

Synonyms

Oliva tremulina Lamarck, 1811
Oliva olympiadin Duclos, 1835
Oliva azemula Duclos, 1840
Oliva nobilis Reeve, 1850
Oliva concinna Marrat, 1870
Oliva tenebrosa Marrat, 1870
Oliva fumosa Marrat, 1871
Oliva hayesi Sargent & Petuch, 2012



Oliva miniacea tremulina Lamarck, 1811

Introduction

Petuch & Sargent (1986, 2012) still consider this oliva a full distinct species since its range of diffusion is too far from the one of *Oliva miniacea* (Röding, 1798). Here I ask the reader's attention on three points: 1) At least two other *Oliva* species have an areal distribution that goes from the east coast of Africa to the Pacific Ocean, they are *Oliva caerulea* (Röding, 1798) and *Oliva nitidula* Duclos, 1835 2) The two distribution areas do not overlap but rather are clearly separated. This is the rule between a species and its subspecies. 3) The morphological differences between *Oliva miniacea* and *Oliva miniacea tremulina* are quite modest and mainly concern the coloring. I therefore agree with Tursch & Greifeneder (1996, 2000) and Hunon, Hoarau & Robin (2009) which consider this oliva as a subspecies of *Oliva miniacea*.

Oliva hayesi Sargent & Petuch, 2012 has been just named in the magazine Visaya as new species sharing the same area of *Oliva miniacea tremulina*. Nevertheless, after reading the article, I think there are not enough data to clearly separate the two taxa. The provenience of the holotype and the paratypes is uncertain since there are no direct evidence on the field. The morphology of the new taxon falls within the intraspecific variability of *Oliva miniacea tremulina* (see the plates in this card). The iconography used to compare the new taxon with *Oliva miniacea tremulina* is tricky, subadult specimens are compared with full adult specimens. In the juvenile specimens of *Oliva miniacea* such as in its two subspecies the growth angle ("a") is greater than in the adults. Consequently the younger shells show a slim shape with a higher spire (see the plate below). I therefore consider *Oliva hayesi* a synonym of *Oliva miniacea tremulina*.

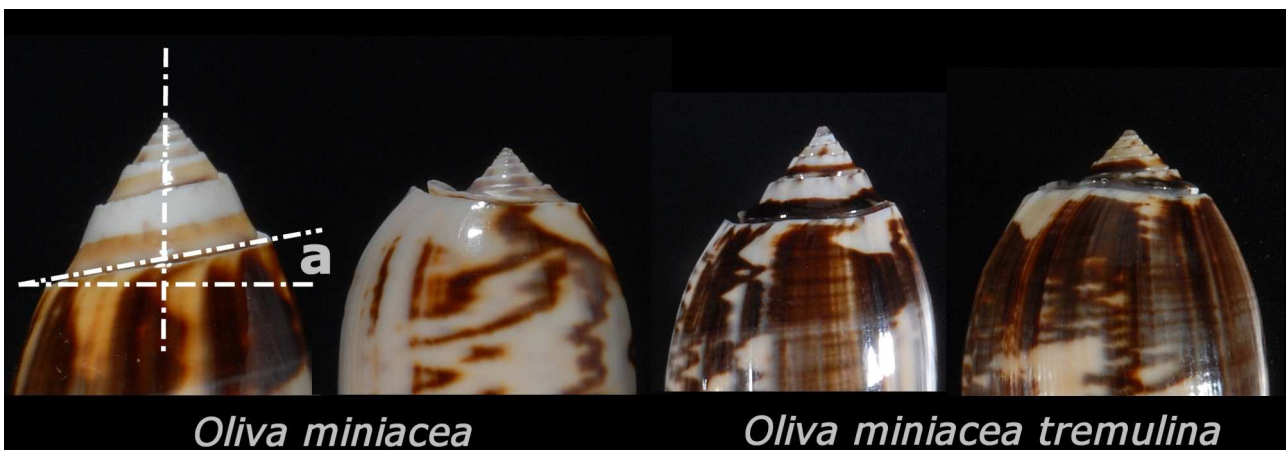


Plate 1. Comparison plate, see the above text.

Key Discriminators

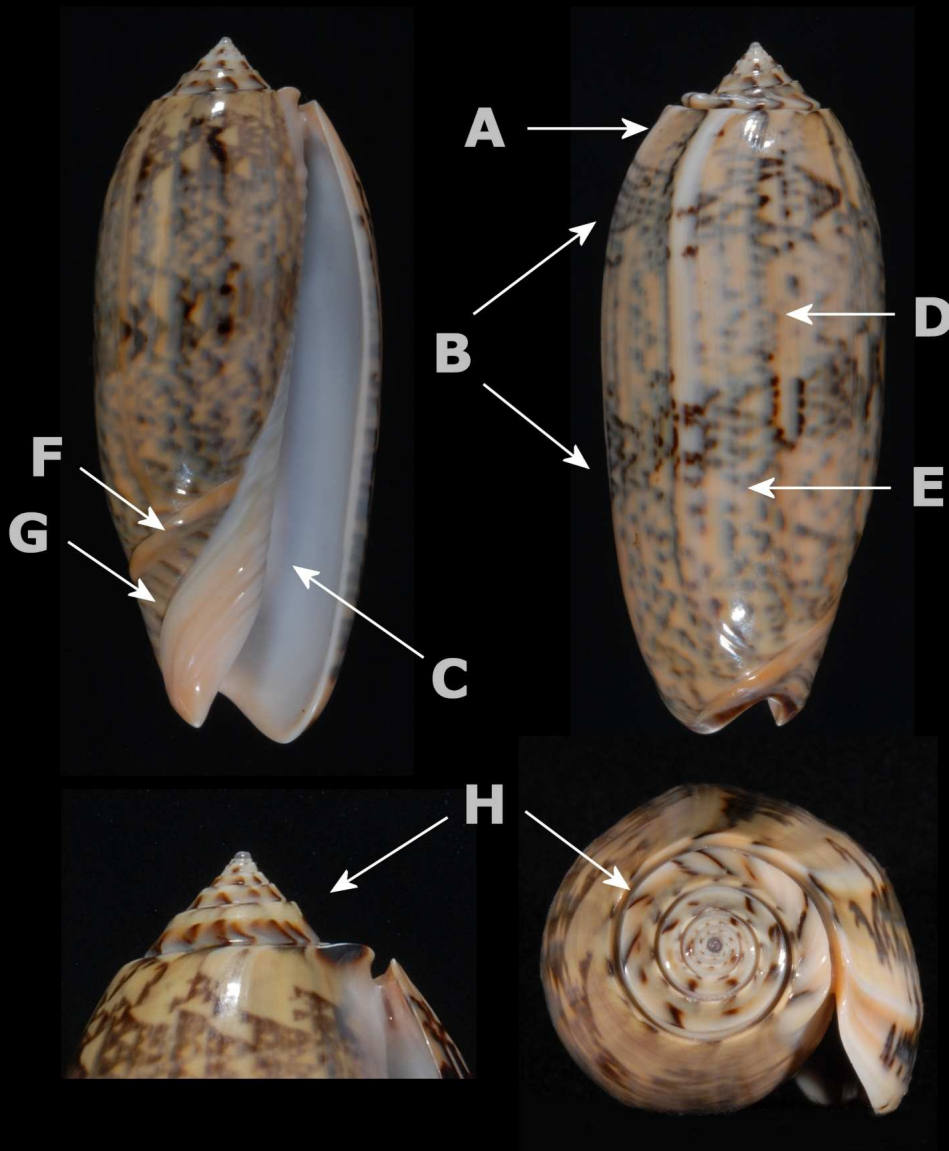


Plate 2. *Oliva miniacea tremulina* Lamarck, 1811

"A" zone with reduced pattern, "B" double spiral band, "C" aperture bluish to pale beige, "D" background from white to ivory, "E" orange-blue color separation "F" reduced pattern, "G" tiger pattern and "H" Filament channel open.

Live mollusk no photo available

Range and size

This is the Indian Ocean subspecies of *Oliva miniacea* (Röding, 1798). It is present on the East coast of Africa, Madagascar and Mauritius Is.. On this island it is sometimes syntopic with *Oliva mascarena* Tursch & Greifeneder, 1996. The adult size is from 50mm to 90m.

Iconography





Plate 4. *Oliva miniacea tremulina* Lamarck, 1811. Adult specimens from Southern Madagascar with size from 55.50mm to 74.80mm. The solid dark specimen is the forma *tenebrosa* Murrat, 1870, the others are the forma *nobilis* Reeve, 1850.

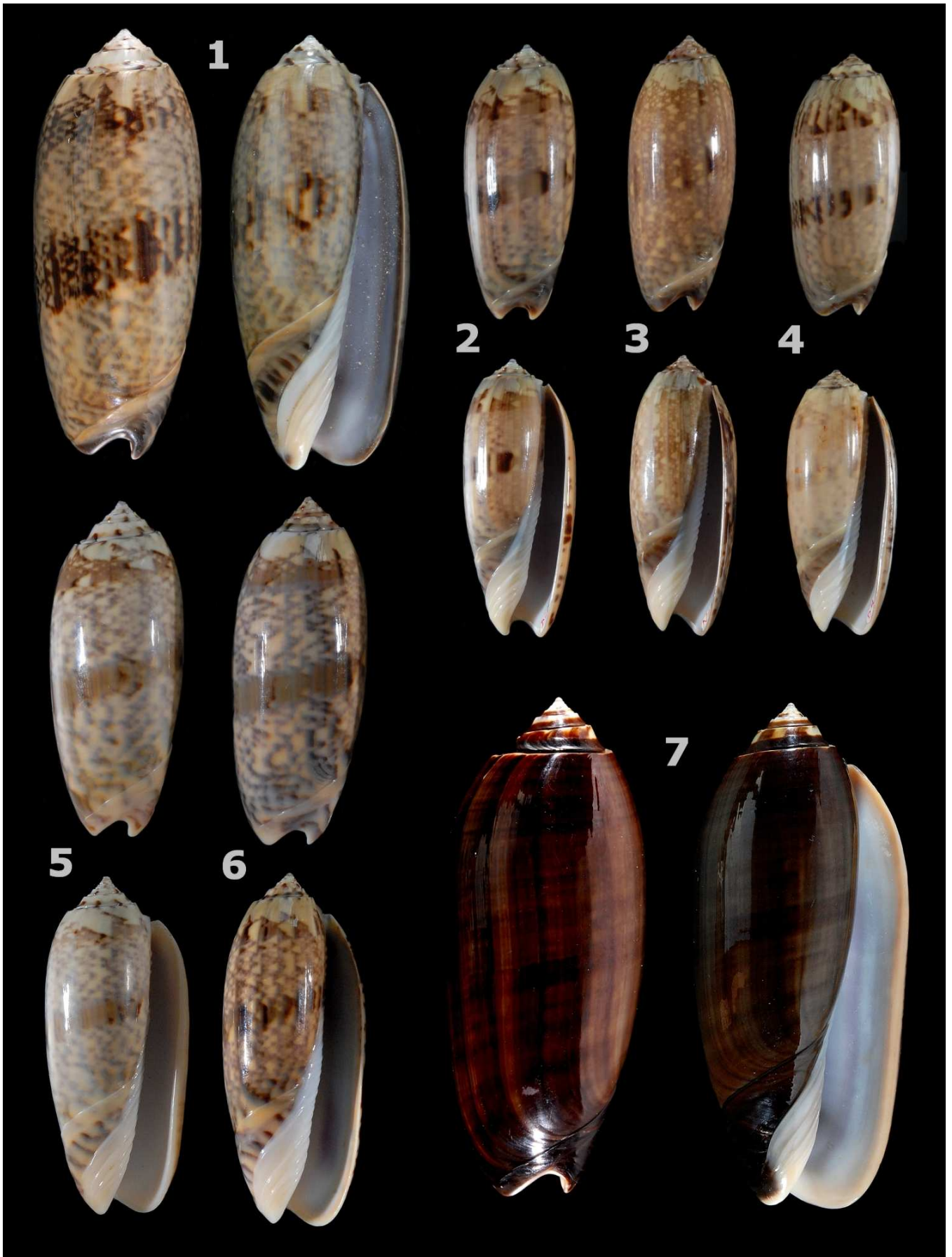


Plate 5. *Oliva miniacea tremulina* Lamarck, 1811. In this plate you can see the color variation of the aperture in specimens which come from different places. The lilac color can be present or not, sometimes forming only patches (n.6). You can also see the variation of the adults size. The shells n.2, 4, 5 and 7 are adults, the others are sub-adults.



Plate 6. *Oliva miniacea tremulina* Lamarck, 1811. Subadult specimen from South Madagascar, size 70.00mm.

Literature cited

- HUNON C., A. HOARAU & A.ROBIN, 2009. Olividae (Mollusca, Gastropoda) A complete survey of recent species of the genus *Oliva*. Xenophora, Paris, France.
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