

ALESSANDRO MASCAGNI & CINZIA MONTE

**SECONDO AGGIORNAMENTO ALLA CHECKLIST
DEGLI HETERO CERIDAE DELLA REGIONE AFROTROPICALE**
(Coleoptera, Heteroceridae)

Riassunto. Vengono riportati nuovi dati sulla distribuzione di alcune specie di Heteroceridae della regione Afrotropicale; viene inoltre segnalata, per la prima volta, la presenza in Botswana di *Augyles namibiensis* Skalický, in Burkina Faso di *Augyles parvus* (Grouvelle), *Heterocerus elongatus* Grouvelle e *H. nodieri* Grouvelle, in Mozambico di *Augyles pallens* (Charpentier), *Heterocerus atroincertus* Charpentier, *H. elongatus* Grouvelle, *H. ornatus* Grouvelle, *H. thebaicus australis* Charpentier, in Sud Africa di *Heterocerus nodieri* Grouvelle, nello Zaire di *Augyles niloticus* (Grouvelle) ed *Heterocerus abyssinicus* Mamitza, in Zambia di *Heterocerus abyssinicus* Mamitza.

Abstract. *Second updating of the knowledge on the Afrotropical Heteroceridae (Coleoptera, Heteroceridae).* New data are reported on the distribution of some Heteroceridae species from Afrotropical region. For the first time are recorded: *Augyles namibiensis* Skalický from Botswana, *Augyles parvus* (Grouvelle), *Heterocerus elongatus* Grouvelle and *H. nodieri* Grouvelle from Burkina Faso, *Augyles pallens* (Charpentier), *Heterocerus atroincertus* Charpentier, *H. elongatus* Grouvelle, *H. ornatus* Grouvelle, *H. thebaicus australis* Charpentier from Mozambico, *Heterocerus nodieri* Grouvelle from South Africa, *Augyles niloticus* (Grouvelle) and *Heterocerus abyssinicus* Mamitza from Zaire, *Heterocerus abyssinicus* Mamitza from Zambia. Finally is reported the checklist of known species for every african nations.

Key words. Coleoptera, Heteroceridae, Afrotropical region, Palaeartic Africa, faunistic, checklist.

Introduzione

A distanza di quattro anni dalla pubblicazione del primo aggiornamento (MASCAGNI & MONTE, 2005) e a seguito di tutti i nostri precedenti lavori sugli Heteroceridae della regione Afrotropicale (MASCAGNI & MONTE, 2000, 2001, 2002, 2003a, 2003b e MASCAGNI, 2007), che hanno comportato l'esame e la determinazione complessiva di oltre 15000 esemplari provenienti da 34 musei e 7 collezioni private, si rende ora necessario fornire nuovi dati relativi a questa area geografica. La maggior parte del materiale citato in questo lavoro (per un totale di 2650 esemplari) proviene dalle collezioni del Transvaal Museum of Natural History di Pretoria (South Africa) e dell'Institut royal des Sciences naturelles de Belgique (Bruxelles).

Acronimi dei Musei e collezioni private:

- CMF Coll. C. Monte, Firenze, Italy.
CMS Coll. A. Mascagni, Scandicci (FI), Italy
CSU Coll. S. Skalický, Ustí nad Orlicí, Czech Republic.
ISBN Institut royal des Sciences naturelles de Belgique, Bruxelles, Belgique.
MZUF Museo di Scienze Naturali dell'Università degli Studi di Firenze, sezione di Zoologia "La Specola"
SANC South African National Collection of Insects, ARC-Plant Protection Research

Institute Pretoria, South Africa.
SMNS Staatliches Museum für Naturkunde, Stuttgart, Germany.
TMSA Transvaal Museum of Natural History, Pretoria, South Africa.
ZMHB Museum Naturkunde der Humboldt-Universität, Berlin, Germany

Elenco dei dati

BENIN

Augyles nadae Skalický, 2004

Ndali, 3 km W of Sontou, 4/5-VII-2001, A. Kudrna jr.!, 1 es. (Holotypus ♂) in CSU.

Heterocerus elongatus Grouvelle, 1896

Ndali, 3 km W of Sontou, 4/5-VII-2001, A. Kudrna jr.!, 5 es. in CSU. – Benin village Akongbere near Save, 8/26-IV-2000, A. Kudrna jr.!, 1 es. in CSU. – 50 km SW of Parakou, 5 km SW of Woubero, 1/2-VIII-2001, A. Kudrna jr.!, 1 es. in CSU. – S Benin, 1 km E of Challa – Ogoyi, 20 km E of Ouesse, 20/21-VI-2001, A. Kudrna jr.!, 2 es. in CSU. – NW Benin, 30 km SE Natitingou, 5 km E of Sina Issire, 30-VI/1-VII-2001, A. Kudrna jr.!, 1 es. in CSU. – NW Benin, N of Natitingou, 5 km NE of Kouarfa, 26/27-VI-2001, A. Kudrna jr.!, 1 es. in CSU. – NW Benin, 15 km N of Kouarfa Bouyagnindi village, 27/28-VI-2001, A. Kudrna jr.!, 1 es. in CSU.

Heterocerus mus Charpentier, 1965

Ndali, 3 km W of Sontou, 4/5-VII-2001, A. Kudrna jr.!, 2 es. in CSU.

Heterocerus thebaicus thebaicus Grouvelle, 1896

S Benin village Akongbere near Save, 16/20-VI-2001, A. Kudrna jr.!, 1 es. in CSU.

BOTSWANA

Augyles namibiensis Skalický, 1999

SE Botswana, Tuli Blok, 25 km NE of Sherwood, near the Limpopo river banks, at light, 20/21-IV-2003, A. Sforzi & L. Bartolozzi!, 1 es. in coll. MZUF, 1 es. in CMS.

Nota: prima segnalazione della specie per il Botswana.

Heterocerus elongatus Grouvelle, 1896

SE Botswana, Tuli Blok, Tuli Safari Area nr Pont Drift, Limpopo river banks, at light, 22/23-IV-2003, A. Sforzi & L. Bartolozzi!, 1 es. in CMS.

Heterocerus thebaicus australis Charpentier, 1965

Chizwina, Francistown-Mosetse, 20°41' S / 26°45,6' E, black light, 5-V-1995, J. Harrison!, 2 es. in coll. TMSA ; SE Botswana, Tuli Blok, 25 km NE of Sherwood, near the Limpopo river banks, at light, 20/21-IV-2003, A. Sforzi & L. Bartolozzi!, 4 es. in coll. MZUF, 1 es. in CMS; SE Botswana, Tuli Blok, Tuli Safari Area nr Pont Drift, Limpopo river banks, at light, 22/23-IV-2003, A. Sforzi & L. Bartolozzi!, 5 es. in coll. MZUF, 2 es. in CMS, 1 es. in CMF.

BURKINA FASO

Augyles parvus (Grouvelle, 1909)

Compienga, m 161, 11°05'05" N / 0°42'4" E, at light, 21-VIII-2005, Moretto!, 1 es. in CMS.

Nota: prima segnalazione della specie per il Burkina Faso.

Heterocerus elongatus Grouvelle, 1896

Compienga, m 161, 11°05'05" N / 0°42'42" E, at light, 21-VIII-2005, Moretto!, 3 es. in coll. MZUF, 2 es. in CMS.

Nota: prima segnalazione della specie per il Burkina Faso.

Heterocerus nodieri Grouvelle, 1919

Compienga, m 161, 11°05'05" N / 0°42'42" E, at light, 21-VIII-2005, Moretto!, 4 es. in coll. MZUF, 2 es. in CMS, 1 es. in CMF.

Nota: prima segnalazione della specie per il Burkina Faso.

Fino ad ora nessuna specie di Heteroceridae era nota del Burkina Faso.

GHANA

Augyles niloticus (Grouvelle, 1896)

Ashanti Reg., Kumasi, Nhasu, 6°43' N / 1°36' W, at light, 9-X-1967, Endrödy-Younga!, 1 es. in coll. TMSA, 1 es. in CMF, 27-X-1967, Endrödy-Younga!, 7 es. in coll. TMSA, 1 es. in CMS.

Heterocerus elongatus Grouvelle, 1896

Northern Reg., Ashanti, Kumasi, Nhasu, 6°43' N / 1°36' W, light trap, 9-X-1967, Endrödy-Younga!, 1 es. in coll. TMSA, 18-X-1967, Endrödy-Younga!, 4 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Northern Reg., Damongo Game Res., 9°04' N / 1°48' W, at light, 12-VIII-1971, Endrödy-Younga!, 2 es. in coll. TMSA.

Heterocerus nodieri Grouvelle, 1919

Northern Reg., Damongo Game Res., 9°04' N / 1°48' W, at light, 12-VIII-1971, Endrödy-Younga!, 44 es. in coll. TMSA, 2 es. in CMS, 2 es. in CMF; Northern Reg., Tamale, 9°25' N / 0°51' W, at light, 28-VI-1971, Endrödy-Younga!, 1 es. in coll. TMSA.

MADAGASCAR

Heterocerus montanus Grouvelle, 1906

Antananarivo, 18°53' S / 47°33' E, at light, 4-XI-1998, R. Müller!, 1 es. in coll. TMSA; Eastern Andasibe (Périnet), 18°56' S / 48°25' E, light trap, 5/8-XI-1998, R. Müller!, 6 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF.

MOZAMBICO

Augyles pallens (Charpentier, 1965)

Manica Pr., 60 km W Chitobe m 302, 20°48' S / 32°57' E, at light, 15-XII-2005, Gussmann & Müller!, 23 es. in coll. TMSA, 2 es. in CMS, 2 es. in CMF.

Nota: prima segnalazione della specie per il Mozambico.

Heterocerus atroincertus Charpentier, 1965

Manica Pr., 60 km W Chitobe m 302, 20°48' S / 32°57' E, at light, 15-XII-2005, Gussmann & Müller!, 3 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF.

Nota: prima segnalazione della specie per il Mozambico.

Heterocerus elongatus Grouvelle, 1896

Manica Pr., 60 km W Chitobe m 302, 20°48' S / 32°57' E, at light, 15/21-XII-2005, Gussmann & Müller!, 18 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Sofala Pr, Gorongosa N. P., m 24, 18°58' S / 34°21' E, day collecting & at light, 19-XII-2005, Gussmann & Müller!, 2 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF.

Nota: prima segnalazione della specie per il Mozambico.

Heterocerus ornatus Grouvelle, 1906

Manica Pr., 60 km W Chitobe m 302, 20°48' S / 32°57' E, at light, 15-XII-2005, Gussmann & Müller!, 5 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Sofala Pr, Gorongosa N. P., m 24, 18°58' S / 34°21' E, day collecting & at light, 19-XII-2005, Gussmann & Müller!, 1 es. in coll. TMSA.

Nota: prima segnalazione della specie per il Mozambico.

Heterocerus thebaicus australis Charpentier, 1965

Manica Pr., 60 km W Chitobe m 302, 20°48' S / 32°57' E, at light, 15-XII-2005, Gussmann & Müller!, 6 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Sofala Pr, Gorongosa N. P., m 24, 18°58' S / 34°21' E, day collecting & at light, 19-XII-2005, Gussmann & Müller!, 1 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF.

Nota: prima segnalazione della specie per il Mozambico.

Fino ad ora nessuna specie di Heteroceridae era nota del Mozambico.

NAMIBIA

Augyles namibiensis Skalický, 1999

NW Namibia, 50 km NW Opuwo, m 1300, 13-IV-2005, W. Schawaller!, 8 es. in coll. SMNS, 2 es. in CMS (MASCAGNI, 2007).

Heterocerus elongatus Grouvelle, 1896

Rundu Distr., 120 km E Rundu m 1062, 18°02' S / 20°51' E, light trap, 16-III-2006, R. Müller!, 1 es. in coll. TMSA; N Namibia, Waterberg Park, m 1400, 21/23-IV-2005, W. Schawaller!, 5 es. in coll. SMNS, 1 es. in CMS (MASCAGNI, 2007); Okavango Dist., Mutompo, 60 km S Rundu, m 1180 NN, 18°18'38,7" S / 19°15'29,4" E, hand light trap, 13-III-2003, J. Frisch & K. Vohland!, 2 es. in coll. ZMHB.

Heterocerus ornatus Grouvelle, 1906

Okavango Dist., Mutompo, 60 km S Rundu, m 1180 NN, 18°18'38,7" S / 19°15'29,4" E, hand light trap, 11-III-2003, J. Frisch & K. Vohland!, 1 es. in coll. ZMHB; Rundu Distr., 17 km E Rundu m 1059, 17°51' S / 19°54' E, light trap, 14-III-2006, R. Müller!, 14 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Rundu Distr., 120 km E Rundu m 1062, 18°02' S / 20°51' E, light trap, 16-III-2006, R. Müller!, 5 es. in coll. TMSA; NE Namibia, 20 km E Rundu, m 1100, 13/14-III-2006, W. Schawaller!, 8 es. in coll. SMNS, 2 es. in CMS (MASCAGNI, 2007); NW Namibia, 5 km SW Opuwo, m 900, 10-IV-2005, W. Schawaller!, 1 es. in coll. SMNS (MASCAGNI, 2007).

Heterocerus schawallensis Mascagni, 2007

Grootfontein Di, m 1200, 50 km NE Grootfontein, 19°13' S / 18°29' E, at light, 8/9-III-2006, W. Schawaller!, 2 es. (Holotypus ♂ e Allotypus ♀) in coll. SMNS (MASCAGNI, 2007); Grootfontein Di, m 1212, 50 km NE Grootfontein, 19°13' S / 18°29' E, at light, 8-III-2006, R. Müller!, 1 es. ♂ in coll. TMSA.

Heterocerus thebaicus australis Charpentier, 1965

Otjiwarongo Di, 45 km SE Okakarara, 20°56' S / 17°42' E, light trap, 5-III-2006, R. Müller!, 10 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; N Namibia, 50 km S Okakarara, m 1400, 4/5-III-2006, W. Schawaller!, 4 es. in coll. SMNS, 1 es. in CMS (MASCAGNI, 2007); N Namibia, 45 km SE Okakarara, m 1300, 24/25-IV-2005, W. Schawaller!, 7 es. in coll. SMNS (MASCAGNI, 2007); NE Namibia, 50 km NE Grootfontein, m 1200, 8/9-III-2006, W. Schawaller!, 1 es. in coll. SMNS, 1 es. in CMS (MASCAGNI, 2007); NE Namibia, 20 km SE Divundu, m 1000, 17-III-2006, W. Schawaller!, 1 es. in coll. SMNS, 1 es. in CMS (MASCAGNI, 2007); NW Namibia, Ongongo Falls, m 700, 17/18-IV-2005, W. Schawaller!, 9 es. in coll. SMNS, 1 es. in CMS (MASCAGNI, 2007), 17-IV-2005, R. Müller!, 2 es. in coll. TMSA; NW Namibia, Purros, m 300 (Hoaruszib Valley), 18°44' S / 12°56' E, 15/16-IV-2005, W. Schawaller!, 1 es. in coll. SMNS (MASCAGNI, 2007), at light, 15-IV-2005, R. Müller!, 1 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Otjozondjupa Dist., Otjiamongombe West 44, m 1498 NN, 21°35'44,7" S / 16°56'17,4" E, hand light trap, 26/28-II-2003, J. Frisch & K. Vohland!, 84 es. in coll. ZMHB, 3 es. in CMS, 3 es. in CMF, 1-III-2003, J. Frisch & K. Vohland!, 1 es. in coll. ZMHB; Otjozondjupa Dist., Toggekry 250 (Omatako), m 1100 NN, 21°30'42,9" S / 16°43'56,6" E, hand light trap, 5/8-III-2003, J. Frisch & K. Vohland!, 4 es in coll. ZMHB, 1 es. in CMS; Keetmanshoop Dist., Gellap Agr. Exp. Stat, m 1080 NN, 26°24'42,2" S / 18°00'45,0" E, at light, 15/19-V-2002, A. Hoffmann!, 6 es. in coll. ZMHB, 1 es. in CMS, 1 es. in CMF; Keetmanshoop Dist., Gellap Agr. Exp. Stat, m 1120 NN, 26°24'35,8" S / 18°00'44,7" E, automatic light trap, 4/6-III-

2003, P. Schönefeld!, 7 es. in coll. ZMHB, 1 es. in CMS, 1 es. in CMF; Keetmanshoop Dist., Gellap Agr. Exp. Stat, m 1120 NN, 26°24'36.1" S / 18°00'28.8" E, automatic light trap, 5/6-III-2003, P. Schönefeld!, 6 es. in coll. ZMHB; Keetmanshoop Dist., Gellap Agr. Exp. Stat, m 1120 NN, 26°24'42.2" S / 18°00'45.0" E, hand light trap, 6-III-2003, P. Schönefeld!, 1 es. in coll. ZMHB, 1 es. in CMS, 1 es. in CMF; Keetmanshoop Dist., Gellap Ost 3, 23 km NW Keetmanshoop, 26°24'06,1" S / 18°00'26,4" E, 14/15-X-2001, A Hoffmann!, 1 es. in coll. ZMHB.

SOUTH AFRICA

Augyles pallens (Charpentier, 1965)

Northern Prov., Messina Nat. Res., 22°21' S / 30°03' E, light trap, 12/14-XII-2000, Müller & Burger!, 36 es. in coll. TMSA, 2 es. in CMS, 2 es. in CMF; Northern Cape Prov., Richtersveld N. P., Richterberg Camp, 28°15'02" S / 17°12'48" E, 9-IX-2004, M. & B. Uhlig!, 3 es. in coll. ZMHB, 1 es. in CMS, 1 es. in CMF; Northern Cape Prov., Richtersveld N. P., De Hoop, Oranje river bank, washing, 28°11'00,0" S / 17°10'42,9" E, 22-IX-2003, Willers!, 2 es. in coll. ZMHB; N-Transvaal, Louis Trich.-Vivo, 32°01' S / 29°42' E, airplankton, 22-IV-1976, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza Res. Camp., 24°59' S / 31°36' E, UV light & trap, 28/29-I-1994, Endrödy-Younga!, 16 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; 25-II-1995, Endrödy-Younga!, 2 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF, 1-III-1995, Endrödy-Younga!, 1 es. in coll. TMSA, 13-I-1996, Endrödy-Younga!, 1 es. in coll. TMSA, 5-III-1996, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza Res. Camp, 4 km NE, 24°59' S / 31°38' E, UV light collection, 23-I-1995, Cl. Bellamy!, 2 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Letaba Riv. bel dam, 23°46' S / 31°30' E, shorewashing, 1-III-1995, Endrödy-Younga!, 12 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Transvaal, Kruger Nat. Park, Mathlaksapan, 22°37' S / 31°22' E, shorewashing, 9-II-1994, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Levuvu River, 22°27' S / 31°10' E, shorewashing, 12-II-1994, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Pafuri reseach camp, 22°25' S / 31°12' E, UV light, 30-I-1994, Endrödy-Younga!, 2 es. in coll. TMSA, UV lighth & trap, 14-II-1994, Endrödy-Younga!, 3 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF, kerosene light, 18-XI-1994, Endrödy & Bellamy!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Limpopo River, Pafuri N, 21°22' S / 30°13' E, shorewashing, 4-II-1994, Endrödy-Younga!, 6 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Transvaal, Kruger Nat. Park, Punda Maria Ngotsodam, 21°26' S / 31°14' E, shorewashing, 7-II-1994, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Letsitele, 4/15-III-1974, R. Parrot leg., 1 es. in coll. TMSA; Transvaal, Naboomsp. Torino Ranche, 24°37' S / 28°38' E, UV light, 14-I-1990, Endrödy-Younga!, 1 es. in coll. TMSA; Limpopo Prov., Der Brochen, 25°04' S / 30°07' E, light trap, 15-III-1976, TMSA staff!, 1 es. in coll. TMSA; Waterberg, Geelhoutbush farm, 24°22' S / 27°33' E, UV light, 2/3-X-1995, Endrödy & Bellamy!, 3 es. in coll. TMSA; KwaZulu-Natal, Ndumu Store, 26°55' S / 32°18' E, at flood light, 1-XII-1992, Endrödy-Younga!, 1 es. in coll. TMSA; KwaZulu-Natal, Ndumu Nature Res., 26°53' S / 32°16' E, 12-VI-1989, shorewash fresh wat., Endrödy & Klimaszew!, 2 es. in coll. TMSA; KwaZulu-Natal, Hluhluwe Game Res., 28°05' S / 32°04' E, 17/27-XI-1992, shorewash slowwat, Endrödy-Younga!, 12 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Cape Amatole, Isidenge For. St. A1, 32°41' S / 27°16' E, UV light, 22-XI-1987, Endrödy-Younga!, 1 es. in coll. TMSA; Mpumalanga, Der Brochen Farm, 25°04' S / 30°07' E, light trap, 11-II-2002, TMSA staff!, 1 es. in coll. TMSA; Mpumalanga, Steelpoort, Didingwe lodg, 25°00' S / 30°07' E, light trap, TMSA staff!, 2 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF.

Heterocerus atroincertus Charpentier, 1965

Northern Prov., Messina Nat. Res., 22°21' S / 30°03' E, light trap, 11/13-XII-2000, E - Y: 3397, Müller & Burger!, 4 es. in coll. TMSA, 1 es. in CMS; Transvaal, Kruger Nat. Park, Skukuza sabie riv., 24°57' S / 30°42' E, shorewashing, 22-II-1995, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza Res. Camp., 24°59' S / 31°36' E, UV light & trap, 28-I-1994, Endrödy-Younga!, 5 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; KwaZulu-Natal, Tembe, Masizwana for., 27°01' S / 32°29' E, light trap, 18-XI-2002, J. Harrison & R. Müller!, 1 es. in coll. TMSA; KwaZulu-Natal, Tembe Elephant Park, 27°03'

S / 32°25' E, light trap at camp, 17-XI-2002, J. Harrison & R. Müller!, 1 es. in coll. TMSA; Zululand, Hluhluwe Game Res., 28°05' S / 32°04' E, 27-XI-1992, shorewash slowwat, Endrödy-Younga!, 24 es. in coll. TMSA, 3 es. in CMS, 3 es. in CMF; W Province, Soutpans, Tswaing, 25°24' S / 27°33' E, on black light, 4-XII-1996, R. Müller!, 2 es. in coll. TMSA, 1 es. in CMF; Gauteng Prov., Cullinan, Premier Mine Reserve, 25°40' S / 28°29' E, light trap, 11-XII-2001, TMSA staff!, 1 es. in coll. TMSA; Mpumalanga Helena Farm, m 1091, 25°02' S / 30°07' E, shorewashing, 22-X-2001, TMSA staff!, 3 es. in coll. TMSA.

Heterocerus elongatus Grouvelle, 1896

Northern Prov., Messina Nat. Res., 22°21' S / 30°03' E, light trap, 11/13-XII-2000, E - Y: 3397, Müller & Burger!, 4 es. in coll. SANC, 25 es. in coll. TMSA, 1 es. CMS, 1 es. CMF; Northern Prov., Arbor farm Levubu, 23°05' S / 30°17' E, at light, 28-I-1998, R. Müller!, 3 es. in coll. TMSA; Northern Prov., Limpopo, Ben Lavin Nat. Reserve, at light, 8/14-XII-2000, M. Krüger!, 2 es. in coll. TMSA; Gauteng, Tswaing, 25°24' S / 28°06' E, light trap, 16-II-2003, TMSA staff!, 6 es. in coll. TMSA, 1 es. in CMS, 1 es. in coll. CMF; Gauteng, Cullinan, Premier Mine Reserve, 25°40' S / 28°29' E, light trap, 22-XI-2001, TMSA staff!, 1 es. in coll. TMSA; Gauteng, Cullinan, Windybrow, 25°41' S / 28°30' E, light trap, 23-I-2002, TMSA staff!, 1 es. in coll. TMSA; Northwest Prov., Soutpans, Tswaing, 25°24' S / 28°06' E, at light, 4-XII-1996, R. Müller!, 2 es. in coll. TMSA; Transvaal, Letsitele, 4/15-III-1974, R. Parrot!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza, 25°00' S / 31°35' E, 26-XI/5-XII-1993, Krüger & Dunning!, 4 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza Res. Camp., 24°59' S / 31°35' E, UV light, 28-I-1994, Endrödy-Younga!, 2 es. in coll. TMSA, 25-II-1995, Endrödy-Younga!, 1 es. in coll. TMSA, 1-III-1995, Endrödy-Younga!, 2 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza 12 km S, 25°04' S / 31°37' E, UV light, 6-III-1996, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Olifants camp, 23°58' S / 31°58' E, 8-XII-1988, light collecting, T. van Viegen!, 8 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Pafuri res. camp, 22°25' S / 31°12' E, UV light & trap, 31-I-1994, Endrödy-Younga!, 4 es. in coll. TMSA, 1 es. in CMF, 1 es. in CMF; Transvaal, Naboomsp. Torino Ranche, 24°37' S / 28°38' E, 15-I-1990, UV light, Endrödy-Younga!, 2 es. in coll. TMSA; Transvaal, NelsHoogte Galery Forest below Station, 25°51' S / 30°53' E, UV light, 4-XII-1987, Endrödy-Younga!, 1 es. in coll. TMSA; KwaZulu-Natal, Ndumu, 26°55' S / 32°18' E, 20/21-XI-2002, light trap, J. Harrison & R. Müller!, 3 es. in coll. TMSA; KwaZulu-Natal, Ndumu Banzi, fresh wat. pan, 26°53' S / 32°16' E, 16-II-1989, shorewashing, Endrödy & Klimaszew!, 22 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; KwaZulu-Natal, Ndumu Game Res., 26°54' S / 32°17' E, 2-XII-1992, UV light, Endrödy-Younga!, 3 es. in coll. TMSA; KwaZulu-Natal, Ndumu Nature Res., 26°53' S / 32°16' E, 12-VI-1986, shorewash. fresh wat., Endrödy & Klimaszew!, 19 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; KwaZulu-Natal, Tembe Elephant Park, 27°03' S / 32°25' E, light trap at camp, 17/19-XI-2002, J. Harrison & R. Müller!, 14 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Swaziland, Caprivi Bagani, 20-III-1983, Croon!, 1 es. in coll. TMSA; Noord-Wes, surr. of Swarttruggens, 18-IV-2003, A. Sforzi & L. Bartolozzi!, 1 es. in coll. MZUF, 1 es. in CMS.

Heterocerus incertus Grouvelle, 1896

Transvaal, Kruger Nat. Park, Skukuza Res. Camp., 24°59' S / 31°36' E, UV light & trap, 29-I-1994, Endrödy-Younga!, 1 es. in coll. TMSA, 1 es. in CMS; Transvaal, Kruger Nat. Park, Skukuza sabie riv., 24°57' S / 30°42' E, shorewashing, 22-II-1995, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza, 24°59' S / 31°35' E, UV light, 17-I-1996, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Mathlakušapan, 22°37' S / 31°22' E, shorewashing, 9-II-1994, Endrödy-Younga!, 4 es. in coll. TMSA, 1 es. in CMF; Transvaal, Kruger Nat. Park, Malonga sands, 22°38' S / 31°17' E, UV light, 9-II-1994, Endrödy-Younga!, 1 es. in coll. TMSA.

Heterocerus nodieri Grouvelle, 1919

Transvaal, NelsHoogte galery for. below St., 25°51' S / 30°53' E, UV light collection, 4-XII-1986, Endrödy-Younga!, 1 es. in coll. TMSA.

Nota: prima segnalazione della specie per il South Africa.

Heterocerus ornatus Grouvelle, 1906

Northern Prov., Messina Nat. Res., 22°21' S / 30°03' E, light trap, 11-XII-2000, E - Y: 3397, Müller & Burger!, 31 es. in coll. SANC, Messina, Nat. Res., 22°21' S / 30°03' E, light trap, 12/13-XII-2000, Müller & Burger!, 247 es. in coll. TMSA, 4 es. in CMS, 4 es. in CMF; Ben Lavin Nat. Res., at light, 8/14-XII-2000, M. Krüger!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza, 24°59' S / 31°35' E, UV light, 17-I-1996, Endrödy-Younga!, 4 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza Res. Camp., 24°59' S / 31°35' E, UV light, 28/29-I-1994, Endrödy-Younga!, 8 es. in coll. TMSA, 1 es. in CMF, 13-I-1996, Endrödy-Younga!, 5 es. in coll. TMSA, 1 es. in CMS, 3-III-1996, Endrödy-Younga!, 46 es. in coll. TMSA, 2 es. in CMS, 2 es. in CMF; Transvaal, Kruger Nat. Park, Skukuza reseach, ca 25°00' S / 31°35' E, UV light, 19-II-1995, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza, fish. trail, 24°59' S / 31°38' E, UV light, 8-III-1996, Endrödy-Younga!, 7 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza 3 km S, 24°58' S / 31°34' E, pyrethrum fogging, 6-III-1996, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza 12 km S, 25°04' S / 31°37' E, UV light, 6-III-1996, Endrödy-Younga!, 56 es. in coll. TMSA, 2 es. in CMS, 2 es. in CMF; Transvaal, Kruger Nat. Park, Skukuza 13 km SSE, 25°04' S / 31°37' E, pyrethrum fogging, 7-III-1996, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Letaba River bel. dam, 23°46' S / 31°30' E, shorewashing, 1-III-1995, Endrödy-Younga!, 2 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Transvaal, Kruger Nat. Park, Levuvu River, 22°27' S / 31°10' E, shorewashing, Endrödy-Younga!, 2 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Malonga sands, 22°38' S / 31°17' E, UV light, 9-II-1994, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Mathlakusapan, 22°37' S / 31°22' E, shorewashing, 9-II-1994, Endrödy-Younga!, 11 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Transvaal, Kruger Nat. Park, Kruger Gate-Skukuza, ca 24°59' S / 31°32' E, air plancton, 20-II-1995, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Pafuri Res. Camp., 22°25' S / 31°12' E, UV light, 30-I-1994, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Punda Maria Ngotsodam, 21°26' S / 31°14' E, shorewashing, 7-II-1994, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Letsitele, 4/15-III-1974, R. Parrot!, 4 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; KwaZulu-Natal, Ndumu Banzi, fresh wat. pan, 26°53' S / 32°16' E, 16-II-1989, shorewashing, Endrödy & Klimaszew!, 1 es. in coll. TMSA; Mpumalanga Steelpoort District, site 10 Der Brochen Shore, m 1131, 25°04' S / 30°07' E, 21/26-X-2001, SRK Consulting Animal Life Study, TMSA staff!, 1 es. in coll. TMSA; Gauteng Cullinan Premier Mine Reserve, 25°40' S / 28°29' E, light trap, 22-XI-2001, TMSA staff!, 1 es. in coll. TMSA, 17-I-2002, TMSA staff!, 1 es. in coll. TMSA.

Heterocerus thebaicus australis Charpentier, 1965

Northern Prov., Messina Nat. Res., 22°21' S / 30°03' E, light trap, 11/14-XII-2000, E - Y: 3397, R. Müller & M. Burger!, 33 es. in coll. SANC, 149 es. in coll. TMSA, 4 es. CMS, 4 es. CMF; Northern Prov., Amatola, Scott farm, 22°56' S / 29°23' E, at light, 26-I-1998, R. Müller!, 4 es. in coll. TMSA, 1 es. CMS; Northern Prov., Soutpansbg Amatola fm, 22°56' S / 29°23' E, light trap, 16-XII-2003, R. Müller!, 25 es. in coll. TMSA, 2 es. in CMS, 2 es. in CMF; Northern Prov., Blouberg, 23°03' S / 29°04' E, at light, 25-XI-1996, Krüger & Dombrowsky!, 1 es. in coll. TMSA; Northern Prov., Limpopo, Mussina m 568, 22°19' S / 30°00' E, at light, 10-XII-2005, Gussmann & Müller!, 19 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Northern Prov., Limpopo, 20 km E Vivo, 22°57' S / 29°23' E, light trap, 25-III-2006, R. Müller!, 2 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Northern Prov., Limpopo, Tshipisie m 517, 22°36' S / 30°10' E, light trap, 11-XII-2005, Gussmann & Müller!, 38 es. in coll. TMSA, 3 es. in CMS, 3 es. in CMF; Northwest Prov., Soutpans, Tswaing, 25°24' S / 28°06' E, at light, 4-XII-1996, R. Müller!, 11 es. in coll. TMSA, 1 es. CMS, 1 es. CMF; Transvaal, Kruger Nat. Park, Skukuza Res. Camp., 24°59' S / 31°35' E, UV light & trap, 28/29-I-1994, Endrödy-Younga!, 29 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF, 25-II-1995, Endrödy-Younga!, 4 es. in coll. TMSA, 1 es. CMS, 1-III-1995, Endrödy-Younga!, 16 es. in coll. TMSA, 1 es. CMF, 13/18-I-1996, Endrödy-Younga!, 9 es. in coll. TMSA, 5-III-1996, Endrödy-Younga!, 2 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza Res. Camp., 24°59' S / 31°38' E, UV light, 23-I-1995, C.L. Bellamy!, 8 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza Reseach Camp, 25°00' S / 31°35' E, UV light & trap,

22-I-1995, C.L. Bellamy!, 2 es. in coll. TMSA, 19-II-1995, Endrödy-Younga!, 10 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza 12 km S, 25°04' S / 31°37' E, UV light, 6-III-1996, Endrödy-Younga!, 3 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza, sabie riv., 24°59' S / 31°38' E, UV light, 14-I-1996, Endrödy-Younga!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Skukuza, 24°59' S / 31°35' E, UV light, 17-I-1996, Endrödy-Younga!, 2 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Pafuri Res. Camp., 22°25' S / 31°12' E, UV light, 30/31-I-1994, Endrödy-Younga!, 12 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Transvaal, Kruger Nat. Park, Pafuri Res. Camp., 22°25' S / 31°12' E, UV light, 3/5-II-1994, Endrödy-Younga!, 5 es. in coll. TMSA, 1 es. CMS, 1 es. CMF, 26-I-1995, C.L. Bellamy!, 1 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Pafuri Res. Camp., 22°25' S / 31°12' E, UV light & trap, 14-II-1994, Endrödy-Younga!, 21 es. in coll. TMSA, 1 es. in CMS, 2 es. in CMF; Transvaal, Kruger Nat. Park, Pafuri Res. Camp. 3 km W, 22°25' S / 31°10' E, UV light, 2-II-1994, Endrödy-Younga!, 3 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Pafuri Res. Camp. 4 km W, 22°25' S / 31°09' E, UV light & trap, 1-II-1994, Endrödy-Younga!, 7 es. in coll. TMSA, 1 es. in CMS; Transvaal, Kruger Nat. Park, Levuvu River, 22°27' S / 31°10' E, shorewashing, 12-II-1994, Endrödy-Younga!, 16 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Transvaal, Kruger Nat. Park, Letaba River bel dam, 23°46' S / 31°30' E, shorewashing, 1-III-1995, Endrödy-Younga!, 4 es. in coll. TMSA; Transvaal, Kruger Nat. Park, Olifants camp, 23°58' S / 31°58' E, 8-XII-1988, light collecting, T. van Viegen!, 8 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Transvaal, Letsitele, 4/15-III-1974, R. Parrot!, 2 es. in coll. TMSA; Transvaal, Manyeleti, Game Res., 24°38' S / 31°28' E, light collecting, 8-XII-1986, G. Haagner!, 2 es. in coll. TMSA; Transvaal, Naboomsp. Torino Ranche, 24°37' S / 28°38' E, UV light, 14/15-I-1990, Endrödy-Younga!, 10 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Transvaal, Nelshoogte Galery Forest Station, 25°50' S / 30°50' E, UV light, 30-XI-1986, Endrödy-Younga!, 10 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Transvaal, Nelshoogte Galery Forest below Station, 25°51' S / 30°53' E, UV light, 4-XII-1987, Endrödy-Younga!, 20 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; N Transvaal, Louis Trich.-Vivo, 32°01' S / 29°42' E, 22-IV-1976, airplankton, Endrödy-Younga!, 2 es. in coll. TMSA; Gauteng Prov., Cullinan, Premier Mine Res., 25°40' S / 28°29' E, light trap, 21/22-XI-2001, TMSA staff!, 3 es. in coll. TMSA, 1 es. CMS, 1 es. CMF, 11-XII-2001, TMSA staff!, 1 es. in coll. TMSA, 17-I-2002, TMSA staff!, 1 es. in coll. TMSA; Gauteng Prov., Tswaing, 25°24' S / 28°06' E, lighth trap, 16-II-2003, TMSA staff!, 4 es. in coll. TMSA, 24-XI-2003, TMSA staff!, 43 es. in TMSA, 4 es. in CMS, 4 es. in CMF; Mpumalanga Kopees Kraal, Lydenbg, 25°07' S / 30°12' E, shorewashing, 5/6-XII-1996, Endrödy-Younga!, 12 es. in coll. TMSA, 1 es. CMS, 1 es. CMF; Mpumalanga Steelpoort, Didingwe lodg, 25°00' S / 30°07' E, light trap, 16-I-2003, TMSA staff!, 1 es. in coll. TMSA; Mpumalanga Ezemvelo Nat. R., m 1374, 25°42' S / 29°01' E, light trap, 26/27-I-2004, TMSA staff!, 5 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Natal, Karkloof for. m 1300, 29°18' S / 30°13' E, UV light in forest, Endrödy-Younga!, 1 es. in coll. TMSA; Natal, Drakensberg, Mike's Pass house, 28°56' S / 29°15' E, UV light, 23-I-1997, Endrödy-Younga!, 7 es. in coll. TMSA, 1 es. CMS, 1 es. CMF; Natal, Drakensberg, Cathedral Peak St., 28°56' S / 29°14' E, UV light, 18-I-1997, Endrödy-Younga!, 9 es. in coll. TMSA, 1 es. CMF; Natal, Drakensberg, Cathedral Peak, 28°57' S / 29°12' E, 15-III-1976, at light, Endrödy-Younga!, 7 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; Natal, Drakensberg, Cathedral Peak, 28°57' S / 29°12' E, 18-III-1976, airplankton forest, Endrödy-Younga!, 1 es. in coll. TMSA; Natal Middld., Karkloof Forest, m 1300, 29°18' S / 30°13' E, UV light in forest, 11-XII-1989, Endrödy & Klimaszew!, 1 es. in coll. TMSA; KwaZulu-Natal, Tembe Elephant Park, 27°03' S / 32°25' E, light trap at camp, 17-XI-2002, J. Harrison & R. Müller!, 2 es. in coll. TMSA; KwaZulu-Natal, Ndumu, 26°55' S / 32°18' E, light trap, 21-XI-2002, J. Harrison & R. Müller!, 16 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; KwaZulu-Natal, Ndumu Banzi, fresh wat. pan, 26°53' S / 32°16' E, 16-II-1989, shorewashing, Endrödy & Klimaszew!, 25 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; KwaZulu-Natal, Ndumu Nature Res., 26°53' S / 32°16' E, 12-VI-1986, shorewash fresh wat., Endrödy & Klimaszew!, 17 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF, 26°54' S / 32°17' E, light trap, 16/21-XI-2002, J. Harrison & R. Müller!, 4 es. in coll. TMSA; KwaZulu-Natal, Ndumu camp, 26°55' S / 32°18' E, light trap, 22-XI-2002, J. Harrison & R. Müller!, 1 es. in coll. TMSA; KwaZulu-Natal, Kosi Bay, 26°58' S / 32°50' E, light trap, 14-XI-2002, Burger, Harrison, Müller!, 1 es. in coll. TMSA; KwaZulu-Natal, Hluhluwe Game

Res., 28°05' S / 32°04' E, 17/27-XI-1992, shorewash slowwat, Endrödy-Younga!, 4 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; KwaZulu-Natal, Ngome State Forest, 27°48' S / 31°25' E, m 1150, UV light, 12/17-XI-1995, Krüger & Dombrowsky!, 1 es. in coll. TMSA; Waterberg, Geelhoutbush farm, 24°22' S / 27°33' E, UV light, 2/3-X-1995, Endrödy & Bellamy!, 3 es. in coll. TMSA; Littlekarroo, Bavianskloof, 33°38' S / 24°15' E, UV light, 27-X-1993, Endrödy-Younga!, 1 es. in coll. TMSA; W Cape, Gamkaberg Nat. Res., 33°41' S / 21°54' E, UV light, 8-XII-1995, C.L. Bellamy!, 3 es. in coll. TMSA; Cape Amatole, Isidenge For. St. A1, 32°41' S / 27°16' E, UV light, 22-XI-1987, Endrödy-Younga!, 8 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; E Cape, Doornkraal, 33°39' S / 24°22' E, UV light, 4-XII-1995, C.L. Bellamy!, 2 es. in coll. TMSA; Transkei Magwa Tee Estate, 31°23' S / 29°41' E, UV light collection, 27-XI-1988, Endrödy-Younga!, 1 es. in coll. TMSA.

Heterocerus uhligi Mascagni & Monte, 2001

Eastern Cape Prov., Addo Elephant N. P., 33°26'38" S / 25°44'52" E, 1/2-XI-2006, M. & B. Uhlig!, 1 es. in coll. ZMHB.

Heterocerus vulpes Grouvelle, 1906

Northern Prov., Messina Nat. Res., 22°21' S / 30°03' E, light trap, 13-XII-2000, R. Müller & M. Burger!, 1 es. in coll. TMSA ; KwaZulu-Natal, Tembe Elephant Park, 27°03' S / 32°25' E, light trap at camp, 17/19-XI-2002, J. Harrison & R. Müller!, 7 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; KwaZulu-Natal, Tembe, Masizwana for., 27°01' S / 32°29' E, light trap, 18-XI-2002, J. Harrison & R. Müller!, 16 es. in coll. TMSA, 1 es. in CMS, 1 es. in CMF; KwaZulu-Natal, Kosi Bay forest, 26°58' S / 32°50' E, light trap, 12-XI-2002, Burger, Harrison & Müller!, 1 es. in coll. TMSA ; KwaZulu-Natal, Hluhluwe Game Res., 28°05' S / 32°04' E, 27-XI-1992, shorewash slowwat, Endrödy-Younga!, 2 es. in coll. TMSA; Swaziland, Caprivi Bagani, 20-III-1983, Croon!, 3 es. in coll. TMSA; Gauteng Prov., Tswaing, 25°24' S / 28°06' E, ligh trap, 24-XI-2003, TMSA staff!, 1 es. in coll. TMSA.

TANZANIA

Heterocerus abyssinicus Mamitza, 1930

Lac Rukwa, 1946, H. & J. Brédo!, 1 es. in coll. ISBN; Tumba, Rukwa, 15-XII-1950, H. & J. Brédo!, 1 es. in coll. ISBN; Ikuu Camp, 24-XII-1950, H. & J. Brédo!, 1 es. in coll. ISBN.

Heterocerus alessandrae Mascagni & Monte, 2000

Arusha Prov., Mto Wa Mbu, m 1170, 26-X-2008, L. Bartolozzi!, 1 es. in coll. MZUF, 1 es. in CMS.

Heterocerus atroincertus Charpentier, 1965

Morogoro Prov., surr. Mang'ula, m 315, 07°50'55" S / 36°53'22" E, at light, 17/18-VII-2004, A. Sforzi & L. Bartolozzi!, 1 es. in CMS.

Heterocerus elongatus Grouvelle, 1896

Morogoro Prov., surr. Mang'ula, m 315, 07°50'55" S / 36°53'22" E, at light, 17/18-VII-2004, A. Sforzi & L. Bartolozzi!, 11 es. in coll. MZUF, 4 es. in CMS, 1 es. in CMF; Morogoro Prov., Ruaha Valley, m 519, 07°31'21" S / 36°35'56" E, at light, 10-VII-2004, A. Sforzi & L. Bartolozzi!, 1 es. in CMS; Morogoro Prov., surr. Doma, m 430, 06°56'35" S / 37°16'05" E, at light, 21-VII-2004, A. Sforzi & L. Bartolozzi!, 2 es. in coll. MZUF, 1 es. in CMS.

ZAIRE

Augyles brevisculus (Charpentier, 1962)

Faradje, Mongapi, 13-IV-1930, A. Collart!, 1 es. in coll. ISBN.

Augyles niloticus (Grouvelle, 1896)

Leopoldville, VI-1927, A. Collart!, 1 es. in coll. ISBN.

Nota: prima segnalazione della specie per lo Zaire.

Augyles parvus (Grouvelle, 1909)

Libenge, Zambì, s. sable rive, 6-I-1948, R. Cremer & M. Neuman!, 91 es. in coll. ISBN, 1 es. in CMS; Libenge, Muwuya, 12-I-1948, R. Cremer & M. Neuman!, 1 es. in coll. ISBN.

Heterocerus abyssinicus Mamitza, 1930

Lac Edouard, Bitshumbi, 15/25-I-1953, Mission K.E.A., J. Verbeke!, 4 es. in coll. ISBN, 1 es. in CMS; Bitshumbi, 0°40'56" S / 29°23'12" E, light trap, 25-III-1953, Mission K.E.A., 17 es. in coll. ISBN, 1 es. in CMS, 1 es. in CMF, 31-III-1953, Mission K.E.A., 78 es. in coll. ISBN, 7 es. in CMS, 23-X-1953, Mission K.E.A., 87 es. in coll. ISBN, 7 es. in CMS.

Nota: prime segnalazioni della specie per lo Zaire.

Heterocerus atroincertus Charpentier, 1965

Bitshumbi, 0°40'56" S / 29°23'12" E, light trap, 25-III-1953, Mission K.E.A., 2 es. in coll. ISBN, 31-III-1953, Mission K.E.A., 3 es. in coll. ISBN, 1 es. in CMS, 23-X-1953, Mission K.E.A., 6 es. in coll. ISBN, 4 es. in CMS.

Heterocerus capensoides Charpentier, 1962

Libenge, 19-I-1948, R. Cremer & M. Neuman!, 1 es. in coll. ISBN; Leopoldville, VI-1927, A. Collart!, 1 es. in coll. ISBN, 1 es. in CMS.

Heterocerus denticulatus Mamitza, 1930

Leopoldville, VI-1927, A. Collart!, 1 es. in coll. ISBN, 1 es. in CMS.

Heterocerus thebaicus evanescens Mamitza, 1930

Libenge, Zambì, s. sable rive, 6-I-1948, R. Cremer & M. Neuman!, 3 es. in coll. ISBN, 1 es. in CMS.

Heterocerus wittei Mamitza, 1939

Bitshumbi, 0°40'56" S / 29°23'12" E, light trap, 25-III-1953, Mission K.E.A., 22 es. in coll. ISBN, 1 es. in CMS, 1 es. in CMF, 31-III-1953, Mission K.E.A., 59 es. in coll. ISBN, 4 es. in CMS, 23-X-1953, Mission K.E.A., 195 es. in coll. ISBN, 15 es. in CMS.

ZAMBIA

Heterocerus abyssinicus Mamitza, 1930

Mweru-Wantipa, I-1945, H. & J. Brédo!, 2 es. in coll. ISBN.

Nota: prima segnalazione della specie per lo Zambia.

ZIMBABWE

Heterocerus thebaicus australis Charpentier, 1965

Strasse zw. Zvishavane und Mbalabala, Bushcamp 60 km WSW Zvishavane, m 1260, 20°28'48.7" S / 29°24'38.7" E, at light, U. Göllner!, 1 es. in coll. ZMHB; Matabeleland, Lake Mutirikwi, Masvingo Kyle N. P., m 1100, 20°13' S / 31°00' E, 1/4-XII-1993, J. Deckert!, 2 es. in coll. ZMHB, 1 es. in CMS.

A conclusione di questo lavoro forniamo, per ogni nazione del continente africano, l'elenco di tutte le specie note:

Africa paleartica:

Algeria: *Augyles flavidus*, *A. gravidus*, *A. maritimus*, *A. marmota*, *A. niloticus*, *A. senescens*, *A. turanicus*, *Heterocerus aragonicus*, *H. dayremi*, *H. fenestratus*, *H. flexuosus*, *H. holosericeus*, *H. humilis*, *H. marginatus*, *H. pallidivestis*, *H. persicus* (MASCAGNI & MONTE, 2008). **Canary Islands:** nessuna specie. **Egypt:** *Augyles niloticus*, *Heterocerus fenestratus*, *H. flexuosus*, *H. medius*, *H. thebaicus* ssp. *thebaicus* (MASCAGNI & MONTE, l.c.). **Libya:** *Augyles flavidus* (MASCAGNI & MONTE, l.c.). **Madera Archipelago:** nessuna specie. **Morocco:** *Augyles flavidus*, *A. gravidus*, *A. maritimus*, *A. niloticus*, *A. senescens*, *Heterocerus aragonicus*, *H. fenestratus*, *H. flexuosus*, *H. holosericeus* (MASCAGNI & MONTE,

l.c.). **Tunisia:** *Augyles flavidus*, *A. gravidus*, *A. maritimus*, *A. marmota*, *Heterocerus aragonicus*, *H. dayremi*, *H. fenestratus*, *H. flexuosus*, *H. holosericeus*, *H. ottomerkli*, *H. persicus*, *H. schatzmayri* (MASCAGNI & MONTE, l.c.).

Regione Afrotropicale:

Angola: *Augyles breviusculus*, *Heterocerus alluaudi*, *H. angolensis*, *H. elongatus*, *H. incertus*, *H. microincertus*, *H. novoincertus*, *H. thebaicus ssp. australis*. **Benin:** *Heterocerus elongatus*. **Botswana:** *Augyles breviusculus*, *Augyles namibiensis*, *Heterocerus atroincertus*, *H. bredoi*, *H. elongatus*, *H. ornatus*, *H. thebaicus ssp. australis*, *H. vulpes*. **Burkina Faso:** *Augyles parvus*, *Heterocerus elongatus*, *H. nodieri*. **Burundi:** nessuna specie. **Camerun:** *Heterocerus elongatus*. **Cape Verde:** *Heterocerus elongatus*, *H. flexuosus*. **Central African Republic:** *Augyles breviusculus*, *A. parvus*, *Heterocerus elongatus*. **Chad:** *Augyles parvus*, *Heterocerus bredoi*, *H. hardei*, *H. medius*, *H. mus*, *H. thebaicus ssp. evanescens*, *H. tibesticola*. **Congo:** *Augyles parvus*, *Heterocerus capensoides*, *H. denticulatus*. **Côte d’Ivoire:** *Augyles breviusculus*, *Heterocerus elongatus*, *H. nodieri*. **Eritrea:** *Augyles cribratellus*, *A. flavidus*, *Heterocerus flexuosus*. **Ethiopia:** *Heterocerus abyssinicus*, *H. elongatus*, *H. hardei*, *H. incertus*, *H. medius*. **Gabon:** nessuna specie. **Gambia:** *Heterocerus elongatus*. **Ghana:** *Augyles niloticus*, *Heterocerus elongatus*, *H. nodieri*. **Gibuti:** nessuna specie. **Guinea:** *Heterocerus capensoides*, *H. ornatus*. **Guinea Bissau:** nessuna specie. **Guinée Equatoriale:** nessuna specie. **Kenya:** *Augyles cribratellus*, *A. niloticus*, *A. pallens*, *Heterocerus abyssinicus*, *H. elongatus*, *H. incertus*, *H. katotuenensis*, *H. nodieri*, *H. ornatus*, *H. snizeki*. **Liberia:** *Heterocerus elongatus*. **Madagascar:** *Heterocerus alluaudi*, *H. dubitabilis*, *H. elongatus*, *H. fairmairei*, *H. incertus*, *H. montanus*, *H. ornatus*, *H. vulpes*. **Malawi:** *Heterocerus atroincertus*, *H. elongatus*, *H. thebaicus ssp. australis*. **Mali:** *Augyles flavidus*, *A. parvus*, *Heterocerus elongatus*, *H. sennarensis*. **Mauritania:** *Augyles flavidus*, *Heterocerus elongatus*, *H. flexuosus*, *H. medius*, *H. thebaicus ssp. evanescens*. **Mozambico:** *Augyles pallens*, *Heterocerus atroincertus*, *H. elongatus*, *H. ornatus*, *H. thebaicus ssp. australis*. **Namibia:** *Augyles breviusculus*, *A. namibiensis*, *A. niloticus*, *Heterocerus alluaudi*, *H. bredoi*, *H. elongatus*, *H. ornatus*, *H. pavlicecki*, *H. thebaicus ssp. australis*, *H. vulpes*. **Niger:** *Heterocerus elongatus*, *H. evanescens*, *H. medius*. **Nigeria:** *Heterocerus denticulatus*, *H. elongatus*, *H. incertus*, *H. medius*, *H. nodieri*, *H. parvus*, *H. planoincertus*, *H. sennarensis*. **Ruanda:** nessuna specie. **Senegal:** *Augyles flavidus*, *A. niloticus*, *A. parvus*, *Heterocerus capensoides*, *H. elongatus*, *H. flexuosus*, *H. incertus*, *H. medius*, *H. nodieri*, *H. thebaicus ssp. evanescens*. **Sierra Leone:** *Heterocerus capensoides*. **Somalia:** *Augyles cribratellus*, *A. flavidus*, *Heterocerus elongatus*, *H. medius*, *H. ornatus*. **South Africa:** *Augyles pallens*, *Heterocerus alluaudi*, *H. atroincertus*, *H. capensis*, *H. elongatus*, *H. incertus*, *H. meridionalis*, *H. nodieri*, *H. ornatus*, *H. peringueyi*, *H. thebaicus ssp. australis*, *H. uhligi*, *H. vulpes*. **Sudan:** *Augyles niloticus*, *A. parvus*, *Heterocerus elongatus*, *H. medius*, *H. sennarensis*, *H. thebaicus ssp. thebaicus*. **Tanzania:** *Augyles cribratellus*, *A. dubitabilis*, *A. parvus*, *Heterocerus abyssinicus*, *H. alessandrae*, *H. atroincertus*, *H. elongatus*, *H. incertus*, *H. medius*, *H. nodieri*, *H. ornatus*, *H. snizeki*. **Togo:** *Heterocerus elongatus*, *H. thebaicus ssp. evanescens*. **Uganda:** *Augyles cribratellus*, *Heterocerus incertus*, *H. medius*. **Zaire:** *Augyles breviusculus*, *A. flavidus*, *A. niloticus*, *A. parvus*, *Heterocerus abyssinicus*, *H. atroincertus*, *H. bredoi*, *H. capensoides*, *H. denticulatus*, *H. elongatus*, *H. incertus*, *H. nodieri*, *H. rufoincertus*, *H. testaceus*, *H. thebaicus ssp. evanescens*, *H. witteli*. **Zambia:** *Augyles niloticus*, *A. pallens*, *Heterocerus abyssinicus*, *H. alluaudi*, *H. atroincertus*, *H. dubitabilis*, *H. elongatus*, *H. incertus*, *H. nodieri*, *H. ornatus*, *H. sennarensis*, *H. thebaicus ssp. australis*. **Zimbabwe:** *Augyles niloticus*, *A. pallens*, *Heterocerus alluaudi*, *H. atroincertus*, *H. elongatus*, *H. incertus*, *H. nodieri*, *H. ornatus*, *H. thebaicus ssp. australis*, *H. vulpes*.

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Bibliografia

- MASCAGNI A., 2007. Terzo contributo alla conoscenza degli Heteroceridae della Namibia con descrizione di *Heterocerus schawallensis* spec. nov. (Coleoptera). *Opuscula zoologica fluminensia*, Flums (SG), 223: 1-4.
- MASCAGNI A. & MONTE C., 2000. Contributo alla conoscenza degli Heteroceridae della Tanzania con descrizione di *Heterocerus alessandrae* spec. nov. (Coleoptera). *Opuscula zoologica fluminensia*, Flums (SG), 184: 1-6.
- MASCAGNI A. & MONTE C., 2001. Contributo alla conoscenza degli Heteroceridae del Sudafrica e del Madagascar con descrizione di *Heterocerus uhligi* spec. nov. (Coleoptera). *Opuscula zoologica fluminensia*, Flums (SG), 197: 1-9.
- MASCAGNI A. & MONTE C., 2002. Contributo alla conoscenza degli Heteroceridae del Botswana, Malawi, Mozambico, Namibia, Zambia, Zimbabwe (Coleoptera). *Opuscula zoologica fluminensia*, Flums (SG), 206: 1-12.
- MASCAGNI A. & MONTE C., 2003a. Contributo alla conoscenza degli Heteroceridae dell'Angola, Camerun, Central African Republic, Congo, Eritrea, Ethiopia, Kenya Somalia, Sudan, Uganda, Zaire (Coleoptera). *Opuscula zoologica fluminensia*, Flums (SG), 208: 1-14.
- MASCAGNI A. & MONTE C., 2003b. Contributo alla conoscenza degli Heteroceridae di Cape Verde, Benin, Chad, Côte d'Avoire, Ghana, Guinea, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, Togo (Coleoptera). *Opuscula zoologica fluminensia*, Flums (SG), 213: 1-12.
- MASCAGNI A. & MONTE C., 2005. Primo aggiornamento alla check list degli Heteroceridae della Regione afrotropicale (Coleoptera). *Opuscula zoologica fluminensia*, Flums (SG), 219: 1-18.
- MASCAGNI A. & MONTE C., 2008. Contributo alla conoscenza degli Heteroceridae del Nord Africa (Coleoptera). *Onychium*, Firenze, 6: 64-71.
- SKALICKÝ S., 2004. Description of *Augyles nadae* sp. nov. with notes on Heteroceridae of Benin (Coleoptera). *Folia Heyrovskyana*, 12 (2-3): 137-140.

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