

FIRST RECORDS AND ADDITION OF TWO SPECIES *Atylotus agricola* (WIEDEMANN) AND *Haematopota Minuscula* AUSTEN (DIPTERA: TABANIDAE) FROM SAUDI ARABIA <sup>1/R</sup>

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### ABSTRACT

From the additional records presented here, there are two records of *Atylotus agricola* (Wiedemann) and *Haematopota minuscula* Austen from Saudi Arabia lift up to 24 the taxa known in the country. A summary of the Zoogeographical check up to the 24 species is presented.

### INTRODUCTION

This article is supplementary to the previous studies on the horse-flies from Saudi Arabia: Leclercq (1982, 1986); Amoudi (1989); Amoudi and Leclercq (1988, 1992). The record of *Atylotus agricola* (Wiedemann) and *Haematopota minuscula* Austen lift up to 24 the taxa known in the country. We give also new record of other species: *Tabanus arabis* Macquart, *T. sufis* Jaennicke, *T. taeniola* Palisot de Beauvois and *T. unifasciatus* Loew. All material studied belong to palaeartic fauna with exception of *T. taeniola* palisot de Beauvois which is typical representative of the afrotropical fauna. This is the first study based on larger material of this family (Tabanidae) from central and eastern regions. A summary of the zoogeographical check up is represented from the fauna.

### MATERIAL AND METHODS

A survey in Saudi Arabia on the horse-fly populations in central and eastern regions was conducted during the end of 1992 and 1993. The area covered is located between 20-24 N° latitudes and 42-52 E° longitudes.

Sampling was done by means of direct collecting from different barns and farms localities with the aid of Japanese type net and catchers. The specimens have been prepared for identification, labelled and sorted out. The general label used for all specimens collected during the trips elucidated the area where the specimens were collected, the date of collection and the name of the collectors. The area covered and the site of the collection are shown in the Fig. 1, the world wide distribution of the two species *A. agricola* and *H. minuscula* are also shown in the Fig. 2.

## LIST OF SPECIES

## TABANINAE: Tabanini:

1. *Atylotus agricola* (Wiedemann, 1828). Central region: Al-Qaseem-Unayzah, ♀, 19/6/1993.
2. *Tabanus arabicus* Macquart, 1839. Eastern region: Al-Ahsa, ♀, 8/5/1993.
3. *Tabanus sufis* Jaennické, 1867. Central region: Riyadh-Diriyah, 5 ♀, 25/4/1993; Al-Qaseem-Arras, 2 ♀, 11/6/1993 Al-Qaseem-Buraydah, ♀, 19/6/1993.  
Eastern region: Al-Ahsa, 4 ♀, 8/5/1993; Al-Ahsa-Qatif, 3 ♀, 25/5/1993.
4. *Tabanus taeniola* Palisot de Beauvois, 1817. Eastern region: Al-Ahsa, ♀ + 2 ♀, 8/5/1993.
5. *Tabanus unifasciatus* Loew, 1858. Central region: Al-Qaseem, ♀, 11/6/1993; Al-Qaseem-Arras, 4 ♀, 11/6/1993; Al-Qaseem-Buraydah, 5 ♀, 19/6/1993; Al-Qaseem Unayzah, 8 ♀, 21/6/1993.  
Eastern region: Al-Ahsa-Qatif, ♀, 25/5/1993.

## TABANINAE: Haematopotini:

6. *Haematopota minuscula* Austen, 1920. Eastern region: Qatif-Tarut, ♀, 3/12/1992.  
Distribution: North Africa: Egypt; Middle East: Iran, Palestine, Israel and Saudi Arabia.

## Zoogeographical Checkup of the Fauna

## AFROTROPICAL: 12 species:

1. *Philoliche (Dorcaloemus) auricoma* (Austen, 1911).
2. *Philoliche (Philoliche) magrettii* (Bezzi, 1901).
3. *Ancala latipes* (Macquart, 1838).
4. *Atylotus agrestis* (Wiedemann, 1826).
5. *Tabanus biguttatus* (Wiedemann, 1830).
6. *Tabanus camelarius* (Austen, 1911).
7. *Tabanus leucostomus* (Lowe, 1858).
8. *Tabanus mordax* (Austen, 1911).

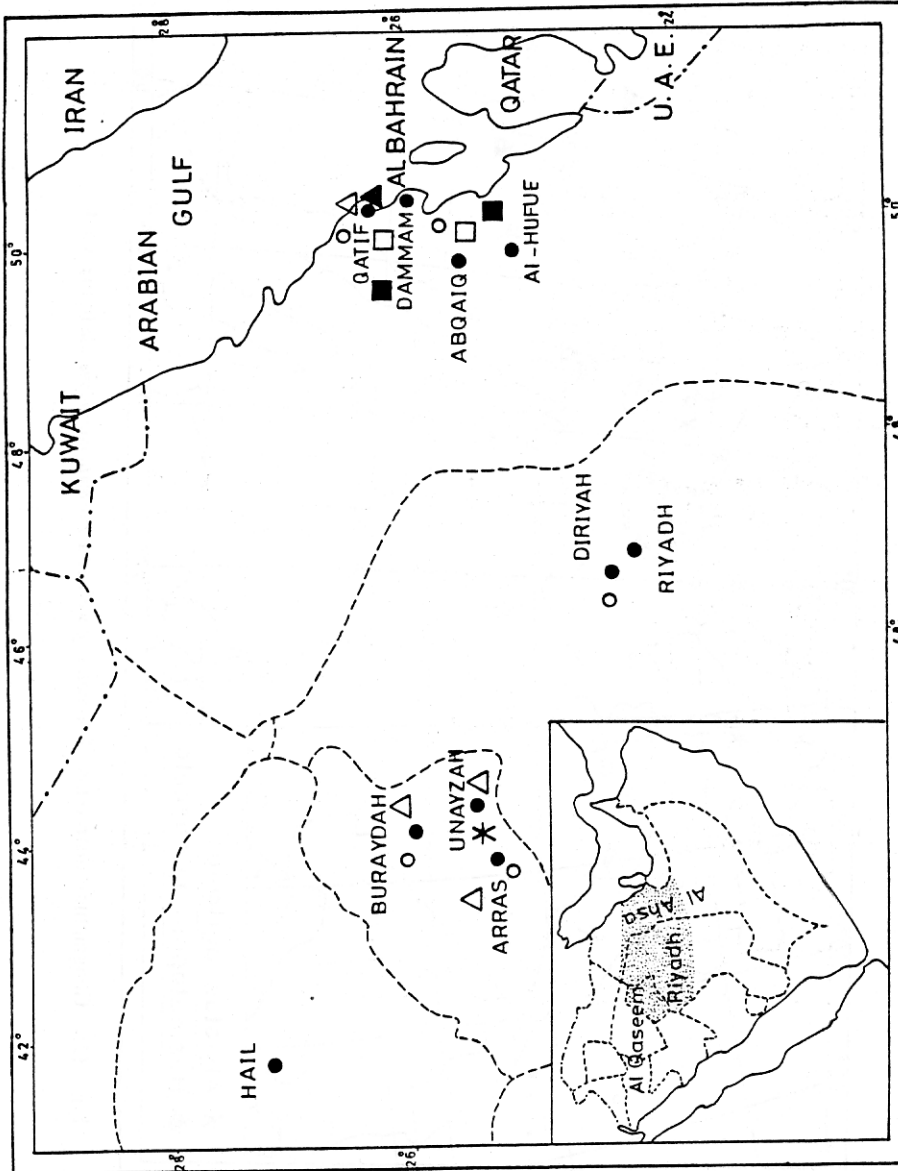


Fig. (1): Distribution of *Hyalomma agricola* (\*), *Tafianus arabicus* (□), *T. taenilia* (○), *T. unificiatus* (△), and *Haematopota minuscula* (▲) in Central and Eastern regions of Saudi Arabia.

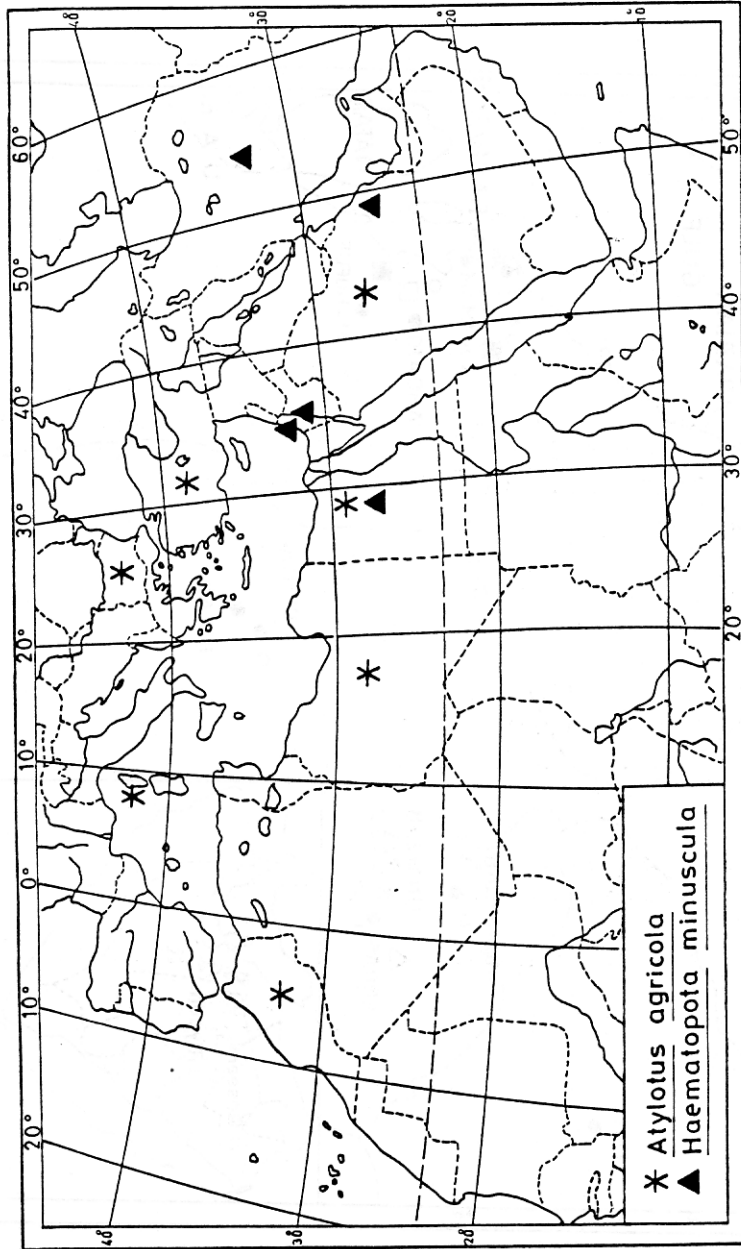


Fig. (2): Geographical distribution of *Atylotus agricola* and *Haematopota minuscula* in the world.

9. *Tabanus sufis* (Jaennické, 1867).
10. *Tabanus taenila* Palisot de (Beauvois, 1806).
11. *Haematopota abyssinica* (Surcouf, 1908).
12. *Haematopota coronata* (Austen, 1909).

**PALEARCTIC: 10 species:**

**Mediterranean: 8 species:**

1. *Atylotus agricola* (Wiedemann, 1828).
2. *Atylotus farinosus* (Szilady, 1915).
3. *Tabanus albifacies* (Loew, 1856).
4. *Tabanus arabicus* (Macquart, 1839).
5. *Tabanus fumidus* (Austen, 1923).
6. *Tabanus leleari turkestanicus* (Olsufjev, 1970).
7. *Tabanus sabuletorum* (Loew, 1874).
8. *Haematopota minuscula* (Austen, 1920).

**European: 2 species:**

9. *Tabanus cordiger* (Meigen, 1820).
10. *Tabanus unifasciatus* (Loew, 1858).

**SAUDI ARABIA only: 2 species:**

1. *Atylotus pallescens* (Walker, 1871).
2. *Tabanus riyadhiae* (Amoudi & Leclercq, 1988).

The present knowledge of the horse-flies from Saudi Arabia is 24 species represented by: 2 PANGONINAE of the tribe Philolichini, 22 TABANINAE with 19 of the tribe Tabanini and only 3 of the tribe Haematopotini.

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تسجيل واضافة نوعين من ذباب الخيل هما اتيلوتس اجريكولا *Atylotus agricola* (Wiedemann) وهيماتوبوتا مينوسكيولا *Haematopota minuscula* Austen من

فصيلة Tabanidae التابعة لرتبة ثنائية الجناح Diptera  
لأول مره فى المملكة العربية السعودية

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يعالج البحث ستة أنواع من ذباب الخيل التابع لفصيلة تابانيدى Tabanidae لرتبة ثنائية الجناح Diptera وجدت فى المملكة العربية السعودية منها نوعين هما اتيلوتس اجريكولا *Atylotus agricola* (Wiedemann) وهيماتوبوتا مينوسكيولا *Haematopota minuscula* Austen وذلك لأول مرة بالمملكة العربية السعودية، كما تم تسجيل أربعة أنواع أخرى من هذه الفصيلة هم تابانيس ارابيكا *Tabanus arabicus* Macquart تابانيس ارابيكا *T. sufis* Jaennicke و تابانيس تينيولا *T. taeniola* palisot de'Beauvois و تابانيس سوفيس *T. taeniola* palisot de'Beauvois و تابانيس تينيولا *T. unifasciatus* Loew لأول مره فى المنطقة الوسطى والمنطقة الشرقية وجميع هذه الانواع من الانماط الاوربية الآسيويه وحوض البحر الأبيض المتوسط باستثناء النوع *T. taeniola* الذى ينتمى الى الانماط الافريقية الاستوائية. كما يذكر البحث الاماكن والتواريخ التى جمعت فيها هذه العينات فى عامى ١٩٩٢، ١٩٩٣م والموجودة فى متحف كلية العلوم بجامعة الملك سعود. كما زود البحث بخريطين توضحان الانتشار الجغرافى الحيوانى لهذه الأنواع فى المملكة والعالم. ويحتوي البحث أيضاً على قائمة بأسماء جميع أنواع الفصيلة الموجودة فى المملكة العربية السعودية.