

RESEARCH ARTICLE

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## New records of *Afrohercostomus* Grichanov (Diptera, Dolichopodidae) from Tropical Africa

I.Ya. Grichanov

All-Russian Institute of Plant Protection, Podbelskogo 3, St. Petersburg, Pushkin, 196608 Russia

E-mail: [grichanov@mail.ru](mailto:grichanov@mail.ru)

A new material for the genus *Afrohercostomus* Grichanov, 2010 was recently collected and/or identified. The present research gives new records, including *A. eronis* (Curran, 1926) found for the first time in Cameroon and Ethiopia, *A. golubtsovi* (Grichanov, 1999) in Burundi, *A. ultimis* (Parent, 1935) in Uganda, and *A. jani* (Dyde, 1957) in Kenya. First colour photographs are provided for *A. eronis* and *A. jani*.

**Key words:** Afrotropical, Diptera, Dolichopodidae, Dolichopodinae, Dolichopodini, new records.

### Introduction

The species of the genus *Afrohercostomus* were separated from the *Hercostomus* Loew, 1857 by Grichanov (2010), who provided a key for the Afrotropical species of *Afrohercostomus*. Later new records and new illustrations for some species have been published (Grichanov, 2011; Grichanov et al., 2011a, b; Grichanov & Brooks, 2017). The genus consists of 14 described and named species, which are all Afrotropical [see Grichanov (2018) for a catalogue of included species], known from Angola, Botswana, Burundi, Cameroon, Democratic Republic of the Congo, Ethiopia, Kenya, Lesotho, Madagascar (?), Malawi, Namibia, Rwanda, South Africa, Tanzania, Uganda and Zimbabwe (Fig. 1). *A. argyropus* (Loew, 1858) with two parapatric subspecies has the widest distribution in the region. *A. a. argyropus* is a southern African subspecies, whereas *A. a. par* (Parent, 1934) is mainly an equatorial subspecies. In this paper I provide new records for known species of the genus and first colour pictures for *A. eronis* (Curran, 1926) and *A. jani* (Dyde, 1957).

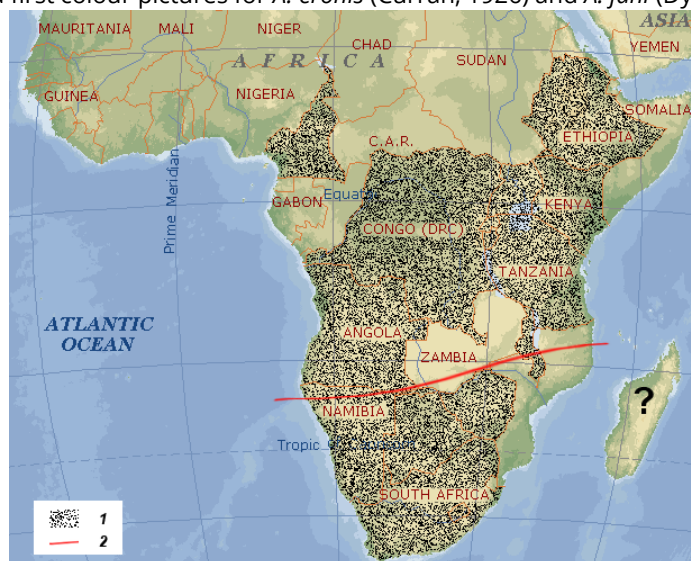


Fig. 1. Known distribution of *Afrohercostomus* species in African countries (1) and conditional border between areas of *A. argyropus* subspecies (2), *A. a. argyropus* and *A. a. par*.

## Material and methods

Material cited in this work is housed at the National Museum, Bloemfontein, South Africa (BMSA), Bielefeld University, Bielefeld, Northrhine-Westphalia, Germany (BU) and the Zoological Museum of Moscow State University, Moscow, Russia (ZMUM).

The specimens were studied and illustrated with ZEISS Discovery V-12 stereomicroscope and AxioCam MRc5 camera.

## Results

### *Afrohercostomus argyropus argyropus* (Loew, 1858)

Material. **South Africa**: 2♂, 4♀, RSA: Free State, Harrismith, Scotland Farm at: 27°58'59.5"S, 29°37'09.8"E, 26-29 ii 2012, A.H. Kirk-Spriggs, Malaise trap, dense *Leucosidea* dominated scrub; 1♂, 1♀, RSA: Eastern Cape, Hogsback, Never Daunted at: 32°35.725' S, 26°55.873' E, 28-29 iii 2011, A.H. Kirk-Spriggs, Malaise trap, indigenous Afromontane forest (BMSA); 1♀, **Namibia**: Katima Mulilo Distr., Kalizo Lodge area at: 17°32.806' S, 24°33.829' E, 14-17 xi 2012, 941 m, A.H. Kirk-Spriggs, Malaise trap, open savanna floodplain (BMSA).

Distribution. Type locality: "South Africa". Botswana, Lesotho, Malawi, Namibia, South Africa, Zimbabwe.

### *Afrohercostomus argyropus par* (Parent, 1934)

Material. 1♂, 1♀, **Kenya**: Kikuyu Env., Ondiri Wetland 2011 m, 0.253417°S, 36.6641°E, 16 xi 2012, D. Gavryushin (ZMUM); 4♂, Kenya: Laikipia Co., Thoomson Falls, 2350 m, 0.05°S, 36.38°E, 29-30 xii 2013, N. Vikhrev (ZMUM).

Distribution. Type locality: Kenya: Nairobi. Angola, Botswana, Burundi, DR Congo, Kenya, Malawi, Namibia, Rwanda, Tanzania, Uganda.

### *Afrohercostomus caprivi* (Grichanov, 2004)

Material. 258♂♀, **Namibia**: Katima Mulilo Distr., Mavunje campsite at: 17°55.141' S, 23°19.073' E, 22-26 xi 2012, 945 m, A.H. Kirk-Spriggs, Malaise trap, Kwando River floodplain (BMSA);

Distribution. Type locality: Namibia: West Caprivi Park, Kwando River, Susuwe. The species is known only from the type locality.

### *Afrohercostomus eronis* (Curran, 1926)

(Fig. 2)

Material. 158♂♀, **Cameroon**: Far-North Reg., Mayo-Tsango, Mogode-Cha, 10°34.111' N, 13°36.422' E, 8-10 viii 2013, 1001 m, A.H. Kirk-Spriggs, Malaise trap, degraded savannah forest; North Reg., Vina, Chabal village at (1) 7°36.803' N, 13°32.622' E, 12 viii 2013, 1270 m, A.H. Kirk-Spriggs, sweeping in deep shade (BMSA); 2♂, **Ethiopia**: Amhara, Tana Lake env., 1800 m, 11.54°N, 37.39°E, 2-4 viii 2012, N. Vikhrev (ZMUM); 2♂, **Tanzania**: Mbeya Range, 2300 m, 8.85°S, 33.50°E, 17-18 ii 2017, N. Vikhrev (ZMUM).

Distribution. Type locality: South Africa: Oudebosch, Caledon. Burundi, ?Madagascar, South Africa, Tanzania. A new species for Cameroon and Ethiopia.

### *Afrohercostomus golubtsovi* (Grichanov, 1999)

Material. 112♂♀, **Burundi**: Kayanza Prov., Parc National de la Kibira, Rwegura Sector, 02°55.320' S, 29°30.067' E, 21-26 xi 2010, 2237 m, A.H. Kirk-Spriggs, Malaise trap, indigenous Afromontane forest (BMSA).

Distribution. Type locality: Uganda: Kigezi, Mt. Sabinio. The species was known only from the type locality. A new species for Burundi.

### *Afrohercostomus jani* (Dyde, 1957)

(Fig. 3)

Material. 1♂, **Kenya**: Kiambu Co., 2600 m, 0.932°S, 36.616°E, 18 xii 2013, N. Vikhrev (ZMUM).

Distribution. Type locality: Tanzania: Mufindi near Kibau, 8°35'S, 35°18'E. Cameroon, DR Congo, Malawi, Tanzania. A new species for Kenya.

### *Afrohercostomus ultimus* (Parent, 1935)

Material. 1♀, **Uganda**: Fort-Portal, 31 viii 1965, D. Panfilov (ZMUM); 9♂♀, **Kenya**: Kakamega Forest, 0°22'S, 34°50'E, 1500 m, mid-Sept.-mid-Oct. 2001, MT, Bergsdorf & Kraemer; 1♀, Kenya: Kakamega Forest, 0°22'S, 34°50'E, 1500 m, 12 vi 2000, farbschalen gelb, M. Kraemer & G. Velten; 3♂♀, Kenya: Kakamega Forest, 0°22'S, 34°50'E, 1500 m, 20 vi 2000, farbschalen gelb, M. Kraemer & G. Velten; 2♀, Kenya: Kakamega Forest, 0°22'S, 34°50'E, 1500 m, 20 vi 2000, white pantrap, M. Kraemer & G. Velten; 4♂♀, Kenya: Kakamega Forest, 0°22'S, 34°50'E, 1500 m, 19 vi 2000, white pantrap, Kraemer & Velten; 2♂♀, Kenya: Kakamega Forest, 0°22'S, 34°50'E, 1500 m, 19 vi 2000, yellow pantrap, Kraemer & Velten (BU).

Distribution. Type locality: DR Congo, N. Kivu, Kibati. The species was known from DR Congo and Kenya. A new species for Uganda.



Fig. 2. *Afrohercostomus eronis* (Curran, 1926), male habitus.



Fig. 3. *Afrohercostomus jani* (Dyde, 1957), male habitus.

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