

## Redescription of *Clubiona dubia* O. Pickard-Cambridge, 1869 (Aranei Clubionidae) from Saint Helena Island

## Переописание *Clubiona dubia* O. Pickard-Cambridge, 1869 (Aranei Clubionidae) с острова Святой Елены

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КЛЮЧЕВЫЕ СЛОВА: пауки-мешкопяды, *Clubiona*, переописание, остров Святой Елены.

ABSTRACT: *Clubiona dubia* O. Pickard-Cambridge, 1869, is redescribed from material already revised by Benoit [1977]. The genus *Bucliona* Benoit, 1977, is downgraded to subgeneric level. A new synonymy is established: *Bicluona* Michailov, 1994 = *Bucliona*.

РЕЗЮМЕ: Вид *Clubiona dubia* O. Pickard-Cambridge, 1869 переописан по материалу, реви-зованному ранее Бенуа [Бенуа, 1977]. Статус рода *Bucliona* Бенуа, 1977 понижен до подро-дового. Установлен новый синоним: *Bicluona* Michailov, 1994 = *Bucliona*.

### Introduction

The spider genus *Clubiona* Latreille, 1804 is distributed almost worldwide (missing in South America) and it includes more than 350 species. The bulk of Holarctic *Clubiona* have recently been divided into four subgenera, *Clubiona* s.str., *Parclubiona* Lohmander, 1945, *Japoniona* Michailov, 1990, and *Bicluona* Michailov, 1994 [Mikhailov, 1995a, b]. Most of the extra-Holarctic representatives of the genus remain unrevised because of being insufficiently well described.

*Clubiona dubia* O. Pickard-Cambridge, 1869, was described from Saint Helena Island, with the types presumably lost [Benoit, 1977]. The species has been redescribed on the basis of new specimens and placed into the monotypic genus *Bucliona* Benoit, 1977.

The wider concept of the genus *Clubiona* accept- ed here allows to automatically downgrade *Bucliona* to the subgeneric status. By the structure of the genitalia, especially ♂ ones, *C. dubia* seems to be the closest to *C. jucunda* (Karsch, 1879), from East Asia. The latter species has recently been assigned to the monotypic subgenus *Bicluona* [Mikhailov, 1994].

The aim of this work is to once again describe *Clubiona dubia* with particular attention to the structure of the genitalia and morphometric charac- ters.

All measurements are given in mm. The number of specimens measured is indicated in brackets. The following abbreviations are accepted below: Cb — cymbium, d. — dorsally, F — femur, lat. — laterally, MRAC — Musée Royal de l'Afrique Centrale, Mt — metatarsus, rl. — retrolaterally, T — tarsus, Ti — tibia, v. — ventrally.

### Taxonomic part

Genus *Clubiona* Latreille, 1804

Subgenus *Bucliona* Benoit, 1977, **stat.n.**

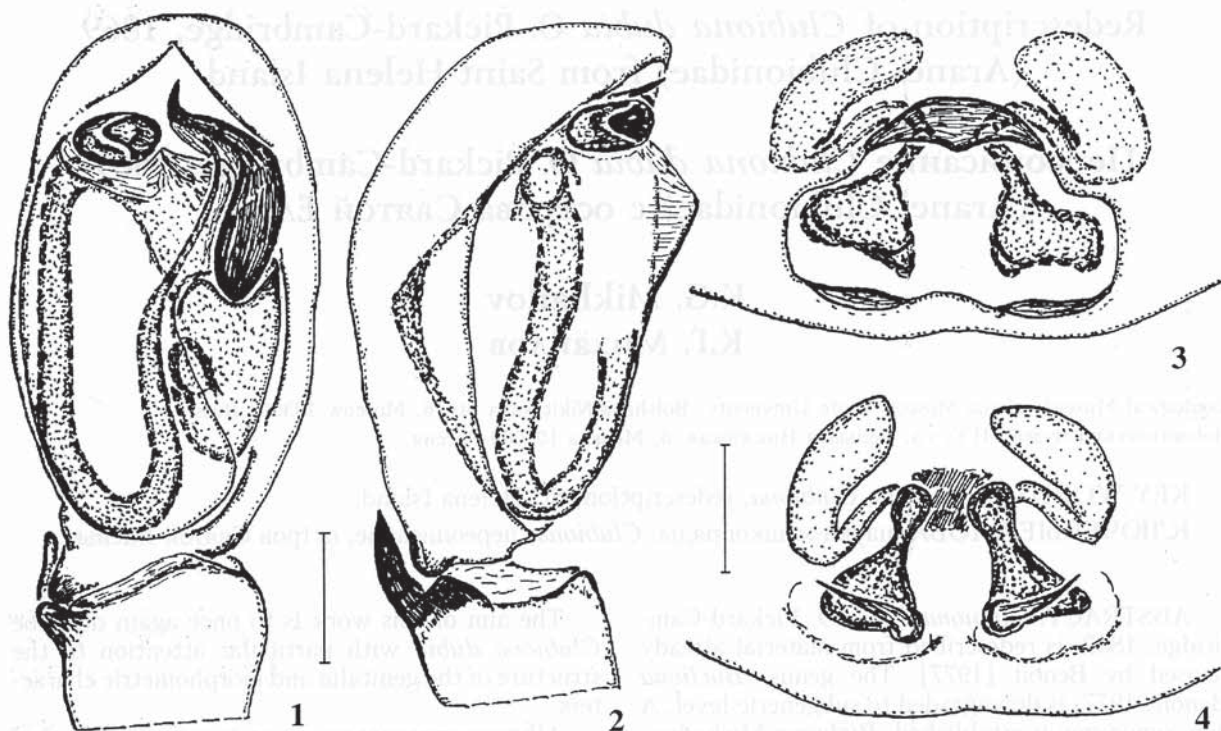
*Bicluona* Michailov, 1994, **syn.n.**

DIAGNOSIS. By the structure of the ♂ genitalia, *Bucliona* is closer to the subgenus *Japoniona*, differing by the absence of a pronounced tegular conductor and the presence of a membranous swelling below the apical tegular apophysis of a characteristic, hook-like shape. By the structure of the ♀ genitalia, the subgenus is close to *Clubiona* s.str., differing by the larger genital groove, and to *Japoniona*, being distinguished by the copulatory tubes directed more forward than inside the vulva.

REMARKS. *Bicluona* is synonymized here under *Bucliona* mainly on the basis of the ♂ genitalic charac- ters. A hook-like apical tegular apophysis separated from the main sclerotized part of the tegulum by a membranous swelling is peculiar to both *C. dubia* and *C. jucunda*. The embolus in *C. dubia* is shorter, not lying between the bulb and the cymbium, as in *C. jucunda*. A large (especially so in *C. dubia*) genital groove is characteristic of the epigynes of both species. The atrium is positioned in front of the spermatheca, being considerably larger in *C. jucunda* than in *C. dubia*.

*C. jucunda* differs also by a little less strongly developed leg armature, i.e., tibia I-II frequently supplied





Figs 1-4. *Clubiona dubia* O. Pickard-Cambridge, 1869, right male palp (1-2), female genitalia (3-4), ventrally (1), dorso-retrolaterally (2), epigyne (3), vulva (4).

Рис. 1-4. *Clubiona dubia* O. Pickard-Cambridge, 1869, правый палец самца (1-2), гениталии самки (3-4), вентрально (1), дорсо-ретролатерально (2), эпигина (3), вульва (4).

with an incomplete set of ventral spines (typically it has to be 2.2), whereas an additional apical spine is peculiar to *C. dubia*. A small *Cheiracanthium*-like swelling of the chelicerae is characteristic of the ♂ of *C. dubia*.

**DISTRIBUTION.** St. Helena Island; East Asia: Far East of Russia, Japan, Korea, China.

The close resemblance of *C. dubia* and *C. latitans* Pavesi, 1883, claimed by Benoit [1977: 71], the latter taxon from Ethiopia, requires re-examination of African material.

*Clubiona (Buclicona) dubia* O. Pickard-Cambridge, 1869

Figs 1-4.

*Buclicona dubia* — Benoit, 1977: 69-71, figs 26-27.

**MATERIAL EXAMINED** (all in MRAC). Ste. Hélène: 1 ♂ (neotype, designated by Benoit as "neotype"); 1 ♀, S.W. Thompson's Wood, 1,700-1,800 ft., 23.1.1965; 1 ♂, 2 ♀♀, 1 juv., Basse Fisher's Valley, 100 ft., 14-16.12.1965; 1 ♂, 1 ♀, 2 juv., the same place, 1,000 ft., 6.01.1966, all leg. by P. Basilewsky, P. Benoit & N. Leleup, det. by P.L.G. Benoit in 1970.

**DIAGNOSIS.** Differs from *C. jucunda* by the shorter embolus not lying between the bulb and the cymbium, as well as by the larger genital groove and subequal size of the atrium and spermatheca. The ♂ is distinguished by the small *Cheiracanthium*-like swelling of the chelicerae, so the cheliceral teeth are remote from the basis of the cheliceral claw.

**REDESCRIPTION. MALE (3).** Total length 5.25-7.75. Carapace length 2.40-3.60, width 1.70-2.70, their

ratio 1.33-1.41. Carapace and chelicerae reddish-brown or straw-coloured, legs straw-coloured. Leg measurements:

leg:		I	II	III	IV
F	♂(3)	1.88-2.60	2.60-2.75 (2)	1.50-2.08	2.13-2.80
	♀(4)	1.70-2.63	1.93-2.65	1.63-2.25	2.23-2.98
Pt	♂(3)	1.03-1.48	1.48-1.50 (2)	0.78-1.10	0.95-1.33
	♀(4)	1.10-1.55	1.13-1.55	0.90-1.18	1.05-1.50
Ti	♂(3)	1.83-2.55	2.68-2.88 (2)	1.10-1.50	1.83-2.38
	♀(4)	1.90-2.23	1.65-2.38	1.10-1.48	1.83-2.40
Mt	♂(3)	1.43-1.98	2.08-2.20 (2)	1.35-1.85	2.20-3.00
	♀(4)	1.18-1.70	1.28-1.80	1.25-1.68	2.20-2.95
T	♂(3)	0.75-1.00	1.00-1.05 (2)	0.58-0.78	0.55-0.88
	♀(4)	0.75-0.98	0.75-0.98	0.53-0.70	0.68-0.88

Leg armature: F I-II d.1.1.2, III-IV d.1.1.3, Pt III-IV rl.1, Ti I-II v.2.2.1 (2.2), III d.2.2, v.1.1.2 (1.2), IV d.2.2, v.1.1.2, Mt I-II v.2, III d.2.1.2, lat.1.2 (2.2), v.2.2, IV d.2.1.2, lat.2.2, v.2.1.2.

Palp as in Figs 1-2. Lengths of Cb, Ti, Pt, and F are 0.68-0.85, 0.43-0.63, 0.43-0.65, and 0.88-1.38, respectively.

Abdomen pale, more reddish-brown dorsally than ventrally, its length 3.00-4.20, width 1.45-2.25, their ratio 1.87-2.07.

**FEMALE (4).** Carapace length 6.50-9.50, width

2.80-4.05, their ratio 1.37-1.48. Carapace reddish-brown, chelicerae reddish-brown or chestnut coloured, legs straw-coloured. Leg measurements as in Table. Leg armature as in male, but Ti I-II v.2.2, III d.2.2, v.1.1.2 (1.1.1, 1.1), IV d.2.2, v.1.1.2 (1.1.1).

Abdomen pale or grey, its length 3.70-6.00, width 2.20-3.65, their ratio 1.64-1.86. Epigyne as in Figs. 3-4.

DISTRIBUTION. St. Helena Island.

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