

Contribution to the Knowledge of longhorn beetles (Coleoptera, Cerambycidae) from Kenya

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ABSTRACT As a result of expeditions of the first author in Kenya during the period 2003-2006, 40 species and subspecies of longhorn beetles were collected and later determined by Dr. Karl Adlbauer. The faunistic list reports on recent nomenclature, localities of collection as well as geographical distribution of established taxa.

KEY WORDS Cerambycidae, longhorn beetles, Kenia.

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INTRODUCTION

The cerambycid fauna of Ethiopian zoogeographical region includes over 3,000 valid species, but its actual number is undoubtedly greater due to the insufficient knowledge about longhorn beetles in the tropics and subtropics (Plavilstshikov, 1936). During the period 2003-2006, the first author collected many different insect species in Kenya. Among the other coleopterological material, a total number of 40 longhorn beetles were established. The main purpose of this note is to announce the species collected and to give some data about their distribution.

MATERIALS AND METHODS

The study was conducted in different regions of Kenya during the period 2003-2006 (Figs. 1-6). The longhorn beetles were collected by traditional entomological methods:

- Hand collection of cerambycids on flowers and food plants (Fig. 7);
- Collection of cerambycids on grass and bushes by entomological bag;
- Shaking of tree branches and crowns and collection of fallen insects;
- Collection of cerambycids in sticky traps;

- Attracting cerambycids to lamp light;
- Rearing of adults in laboratory conditions from infested parts of food plants.

Collected cerambycids were identified by Dr. Karl Adlbauer.

Studied material is deposited in the Institute of Biodiversity and Ecosystem Research of Bulgarian Academy of Sciences Scientific Found (Sofia, Bulgaria). Single specimens are kept in K. Adlbauer's collection.

RESULTS AND DISCUSSION

PRIONINAE

Macrotomini

Macrotoma palmata (Fabricius, 1792)

Kenya, Elementeita Lake (00°28'31"S, 36°15'46"E), 1820 m, 14/15.IV.2006, 10 exx.; North-east Kenya, Lower Tana River, Gamba Guest House, sticky traps, 20/23.IV.2006, 1 ex.

Distribution: From Marocco to Saudi Arabia and RSA, Mauritius (Adlbauer et al., 2008).

Prionotoma jordani (Lameere, 1903)

Kenya, Bogoria Lake, 11.04.2004, 1 ex.

Distribution: From Senegal to Burundi and Angola (Delahaye et al., 2006).



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

Figure 1. Kenya, Arabuko-Sokoke forest (photo Eduard Jendek).

Figure 2. Kenya, Elementeita lake (photo Eduard Jendek).

Figure 3. Kenya, dead trunk of *Acacia* sp. near Elementeita lake – habitat of *Macrotoma palmata* (photo Eduard Jendek).

Figure 4. Kenya, Taita hills forest (photo Eduard Jendek).

Figure 5. Tana river (photo Gianfranco Curletti).

Figure 6. Kenya, *Acacia lahai* forest in Ngong hills – favorite place for many coleopteran species (photo Eduard Jendek).

CERAMBYCINAE**Xystrocerini**

Xystrocera dispar Fåhraeus, 1872

Kenya, Nyanza District, Ruma National Park, 1050 m, 04.VII.2003, 1 ex.; Kenya, Lower Tana River, Gamba, 25/27.X.2005, 3 exx.

Distribution: Tschad, Sudan, Saudi Arabia, Namibia and RSA (Adlbauer et al., 2008).

Cerambycini

Neoplocaederus spinicornis (Fabricius, 1781)

Kenya, Lower Tana River, Gamba Guest House, sticky traps, 20/23.IV.2006, 2 exx.

Distribution: Mauretania, Zimbabwe (Adlbauer et al., 2008).

Molorchini

Merionoeda africana Distant, 1899

NE Kenya, Arabuko – Sokoke Forest, 24/25.IV.2006, 1 ex.

Distribution: Congo-Kinshasa, Kenya, RSA (Adlbauer, 1995).

Callichromatini

Litopus geniculatus Harold, 1880

Kenya, Road Nairobi-Namanga, Nikobe, 1500 m, 04.XII.2003, 1 ex.

Distribution: Ethiopia, Tanzania (Adlbauer et al., 2008).

Litopus kenyensis Adlbauer, 2002

Kenya, Malindi, Kipepeo farm, (03°13'S, 40°06'E), 30 m, 24/25.VI.2006, 2 exx. (+ 1 ex. in K. Adlbauer's collection) (Adlbauer, 2002).

Distribution: Kenya.

Paracolobizus bicolor (Schmidt, 1922)

Kenya, Malindi, Kipepeo farm, (03°13'S, 40°06'E), 30 m, 24/25.VI.2006, 2 exx.

Distribution: Kenya, Tanzania (Juhel, 2010).

Cloniophorus nyassae (Bates, 1878)

Kenya, Shimba Hills, 150-200 m, 20.IV.2004, 1 ex.

Distribution: Kenya, Malawi (Schmidt, 1922).



Figure 7. *Oligosmerus* sp. (photo Eduard Jendek).

Closteromerus claviger laevipes Fairmaire, 1887

Kenya, Nairobi, 20.IV.2004, 6 exx.; Kenya, Ngong Hills Kiserian Distr. (01°26'56"S, 36°38'19"E), 1940 m, 17.IV.2006, 6 exx.

Distribution: Cameron, Eritrea, Somalia, Tanzania (Adlbauer et al., 2008).

Rhopalomeces fulgurans Schmidt, 1922

Kenya, Nyanza Province, Mbita, (0°24'S, 34°12'E), 1050 m, 18.V.2003, 1 ex.; Kenya, Rifi Valley, Province N Kiserian, 1700 m, 10.VI.2003, 3 exx.; Kenya, Nairobi, 25.XI-20.XII.2003, 2 exx.; Kenya, Nairobi, 20.IV.2004, 3 exx.; Kenya, Narok, 1750 m, 12.V.2004, 1 ex.; Kenya, Nairobi, 10.V.2004, 1 ex.; Central Kenya, Elementeita Lake 1700 m, 12.V.2005, 1 ex.; Kenya, Ngong Hills, Kiserian Distr. (01°26'56"S, 36°38'19"E), 1940 m, 17.IV.2006, 11 exx.

Distribution: Tanzania (Schmidt, 1922).

Rhopalomeces gracilis (Fåhraeus, 1872)

NE Kenya, Arabuko – Sokoke Forest, 24/25.IV.2006, 1 ex.; Kenya, Malindi, Kipepeo farm (03°13'S, 40°06'E), 30 m, 24/25.VI.2006, 3 exx.

Distribution: Congo-Kinshasa, RSA (Adlbauer, 1995).

Promeces longipes (Olivier, 1795)

Kenya, Shimba Hills, 150-200 m, 20.IV.2004, 1 ex.

Distribution: Mocambique, RSA (Adlbauer, 2001).

Promeces suturalis (Harold, 1878)

Kenya, Gamba Distr., 14.IV.2006, 1 ex.; Kenya, Elementeita Lake (00°28'31"S, 36°15'46"E), 1820 m, 14/15.IV.2006, 1 ex.

Distribution: Kenya, Tanzania (Schmidt, 1922).

Hypargyra albilateris ssp. typ. (Harold, 1880)

Kenya, Rifl Valley, Province N Kiserian, 1700 m, 10.VI.2003, 2 exx.; Kenya, Nairobi, 20.IV.2004, 1 ex.; Kenya, Ngong Hills, Kiserian Distr. (01°26'56"S, 36°38'19"E), 1940 m, 17.IV.2006, 4 exx.; NE Kenya, Malindi, Kipepeo Farm, 24.IV.2006, 1 ex.

Distribution: Ethiopia, Kenya, Tanzania (Juhel & Bentanachs, 2009).

Clytini*Calanthemis subcruciatus* (White, 1855)

Kenya, Shimba Hills, 150-200 m, 20.IV.2004, 3 exx.; NE Kenya, Arabuko – Sokoke Forest, 24/25.IV.2006, 1 ex.

Distribution: Somalia, RSA (Adlbauer, 1995).

LAMIINAE**Phantasini***Phantasis avernica* Thomson, 1865

Kenya, Elementeita Lake (00°28'31"S, 36°15'46"E), 1820 m, 14/15.IV.2006, 1 ex.

Distribution: Sudan, RSA (Sudre & Téocchi, 2000).

Lamiini*Monochamus spectabilis* (Perroud, 1855)

NE Kenya, Malindi, Kipepeo Farm, 24.IV.2006, 1 ex.

Distribution: Ethiopia, Congo-Brazzaville, RSA, Madagascar, Comores (Adlbauer et al., 2008).

Morimopsini*Monoxenus infraflavescens* Breuning, 1949

Kenya, Ngangao Forest, (03°21'59"S, 38°20'26"E), 1850 m, 4.XI.2005, 1 ex.

Distribution: Kenya (Breuning, 1950).

Mesosini*Coptops aedificator* (Fabricius, 1792)

Kenya, Lower Tana River, Sailoni, 25.X.2005, 1 ex.

Distribution: Africa (including Seychelles, Comores, Madagascar), Saudi Arabia, SE-Asia, Hawaii (Adlbauer et al., 2008).

Tragocephalini*Spilotragus guttatus* (Jordan, 1903)

Kenya, Road Nairobi-Namanga, Nikobe, 1500 m, 04.XII.2003, 1 ex.; Central Kenya, Road Kiserian to Oltepesi, 1770 m, 05.V.2005, 1 ex.

Distribution: Kenya (Breuning, 1934).

Pseudochariesthes nigroguttata (Aurivillius, 1908)

Central Kenya, Road Kiserian to Oltepesi, 1770 m, 05.V.2005, 1 ex.

Distribution: Kenya, Tanzania (Breuning, 1934).

Prosopocerini*Prosopocera peeli* (Gahan, 1910)

Central Kenya, Elementeita Lake 1700 m, 12.V.2005, 1 ex.

Distribution: Ethiopia, Somalia, Kenya, Tanzania (Adlbauer et al., 2008).

Ceroplesini, Subtribus Crossotina*Freia marmorata* Gerstaecker, 1871

NE Kenya, Arabuko – Sokoke Forest, ex. *Albicia* sp., 24/25.IV.2006, 1 ex.

Distribution: Kenya, Zimbabwe (Breuning, 1942).

Freia aedificatoria Hintz, 1910 =*Freia sublineata* Breuning, 1956

Kenya, Shimba Hills, 150-200 m, 20.IV.2004, 3 exx.

Distribution: Kenya, RSA (Breuning, 1942).

Crossotus plumicornis Serville, 1835

Kenya, Nyanza District, Ruma National Park, 1050 m, 04.VII.2003, 1 ex.; Kenya, Lower Tana River, ex. *Acacia* sp., 25.X.2005, 1 ex.

Distribution: Mauritania, RSA (Sudre et al., 2007).

Crossotus barbatus Gerstaecker, 1871

Kenya, Road Nairobi-Namanga, Nikobe, 1500 m, 04.XII.2003, 1 ex.

Distribution: Sudan, Somalia, Kenya, ?Malawi (Sudre et al., 2007).

Ceroplesini, Subtribus Ceroplesina*Ceroplesis revoili pauli* Fairmaire, 1884

South Kenya, Jipe Lake Forest, ex. *Acacia* sp., 1 ex.

Distribution: Somalia, Kenya, Tanzania (Breuning, 1937).

Ceroplesis bicincta (Fabricius, 1798) (Fig. 8)

Kenya, Ngong Hills, Kiserian Distr. (01°26'56"S, 36°38'19"E), 1940 m, 17.IV.2006, 1 ex.

Distribution: Congo-Kinshasa, RSA (Adlbauer, 2001).

Ceroplesis strandi Breuning, 1935

Western Kenya, Narok, 1750 m, 12.V.2004, 1 ex.; Western Kenya, Narok, 1716 m, 18.V.2005, 2 exx. (+ 1 ex. in K. Adlbauer's collection).

Distribution: Zambia, Kenya (Breuning, 1937).

Apomecynini*Enaretta caudata* (Fahraeus, 1872)

Central Kenya, Bogoria Lake, 900 m, 31.XI.2005, 1 ex.

Distribution: Uganda, RSA (Adlbauer, 2001).

Eunidiini*Eunidia brunneopunctata strigatoides* Breuning, 1939

Kenya, Road Nairobi-Namanga, Nikobe, 1500 m, 04.XII.2003, 1 ex.; Kenya, Lower Tana River, Sailoni Forest (02°09'18"S, 40°11'04"E), 22/23.IV.2006, 1 ex.; Kenya, Road Voi to Taveta, Border of Tsavo West N. P. (03°30'10"S, 38°16'25"E), 28/30.IV.2006, 1 ex.

Distribution: Senegal, Ethiopia, RSA (Adlbauer et al., 2008).



Figure 8. *Ceroplesis bicincta* on *Acacia* sp. (photo Eduard Jendek)

Pteropliini*Pterolophia variolosa* Kolbe, 1894

NE Kenya, Arabuko-Sokoke Forest, 24/25.IV.2006, 1 ex.

Distribution: Kenya, Tanzania (Breuning, 1961a).

Saperdini*Glenea apicalis westermanni* (Thomson, 1860)

Kenya, Gilgil Distr., 14.IV.2006, 1 ex.

Distribution: Togo, RSA (Adlbauer, 2001).

Glenea arida Thomson, 1865

NE Kenya, Arabuko-Sokoke Forest, 24/25.IV.2006, 1 ex.

Distribution: Kenya, RSA (Breuning, 1958).

Phytoecia (Plepisanis) neavei Aurivillius, 1914

Kenya, Narok, 1750 m, 12.V.2004, 1 ex.

Distribution: Kongo-Kinshasa, Uganda, Malawi (Breuning, 1951).

Phytoecia (Blepisanis) suturevittata Breuning, 1951

NE Kenya, Arabuko-Sokoke Forest, 24/25.IV.2006, 2 exx. (+ 1 ex. in K. Adlbauer's collection).

Distribution: Kenya (Breuning, 1951).

Phytoecia (Pseudoplepisanis) somereni Breuning, 1951

Kenya, Narok, 1750 m, 12.V.2004, 1 ex.

Distribution: Kenya (Breuning, 1951).

Oberea pagana Harold, 1880

Central Kenya, Road Kiserian to Oltepesi, 1750-1770 m, 05.V.2005, 1 ex.

Distribution: Ethiopia, Kenya (Adlbauer et al., 2008).

Oberea cingulata Aurivillius, 1914

Kenya, Ngong Hills, Kiserian Distr., (01°26'56"S, 36°38'19"E), 1940 m, 17.IV.2006, 1 ex.

Distribution: Lake Victoria, Kenya, Tanzania (Breuning, 1961b).

CONCLUSIONS

Four species found in this study are known with limited distribution only in Kenya – *Monoxenus infraflavescens*, *Spilotragus guttatus*, *Phytoecia suturevittata* and *P. somereni* – which make them potential endemics for this country. Other five cerambycids appear to be most probably new for Kenya: *Prionotoma jordani*, *Rhopalomeces fulgurans*, *Rhopalomeces gracilis*, *Promeces longipes* and *Ceroplesis bicincta*. It could be noted that new records enlarge our knowledge on these species distribution and increase species diversity of Kenyan fauna. As a main conclusion we have to underline that the Kenyan longhorn beetles fauna is partially and incompletely studied that is why any new contribution is very important to enrich our learning of this fauna.

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REFERENCES

- Adlbauer K., 1995. Bockkäfer aus Zimbabwe und Transvaal, Teil II. Cerambycinae (Coleoptera, Cerambycidae). Lambillionea, 95: 477-496.
- Adlbauer K., 2001. Katalog und Fotoatlas der Bockkäfer Namibias (Cerambycidae). Taita Publishers, Hradec Kralove, 80 pp.
- Adlbauer K., 2002. Neue Cerambyciden aus Afrika sowie neue Synonymien (Coleoptera, Cerambycidae). Les Cahiers Magellanes, 13: 1-10.
- Adlbauer K., Ayalew A., Beck R. & Drumont A., 2008. Cerambyciden aus Äthiopien (Coleoptera, Cerambycidae). Linzer biologische Beiträge, 40: 1153-1191.
- Breuning S., 1934-1935. Etudes sur les Lamiaires (Coléop. Cerambycidae). Première Tribu: Tragocephalini Thomson. Novitates Entomologicae, Suppl. 2-3: 7-98.
- Breuning S., 1937. Quadrième Tribu: Ceroplesini Thomson. Novitates Entomologicae, Suppl. 3: 231-270.
- Breuning S., 1942. Dixième tribu: Crossotini Thoms. Novitates Entomologicae, Suppl. 3, Fasc. 73-84: 8-101.
- Breuning S., 1950. Revision des "Morimopsini". Longicornia, 1: 161-262.
- Breuning S., 1951. Revision du genre *Phytoecia* (Col. Cerambycidae). Entomologische Arbeiten aus dem Museum Frey, 2: 1-103 and 353-460.
- Breuning S., 1958. Revision der Gattung *Glenea* Newm. (Col. Ceramb.) (3. Fortsetzung und Schluß). Entomologische Arbeiten des Museums Frey, 9: 804-907.
- Breuning S., 1961a. Révision des Pteropliini de l'Afrique noire (Troisième partie). Bulletin de l'I.F.A.N., 23, sér. A: 1054-1097.
- Breuning S., 1961b. Revision systématique des espèces du genre *Oberea* Mulsant du globe (Coleoptera Cerambycidae) (2^{me} partie). Frustula Entomologica, 4: 61-140.
- Delahaye N., Drumont A. & Sudre J., 2006. Catalogue des Prioninae du Gabon (Coleoptera, Cerambycidae). Lambillionea, 106, supp.: 1-32.
- Juhel P., 2010. Troisième contribution à l'étude des Callichromatini africains: à propos du genre *Colobizus* Schmidt, 1922 (Coleoptera, Cerambycidae, Cerambycinae). Les Cahiers Magellanes, NS, 2: 31-38.
- Juhel P. & Bentanachs J., 2009. Révision du genre *Helymaeus* Thomson, 1864 et les genres voisins (Coleoptera, Cerambycidae, Cerambycinae). Magellanes, Collection systématique, 22: 1-81.
- Plavilstshikov N., 1936. Faune de l'URSS. Insectes Coleopteres. 21. Cerambycydae (P. 1), Moscou-Leningrad, Edition de l'Academie des Sciences de l'URSS. 612 pp.
- Schmidt M., 1922. Die afrikanischen Callichrominen (Col. Ceramb.). Archiv für Naturgeschichte, 6: 61-232.
- Sudre J. & Téocchi P., 2000. Révision de la tribu des Phantasini (Col. Cerambycidae, Lamiinae). Magellanes, Collection systématique, 4: 1-81.
- Sudre J., Téocchi P., Sama G. & Rousset F., 2007. Les genres *Crossotus*, *Biobessoides* et *Epidichostates* (Coleoptera, Cerambycidae, Lamiinae, Crossotini). Magellanes, Collection systématique, 15: 1-78.