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A revision of *Othius* STEPHENS (Coleoptera, Staphylinidae). VIII. Further records, new species, and a new synonym.

V. ASSING

Abstract: A study of previously unrevised material yielded numerous additional data regarding the distribution and bionomics of 37 species of *Ofhius*, a genus which is here argued to represent a Palaearctic taxon and which now comprises approximately 100 species. The previously unknown male primary and secondary sexual characters of O. *turcmenus* FAUVEL, *O. loeffleri* SCHEERPELTZ, and *O. opacipennis* CAMERON are described and illustrated for the first time. Three species are described and distinguished from their respective closest relatives: O. *jumlaensis* sp. n. from Nepal, O. *svaneticus* sp. n. from the Caucasus region, and O. *bhutanensis* sp. n. from Bhutan. Their primary and secondary sexual characters are illustrated. An examination of the previously unavailable holotype of O. *loeffleri* SCHEERPELTZ resulted in the following synonymy: *Othius loeffleri* SCHEERPELTZ 1976 = *Othiogeiton nepalensis* SCHEERPELTZ 1976, syn. n.

Key words: Coleoptera, Staphylinidae, Staphylininae, Othiini, *Ofhius*, Palaearctic region, distribution, ecology, taxonomy, revision, new species, new synonym.

Introduction

The *Othizrs* species of the Palaearctic region have recently been revised in several steps (ASSING 1997a, 1997b, 1998a, 1998b, 1999; ASSING & SOLODOVNIKOV 1998; ASSMG & WUNDERLE 1995). Four species of *Othius* have been described from New Zealand, but a study of types and additional material revealed that they are not congeneric with the species from the Palaearctic region (ASSING in prep.). Therefore, the distribution of the genus may be considered Palaearctic. Strictly speaking, *Othizrs* is also present in the Oriental region (China, Taiwan), but here the species exclusively occur at higher altitudes, and, phylogenetically, they are of Palaearctic affiliations (ASSING 1999).

Since the previous revisions, abundant material has become available for study, which provided additional biogeographical and bionomic data. For the first time, it was possible to examine the males of O. *turcmenus* FAUVEL and *O. opacipennis* CAMERON, and to reconsider their phylogenetic relationships; three species are new to science. Moreover, based on an examination of the previously unavailable holotype of O. *loeffleri* SCHEERPELTZ, a new synonymy is established. Before the present paper, 95 Palaearctic species (with four subspecies) were known, not counting three species of uncertain status from China; for details see ASSING (1999). Including a species currently being described by SOLODOVNIKOV (in press) and the new taxa and synonymy established below, the figure now stands at 98.

Material and measurements

Material from the following public institutions and private collections was examined:

BMNH ..... The Natural History Miisciiiii. London (M. Brendell)
DEI ..... **Deutsches** Entomologisches Institut, Eberswalde (L. Zerche)
LMH ..... Niedersächsisches Landesmuseum Hannover (L. Schmidt)
MAKB ..... **Museum** Alexander Koenig, Bonn (T. Wagner)
MHNG ..... Muséum d'Histoire Naturelle, Genève (I. Löbl)
NHMB ..... Naturhistorisches Miisciiiii Basel, main collection and coll. Frey (D. Hurckliardi, E. Sprecher)
NHMW ..... Naturhistorisches Museum Wicii (H. Schillhammer)
NME ..... Naturkundemuseum Erfurt (M. Hartmann)
NMSG ..... Naturmuseum St. Gallen (T. Bürgin)
SMNS ..... Staatliches Musciiiii für Naturkunde in Stuttgart (W. Schawaller)
ZIN ..... **Zoological Institute,** St.-Petersburg **(V.I.** Gusarov, **A.** Solodovnikov)
ZSM ..... **Zoologische Staatssammlung** München (M. Baehr)
cAss ..... author's **private** collcciioii
cBli ..... Private cullcciiuii S. Illiiisiciii, Dortmund
cDro ..... Privaic collcciioii **U.** Drovenik, Ljubljana
cFel ..... Privaic cullcciiuii **U. Icldiiiaiiii.** Münster
cGar ..... Privaic cullcciioii R. Garcia Ilcccrra, La Palma
cHof ..... Private cullcciiuii E. Holzer, Anger
cKap ..... Privaic collection **A.** Kapp, **Rankweil**
cMac ..... Private cullcciioii **A.** Machado, La Laguna
cPoo ..... Privaic collcciioii P. Poot, Maastricht
cRou ..... Privaic cullcciioii G. **de** Rougemont, London
cSch ..... Privaic collcciioii M. Scliiilkc, Berlin
cSme ..... Private cullcciioii **A.** Smetana, Ottawa
cWun ..... Private collcciioii F. Wuiiderlc. Mönchengladbach

The measurements iii the descriptions are indicated iii mm and abbreviated as follows:

HW: **maximal head width**
HL: head Iciigili from front margin of clypeus to **neck**
PW: **maximal width of pronotum**
PL: length of pronotum **along** median line
EL: Iciigili of elytra from apex of scutellum **to** elytral hind margin
TiL: Iciigili **of** metatibiae (external aspect, from knee to insertion of first metatarsomere)
TaL: **Iciigili** of metatarsi (claws not included)
TL: **total Iciigili from apex of mandibles** to hind margin of tergum VIII.

Tlic spccics of *Othius*: new data on biogeography, bioiioiiiics and taxonomy

Below, previously unrevised material is listed; new data **on bioiioiiiics** and distributio are commented on. German records of *O. punctulatus* **(GOEZE),** *U. angustus angusti* **STEPHENS, and** O. ***subuliformis*** STEPHENS are **not** indicated, **as** these species are commc everywhere in Germany, and their bioiioiiiics have been studied in detail **(see ASSIN 1993, 1997b).**

Othius lapidicola MÄRKEL & KIESENWETTER

Finland: Id, Kittilä, leg. J. Sahlberg (NHMW); 1♀, 'Karislojo', Icg. J. Sahlberg (NHMW).

Russian Federation: 1♀, Murmanskaya Oblast', Umba, Icg. Levander (NHMW); Id, 1, Murmanskaya Oblast', Chavan'ga, leg. Edgren (NHMW); 1♂, Murmanskaya Oblast', Chapom leg. Edgren (NHMW); 1♂, Karel'skaya Resp., Solovetskiy Ostrava, leg. Levander (NHMW).

France: 3♂♂, 2♀♀, Hautes Alpes de Proveiicc, **Lac Allos, 2100-2250m, 4.VI.1974, leg.** Lo (MHNG); 1♀, **Hautes Alpes. Col de** Vars, **27.VII.1968** (MHNG); Id, 1♀, Hautes Alpes. Ft. Boscodon, **27.VII.1968** (MHNG); **2♂♂, 29♀. Haute** Savoie, S Lac **Roi, 1700m,** 30.VII.197 leg. **Löbl** (MHNG, **cAss); 4♂♂, 1♀, Haute** Savoic, Mi Semmoz, Crêt **de** Châtillon, 1650 **26.VI.1980. leg. Löbl** (MHNG. cAss); Id, 1♀, Haute Savoic, Roc d'Enfer, 1800-1850 **23.VIII.1978. leg. Löbl** (MHNG); **2♂♂, 29♀, Haute** Savoie, **Lac d'Anterne, 2060 6.VIII.1981, leg. Löbl** (MHNG); Id. **Haute** Savoie, Cornet d'Arêches, 1900m, **15.X.1981, le Löbl** (MHNG); **29♀, Alpes** Maritimes, **Le** Boréon, **22.VII.1956, leg.** Tempère (MHNG).

Ccriiisny: 3d♂, 49♀, Ihycni, LKr. Berchtesgaden, **Roßfeld, 1640m, 28.VI.1997,** leg. **Wolf (cSc cAss); 4♂♂, 49♀, same locality, 17.VIII.1998, leg.** Wolf (**cSch,** cAss); 1♀, Sachsen, Zwick (MAKB).

Switzerland: 1♂, Graubünden: Splügenpass, Räzünscher-Alpe, 1840m, ***Rhododendron*** litt **23.V.1997, leg.** Brandstetter **(cKap).**

Austria: **1♂, 1♀,** Großglockner (NHMB); **1♂,** Vorarlberg, **Riezlern, VI.-VII.1921, leg.** Wagn (NHMB); 1♀, Tirol, Wagrain, **Steinplatte, ca. 1450m, 6.VI.1996, leg.** Wolf (cSch); **2♂♂, 1** Tirol, Wolkenstein, leg. Ganglbauer (NHMW); 1♂, Tirol, **Ötz-Umhausen,** 8.X.1908, **leg. Kna** (NHMW); id, 1♀, Salzburg, Schafberg, **1902, leg.** Ganglbauer (NHMW); 1♀, Oberösterreic Hallstätter See, 1908, leg. Stöcklein (NHMB); 3d♂, Niedcriisicmicli, Reisalpe, leg. Winkl (NHMU); Id, Steiermark, Niedere **Tauern, 3.VII.1923, leg.** Stöcklein (NHMU); 1♀, **Kärnte** Karnische Alpen, Rattendorfer Alm, leg. Strupi (NHMW); 1♀, Karnische **Alpen,** Angerbacht. leg. Strupi (NHMW).

Italy: 3♂♂, **Piemonte, Val di Susa,** Colle di Finestre, **850m, iJ.IX.1997, leg.** Wolf (cSch); 5♂ **5♀♀, V.** d'Albergian, **1908, leg.** Ganglbauer (NHMW); Id. Fenestrelle, **1908, leg. Ganglbau (NHMW); 9♂♂, 2♀♀, Lombardia,** Mte. Grigna, Icg. Gaiiglbauer (NHMW); **2♂♂,** Lombard Mte. Legnone, **20.VI.1904, leg.** Pinker (NHMW); **1♂,** Trentino, Moiiic Pasubio, Rif. Pa **2.VII.1968** (MHNG); **1♀, Passo** di **Rolle, 1898, leg.** Gaiiglbauer (NHMW); 1♀, Mte. Stèlv **VIII.1872** (NHMW); **1♀,** Mte. Stèlvio (NHMW): **2♀♀,** Trentino, **Carezza** al Lago, **le** Ganglbauer (NHMW); **14d♂,** 10♀♀, **18 second-instar and 7** first-instar larvae, Trentino Trento, Mi. Uuiiduiie, Cima Palon, **2050m, peak** region, **11.VIII.1998, leg. Assing (cAss); 2♀ 2** first-instar larvae, Trentino, Madonna **di** Campiglio, NW **Rif. Pradalago, 2200-2300m,** litter ***Alnus viridis*, 10.VIII.1998,** leg. **Assing (cAss); 6♂♂, 3♀♀, 1** second-instar **larva,** Trentino, V di Non, NE Coredo, **Val di** Verdes, 1000m, **12.VIII.1998, leg. Assing (cAss); 1♀, Moiiie Bal** leg. **Lokay (MAKB); 7♂♂, 12♀♀,** Mte. **Pari (NHMW); 3♂♂, 3♀♀, Mte. Pari, 23.VI.1905, le** Pinker (NHMW); **1♀, Mte. Pari, leg. Franz** (NHMW); **2♂♂, Campogrosso,** leg. **Holdha** (NHMW); Id, Cima Tombea, Icg. **Ganglbauer** (NHMW), **2♀♀,** Friuli - Venezia Giulia, S Tarvisio, Mangart, **2100m, sifted** from grass and ***Dryas*, 3.VIII.1998, leg.** Zerche **(DEI);** 1♂, A Carniche, Tarvisio, 1899, leg. Pinker (NHMW); Id, **Toscana,** Alpi Apuane, W M. Sagro, I Borla, **1450m, Fagetum, 6.IX.1998, leg.** Assing **(cAss);** 1♀, Alpi **Apuane,** M. Sagru, **1740** peak region, **6.IX.1998, leg. Assing (cAss); Id. 1♀, Lucania,** Pollino, **Vaquarro (PZ), 1500 7.VI.1982, leg. Angelini (cRou);** 1♂, 1♀, Lucania, Poffino, **Coppola** di Paola, **1500 19.VII.1979, leg. Angelini (cRou); 1♀, Calabria, Aspmiiioiiic.** leg. Paganetti (NHMB). **Local** noi **identified:** 1♂, **1♀, Boscolungo, Pistoiese, VII-VIII.1891, leg. Dodero** (NHMW); 3♂♂, 1 Pso. Moncodeno, **22.VI.1904, 26.VI.1907, leg.** Pinker (NHMW).

Czech Republic: 2 d♂, 2♀ y. Praděd [Altvater], leg. Bernhauer, Wanka (MAKB, NHMW).

Slovakia: Id. Vtáčnik, 1300-1346m, 12.VI.1983, leg. Moravec (cMor); 1♀, Trenčín, leg. Brancsik (MAKB); Id, 1♀, Malá Fatra, 'Kl. Kriyan', 1892, leg. Brancsik (NHMW); 2♂♂, Trenčín, leg. Brancsik (NHMW); ♂, 1♀, 'Tatra', Reitter (MAKB); 1♂, 'Hohe Tatra' (NHMW); 1♂, 'Tatra, Grüner See', leg. Stolz (NHMB).

Romania: J d♂, 3♀♀, Munţii Retezat, Cabana Buta, 1600-1800m, 29.VII.1980, leg. Janák, Moravec (cJan, cMor, cAss); 1 y. Munţii Retezat, Gura Bucurei, 1650-1750m, 22.VII.1988, leg. Janák (cJan); 1♀, Munţii Retezat, Custura, 2200-2400m, 29.VII.1980, leg. Janák (cJan); Id. Munţii Retezat, valea Galeş, 1750-1850m, 26.VII.1989, leg. Janák (cAss); 1♂, Domogled, Baile Herculane, Ch. Prolaz, 500-600m, 16.VII.1982, leg. Janák (cJan); 2♂♂, 4♀♀, 'Carpathen', leg. Branesik, Roshr (NHMW); 1 y. 'Süd-Ungarn', leg. Merkl (NHMW).

Croatia: Id. Dalmatia, Sv. Jure, Blokovo, 28.V.1991, leg. Janák (cJan); 4♂♂, 1♀, Mt. Biokovo, leg. Besuchet (MHNG).

Bosnia-Herzegovina: 2♀♀, Mostar, 1879, leg. Reitter (NHMW); 1♀, [locality not indicated] leg. Apfelbeck (NHMW); 1♂, 'Zaglavik', leg. Weirather (NHMB).

Bulgaria: 1♂, Arkutino, 11.VI.1976 (cJan); 3d♂, 2♀♀, Stara Planina, Petrokhanski, leg. Breit (NHMW. cAss); 1♂, Stara Planina, Sliven, 1000m, 21.VIII.1986, leg. Arndt (cSch); 1♂, Kameno, leg. Paganetti (cAss); 1♂, 1♀, Rodopi Planina, Persenk, 28.VIII.1989, leg. Hartmann (NME); 1♂, Borovec, 6.VII.1993, leg. Cooter (cRou).

Greece: Continental: 2♀♀, Notia Pindos, Katara pass, 1700-1800m, 23.VI.1997, leg. Winkelmann (cSch); 2 9 ♀. Katara pass, 1200m, 28.VI.1997, leg. Winkelmann, Bayer & Mess (cSch); 3d♂, 1♀, Makedhonia, Olympos, NW Hütte Stavros, 1500m, *Fagus* wood, 7.IV.1998, leg. Assiiig. Wunderle (cAss, Wun); 2♂♂, 1♀, Makedhonia, Pieria Ori, Katafygi, 1450m, *Pinus* wood, 9.IV.1998, leg. Assing, Schülke, Wunderle (cAss, cSch, cWun); Id. 1 y, Makedhonia, Drama, Skloti, Kentiriki-Rodopi, 1500m, 3.VI.1986, leg. Wolf (cSch); Id [macropterous], Makedhonia, NW Kavála, Pangéo, below skiing centre, 1650m, beechwood, 24.V.1999, leg. Assing (cAss); 16♂♂, 16♀♀, 6 third-instar larvae, Makedhonia, N Séres, Vrontoûs, 1750m, beechwood, 25.V.1999, leg. Assing (cAss); 1♀, Thessalia, Kato Olympos, E Kalipefki, Metamorphosi, 1500-1580, 12.IV.1998, leg. Wunderle (cWun); 2♂♂, 5♀♀, Thessalia, Kalambaka, Meteora, 14.V.1997, leg. Wolf (cSch); 3♂♂, 1♀, Thessalia, Pelion Oros, E Vólos, 1000m, 3.IV.1998, leg. Assing, Wunderle (cAss, cWun); 1♀, Zagora, Pelion Oros, 400m, 15.V.1997, leg. Wolf (cSch).

Peloponnisos: 2♂♂, Kalavrita, leg. Breit (NHMW); 1♂, 2♀♀, Korinthia, Killini, S Trikala, 1250m, *Pinus-Abies* wood, 11.IV.1998, leg. Zerche (DEI, cAss); 1♂, Lakonia, Parnon, S Agios Pétros, 1150m, *Pinus-Abies* wood, 18.IV.1998, leg. Zerche (DEI); 1♂, Ahaïa, Chelmos, 1465m, *Abies* wood, 12.IV.1998, leg. Zerche (DEI). Rodhós: 4♂♂, 7♀♀, Kattavia, 12.IV.1977, leg. Besuchet (MNHG, cAss); 1♀, Psinthos, 8.IV.1977, leg. Besuchet (cAss); 1♀, Ebonas, 15.IV.1977, leg. Besuchet (MNHG); 1♀, Profitis Ilias, 650m, 11.IV.1977, leg. Besuchet (MNHG); 1♀, Salakos, Prof. Ilias, 500m, 9.IV.1999, leg. Meybohm (cAss); 1♂, between Psinthos and Arhipoli, 100m, 12.IV.1999, leg. Meybohm (cAss). Kárpathos: Id. 1 y, Aperi, 200m, 20.IV.1999, leg. Meybohm (cAss); 1 y. Kali Limni, 1000m, 21.IV.1999, leg. Meybohm (cAss); 6♂♂, 7♀♀, Lastos, Oros Kolla, northern slope, 600m, 16.IV.1999, leg. Meybohm (cAss); 2♀♀, Menetes, Oros Chomali, northern slope, 500m, 19.IV.1999, leg. Meybohm (cAss). Zákinthos: 1♀, Kambi, 13.V.1996, leg. Erhard & Schaufuss (SMNS).

Turkey: northern and northeastern Anatolia: 5♂♂, 6♀♀, SW Artvin, 1900m, 9.VI.1986, leg. Besuchet, Löbl & Burckhardt (MHNG); 6♂♂, 2♀♀, Ariviii. 'Col entre Savçat-Ardahan', 2650m, 12.VI.1986, leg. Ilesiiclici. Löbl & Burckhardt (MHNG); 1♀, Artvin, Pirnalli, massif du Karkal dağl., 1600m, 11.VI.1986, leg. Besuchet, Löbl & Burckhardt (MHNG); Id. Artvin, Col entre Borcka-Hopa, 700m, 8.VI.1986, leg. Ilesiiclicl. Löbl & Burckhardt (MHNG); 3♂♂, 6♀♀, Bolu, leg. Schubert (NHMW. cAss); 2♂♂, 6♀♀, Tunceli, Tunceli-Ovacik, 1100m, 5.VI.1986, leg. Besuchet, Löbl & Burckhardt (MHNG); 9♂♂, 16♀♀ y, Kars, 'Col ciiire Damal - Posof', 2400-2500m, 13.VI.1986, leg. Besuchet, Löbl & Burckhardt (MHNG, cAss); 2♂♂, 1♀, Kars, Digor, 1650m, 15.VI.1986, leg. Besuchet, Löbl & Burckhardt (MHNG); Id. Gümüşane dağl., Erzincan-Kelkit, 2100m, 4.VI.1986, leg. Ilesiiclicl. Löbl & Burckhardt (cAss). Locality not specified: 2 0♂, 'Turcia', leg. Merkl (NHMW). **Southern Anatolia:** Id, Antalya, Termessos, 3.IV.1997, leg. Brachat (cSch).

Georgia: Maly Kavkaz: 1♀, Trialetskiy Khrebet, Bakuriani, 1800-2200m, 4.-7.VII.1986, leg. Wi & Schülke (cSch); 2♂♂, 3♀♀, same data, 15.-20.VI.1987 (cSch, cAss).

Caucasus: 1♀, Tbilisi, 'Gomareti' [present name not identified], leg. Leder (NHMW).

Locality ambiguous or not identified: 1♂, 1♀, 'Schneeberg', leg. Bodemeyer (NHMW); 'Konosero', leg. Levander (NHMW); 1♂, 'Sesenke', VII.1892 (NHMW).

Most of the records are within tlic hiiowii raiigc of distribution of *O. lapidicola*. T presencc of tlic spccics in ilic Caucasus region, Iiowivcr. which was previously co dcrcd doubtful (ASSING 1997b), is iiow confirmcd. Accordiiig lo SOLODOVNIKOV (p coiiini.), the locality is in tlic Tbilisi arca bctwccii 44.07 aiid 44.22E, and betwcen 44 and 42.00N. *O. lapidicola* is now also known froiii tlic Greek island Kárpath Interestingly, all the specimens froiii this islaiid wcrc rclativcly dark, macropterous a had comparatively long elytra; tlic same is usually also trucfor iiiaicrial froiii Rodh Specimens froiii the Grcck mainland, in contrast, arc usually brachypterous aiid of ligl colour, aiid fully wingcd beetles are relatively rarc.

In ordcr to assess Ilic vertical distribution in various parts of Ilic arca of distribution, dala in ASSING (1997b) aiid those listed above wcrc poolcd (Table 1). Tlic known up limit of O *lapidicola* is iiow al an altitude of 2650m (northeastern Anatolia). Tlic history of Ilic species still requires clarification. In Ilic Italian Alps, a large iiuniber first- and second-instar larvac wcrc collected in August; scvcral third-instar larvac w collected in Grcccc in May. Previously, larvac had been observed in March (Grec May (Grcccc. Anatolia), aiid in July (Bulgaria) (ASSING 109711).

Table 1: Collection data of adults of *O. lapidicola* (only material examined) iii relation to altitude i the southern arca of distribution: number of specimens (above) and of samples (in brackets belo

altitude (in m above sealevel; classes in 200m steps)	-400	-600	-800	-1000	-1200	-1400	-1600	-1800	-2000	-2200	-2400
Alps				12 (2)	1 (1)	19 (3)	23 (8)	57 (14)	65 (17)	63 (11)	3 (2)
Appennines						3 (2)	9 (4)	1 (1)			
Polish, Czech and Slovakian mountains				8 (4)	3 (2)	13 (4)		1 (1)			
Romania, Croatia, Bosnia-Herzegovina, Bulgaria	5 (1)	1 (1)		1 (1)	2 (2)	56 (3)	33 (5)	172 (13)	56 (13)	38 (11)	17 (5)
Greece	8 (5)	18 (5)	18 (8)	12 (4)	18 (3)	7 (2)	11 (5)	39 (4)			
Anatolia			1 (1)	5 (1)	17 (5)	11 (4)	7 (4)	21 (6)	52 (5)	2 (2)	

Othius piceus SCRIBA

Spain: 2♀♀, Andalucia, Malaga, Ronda, 28.111.1998, leg. Esser (cAss); 2♀♀, Andalucia, Si Nevadá. 23.-26.IV.1997, leg. Poot (cPoo, cWun); Id, Escorial, V.1943, leg. Frey & K (NHMU).

Morocco: 2 d♂, Muycii Atlas, Azrou, Mischliffen, 1600m, 21.IX.1998, leg. Reuter (cFel, cAss).

O. piceus is known froiii the Iberian Peninsula, Morocco, **aiid** Algeria. In Morocco, tlic species had **bccii** recorded only from Tetuan (ASSING 1997b).

Othius angustus angustus STEPHENS

Norway: 1 *y*. W Ardal, 'Nystuen' (NIIMW).

Finland: 1 *y*, **Avasaksa,** leg. J. Sahlberg (NIIMW).

Denmark: 1d. 2♀♀, **Foroyar,** 'Suderö', 1907, **leg. Cornu** (NIIMW); 6♂♂, 1 *y*, Foroyar, northern islands, 1907, **leg. Cornu** (NIIMW, cAss).

Russian Federation: 1♂, Murmanskaya Oblast', Chavan'ga, leg. Edgren (NIIMW); 1♂, Murmanskaya Oblast', Kuzreka, leg. Levander (NIIMW).

Poland: 2 9 *y*, N I Poznań, Murowana Goślina (NIIMW); 1♀, 'Pommern', leg. Schmidt (NIIMW).

Spain: 3♂♂, **1♀, Lerida, Bohi,** 10.VII.1968 (MIING).

Andorra: Id. **iiicles,** 25.VII.1968 (MIING); **1♀, Encamp,** 25.VII.1968 (MIING).

France: Id, **Hautes** Pyrénées, Cirque **de** Troumouse, 25.VIII.1976, **leg. Aubry (cAss); 36♂, 1♀, Hautes Pyrénées,** Barèges, **1600m, 12.VIII.1966, leg.** Tempère (MIING); 2♂♂, **1♀,** Hautes Pyrénées, **Tourmalat [?], 7.VIII.1931, leg.** Tempère (MIING); 1♂, Pyrenées-Orientales, Quillan, 25.VIII.1970, leg. Rougemont (cRou); **Id. 1♀,** Hautes **Alpes** de Provence, **Lac Allos,** 2100-2250m, 4.VI.1974, **leg. Löbl** (MIING); **4♀♀, Hautes** Alpes **de** Provence, **Col d'Allos,** 2150m, leg. Löbl, **12.IX.1982, leg. Löbl (MIING);** 1♀, Hautes Alpes. Col **dii** Lautaret, 2050m, 21.VII.1952, **leg.** Tempère **(MI**ING); 1♂, Haute Savuic, Roc d'Enfer, 1800-1850m, 23.VIII.1978, leg. Löbl **(cAss);** Id. Haute Savoie, le Tour, Col **de Balme,** 2200m, 19.IX.1993, **leg.** Zerche **(DEI);** 2 6♂, **4♀♀,** Alpes Maritimes, **Col de la** Ceyolle, 2320m, **10.VII.1964, leg Tempère** (MIING).

Switzerland: **Graubünden:** 1♂, **Prätigau,** Si. **Antoenien Partnunsee,** 1850m, 25.X. 1996. leg. Kapp (cKap); Id, 2♀♀, Graubünden, St. Moritz (NIIMW); Id. Uri, St.-Gotthard (MAKU); 1♀, **Valais,** Sidero **[?], leg. Simon** (NIIMW).

Swiss or Austrian territory: 2♂♂, **1** *y*. Rätikon, leg. Ganglbauer (NIIMW); Id. Silvretta (NIIMW).

Austria: Vorarlberg: 1♂, 1♀, Laterns, Gerenfalben, **1938m,** ***Calluna*** litter, 12.IV.1997, **leg.** Kapp **(cKap);** 1♀, **Gaschum,** Silvretta, **Stausee,** 2050m, 12.X.1996, leg. Kapp **(cKap);** 1♂, Lechtaler Alpen, Memminger **Hütte,** 4.VII.1921, **leg. Stöcklein** (NIIMB); **1♀,** Gargellen, Untere Röbi-Alpe, 1640m, 18.IX.1997, leg. Kapp (cKap); Id. **1♀,** Rätikon, **Lüner-See** (NIIMW); **Id.** 1♀, Stuben, **leg.** Breit (NIIMW). **Tirol: 1♀,** Zillertaler **Alpen, leg. Stöcklein** (NIIMII); 2♂♂, **1♀,** Stubaier Alpen, **leg.** Breit (NIIMII). **Steiermark:** Id. **1♀,** Turnau (NIIMII); **1** *y*, **Wartberg, 600m,** 3.V.1967, **leg. Huss** (NIIMW). 1♂, **'Nord-Tirol',** leg. Breit (NIIMW).

Italy: 1♀, Lombardia, Mlc. Guglielmo, leg. Franz (NIIMW): 1♀, Trentino, **Lago di Garda, Cima Tombea, 1900m, 4.VII.1986, leg. Kippenberg (DEI);** 2♂♂, **1♀,** Trentino, **Stèlvio, VIII.1872** (NIIMW); **2♀♀,** Stèlvio, 20.VII.1872 (NIIMW); **3♂♂,** Mte. Stèlvio, **Sta.** Maria, **11.VIII.1872** (NIIMW); 2♂♂, 1♀, **Santa** Marin (NIIMW); Id, 1♀, Trentino, Passo di Rolle, **leg.** Ganglbauer (NIIMW): 2♂♂, **1♀, Val di Solda,** 8.VIII.1872 (NIIMW): **1♂,** Valli Giudicárie, Val di **Leno,** leg. **Ganglbauer (NIIMW);** 1♀, Trentino, **Madonna** di Campiglio, NW **Rif.** Pradalago, 2400-2500m, peak region, 10.VIII.1998, leg. Assing (cAss); **1♀, same data,** 2200-2300m, litter **of** ***Alnus viridis*** **(cAss);** 1♀, **Piemonte,** Lago **d'Orta,** X.1960 **(MIING);** 3♂♂, 1♀, **'Cinque Valle',** 1894, leg. Haberfelner (NIIMW); **3♀♀, Emilia** [locality **illegible],** 24.VIII.1902, **leg. Fiori** (NIIMW).

Czech Republic: 1♂, Praděd [Altvater], **11.VI.1899 (MAKB);** Id. **1♀,** Praděd, leg. v. Bodemeyer (NIIMW).

Slovakia: 1♀, Mala Fatra, 25.VII.1973, **leg.** Moravec (cMor).

Polish, Czech or Slovakian territory: 1♂, 2♀♀, Krkonosze [Riesengebirge], leg. Varendorff (NIIMW): 1♂, Beskidy Zachodnie, leg. **Koltze** (NIIMW); **Id,** 'Beskid.' (NIIMU).

Bosnia-Herzegovina: 1♀, Cvrstnica, leg. Hoffmann (cAss).

Based on prcviously rcvisccd material, the southeastern limit of the distribution of ***angustus angustus*** **was** assumed to be Slovakia **aiid** the Romanian Carpathians (Ass 1997b). Against this background, tlic rccord froiii Bosnia-Herzegovina is remarka especially since safe rccords froiii the cxtreinc southeast of Austria, from Slove **Hungary,** and froiii Croatia are still **uiikiiowii.**

The ovarics of one female collected **by** pitfall trapping **the** Lüneburger Heide (Germa **in Jaiiuary** 1999contained **a** mature egg. This observation is somewhat remarkable, **si** oviposition activity was previously believed to bc confined to late summer **aiid** e **autumn (ASSING 1993).**

Othius angustus stenocephalus EPPELSHEIM

Turkcy: nurihern and northeastern Anatolia: 7d♂, **13♀♀, Kars, 'Col centre** Damal - Posof', 2 2500m, 13.VI. 1986. leg. **Besuchet, Löbl** & Burckhardt (MIING. cAss); 1♀, Artvin, **Pirn** massif du Karkal **dağl., 1600m,** 11.VI.1986, leg. **Ucsuclici, Löbl &** Burckhardt (MIING).

Georgia: Maly Kavkaz: **1♀, Trialetskiy Khrebet,** Bakuriani, **1800-2200m, 4.-7.VII.1986,** leg. W & Schülke (cSch); 2♂♂, 3*y* ♀, **same data, 15.-20.VI.** 1987 (cSch, cAss).

Caucasus: Central: Id. 'Sever. Prjut', VI.1974, **leg. Gottwald** (NIIMB); **Id.** 2♀♀, **Musat** Khrebet, **3000111**10.VI.1974, **leg.** Gottwald (NIIMU, cAss); Id. 1 *y*. **Ossetia, Kasbegi, Orz** glacier, **2500-3600m, 1.-8.VII.1988,** leg. Wrase **(cSch, cAss).**

Othius laeviusculus STEPHENS

Morocco: 3♂♂, **Rif,** Kitāmah, 21.V.1933 (NIIMB); 3♀♀, **Oujda, leg.** Breit (NIIMW); 2♀♀, **A** 'Timhadit', leg. Breit (NIIMW); 2♂♂, **6♀♀, Azrou, leg.** Breit (NIIMW. cAss); 1♂, **A Azrou,** 17.IV.1933 (NIIMU); **1♀,** M. **Atlas, S'Azrou,** 1700m, 4.V.1960, **leg. Ucsuclici** (MIIN **1♀, H. Atlas, 4 km** E Agni, **1400m,** 26.-27.X.1990, leg. Arndt **(DEI).**

Algeria: 1♀, Djuirdjura, Col de Tizi-N'Kouilal, 1700-1800m, 7.V.1988, **leg. Ucsuclici,** Löb Burckhardt (MIING); Id, 2♀q, **Atlas de** Blida, Chréa, Les Glacières, **1100m, 3.V.1988,** Besuchet, Löbl & Burckhardt (MIING); 1 *y*. Chréa near **Blida,** 10.V.1987, **leg. Kuban** (NIIM **1♀,** Oran, leg. Breit (NIIMW): **1♂, 1♀, Saida, 6.IV.1988, leg. Kubáň** (NIIMU); **Id,** B (MAKB); **1♀, Aïn** Beïda, leg. Thery (MAKB): 1♀, Frenda, leg. Tondu (MAKU); 1♀, 'H **R'ira' (NIIMW);** 1♀, locality not indicated **(MAKB).**

Spain: 1♂, 1♀, Prov. Jaen, Sierra **de** Cazorla, 800-2000m, V.1943, **leg. Frey &** Kocli (NIIMU); **Andalucia, Sierra** Nevada, Veleta, 3130m, 23.VII., **leg.** Steiner (NIIMW); Id, Sierra Nev 1300m, 28.V.1980, leg. **Rougemont (cRou);** Id, E **Sierra** Nevada. **Puerto de** la **Ragua,** V.1 leg. Frey & Koch (NIIMU); Id, 1♀, **SE Salaiiiaiica, Sierra de** Gredos, Candeleda, 9.X.1 V.1970, **leg. Curti** (MIING); Id, Sierra **Guadarrama, P.** Navacerrad, V.1943, **leg. Frey** & **K** (NIIMB); **3♂♂, 2♀♀,** Mallorca, **Palma, VIII.1880 (NIIMW);** 2♂♂, **'Hisp.'** (NIIMW).

France: 1♀, Bordeaux, Gradignan, V.1976, **leg. Tempère** (MIING); 2♀♀, W **Paris,** Dreux, Achard (MAKB).

Gcmiwny: Rheinland-Pfalz: 1*y*, Ahrweiler, **leg.** Fuss (MAKB); 7♀♀, **Wolmrothertal,** 30.V.1 7.VII.1956, **1./15.VI.1957,** 1.VI.1967, **leg.** Schmaus (MAKU); **1♀, Kastellaun,** 8.VII.1971, Schmaus (MAKU); **Id. Behrens Knipp,** 8.IX.1956, **leg. Schmaus** (MAKB). **Bayern:** München, Echinger **Lohe,** 1930 (NIIMB); 6♂♂, **4♀♀,** Pfarrkirchen, leg. **Stöcklein** (NIIM **1♀,** Bayrischer Wald, **Rachel,** 22.VI.1919, **leg. Stöcklein** (NIIMB); **1♀,** Vilshofen, 3.V.1 leg. Stöcklein (NIIMU); **1♀, Schloss** Schönburg, 7.V.1919. **leg. Stöcklein (NIIMB);** 2♀ Oberbayern, **Altwasser des Inn,** 29.IX.1915, **leg. Stöcklein** (NIIMB).

Italy: 2♀♀, **Lombardia, Domodossola** (NIIMW); **Id, 5♀♀**, Roma, 20.XI.1897, leg. Luigioni (MAKB, NIIMW): **2♀♀, Campania, Vcsiivio, leg. Krauss** (NIIMW); **2♀♀, Lazio, Lago** di Vico, Monti **Ciiiiiio. San** Martino **al Cimino, 700m**, 23.V.1998, **leg. Wolf (cSch);** 2♂♂, 6♀♀, Gargano, **Mi.** S. Angelo, leg. Holdhaus (NIIMW); 4♂♂, 6♀♀, Gargano, **L. S. Giovanni, leg.** Holdhaus (NIIMW); 1 ex., Pollino, **Piani Ruggio (PZ), 1500m**, 11.VI.1977, leg. Angelini (cRou); **1♀**, Sardegna, Mte. **Chiesa** (NIIMB); 1♂, Isola **d'Elba**, leg. Holdhaus (NIIMW); **1♀, 'Sicilia'**, leg. **Füge (LMH);** 1♂, Sicilia, **Favorita**, leg. **Füge (LMH);** 3♂♂, 4♀♀, **'Ital.** med.' **(NIIMW).**

Austria: 1♀, 'Steyermark' (MAKB); Id, 2♀♀, **'Styria', leg. Pipitz** (NIIMW); **1♀, 'Kranichberg', 1887, leg. Ganglbauer** (NIIMW); **1♀, 'Umgebung** Wiens' (NIIMW).

Czech **Republic:** Id, 2♀♀, **Silesia, Český Těšin**, leg. Wanka (NIIMU).

Bosnia-Herzegovina: 1♀, 'Igbar-Thal', leg. Zoufal (BMNH); **1♀, Sarajevo, 'Pasin brdo'**, V1.1933, **leg. Stöcklein (NIIMU).**

Yugoslavia: Id. Serbia, **Tara Planina S** Perućac, 500m, 22.V.1984, leg. Besuchet **(cAss).**

Macedonia: 1 ex., Prisep, X.1989, leg. Pittino (cRou).

Greece: 5♂♂, 1♀, N Larissa, **Kato Olympos**, E Kallipefki, **1500-1580m, 6.IV.1998**, leg. Assiiig, Wunderle **(cAss,** cWun); **29♂♂, 37♀♀**, same **data, 12.IV.1998 (cAss,** cWun); **2♂♂, 2♀♀, Parnassós**, leg. Eppelsheim (NIIMW); **1♀, Makedhonia**, NW Kavála, **Pangéo, 1650m**, 24.V.1999, leg. **Assiiig (cAss);** Id. 1♀, **Makedhonia**, N Séres, **Vroiiioüs. peak above Lailias**, 1800m, 25.V.1999, leg. **Assing (cAss);** 1 ex., Pelopónnisos, **Taygetos**, 2.XI.1981, **leg. Pittino (cRou); 1♀, Pelopónnisos**, Taygetos, **36°57'N**, 22°22'E, 1630m, 20.IV.1998, leg. Behne (DEI); **Id, 'Graecia'** (NIIMW).

Cyprus: 1♂, [locality illegible] (NI**IMW).**

Turkey: Anatolia: 1♂, Samsun, 20.V.1967, leg. Wittmer (MIING): 2♂♂, **1♀**, Izmir (NIIMW); **1♂, 2♀♀, Namrun, 2000m, 11.-26.V.1960, leg.** Schubert (NIIMW, **cAss); 1♀**, Namrun, 10.V.-**3.VI.1963, leg. Schubert; 1♂, 1♀, Namrun, 1800m**, V.1963, leg. Schubert.

Iran: 1♂, 1♀, Assalam-Hero-abad, 1800-2350m, 1 I.V.1970, **leg. Wittmer &** v. Bothmer (NIIMB, **cAss).**

The known southeastern **limit** of distribution of O. *laeviusculus*, based **oii** revised records, had beeii tlic Caucasus region, Anatolia, **aiid** Syria **(ASSING** 1997b). Tlic species **is** Iicre for the first time confirmed froiii Iran.

Othius volans J. SAHLBERG

Switzerland: 1♂, Molard (VO), **X.1978**, leg. Toumayeff, coll. Lohse (MIING).

Italy: Sicilia: 1♀, **Femmina** Morte, 7.XII.1976, **leg. Curti** (MIING).

The literature record from Molard. Switzerland **(UHLIG** et al. 1986), **is** Iicre confirmed.

Othius brachypterus WOLLASTON

Canary Islands: La Gomera: 2♂♂, NW **Garajonay**, La **Laguna** Alta, 1300m, Fayal-Brezal, 28.XII.1998, leg. Assing (cAss); 3d♂, 2♀♀, S **La Laguna** Graiidc. 1200m, **barranco, Fayal-Brezal**, 28.XII.1998, **leg. Assiiig (cAss); 1♀, Meriga**, 9.I.1983, **leg. Machado** (cMac); 1♀, Mora **de Gaspar**, 4.VII.1977, **leg. Bacallado** (cMac).

Tliis ciidciiiic of **La** Goiiicra is apparently widely disiributed, though rather local **aiid** rare, in the central **part** of' **tlic** island. **Adult beetles** seem **to be** prescii throughout **tlic** year, although records f'roiii February, March, and Novciiibcr are still unknown.

Othius microphtalmus COIFFAIT

Canary Islands: La Gomera: 2d♂, Nat. Park Garajonay, **Ia** Laguna Graiidc, 1000m, **15.VII.199 leg.** Pütz (cAss); Id, 2♀♀, El **Cedro**, E Ermitá N. **S. de** Lourdcs, **1000m, Laurisilv** 24.XII.1998, **leg.** Assing **(cAss);** 2♂♂, **El Cedro, near Ermitá** N. **S.** de Lourdcs. 900-1000 Laurisilva, **24.XII.1998**, leg. **Assiiig** (cAss).

O. microphtalmus, like the preceding species **an** ciidciiiic of' La Goiiicra, **but** cvcii rir **aiid** more local, **has** beeoiiic known oiily froiii **ilic** surroundings of La Laguna Graiidc ar froni tlic vicinity of the Cedro strcaiii **(ASSING** 1997a, 1998a).

Othius neglectus PALM

Canary Islands: Gran Canaria: 1♂, 1♀, Los Marteles, 1500m, 29.I.1989, **leg. Becerra (cGar, cAs 2♂♂, 1♀, S El Cortijo.** S Fontanales, 28°03'19N, 15°36'44W, 1120m, 31.I.1998, **leg.** Zere **(DEI, cAss);** Id, **1♀**, S **Fontanales, 1250m**, *Pinus* wood, **5.II.1998**, leg. Zerche (DEI); 1♂, Andin, 1200m, **21.VI.1984, leg.** Machado (cMac).

Tliis ciidciiiic of Gran Canaria had previously hccii kiiowii oiily froiii four localities in t northern aiid northern central part of the **island** (ASSING **1997a, 1998a).**

Othius solodovnikovi ASSING

Central Caucasus: 1♀, Kabardino Balkarskaya, Golugbye [?] Ozioria, 850m, **9.VI.-19.VII. 1992. l Shchurov (NIIMB); 1♀, Kabardino Balkarskaya**, Mizhirgi Valley, 2900m, **12.VI.-21.VII.19 leg. Shchurov (cAss).**

The records indicated above are within **tlie kiiowii** area of' distribution of this recent described species **(ASSING** 1997b), **bui** extciid **both** tlic lower **aiid** tlic upper altitude lim **to** 850 and **2900m**, respectively.

Othius deharvengi COIFFAIT

1♂, Nepal, Mustang District, Thaksang, **3400m**, 26.-29.IV.1980, **leg.** Marten & **Ausobsky** (c Martens).

O. deharvengi has beeii collected al Thaksang before **(ASSING** 1998b), **but tlic** up altitude **limit** is iiow exiciided **Io** 3400m.

Othius jumlaensis sp. n. (Figs 1 a - e)

Holotype ♂: 579 Nepal: Jumla **Distr.**, Ghurchi-Lagna **Pass, 3500m**, 14.VI.1998, leg. Scliawallcr / Holotypus **Othius jumlaensis** sp. n., **det.** V. **Assing 1998** (SMNS). Paratypes: 1 same **data as** holotype (cAss); 3♂, **1♀, 581** Nepal: Jumla **Distr., Khali-Lagna Pass, 3500m**, 1 17.VI. **1998, leg.** W. Scliawallcr **(SMNS,** cAss).

D e s c r i p t i o n : Mcasurciiiciits (mm) **aiid** ratios (range; n = **4): HL: 0.88 - 0.** HW: *0.85* - 0.94; PW: 0.91 - 1.00; PL: **1.13** - 1.21; EL: 0.66 - 0.71; TiL: 0.79 - 0.1 TaL: 0.66 - 0.76; TL: 7.1 - 7.7; HL/HW: **1.02** - 1.13; HW/PW: 0.88 - 0.95; PL/PW: 1. - **1.25**; EL/PL: 0.58 - 0.61; **TiL/TaL**: 1.08 - **1.23.**

In external morphology most similar **to** O. *jaegeri* ASSING, **from which** *O. jumlaen* may **be** distinguished **as** follows:

Size on average larger. Posterior pair of frontal punctures slightly finer. Microsculpt of head coniposed of either predominantly traiisverse striac or of a inixture of ± sli traiisvcrse meshes aiid traiisvcrse striac.

Pronotum wiili traiisvcrsc iiiicrosculpiurc. Elytra as iii O. *jaegeri* wiili ± uneven surfacc, but without iiiicrosculpturc; interstices shining.

♂: protarsi as iii O. *jaegeri* strongly dilated; stcriiuiii VII unmodified; stcriiuiii VIII posteriorly weakly coiivcx to weakly concave; sicriiuiii IX broadcr aiid rclativcly shorter than iii *O. jaegeri* (Fig. 1c); lateral tergal sclerite IX as iii Fig. Id; aedeagus large, but relatively smaller than in *O. jaegeri*; ventral process apically broadcr iii ventral vicw; paramerai setae very long; apical membranous structure of internal sac of characteristic shape aiid darker tliaii in tlic related spccics; flagellum as iii *O. jaegeri* (Figs 1a, b).

♀: protarsi weakly dilated, sexual diiiiorpliisiii proiiouncccd; tergum X of similar shape as in O. *jaegeri*, postcriorly in ilic two X paratypes with 5 aiid 10 modified setae, respectively (Fig. ic).

Phylogenetics and comparative notes: The new spccics is the first rcprcsciiiativc of tlic *O. kashmirica* subgroup from Western Ncpal. It is most similar to O. *jaegeri* ASSING from the Annapurna mountain raiigc in Central Nepal (scc diagnosis aiid ASSING 1998b).

From all tlic spccics of ilic *U. kashmirica* subgroup, O. *jumlaensis* is distinguished by the brond aiid relatively short ♂ stcriiuiii IX, aiid by ilic shape aiid dark colour of tlic apical iiiciiibraiious structure of tlic internal sac. In addition, it differs from U. *schawalleri* ASSING (Central Ncpal) in tlic lighter body colour, ilic shorter antennae, aiid the more shining elytra, aiid from *O. deharvengi* COIFFAIT (Cciitral Ncpal) in larger body size, iiiorc uneven surface of ilic elytra, niid iii tlic distinctly more proiiouncccd scxiial diiiiorpliisiii of tlic protarsi. *O. kashmirica* CAMERON, U. *yusmargensis* COIFFAIT, aiid *O. cachemiricus* COIFFAIT from Kashmir iirc smaller, aiid their aedeagi are apically more aculc (scc ASSING 1998b).

Othius punctulatus (GOEZE)

Morocco: 2♂♂, 29♀, Rif, Kitāmah, 21.V.1933 (NIIMD); 19, Ifrane, 2000m, 14.X.1974, leg. Curti (MIING); Id. 1♀, Ifrane, 2. - J.V.1979. leg. Curti (MIING, cAss); 1♀, Ketama, I.V.1979. leg. Curti (MIING): 1♂, 30 kiii W Ketama, 1500m, 19.IX.1998, leg. Reuter (cFel); 1♀, Azrou, Mischliffen, 1600m, 21.IX.1998, leg. Reuter (cAss); 1♂, Grand Atlas, 3000m, 25.X.1974, leg. Curti (MIING).

Algeria: 3♂♂, 4♀♀, Djurdjura, Tikjda, 1430m, 6.V.1988, leg. Besuchet, Löbl & Burckhardt (MIING. cAss); 2♀♀, Djurdjura, rte. de Tala Guilef, 950-1100m/ 1300m, 10.-11.V.1988, leg. Besuchet, Löbl & Burckhardt (MIING); 3d♂, 39♀, Djurdjura, Col de Tizi-N'Kouilal, 1700-1800m, 7.V.1988, leg. Besuchet, Iiibl & Burckhardt (MI INC. cAss); 1♀, Grande Kabylie, Forêt d'Akfadou, Y kiii W Adekar, 1300m, 11.V.IYXX, leg. Ilcsiiclici, Iühl & Burckhardt (MIING); 1♀, Grande Kabylie, Forêt d'Akfadou, 22 km E Yakouren, 1050m, 16.V.IYXX. leg. Ilcsiiclicl, Löbl & Burckhardt (MIING).

Spain: mainland: 2♂♂, 1♀, Prov. Barcelona, Sierra de Montseny, Col Fornic, 1150m, *Fagus* wood, 14.X.1997, leg. Zerche (DEI, cAss); 1y, Sierra de Montseny, S les Agudes, 1625m, *Fagus* wood, 7.X.1997, leg. Zerche (DEI); 1♂, Prov. Girona, N Puerto Toses, between Puigcerda aiid Ribes, 1660m, *Abies* and *Picea* wood, 9.X.1997, leg. Zerche (DEI); 1♀, Picos de Europa, 14.V.1965, leg. Curti (MIING); 1♀, Asturias, Puerto de Ventana, 1200m, beechwood, 2.VI.1998, leg. Lompe (cAss); 1♀, Puerto de Ventana, 1400m, 2.VI.1998, leg. Lompe (cAss); Id. Zaragoza, Sierra de Moncave, 2X.S.1975 (MIING); 1♀, Seo d'Urgel, VI.1971, leg. Curti (MIING).

Canary Islands: La Palma: 1 [illegible] la Grama, 4.I.1989, leg. Garcia (cGar); 2 third-instar larv. Cuiiibrc Nueva, E Refugio El Pilar, 1350m, Fayal-Brezal, 4.IV.1999, leg. Assiiig (cAss); 2♀♀ third-instar, 1 second-instar, 1 first-instar larvae, Cuiiibrc Nueva, E Refugio El Pilar, 1450 *Pinus canariensis* wood with *Myrica faya*, 4.IV. 1999. leg. Assing, Wuiidcrlc (cAss); 1 thi instar larva, Cuiiibrc Niicva. E Refugio El Pilar, 1400m, Fayal-Brezal, 4.IV.1999, leg. Assi (cAss); 4 third-instar, 3 second-instar, 2 first-instar larvae, Cuiiibrc Nueva, 0.4 kiii S Lomo de Mestres, 1080m, Fayal-Brezal, 5.IV.1999, leg. Assiiig (cAss); 1♀, same data, but 3 km S Lo de los Mestres, leg. Wunderlc (cWun); 2♀♀, 8 third-instar, 4 second-instar, 16 first-instar larv Cuiiibrc Vieja, NW Roque Niquiomo, 1350m, Fayal-Brezal, 8.IV.1999, leg. Assing, Wunde (cAss, cWun); 1 first-instar larva, Cuiiibrc Vieja, NW Roque Niquiomo, 1400m, Fayal-Brez 8.IV.1999, leg. Assing (cAss); Id. 6 first-instar larvae, Cuiiibrc Vieja, near Roque Niquion 1350m, Fayal-Brezal, 8.IV.1999, leg. Assiiig. Wuiidcrlc (cAss, cWun).

France: Id, Pyrénées Orientales, Pareigoule, 15.IV.1977, leg. Löbl (MIING); 1♀, Pyrenées a Forêt des Arbaillcs, Grotte d'Istaurdy, 880m, 7.VI.1998, leg. Lompe (cAss); 2d♂, Calvados, de Cerisy, 2.XI.1973, leg. Curti (MIING); 1♀, Gironde, Ia Verdon, IX.1981, leg. Temp (MIING), 1♀, Seine-Maritimes, Londinières, IV.1983, leg. de Rougemont (cRou); 1♀, Hau Garonne, Luchoii, 1300-1400m, 1.VI.1952, leg. Tempère (MIING), 1♂, 2♀♀, Gard, La Baun 5.IV.1980, leg. Löbl (MIING); 1♂, Gard, Mt. Aigonal, 1000m, 7.IV.1980, leg. Löbl (MIINI 1Y. Vaucluse, Avende de la Savy, IX.1989, leg. Curti (MIING); 1♀, Vaucluse, Mont Ventoux Bédoin, 1300m, leg. Besuchet (MIING); 1♂, Var, Fayence, VII.1977, leg. Curti (MIING); 1 Ain, Chartreuse, 24.VI. 1969, leg. Curti (MIING); 1♂, Savoie, Col du Chat, 24.IV.1975, leg. Li (MIING); Id. Haute-Alpes de Provence, Moricr. 4.VI.1974, leg. Löbl (MIING); 2♀♀, Hau Alpes de Provence, Les aiqueliars, 1700m, 4.V1.1974. leg. Löbl (MIING); 4♂♂, 1♀, Alp Mariiiiiics, La Bollène, Colle de Turino, 1000m, 16.X.1997, leg. Stüben (cSch); 1♂, Cor Cervione, 150m, 19.VII.1994, leg. Zerche (DEI); 1♀, Corse, Miirm, 17.VII.1974, leg. Li (MIING); 1♀, Corse, Abco, 750m, 10.VII.1974, leg. Löbl (MIING); 2♂♂, Corse, Si. France au dessous Oletta, leg. Iübl. 6.VII.1974 (MIING, cAss); 1♂, Corse. Canaglia, 14.VII.1974, le Löbl (MIING); 1♀, Corse, Restonica, 2.XI.1972, leg. Curti (MIING).

Austria: 1♂, Steiermark, Bezirk Hartberg, Tierpark, Herberstein, 10.IV.1998, leg. Holzer (cHol).

Italy: Id, 3♀♀, Piemonte, Valle di Susa, Colle di Finestre, 850m, 23.-24.IX. 1997, leg. Wolf (cSc 1♀, Colle di Finestre, 1000m, 28.VII.1996, leg. Wolf (cSch); 2♀♀, Trentino, Lago di Led 30.VIII.1969, leg. Löbl (MIING); 1♀ [teneral], 6 third-instar larvae, Trentino, Val di Non, T Coredo, Val di Verdes, 1000m, 12.VIII.1998, leg. Assing (cAss); 1♂, 1♀, Monte Baldo, Ferra 880m, 31.V.1977, leg. Löbl (MIING); 1♀, Moiiic Baldo, Prada, 1300m, 16.111.1998, le Meybohm (cAss); Id, 2♀♀, Corno d'Aquilo, Fosse, 19.VI.1968 (MIING); 1♂, Abruzzo, La di Barrea, 4 kiii W Barrea, 1000m, 16.V.1998, leg. Wolf (cSch); Id, 1♀, Sardegna, III.1979, le Curti (MIING); 1♂, 1♀, Sardegna, III.1977, leg. Curgi (MIING); 1♂, 1♀, Sardegna, Gado 111.1979, leg. Curti (MIING).

Poland: 1♀, Bialowiecza, VI.1966, leg. Jaeschke (cSch).

Slovenia: 2dd. 1♀, Police, Gor. Radgona, 14.II.1998, leg. Drovenik (cAss, cDrov)

Croatia: Id, 19, MI. Biokovo, leg. Besuchet (MIING); Id. 'Croatia', leg. Reitter (MAKB).

Greece: Continental: 1♀, Makedhonia, Olympos, NW Hütte Stavros, 1400m, 7.IV.1998, leg. Assi (cAss); 2♂♂, 2♀♀, Makedhonia, Pieria Ori, Katafygi, 1450m, *Pinus* wood, 9.IV.1998, le Assiiig (cAss); 1♂, 2♀♀, Pieria Ori, above Skotina, 900-1000m, *Fagus* wood, 9.IV.1998, le Assing, Wuiidcrlc (cAss, cWun); 1♂, Makedhonia, Vernion Onis, above Kastania, 1300 11.IV.1998, leg. Assing (cAss); 1♂, 1♀, Makedhonia, NW Kavala, Pangéo, 1700m, beechwo 24.V.1999. leg. Assiiig (cAss); 2♀♀, same dala, hui 1650m, 24. & 28.V.1999 (cAss); 1 Pangéo, 1200m, beechwood, 28.V.1999, leg. Assing (cAss); Id, Makedhonia, Falakró, 1000 beechwood, 26.V.1999, leg. Assing (cAss); 1♀, Thessalia, Mi. Ossa, 1000m, 18.V.1997, le Wolf (cSch); 1♂, 1♀, Katara pass, 1500m, 13.V.1997, leg. Wolf (cSch).

Anatolia: 6♂♂, 1♀ Gümüşane dağl., Erzincan-Kelkit, 2100m, 4.VI.1986, leg. Besuchet, Löbl Burckhardt (MIING, cAss); S Artvin, 1500m, 9.VI.1986, leg. Besuchet, Iühl & Burcklia (MIING); 1♀, Artvin, Pirnalli, massif du Karkal dağl., 1600m, 11.VI.1986, leg. Besuchet, Löbl Burckhardt (MIING).

Moldavia: 1♀, Kapriyana, oakwood, 3.V.1969, leg. Blinstein (cBli).

Ukraine: Id. **Krym**, 120 **kiii** NWW **Sudak, Partisanskaja mountain**, 980m, 9.VIII.1992, leg. Blinstein (cBli); 2♂♂, Kryiii. **laila** mts., Demerdski **[?]**, beechwood, 2.V.**1968, leg.** Blinstein **(cBli, cAss); 1♀**. Krym, **Karabi-laila** mts., **[locality illegible]. 900m**, 13.VII.1994, leg. Blinstein **(cBli); 1♀**, Krym, **Tschatir Dag., Sacharnaja Golovka**, 30.IV.1970, **leg.** Blinstein (cBli); **1♂, Odessa**, **23.IV.1983**, leg. **Blinstein** (cBli).

Locality not identified: 2♂♂, **Roquebilliere, A.** M.. 23.VII.1983, **leg. Curti** (MIING); **1♀, Bevil, A.** M.. VII.1950 (MIING); **1♂**, Mi. Telion, Si. Auban, **A.** M. (MIING); **1♀, Col de Platel, Annot, B.** A., leg. **Curti** (MIING); **1♂, Lorge, c. d.** N., 12.XI.1972, **leg. Curti (MIING).**

Previously, *O. punctulatus* had oiily once bccii rccordcd froiii tlic Canary Islands. Tlic iicw rccords of adults aiid **larvae** froiii several **localities** boili **at** lower (**La** Grama) **and** higher altitudes indicate that **ilic** species **has** bccoiiic widcsprcad at lcast in La Palma, where **it was** observed primarily **in Fayal-Brezal aiid** *Pinus* woodland. Accordiig to SOLODOVNIKOV (pers. **coiiiiii.**), *O. punctulatus* also occurs in Kazakhstan, where **10 aiid 3♀♀ wcrc** collected **on 28.IV-3.V.1998 near Djanybek at** ilic western bordcr. Tlic species is here for tlic first time recorded froiii Moldavia. The **iicw** rccords extend **ilic** range of altitudes inhabited by tlic species especially for North Africa **(ca. 1000 - 3000m)** aiid for ilic **Alps (maximum: 1700m).**

Othius grandis HOCHHUTH

Caucasus: **West and** North: 2d♂, Krasnodar pruv., Mi. **Schessi, 1400m, 20.V.-8.VIII.**1992, leg. Shchurov (NHMB); Id. **North Ossetia, Urukh Valley**, 1.VII.1993 (NHMB); **1♀**, 'Circassien', **leg.** Leder, Reitter (NHMW). **Central:** 2d♂, 1♀, **Musatčeri khrebet, 3000m**, 10.VI.1974, leg. **Gottwald** (NHMB, **cAss**); **1♂, 1♀, Svanetskiy** khrebet, **leg.** Leder, Reitter (NHMW); **1♂, 1♀**, Georgia, **Gilola, Gora Geske, 1910** (NHMB). Maly **Kavkaz: 1♂**, Kirovabad, VI.1876, **leg.** Leder (NHMW). **Locality** not **indicated** or illegible: **Id. 1♀**, 'Kaukas, Psdzaven **[?]**', leg. Leder (NHMW). **1♀**, 'Kaukas', leg. Leder (NHMW); .

Othius paralleliceps QUEDENFELDT

hlurrccc: 2♀♀, **Rabat**, XI.**1985**, **leg.** Rougemont **(cRou, cAss)**; 2♀♀, **Port** Lyautey, 9.IV.1933 **& 7.IV.1935** (NHMB).

O. paralleliceps, whose disiribuiion seems io be confined io ilic extreme south of Spain and **to** Morocco, is apparently **of utmost rarity**. Prcviously. oiily **old** rccords **had** bccii **known (ASSING 1997b)**

Othius strigulosus WOLLASTON

Madeira: 3♂♂, **1♀, Paul da Serra, 1 km SE Rabaçal**, Rib. **Lajeado, Rib.** Alecrim, 1250m, 14.IX.1998, leg. Schuh (NHMW. cAss).

Othius jansoni WOLLASTON

Madeira: Id, **3♀♀**. NW **Pico do** Ariciro, **Pico do Cidrão, 1550-1700m, 3.IX.1998, leg.** Schuh (NHMW. **cAss**).

O. jansoni, like the preceding spccics **a relatively** widcsprcad, though somewhat rarer Madeiran endemic, had **previously not bccii** rccordcd froiii **tlic** Pico **do Cidrão.**

Othius subuliformis STEPHENS

Finland: 1♂, Pihlajavesi, **leg. J. Sahlberg** (NHMW).

Russian Federation: 1♀, 1 ex., Karel'skaya Resp., Solovetskiy Ostrava, **leg.** Levander (NHMW 1♀, NW St. Petersburg, Roščino, **leg. J. Sahlberg (NHMW)**.

Denmark: 2 9♀, **Foroyar, northern** islands, **1907**, leg. Cornu (NHMW).

Portugal: 3 9♀, Vila **Real, Arrabaes, 600m, 27.VII.1981, leg. Löbl** (MIING).

Spain: 36♂, 1♀, Prov. **Barcelona**, Sierra **de** Montseny, Col **Formic, 1150m, beechwood, 14.X.199 leg.** Zerche **(DEI); 7♂♂**, 2 9♀, **Sierra de** Montseny, **S** Turó **de** l'Home, **1480m**, beechwoo 7.X.1997. **leg.** Zerche **(DEI); 5♂♂**, 4♀ 9, Sierra **de** Montseny, **S** Ics **Agudes**, 1625 beechwood, 7.X.1997, leg. Zerche (DEI); **Id. 1♀, Asturias, Genestoso, Sierrra de Serrantin** 1000m, 16.V.1997, leg. Starke (coll. Starke); 2♂♂, **1♀, Asturias, leg. Koltze** (NHMW); 2♂ **1♀, Asturias, Puerto de** Ventana, 1200m, beechwood, **2.VI.1998**, leg. Lompe **(cAss); 2♂♂**, 1 **Galicia, Sierra de Ancares**, Degrada Monte da **Varg**, below *Ilex*, 29.V.1998, **leg.** Lompe **(cAss 1♂, 1♀**, Galicia, Liiiarcs, **1000m, beechwood, 29.V.1998**, leg. Lompe (cAss); **Id. 1** Cantabria, **Peña** Labra (NHMB); Id, **Navarra, Ibaneta**, 13.V.1997, **leg. Aßmann (coll.** Starke **1♀**, Lugo, Sierra **de** Ancares, Degrada, **Tres Obispos, 1100m**, 17.V.1997, **leg.** Starke **(co** Starke); Id, **1♀**, Logrono, Sierra de **la Demanda**, 1650m, 23.VII.1996, leg. **Zaballos & Wra (cSch); 1 J**, 19, Palencia, leg. Paganetti (NHMW).

Germany: 1 d [macropterous, apparently caught flying], Rheinland-Pfalz, Wachenheim, malaise tra 12.IX.1995, **leg.** Köhler **(cAss)**.

France: **1♀, Haute Pyrénées, Barèges**, 1600m, 12.VIII.1966, **leg.** Tempère (MIING); 2♂ d, Pyréné **Onciiiales**, Grotte Sic. Marie **L Preste**, 25.X.1974, **leg.** Curii (MIING); **3♂♂**, 39 9, Pyréné **Orientales**, Parcigoule, IS.IV.1977. **leg. Löbl** (MIING); **2♂♂, 8♀♀**, Pyrénées **Orientale** Montferrer-Corsavy, 14.IV.1977, **leg. Löbl** (MIING); 46♂, **1♀**, Pyrénées Oriciiialcs. Le Tec 15.IV.1977, **leg. Löbl** (MIING); **5♂♂**, 1♀, Pyrénées Orientales, **Forêt** d'Iraty, 21.1 23.V.197 leg. **Tempère** (MIING): Id. Pyrénées Orientales, **Larrau, 900m**, 22.V.1979, leg. Tempè (MIING); Id. **Pyrénées** Orientales, **Bielle, vallée** d'Aspeigt, 22.VI.1974, **leg.** Tempère (MIING 1♀, Pyrenées atl., **Forêt** des Arbailles, Grotte **d'Istaurdy**, 7.VI.**1998**, leg. **Lompe (cAss); 1 Bordeaux**, Gradignan, 11.VII.1955, **leg.** Tempère (MIING); Id, **Finistère**, Camaret, **11.IX.196** leg. **Tempère** (MIING): **4♂♂**, 49♀, Arriège, 2 **kiii S** de Puyvalador, 1400m, 24.VII.1975, **lc Löbl (MIING), 1♂, Arriège**, Forêt de **Carcanet**, 29.VI.1969, leg. Tempère (MIING); **2♂ 30♀**, Aude, **Axat, 1300m**, 10.VIII.1982 (MIING); **1♀**, Vaucluse, Muiii Ventoux, **S Bédoi** 1300m, leg. Besuchet (MIING); 3d♂, **1♀**, Vur. Si. Martin-Vesubie, W Vaiiaisnii, **1300** 15.X.1997, **leg.** Wolf (cSch); 2♂♂, 2♀♀, **Hautes** Alpes **de** Provence, Moricr. 4.VI.1974, Ir **Löbl** (MIING); 2♂♂, **Hautes Alpes de** Provence, **Braux, leg. Löbl**, 6.VI.1974 (MIING); Id. **1** Savoie, **Col Coche**, Moutiers, 1400m, 15.X.1981, leg. Löbl (MIING); **1♂, 1♀**, Savoie, 1 Bourget **du Lac. 24.VI.1975, leg. Löbl** (MIING); **1♂**, 29♀, Haute Savoie, Salève, 1 **kiii** W 1 Croisette, beechwood, 1250m, **11.IX.1993**, leg. Zerche (DEI); **8♂♂, 3♀♀**, Haute Savoie, 1 **Semmoz**, Crêt **de** Châtillon, 1650m, 26.VI.1980, **leg. Lübl (MIING); 1♂, 1♀**, Jura. Gu 26.IV.1997. leg. Cooter (cRou); **Id, Alpes** Mariiiiiies. Si. Jean, 5.VI.1974, **leg. Löbl** (MIING Id, Alpes Martimes, La Bollène, Colle de Turino, 1000m, 16.X.1997, leg. Stüben (cSch); **2♂ 2♀♀, Gard**, Mi. **Aigual, Col de Serreyrede, 1300m**, 6.IV.1980, **leg. Löbl** (MIING); **2♂♂, 7♀ Gard, Mt. Aigonal**, 1450m, 6.V.1980, **leg. Löbl** (MIING). **Locality not identified: 1♀**, Mi Telic Si. Auban, **A.** M. (MIING); Id, Col du Fa, B. **A.**, 5.V.1974, **leg. Curti (MIING). Local illegible:** 6 9 9 (MIING).

Switzerland: 1♀, **St.** Gallen, **Guggeienwald, 14.III.1960, leg. Gentina**, 'Othius brevipennis' [d Hugentobler], **coll.** Hugentobler (NMSG).

Swiss or Austrian **territory**: 1♀, Rätikon, **leg.** Ganglbauer (NHMW).

Austria: Vorarlberg: 1♂, Silbertal, Galgenzüge, 1500m, **10.V.1997**, leg. Kapp (cKap); **1♀, Laterns, Gerenfalben, 1938m**, *Calluna* litter, 12.IV.1997, leg. Kapp **(cKap); 1♀, Laterns, Agtenwaldalpe, Sacktobel**, 1450m, **25.I.1997**, leg. Kapp (cKap); Id. 2 9♀, Damüls, Portler **Horn, 1950m, 11.X.1996, leg. Kapp (cKap); 2♂♂, 1♀, Damüls**, Blauer See, Felskopf, **1940m, 11.X.1996, leg. Kapp (cKap); 1♂, Silbertal, Gaflunier-Alpe**, 1370m, 10.V.1997, leg. Brandstetter **(cKap); 5♂♂**, 2♀♀, **Silbertal, Winterjöchle, 1920m**, 7.VI.1997, leg. **Kapp (cKap); 3♀♀, Gargellen, Untere Röbi-Alpe**, 1750m, spruce litter. **18.IX.1997, leg. Kapp (cKap)**. Tirol: **1♂**, Innsbruck-Land, **Gnadenwald ob.** Walderalm, **1600m**, 13.VII.**1996, leg. Wolf (cAss).**

Czech Republic: 1♀, Moravia, Beskidy, Velký **Potok, 500-550m**, X.V.**1994, leg.** Moravec (cMor); **2♂♂, 5♀♀, Bohemia**, Nová **Ves** (MAKU); **1♀, Praděd**, leg. Weis (NHMW); 1♂, Bohemia, Boubín, VII.1934, **leg. Prock** (NHMW); Id, **Bohemia** (NHMW); **3♂♂, 2♀♀**, Moravia, **leg.** Rautenberg, Wingelmüller (NHMW).

Poland: Id, Wadowice, 1911, leg. Natterer (NHMB).

Czech or Polish territory: 2♂♂, 1♀, Silesia, 'Umg. Teschen', leg. Prock (NHMW).

Italy: Piemonte: 3d♂, 3♀♀ **[1♀ macropterous]**, Cuneo, Brondello W **Saluzzo, 750m, 28.VI.1997**, leg. Brandstetter, Kapp (cKap, **cAss): 2♂♂, 1♀, Val Varaita, Sampeyre, Becetto, 1140-1180m**, 28.VI.1997, leg. Kapp **(cKap, cAss): 1♂, 1♀, 'Sardaigne' (MHNG, cAss).**

Locality ambiguous: 1♀ [macropterous], 'Hungaria', leg. Brancsik (NHMW).

O. subuliformis is here for the first time reported from Sardinia. There is still **no** confirmed record from southeastern Austria; the specimen corresponding **to** the record from Anger, Steiermark (HOLZER 1995), **was** examined and proved **to** be ***U. brevipennis*** KRAATZ (see below that species). One macropterous ♂ was apparently caught flying with a Malaise trap in September, which suggests **that** dispersal by flight takes place shortly after eclosion from the puparium.

Othius wunderlei ASSING

Spain: 1♂, Andalucia, Algeciras (NHMW); **1♀**, Algeciras, leg. **Quedenfeldt** (NHMW); **1♂, 2♀♀, Andalucia, Sierra de Córdoba**, leg. **Ehlers** (NHMW); 1♀, Andalucia, Marbella, **1964**, leg. Frey (NHMH).

Othius crassus MOTSCHULSKY

Austria: southern Niederösterreich/Steiermark/Kärnten: 1♂, Niederösterreich, Baden, leg. Stolz (NHMH); 7♂♂, **5♀♀, Gesäuse-Alpen, 14.VII.1901**, 6.VII.1902, **leg.** Pinker (NHMW, cAss); **2♀♀, Kirchberg am Wechsel, 1886**, leg. Bayer (NHMW); 4♂♂, **6♀♀, Wechsel, 1888, 1889**, leg. Ganglbauer (NHMW); 7♀♀, Wechsel, leg. Hauser (NHMW); Id. Nied. Wechsel, **1500m, under** *Pinus mugo*, leg. Kaiser **(MHNG)**; 2♂♂, 1♀, **Hochlantsch, 24.VII.1903** (MAKB, **cAss); 1♂, 1♀, Hochlantsch**, 1891, **leg. Ganglbauer (NHMW); 1♀, Teichalpe**, 23.VII.1903 (MAKH); 1♀, Gesäusealpen, leg. Pinker (MHNG); 1♂, Rottenmanner Tauern, Trieben, Hauseck, 1980m, **14.VII.1997, leg. Siede (cAss); 1♀, Rottenmanner** Tauern, **Trieben, Großer Bösenstein**, 2200m, 14.VII.1997, leg. Siede (cAss); **1♂, 1♀ [♂** teneral], Hochschwabgebiet, Sackwiesensee, 1440m, **30.VII.1997**, leg. Kapp (cKap); **1♂, Raxalpe**, leg. Reimoser (MHNG); Id. Stuhleck, leg. Spacili (MAKB); 1♂, Stuhleck, leg. Hauser (NHMW); 1♂, **Eisenerzer** Alpen, Gurktaler Alpen, St. Lorenzen, Hochmoor, leg. Strupi (NHMW); 1♂, Kärnten, Wöllaner Nock, **46°46'36N, 13°49'41E, northern slope**, 2115m, **10.VII.1998**, leg. Zerche **(DEI)**; 1♀, Kärnten, SW Spittal, Hoher Staff, **46°44'04N, 13°25'58E, northern slope**, 2100m, sifted from **grass** and *Dryas*, 12.VII.**1998, leg.** Zerche (DEI); Id. **Kärnten, NE** Villach, **Gerlitzen, 46°41'48N, 13°54'48E, 1860m**, 13.VII.1998, leg. Zerche (cAss); **2♂♂, Kärnten**, Dobratsch, leg. Holdhaus, **Strupi (NHMW); 2♂♂, Dobratsch, 10.VII.1914, leg. Stöcklein** (NHMH): 3♂♂, **2♀♀, Kärnten, Villacher Alpe, 1190m**, litter in **mixed woodland, 18.IX.1998, leg. Schülke (cSch, cAss)**; Id. 2♀ 9. Kärnten, Gailtaler **Alpen**, Golz, leg. Strupi (NHMW, cAss); 2♂♂, **1♀, Gailtaler Alpen, Tschekelnock, leg. Strupi** (NHMW. cAss); Id. Stubalpe (NHMW); Id. Hochobir (MHNG); 2♂♂, Karawanken, Bodental,

'Cr.' (cAss); Id. Seetaler Alpen, Zirbitzkogel, leg. Winkler (NHMW); 1♂, 3♀♀, **Saualp**, Wolfsberg, Seetalerhütte, leg. **Sinipi** (NHMW); Id. Saualpe, leg. **Sinipi (NHMW); 1♂, 2♀♀**, Koralpe, Koglereck, 14.-17.VII.1973, leg. Meybohm (MHNG, **cAss); 1♂**, Koralpe, VII.192 leg. Schubert (NHMW); **5♂♂**, 1♀, Koralpe, 1890, 1891, leg. Ganglbauer (NHMW); 10♂♂, **5♀♀, Koralpe**, leg. **Holdhaus**, Spaeth, Wingelmüller (NHMW, **cAss)**; 2 d♂, **Koralpe** (NHMW **1♂**, 1♀, 'Styria', leg. Birnbacher, **Stöckel (NHMW).**

Slovenia: 7♂♂, 6♀♀, Pohorje **['Bachergebg.']**, 1892, **leg.** Ganglbauer (NHMW); 7♂♂, 2♀ Pohorje (NHMB, NHMW).

The records listed above are within the known range of distribution (Assing 1997b). One specimen collected in July **was** teneral.

Othius transsilvanicus GANGLBAUER

Paralectotypes (previously unexamined): 2♂♂, 2♀♀, same data as lectotype (NHMW): 1 **Ganglb.** 95, Buesecs Tr. (NHMW).

Poland: 1♀, **Bieszczady mountain** range, Wielka Rowka, 1270m, litter **of** *Alnus viridis*, **10.VI.19**(leg. Szujecki (MHNG).

Romania: 1♂, Munţii Rodna (MHNG); 3♂♂, 1♀, Munţii Rodna, 1896, leg. Ganglbauer (NHM cAss); 2♂♂, Munţii Rodna, Koronţis (NHMW); 2♀♀, Munţii Căliman, leg. Holdhaus (NHMI 1♂, 2♀♀, Sibiu ['Nagyszeben'], Ormay Sándor (NHMW); 2♂♂, S Sibiu, Cibin, leg. Orm (NHMW); 1♀, Munţii Făgăraş, leg. Deubel (NHMW); 2♂♂, 1♀, Schuler, 1896, leg. Spa (NHMW); 1♀, Schuler, leg. Bodemeyer (NHMW); 1♂, 3♀♀, Schuler, 4.VI.1910, leg. Pink (NHMW, cAss); 5♂♂, 4♀♀, Azuga (NHMW, cAss); 1♀, 'Praesba, Siebbg.', leg. Orm (NHMW); 1♂, 2♀♀, 'Siebbg.', leg. Ormay (NHMW); 4♂♂, 2♀♀, Negoiu, 1899, l Ganglbauer (NHMB, NHMW, cAss); 4♂♂, 2♀♀, N Munţii Ciucului, Hăgymas, leg. Holdha (NHMB, NHMW, cAss); 1♂, 1♀, Hăgymas ['N. Hagymás'] (NHMB, cAss); 4♂♂, 6♀ 'Carpates or., Foreszczenka' (MAKB, cAss); 1♂, Munţii Bucegi (MAKB); 1♂, Braşov, l Hopffgarten (NHMW); 3♂♂, 5♀♀, Braşov, leg. Deubel, v. Hopffgarten (NHMW); 3♂♂, 2♀ Braşov (NHMW, cAss); 1♂, Munţii Parîngu, 1899, leg. Ganglbauer (NHMB); 2♂♂, **[local** illegible] (NHMW).

Ukraine: Id, W L'vov. 'Janów' (MAKH).

Othius permutatus ASSING

Poland: Id. Bieszczady, Knemien, **1300m**, *Alnus viridis*, 11.VI. **1964, leg.** Szujecki (MHNG).

Slovakia: 1♀, Polon. **Karpaty** Mts., **Stužica**, 22.VI.1971, **leg.** Nohel (MHNG); Id, Vihorlát, l Chyzer (NHMW).

Ukraine: 2 d♂, 2 9 ♀. W **L'vov**, 'Janów' (MAKH. cAss).

Romania: 3♂♂, 3♀♀, Munţii Rodna, **cii.** 30 km E **Rodna**, Rareu **['Rareul']**, leg. **Holdhaus** (NHM NHMW, cAss); 1♂, **4♀♀**, Munţii Rodna, 1896, leg. **Ganglbauer** (NHMW, **cAss); 2♂♂**, 2 9 Gorgány ['Marmarosch'], 20.V. **1879, leg. Reitter** (NHMW. cAss); **2♀♀, Borsec**, leg. **Orm** (NHMW); Id, **2♀♀**, N Munţii Ciucului, **Hăgymas**, leg. Holdhaus (MHNG, NHMW); 4♂ **1♀, 'Carpates or., Foreszczenka'** (MAKB, cAss); 1♀. **S Braşov**, Schuler (MAKH); **2♂♂, 1** Munţii **Bucegi** (MAKB); **3♂♂, 2♀♀, S** Braşov, **Azuga** (NHMW. cAss); Id, 'Bukare (NHMW).

Locality not identified or not specified: Id. 'Hungar. bor., Szinnaikö.' (NHMW); 1♂, 1 'nordöstl. ungar. Carpathen', leg. **Reitter** (NHMW); **1♂, 1876, leg.** Reitter (NHMW).

Othius corpulentus COIFFAIT

Romania: 1 ♀, Munţii Parîngu, 1899, leg. Ganglbauer (NHMW); 1d, 1 ♀, Munţii Bihor, Baita, piatra Muncelului, 15.VII.1926, leg. Stöcklein (NHMB, cAss); 1 ♀, Munţii Bihor, Padis, 19.VII.1926, leg. Stöcklein (NHMB); 1d, Munţii Bihor, Stîna de Valé ['Biharfüred'], VI.1912, leg. Stolz (NHMB); 1 ♀, 'Serbien', leg. Merkl (NHMW).

The record from Serbia is based only on a ♀ and therefore not absolutely certain.

Othius svaneticus sp. n. (Figs 2 a - f)

Holotype ♂: Caucasus, Swanetien, Leder. Reitter / *Othius crassus* det. P. Heymes / Sammlung P. Rüschkamp, Eing. Nr. 1, 1964 / Holotypus ♂ *Othius svaneticus* sp. n., det. V. Assing 1998 (MARI)).
Paratype ♀: same data as holotype, but with identification label '*Othius pallidus*' (cAss).

Description: Measurements (mm) and ratios (HT, PT): HL: 0.95, 1.00; HW: 0.88, 0.92; PW: 0.98, 0.98; PL: 1.25, 1.19; EL: 0.70, 0.71; TiL: 0.80, 0.79; TaL: 0.69, 0.60; TL: 6.3, 7.0; HL/HW: 1.09, 1.08; HW/PW: 0.89, 0.94; PL/PW: 1.28, 1.22; EL/PL: 0.56, 0.60; TiL/TaL: 1.15, 1.30.

Size (apart from the slightly larger head), proportions, colour, punctation, and microsculpture as in the closely related *O. serratus* ASSING.

♂: secondary sexual characters similar to *O. serratus*, but sternite IX less distinctly serrate posteriorly (Fig. 2c), and lateral tergal sclerites IX apically slightly longer than obtuse (Fig. 2d); tergite VIII as in *O. serratus* posteriorly convex (Fig. 2e); aedeagus of similar morphology as in *O. serratus*, but parameres relatively longer, ventral process subapically less strongly constricted in ventral view, and lateral carinae longer than distinct in lateral view; sclerotized internal structures longer than hook-shaped (Figs 2a, b).

♀: tergite X of similar shape as in *O. serratus*, but posteriorly with several distinctly modified stout setae (Fig. 2f).

Phylogenetics and comparative notes: The new species is most closely related to *O. serratus*, quite obviously its sister species, with which it shares a similar external appearance and similar ♂ primary and secondary sexual characters. A sister species relationship is supported not only by the synapomorphic ♂ of the sclerotized internal structures of the aedeagus, the subapically distinctly constricted ventral process (ventral view), and the shape of the ♂ sternum IX, but also by biogeographical evidence. The distribution pattern of *O. serratus* and *O. svaneticus* is remarkably similar to that of the adelphotaxa *O. hebes* ASSING & SOLODOVNIKOV and *O. fastigatus* ASSING & SOLODOVNIKOV (ASSING & SOLODOVNIKOV 1998).

The monophylum *O. svaneticus* + *O. serratus* is apparently sister group of *O. ponticus* COIFFAIT + *O. ushakovi* ASSING & SOLODOVNIKOV (see ASSING & SODOVNIKOV 1998), as can be inferred from the following synapomorphic character states: sclerotized internal structures of aedeagus basally with pronounced dilatation, which is less distinctly sclerotized than the apex; outline of the ♂ tergite VIII ± irregular, dentate or serrate; margin of the ♂ tergite VIII posteriorly convex or pointed (also in *O. hebes* and related species); ♂ sternite IX anteriorly not distinctly bifid (also in *O. hebes* and related species), posteriorly convex (also in *O. permutatus* ASSING); ventral process subapically narrow and ± distinctly constricted (also in *O. corpulentus* COIFFAIT).

The tergite species provides strong evidence that the previously tentatively hypothesized closer relationship of *O. serratus* and *O. crassus* was mainly based on homoplastic characters and must consequently be rejected. The absence of modified setae near the hind margin of the ♀ tergite X, in particular, again proves to be an (aut-)apomorphic reduction, which occurs in various species groups of *Othius* (see also ASSING 1998a).

From other Caucasian congeners of the *O. crassus* subgroup, *O. svaneticus* is most readily distinguished by the aedeagus and the shape of the sclerotized internal structures. From *O. hebes* and *O. fastigatus* it is separated by its larger size. For distinction from *O. serratus* see diagnosis above.

Distribution: Like *O. fastigatus*, *O. svaneticus* is apparently endemic in the Svanetskiy khrebet in the Central Caucasus.

Othius brevipennis KRAATZ

Austria: 1 ♀, Großglockner, VI.1937 (NHMB); 1♂, 1 ♀, Oberösterreich, 'Jufen bei Alm', 24.IV.19[illegible] leg. Pinker (NHMW); 1♂, Salzburg, Gastein, Nassfeld, VI.1932, leg. Kaiser (MHNG); 1♂, [illegible] Salzburg, Hohe Taiicni, Fusch, 1892, leg. Sturany (NHMW, cAss); 4♂♂, 2♀ 'Niederösterreich', leg. Reitter (LMH, MARI)); 1♂, Niederösterreich, Lunz a. S. VI.1928, [illegible] Stöcklein (NHMB); 1♂, 2♀♀, Niederösterreich, Hohe Wand, X.1928, leg. Kaiser (MHNG); [illegible] Niederösterreich, Pitten, 1886, leg. Ganglbauer (NHMW); 2♂♂, 3♀♀, Niederösterrei[illegible] Kirchberg a. W., 1895, leg. Ganglbauer, Schuster (MARI), NHMW); 2♀♀, Kirchberg a. [illegible] 1886, leg. Ganglbauer (NHMW): 30♂♂, 26♀♀, Kranichberg, 1887, leg. Gangbauer (NHM[illegible] cAss); 2♂♂, 2♀♀, Wechsel, 1889, leg. Ganglbauer (NHMW); 2♂♂, 29♀, Wechsel (NHM[illegible] 1d, Niedere Tauern, Schladming (NHMW); 2♂♂, 2♀♀ [all teneral], Steiermark, Mariaz[illegible] X.1906, leg. Natterer (NHMB); 2♂♂, Steiermark, Bez. Weiz, Rabenwaldgebiet, nördl. An[illegible] Reith - Petz, ca. 600m, schimmelnde Heuhaufen, 1.XI.1982, leg. Mauerhofer (cHol); [illegible] Steiermark, Bez. Weiz, Anger, Zetz, Wrede Weg, 1000-1200m, 6.V.1989, leg. Holzer (cH[illegible] 2♀♀, Sicicniinrk, Hochschwabgebiet, Graßnitz bei Aflenz, Schießlingalm, 1300m, spruce lit[illegible] 18.II.1997, leg. Kapp (cKap); 1♂, Hochschwabgebiet, Seewiesen (NHMW); 3♂♂, 4♀ Steiermark, Turnau, VII.1931, leg. Frock (NHMW, cAss); 1d, Turnau (NHMH). [illegible] Steiermark, Wartberg/Mürz, 600m (NHMW): 1♂, Steiermark, Pleschkogel near Rein, 590[illegible] 20.VI.1995, leg. Zerche & Behne (DEI); 1d, Raxalpe, leg. Holdhaus (NHMW); 1♀, Steierma[illegible] Teichalpe 23.VII.1903 (MAKB); 1d, Stuhleck, 29.VII.1894 (cAss); 1♀, Stuhleck (NHM[illegible] 3♂♂, 2♀♀, Koralpe, leg. Holdhaus, Wingelmüller (NHMW): 2♂♂, 1♀, Steiner Alp[illegible] Kanker-Sattel, leg. Pinker (NHMW, cAss); 1d, 1♀, Kärnten, Gurktaler Alpen, Si. Lorenz[illegible] Hochmoor, leg. Strupi ['Othius myrmecophilus 'Kiesw.'] (NHMW); 5♂♂, 1♀, Kärnt[illegible] Mallnitz, Dössener Tal, Konrad-Hütte, 1500m, VI.1932, leg. Kaiser (MHNG, cAss); 4♂♂, 3♀[illegible] Kärnten, Villacher Alpe, 1190m, litter in mixed woodland, 18.IX.1998, leg. Schülke (c[illegible] cAss); 1♀, Kärnten, Gailtaler Alpen, leg. Sinipi (NHMW). 26♂, Gailtaler Alpen, Golz, [illegible] Strupi (NHMW, cAss); 2♂♂, 1♀, Gailtaler Alpen, Wiederschwing, leg. Strupi (NHMW, cA[illegible] 16. Gailtaler Alpen, 'Tschekelhock, leg. Strupi (NHMW); 1♀, Kärnten, Karnische Alp[illegible] Wolayer See, 3.-11.VIII.1949, leg. Schubert (NHMW). 3♂♂, Kärnten, Teufelsgraben [illegible] Villach, leg. Strupi (NHMW); 1♂, Eichholzgraben [illegible] Villach, leg. Sinipi (NHMW): [illegible] Karawanken, Hochobir (MHNG); 1♂, 3♀♀, Karawanken, Bodental, 'Cr.' (MHNG); 3♂[illegible] 3♀♀, Karawanken, Koschuta, leg. Strupi (NHMW); 1♀, Karawanken, Loibl, leg. Schu[illegible] (NHMW); 1♂, Karawanken, 'Illitsch', leg. Strupi (NHMW); 1♂, 1♀, Karawanken, 'Bärent[illegible] Kotschna', 1940m, 4.VII.1938, leg. Heberdey (NHMW); 1d, Karawanken, locality illegi[illegible] 14.VII.1914, leg. Stöcklein (NHMB); 1♀, 'Kärnten' (MARI)).

Slovakia: 1d, 'Úlhorná, SL Rudohori', 5.VI.1983 (cJan); 2♀♀, Tatry, leg. Brenske, Polins[illegible] (NHMW); 1♂, Tatry, 'Höhlenhain' (NHMH).

Slovenia: 1♀, W Postojna, Nanos, leg. Lokay (MAKB); 1♂, 1♀, Nanos, 1894, leg. Ganglbauer (NHMW); 2♂♂, 2♀♀, Pohorje, 1892, leg. Ganglbauer (NHMW); 2♂♂, 2♀♀, Pohorje (NHMW, cAss); 4♂♂, 2♀♀, 'Voleza Jama' [=Volče] (MAKB); 2♂♂, 1♀, 'Ursulaberg', leg. Strupi (NHMW); 4♂♂, Crna prst, Wochein, VII.1908, leg. Stöcklein (NHMH); 1♀, Crna prsi, leg. Ganglbauer (NHMW): 2♂♂, 2♀♀, Šmihel, Moirjc, 850m, 30.IV.1995, leg. Drovenik (cAss, cDro).

Italy: 1♀, Trentino, Renon (BZ), 1800m, 24.IX.1993, leg. Meyer (cZan); 4♂♂, Trciiiiiiu, Val Pusteria, San Cándido ['Innichen'], leg. Ludy (NHMW); 1♂, Trentino, Dobbiaco ['Toblach'], 1894, leg. Koelbel (NHMW); 1♀, Dobbiaco, leg. Reitter (NHMW); 1♀, Bolzano, 1879, leg. Reitter (NHMW).

Bosnia-Herzegovina: 1♂, Gacko, leg. Hoffmann (cAss).

Locality ambiguous, not specified, or not identified: Id. 1♀, 'Schneeberg', leg. Koltze (NHMU'); 3♂♂, 'Styria', leg. Pipitz (NHMW); 2♂♂, 'Vertatscha', leg. Holdhaus (NHMW, cAss); 1♂, 'Rošica, Alp. Car.', leg. Strupi (NHMW); Id, 'Umgb. Ledenitzen, Car.', leg. Strupi (NHMW); Id, 'Hung. sept., Höhle b. Szilicze', leg. Stolz (NHMB).

The single record of *O. brevipennis* froiii Switzerland (HUGENTOBLER 1966) was rcviscd. The specimen provcd to be a ♀ of *O. subuliformis* (see bciow that spccics). Four specimens collccicd iii October were teneral. Previously, teneral beetles liad bccii obscrved iii August aiid Scpiciiibcr (ASSING 1997b).

Othius korgei COIFFAIT

Northern Anatolia: 1♂, 1♀, Çaldere ['Akkus'], 3.-5.VI.1961, leg. Schubert (NHMW, cAss).

Only few spcciiiiciis of this apparently rare endemic have bccii collected in May, Juiic, aiid August.

Othius hebes ASSING & SOLODOVNIKOV

1♂, Caucasus, Likhskiy Khrebet ['Meskisch. Gb.'], leg. Leder & Reitter (NHMH).

Othius philonthoides WOLLASTON

Canary Islands: Hierro: 2♂♂, 1♀, El Gretime, 8 km W Frontera, 800m, Fayal-Brezal, 21.I.1998, leg. Behne (DEI, cAss); Zdd. 1♀, Lomo Blanco, 6 kiii W Frontera, 550m, Fayal-Brezal, 25.I.1998, leg. Behne (DEI, cAss); 1♂, 3♀♀, El Brezal near Tabano, northern slope, 800-900m, Fayal-Brezal, 22.I.1998, leg. Behne (DEI); 6♂♂, 2♀♀, same dala. but 850m, 17.I.1998 (DEI, cAss); 2♂♂, 3♀♀, Raya la Llana near Hoya de Fileba, 1350m, Fayal-Brezal, 19.I.1998, leg. Behne (DEI, cAss); 2♀♀, Mia. de la Casila, 900m, *Pinus canariensis* liiler, 19.I.1998, leg. Ikliiic (DEI); 3♂♂, Camino de San Salvador near Tabano, 1325m, Fayal-Brezal, 17.I.1998, leg. Ikliiic (DEI, cAss); Id. 3♀♀, San Andrés, 1100m, 5.II.1982, leg. Machado (cMac, cAss); Id. Timor, 1120m, 5.II.1982, leg. Machado (cMac).

Wing development in this spccics is dimorphic: 6 out of 28 spcciiiiciis examined Iroiii Hicrro were macropterous and ilic remainder brachypterous. 22 speciiiiciis recently collected in Gran Canaria (ASSING 1998a), in contrast, wcrc macropterous.

Othius palmaensis ASSING

Canary Islands: La Palma: 2♂♂, Llano los Caños, 28.VI.1996, leg. R. García (cGar, cAss); 10♂ 14♀♀, 1 second-instar, 1 third-instar larva, SW Franceses, Bco. de Los Hombres, 800m, litte *Castanea* and *Erica*, 1.IV.1999, leg. Assing, Wunderle (cAss, cWun); 13♂♂, 10♀♀, 1 fi instar, 1 second-instar larva, Roque Faro, 1000m, *Pinus canariensis* wood with *Myrica f* 1.IV.1999, leg. Assiig. Wuiiderlc (cAss, cWun); 1d, 2♀♀, 1 second-instar, 2 third-instar lar S Gallegos, 500m, Laurisilva with *Castanea*, 1.IV.1999, leg. Assiig. Wunderle (cAss, cW 16♂♂, 24♀♀, 2 first-instar larvae, Cumbre Nueva, E Refugio El Pilar, 1350m, Fayal-Br 4.IV.1999, leg. Assing, Wuiiderlc (cAss, cWun); 3♀♀, 1 first-instar, 1 secoiid-instad, 1 th instar larva, Cumbre Vieja, near Roque Niquiomo, 1400m, Fayal-Brezal, 8.IV.1999, leg. Ass Wuiiderlc (cAss, cWun); 6♂♂, 79♀♀, 7 first-instar, 4 second-instar larvae, Cumbre Vieja, Ro Niquiomo, 1300m, Fayal-Brezal, 8.IV.1999, leg. Assiig, Wuiiderlc (cAss, cWun); 26 23♀♀, 15 first-instar, 13 second-instar, 3 third-instar larvae, N Llano Negro, 650m, Fa Brezal, 12.IV.1999, leg. Assiig. Wuiiderlc (cAss, cWun); 1♀, 1 second-instar larva, same d but 800m (cAss).

Previously, oiily the iypc spcciiiiciis liad bccii known (ASSING 1997a). *O. palmaensi* apparently widespread iii La Palma froiii ilic north of ilic island to ilic Cumbre Vieja the south aiid was observed at altitudes Iroiii 500 to 1500m, boiii in Fayal-Brezal an *Pinus* woodland. Larvae of all instars wcrc taken on various occasions in March April. In the rccciiily collected material, intraspecific variation iii body size was foun be remarkable.

Othius chrysurus REITTER

Tajikistan: Id, Ramit V., 2200-2900m, 28.-29.VII.1992, leg. Kasantsev (NHMH); 2d♂, 4♀♀ kiii S Nurek, 1000-1300m, 14.-17.IV.1992, leg. Kasantsev (NHMU, cAss); 1♀, Hassar Anzob-Pass, 3373m, 15.-19.VII.1992, leg. Kasantsev (NHMH); 1♀, 40 kiii N Dushanbe, Ch Obicarm, 10.V.1988, leg. Majer (NHMB); 1♀, Peter I. chrebet, N Severno, Ganuscho Rodnichka, 2000-2100m, 26.VI.1969, leg. Michailov (NHMB); 1♀, Pamir, Miiksii, 'Suk Schlucht', 2800m, VII.1990, leg. Schmidt (MHNG).

Uzbekistan: 1♀, 70 kiii NE Tashkent, Ak-Tash, Ugam Mis., 28.IV.1988, leg. Majer (NHMB); 'Buchara, Hissar Geb.' (NHMU)..

Kirghizia: Id. 1♀, N-Kirghizia, Kara-Balta reg., Aksu river, 23.V.1995 (NHMW, cAss).

The upper altitude limit of this spccics is now extended lo 3373m. Soiiic of the specim indicated above wcrc collected in April. Previously, oiily records Iroiii May through J liad bccii kiiown (ASSING 1997b).

Othius turcmenus FAUVEL (Figs 3 a - d)

Kazakhstan: 1♀, Charyn val. W Chundza, 800m, 10.-13.VI.1993, leg. Schawaller (cAss).

Kirghizia: Id, 'Talass Thal', VI.1908, leg. Fischer (ZIN); 1♀, Przheval'sk, VI.-VII.1905, Pedashenko (ZIN).

Previously, oiily the two iypc spcciiiiciis li-oiii Alma-Ata in southern Kazakhstan been kiiown. The spccics is here for ilic first tiiiic rccordcd Iroiii Kirghizia. The ♀ sp men froiii Kazakhstan indicated abovc differs Iroiii ilic lectotype in slightly smaller siz relatively shorter head aiid relatively largcr eyes; iii addition, the setae on tergum X somewhat stouter. Siiicc a ♂ of this spccics has bccoiiic available for the first tiiiic, th priiiiary aiid sccoiidary sexual characters are licrc dcscribcd:

♂: protarsomeres I - IV strongly dilated, distinctly iiiorc so than iii ♀; sternum VII

modified; sternum VIII weakly concave posteriorly, wiilioui modified pubescence; Iiiiid margin of tergum VIII truncate; sternum IX witli loiig aiid thin pubescence, iis posicrior iiiargiii deeply concave, Iiiiid angles wiili short spine-like terminal setae (Fig. 3c); laicral tergal sclcriics IX iii lateral vicw siciidcr, apically rouiidcd and wiili one loiig terminal seta (Fig. 3d); aedeagus of siiiiilar sliapc as in *O. chrysurus* RETTER aiid *O. sinuosus* ASSING; internal sac of iiicdiaii lobe witli 6 sclerotized structures: a loiig aiid in ventral vicw apically dilaicd iiicdiaii basal, a loiig iiicdiaii apical and two pairs of loiig aiid slender Iaicral structures (Figs. 3a, b).

Based on ilic external iiiid ilic d sexual characters, *O. turcmenus* is most siiiiilar aiid apparently also most closely rclaicd to *O. sinuosus* ASSING from ilic western Himalayas, wiili wliicli ii shares tlic presumed apomorphic micropunctation of ilic elytra, ilie (also apomorphic) ± isodiametric microsculpture of tlic abdomen, ilic siiiiilar morphology of tlic acdcagus. aiid a similar sliapc and arrangement of internal structures. *O. turcmenus* is distinguished from O. *sinuosus*, however, by numerous characters such as ilic prcsciicc of a posicrior pair of frontal piiiiciiircs. the more slciidcr head, ilic much denser aiid more rugose elytral micropunctation, the shallower transverse impression on tlic abdominal terga III - Vi, the different shape and chaetotaxy of the ♂ sternum IX, iiic shorter parameres, and by tlic loiigcr lateral and ilic differently shaped iiicdiaii siruciurcs of ilic iiitcriial sac of the iiicdiaii lobe (scc ASSING 1998b). For illustrations of the ♂ sexual characters of *O. chrysurus* RETTER scc ASSING (1997b).

Othius loeffleri SCHEERPELTZ 1Y76 (Figs 4 a-d)

Othius loeffleri SCHEERPELTZ 1976b: 124f.

Othiogeiton nepalensis SCHEERPELTZ 1976a: 32ff., syn. n.

Type examined: Holotype ♂: ♀ [sic]/ Nepal, Prov. Nr. 2 East, Beding/ Rolwaling, 18.VIII.1964, 3940m, leg. Löffler/ Staatsslg. München/ Othius Löffleri Scheerp./ Holotypus/ Typus *Othius Löffleri* O. Scheerpeltz/ *Othius löffleri* nov. spec., Jci. Scheerpeltz, 1966 (ZSM).

In the course of ilic recent rcvisioii of Himalayan *Othius* (ASSING 1998b), Ilic holotypc was looked for, but not found, iii the collections of ilic ZSM. It was oiily some time after ilic publication of the rcvisioii that the specimen, wliicli had in fact been out on loan, was made available to me for examination. The holotype, according to ilic original description and to ilic labels attached to ilic pin a ♀, fortunately proved to be a ♂. A comparative diagnosis of tlic species is presented below.

Diagnosis: Mcasiirciiiciiis (mm) and ratios (HT): HL: 1.31; HW: 1.24; PW: 1.33; PL: 1.54; EL: 0.87; TiL: 1.04; TaL: 0.85; TL: 8.5; HL/HW: 1.06; HW/PW: 0.93; PL/PW: 1.16; EL/PL: 0.56; TiL/TaL: 1.21.

Colour of body including elytra aiid appendages blackish browii to black.

Externally highly siiiiilar aiid most closely related to *O. longicuneatus* ASSING of Ilic *O. infestus* spccics group.

Colour somewhat darker than iii *O. longicuneatus*, whole body ± uniformly dark browii; antennae sligliily slioricr witli the penultimate antennomeres iiiorc siroiigly transverse aiid the apical antennomere slioricr. Elytra witli lcss well-defined aiid lcss evenly distributed macropunctation, and with distinct, though lcss homogeneous micropunctation than iii O. *longicuneatus*.

♂: sternum VII weakly concave posteriorly, in central posicrior area depressed and wiili

slightly condensed, loiig aiid subercct pubcsccicc (in *O. longicuneatus* unmodific sternum VIII wiili weakly concave Iiiiid margin, pubescence rather dark, long and mo rately dciisc; Iiiiid iiiargiii of sternum IX weakly concave aiid with weakly pronoun Iiiiid angles, posterior iiicdiaii area wiili dciisc aiid sliori yellowish pubcsccicc (Fig. 4 lateral tcrgal sclcriics IX witli two terminal setae, in lateral view broader and apica more abruptly tapering than iii *O. longicuneatus* (Fig. Jd); acdcagus wiili broad paraii res, median lobe wiilioui disiiiici carinae; iiitcriial siic witli wiili 4 distinctly sclerotiz siructurcs: a vcry long iiicdiaii basal, a shorter, apically siroiigly bent median apical, a a pair of very loiig lateral siruciurcs; flagellum thin aiid wiili ca. 10 coils (Figs 4a, b).

♀: scc diagnosis of *O. nepalensis* in ASSING (1998b).

Comparative notcs: Aiiioiig tlic closcly rclaicd Himalayan species of tlic *infestus* group, O. *loeffleri* shares a vcry long iiicdian basal structure iii ilic iiitcriial siic tlie acdcagus oiily wiili *O. longicuneatus* from cciiiral Ncpal, from wliicli this species disiiiiguislicd particularly by ilic diffcrciii sliapc aiid pubcsccicc of ilic ♂ sternum V aiid VIII, the broader parameres, aiid tlic iiitcriial siruciurcs of tlic acdcagus: the distinc fewcr coils of ilie flagellum, the iiiorc massive aiid much more siroiigly bent medi apical structure, ilic loiigcr median basal and ilic loiigcr lateral structures (see diagno above aiid ASSING 1998b).

Comments: Apart from tlic slightly larger size of tlic Iioloiypc of *O. loeffleri*, I ha been unable to find any characters distinguishing it from ilic ♀ holotype of *O. nepalen* (SCHEERPELTZ). Since size is subject to considerable intraspecific variation in ilic gen aiid as tlic type localitics of both spccics are oiily some 40 kiii apart, ilic two holoty are Iicrc hypothesized to represent ilic same species. Both *U. loeffleri* aiid *U. nepalen* were dcscribcd in tlie same year, journal, and voluiiic. O. *loeffleri* is here chosen as t sciiior iiaiiic, siiicc iis Iioloiypc is a male aiid in much better condition. Thus, ilic fol wing synoiiyniy is established: *O. loeffleri* SCHEERPELTZ 1976 = *O. nepalen* (SCHEERPELTZ 1976), syn. n.

Distribution and bionomics: *O. loeffleri* is known oiily from tw localitics iii ilic north of eastern Ncpal (Khumbu Himal, Rolwaling Himal), where it w collected at an altitude of 3900 - 4500m in May aiid August.

Othius bhutanensis sp. n. (Figs 5 a-e)

Hlolotypc ♂: Bhutan: Paro District, Chiley-La, 3000-3500m, 10.-13.7.1990, leg. Holzschuh (001 Holotypus ♂ *Othius bhutanensis* sp. n., det. V. Assing 1999 (NHMW).

Description: Measurements (HT; iii mm): HL: 1.62; HW: 1.56; PW: 1.65; P 1.95; EL: 0.98; TiL: 1.37; TaL: 1.01; TL: 10.8.

Externally siiiiilar to *O. ruficornis* CAMERON. Colour blackish browii, wiili ilic legs a ilic antennae reddish to brown.

Head slightly loiigcr than widc (HL/HW: 1.04), almost as widc as pronotum (HW/P 0.94); cycs relatively small, 0.30x ilie length of postgenae in lateral vicw; temples behi cycs dilated in dorsal view; dorsal surface witli distinct fine iiiicrosculpiurc predon nantly coniposcd of isodiametric aiid short traiisvcrse meshes; micropunctation i visible; macropunctation moderately dciisc in lateral aiid in posterior arca, central dor rcgioii free of punctures; frons wiilioui posterior pair of punciurcs, aiiicrior punciui situated iii ± roundish impressions, each witli 2 - 3 additional puncíurcs; frontal furro shallow, but distinct.

Pronotum wiili subparallel lateral iiiargiiis. weakly oblong (PL/PW: 1.19); dorsal surface somewhat sliiiiy, wiili weak microsculpture predominantly composed of transverse striae, iii aiiicrior region also of transverse meshes; diseal punctation pattern similar to *O. infestus* ASSING (cf. Fig. 8f in ASSING 1998b).

Elytra relatively short (EL/PL: 0.50); punctures rather sparse, separated by interstices 2 - 4s wider than ilic punctures; dorsal surface weakly shining, witli distinct, but rather shallow isodiametric microsculpture; iiiiid wings reduced; scutellum wiili shallow microsculpture aiid some punctures; TiL/TaL: 1.36.

Abdomen witli fine and sparse punctation; iiiicrosciilpiurc near aiiicrior margins of terga relatively weak and ± isodiametric, on remainder of tergal surfaces barcly noticeable; tergum VII without palisade fringe.

♂: protarsi siroiigly dilated; sterna III - VII unmodified; Iiiiid iiiargiii of sieriiuiii VIII iruiicalc; sternum IX broad, distinctly dilated in anterior half, aiiicriorly siroiigly bifid, witli weakly concave liiiid margin, aiid iii central posterior area wiili dciisc aiid short yellowish pubescence (Fig. 5d); lateral tergal sclcriics IX iii lateral view rntlicr short (Fig. 5e); median lobc of similar shape as in *O. ruficornis* and related species, ventral process without noticeable basal median carina; parameres apically distinctly dilated; internal sac with a rather large median basal, a iiiiicli slioricr median apical, a pair longer wide-based, aiid a pair or slioricr aiid thinner lateral structures; flagellum iiiiii aiid witli >20 coils (Figs 5a-c).

♀: unknown.

Comparative notes and phylogenetics: *O. bhutanensis* is closely rclaicd to *O. ruficornis* CAMERON, *O. infestus* ASSING aiid rclalcd species froiii tlic eastern Himalayas, wiili wliicli it shares ilic synapomorphic microreticulation of ilic clyirn. a similar pronotal punctation pattern, and the general morphology of tiic ♂ sexual characters. It is tlic easternmost representative of this species group and currently ilic oiily species of *Othius* known from Bhutan. From *O. ruficornis* (Sikkim), it is readily distinguished by siiiallcr size, iiiiicli weaker microsculpture of tlic forebody, ilic broadcr, shorter, and aiiicriorly more siroiigly bifid stsriiuiii IX, ilic slioricr and dciiscr pubescciicc of sicriiuiii IX, aiid the different shape aiid number of internal structures of ilic aedeagus, especially ilic presence of a large median basal structure. The oiily species of tlic *U. infestus* group, in which tlic basal iiicdiaii structure is largcr than ilic apical iiicdiaii siriiciurc. are ilic distinctly siiiallcr *O. loeffleri* SCHEERPELTZ aiid O. *longicuneatus* ASSING from eastern and central Nepal, respectively, biii their internal structures are of different shape, and oiily one pair of lateral structures is present.

Othius medius SHARP

Japan: 1♀, Osaka pref., 8.V.1958, leg. Hayashi (ZIN).

Othius rosti BERNHAUER

Russian Federation: 1♂, Primorskiy Kray, Natural Reserve Sichote-Alin, Blogodatno lake, 17.-22.VI.1998, leg. Sundukov (eSch); 2♂♂, 1♀, Amur icrriiory, Korsakovo (100 km Iroiii Svobodnij), in litter near Amur river, 6.&7.VIII.1959, leg. I. Kerzhner (ZIN).

Othius rufipennis SHARP

Japan: 1♂, 'Japonia' (ZIN).

China: 1♀, 'China' (NHMB).

Othius maculativentris ZHENG

China: 28♂♂, 24♀♀ [3 ex. teneral], Sichuan, Gongga Shan, Hailuogou, in front of Glacier 2850m, 29°35'N 102°00'E, 7.VII.1998, leg. A. Smetana (eSme, eAss); 1♂, Gongga Shan n Muxi, surroundings of Camp III, 3000-3300m, 25./27.VII.1994, leg. Heinz (eAss).

Othius sculptipennis ASSING

China: 4♀♀, S Sichuan, pass 20 km S Muli (Bowa), 27°45'N, 101°13'E, ca. 3500m, mixed for 28.-29.VI.1998, leg. Turna (NHMW, eAss).

Previously, only iiic ♀ holotype had beeii kiiowii.

Othius fibulifer ASSING

China: 2♀♀, W Sichuan, road Qianning-Danba, pass 15 km NE Qieiiiiiiig, 30°35'N, 101°41 alpine meadows, 11.VII.1998, leg. Turna (NHMW, eAss).

Othius opacipennis CAMERON (Figs 6 a-d)

China: 1♂, S Sichuan, road Meigu-Leibo, Daliang Shan mts., pass 15 km NE Meigu, 28°25 103°17'E, 26.VII.1998, leg. Turna (NHMW).

O. opacipennis, wliicli was kiiowii oiily lroiii two localities in Yunnan, biii was expec to have a wider disiribuiion (ASSING 1999), is here for the first time recorded fr Sichuan. It is now possible to describe the previously uiikiiuwii ♂ sexual characters:

♂: protarsomeres I-IV moderately dilated, sexual dimorphism noticeable, bui not p nounced; abdominal sterna III - VII unmodified; sicriiuiii VIII siroiigly tapering pos riorly, liiiid iiiargiii convex, oiily iii ilic iiiiddle ± truncate; lateral tergal sclcriics IX lc aiid narrow, apically wiili loiig aiid acuic process (Fig. 6d); sicriiuiii IX loiig aiid narr witli dark, loiig aiid dcnsc pubescciicc; Iiiiid margin of sicriiuiii IX of highly distinct shape, iiiiid aiiglcs very loiig and acute, between hind aiiglcs aiid iiiiddle dentate (F 6e); aedeagus of rciiiarkable aiid highly distinctive iiiorpiiulogy: iiicdian lobe very lc aiid slciidcr, lateral parts of ventral process dorsally fused over considerable distan internal sac witli a pair of stouter and a pair of iiiiii lateral siruciurcs. apical med struciurc apparently present, bui very weakly sclcrotized, barcly iioiiccablc; flagell wiili ca. 15 coils, distal coil widened; paraiiicres very long and slciidcr, wiili 5 apical a some additional subapical setae (Figs 6a, b).

Coniparative notes arid phylogenetics: Tlic 6 sexual cl racters reveal that, without doubt. *O. opacipennis* is most closely related to *O. atav* ASSING, with which it shares the following synapomorphies: a rciiiarkabiy loiig and sl dcr (*Atrecus*-type) iiicdiaii lobc, very long paraiiicres, small aiid weakly sclerotized int nal structures, tlic absciicc of a basal iiicdiaii structure, apically very acute lateral ter sclcriics IX, a loiig aiid iiarrow sieriiuiii IX, aiid ilie iiiicropuiiciatioii of ilic elytra. *opacipennis* is, Iiowevcr, readily distinguished froiii *O. atavus* by its larger size, ilic mu

broader and relatively shorter head, the black elytra, the much more distinct and denser elytral micropunctation, the apically more acute lateral tergal sclerites IX, the anteriorly only weakly bifid and posteriorly differently shaped ♂ sternum IX, and the slightly different shape of the aedeagus.

Errata

In two previous studies (ASSING 1997b, 1998b), some of the measurements for TiL and TaL were calculated using an incorrect factor. The figures given for TiL and TaL are to be corrected by the factor 1.54 for *O. zolotarevi* and *O. jadwigae*, and by the factor 2.02 for the following species (in alphabetical order): *O. acifer*, *O. apicalis*, *O. chrysurus*, *O. clavifer*, *O. conifer*, *O. corniger*, *O. extraordinarius*, *O. flavicaudatus*, *O. grandis*, *O. infestus*, *O. longicuneatus*, *O. monticola*, *O. nepalensis*, *O. parallelicepsis*, *O. perreaui*, *O. pokharensis*, *O. punctulatus*, *O. ruficornis*, *O. sinuosus*, *O. truncatus*, *O. turcmenus*, *O. virgifer*.

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Zusammenfassung

Eine Bearbeitung bisher unrevidierten Materials ergab weitere Daten zur Verbreitung und Bionomie von 37 Arten der paläarktischen Gattung *Othius*, die nunmehr annähernd 100 Arten umfaßt. Die zuvor unbekannten primären und sekundären Sexualmerkmale der Männchen von *O. turcmenus* FAUVEL, *O. loeffleri* SCHEERPELTZ und *O. opacipennis* CAMERON werden erstmals beschrieben und abgebildet. Drei Arten werden beschrieben und von den jeweils nächstverwandten Arten unterschieden: *O. jumlaensis* sp. n. aus Nepal, *O. svaneticus* sp. n. aus dem Kaukasus und *O. bhutanensis* sp. n. aus Bhutan. Ihre Geschlechtsmerkmale werden abgebildet. Eine Untersuchung des Holotypus von *O. loeffleri* SCHEERPELTZ ergab die folgende Synonymie: *Othius loeffleri* SCHEERPELTZ 1976 = *Othiogeiton nepalensis* SCHEERPELTZ 1976, syn. n.

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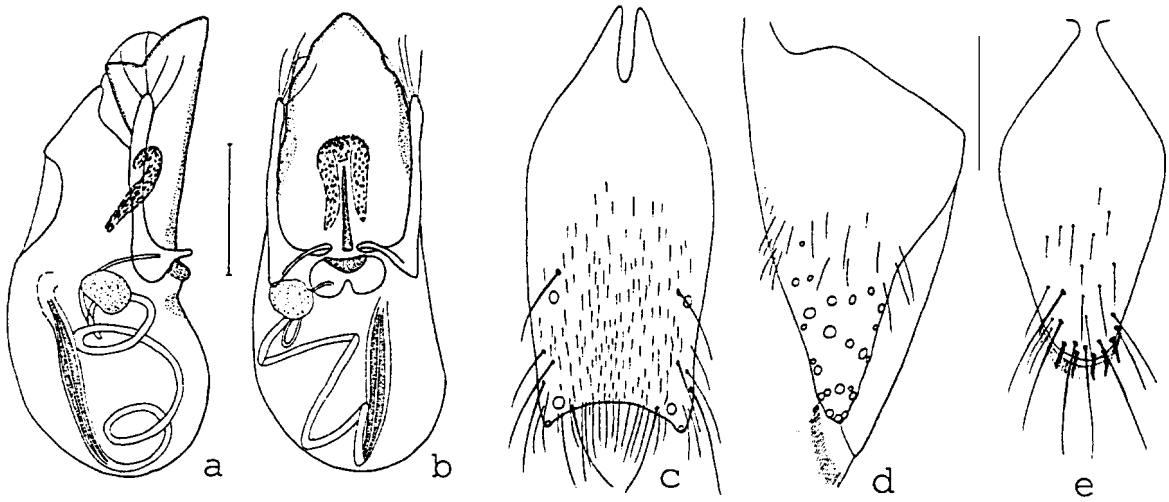

Fig. 1: ***U. jumlaensis*** sp. n. (a - d: HT): aedeagus in lateral (a) and in ventral view (b); ♂ sternum IX (c); ♂ lateral tergal sclerite IX and tergum X in lateral view (d); ♀ tergum X (e); long setae partly omitted in c-d. Scales: 0.25 mm.

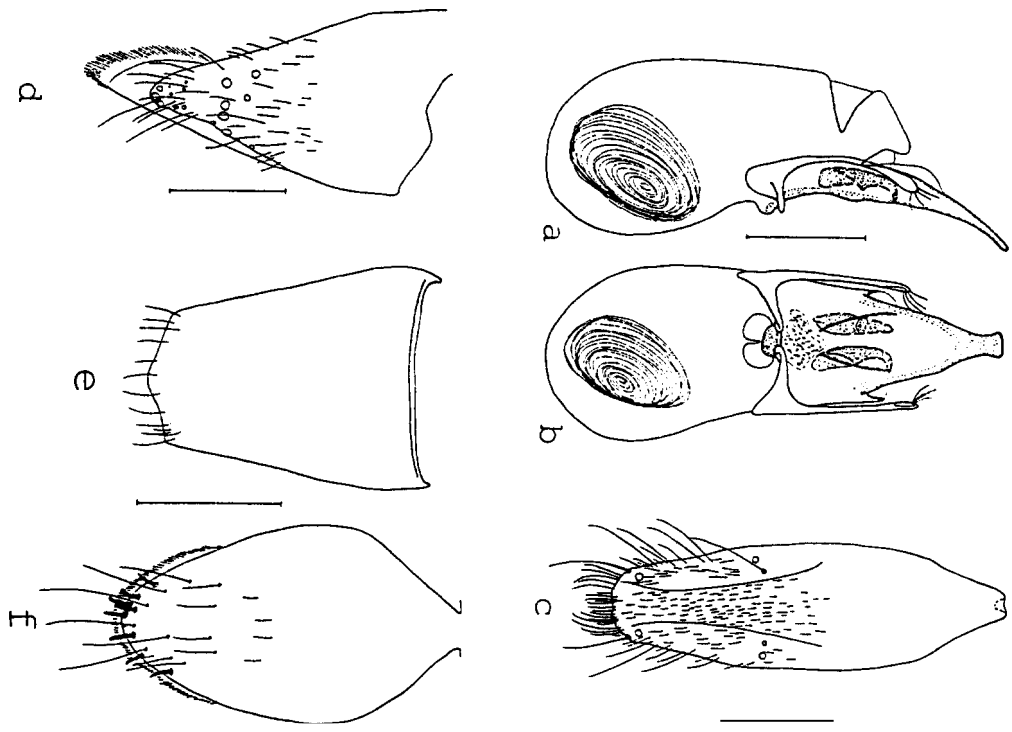

Fig. 2: *O. swanticus* sp. n.: aedeagus in lateral (a) and in ventral view (b); ♂ sternum IX (c); lateral tergal sclerite IX and tergum X in lateral view (d); ♂ tergum VIII (e); ♀ tergum X (f); se partly omitted in c - e. Scales: a-d, f: 0.25 mm; e: 0.5 mm.

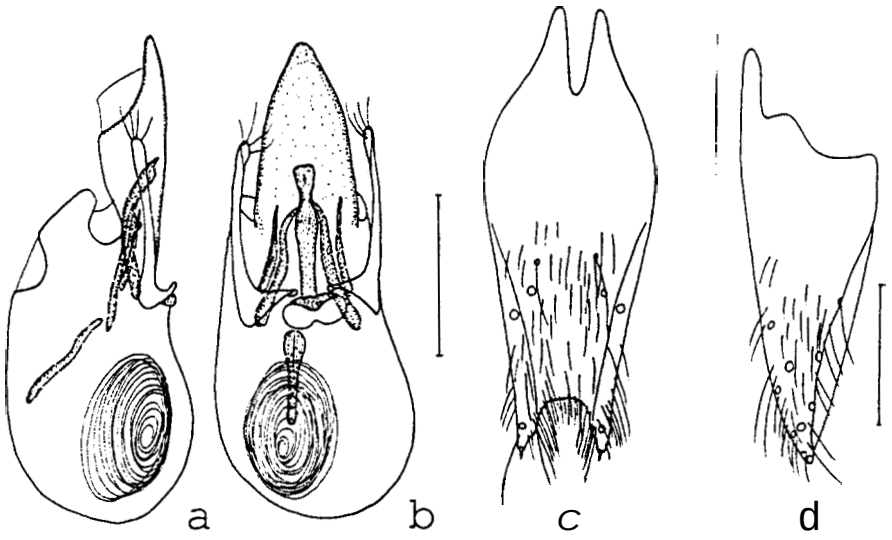

Fig. 3: *O. turçmenus* FAUVEL ♂: aedeagus in lateral (a) and in ventral view (b); sternum IX (c): lateral tergal sclerite IX and tergum X in lateral view (d); setae partly omitted in c-d. Scale: 0.5 mm.

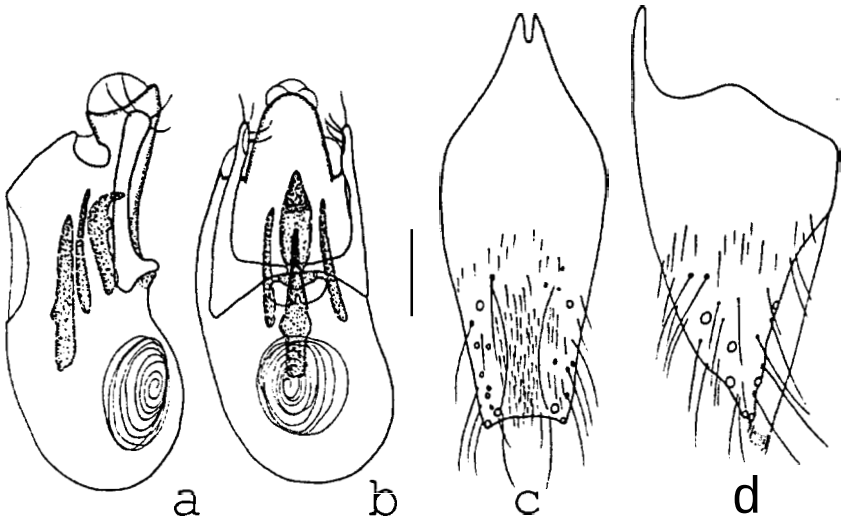

Fig. 4: *O. [illegible]* SCHUSTERITZ (HT): aedeagus in lateral (a) and in ventral view (b); ♂ sternum IX (c); ♂ lateral tergal sclerite IX and tergum X in

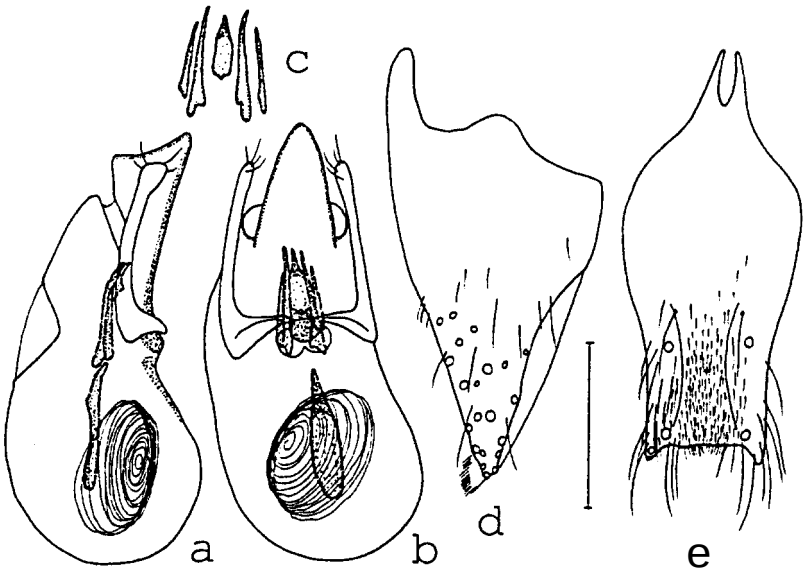

Fig. 5: O. *bhutanensis* sp. n. (HT): aedeagus in lateral (a) and in ventral view (b); apical internal structures of median lobe in ventral view (c); sternum IX (d); lateral tergal sclerite IX and tergum X in lateral view (e); long setae omitted in d-e. Scale: 0.5 mm.

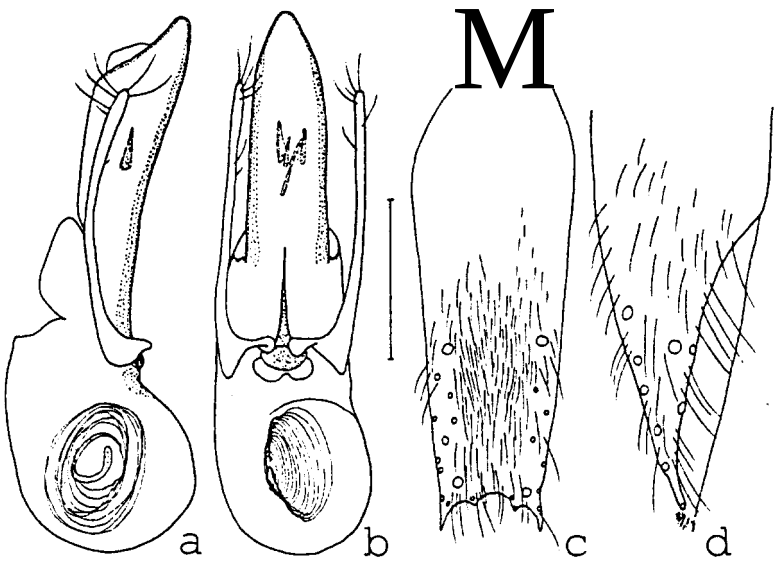

Fig. 6: O. *opacipennis* CAMERON ♂: aedeagus in lateral (a) and in ventral view (b); sternum IX (c); lateral tergal sclerite IX and tergum X in lateral