

First record of *Peragrarchis syncolleta* (Meyrick, 1929) from the Cook islands (Lepidoptera: Carposinidae)

Maik BIPPUS¹ & Gerald McCORMACK²

- 1) Maik BIPPUS, 193bis CD41, 97419 La Possession, La Réunion
[e-mail: maikbippus@web.de]
- 2) Gerald McCORMACK, P.O.Box 781, Rarotonga, Cook Islands
[e-mail: gerald@nature.gov.ck]

Summary: *Peragrarchis syncolleta* (Meyrick, 1928) (Lepidoptera, Carposinidae) is recorded for the first time from Rarotonga, Cook Islands, and *P. martirea* Bippus, 2016 from La Réunion is re-identified as *P. emmilta* Diakonoff, 1989.

Keywords: Lepidoptera, Carposinidae, Cook Islands, *Peragrarchis syncolleta*

Introduction

Peragrarchis syncolleta (Meyrick, 1928) (Lepidoptera, Carposinidae) is recorded for the first time from Rarotonga, Cook Islands, and *P. martirea* Bippus, 2016 from La Réunion is re-identified as *P. emmilta* Diakonoff, 1989.

Lepidoptera – Carposinidae

Peragrarchis syncolleta (Meyrick, 1928) - Figs. 1-4

Orig.comb. *Meridarchis syncolleta* Meyrick, 1928

Distribution: Andaman Islands (TL), Japan, recorded as new for the Cook Islands. This species was described from Port Blair, Andaman Islands (India) and it has also been recorded and illustrated from Japan (Diakonoff, 1989; Figs. 19A, D, 23D-E, 36AD).

Two specimens (wingspan: 18 mm, ♀, ♂) of this species were collected in Karekare, Rarotonga, Cook Islands in March 2021 by G. McCormack. Both specimens were dissected (genitalia preparation CI-001 & CI-002) and they are identical to *Peragrarchis syncolleta* (Meyrick, 1928). The corrugated ampulla in the male genitalia is characteristic for this species (Fig.03 – inner circle).

Peragrarchis emmilta Diakonoff, 1989 (TL: Province Kwangtung, China) – Figs. 5–6

Syn.nov. *Peragrarchis martirea* Bippus, 2016 (TL: La Réunion)

Distribution: China & La Réunion.

Wingspan: 16 mm

In the same publication (Diakonoff, 1989) *Peragrarchis emmilta* is also illustrated by the adult & ♂ genitalia (figs. 23C, 35E). This species is the senior synonym of *Peragrarchis martirea* Bippus, 2016 described from La Réunion. The genitalia are identical. The large, dentate process in the juxta is characteristic for this species (Fig.06, inner circle).

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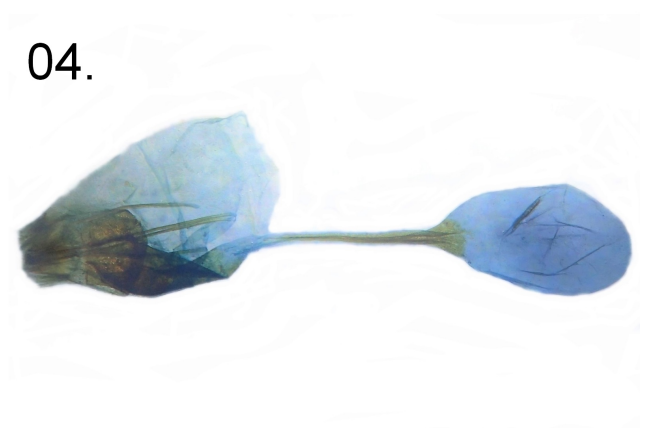
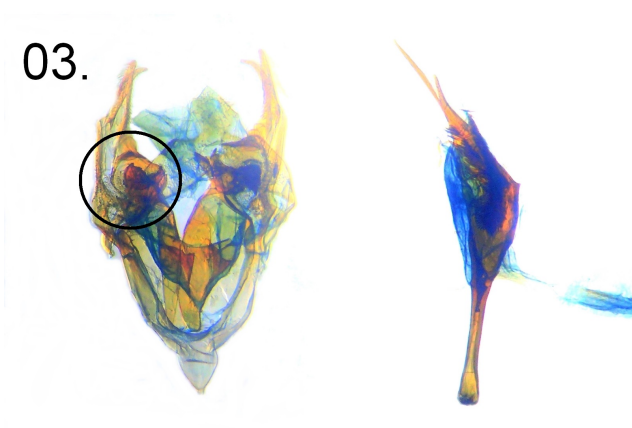


Plate 1:

Fig.01: *Peragrarchis syncolleta* (Meyrick) Cook Islands

Fig.03: *Peragrarchis syncolleta*, genitalia, CI-002
inner circle: corrugated ampulla

Fig.02: *Peragrarchis syncolleta* (Meyrick) in situ

Fig.04: *Peragrarchis syncolleta*, genitalia, CI-001



Fig. 05: *Peragrarchis emmilta* Diakonoff, Réunion
(holotype of *Peragrarchis martirea* syn.nov.)

Fig.06: *Peragrarchis emmilta*, genitalia
inner circle: large, dented process of the juxta