

A New Species of Terrestrial Isopoda of *Littorophiloscia* (Philosciidae) from the Philippines

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ABSTRACT

Littorophiloscia visayanensis n. sp. is described from Visayan Islands in the Philippines. In the shape of telson, *L. visayaensis* is close to *L. riedli* (Strouhal, 1966), *L. nipponensis* Nunomura 1986, and *L. formosana* Kwon and Jeon, 1993, but it is easily distinguished by the peculiar shape of male pleopod 1 endopod.

Key words: Isopoda, Oniscidea, Philosciidae, *Littorophiloscia*, new species, Philippines

INTRODUCTION

The genus *Littorophiloscia* was established by Hatch (1947) as a subgenus of *Philoscia* Latreille, 1804 to accommodate *Philoscia richardsonae* Holmes and Gay, 1909. Up to now, *Littorophiloscia* includes twenty nominal species (Taiti and Ferrara, 1986; Kwon *et al.*, 1993; Kwon and Jeon, 1993) and is mainly tropical in distribution. This contribution deals with the description of a new species of *Littorophiloscia* collected from Visayan Islands, the Philippines.

The specimens examined are deposited in the Museo Zoologico "La Specola" dell'Università, Firenze (MZUF) and the Department of Biology, Inje University, Kimhae (IJB).

DESCRIPTION

Genus *Littorophiloscia*, Hatch, 1947

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***Littorophiloscia visayanensis*, new species (Figs. 1-2)**

Type material. 1 ♂ (holotype), Biliran I., Biliran, Naval, Catmon, 7.ii.1997, leg. D. H. Kwon and J. A. Kim (MZUF); 5 ♂♂, 10 ♀♀ (paratypes), same data as holotype (MZUF); 11 ♂♂, 28 ♀♀ (paratypes), same data (IJB).

Non-type material examined. 3 ♂♂, 8 ♀♀, Samar I., Northern Samar, Calbayog, 3.ii.1997, leg. D. H. Kwon, D. S. Jeon and J. A. Kim (IJB); 1 ♀, Leyte I., Leyte, Kinayaban, Canunso, 8.ii.1997, leg. D. H. Kwon and J. A. Kim (IJB); 5 ♂♂, 9 ♀♀, Bohol I., Panglao I., Alona Beach,

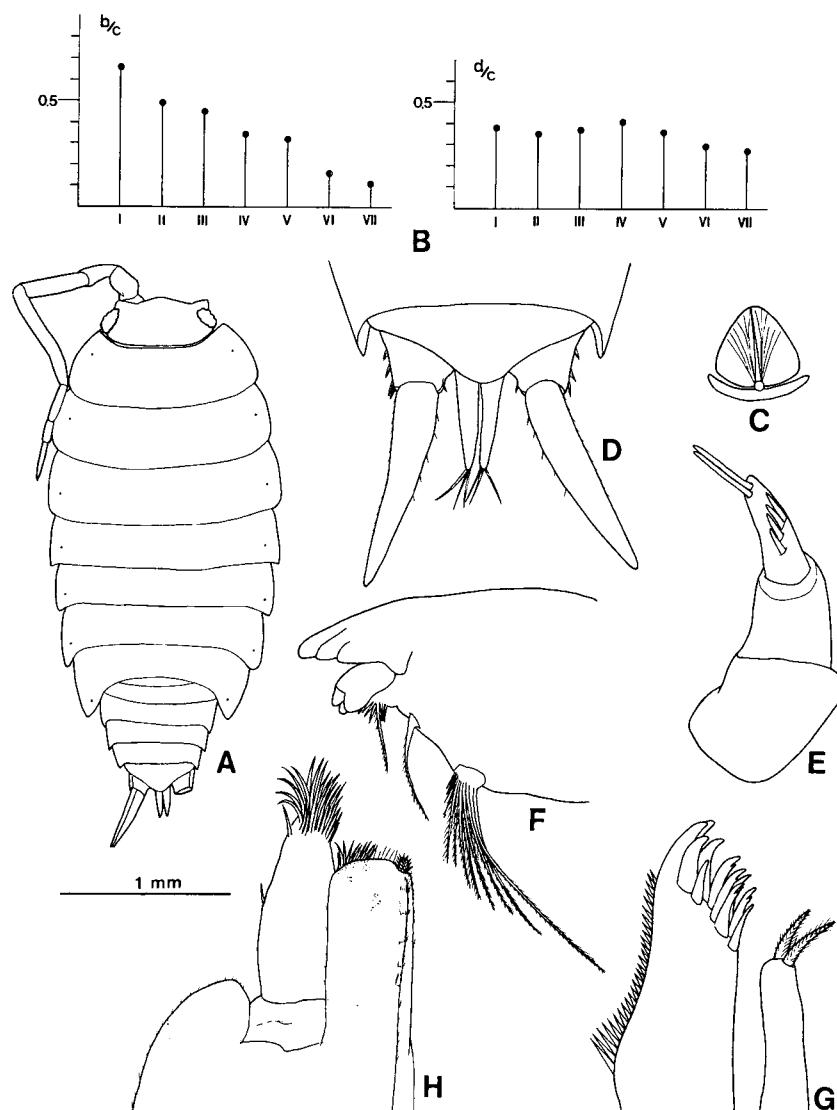


Fig. 1. *Littorophiloscia visayanensis*, n. sp. A, habitus in dorsal view, male; B, co-ordinates of noduli laterales; C, dorsal scale-spine; D, pleonite 5, telson and uropods; E, antennule; F, mandible; G, maxillule; H, maxilliped.

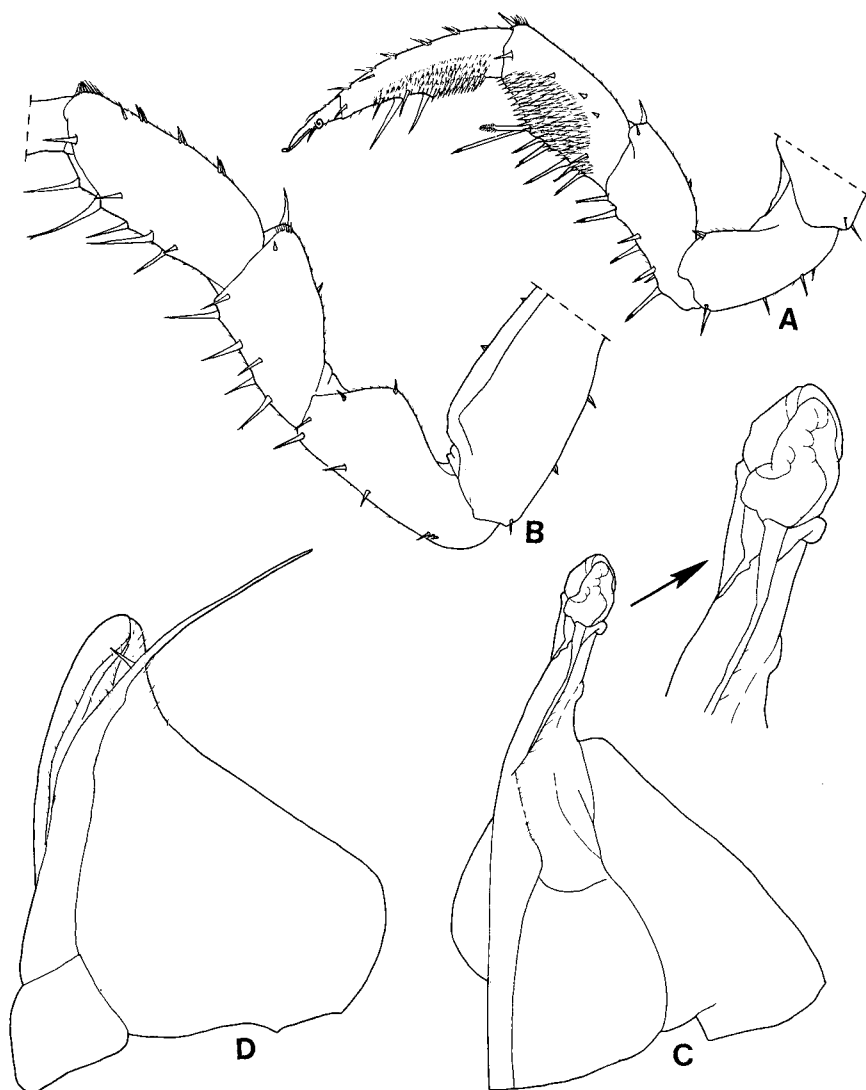


Fig. 2. *Littorophiloscia visayanensis*, n. sp., male. A, pereopod 1; B, pereopod 7, carpus, merus and ischium; C, pleopod 1; D, pleopod 2.

14-15.i.1996, leg. D. H. Kwon and D. S. Jeon (IJB).

Description. Maximum length of male 2.3 mm, of female 3.8 mm. Color in alcohol dark brown with usual pale muscle spots; a larger pigmentless spot at base of each pereonal epimeron, gradually decreasing in size posteriorly; pleonites 1 and 2 with pigmentless lateral part. Noduli laterales with b/c and d/c co-ordinates as in Fig. 1B. Dorsum rough with minute tubercles topped by a dorsal scale spine as in Fig. 1C. No gland pores. Eye with about 10 ommatidia. Cephalon with supra-antennal line slightly bent downwards in the middle and without frontal line. Telson about 2.8 times as wide as long, with slightly concave sides and rounded apex. Antennule with

third article bearing 2 aesthetascs at apex and a few aesthetascs subapically. Antenna with fifth article of peduncle slightly longer than flagellum; ratio of flagellar articles 4:3:5; second and third flagellar articles with 1 and 2 aesthetascs respectively. Mandible with molar penicil consisting of a tuft of plumose setae each arising separately. Maxillular outer branch with 5+6 (5 cleft) teeth on distal margin; inner branch with two subequal penicils on distal margin. Maxilliped with rectangular endite bearing numerous setae and a plumose penicil near mesial corner. Pereopods with a flagelliform unguis slightly enlarged at apex. Uropod with exopod twice as long as endopod; insertions of endopod proximal to that of exopod.

Male. Pereopod 1 with propodus not swollen; propodus and carpus with large setose area on rostral surface. Pereopod 7 without particular modifications. Pleopod 1 exopod much wider than long, outer margin almost straight; endopod with distal half bent outwards and complex apical part as in Fig. 2C. Pleopod 2 exopod longer than wide, with distinctly concave outer margin and rounded apex; endopod with filiform distal part, abruptly bent outwards.

Etymology. The name of this species refers to Visayas, an island group between Luzon and Mindanao, where the specimens were collected.

Remarks. In the shape of telson, *L. visayanensis* is close to *L. riedli* (Strouhal, 1966), *L. nipponensis* Nunomura 1986, and *L. formosana* Kwon and Jeon, 1993, but it is easily distinguished by the shape of male pleopod 1 endopod (Fig. 2C).

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필리핀에서 채집된 육서 등각류의 1신종 *Littorophiloscia visayanensis*
(남방쥐머느리과)

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요 약

필리핀의 Visayan 군도에서 채집된 신종을 *Littorophiloscia visayanensis*로 명명하고 기재하였다. *L. visayaensis*는 미질의 형태가 *L. riedli* (Strouhal, 1966)나 *L. nipponensis* Nunomura 1986 및 *L. formosana* Kwon and Jeon, 1993와 유사하지만 수컷의 제1복지 내지의 독특한 형태를 보면 쉽게 구분된다.