

## Aculeate Hymenoptera collected 1985 in the Republic of Central Africa (Sphecidae, Eumenidae, Vespidae, Pompilidae, Chrysididae and Scoliidae)

By Hermann DOLLFUSS, St. Pölten

### Abstract

A list of Aculeate wasps collected in Kembe (4.29N, 21.53E) during July and August 1985 is presented.

### Resumé

Une liste des guêpes collectionnées à Kembe (4.29N, 21.53E) en juillet et août 1985 est offerte.

### Introduction

During July and August 1985 I had the possibility to spend a pleasant time collecting insects in Central Africa. I was living with my cousin's family in Kembe, a town situated in the south of the country near Zaire in the savanna. During the months of July and August it is the rainy season in this region; the vegetation was in full bloom and the temperatures were tolerable. It was therefore a perfect time to catch insects.

My cousin worked in Kembe at the "Animation Rurale" of the Catholic Mission as a development volunteer. As such, he had to visit a surrounding area of approximately 100 km and I used this opportunity to travel with him and collect insects. In doing so, it was also possible for me to get to know areas of Africa untouched by civilisation.

I was able to catch about 2000 Aculeate Hymenoptera and bring them back to Austria. After completing preparation I sent the majority of the material to specialists all over the world, since I myself am not familiar with the identification of Ethiopian insects.

In the meantime a considerable amount of the material has been worked through, so I'd like to publish my preliminary results. When further determination results arise, I plan to publish them later.

### Acknowledgements

First of all, I would like to thank my cousin Mag. Franz Schrittwieser and his wife Gertrude for their hospitality. Through their cordial reception they made my stay very pleasant, and my work as a collector unproblematic.

I sincerely thank the following specialists for identification of the material:

Dr. W. J. PULAWSKI, California Academy of Sciences, San Francisco, USA – Sphecidae: *Tachysphex*, *Gastrosericus*.

Prof. Dr. J. LECLERQ, Liège, Belgium – Sphecidae: *Dasyproctus*, *Arnoldita*, *Encopognathus*, *Crossocerus*.

Dr. A. J. S. WEAVING, Albany Museum of Grahamstown, Republic of South Africa – Sphecidae: *Dolichurus*, *Ammophila*.

Dr. O. LOMHOLDT, Zoologisk Museum Kobenhavn, Denmark – Sphecidae: *Paranysson*.

R.V.HENSEN, Rijksmuseum van Natuurlijke Historie Leiden, The Netherlands – Sphecidae: *Chalybion*, *Sphex*, *Isodontia*, *Prionyx*, *Chlorion*, *Tachytes*, *Lyroda*, *Dicranorhina*.

Dr. J. GUSENLEITNER, Linz, Austria – Eumenidae, Vespidae.

Dr. R. WAHIS, Faculté des Sciences Agronomiques, Gembloux, Belgium – Pompilidae.

Dr. W. LINSSENMEIER, Ebikon, Switzerland – Chrysididae.

Dr. Q. ARGAMAN, Ministry of Agriculture, Department of Plant Protection, Beit-Dagan, Israel – Scoliidae.

Let me thank my colleague Joanna Morrison for help with English.

## Results

The species in the following lists all originate in Kembe (4.29 N, 21.53 E), and the surrounding areas of approximately 100 km. They were all caught in July and August 1985. The species listed below offered no problems for identification. New species and species which could not clearly be identified will be treated in later publications by the specialists concerned.

### Sphecidae

Sphecini: det. R. V. HENSEN

*Sphex tomentosus* FABRICIUS, 10♂, 3♀

*Sphex fuscatus* CHRIST, 3♂, 7♀

*Sphex lanatus* MOCSARY, 3♂, 3♀

*Sphex "luteipennis"* auct., 1♂

*Isodontia pelopoeiformis* (DAHLBOM), 1♂, 4♀

*Prionyx kirbii* (VANDER LINDEN), 3♂, 2♀

*Chalybion*, *Chlorion*: det. R. V. HENSEN

*Chalybion bocandei aeronitens* HENSEN,  
8♂, 24♀

*Chlorion maxillosum ciliatum* (FABR.), 1♂

*Sceliphron*: det. H. DOLLFUSS

*Sceliphron fossuliferum* (GRIBODO), 1♂, 1♀

*Sceliphron quartinae* (GRIBODÓ), 1♂, 1♀

*Sceliphron spirifex* (LINNAEUS), 21♂, 14♀

*Ammophila*: det. A. J. S. WEAVING

*Ammophila beniniensis* (PALISOT de BEAU-  
VOIS), 27♂, 4♀

*Ammophila insignis litoralis* (ARNOLD)  
12♂, 3♀

Ampulicinae

*Dolichurus*: det. A. S. J. WEAVING

*Dolichurus ignitus* F. SMITH, 1♀

Crabroninae: det. J. LECLERQ

*Arnoldita perarmata* (ARNOLD)

*Crossocerus acephalus* LECLERQ, 4♂, 1♀

*Crossocerus bulawayoensis* (ARNOLD), 1♀

*Dasyproctus araboides* LECLERQ, 4♀

*Dasyproctus bakeri nyholmi* (ARNOLD), 4♀

*Dasyproctus benoiti* LECLERQ, 1♀

*Dasyproctus bipunctatus bipunctatus* LEPE-  
LETIER & BRULLE, 3♀

*Dasyproctus bredoi* (ARNOLD), 1♀

*Dasyproctus croceosignatus* (ARNOLD), 3♀

*Dasyproctus immittis* (SAUSSURE), 2♂, 3♀

*Dasyproctus speighti* LECLERQ, 1♀

*Dasyproctus stephensonianus* (ARNOLD),  
1♂, 3♀

*Encopognathus liongoi* LECLERQ, 1♂, 3♀

Larrinae *Paranysson*: det. O. LOMHOLDT

*Paranysson melanopyrus* (SMITH), 5♂

*Paranysson oscari* TURNER, 1♂, 1♀

*Tachytes*: det. R. HENSEN

*Tachytes aurichalceus* KOHL, 3♂

*Tachytes disputabilis* TURNER, 1♀

*Tachytes nigropilosellus* (CAMERON), 2♀

*Tachytes notabilis* TURNER, 10♂, 2♀

*Tachytes tomentosus* KOHL, 15♂, 1♀

*Gastrosericus*, *Tachysphex*:

det. W. PULAWSKI

*Gastrosericus neavei* TURNER, 1♂, 2♀

*Tachysphex fugax* (RADOSZKOWSKI), 6♂, 2♀

*Lyroda*: det. R. HENSEN

*Lyroda aethiopica* KOHL, 1♀

*Dicranorhina*: det. H. DOLLFUSS

*Dicranorhina woerdeni* (RITSEMA), 1♂, 1♀

The specimens of the following genera of Sphecidae have not yet been identified but they have been sent to the following specialists: *Liris* have been sent to R. V. HENSEN, The Netherlands, *Carinostigmus* have been sent to A. T. FINNAMORE, Alberta, Canada, and *Trypoxylon* to A. V. ANTROPOV, Moscow, USSR.

*Oxybelus* (7 specimens), *Bembix* (10 specimens), *Philanthus* (79 specimens) and *Cerceris* (74 specimens) have not been examined before.

**Eumenidae: det. J. GUSENLEITNER**

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|---|---|
| <i>Afreumenes a. aethiopicus</i> (SAUSS.), 3♂, 1♀     | <i>Delta h. hottentottum</i> (SAUSS.), 6♂, 1♀   |
| <i>Afreumenes m. melanosoma</i> (SAUSS.), 5♂, 3♀      | <i>Delta tropicalis</i> (SAUSS.), 14♂, 2♀       |
| <i>Antepipona jocosa tropicaloides</i> G.S., 36♂, 38♀ | <i>Eumenes fueelleborneanus langi</i> BEQU., 5♂ |
| <i>Antepipona mucronata</i> (SAUSS.), 1♂, 1♀          | <i>Paramischocyttarus buyssoni</i> GRIB., 2♂    |
| <i>Anterhynchium aestuans</i> (SAUSS.), 1♂            | <i>Proepipona falcata</i> (TULLGR.), 2♀         |
| <i>Anterhynchium synagroides</i> (SAUSS.), 4♂, 6♀     | <i>Proepipona laterale</i> (FABR.), 1♂, 1♀      |
| <i>Antodynerus ardens</i> (GUER.), 1♂                 | <i>Pseudonortonia gambiense</i> (M.W.), 6♂, 5♀  |
| <i>Antodynerus multicolor</i> (SAUSS.), 5♂, 1♀        | <i>Pseudonortonia soror</i> (KOHL), 1♀          |
| <i>Cyrtolabulus garambensis</i> (BEQU.), 1♂           | <i>Synagris calida</i> (LINNAEUS), 5♂           |
| <i>Delta emarginatum</i> (LINNAEUS), 9♂, 10♀          | <i>Synagris cornuta</i> (LINNAEUS), 1♂, 3♀      |
| <i>Delta higletti rendalli</i> (BINGH.), 5♂, 4♀       |   |

**Vespidae: det. J. GUSENLEITNER**

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|---|---|
| <i>Belonogaster clypeata</i> KOHL, 1♂   | <i>Belonogaster junceus</i> (FABR.), 6♀   |
| <i>Belonogaster griseus</i> (FABR.), 4♀ | <i>Belonogaster pusilloides</i> RICH., 9♀ |

**Pompilidae: det. R. WAHIS**

**Pepsinae:**

- |   |  |
|---|--|
| <i>Auplopus nigroaurantiacus</i> (MAGRETTI), 1♀   | <i>Episyron nexilis</i> KOHL, 4♂, 9♀         |
| <i>Auplopus remipes</i> (ARNOLD), 2♂, 6♀          | <i>Episyron ornatissimus</i> (RITSEMA), 2♀   |
| <i>Auplopus rufocinctus</i> (SMITH), 2♀           | <i>Paracyphononyx africanus</i> RAD., 2♂     |
| <i>Cyemagenia kloofensis</i> (CAMERON), 1♀        | <i>Paracyphononyx diversus</i> (DAHLBOM), 4♀ |
| <i>Cyemagenia rubrozonata</i> (CAMERON), 1♀       | <i>Paracyphononyx zonatus</i> (ILLIGER), 3♀  |
| <i>Hemipepsis lineaticollis</i> (CAMERON), 1♂, 1♀ | <i>Pompilus cinereus</i> FABRICIUS, 1♂, 9♀   |
|   | <i>Pygmachus umbratus</i> HAUPT, 1♂          |
|   | <i>Schistonyx nyassae</i> (DALLA TORRE), 3♀  |

**Pompilinae:**

- Amblyellus willowmorensis* (ARNOLD), 1♀  
*Anoplius morosus* (SMITH), 1♀  
*Batozonellus capensis* (DAHLBOM), 1♀  
*Batozonellus fuliginosus* (KLUG), 1♂, 3♀  
*Episyron histrio* (LEPELETIER), 1♀

**Ceropalinae:**

- Ceropales africana* MOCZAR, 5♀  
*Ceropales maroccana* de BEAUMONT, 1♂  
*Ceropales punctulata bulawayoensis*  
 BISCHOFF, 2♂

**Chrysididae: det. W. LINSENMAIER**

- |  |   |
|--|---|
| <i>Chrysis</i> s. str. <i>fraudulenta</i> -group             | <i>Chrysis (Pyria) lyncea</i> FABRICIUS   |
| <i>Chrysis (Praestochrysis)</i> sp.                          | <i>Chrysis (Pyria) stilboides</i> SPINOLA |
| <i>Chrysis (Trichrysis) fraterna</i> MOCSARY                 | <i>Hedychrum bouyssoni</i> BUYSSON        |
| <i>Chrysis (Trichrysis) inops nigeriaca</i> LINSEN-<br>MAIER | <i>Hedychrum coelestinum</i> SPINOLA      |
| <i>Chrysis (Otochrysis) areata</i> MOCSARY                   | <i>Hedychridium</i> sp.                   |
| <i>Chrysis (Otochrysis) heymonsi</i> BISCHOFF                | <i>Parnopes smaragdinus</i> SMITH         |
| <i>Chrysis (Cornuchrysis)</i> sp. <i>pachystoma</i> -group   | <i>Stilbum cyanurum</i> FORSTER           |

W. LINSENMAIER is still working on this material and he will publish more exact information by himself.

**Scoliidae: det. Q. ARGAMAN**

*Aureimeris fasiatella* (KLUG), 1 ♂

*Campsomeriella dimidiatipennis* (SAUSS.), 2 ♂

*Campsomeriella senilis* (FABRICIUS), 2 ♂

*Micromeriella hyalina* (KLUG), 3 ♂

G. NONVELLER, Yugoslavia, is working on the Mutillidae, Q. ARGAMAN, Israel, is working on Tiphiidae and M. SCHWARZ, Austria, got my Apoidea.

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