



Confirmation of the presence of *Statilia maculata* (Thunberg) (Mantodea, Mantidae) in Taiwan, with notes on its morphology

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Statilia maculata (Thunberg, 1784) is a mantis species having a medium-sized and slender body. Its general body coloration ranges from light to dark brown or green. It is widely distributed in the Oriental and eastern Palaearctic regions (Wang, 1993; Ehrmann, 2002; Nakamine, 2016; Patel & Singh, 2016). Taiwan is also included in the distributional range of *S. maculata* (Wang, 1993); however, Nakamine (2016) doubts its presence in Taiwan and contends that this species might have been confused with *S. nemoralis* (Saussure, 1870), which is also recorded from Taiwan and is very similar in general morphology to *S. maculata*. The two species are distinguished from each other by the pattern of black markings on the interolateral surface of the apical half of the profemur (profemoral black markings) and by the shape of the male genitalia (Okada, 2001; Nakamine, 2016). In *S. maculata*, profemoral black markings appear only along the base of the anteroventral femoral spines and are discontinuous with each other (Figs. 1b, 3a, b), and the titillator of the male genitalia is skinnier, shorter, and rounder at the apex than that of *S. nemoralis* (Fig. 1c). To date, these differences have not been reported in Taiwanese populations of the two species.

I had the opportunity to rear nymphs of indeterminate *Statilia* species collected from Taiwan in May 2016, and fortunately, succeeded in raising them to adulthood. As a result of identification of the adults and based on their comparison with Japanese individuals (from Yamagata Prefecture, Kanagawa Prefecture, and Tsushima Island), they were confirmed to be *S. maculata*. In this paper, I provide compelling evidence for the distribution of *S. maculata* in Taiwan, with notes on the variation in the body size and profemoral black markings of the species.

Statilia maculata (Thunberg, 1784)

Specimens examined. 7 exs. (4 adult males, 3 adult females) (dried; collected when they were nymphs), Nanfeng-village (24°00'36.3"N, 121°04'14.5"E), Renai-township, Nantou-county, Taiwan, Alt. 780 m, 16–19.V.2016, K. Oshima leg.

Notes. The body color of Taiwanese *Statilia maculata* ranges from light brown to dark brown and the body length ranges from 55 to 60 mm in males (Figs. 1a, 2b) and 64 to 70 mm in females (Fig. 2d). The body length of the Taiwanese population is larger than that of the Japanese population, for which the body length is up to 55 mm in males and 63 mm in females (Fig. 2a–d) (Okada, 2001; Nakamine, 2016). To date, profemoral black markings of *S. maculata* have been known to appear on every other anteroventral femoral spine (Fig. 3a) (Okada, 2001; Zhu *et al.*, 2012; Nakamine, 2016). It is being reported for the first time that the markings appear on all anteroventral femoral spines in darker (dark brown) individuals not only from Taiwan but also from Japan (Fig. 3b, c).

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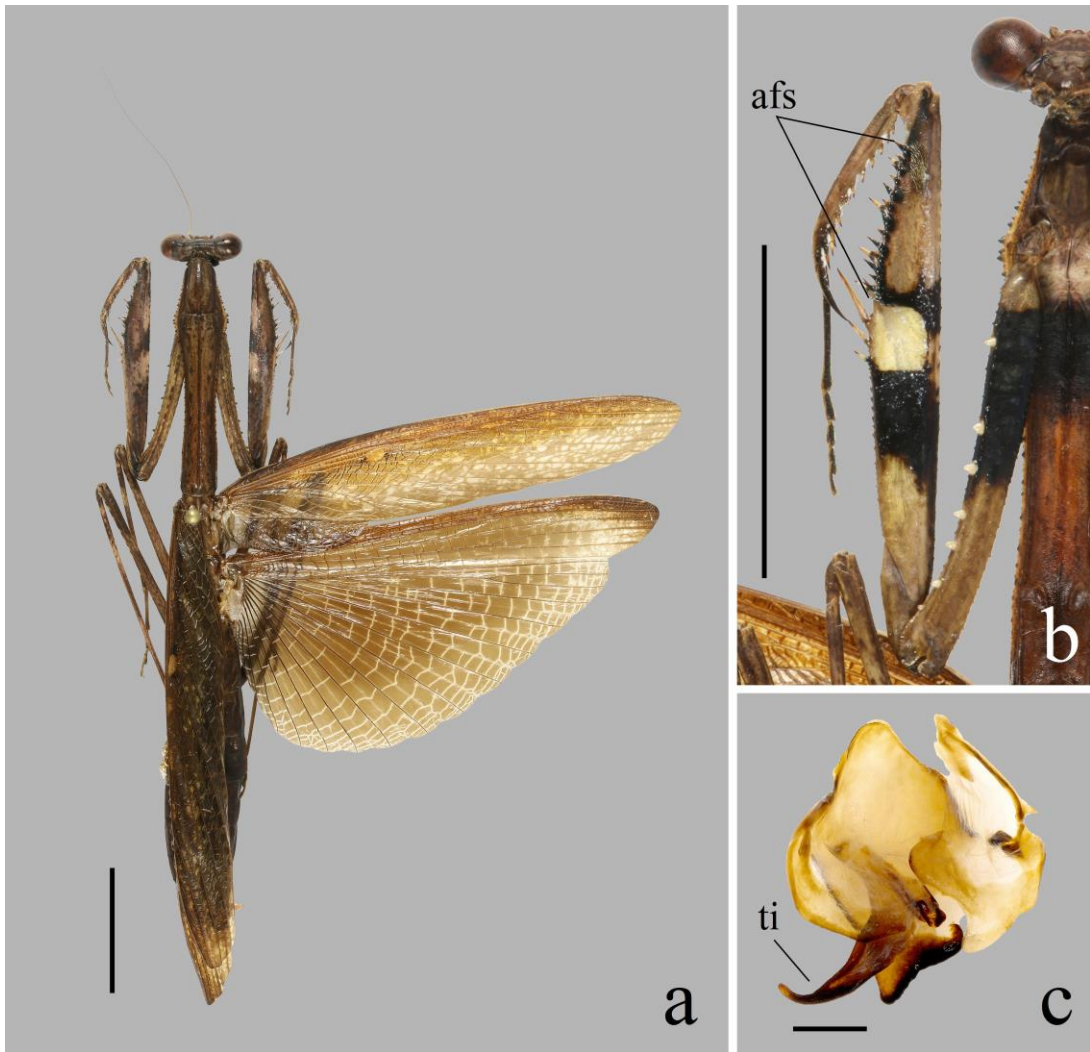


Fig. 1. *Statilia maculata*, adult male. a: habitus, dorsal view. b: foreleg, lateral view. c: genitalia, dorsal view. Lettering: afs = anteroventral femoral spines; ti = titillator. Scale bars: a, b = 10 mm; c = 1 mm.

要 約

大島千幸：台湾におけるココマキリ（カマキリ目，カマキリ科）の分布確認と形態について，———ココマキリは東南アジアから旧北区東部にかけて広く分布する．台湾からも記録されているが，同じく台湾に分布するスジイリココマキリと混同されている可能性があり，その記録には疑義があった．2016年に台湾から得られたココマキリ属の若虫を飼育したところ，ココマキリの成虫が羽化した．したがって，台湾にはココマキリが確実に分布することが明らかとなった．ココマキリの最大体長は，日本個体群と比べて，台湾個体群で大きくなることも判明した．また，前脚腿節の内刺列の基部に沿って現れる黒紋は，内縁刺 1 本おきに生じるとされていたが，濃い褐色の個体では台湾産と日本産を問わず，すべての内縁刺の基部に現れることも明らかとなった．

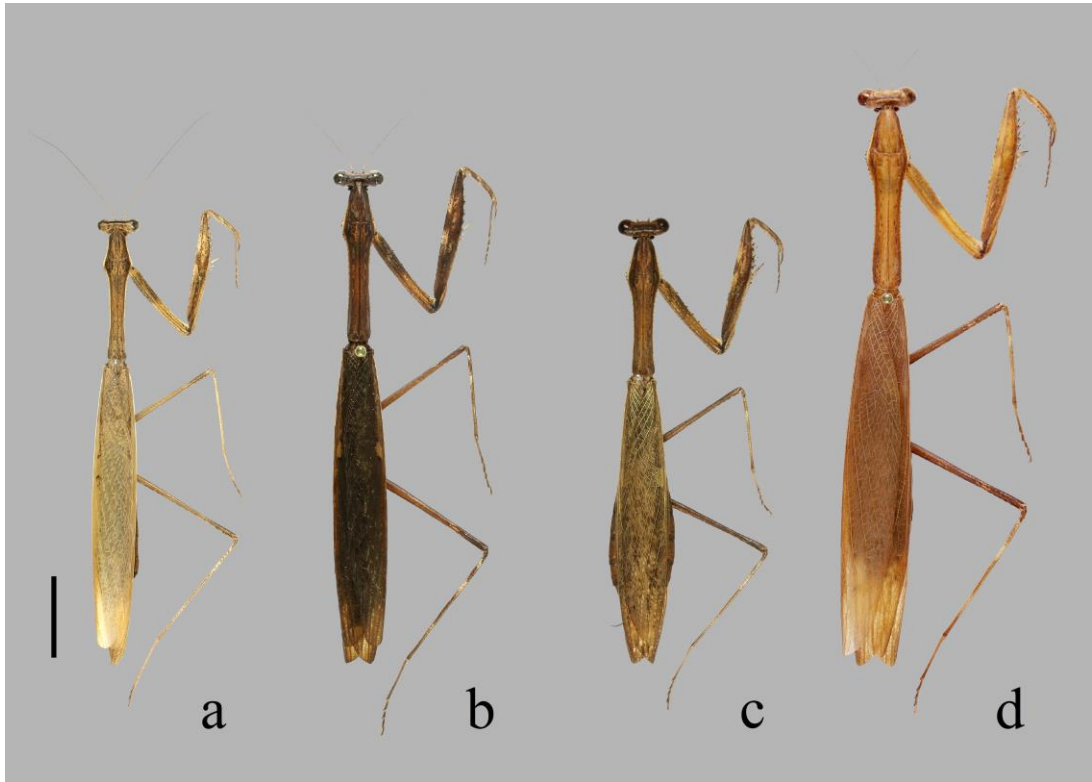


Fig. 2. *Statilia maculata*, adult. a: male from Japan (body length 55 mm). b: male from Taiwan (body length 60 mm). c: female from Japan (body length 55 mm). d: female from Taiwan (body length 70 mm). Scale bar: 10 mm.

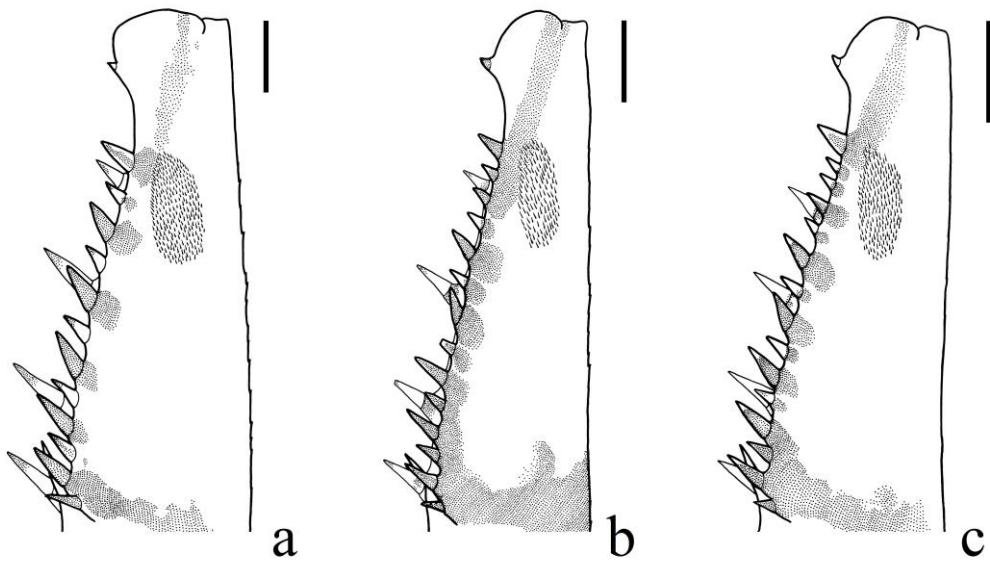


Fig. 3. Profemoral black markings of adult *Statilia maculata*. a: light brown female from Taiwan. b: dark brown male from Taiwan. c: dark brown male from Japan. Scale bars: 1 mm.

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