

## A New *Phaenomenella* Fraussen & Hadorn, 2006 (Gastropoda: Buccinidae), from the Andaman Sea

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**Abstract.** A peculiar species from the Andaman Sea is described as *Phaenomenella mokenorum* sp. nov. The generic placement is based on conchological characteristics of the apical whorls, sculpture and columella. The new species differs from its congeners *Ph. inflata* (Shikama, 1971), *Ph. insulapratasensis* (Okutani & Lan, 1994) and *Ph. angusta* Fraussen & Hadorn, 2006 by having smoother sculpture and a distinct shape.

**Key Words:** Andaman Sea, Gastropoda, Buccinidae, *Phaenomenella*, new taxon

### INTRODUCTION

The genus *Phaenomenella* Fraussen & Hadorn, 2006 is characterized by the angular shape of the apical whorls. Two species, *Phaenomenella inflata* (Shikama, 1971) and *Phaenomenella angusta* Fraussen & Hadorn, 2006, are known from the East China Sea and off Taiwan. One species, *Phaenomenella insulapratasensis* (Okutani & Lan, 1994), is known from the South China Sea. The new species here described is from the Andaman Sea, hereby extending the range of the genus into the eastern Indian Ocean.

The material reported on in the present study originates from the International Indian Ocean Expedition 'ANTON BRUUN' conducted in 1963.

#### Abbreviations:

ANSP	Academy of Natural Science, Philadelphia, U.S.A.
KF	collection Koen Fraussen, Aarschot, Belgium
MNHN	Muséum national d'Histoire naturelle, Paris, France

### SYSTEMATICS

#### BUCCINIDAE Rafinesque, 1815

Genus *Phaenomenella* Fraussen & Hadorn, 2006. Type species: *Manaria inflata* Shikama, 1971 (type locality: Taiwan) by original designation.

#### *Phaenomenella mokenorum* sp. nov.

Figs. 1–6

**Type material:** Holotype (55.6 mm) ANSP 291386,

paratype 1 (44.0 mm) and paratype 2 (35.4 mm) ANSP 416212 (from the type locality).

Paratype 3 (42.3 mm) and paratype 4 (40.2 mm) (Andaman Sea, southern Myanmar (Burma), west off Twin Island, ANTON BRUUN st. 22B, 10°39'N, 97°06'E, 274–293 m deep, on sand-mud, by dredge, 24/3/1963), ANSP 291928.

All shells empty or inhabited by hermit crab.

**Type locality:** Andaman Sea, Thailand, E-SE off Phuket Island, ANTON BRUUN stn 17, 07°40'N, 97°08'E, 512–503 m deep, on green-brown clay, by shrimp trawl, 21/3/1963.

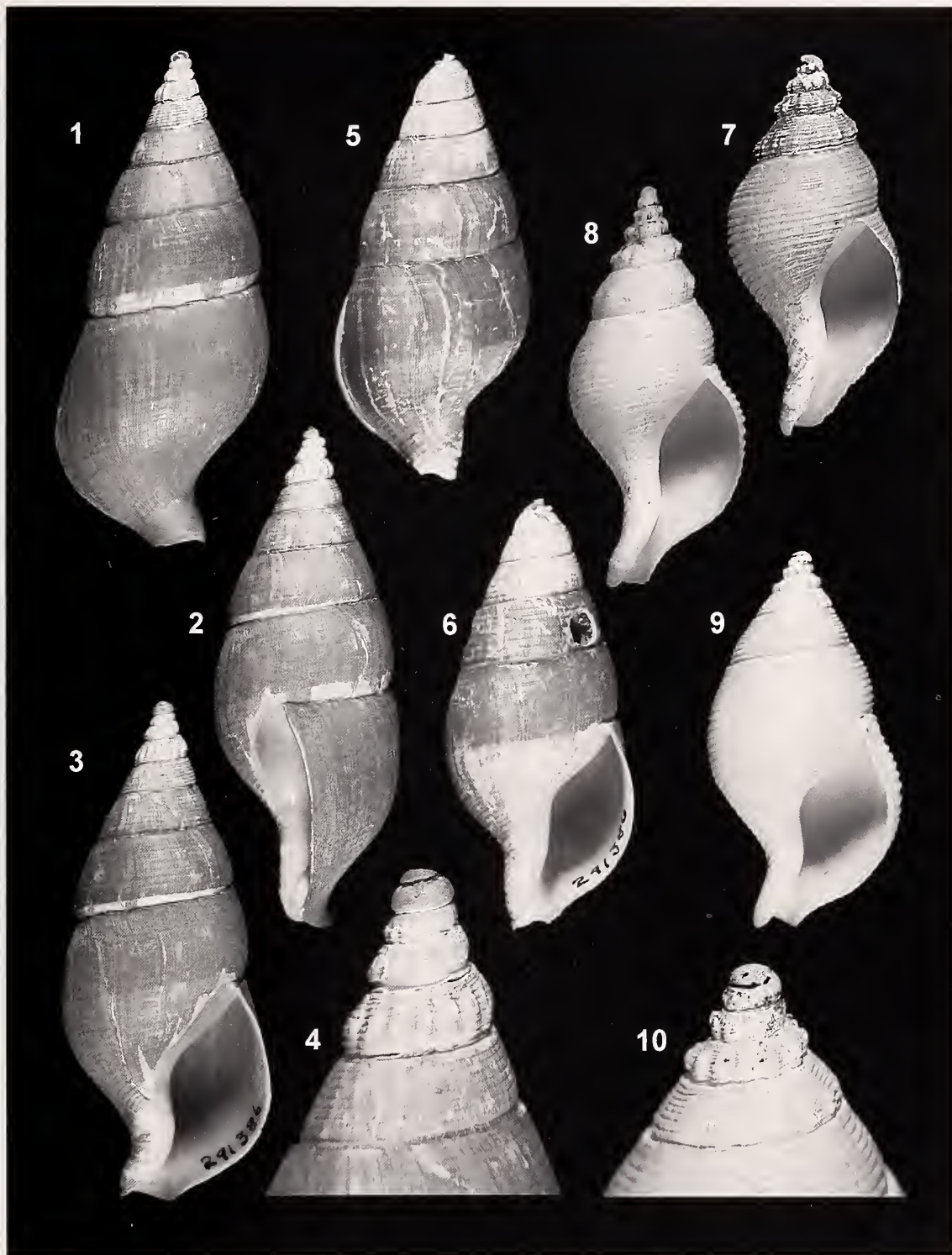
**Range and habitat:** Only known from the type material. Andaman Sea, off Thailand and off southern Myanmar.

**Description:** Shell large for the genus (up to 55.6 mm), thin but solid, color white to pale brownish, shape slender with moderately high spire, body whorl rather inflated with short siphonal canal.

Protoconch rather bulbous, 2.7 mm in diameter, damaged (holotype) or decollate (paratypes), the 2 remaining protoconch whorls are concave and smooth, last whorl slightly angulate below periphery. Transition to teleoconch indistinct.

Teleoconch whorls up to 7 in number, laterally flattened. Suture deep, abapically slightly truncate.

First 1 1/2 whorls eroded, traces of broad but low and smooth spiral cords occasionally visible, with a fine line as interspace. All following whorls with 10 spiral cords, flattened with shallow, narrow interspaces at second whorl. Spiral cords gradually becoming broader, lower and flattened towards penultimate whorl. Body whorl rather smooth, indistinct spiral cords. First 1 1/2 whorls eroded, traces of axial ribs occasionally appearing, last half of second whorl with 8 axial ribs,



Figures 1–10. 1–6. *Phaenomenella mokenorum* sp. nov. 1–4. 55.6 mm, holotype, Andaman Sea, Thailand, E-SE off Phuket Island, ANTON BRUUN stn 17, 07°40'N, 97°08'E, 512–503 m deep, ANSP 291386; 5–6. 44.0 mm, paratype 1, same locality, ANSP 416212. 7–8. *Phaenomenella inflata* (Shikama, 1971) 7. 30.5 mm, Taiwan, TAIWAN 2000, stn CP27, 22°13.3'N, 120°23.5'E, 326 m, MNHN; 8. 33.8 mm, off Suao, Taiwan, dredged, 190 m, KF nr. 0524. 9–10. *Phaenomenella insulapratensis* (Okutani & Lan, 1994), 39.2 mm, off Vietnam, trawled by Taiwanese fisherman, KF nr. 1495.

weak near both sutures, more prominent near periphery. Third whorl suddenly smooth, no traces of axial sculpture on subsequent whorls.

Aperture semi-oval. Columella strongly twisted, occasionally curved (paratypes), callus thin, smooth. Outer lip thin or slightly thickened, occasionally slightly curled outwards (paratype 1). Outer lip smooth (paratype 1) or with weak traces of internal lirae (holotype), occasionally with 17 or 19 internal lirae (paratypes 3–4). Siphonal canal short, broad, open.

Periostracum greenish brown, well adherent, velvety with numerous fine, rather straight (only weakly curved) incremental lamellae running from suture to suture when fresh (holotype), smooth and glossy when eroded (paratype 1).

Animal and radula unknown.

**Remarks:** *Phaenomenella mokenorum* sp. nov. is characterized by the elegant shape (slender spire in combination with convex body whorl) and the spiral sculpture of equal strength elements.

The generic placement is based on morphological similarities of the distinctive shape of the apical whorls (strongly angular), sculpture and columellar shape, which are all typical for the genus.

*Phaenomenella inflata* from off Taiwan differs by having more convex whorls and a shorter spire in combination with a longer siphonal canal.

*Phaenomenella insulapratasensis* from off Vietnam

differs by having a more ovoid shape, a shorter spire, a more solid shell and a smaller adult size.

*Phaenomenella angusta* from off Taiwan and southern Japan differs by having a more slender shape with a higher spire and a sharper spiral sculpture.

**Etymology:** *Phaenomenella mokenorum* sp. nov. is named after the moken, sea-nomads, the indigenous people of the region.

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## REFERENCES

- FRAUSSEN, K. & R. HADORN. 2006. *Phaenomenella*, a new genus of deep-water buccinid (Gastropoda: buccinidae) with description of a new species from Taiwan. *Novapex* 7(4):103–109.
- OKUTANI, T. & T. C. LAN. 1994. A new buccinid whelk collected from Pratas Islets, South China Sea. *Bulletin of the Malacological Society of China* 18:1–4.
- SHIKAMA, T. 1971. On some noteworthy marine Gastropoda from southwestern Japan (III). *Science Reports of the Yokohama National University. (section 2)* 18:27–35.