

**Contribution to the knowledge of the *CICINDELIDAE* of Senegal
(*Coleoptera, Cicindelidae*)
von Karl WERNER**

ABSTRACT

1. An annotated list is given of the *Cicindelidae* known so far from Senegal. Collecting data and habitat observations are given for several species collected recently.

2. *Prothyma concinna cursor* GUERIN 1849, *Ropaloteres flavosignatus* (CASTELNAU 1835), *Myriochile (Monelica) flavidens* (GUERIN 1849), and *Myriochile (s. str.) melancholica* (FABRICIUS 1798) are recorded for the first time from the Senegal. *Megacephala megacephala* (OLIVIER 1790) is recorded for the first time from Gambia and Sudan. *Prothyma concinna* s. str. (DEJEAN 1831) is recorded for the first time from Mauretania. *Prothyma leprieurii* (DEJEAN 1831) is recorded for the first time from Cameroun and Mauretania. *Ropaloteres cinctus* (OLIVIER 1790), *Lophyra (s. str.) neglecta neglecta* (DEJEAN 1825), and *Lophyra (s. str.) senegalensis* (DEJEAN 1825) are recorded for the first time from Gambia. *Lophyra (s. str.) escheri* (DEJEAN 1831) is recorded for the first time from Sierra Leone. *Myriochile (Monelica) dumolinii* (DEJEAN 1831) is recorded for the first time from Nigeria.

Key words: Cicindelidae, new records, West Africa, Senegal.

INTRODUCTION

This work is based mainly on *Cicindelidae*, recently captured in the Senegal (and Gambia) by my friends from France and Germany, Philippe MORETTO, Solliès-Pont, Francois ROUSSET, Marseille, and Dr. med. Helmut PROBST, Türkheim. Also I have obtained some more interesting species from the Senegal from Mr. Gianfranco CURLETTI, Carmagnola, Italy.

The occasion of this paper is used to present the data of all tiger beetles from the Senegal, of my collection as well. While checking all the species presumably occurring in the Senegal, new records from other West African countries came to my attention; they are presented here too. All treated specimens are in my collection.

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LIST OF SPECIES PRESENTLY KNOWN FROM THE SENEGAL

Familia *Cicindelidae* LATREILLE 1806

Subfamilia *Cicindelinae* CSIKI 1906

Tribus *Megacephalini* CSIKI 1906

Megacephala quadrisignata DEJEAN 1829

Megacephala bocandei GUERIN 1848

Megacephala megacephala (OLIVIER 1790)

Tribus *Cicindelini* SLOANE 1906

Subtribus *Prothymina* W.HORN 1910

Prothyma concinna (DEJEAN 1831)

Prothyma concinna cursor GUERIN 1849

Prothyma leprieurii (DEJEAN 1831)

Euryarthron festivum (DEJEAN 1831)

Subtribus *Cicindelina* W.HORN 1897

Prothymidia vuilletoorum (W.HORN 1914)

Elliptica lugubris (DEJEAN 1825)

Elliptica lugubris anthrax (W.HORN 1915)

Elliptica deyrollei (GUERIN 1849)

Ropaloteres vittatus (FABRICIUS 1801)

Ropaloteres feisthameli (GUERIN 1849)

Ropaloteres nysa (GUERIN 1849)

Ropaloteres cinctus (OLIVIER 1790)

Ropaloteres flavosignatus (CASTELNAU 1835)

Hipparidium caternaulti GUERIN 1849

Hipparidium interruptum (FABRICIUS 1795)

Calochroa flavomaculata sexsignata (MANDL 1954)

Lophyridia aulica (DEJEAN 1831)

Lophyridia aulica polysita (GUERIN 1849)

Lophyridia fimbriata (DEJEAN 1831)

Lophyridia asperula (DUFOUR 1821)

Lophyra (s. str.) *neglecta* (DEJEAN 1825)

Lophyra (s. str.) *senegalensis* (DEJEAN 1825)

Lophyra (s. str.) *escheri* (DEJEAN 1831)

Lophyra (*Stenolophyra*) *luxeri* (DEJEAN 1831)

Lophyra (*Eriolophyra*) *arnoldi* (W.HORN 1904)

Habrodera nitidula (DEJEAN 1825)

Habrodera nitidula scheerpeltzi (MANDL 1958)

Habrodera leucoptera (DEJEAN 1831)

Chaetodera regalis (DEJEAN 1831)

Cylindera (*Ifasina*) *octoguttata* (FABRICIUS 1787)

Myriochile (*Monelica*) *flavidens* (GUERIN 1849)

Myriochile (*Monelica*) *fastidiosa vicina* (DEJEAN 1831)

Myriochile (*Monelica*) *dorsata* (BRULLE 1834)

Myriochile (Monelica) dumolinii (DEJEAN 1831)
Myriochile (s. str.) plurinotata (AUDOIN & BRULLE 1839)
Myriochile (s. str.) melancholica (FABRICIUS 1798)
Cratochaera brunet (GORY 1833)
Cratochaera chrysopyga (W.HORN 1892)

EXAMINED SPECIES

Genus *Megacephala* LATREILLE 1802

Megacephala megacephala

(OLIVIER 1790); Ent. II, nr. 33, p. 8.

Senegal: M'bour, 12. - 15. VIII. 1995, P. MORETTO leg., 2 m; Niokolo, Niokolo Koba National Park, 20. - 30. VIII. 1995, P. MORETTO leg., 1 m. Gambia: near Banjul, 13. - 20. VII. 1993, H. PROBST leg., 2 m, 1 f. - new record for Gambia.

Sudan: North Darfur Prov., El Geneina, 10. VII. 1978, IBRAHIM M. ABU ZINID leg., "at light", 1 m, 1 f. - new record for Sudan.

A typical species of the Sahel zone, consequently the occurrence in the Sudan is no surprise. Not rare in collections. Both collectors, P. MORETTO and H. PROBST, have taken the specimens close at street-lights during night. Known from Senegal, Mauretania, Guinea-Bissau, Mali, Burkina Faso, Niger, Nigeria, Tchad and Sudan.

Genus *Prothyma* HOPE 1838

Prothyma concinna concinna

(DEJEAN 1831); Spec. Col. V, p. 218.

Senegal: Richard Toll, 7./8. VIII. 1995, P. MORETTO leg., 2 m, 12 f.

Mauretania: S-Mauretania, Boyhe, X. 1968, H. POLITZAR leg., 1 f. - new record for Mauretania.

Prothyma concinna s. str. was previously known only from the Senegal. The Mauretanian locality "Boyhe", which I suppose to be "Bogue" or "Boghe", according to available maps, is situated just at the border to Senegal. This species was described as a subspecies of *Prothyma versicolor* (DEJEAN 1825), but later SCHILDER (1953) treated it as a separate species with 7 subspecies. I have treated this fact in a previous paper (WERNER 1993a, p. 9). The species is rare in collections. P. MORETTO has taken *Prothyma concinna* at light in a subdesert biotope.

Prothyma concinna cursor

GUERIN 1849; Rev. Mag. Zool. I, p. 77.

Senegal: Niokolo, Niokolo Koba National Park, 20. - 30. VIII. 1995, P. MORETTO leg., 3 m, 2 f; Simenti, Niokolo Koba National Park, 20. - 30. VIII. 1995, P. MORETTO leg., 1 f; Parc Niokolo Koba, 25. X. 1972, R. NAVIAUX leg., 1 m. - first record for Senegal.

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According to WIESNER (1992, p. 56), this species is restricted to Guinea. Thus, this is a new record for the Senegal. Recently it was recorded as well from Guinea-Bissau (SERRANO 1995, p. 71). Rare in collections. P. MORETTO has captured it at light in a tree savannah habitat.

Prothyma lepieurii

(DEJEAN 1831); Spec. Col. V, p. 219.

Senegal: Simenti, Niokolo Koba National Park, 20. - 30. VIII. 1995, P. MORETTO leg., 1 m, 1 f.

Cameroun: Bibidjia, VII. 1987, F. ROUSSET leg., 2 m, 2 f. - new record for Cameroun.

Mauretania: S-Mauretania, Boyhe, X. 1968, H. POLITZAR leg., 1 m. - new record for Mauretania.

This species is known from Senegal, Mali, Burkina Faso, Guinea-Bissau, Tchad, Zaire, Ethiopia, Eritrea, Sudan, and Yemen. For the Mauretanian locality see my comments under *P. concinna* s. str. In Senegal it was captured together with *P. concinna cursor* (P. MORETTO, pers. comm.). *P. lepieurii* is quite common in the collections.

Genus *Euryarthron* GUERIN-MENEVILLE 1849

Euryarthron festivum

(DEJEAN 1831); Spec. Col. V, p. 220.

Gambia: near Banjul, 13. - 20. VII. 1993, H. PROBST leg., 3 m.

A very rare species. Known from Gambia, Senegal, Guinea, Guinea-Bissau, and Sudan (probably the former French-Sudan, which means today Mali).

Genus *Elliptica* Fairmaire 1884

Elliptica lugubris

(DEJEAN 1825), Spec. Col. I, p. 39.

Senegal: Casamance, Djembering, 15. - 17. VII. 1993, H. PROBST leg., 1 f.

A big and beautiful species with a wide distribution. H. PROBST has taken one female at light in a forested area with plenty of brushwood. It is known from Senegal, Guinea-Bissau, Guinea, Mali, Sierra Leone, Togo, Nigeria, Cameroun, Guinea-Equatorial, Central African Republic, Uganda, Zaire, and Kenya. Rather rare in collections.

Genus *Ropaloteres* GUERIN-MENEVILLE 1849

Ropaloteres feisthameli

(GUERIN-MENEVILLE, 1849); Rev. Mag. Zool., p. 140.

Senegal: Niokolo, Niokolo Koba National Park, 20. - 30. VIII. 1995, P. MORETTO leg., 1 f.

This widely distributed species is known from Senegal, Sierra Leone, Guinea, Guinea-Bissau, Burkina Faso, Nigeria, Ghana, Sudan, Zaire, Uganda, and Ethiopia. Despite of the wide distribution, it is uncommon in collections.

Ropaloteres cinctus

(OLIVIER, 1790); Ent. II, 33, p. 10.

Senegal: Casamance, VI. 1985, F. ROUSSET leg., 4 m, 2 f. Gambia: near Banjul, 13. - 20. VII. 1993, H. PROBST leg., 2 m, 2 f. - first record from Gambia.

In Gambia found on paths leading through secondary forest, but also occurring on clearances (H. PROBST, pers. comm.). A common species in Western and Central Africa, extending even to Ethiopia and Uganda. Common in the collections.

Ropaloteres flavosignatus

(CASTELNAU, 1835); Etud. Ent. I, p. 139.

Senegal: Casamance, VI. 1985, F. ROUSSET leg., 5 m, 4 f. - new record for Senegal.

A very beautiful species with big yellow-orange markings. It is known from Guinea, Guinea-Bissau, Togo, Cameroun, Zaire, Central African Republic, and Southern Sudan. Two subspecies have been described from the Eastern African countries Uganda and Kenya (ssp. *flavoreductus* (W.HORN 1925)), and from Tanzania and Zambia (ssp. *cupreoreductulus* NIDEK, 1980). Not very common in collections.

Genus *Lophyra* MOTSCHULSKY, 1861

Subgenus *Lophyra* s. str.

Lophyra* (s. str.) *neglecta neglecta

(DEJEAN 1825), Spec. Col. I, p. 114.

Senegal: Casamance, Djembering, 15. - 17. VII. 1993, H. PROBST leg., 1 m, 2 f. Gambia: near Banjul, 13. - 20. VII. 1993, H. PROBST leg., 1 f. - new record for Gambia.

Other subspecies are occurring in Tchad and Eastern African regions. In Djembering it was found at sand dunes sparsely covered with grass, in a distance of about 50 meters from the coast (H. PROBST, pers. comm.). *L. neglecta neglecta* is a very common West African species, known yet from Senegal, Gambia, Guinea-Bissau, Guinea, Sierra Leone, Togo, Tchad, Ghana, Ivory Coast, Nigeria, Sao Thome, Congo, Zaire, Angola, Ethiopia, and Eritrea.

Lophyra* (s. str.) *senegalensis

(DEJEAN, 1825); Spec. Col. I, p. 117.

Senegal: M'bour, 12. - 15. VIII. 1995, P. MORETTO leg., 2 m, 2 f; Gossas, 8. VIII. 1992, G. CURLETTI leg., 1 m; St. Louis, 80 km S, 31. VII. 1992, G. CURLETTI leg., 1 m; St. Louis, 10 km E, 27. VII. - 8. VIII. 1992, G. CURLETTI leg., 1 m. Casamance, Djembering, 15. - 17. VII. 1993, H. PROBST leg., 2 m. Gambia: near Banjul, 13. - 20. VII. 1993, H. PROBST leg., 2 m, 1 f. - new record for Gambia.

Described from Senegal, this species is also known from Guinea-Bissau, Sierra Leone, Tchad, Ghana, Togo, Nigeria, Central African Republic, Eritrea. Recently it was recorded from Kenya (WERNER 1993, p. 64). Not common in collections. Taken in the same habitat as *L. neglecta* (H. PROBST, pers. comm.).

Lophyra (s. str.) escheri

(DEJEAN, 1831); Spec. Col. V, p. 232.

Senegal: Casamance, Djembering, 15. - 17. VII. 1993, H. PROBST leg., 2 m, 3 f.
Sierra Leone: 30 km SE Freetown, Tokeyvillage, VIII.91, H.ABELE & H. PROBST leg., 3 m, 3 f. - new record for Sierra Leone.

A rare species with unique elytral markings in the Subgenus *Lophyra s. str.*, previously known from Senegal, Guinea, and Guinea Bissau only. Very rare in collections. Taken at the same locality as *L. senegalensis* (H. PROBST, pers. comm.).

Genus *Habrodera* MOTSCHULSKY, 1862

Habrodera leucoptera

(DEJEAN, 1831); Spec. Col. V, p. 253.

Senegal: Lac Retba, 16. VIII. 1975, R. NAVIAUX leg., 1 f.

H. leucoptera was described from Senegal. A doubtful record is still cited from Morocco (Khourigba), but needs in my opinion confirmation. *H. leucoptera* is reported to occur from Senegal to Angola, but presently we do not know the exact geographic line, where the subspecies *H. leucoptera leucoptera* can be separated from the Southern taxon *H. leucoptera cabinda* (BATES 1878). In my collection I have the latter from Cabinda, Angola. Rare in collections.

Genus *Cylindera* WESTWOOD, 1831

Subgenus *Ifasina* JEANNEL, 1946

Cylindera (Ifasina) octoguttata

(FABRICIUS, 1787); Mant. Ins., I, p. 187.

Senegal: Niokolo, Niokolo Koba National Park, 20.- 30. VIII. 1995, P. MORETTO leg., 1 m, 1 f.

A very common species with wide distribution. Known from Senegal, Sierra Leone, Ivory Coast, Liberia, Guinea, Guinea-Bissau, Ghana, Togo, Nigeria, Cameroun, Gaboon, Central African Republic, Zaire, Mali, Sudan, Angola, Namibia, Guinea-Equatorial, Southafrica, Benin, Congo, Ethiopia. Subspecies in Cameroun (subsp. *magnoreducta* (W.HORN, 1921)). Common in collections.

Genus *Myriochile* MOTSCHULSKY, 1862

Subgenus *Monelica* RIVALIER, 1950

Myriochile (Monelica) flavidens

(GUERIN, 1849); Rev. Mag. Zool., p. 148.

Senegal: Simenti, Niokolo Koba National Park, 20. - 30. VIII. 1995, P. MORETTO leg., 1 m, 1 f. - new record for Senegal.

This small and dark species has a wide range, but is rare in collections. Today known from Senegal, Guinea, Guinea-Bissau, Sierra Leone, Burkina Faso, Togo, Nigeria Cameroun, Central African Republic, Zaire, Uganda, Sudan, and Eritrea.

Myriochile (Monelica) fastidiosa vicina

(DEJEAN, 1831); Spec. Col. V, p. 244.

Senegal: Simenti, Niokolo Koba National Park, 20. - 30. VIII. 1995, P. MORETTO leg., 4 m, 2 f; Niokolo, Niokolo Koba National Park, 20.- 30. VIII. 1995, P. MORETTO leg., 2 m, 1 f. M'bour, 12. - 15. VIII. 1995, P. MORETTO leg., 6 m, 9 f.

A widely distributed species, common in collections. Closely related species are occurring in the Eastern and Southern parts of Africa (WERNER, in prep.). I am only sure about its occurrence in the Sahel zone and in Western Africa, from Mauritania to Angola.

Myriochile (Monelica) dorsata

(BRULLE, 1834); Rev. Ent. Silberm. II, p. 98.

Senegal: M'bour, Sali Portudal, 4. VIII. 1987, BARBERO & BONATO leg., 2 m; St. Louis, 10 km E, 27. VII. - 8. VIII. 1992, G. CURLETTI leg., 1 f; Sarsar (Darou Mousti), 3. VIII. 1992, G. CURLETTI leg., 3 f.

Not rare in collections, but difficult to separate from *M. (Monelica) mirei* RIVALIER 1961, and *M. (Monelica) pauliani* (COLAS 1942). Known from Senegal, Mauritania, South Algeria, Tchad, and Sudan. WIESNER (1992, p. 209) cites it from Ethiopia as well, but no reference was discovered in revisions of the *Cicindelidae*-fauna of this country (CASSOLA 1978 and WERNER 1993a).

Myriochile (Monelica) dumolinii

(DEJEAN, 1831); Spec. Col. V, p. 233.

Senegal: Ross Bethio, 8. VIII. 1992, G. CURLETTI leg., 1 m; M'bour, 12. - 15. VIII. 1995, P. MORETTO leg., 2 m, 3 f.

Nigeria: env. Katsina, VIII. 1993, CLAVEAU leg., 1 m. - new record for Nigeria.

A big and rare species, distributed in the Sahel-Region. Known from Senegal, Tchad, Niger, and presently from Nigeria. As it happened with *M. dorsata*, WIESNER (1992) has cited *M. dumolinii* from Ethiopia, but there is no reference existing (CASSOLA 1978 and WERNER 1993a).

Subgenus *Myriochile* s.str.

Myriochile (s. str.) plurinotata

(AUDOIN & BRULLE, 1839); Arch. Mus. Paris I, p. 125.

Senegal: Simenti, Niokolo Koba National Park, 20. - 30. VIII. 1995, P. MORETTO leg., 1 f; Niokolo, Niokolo Koba National Park, 20.- 30. VIII. 1995, P. MORETTO leg., 2 m.

The smallest species in the Subgenus, widely distributed, but rare in collections. Known from Senegal, Mali, Mauritania, Guinea-Bissau, Sierra Leone, Burkina Faso, Niger, Nigeria, and Central African Republic. Recently recorded from Ivory Coast (FAHR, unpublished).

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Myriochile (s. str.) melancholica

(FABRICIUS, 1798); Ent. Syst. Suppl., p. 63.

Senegal: Simenti, Niokolo Koba National Park, 20. - 30. VIII. 1995, P. MORETTO leg., 1 m; M'bour, 12. - 15. VIII. 1995, P. MORETTO leg., 1 m, 1 f. - new record for Senegal.

This common species is known to occur all over Africa. However, I did not find it anywhere cited from Senegal. Consequently I have to record it as new for this country. *M. melancholica* is very common in collections.

RESULTS

PEARSON & CASSOLA (1992) have reported 33 species for the Senegal. Today, including the new records shown in this publication, there are 42 species and subspecies known to occur. None of these is an endemic element of the fauna of Senegal. All species are typical "Guinean" - or "Sahelian" - species, and the newly recorded species have been more or less suspected to be present in the territory of the Senegal.

ACKNOWLEDGEMENTS

I want express my very best thanks to my friends from France and Germany, Philippe MORETTO, Solles-Pont, Francois ROUSSET, Marseille, and Dr. med. Helmut PROBST, Türkheim, who kindly supplied me with their recently in Senegal captured specimens of *Cicindelidae*. To my friend Alexander RIEDEL, Friedberg I say thank you for checking my english text.

ZUSAMMENFASSUNG

1. Eine aktuelle Liste der aus dem Senegal bekannten *Cicindelidae* wird erstellt und Sammlungsdaten, sowie Habitatsangaben für in den letzten Jahren gesammelte Arten werden beschrieben.

2. *Prothyma concinna cursor* GUERIN 1849, *Ropaloteres flavosignatus* (CASTELNAU 1835), *Myriochile (Monelica) flavidens* (GUERIN 1849) und *Myriochile (s. str.) melancholica* (FABRICIUS 1798) werden erstmalig für den Senegal gemeldet. *Megacephala megacephala* (OLIVIER 1790) wird erstmals aus Gambia und dem Sudan gemeldet. *Prothyma concinna* s. str. (DEJEAN 1831) wird als neu für Mauretanien gemeldet. *Prothyma leprieurii* (DEJEAN 1831) wird erstmals aus Kamerun und Mauretanien gemeldet. *Ropaloteres cinctus* (OLIVIER 1790), *Lophyra (s. str.) neglecta neglecta* (DEJEAN 1825), and *Lophyra (s. str.) senegalensis* (DEJEAN 1825) werden als neu für die Fauna von Gambia gemeldet. *Lophyra (s. str.) escheri* (DEJEAN 1831) wird erstmals aus Sierra Leone gemeldet. *Myriochile (Monelica) dumolinii* (DEJEAN 1831) wird erstmals aus Nigeria gemeldet.

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ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Acta Coleopterologica](#)

Jahr/Year: 1996

Band/Volume: [12_1](#)

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