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The Sphecid Wasps of the genus *Cerceris* LATREILLE, 1802 of the "Biologiezentrum Linz"–Collection in Linz, Austria, from the Oriental Region (Hymenoptera, Apoidea, Crabronidae)

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A b s t r a c t : A total of 870 specimens of the genus *Cerceris* LATREILLE (123♀♀, 341♂♂) including 27 species and 1 subspecies were examined. All information of localities, dates of capture and the names of the collectors are listed.

K e y w o r d s : Apoidea, Crabronidae, Philanthinae, *Cerceris*

Introduction

I have received from the "Biologiezentrum Linz"-collection about 11.000 specimens of the genus *Cerceris* LATREILLE for determination. A lot of this material is already determined and published (DOLLFUSS 2018, 2019, 2020 in press). In this material there were also a lot of specimens from the Oriental Region. The specimens from Laos were difficult to determinate, there are many undescribed species in this material. Especially the males of *Cerceris* are very difficult to identify. A revision of the genus *Cerceris* of this region should be made. Due to my advanced age, it will be necessary to leave the study of this specimens to a younger entomologist.

The following literature was used for determination: KROMBEIN (1981, 1969), MAIDL (1926), REYES (1986, 1988), SCHLETTERER (1887), TSUNEKI (1961, 1963, 1968, 1970, 1992), TURNER (1912).

The *Cerceris* of the Nearctic and the Neotropical Region will be determined and published later.

Material examined

Subfamily P h i l a n t h i n a e LATREILLE, 1802

Tribe C e r c e r i n i LEPELETIER DE SAINT FARGEAU, 1845

Genus C e r c e r i s LATREILLE, 1802

***Cerceris bidentula* MAIDL, 1926** (7♀♀, 2♂♂)

L a o s : 1♀, 1♂, Bolikhamsai province, Ban Nape env., 350m, 18°20'N 105°08'E, 7.-16.V.2004, leg. Jendek & Sausa.

M a l a y s i a : 6♀♀, 1♂, Pahang, 30 km NE Raub, ~ 300m, Lata Lembik, ET, 3°56'N 101°38'E, IV.-V.2002, leg. Jendek & Sausa.

***Cerceris bifasciata* GUÉRIN MÉNEVILLE, 1835 (2♀♀, 2♂♂)**

I n d i a : 1♀, Assam, Guwahati, Guesthouse entlang Hauptstrasse, 26°09'25.5"N 91°40'14"E, GPS, 4.XI.1996, leg. E. Hüttinger; 1♀, Tamil Nadu, D: Viluparam, Auroville, Botanical Garden, 11.-31.V.2018, leg. local collector, on *Ziziphus mauritanium*.

I n d o n e s i a : 1♂, Java, Bogor, Botanical Garden, 250m, 21.IX.1960, leg. Hamann; 1♂, S-Sulawesi, Toraya-Land, Rautepao, Puncak, 1000m, 21.-24.II.1994, leg. Oehlke.

***Cerceris bituberculata* TSUNEKI, 1963 (1♀)**

N-V i e t n a m : 1♀, Bac Giang Province Tay Yen Tu, Nat. Res. Van Danh (Dong Ri), 21°09.965'N 106°49.557'E, 415m, 20.V.2015, leg. F. Creutzburg.

N o t e : This female is in the collection of F. Creutzburg, Germany.

***Cerceris carinalis* PÉREZ, 1905 (1♀)**

J a p a n : 1♀, Osaka env., 1958, leg.?

***Cerceris dissekta* (FABRICIUS, 1798) (1♀, 1♂)**

I n d i a : 1♂, Rajasthan, Ranakour, NW Udaiol, 25.10N 73.23E, 23.IV.2008, leg. Tiefenthaler.

N e p a l : 1♀, Nepalganj, 30.V.1997, leg. Creutzburg.

***Cerceris eumolpicida* KROMBEIN, 1981 (1♀, 2♂♂)**

I n d i a : 1♀, 2♂♂, Tamil Nadu D: Vilupparam, Auroville, Botanical Garden, 11.-31.V.2018, leg. local collector, on *Ziziphus mauritanium*.

N o t e : These specimens are in the collection of F. Creutzburg, Germany.

***Cerceris fortinata* CAMERON, 1902 (13♀♀, 21♂♂)**

L a o s : 1♀, 2♂♂, Province Hua Phan, Phon Pan, Ban Salei env., 20°13'30"N 103°59'26"E, 1350-1900m, 20.VI.2013, leg. Holzschuh & locals; Same locality and collectors: 1♀, 12.V.2011; 1♀, 3♂♂, 28.VI.2013; 1♀, 2♂♂, 27.VI.2013; 1♀, 2♂♂, 21.-22.VI.2013; 2♀♀, 2♂♂, 19.VI.2013; 2♀♀, 1♂, 4.VII.2013; 3♂♂, 2.VII.2013; 4♂♂, 29.VI.2013; 1♂, 4.-5.VII.2013; 1♂, 26.-27.IV.2013; 1♀, 28.-29.IV.2010; 3♂♂, Phongsaly province, Phongsaly env., ~1500m, 21°41.2'N 102°06.8'E. 28.V.-20.VI.2003, leg. Kubán.

N e p a l : 1♀, Janapur SE Charikot, Tamba-Koshi Khola, 900-1200m, 27.39N 86.03E, 5.-10.VI.1987, leg. Holzschuh; 1♀, 1♂, Kathmandu, Nagar Kot, 1800-2000m, 26.VI.1980, leg. Holzschuh; 1♀, Lamobagar, 1000-1400m, 28.V.-3.VI.1980, leg. Holzschuh; 1♂, Arun-Valley, Fussweg: Hedangnum, 1500-750-1100m, 26.V.1980, leg. Holzschuh.

N o t e : This species is similar to *Cerceris rybyensis* LINNAEUS (TURNER 1912: 801) and *Cerceris hortivaga* (TSUNEKI 1963: 27).

***Cerceris hexadonta* STRAND, 1913 (2♀♀)**

L a o s : 1♀, Province Hua Phan, Phou Pan, Ban Salei env., 20°13'30"N 103°59'26"E, 1350-1900m, 3.-5.IV.2014, leg. Holzschuh & locals.

N e p a l : 1♀, Tatopani, 1100-1400m, 12.-15.V.1984, leg. Holzschuh.

***Cerceris hilaris* F. SMITH, 1856 (1♂)**

N e p a l : 1♂, Jumla Flughafen, 29°16'25"N 82°11'32"E, 23.VI.1997, leg. Creutzburg.

***Cerceris kedahae* PAGDEN, 1934 (3♂♂)**

M a l a y s i a : 3♂♂, Pahang, Tanah, Rata, 1500m, 4°28'N 101°23'E, III.2013, leg Riha.

***Cerceris kirbyi* BINGHAM, 1897 (3♀♀)**

L a o s : 1♀, Province Hua Phan, Phou Pan, Ban Saleui env., 20°13'30"N 103°59'26"E, 1350-1900m, 2.VII.2013, leg. Holzschuh & locals; same locality and collectors: 1♀, 20.VI.2013; 1♀, 6.VI.2009.

***Cerceris latibalteata* CAMERON, 1904 (6♀♀, 7♂♂)**

L a o s : 1♀, Ua Phan province, Ban Salei, Phou Pan Mt., 20°13'30"n 103°59'26"E, 1350-1900m, 6.V.2011, leg. Holzschuh & locals; same locality and collectors: 1♀, 1♂, 4.V.2011; 1♀, 6.V.2011; 1♀, 10.V.2011; 1♀, 30.V.2011; 1♂, 5.V.2011; 1♂, 2.-3.V.2011; 1♂, 25.IV.2011; 1♂ 27.-28.IV.2011; 1♀, 21.IV.2012; 1♂, 16.IV.2012, 1♂, 17.VI.2013.

***Cerceris latidens* CAMERON, 1902 (1♂)**

I n d o n e s i a : 1♂, S-Sumatra, Lapung, 5 km SW Liwa, 600m, 5°4'S 104°04'E, 17.II.2000, leg. Hauck.

***Cerceris luchtii* VAN DER VECHT, 1964 (18♀♀, 12♂♂)**

L a o s : 3♀♀, Province Hua Phan, Phou Pan, Ban Saleui env., 20°13'30"N 103°59'26"E, 1350-1900m, 28.VI.2013, leg. Hozschuh & locals; same locality and collectors: 2♂♂, 28.V.2011; 1♂, 1.VI.2011; 2♂♂, 10.V.2011; 2♂♂, 8.V.2011; 1♂, 29.IV.2012; 1♂, 25.IV.2012; 1♀, 16.IV.2012; 1♀, 15.-16.V.2012; 1♀, 27.VI.2013; 2♂♂, 18.IV.2012; 1♀, 4.-5.VI.2013; 2♀♀, 2.VII.2013; 2♀♀, 4.VII.2013; 1♀, 3.-11.IV.2014; 1♂, 3.-5.IV.2014; 6♀♀, Phongsaly province, Phongsaly env., 21°41'-2°N 102°06'-8'E, ~1500m, 28.V.-20.VI.2003, leg. Kubán; 2♂♂, Hua Phan province, Ban Saleui, Phu Pan Mt. env., 1300-2000m, 6.-18.V.2004, leg. Kantner; 1♂, Hua Phan province, Phou Pan Mt., 2000m, 30 km S Xam Nena, 20°13'N 103°59'E, V. 2004, leg. P. Krezl.

N o t e : The gaster of these females is black, only segment I is basally yellow. Additionally, the pygidial area is basally narrower than apically.

***Cerceris luzonensis* CRAWFORD, 1910 (15♂♂)**

I n d o n e s i a : 15♂♂, Sulawesi-SE, Buton isl., South Lasalimu reg., VII.2005, leg. Jackl & locals.

N o t e : In these males the thorax is all black.

***Cerceris orientalis* F. SMITH, 1856 (3♀♀)**

L a o s : 1♀, Hua Phan province, Ban Saleui, Phou Pan Mt., 1350-1900m, 20°13'30"N 103°59'26"E, 30.V.2011, leg. Holzschuh & locals; same locality and collectors: 1♀, 10.V.2011; 1♀, 28.IV.2012.

***Cerceris pedetes* KOHL in SCHLETTERER, 1887 (4♀♀, 11♂♂)**

L a o s : 1♀, Province Hua Phan, Phou Pan Mt., Ban Saleui village, 20°13'30"N 103°59'26"E, 1350-1900m, 14.-16.VI.2009, leg. Holzschuh & locals; same locality and collectors: 1♂, 8.VI.2009; 1♂, 14.-18.IV.2010; 1♂, 25.-26.IV.2010; 1♂, 7.V.2011; 1♀, 1.VI.2011; 1♀, 17.VI.2013; 1♀, 20.VI.2013; 1♂, 15.VI.2013; 1♂, 20.VI.2013; 1♂, 29.VI.2013; 1♂, 2.VII.2013; 2♂♂, 4.VII.2013; 1♂, 4.-5.VII.2013.

***Cerceris pictiventris* DAHLBOM, 1845 (10♀♀, 32♂♂)**

I n d o n e s i a : 3♂♂, C-Sulawesi, Poso, 10 km SW Tambarana, 1-400m, 11.-16.IV.1999, leg. Becvár & Zábbransky; 1♀, Java, Kebun Raya, 22.XII.1960, leg. Mauis; 1♂, Java, Bogor, Botanical Garden, 250m, 13.I.1961, leg. Hamann; 3♂♂, Java, Westend Insel Pulau Pentjang, 26.VI.1959, leg. Hamann; 3♂♂, Sulawesi, Buton Isl., South Lasalimu reg., VII.2005, leg. Jakl.

M a l a y s i a : 1♀, 2♂♂, Pahang, 30 km NE Raub, Lata Lembik, ~ 300m, 3°56'N 101°38'E, IV.-V.2002, leg. Jendek & Sausa; 2♂♂, Ipoh, 5 km E Tanjong Rambutan, 3.-15.IV.2000, leg. Snizek.

T h a i l a n d : 6♀♀, Nan, ausserhalb des Mae Charim NP Einganges, 260m, 18°36'0"N 100°58'34"E, 15.+22.+24.V.2012, leg. E. & J. Hüttinger; 1♀, 1♂, Nan, Mae Charim NP, 18°36'4"N 100°59'2"E, 11.V.2012, leg. E. & J. Hüttinger; 1♀, Nan, ausserhalb des Mae Charim NP Einganges, 18°36'N 100°58'34"E, 260m, 14.V.2012, leg. E. & J. Hüttinger; same locality and collectors: 1♂, 10.V.2012; 2♂♂, 9.V.2012; 2♂♂, 8.V.2012; 1♂, Nan, ausserhalb Mae Charim NP Eingang, 18°36'N 100°58'34"E, 16.V.2012, leg. E. & J. Hüttinger; same locality and collectors: 1♂, 17.V.2012; 1♂, 14.V.2012; 4♂♂, N. Mae Hong Son province, Soppong env., 600m, 28.V.-2.VI.1999, leg. Riha; 1♂, Chumphon province, Pha To env., 1998, leg. Prudek & Sigut; 1♂, Phuket, XI.1987, leg. Heiss; 1♂, Pai, 19°18'0"N 98°28'0"E, 13.I.2003, leg. Plass.

***Cerceris pictiventris novarae* DE SAUSSURE, 1867 (1♀)**

L a o s : 1♀, 4♂♂, Khamouan province, Ban Khouan Ngeun, 250m, 18°07'N 104°29'E, XI.2000, leg. Jendek & Sausa.

***Cerceris protea* R. TURNER, 1912 (3♂♂)**

I n d i a : 3♂♂, Rajasthan, 60 km W Sawai Madhour, 26.11N 75.48E, 28.IV.2008, leg. Tiefenthaler.

***Cerceris sabulosa* PANZER, 1799 (1♀)**

P a k i s t a n : 1♀, Quetta, 5000', 2.-4.X.1972, leg. Heiss.

***Cerceris sobo* YASUMATSU & OKABE, 1936 (15♀♀, 35♂♂)**

L a o s : 1♀, Province Hua Phan, Phou Pan Mt., Ban Saleu village, 20°13'30"N 103°59'26"E, 1350-1900m, 3.-5.VI.2009, leg. Holzschuh & locals; same locality and collectors: 1♀, 11.IV.2010; 1♀, 12.V.2010; 1♂, 28.IV.2010; 2♀♀, 1♂, 10.V.2011; 1♀, 1♂, 12.V.2011; 1♀, 13.V.2011; 1♀, 21.V.2011; 1♂, 2.-3.V.2011; 1♂, 4.V.2011; 1♂, 8.V.2011; 1♂, 27.-28.IV.2011; 5♂♂, 24.IV.2011; 2♀♀, 20.V.2011; 1♀, 3.V.2012; 1♀, 10.-14.V.2012; 8♀♀, 19.IV.2012; 8♂♂, 22.IV.2012; 2♂♂, 20.IV.2012; 1♂, 23.IV.2012; 1♂, 21.IV.2012; 1♂, 16.IV.2012; 1♂, 11.-12.IV.2012; 1♂, 15.IV.2012; 11♀, 29.VI.2013; 1♀, 2.VII.2013; 1♀, 3.-5.IV.2014.

***Cerceris specifica* R. TURNER, 1912 (3♀♀, 139♂♂)**

L a o s : 1♀, Province Hua Phan, Phou Pan Mt., Ban Saleu village, 20°13'30"N 103°59'26"E, 1350-1900m, 6.VI.2009, leg. Holzschuh & locals; same locality and same collectors: 1♂, 27.-28.IV.2010; 1♀, 13.V.2011; 1♀, 1♂, 24.IV.2012; 1♀, 1♂, 18.VI.2013; 3♂♂, 22.IV.2012; 1♂, 7.V.2011; 1♂, 6.V.2011; 1♂, 27.-28.IV.2010; 1♂, 18.V.2011; 1♂, 8.V.2011; 1♂, 10.V.2011; 1♂, 13.IV.2012; 1♂, 16.IV.2012; 1♂, 25.IV.2012; 3♂♂, 4.VII.2013; 2♂♂, 28.VI.2013; 1♂, 2.VII.2013; 1♂, 21.-22.VI.2013; 1♂, 30.VI.-1.VII.2013; 4♂♂, 6.-11.IV.2014; 4♂♂, 3.-5.IV.2014; 1♂, 3.IV.-11.IV.2014; 1♂, 27.-28.IV.2014; 34♂♂, Phongsaly province, Phongsaly env., 21°41'-2°N 102°06'-8'E, ~1500m, 28.V.-20.VI.2003, leg. Vit. Kubán; 5♂♂, Hua Phan Province, Ban Saleui, Phu Pan Mt., 1500-2000m, 26.IV.-11.V.2001, leg. Bezdék; 1♂, Phongsaly province, Phongsaly env., 21°41'-2°N 102°06'-8'E, ~1500m, 20.VI.2003, leg. Vit. Kubán; 2♂♂, Hua Phan province, Phou Pan Mt., 30 km S Xan Neua, 20°13'N 103°59'E, 2000m, V.2004, leg. Krec; 1♂, Phongsaly province, Phongsaly env., ~1500m, 21°41'N 102°06'E, Vi.2003, leg. Pacholátko.

M a l a y s i a : 3♂♂, Pahang, Cameron Highlands, Tanah Rata, 1600m, II.2000, leg. Palátko; 3♂♂, Pahang, Cameron Highlands, Tanah Rata, 35 km SSE Ipoh, ~1500m, 4°28'N 101°23'E, 19.-31.III.2003, leg. Riha & Nemeč; 46♂♂, Pahang, Tanah Rata, 1500m, 4°28'N 110°23'E, III.2003, leg. Riha.

T h a i l a n d : 3♂♂, Mae Son province Soppong, 1500m, 19°27'N 98°20'E, 7.-12.V.1996, leg. Becvár; 2♂♂, Mae Hong Son province, pass near Soppong, 1500m, 19°27'N 98°20'E, 7.-10.V.1997, leg. Becvár jun. & sen.; 1♂, Loei province, Phu Rua.N.P., 1100m, 17°30'N 101°21'E, 6.-9-IV.1999, leg. Hauck; 1♂, Poei province, Phu Kradung N.P., 1300m, 16°53'N 101°47'E, 11.-15.V.1999, leg. Riha; 1♂, Mae Hong Son province, Muang Pai Resort, 730m, 19°23'N 98°23'E, 23.III.-4.IV.2011, leg. Hans Malicky.

***Cerceris trimaculata* MAIDL, 1926 (1♂)**

J a v a -W: 1♂, Janlapa b/Diasinga, 11.IX.1955, leg. Hamann.

***Cerceris umbinifera* MAIDL, 1926 (1♂)**

I n d o n e s i a : 1♂, Mana, Bengkulu distr. XI.2013, leg. Schacht.

***Cerceris violaceipennis* CAMERON, 1904 (12♀♀, 9♂♂)**

L a o s : 1♀, ♂, Province Hua Phan, Phou Pan Mt., Ban Saleui village env., 20°13'30"N 103°59'26"E, 1350-1900m, 11.V.2011, leg. Holzschuh & locals; same locality and collectors: 3♀♀, 10.V.2011; 1♀, 4.V.2011; 1♂, 10.V.2011; 1♂, 7.V.2011; 1♂, 8.V.2011; 1♂, 5.V.2011; 1♀, 29.IV.2012; 1♀, 5.V.2012; 1♀, 17.IV.2012; 1♀, 15.IV.2012; 1♀, 27.VI.2013; 1♂, 20.VI.2013; 1♂, 6.-11.IV.2014; 1♂ 3.-5.IV.2014; 1♀, 1♂, 19.-21.IV.2014.

N e p a l : 1♀, Kathmandu, SE Kathmandu, Pulchoki, 27°34'55"N 85°23'04"E, GPS, 1860-2500m, 23.IX.1993, leg. Hüttinger.

N o t e : In these females the shape of the free lamina of the clypeus is extremely variably.

***Cerceris vigilans* F. SMITH, 1856 (1♀)**

I n d i a : 1♀, Delhi, New Delhi (JNU), 270m, 28°32'34.4"N 77°10'06.7"E GPS, 12.VIII.1997, leg. Hüttinger.

***Cerceris vischnu* CAMERON, 1890 (4♀♀, 2♂♂)**

L a o s : 1♀, Province Hua Phan, Phou Pan, Ban Saleui env., 20°13'30"N 103°59'26"E, 1350-1900m, 6.VI.2013.

M a l a y s i a : 1♂, Perak, 25 km NE Ipoh, Banjaran Titi Wangsa Mts., ~1200m, 4°49'N 101°13'E, 6.-12.V.2001, leg. Riha.

T h a i l a n d : 3♀♀, Nan, ausserhalb Mae Charim NP Eingang, 260m, 18°36'00"N 100°58'33"E, 9.+10.+17.V.2012, leg. E. & J. Hüttinger; 1♂, Nan, Ban Mamwa, 8 km S Mae Charim, 260m, 18°38'30"N 101°0'40"E, 23.V.2012, leg. E. & J. Hüttinger.

***Cerceris vulcanica* VAN DER VECHT, 1964 (1♀)**

L a o s -S: 1♀, Ban Houaykong, 18.-30.IV.1999, leg. Sausa.

The following 58 specimens could not be named: India (1♀, 1♂), Laos (14♀♀, 42♂♂).

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Zusammenfassung

870 Exemplare der Gattung *Cerceris* LATREILLE (123♀♀, 341♂♂), 27 Arten und 1 Subspecies umfassend, wurden untersucht. Alle Informationen über Fundorte, Fangdaten sowie Namen der Sammler sind aufgelistet.

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