22.VII.1967, leg. Padr. B u l g a r i a : 1 ♂, Slancev Brjag, VI.1970, leg. Pospisil; 13 ♀♀, 2 ♂♂, Slancev Brjag, VII.1968, leg. Kocourek; 5 ♀♀, 1 ♂, Slancev Brjag, 4.VIII.1968 leg. Kocourek; 1 ♂, Slancev Brjag, 23.VII.1968, leg. Kocourek; 1 ♂, Primorsko, 25.VII.1979, leg. Hoffer; 1 ♂, Sandanski, V.1967, leg. Kocourek; 5 ♀♀, 1 ♂, Vlazi, 14.VIII.1993, leg. M. Halada; 1 ♂, Albena, 18.-29.VI.1986, leg. J. & M. Halada; 2 ♀♀, Slancev Brjag, 28.VI.-14.VII.1971, leg. Padr; 1 ♀, Slancev Brjag, 10.VI.1972, leg. Kocourek; 1 ♀, Slancev Brjag, VI.1972, leg. Kocourek; 1 ♀, Slancev Brjag, 15.VIII.1970, leg. Kocourek; 1 ♀, Rodopi, Markovo, 9.IX.1996, leg. Zaykov; 1 ♀, Stara Kresna, 20.VI.1987, leg. J. Halada; 1 ♀, Neseber, VIII.1970, leg. Kocourek; 1 ♀, Sandanski, 28.V.1978, leg. Kocourek. C r o a t i a : 1 ♀, Istrie, Umag, env., 30.-31. (?) 1996, leg. J. Halada. I t a l y : 3 ♀♀, Calabria, 15 km S Lokri, 1.-2.VIII.1999, leg. J. Halada. J o r d a n - E : 1 ♂, Azraq, 24.IV.1996, leg. Ma. Halada. K a z a k h s t a n - m e r : 3 ♀♀, 10 km E Djambul, 31.V.1994, leg. Ma. Halada; 1 ♀, Kaptzagai, 100 km N Alma Ata, 18.VI.1995, leg. J. Halada. K i r g i z i y a : 1 ♂, Alai Mt. Ridge N-Slope, Katta-arakol riv., 39°52'N 73°22'E, 2600m, leg. Zonstein. R o m a n i a - S W : 1 ♀, Restia, 2.VII.1999, leg. Snizek. S y r i a : 6 ♀♀, Faouar (UN-Camp), 950m, 33°13'N 35°53'E, 27.VIII.-1.X.2001, leg. Plass. T a d z h i k i s t a n : 2 ♀♀, Tashkent 40 km E Circik, 4.VII.1981, leg. Kocourek; 1 ♀, Nurek (dam), 7.-10.VI.1990, leg. J. & M. Halada. T u r k e y : 1 ♀, 1 ♂, Camardi (Nigde), 13.VII.1997, leg. Ma. Halada; 1 ♂, Tuzlagozu (Baykan), 4.VI.1998, leg. Ma. Halada; 1 ♀, 1 ♂, 20 km W Van, 5.VII.1997, leg. Ma. Halada; 3 ♀♀, 25 km E Malatya Kopeksitz, 8.VII.1997, leg. Ma. Halada; 1 ♀, 3 ♂♂, 10 km N Gercus, 5.VI.1998, leg. Ma. Halada; 1 ♀, Capadocia, Urgup, 13.VI.1998, leg. Ma. Halada; 3 ♀♀, 20 km W Mut, 14.VI.2000, leg. M. Halada; 1 ♀, Halfeti env., 3.-5.V.1994, leg. Mi. Halada; 1 ♀, Bitlis, Nemrut Dag, 2000m, 16.VIII.1991, leg. M. Halada; 5 ♀♀, Edremit, Ören, 39°33'N 27°02'E, 15.VIII.1987, leg. Dollfuss; 1 ♀, Pr. Hakkari, Sat Dag, Vargös SW Yüksekova, 1700m, 4.-8.1983, leg. Schacht. T u r k m e n i s t a n : 1 ♀, 1 ♂, Aschabat 40 km W Firyuza, 6.VI.1993, leg. M. Halada; 12 ♀♀, Aschabat 15 km N, 25.-31.V.1993, leg. M. Halada; 1 ♀, Aschabat 10 km W, 14.V.1993, leg. J. Halada; 1 ♀, Kopet Dag, Geok-Tepe 15 km S, 2.V.1993, leg. Schacht. U k r a i n e : 1 ♀, Crimea, Eupatoria, 26.VII.1999, leg. Gurko. U z b e k i s t a n : 2 ♀♀, Czirczik, 41.1° N 69.1° E, 28.V.1994, leg. J. Halada. The remaining specimens come from Czech republic (76 ♀♀, 20 ♂♂) and Slovakia (42 ♀♀).

***Lindenius sardashti* LECLERCQ 1975 1 ♀, 20 ♂♂**

This species is very similar to *L. ibex* (KOHL) but can be easily recognized by the form of the metatars of foreleg. The males of Syria in this material are characterized by variable yellow spots on tergites. From the same locality I have seen a female with yellow spots on tergites like in *Ectemnius*. This may be the hitherto unknown female of *L. sardashti* Leclercq. As I know, *L. sardashti* is the only species of *Lindenius* with yellow marks on the abdomen!

J o r d a n - N W : 1 ♂, North Shuna, 29.-30.IV.1996, leg. Ma. Halada. S y r i a - S : 1 ♀, 5 ♂♂, 50 km SE Suwayda Anata, 20.-21.V.1996, leg. Ma. Halada. T u r k e y : 3 ♂♂, 25 km E Malatya Kopeksiz, 8.VII.1997, leg. Ma. Halada; 3 ♂♂, 15 km E Malatya, 27.VI.2000, leg. M. Halada; 8 ♂♂, 10 km SW Sirmak, 6.VI.1998, leg. Ma.Halada.

***Lindenius satschouanus* (KOHL 1915) 5 ♀ ♀, 1 ♂**

Flagellum of females completely black. **K a z a k h s t a n - o r .** : 1 ♀, 1 ♂, River Ili Aidarli, 14.VI.1992, leg. Deneš. **T u r k m e n i s t a n** : 2 ♀ ♀, Sandikatzi env., 3.-13.V.1993, leg. J. Halada; 2 ♀ ♀, Tzardjou 40 km N Denev, 9.VI.1993, leg. M. Halada.

***Lindenius spilostomus* (KOHL 1899) 8 ♀ ♀**

S p a i n : 1 ♀, Sevilla, 11.V.1991, leg. Snizek. **T u n i s i a** : 3 ♀ ♀, 20 km E Tabarka, 17.IV.2001, leg. M. Halada; 1 ♀, Gafsa, 6.IV.2001, leg. M. Halada; 1 ♀, Kairouan, 3.VI.2001, leg. M. Halada; 1 ♀, M'saken, 20.-21.IV.1998, leg. Deneš jun.; 1 ♀, 10 km N Jendouba, 9.IV.1981, leg. J. Gusenleitner.

***Lindenius subaeneus* LEPELETIER & BRULLÉ 1835 31 ♀ ♀, 66 ♂ ♂**

In these males from Turkey the pygidial area is narrow and long, sides on distal half are nearly parallel!
F r a n c e : 1 ♀, 1 ♂, 10 km S Carcassone, 85 km SW Toulouse, 18.V.2003, leg. J. Halada.
K a z a k h s t a n - W : 3 ♀ ♀, Ryn-peski, 12 km S Urda, 3.VI.2001, leg. Miatleuski.
T u r k e y : 14 ♀ ♀, 47 ♂ ♂, 40 km NE Muradye, 2200m, 5.VII.2000, leg. M. Halada; 6 ♀ ♀, 8 ♂ ♂, E Erzurum, 2000m, 6.VI.2000, leg. M. Halada; 1 ♀, 20 km E Gurun Mezikaran Gecidi, 10.VII.1997, leg. Ma. Halada; 3 ♀, 1 ♂, Urgup, Capadocia, 13.VI.1998, leg. Ma. Halada; 2 ♀, Agri env., 27.VI.1993, leg. Jirousek; 1 ♀, 3 ♂ ♂, 50 km S Kars Pasli, 1.VII.1997, leg. Ma. Halada; 3 ♂ ♂, Sedisehir Teke Gec., VII.2000, leg. Ma. Halada; 1 ♂, 20 km SE Horasan Delibaba, 3.VII.1997, leg. Ma. Halada; 1 ♂, N Akseki, 19.VI.1998, leg. Ma. Halada; 1 ♂, Zor Dagi Sulucan env., 25.VI.1993, leg. Mi. Halada; 1/, Porsuk Baraji Sebran, 8.VII.1993, leg. Deneš.

***Lindenius* sp. 1 ♀**

This female is characterized by the following criteria: Omaulus is missing; mandibles dark brown; median lobe of clypeus broad, lateral obtuse-angled; episternal furrow narrow; propodeal enclosure striated; pygidial area laterally concave; 5.0 mm.

This may be the hitherto unknown female of *Lindenius tingriensis* LECLERCQ 1989.

T u r k e y : 1 ♀, Agri env., 27.VI.1993, leg. Mi. Halada.

***Lindenius* sp. 1 ♀**

This female is characterized by a weakly crenulated hyposternaulus; the median lobe of clypeus is broad and obtuse, laterally without distinct teeth; mandibles black; propodeal enclosure coarsely reticulated; mesonotum and mesopleures coarsely punctated; 6.5 mm.

S y r i a - N E : 1 ♀, Hasake, 8.V.1996, leg. Ma. Halada.

***Lindenius* sp. 1 ♂**

This male is characterized by the following criteria: flagellomeres broadened beneath; mandibles completely black; median lobe of clypeus broad, lateral with projecting teeth; distal half of metatarsus II broadened; propodeal enclosure basally reticulate, posteriorly nearly smooth; tergites VI and VII laterally with long erected hairs; 5.0 mm.

T u r k e y : 1 ♂, Tuzlagozu (Baykan), 4.VI.1998, leg. Ma. Halada.

***Lindenius* sp. 32 ♀ ♀**

These females are similar to *Lindenius hannibal* (KOHLE 1898) but differ by the following criteria: flagellum completely black; mesopleuron only weakly striated horizontally or not striated at all; scutum and scutellum distinctly striated longitudinally; basitarse III not broadened; 3.5-5.0 mm.

J o r d a n - N W : 5 ♀ ♀, North Shuna, 29.-30.IV.1996, leg. Ma. Halada.

S y r i a - S W : 5 ♀ ♀, 30 km N Dara Nawa, 18.V.1996, leg. Ma. Halada. T u r k e y : 16 ♀ ♀, Kahraman Maras, 40 km SE, 10.VI.1998, leg. Ma. Halada; 2 ♀ ♀, 30 km NW Gaziantep, 2001, leg. Snizek; 2 ♀ ♀, Tuzlagozu (Baykan), 4.VI.1998, leg. Ma. Halada; 2 ♀ ♀, 25 km E Malatya Kopeksiz, 8.VII.1997, leg. Ma. Halada.

The following 26 ♂ ♂ could not be named:

J o r d a n - N W : 8 ♂ ♂, North Shuna, 29.-30.IV.1996, leg. Ma. Halada. S y r i a - S W : 1 ♂, 30 km N Dara Nawa, 18.V.1996, leg. Ma. Halada. T u r k e y : 16 ♂ ♂, Kahraman Maras 40 km SE, 10.VI.1998, leg. Ma. Halada; 1 ♂, Tuzlagozu (Baykan), 4.VI.1998, leg. Ma. Halada. Probably all these males belong to the females from the same localities mentioned above!

Odontocrabro* TSUNEKI 1971 3 ♀ ♀**Odontocrabro orthodoxus* HENSEN 1989 3 ♀ ♀**

T u r k e y - S : 3 ♀ ♀, Halfeti (Birecik), 30.V.1998, leg. M. Snizek.

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Zusammenfassung

8123 Crabroninae von folgenden Gattungen wurden untersucht: *Arnoldita* PATE 1948, *Crossocerus* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835, *Entomognathus* DAHLBOM 1844, *Dasyproctus* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835, *Krombeinictus* LECLERCQ 1996, *Lindenius* LEPELETIER de SAINT FARGEAU & BRULLÉ 1835 und *Odontocrabro* TSUNEKI 1971.

Alle Informationen über Fundorte werden gegeben, jedoch von häufig gefundenen Arten nur die Fundstellen außerhalb von Zentraleuropa.

Die bisher unbekanntenen Weibchen von *Crossocerus quinlani* LECLERCQ 1989 und *Lindenius hamiger* (KOHLE 1915), sowie das bisher unbekanntene Männchen von *Lindenius pallidicornis* (F. MORAWITZ 1890) werden beschrieben.

References

- BEAUMONT J. de (1967): Hymenoptera from Turkey, Sphecidae 1. — Bull. Brit. Mus. (Nat. Hist.) Ent. **19**: 253-382.
- DOLLFUSS H. (2001): The Sphecoid Wasps of the Genus *Pemphredon* LATREILLE 1756, of "Biologiezentrum Linz" Collection in Linz, Austria (Hymenoptera, Sphecidae). — Linzer biol. Beitr. **33** (1): 269-273.

- DOLLFUSS H. (2004a): The Pemphredoninae Wasps of "Biologiezentrum Linz" Collection in Linz, Austria (Hymenoptera, Apoidea, Crabronidae). — *Linzer biol. Beitr.* **36** (1): 105-129.
- DOLLFUSS H. (2004b): The Crabroninae Wasps of "Biologiezentrum Linz" – Collection in Linz, Austria (Hymenoptera, Apoidea, Crabronidae), Part 1. — *Linzer biol. Beitr.* **36** (2): 761-784.
- KAZENAS V.L. (1973): A new species of the genus *Lindenius* (Hymenoptera, Sphecidae) from the South-East Kazakhstan. — *Zoologicheskii Zhurnal* **52**: 289-290.
- KOHL F. F. (1915): Die Crabronen der paläarktischen Region. — *Ann. Naturhist. Hofmus. Wien* **29**: 1-288, 289-453.
- LECLERCQ J. (1989): En vue d'une monographie du genre *Lindenius* LEPELETIER & BRULLÉ (Hymenoptera, Sphecidae, Crabroninae). — *Bulletin Société Royale Sciences de Liège* **58**: 419-444.

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