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PROTOCONCH VARIATIONS IN TWO SPECIES OF *CASMARIA* H. ADAMS AND A. ADAMS, 1853 FROM THE HAWAIIAN ISLANDS (GASTROPODA: CASSIDAE) (H. MILNE EDWARDS, 1836)

Daniel R. Goodwin

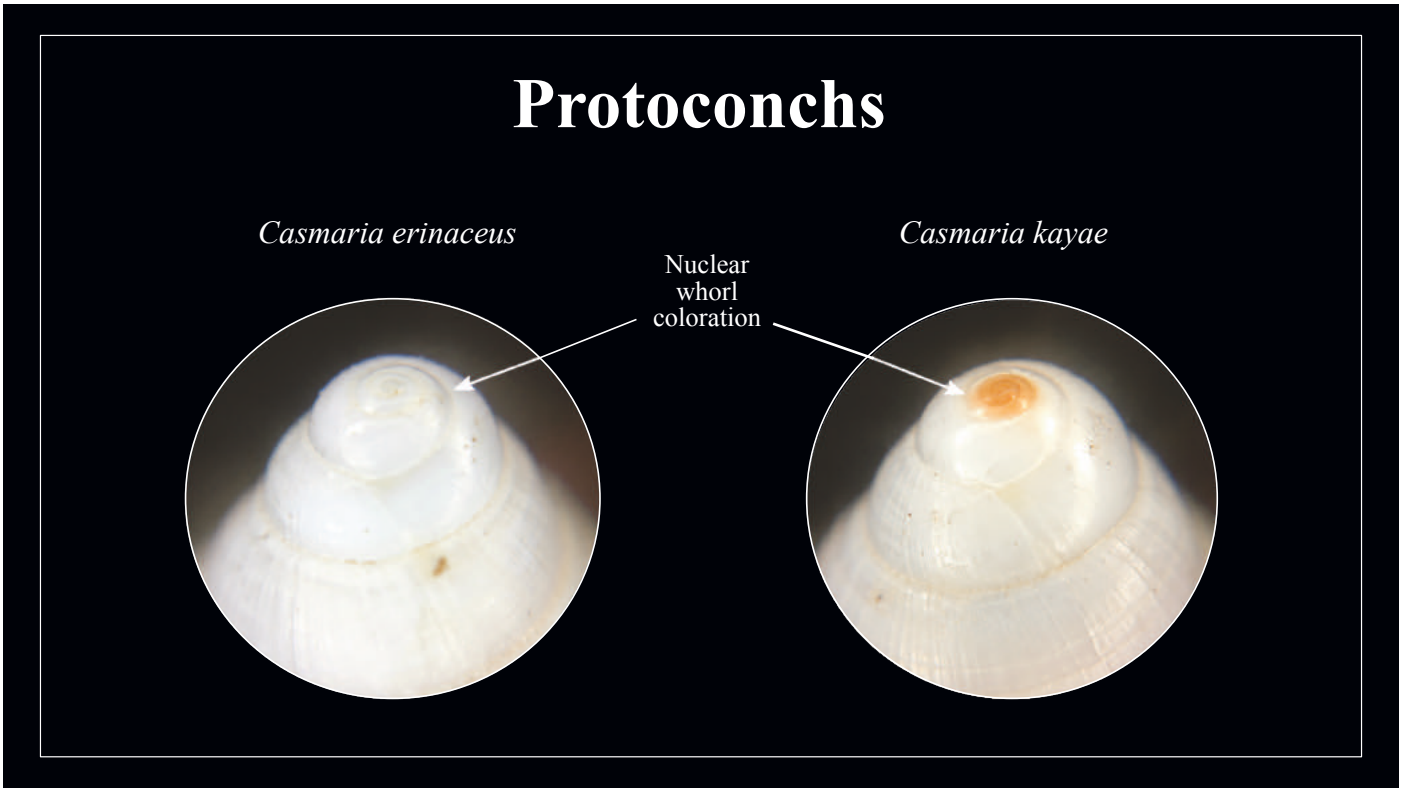
November, 2026

Protoconch variations in two species of *Casmaria* H. Adams and A. Adams, 1853 from the Hawaiian Islands (Gastropoda: Cassidae)

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In this article, we examine close up the protoconch of two species from Hawaiian waters.



SUBJECTS, MATERIAL AND METHODS

SYSTEMATICS

Family **Cassidae** Latreille, 1825
Genus ***Casmaria*** H. Adams and A. Adams, 1853
Type species ***Buccinum vibex*** Linnaeus, 1758

Species ***Casmaria erinaceus*** Linnaeus, 1758
(Plate 1)

SYNOPSIS
Protoconch smooth, translucent white, about 2 nuclear whorls, and about -1mm in diameter.

Species ***Casmaria kayae***
Buijse, Dekker, and Verbinnen, 2013
(Plate 1)

SYNOPSIS
Protoconch smooth, translucent white and or rust color; specimen one with rust color and diameter of

-1 mm; specimen two with very little coloration and diameter of -1 mm.

RESULTS

Clearly distinct species. Sculpture and diameter of the protoconchs are identical except for the coloration.

CONCLUSION

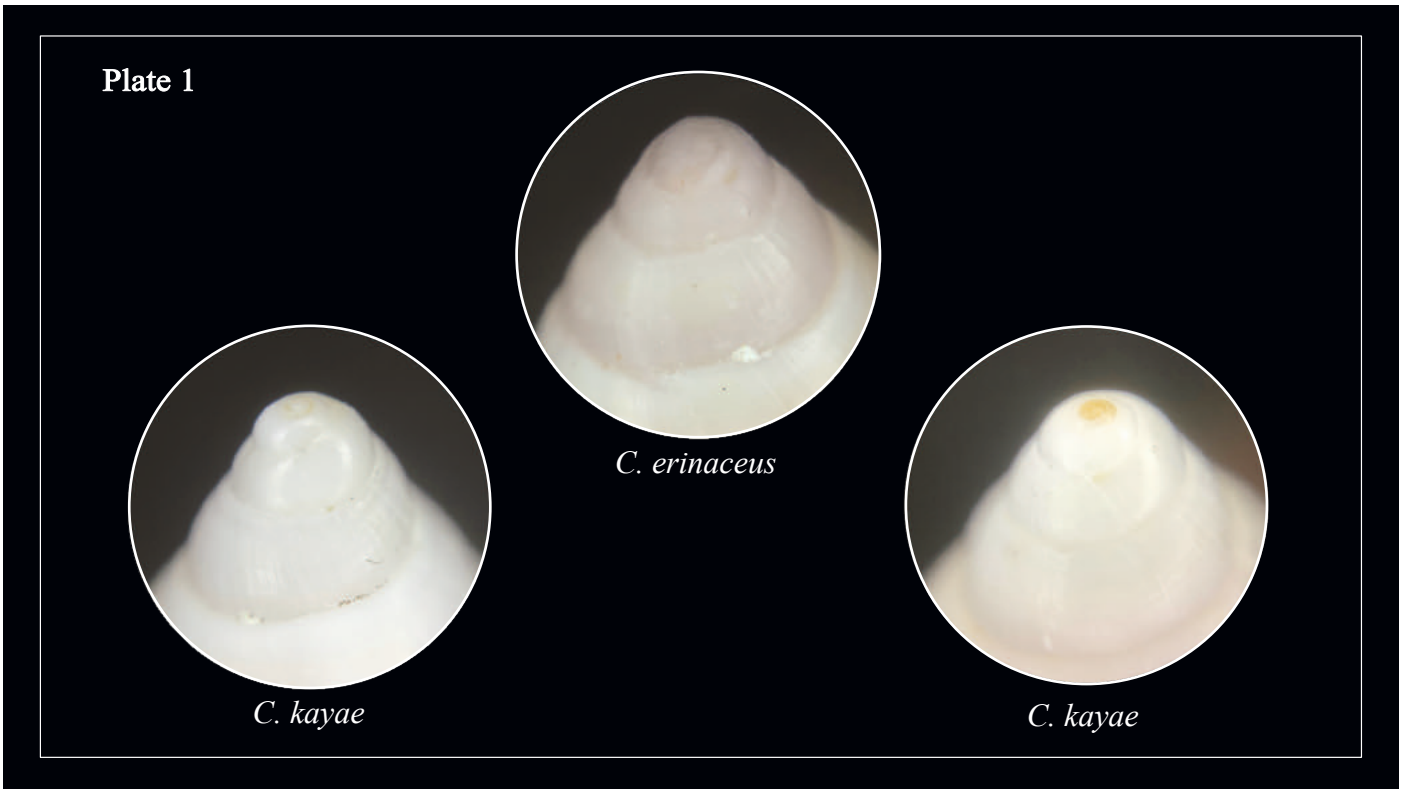
I can see clearly why the separation in species. The protoconch tells it all. I am holding the species *C. vibex* (Linnaeus, 1758) separate from *C. erinaceu*s until more research is done to validate lumping them together.

REFERENCES

Buijse J.A., Dekker H. & Verbinnen G.
2013 On the identity of *Casmaria* species (Gastropoda, Cassidae), with descriptions of two new species. – Acta Conchyliorum 14: 3-93.

Linnaeus, C.
1758 Systema Naturae per regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis. Tomus I. Editio decima, reformata. Laurentii Salvii. Holmiae [Stockholm]. [iii] + 824 pp.

Verbinnen G., Segers L., Swinnen F., Kreipl K. & Monsecour D.
2016 Cassidae. An amazing family of seashells. Harxheim: ConchBooks. 251 pp.



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ISSN 1656-4650