

A New Species of *Opisthostoma* from Thailand (Prosobranchia: Cyclophoracea: Diplommatinidae)

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ABSTRACT.—*Opisthostoma* (*Opisthostoma*) *beeartee* n. sp. is described from a limestone island of Tadan area, Pangnga Bay in the Andaman Sea, Thailand. This is the second record for the genus and the first record of the subgenus *Opisthostoma* for Thailand.

Key words: *Opisthostoma* (*Opisthostoma*) *beeartee*; Diplommatinidae; Cyclophoracea; Thailand

INTRODUCTION

Some papers of Thai land operculates has been published but almost did not include any species of land operculate snail genus *Opisthostoma*. Only one species *Opisthostoma klongsangensis* was recorded by Panha (1997). *Opisthostoma* is widely distributed in Southeast Asia (Vermeulen, 1991), and there are many studies on taxonomy and ecology of various of its species (Bentham Jutting, 1932; 1951; 1952;

1961; Berry, 1962; 1964; Solem, 1966; Thompson, 1978; Vermeulen, 1991; 1994). In December 1997, malacologists of Department of Biology, Faculty of Science Chulalongkorn University, visited Pangnga Bay areas to study systematic and faunistic of terrestrial snails on limestone areas of Thailand. Several undescribed specimens were collected. One of these is peculiar because of it extremely minute size and it stranged shape. It is represent subgenus *Opisthostoma* s. str., which has been unrecorded from Thailand. The specimens were obtained in soil samples from a limestone hill of Tadan area, Pangnga Bay in the Andaman Sea, Pangnga Province, Thailand. This is the first record of *Opisthostoma* (*Opisthostoma*) occurring in Thailand. The holotype is described below.

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Opisthostoma (Opisthostoma) beeartee
Panha, n. sp.

Fig. 2a-e

Description of holotype – Shell minute, white, cylindrical shaped slightly oblique with 0.9 mm height and the width from the outermost tuba to outermost penultimate whorl is 1.4 mm. Whorl is approximately $3 \frac{3}{4}$ (included tuba). Sutures are well impressed. Constriction is distinct. Tuba is about $\frac{1}{4}$ whorl. Shell has distinct radial ribs. Aperture tilted up about 30 degree to the apex. Apex is slightly oblique to the shell axis. Peristome is thickened and reflected. Aperture is rounded with double peristome. The opening of aperture faces obliquely upward.

Type locality – Thailand, Tadan limestone hill near Pangnga Bay, Pangnga Province at $8^{\circ} 23' 52''$ N $98^{\circ} 30' 51''$ E (see Fig. 1).

Etymology – The specific epithet *beeartee* is from the name of Biodiversity Research and Training Program (BRT), a joint program supported by the Thailand Research Fund and

the National Center for Genetic Engineering and Biotechnology.

Type material – The holotype (CUMZ, IDi 093) is deposited in the Chulalongkorn University Zoological Museum with two shell paratypes (CUMZ, IDi 094) ; two shell paratypes will be deposited in the Museum of Zoology, University of Michigan (CUMZ, IDi 095), Ann Arbor; legacy: S. Panha.

Geographic distribution and habitat – *Opisthostoma beeartee* is known only from Tadan limestone hill near Pangnga Bay, Pangnga Province. The shells were found in soil samples. *Macrochlamys resplendens* (Philippi) was a dominant land snail species in this habitat.

Diagnosis – The $\frac{1}{4}$ whorl of tuba projecting upward and the oblique apex are the dominant characters for the new species.

Remarks – *Opisthostoma beeartee* n. sp. looks very close to *Opisthostoma javanicum* Benthem Jutting, 1932 which found in Borneo, but the new species is slightly different in size and shorter tuba, and the oblique apex characteristic.

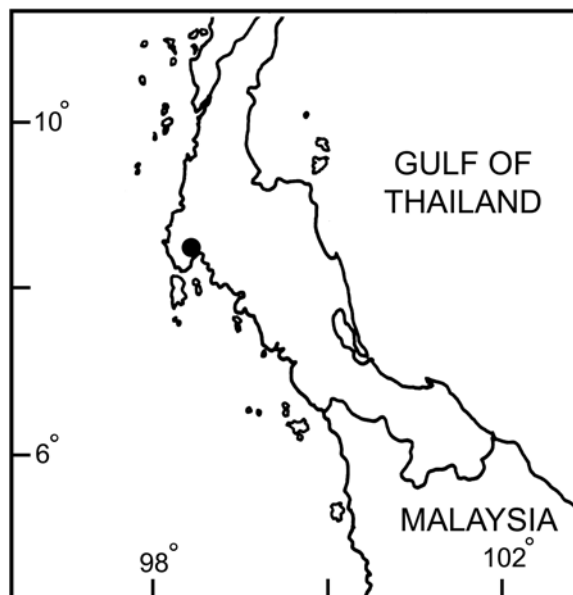


FIGURE 1. Map showing location of type locality, Tadan area near Pangnga bay, Pangnga Province (●).

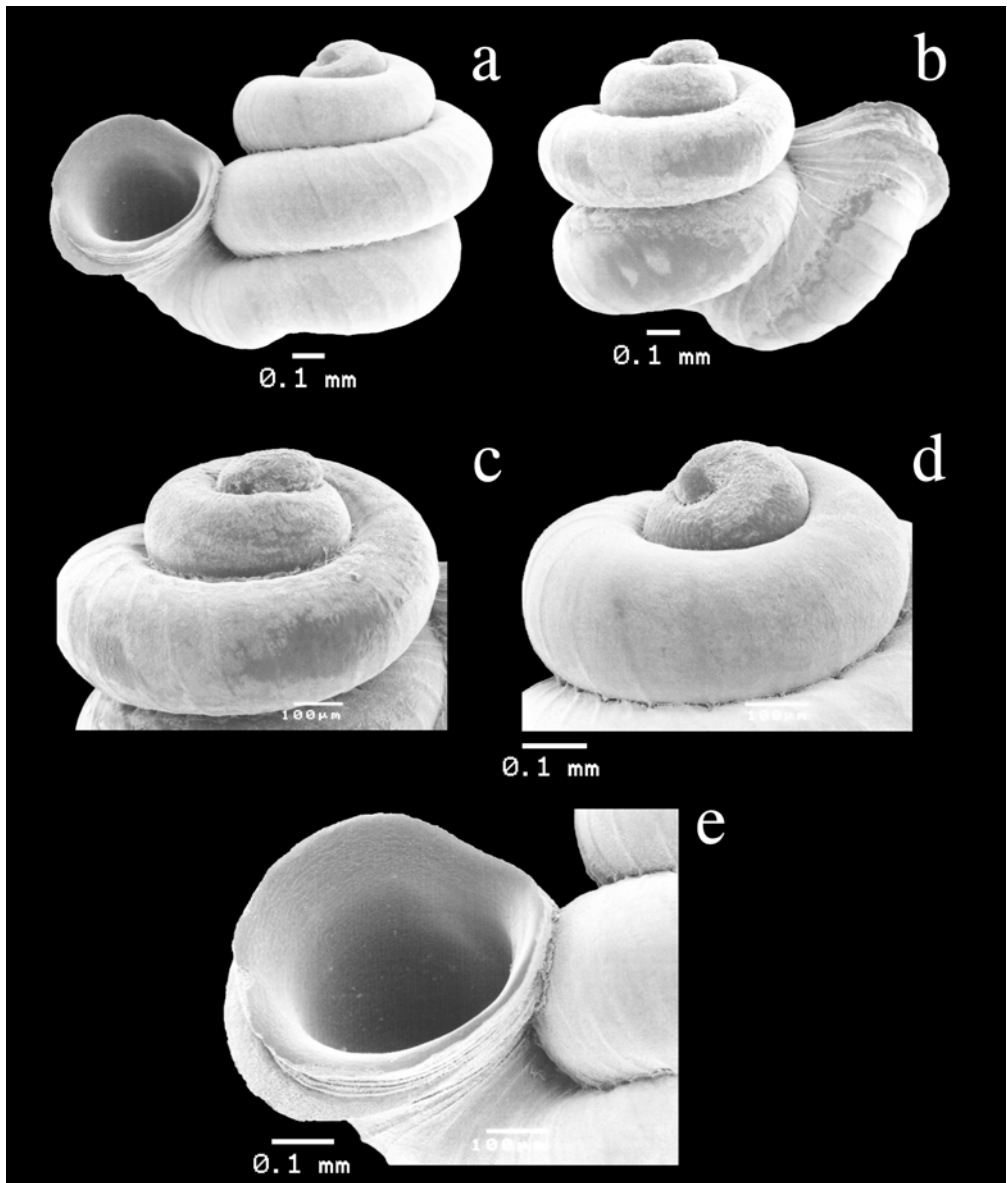


FIGURE 2. *Opisthostoma (Opisthostoma) beeartee* n. sp., holotype: (a) apertural view; (b) abapertural view; (c) apical view, (d) apical showing protoconch; (e) shell aperture.

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