

**The white, mainly deep-water
calliostomatids
(Mollusca: Gastropoda)
in the East Atlantic waters**

an overview by Frank Nolf & Steve Hubrecht

The genus *Calliostoma* is represented by about 25 different species in Mediterranean and E Atlantic waters from Iceland to Angola.

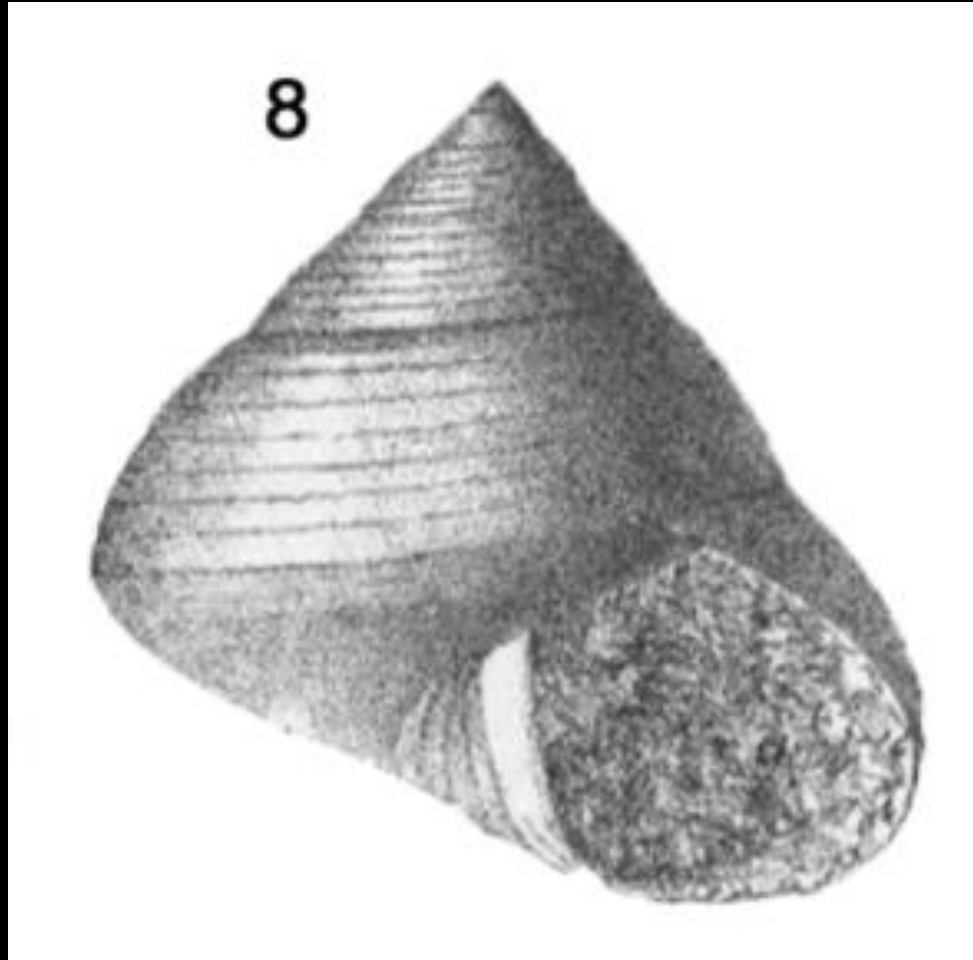
Recently, four new species were described by Nolf & Hubrecht (2022a, 2022b, 2022c).

At least 16 of them are white deep-water species, most of them only known from expeditions.

In fact, all calliostomatids in the E Atlantic remain today placed in the genus *Calliostoma*, historically based on shell morphology.

There is relatively little information about deep water *Calliostoma* from the eastern Atlantic. The only major works in that field are certainly the ones of Dautzenberg (1889, 1925, 1927), Dautzenberg & H. Fischer (1896, 1897) and Locard (1897-98).

This presentation shows most of the 16 different white deep-water species and 2 white forms of common rock dwellers in shallow waters.



***Trochus bullatus* Philippi, 1844**
Original illustration. H. 34 mm D. 34 mm.

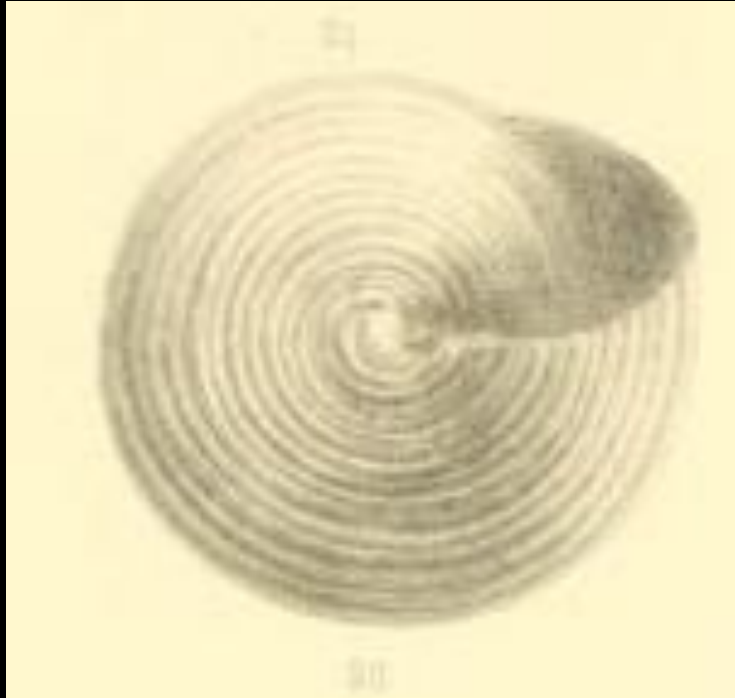


***Calliostoma caroli* Dautzenberg, 1927**, original figure pl. 6, figs 32-34
(D. 25 mm)



***Calliostoma cyrtoida* Gofas & Hoffman, 2020**

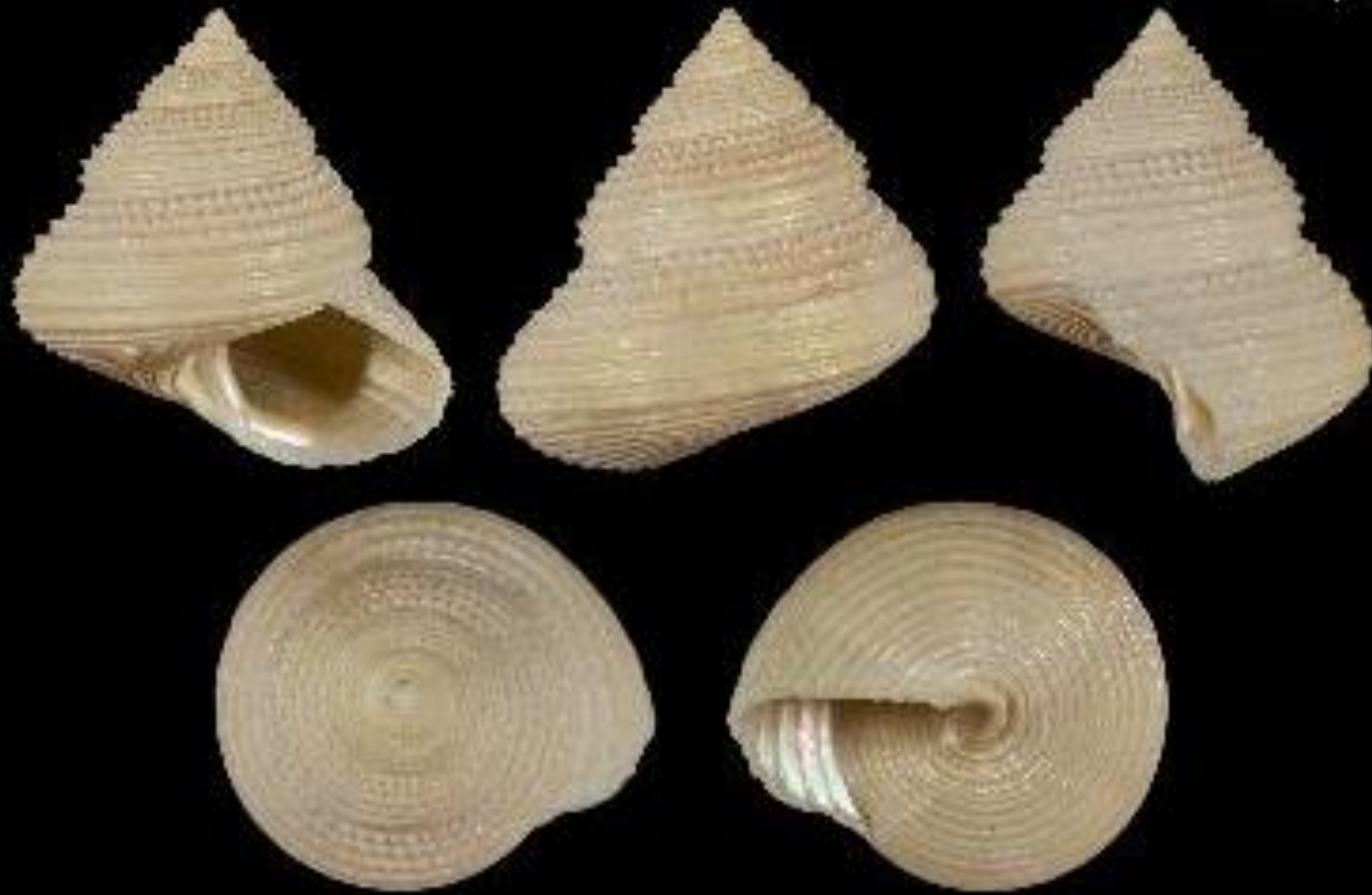
Original figure of holotype. Hyères Seamount, NE Atlantic.
31°19'5.9916" N/ 28°36'00" W. Depth:1060 m. 18 January 1993.
H. 6.7 mm D. 6.1 mm.



***Zizyphinus cleopatra* Locard, 1896**

Original figure.

H. 27 mm D. 26 mm.



***Zizyphinus cleopatra* Locard, 1896**

Off Western Sahara. 25°39'0" N/ 16°06'00" W. Depth: 1056-1056 m.
9 July 1883. 24 mm. Syntypes MNHN-IM-2000-31095



***Zizyphinus cleopatra* Locard, 1896**

Rockall Trough, off NW Ireland. 55°43' N/ 16°11' W. Dredged by research vessel at a depth of 704 m. June 2004. H. 18.52 mm D. 19.07 mm.
Coll. S. Hubrecht.



***Calliostoma granulatum* var. *lactea* Jeffreys, 1865.**

St. George's Channel, SW England, UK. Trawled by Belgian fishermen.

1975. H. 32.42 mm D. 33.30 mm. Coll. F. Nolf.



***Calliostoma granulatum* var. *lactea* Jeffreys, 1865.**

South of La Rochelle, W France, Bay of Biscay. Trawled by Belgian fishermen at a depth of 120 m. June 2008.

H. 18.68 mm D. 17.85 mm. Coll. F. Nolf.



***Calliostoma fernandesi* Rolán & Monteiro, 2006**

E of Boavista, Cape Verde Islands. In lobster trap at a depth of 150 m.

H. 28.20 mm D. 25.44 mm. Coll. S. Hubrecht.



***Calliostoma freiwaldi* Gofas & Hoffman, 2020**

Hyères Seamount. 31.387° N/ 27.892° W.

Dredged at a depth of 480 m. 16 January 1993



***Calliostoma grimaldii* Dautzenberg & H. Fischer, 1896**

Irving Seamount, NE Atlantic. 32.347° N/ 28.262° W.

H. 21.0 mm D. 20.0 mm (Gofas & Hoffman, 2020)



***Calliostoma heugteni* Vilvens & Swinnen, 2003**

1500 km W of Canary Islands. 30°06.7' N/ 28°27.0' W. Dredged at a depth of 320 m.
June 1998. H. 6.30 mm D. 5.39 mm. Coll. S. Hubrecht.



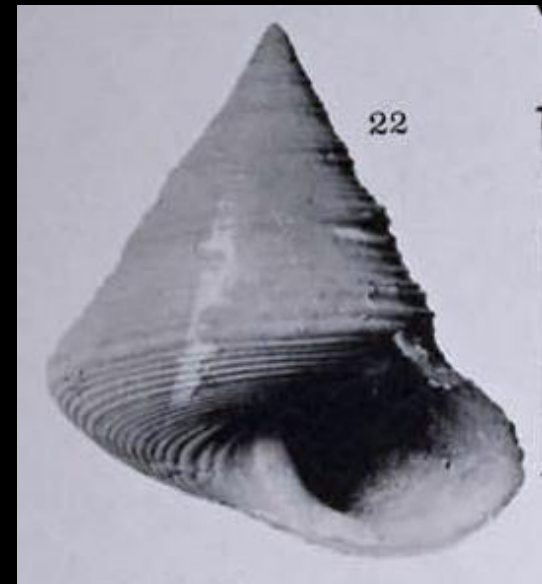
***Calliostoma hirondellei* Dautzenberg & H. Fischer, 1896**
Tenerife, Canary Islands. Trawled by fishermen at a depth of 250 m.
July 1993. 16.8 mm. Coll. S. Hubrecht.



***Calliostoma hirondellei* Dautzenberg & H. Fischer, 1896**

S of La Rochelle, W France, Bay of Biscay. Trawled by Belgian fishermen at a depth of 122 m. June 2008. H. 33.22 mm D. 31.82 mm. Coll. F. Nolf.

Left: holotype. H. 32 mm L. 27 mm. Pl. XXI, fig.5. In: Campagnes scientifiques de S.A. le prince Albert I^{er} de Monaco. Dragages effectuées par l'Hirondelle et par la Princesse-Alice 1888-1895. 1. Mollusques Gastropodes. *Extrait des Mémoires de la Société Zoologique de France*, by Dautzenberg, Ph. & Fischer, H., 1896.





***Calliostoma leptophyma* Dautzenberg & H. Fischer, 1896**
Offshore Biarritz, W France, Bay of Biscay. 44°00' N/ 04°20' W.
Dredged by research vessel at a depth of 600-700 m.
H. 12.67 mm D. 13.84 mm. Coll. S. Hubrecht.



***Calliostoma lithocolletum* Dautzenberg, 1925**

Seine Seamount, off Madeira. 33°47' N/ 14°21' W.

Trawled at a depth of 185 m. 26 July 1905. H. 24 mm D. 22 mm.

Holotype. Musée Océanographique de Monaco.



***Calliostoma maurolici* (Seguenza, 1876)**
Rockall Trough, W of Ireland, UK. 56°05' N/
15°08' W. Dredged at a depth of 587 m. 2006.
H. 14.6 mm D. 18.57 mm. Coll. F. Nolf.



***Calliostoma maurolici* (Seguenza, 1876)**

Rockall Trough, NE Atlantic, W Ireland, UK. 55.50017° N/ 15.79890° W.

Collected by RV Pelagia. Depth: 587 m.

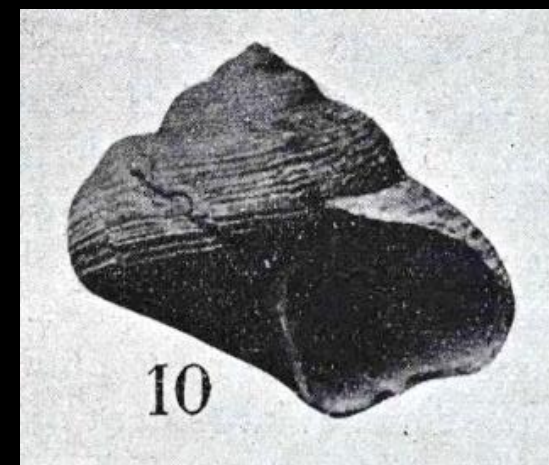
H. 15.20 mm D. 18.56 mm. Coll. S. Hubrecht.



***Calliostoma milneedwardsi* (Locard, 1898)**

Off Nouakchott, Mauritania, NW Africa. Trawled by fishermen
at a depth of 500-600 m. March 1991.

H. 27.12 mm D. 24.69 mm. Coll. S. Hubrecht.



***Calliostoma normani* (Dautzenberg & H. Fischer, 1897)**

Off Flores, Azores Archipelago. 39°18' N/ 30°40' W. Dredged at a depth of 1600 m; Left: H. 30 mm. D. 32 mm;
 Right: Pl. III, fig. 12. In: Campagnes scientifiques de S.A. le prince de Monaco. Dragages effectuées par
 l'Hirondelle et par la Princesse-Alice 1888-1896. *Extrait des Mémoires de la Société Zoologique de France*,
 X, by Dautzenberg, Ph. & Fischer, H., 1897.



***Calliostoma occidentale* (Mighels & C.B. Adams, 1842)**

North Central Brown's Bank, Nova Scotia, E Canada. In sand and gravel.

Dredged at a depth of 86 m. 1994.

H. 13.86 mm. D. 13.96 mm. Coll. F. Nolf.



***Calliostoma triporcatum* (Locard, 1898)**

Off Western Sahara. 20°43'59.988" N/ 18°07'0.0156"

W. Dredged at a depth of 1445 m. 14 July 1883.

H. 27 mm. D. 26 mm. Syntype. MNHN.



***Calliostoma zizyhinum* var. *lyonsii* (Leach, 1850)**

South of the Sill, Abbey Road, County Down, North Ireland. At low tide on submerged stones encrusted with weed. 27 September 1975.

H. 22.58 mm. D. 24.27 mm. Coll. F. Nolf.



***Calliostoma zizyhinum* var. *lyonsii* (Leach, 1850)**

Off St. George's Channel, SW England, UK. Trawled by Belgian fishermen. On sandy-rock bottom. 1975.

H. 36.12 mm D. 36.67 mm. Coll. F. Nolf.



***Calliostoma zizyhinum* var. *lyonsii* (Leach, 1850)**

Off St. George's Channel, SW England, UK. Trawled by Belgian fishermen. On sandy-rock bottom. 1975.

38.50 mm D. 41.03 mm. Coll. F. Nolf.