

Description of a new species of *Cylinder* (Conidae) from Mauritius

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ABSTRACT A new species of *Cylinder* (Conidae) from Mauritius is described here as *Cylinder chantillyi*, and compared with *Cylinder archiepiscopus f. sirventi* Fenaux, 1943.

KEYWORDS *Cylinder C. archiepiscopus*, *C. sirventi*, *C. chantillyi*, Mauritius

INTRODUCTION

The 'textile' group of cones has effectively been separated into an Eastern Indo-Pacific 'textile' complex, and a Western Indian ocean 'archiepiscopus' complex. There are a number of recognizable members of the *archiepiscopus* group such as *Cylinder eutrius*, *C. cholmondeleyi*, *C. sirventi*, *C. fascifer*, and *C. concatenatus*, as examples. These are relatively consistent in their average size, morphology, and patterns. Although this Indo-Pacific group has a great variety of diverse forms and patterns, there is one that demonstrates a highly consistent morphology, colour and size. Further to this, it is almost certainly (an isolated) endemic to the Island of Mauritius. It accordingly deserves species status and is described hereunder as *Cylinder chantillyi*.

Abbreviations:

Coll:	Collection of
n. sp.	New species
NMSA	KwaZulu-Natal Museum, Pietermaritzburg, South Africa
MNHN	Muséum national d'Histoire naturelle, Paris, France

SYSTEMATICS

Class	Gastropoda Cuvier, 1795
Subclass	Sorbeoconcha Ponder and Lindberg, 1997

Order	Prosobranchia Milne-Edwards, 1848
Infraorder	Neogastropoda Wenz, 1938
Superfamily	Conoidea Fleming, 1822
Family:	Conidae Fleming, 1822.
Genus:	<i>Cylinder</i> Montfort, 1810.

Cylinder chantillyi R. Aiken, n. sp.
(Figure 1; Plates 1 and 2)

Description. Specimens range from 40 mm to 50 mm, averaging 44 mm. Their surface appears as glossy and smooth, but in fact the whorl has fine radial grooves running from shoulder to base, slightly stronger anteriorly. The shell shape is ovate, with a sharply pointed, straight-sided spire, and distinct shoulder edge. The aperture is white within. The colour of this species is consistent, and reasonably plain, from orange to deep yellow-orange. The whorl is patterned by two generally distinct, more solid bands of deeper colour, combined with a pattern of relatively fine tenting. The nature of this 'tenting' is a key to species separation.

Type Material. The type material of the holotype and paratypes of *Cylinder chantillyi* are as follows:

Holotype - 41.44 x 21.93 mm. (Figure 1, Plate 1.A). NMSA P2814/T4655. Donated by J.P. Vaulbert; Paratype 1 - Size undetermined. Coll: MNHN Paris. Donated by J.P. Vaulbert; Paratype 2 - 43.07 x 23.62 mm. (Plate 1.B) Coll: R. Aiken; Paratype 3 - 43.07 x 23.62 mm. (Plate 1.C) Coll:



Figure 1. *Cylinder chantillyi* n.sp. Holotype

R. Aiken; Paratype 4 - 40.87 x 20.43 mm. (Plate 1.D) Coll: Jean Pierre Vaulber; Paratype 5 - 49.81 x 25.75 mm. (Plate 1.E) Coll: R. Aiken; Paratype 6 - 42.69 x 22.38 mm. (Plate 1.F) Coll: Jean Pierre Vaulbert; Paratype 7 - 46.70 x 22.83 mm. (Plate 1.G) Coll: R. Aiken; Paratype 8 - 41.01 x 21.12 mm. (Plate 1.H) Coll: A. Seccombe; Paratype 9 - 40.87 x 20.43 mm. (Plate 1.I) Coll: R. Aiken; Paratype 10 - 45.09 x 22.78 mm. (Plate 1.J) Coll: Jean Pierre Vaulbert; Paratype 11 - 42.71 x 22.60 mm. (Plate 1.K) Coll: R. Aiken; Paratype 12 - 43.17 x 23.67 mm. (Plate 1.L) Coll: F. Lorenz; Paratype 13 - 45.46 x 22.92 mm. (Plate 2.A) Coll: R. Aiken; Paratype 14 - 43.07 x 23.62 mm. (Plate 2.B) Coll: D. Berschauer; Paratype 15 - 41.66 x 22.11 mm. (Plate 2.C) Coll: J. Rosado; Paratype 16 - 43.17 x 21.52 mm. (Plate 2.D) Coll: E. Petuch; Paratype 17 - 43.85 x 24.78 mm. (Plate 2.E) Coll: R. Aiken; Paratype 18 - 43.37 x 22.48 mm. (Plate 2.F) Coll: S. Veldsman; Paratype 19 - 47.53 x 22.65 mm. (Plate 2.G) Coll: R. Aiken; Paratype 20 - 42.51 x 22.18 mm. (Plate 2.H) Coll: Jean Pierre Vaulbert; Paratype 21- 40.05 x 20.0 mm. (Plate 2.I) Coll: M. Page.

Distribution. Found only in sporadic shallow areas off the Island of Mauritius.

Etymology. This species is named to honour its discoverer, Jean Pierre Vaulbert de Chantilly.

DISCUSSION

The only cone that could be confused with this attractive species appears to be *Cylinder archiepiscopus* f. *sirventi* Fenaux, 1943 (Plate 3). However, this is found exclusively in Madagascar, albeit that it also displays as a shell with plain yellow colouring. It is also consistently, and noticeably larger in size than *C. chantillyi*, with tenting. *Cylinder chantillyi* has an interesting discerning feature, in that the tent patterning (unlike *C. sirventi* and most other *C. archiepiscopus*), has no outer demarcation. It is a shallow water species.

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- Conchology.be.** *Conus sirventi*, Shell ID: 11146.

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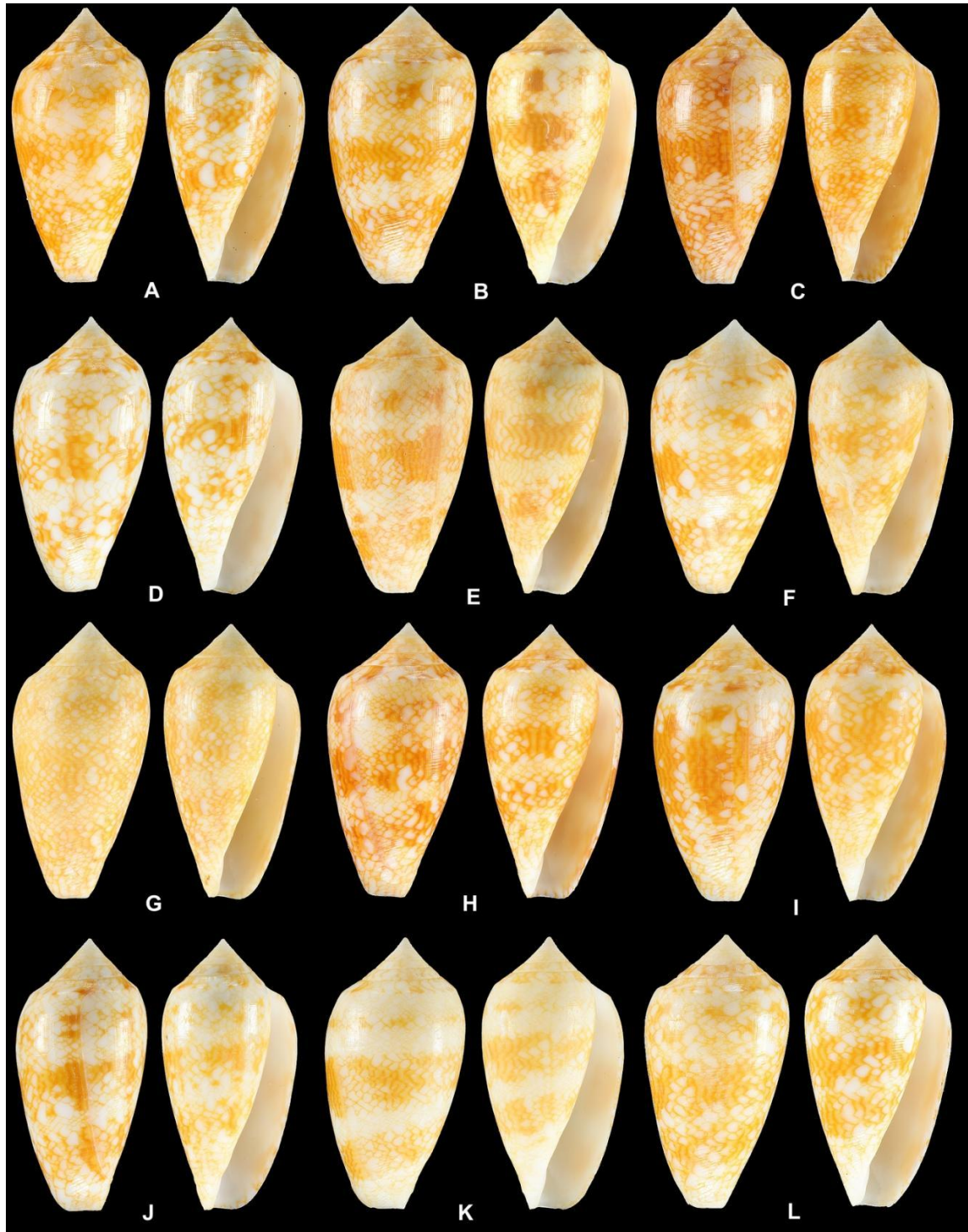


Plate 1. **A=** *Cylinder chantillyi* (41.44 x 21.93 mm) – Holotype; off Mauritius; Coll. NMSA P2814/T4655. **B=** *Cylinder chantillyi* (43.07 x 23.62 mm) – Paratype 2; **C=** *Cylinder chantillyi* (43.07 x 23.62 mm) – Paratype 3; **D=** *Cylinder chantillyi* (40.87 x 20.43 mm) – Paratype 4. **E=** *Cylinder chantillyi* (49.81 x 25.75 mm) – Paratype 5; **F=** *Cylinder chantillyi* (42.69 x 22.38 mm) – Paratype 6. **G=** *Cylinder chantillyi* (46.70 x 22.83 mm) – Paratype 7. **H=** *Cylinder chantillyi* (41.01 x 21.12 mm) – Paratype 8; **I=** *Cylinder chantillyi* (40.87 x 20.43 mm) – Paratype 9. **J=** *Cylinder chantillyi* (45.09 x 22.78 mm) – Paratype 10; **K=** *Cylinder chantillyi* (42.71 x 22.60 mm) – Paratype 11. **L=** *Cylinder chantillyi* (43.17 x 23.67 mm) – Paratype 12.



Plate 2. **A=** *Cylinder chantillyi* (45.46 x 22.92 mm) – Paratype 13. **B=** *Cylinder chantillyi* (43.07 x 23.62 mm) – Paratype 14; **C=** *Cylinder chantillyi* (41.66 x 22.11 mm) – Paratype 15; **D=** *Cylinder chantillyi* (43.17 x 21.52 mm) – Paratype 16. **E=** *Cylinder chantillyi* (43.85 x 24.78 mm) – Paratype 17; **F=** *Cylinder chantillyi* (43.37 x 22.48 mm) – Paratype 18. **G=** *Cylinder chantillyi* (47.53 x 22.65 mm) – Paratype 19. **H=** *Cylinder chantillyi* (42.51 x 22.18 mm) – Paratype 20; **I=** *Cylinder chantillyi* (40.05 x 20.0 mm) – Paratype 21. **J=** *Cylinder chantillyi* Spire.

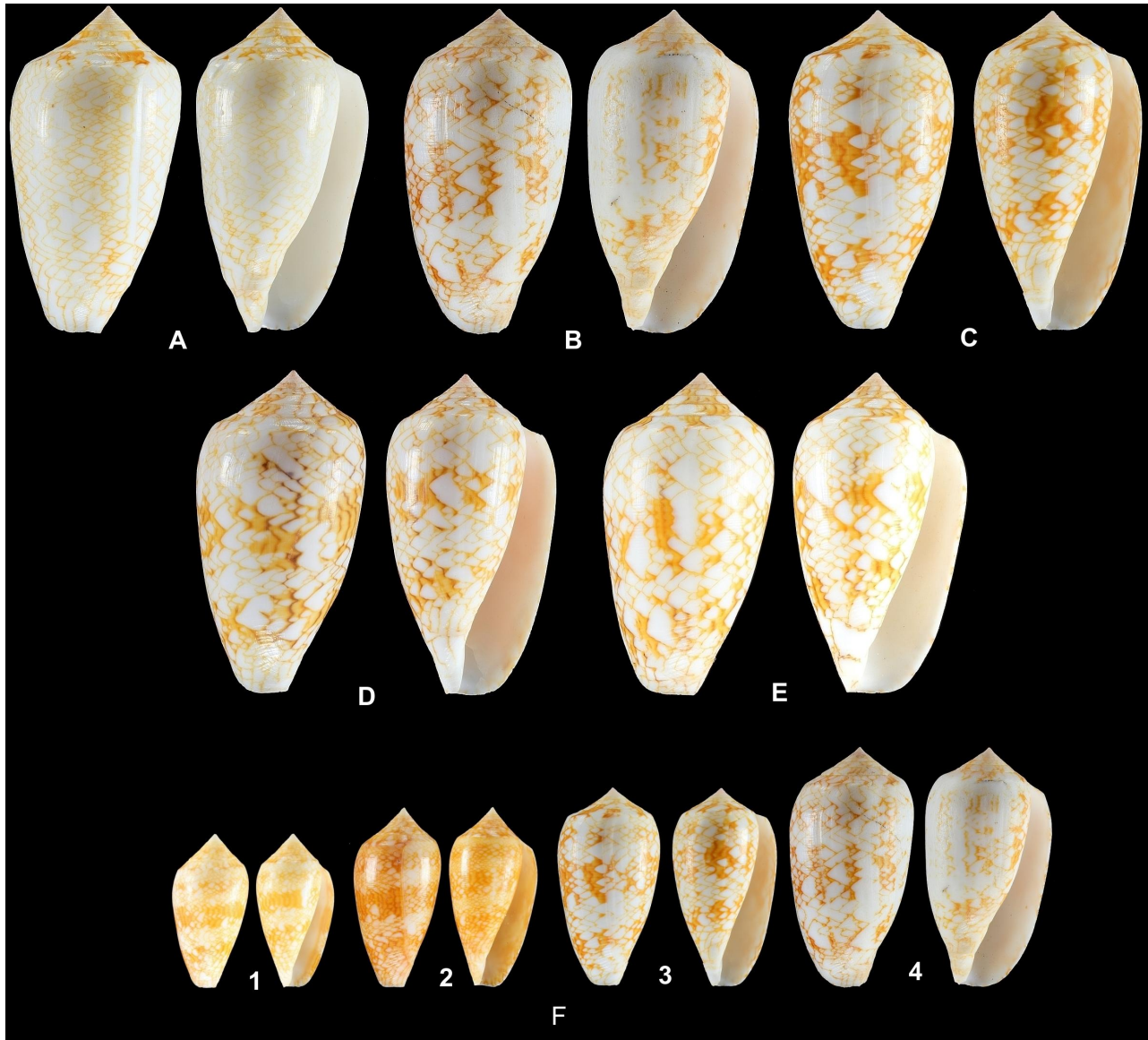


Plate 3. Comparison plate. A= *Cylinder archiepiscopus f. sirventi*, Madagascar (69.41 x 37.40 mm); B= *Cylinder archiepiscopus f. sirventi*, Madagascar (68.07 x 35.74 mm); C= *Cylinder archiepiscopus f. sirventi*, Madagascar (55.56 x 29.26 mm); D= *Cylinder archiepiscopus f. sirventi*, Madagascar (55.14 x 28.80 mm); E= *Cylinder archiepiscopus f. sirventi*, Madagascar (52.12 x 28.90 mm); F= Comparison: 1&2 – *Cylinder chantillyi* (40 mm & 43 mm) 3&4 *Cylinder archiepiscopus f. sirventi* (56 mm & 68 mm).

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