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Bathyferula, a new Caribbean deep-water turrid genus (Gastropoda: Turroidea), with description of a large-sized new species

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The examination of five specimens of a turrid species from various Caribbean locations led us to the recognition of a new species and genus. Although the group of turriform gastropods comprise already about 340 valid genera and subgenera (Taylor *et al.* 1993) we have not been able to find a genus that, even in a very broad sense, could accommodate the new species. Therefore, we propose the new genus *Bathyferula*.

The superfamily classification of the turrids has been controversial. Recently, Bouchet *et al.* (2011) proposed a single superfamily concept by assigning all turrid families to Conoidea while Tucker and Tenorio (2009) presented a classification for the Conoidea and Turroidea. Given that molecular (e.g. Puillandre *et al.* 2008) and morphological differences (Taylor *et al.* 1993) strongly support two superfamilies we assign *Bathyferula* to Turroidea since the latter contains the genera most similar to our new genus: *Hindsiclava* Hertlein & Strong, 1955 and *Fusiturricula* Woodring, 1928. Unfortunately, no living specimen of the present species is available for anatomical, molecular, and radular examination and the protoconch and operculum are missing. Furthermore, unequivocal shell characteristics which would enable assignment of the new genus to a family are missing. *Hindsiclava* (Crassispiridae) and *Fusiturricula* (probably Drilliidae) belong to two different families (Bouchet *et al.* 2011). We therefore assign the new genus tentatively to Incertae sedis rather than to a specific family.

Abbreviations

DLC	Dominique Lamy collection, Baie-Mahault, Guadeloupe
KFC	Koen Fraussen collection, Aarschot, Belgium
MNHN	Muséum national d'Histoire naturelle, Paris, France
PSC	Peter Stahlschmidt collection, Rohrbach, Germany
USNM	United States National Museum of Natural History, Washington (DC), USA

Systematics

Class Gastropoda Cuvier, 1797

Superfamily Conoidea Fleming, 1822

Bathyferula new genus

Type species: Bathyferula delannoyei new species, by original designation.

Diagnosis. Shell large, solid. Shape elongate, fusiform, with high spire and moderately elongate anterior canal, which is unnotched. Whorls convex, laterally flattened, with weak subsutural concavity. Spiral sculpture characterized by the presence of fine cords and a flattened subsutural cord. Axial sculpture consisting of short axial ribs on abapical part of upper whorls, becoming obsolete on penultimate and body whorls, with fine incremental lines covering the whole surface. Anal sinus regularly U-shaped.