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**The H.R. DEBAUCHE collection of *Anagrus*
(Hymenoptera: Mymaridae): an annotated catalog**

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Abstract

The H.R. DEBAUCHE collection of the mymarid wasp genus Anagrus HALIDAY, 1833, stored at the Royal Belgian Museum of Natural Sciences in Brussels, is catalogued based on its recent critical examination. Taxonomic notes are provided on the species included; the following are new records for the fauna of Belgium: A. avalae SOYKA, 1955, A. breviphragma SOYKA, 1955, A. brocheri SCHULZ, 1910, A. nigriceps (SMITS VAN BURGST, 1914), and A. ustulatus HALIDAY, 1833. Anagrus albiscapus WALKER, 1846, A. atricapillus WALKER, 1846, and A. concinnus WALKER, 1846 are indicated as nomina nuda.

Key words: Mymaridae, *Anagrus*, H.R. DEBAUCHE.

Introduction

The National Belgian Collections of Insects and Arachnids at the Royal Belgian Museum of Natural Sciences [IRSNB] in Brussels hold one of the most important collections of the Mymaridae in the world. This collection was assembled mainly by H.R. DEBAUCHE who was one of the most, if not the foremost, prominent European worker on this family in this century. DEBAUCHE, who was a professor of Entomology at the Catholic University of Louvain, collected mymarids mainly during 1941-1959. After his death, the collection was transferred in its entirety from Louvain to the present depository.

DEBAUCHE's work on the Mymaridae culminated with the publication of his fundamental monograph on the Belgian fauna (DEBAUCHE, 1948). The majority of specimens were collected in Belgium and adjacent countries by DEBAUCHE himself, although very few have the country or collector's name indicated on the microscopic slides. Under "Material examined", I indicate the

collector's name of such specimens as "H.D." in brackets (= Hubert DEBAUCHE).

While most of the European mymarids were correctly sorted by DEBAUCHE to genera and species, he apparently struggled to identify the material collected by him and others in central Africa. Some of the specimens that DEBAUCHE collected in Belgian Congo in 1951 were later studied by Guy MATHOT, who described a number of new mymarid genera and species (MATHOT, 1966, 1968).

During June 1997, I had a privilege to visit Brussels to study the DEBAUCHE collection of the genus *Anagrus* HALIDAY, 1833. Although my main task was to locate the type series of *Anagrus funebris* MATHOT, 1968, which was believed to be lost, I had an opportunity to examine all the specimens that belong to this genus and reidentify most of them. These specimens are catalogued below with the exception of unassociated males and a few poorly mounted unidentified females (on 45 slides).

DEBAUCHE (1948) recognized only three species of *Anagrus* from Belgium, i.e., *A. atomus* (L., 1767), *A. ensifer* DEBAUCHE, 1948, and *A. incarnatus* HALIDAY, 1833. He split the latter species to two forms, *A. incarnatus incarnatus* HALIDAY, 1833, and *A. incarnatus subfuscus* FÖRSTER, 1847. In scope of recent developments in the systematics of *Anagrus* (CHIAPPINI, 1989; CHIAPPINI *et al.*, 1996), one could expect that more than three species of *Anagrus* may occur in Belgium. Indeed, that was the case as I found five new species records for the Belgian fauna among the specimens in the DEBAUCHE collection. It is interesting that in his monograph, DEBAUCHE (1948) only treated specimens that were collected during 1941 and 1942, whereas his collection contains numerous specimens captured after that period.

In the below list, all geographical names which do not have English equivalents are given in the French spelling, and the nearby locations which appear on standard maps are indicated if necessary when small villages or forests are first mentioned in the text.

Genus *Anagrus* HALIDAY, 1833

CHIAPPINI (1989) revised the European species and CHIAPPINI *et al.* (1996) provided a key to the Holarctic species of *Anagrus* and diagnosed the genus and its subgeneric groups.

List of species in the IRSNB collection

Anagrus atomus (LINNAEUS, 1767)

Ichneumon atomus LINNAEUS, 1767: 941.
Anagrus atomus (LINN.); HALIDAY, 1833: 347.
Anagrus atomus (LINN.); DEBAUCHE, 1948: 137-139, pls. XIII, XIV.
Anagrus atomus (L.); CHIAPPINI, 1987: 73-90 (redescription).
Anagrus (Anagrus) atomus (LINNAEUS); CHIAPPINI, 1989: 102-104 (*atomus* species-group).

Material examined: AUSTRIA. Tirol, Krössbach, 2.X.1949, W. SOYKA - 1♀ (paratype of *Anagrus kressbachi* SOYKA). BELGIUM. Dave (nr. Namur), 25.VII.1942, [H.D.] - 1♀. Forêt de Loverval (nr. Charleroi and Couillet): 10.VIII.1941, [H.D.] - 1♀, 2♂♂; 14.VIII.1941, [H.D.] - 3♀♀, 2♂♂; 16.VI.1942, [H.D.] - 1♂. Forêt de Meerdael (nr. Louvain), 14.X.1959, [H.D.] - 3♀♀, 4♂♂. Fosses (nr. Charleroi), 25.X.1959, [H.D.] - 2♀♀. Héverlé (nr. Louvain, also known as Eegenhoven): 1.VI.1941, [H.D.] - 1♀; 4.IX.1941, [H.D.] - 3♂♂; 19.IX.1941, [H.D.] - 6♂♂; 1.X.1941, [H.D.] - 2♂♂; 18.V.1942, [H.D.] - 1♂; 9.VI.1942, [H.D.] - 1♀, 1♂; 30.VII.1942, [H.D.] - 1♀; 9.X.1942, [H.D.] - 1♂; 26.X.1942, [H.D.] - 1♀; 28.VIII.1943, [H.D.] - 3♀♀, 1♂; 14.X.1944, [H.D.] - 6♂♂. Tervuren (nr. Brussels): 14.VII.1944, [H.D.] - 1♀; 7.VIII.1945, [H.D.] - 1♀; 18.VIII.1945, [H.D.] - 1♀. Vossem (nr. Brussels and Louvain), 18.V.1941, [H.D.] - 1♂. FRANCE. Côte d'Or, IX.1949, J. GHESQUIÈRE - 1♀. Menton, VII.1949, J. GHESQUIÈRE - 1♀, 2♂♂. GERMANY. Mecklenburg, Malchin, VIII.1935, H. STAMMER - 1♀ (misidentified by W. SOYKA as *Anagrus ustulatus* HALIDAY). SWITZERLAND. Uri, Urner Boden, el. 1650 m, 25.VIII.1948, [H.D.] - 1♀, 1♂. Unknown country: Eyzer, 8.VIII.1944, [H.D.] - 1♀.

Comments: CHIAPPINI (1989) provided the diagnosis and a long list of synonyms of *A. atomus* in Europe, where it is very common.

Anagrus avalae SOYKA, 1955

Anagrus avalae SOYKA, 1955: 24.

Anagrus (Anagrus) avalae SOYKA; CHIAPPINI, 1989: 108 (*incarnatus* species-group).

Material examined: BELGIUM. Brussels, 28.VIII.1947, R. DELVIGNE - 1♀. Héverlé, 18.V.1942, [H.D.] - 1♂. Turnhout, 12.VIII.1941, A. RAIGNIER - 1♂.

Comments: This is a new record for Belgium. Both specimens of this species were misidentified by H.R. DEBAUCHE. CHIAPPINI (1989) provided the diagnosis of *A. avalae*.

Anagrus breviphragma SOYKA, 1955

Anagrus breviphragma SOYKA, 1955: 25.

Anagrus (Anagrus) breviphragma SOYKA; CHIAPPINI, 1989: 105-106 (*incarnatus* species-group).

Material examined: AUSTRIA. Tirol, Krössbach, 7.VII.1945, W. SOYKA - 1♀ (paratype of *Anagrus longigaster* SOYKA). BELGIUM. Forêt de Loverval, 16.VI.1942, [H.D.] - 1♀.

Comments: CHIAPPINI (1989) provided the diagnosis and a list of synonyms of *A. breviphragma*, which for the first time is recorded from Belgium. This species now is also known from South America (TRIAPITSYN, 1997).

Anagrus brocheri SCHULZ, 1910

Anagrus brocheri SCHULZ, 1910: 192-193.

Anagrus (Anagrus) brocheri SCHULZ; CHIAPPINI, 1989: 110-111 (*incarnatus* species-group).

Material examined: BELGIUM. Héverlé: 26.X.1942, [H.D.] - 2♀♀; IX.1959, [H.D.] - 1♀; 12.X.1959, [H.D.] - 1♀. Forêt de Meerdael, 14.X.1959, [H.D.] - 1♀.

Comments: CHIAPPINI (1989) provided the diagnosis and a list of synonyms of *A. brocheri*, which has not been known before from Belgium.

Anagrus ensifer DEBAUCHE, 1948

Anagrus ensifer DEBAUCHE, 1948: 136-137, pls. XIII, XIV.

Anagrus (Anagrus) ensifer DEBAUCHE; CHIAPPINI, 1989: 106 (*incarnatus* species-group).

Material examined: BELGIUM. Vossem, 18.V.41, [H.D.] - 1♀ (holotype). GERMANY. Schwarzwald, Réserve de Schliffkopf, el. 1100 m, 27.VIII.1959, [H.D.] - 1♀.

Comments: Both specimens from Belgium were earlier examined by CHIAPPINI (1989). I have examined also two females from the Natural History Museum (London, England), which represent voucher specimens of the unpublished thesis by ABDUL-BAKI (1979). These are labeled as "Baki Ali, 14.VI.1976, Ac" and "11.IX.1977, Ac3", and probably were collected in Cardiff, Wales.

Anagrus frequens PERKINS, 1905

Anagrus frequens PERKINS, 1905: 198.

Anagrus (Anagrus) frequens PERKINS; CHIAPPINI *et al.*, 1996: 571-572 (*atomus* species-group).

Material examined: CONGO (Zaire). Yangambi, Rive du Congo, 17.VIII.1951, [H.D.] - 2♀♀. Yaosuka, nr. Rivière Isalowe, 16.VIII.1951, [H.D.] - 1♀.

Comments: The record of this species from Congo (Zaire) is a new record for that country and central Africa. *A. frequens* was redescribed by CHIAPPINI *et al.* (1996).

Anagrus funebris MATHOT, 1968

Anagrus funebris MATHOT, 1968: 270-271.

Material examined: Holotype ♀, labeled: "Université de Louvain LAB. ENTOMOLOGIE Yangambi Yaosuka Riv. Isalowe 16.VIII.1951". Paratypes: same data, 5♀♀.

Comments: I had a great deal of difficulty in locating the type series of *A. funebris*. Six unmarked slides with six specimens that fit the original description of this species were found among many unsorted mymarids collected by DEBAUCHE from Belgian Congo. I was able to match one specimen with the photograph of the holotype of *A. funebris* (MATHOT, 1968) and labeled it as such; the other five specimens were labeled as paratypes. All the specimens are in a rather poor condition, mounted laterally. This species, which most probably belongs to the subgenus *Anagrella* BAKKENDORF, 1962, will be

redescribed in a forthcoming publication together with the descriptions of other related central African species.

Anagrus incarnatus HALIDAY, 1833

Anagrus incarnatus HALIDAY, 1833: 347.

Anagrus incarnatus incarnatus HALIDAY; DEBAUCHE, 1948: 132-135, pls. XIII, XIV.

Anagrus incarnatus incarnatus HALIDAY; MATHOT, 1969: 2 (♀, Belgium).

Anagrus (Anagrus) incarnatus HALIDAY; CHIAPPINI, 1989: 122-113 (*incarnatus* species-group).

Anagrus (Anagrus) incarnatus HALIDAY; TRIAPITSYN, 1997: 7-8 (synonymy).

Material examined: BELGIUM. Assesse (nr. Namur), 9.VII.1967, P. DESSART - 1♂ (det. A. DONEV). Brussels: 22.VIII.1947, J. GHESQUIÈRE - 1♀; 25.VIII.1947, J. GHESQUIÈRE - 2♀♀; 25.VIII.1947, R. DELVIGNE - 1♀; 28.VIII.1947, R. DELVIGNE - 1♀. Dave, 25.VII.1942, [H.D.] - 1♀. Forêt de Loverval: 10.VIII.1941, [H.D.] - 1♀, 2♂♂; 14.VIII.1941, [H.D.] - 1♀, 2♂♂; 20.IV.1942, [H.D.] - 1♀; 16.VI.1942, [H.D.] - 3♀♀. Forêt de Meerdael, 14.X.1959, [H.D.] - 8♀♀, 9♂♂. Héverlé: 28.VI.1941, [H.D.] - 1♀; 4.IX.1941, [H.D.] - 2♀♀; 19.IX.1941, [H.D.] - 4♀♀, 2♂♂; 26.X.1942, [H.D.] - 1♀. Kampenhout (nr. Vilvoorde), 5.IX.1941, [H.D.] - 1♀, 3♂♂. Kessel-Lo (nr. Louvain), 27.VIII.1945, [H.D.] - 2♀♀. Tervuren: 20.VI.1942, [H.D.] - 2♀♀; 4.VII.1945, [H.D.] - 1♀, 4♂♂; 14.VII.1945, [H.D.] - 1♀; 7.VIII.1945, [H.D.] - 1♀, 1♂; 11.VIII.1962, P. DESSART - 1♀, 1♂. Turnhout, 31.VII.1942, A. REIGNIER - 1♀. Watermael (nr. Brussels): 31.VIII.1947, N. LELEUP - 4♀♀; 5.IX.1947, N. LELEUP - 1♀. GERMANY. Schwarzwald, Réserve de Schliffkopf, el. 1055 m, 28.VIII.1959, [H.D.] - 1♀, 1♂. NETHERLAND. Limburg, Valkenburg, 7.X.1931, W. SOYKA - 1♀. SWITZERLAND. Uri, Urner Boden, el. 1650 m, 25.VIII.1948, [H.D.] - 1♀.

Comments: This species had been for a long time a "dumping ground" for all the forms of *Anagrus* that did not fit any of the described species until CHIAPPINI (1989) defined it. TRIAPITSYN (1997) synonymized *A. incarnatosimilis* SOYKA, 1955, with *A. incarnatus*.

Anagrus nigriceps (SMITS VAN BURGST, 1914)

Litus nigriceps SMITS VAN BURGST, 1914: 125-127.

Anagrus nigriceps (SMITS VAN BURGST); GRAHAM, 1982: 200-201.

Anagrus (Anagrus) nigriceps (SMITS VAN BURGST); CHIAPPINI *et al.*, 1996: 586-587 (*incarnatus* species-group).

Material examined: BELGIUM. Forêt de Loverval: 10.VIII.1941, [H.D.] - 1♀; 16.VI.1942, [H.D.] - 1♀. Héverlé, 19.IX.1941, [H.D.] - 1♀. Tervuren: 16.V.1945, [H.D.] - 1♀; 7.VIII.1945, [H.D.] - 1♀; 18.VIII.1945, [H.D.] - 2♀♀. Turnhout, 1942, A. RAIGNIER - 1♀. Watermael, 5.IX.1947, N. LELEUP - 1♀.

Comments: DEBAUCHE misidentified this species as *A. incarnatus incarnatus*. Belgium is a new, but not at all surprising, country record for *A. nigriceps*.

as it was described from the neighboring Netherland. Some of the SOYKA's species probably belong here, but having freshly collected material of *Anagrus* from central Europe is desirable before any synonymy is proposed.

***Anagrus subfuscus* FOERSTER, 1847 sensu DEBAUCHE, 1948**

Anagrus subfuscus FOERSTER, 1847: 214-215.

Anagrus incarnatus subfuscus FÖRSTER; DEBAUCHE, 1948: 133, 135, pls. XIII, XIV.

Anagrus incarnatus subfuscus FÖRSTER; MATHOT, 1969: 2 (♂, Belgium).

Anagrus (Anagrus) subfuscus FOERSTER sensu DEBAUCHE; CHIAPPINI, 1989: 108-109 (*incarnatus* species-group).

Material examined: BELGIUM. Forêt de Meerdael, 6.V.1941, [H.D.] - 1♂. Héverlé: 19.IX.1941, [H.D.] - 1♂; 20.IV.1942, [H.D.] - 1♂; 11.V.1942, [H.D.] - 1♀, 9♂♂; 18.V.1942, [H.D.] - 1♀; 9.V.1944, [H.D.] - 2♂♂; IX.1959, H. DEBAUCHE - 1♀; 12.X.1959, [H.D.] - 2♀♀. Kampenhout, 5.IX.1941, [H.D.] - 2♂♂. Tervuren, 20.IV.1945, [H.D.] - 1♂; 6.VI.1945, [H.D.] - 1♀.

Comments: DEBAUCHE (1948) reported only the specimens collected by him in 1941 and 1942. A few others are added here to his list.

***Anagrus ustulatus* HALIDAY, 1833**

Anagrus ustulatus HALIDAY, 1833: 347.

Anagrus (Anagrus) ustulatus HALIDAY; CHIAPPINI, 1989: 104 (*atomus* species-group).

Material examined: BELGIUM. Forêt de Meerdael, 6.V.1941, [H.D.] - 1♀. Tervuren, Bois des Capucins, 29.VI.1942, [H.D.] - 1♀. NETHERLAND. Limburg, Valkenburg, 7.X.1931, W. SOYKA - 1♀.

Comments: Specimens belonging to *A. ustulatus* were all misidentified by DEBAUCHE as *A. atomus*, as he considered the two species as being conspecific (DEBAUCHE, 1948). CHIAPPINI (1987) illustrated this species as *Anagrus sp.* and later (CHIAPPINI, 1989) provided its diagnosis and the list of synonyms.

Nomina nuda

The following three F. WALKER's names were not supported by descriptions (WALKER, 1846) and therefore are not valid:

1. *Anagrus albiscapus* WALKER, 1846: 51.
2. *Anagrus atricapillus* WALKER, 1846: 51. Specimens under this name exist in both the National Museum of Ireland, Dublin, and the Hope Entomological Collections, Oxford (GRAHAM, 1982). I found one specimen labeled as such in the DEBAUCHE collection: ♀, labeled: 1. "Coll. Wesmael"; 2. "*Anagrus atricapillus*" [in F. WALKER's hand]; 3. "Walker script"; "*Anagrus atricapillus* Walker".
3. *Anagrus concinnus* WALKER, 1846: 51.

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**Contribution à la connaissance des
Hyménoptères Pompilides de la Turquie
(Hymenoptera: Pompilidae)**

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Abstract

Resulting of sampling trips in Turkey from 1985 to 1997, a inventory of collected species which twenty-six are new for the Turkish fauna, and a list of flowers visited for nectar are presented.

Key words: Hymenoptera, Pompilidae, Turkey, flowers visited.

Résumé

Suite à diverses récoltes effectuées en Turquie ces dernières années: 1985, 1987, 1996 et 1997, l'auteur dresse l'inventaire des espèces capturées, dont 26 citées pour la première fois du territoire considéré, et y adjoint une liste des plantes butinées.

Introduction

Dans la cadre du projet "TU, Pollination project" financé par l'OTAN et dont le promoteur est Mr le Prof. Osman KAFTANOGLU (Université d'Adana), MM. le Professeur Pierre RASMONT et ses assistants Yvan BARBIER et Michaël TERZO (Université de Mons-Hainaut, Belgique) ont récolté le plus souvent sur des végétaux en fleurs, en 1996 et 1997, de grandes quantités d'Hyménoptères, parmi lesquels quelques dizaines de Pompilides.

Bien que peu nombreux, ces spécimens, qui m'ont été soumis pour identification, se sont révélés très intéressants puisqu'ils permettent non seulement de compléter nos données sur la faune particulièrement diversifiée de cette région mais fournissent aussi de précieuses indications sur les fleurs butinées ainsi que sur l'altitude des stations de récolte, renseignements qui figurent trop