

The West African *Jaton* species (MURICIDAE)

Speaker: Frank Nolf

... a display of all known species
from the West African waters
including some doubtful
specimens from the collections of
Steve Hubrecht (SH),
Frank Nolf (FN) and
Johan Verstraeten (JV)

Jaton decussatus (Gmelin, 1791)



Reeve, 1845. *Conchologia Iconica: Or, Illustrations of the Shells of Mollusious Animals*, vol. III, Pl. XXVII, figs 121-122

Reeve, 1845. *Conchologia Iconica: Or, Illustrations of the Shells of Molluscous Animals*, vol. III, Pl. XXVII, fig. 121

Shell somewhat **pyriformly ovate**, smooth, or peculiarly **scabrous**, contracted at the lower part; **spire short**, sharp; whorls depressly cavernous at the upper part, three varicose, varices laminated, interstices between the varices obtusely ribbed, with a large rounded tubercle; white, often stained and variegated with blackish brown; canal rather short, attenuated. Hab. Island of Goree, West Africa (dredged from sandy mud at a depth of about thirty fathoms).



à M. le Professeur Vallois
Très sincère et respectueux hommage

E. Fischer

LES MOLLUSQUES D'ADANSON

par E. FISCHER-PIETTE

avec la collaboration de

P.-H. FISCHER, L. GERMAIN et P. PALLARY

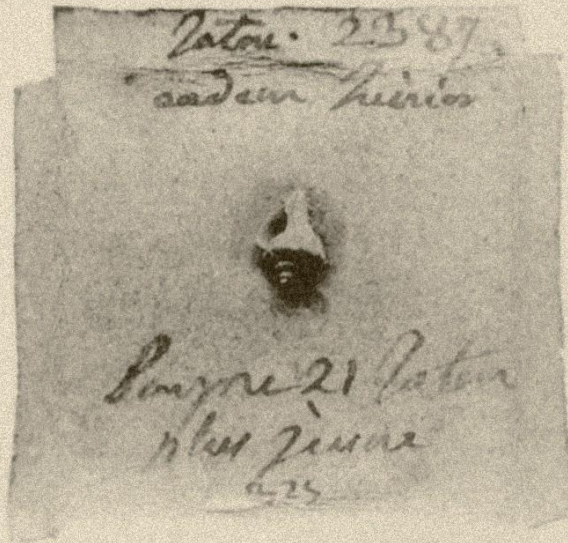


RENNES

IMPRIMERIE COMMERCIALE DE L'OUEST-ECLAIR

38, rue du Pré-Botté, 38

1942

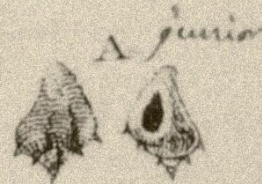


1

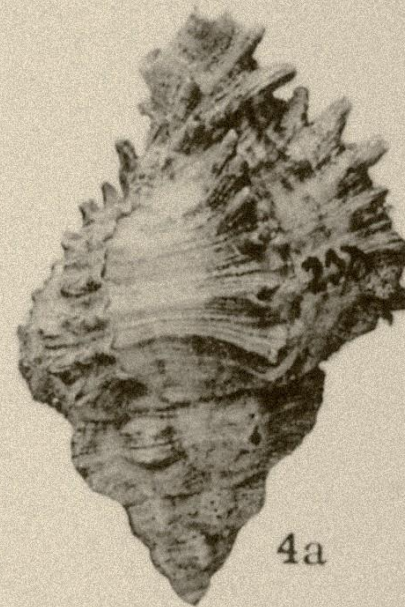
21. A



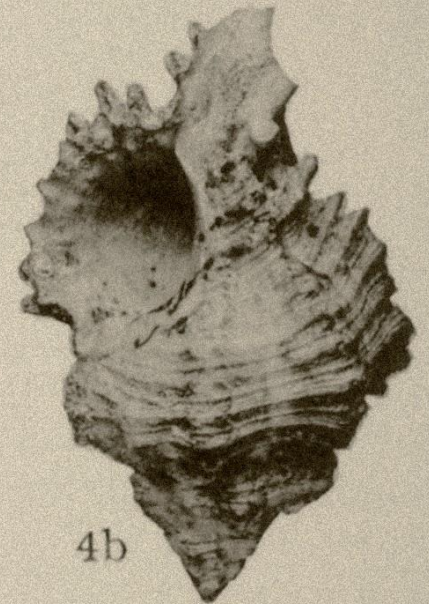
2



3



4a



4b

Le Jatou: *Tritonalia decussata* Gmelin
(Pl. VII, figs 1, 2 & 3)

Jaton decussatus (Gmelin, 1791)



Almadies, Senegal – on rocks -
dived at a depth of 20 m – 44.66 mm - JV

Jaton decussatus (Gmelin, 1791)



Almadies, Senegal – on rocks -
dived at a depth of 20 m – 45.31 mm - JV

Jaton decussatus (Gmelin, 1791)



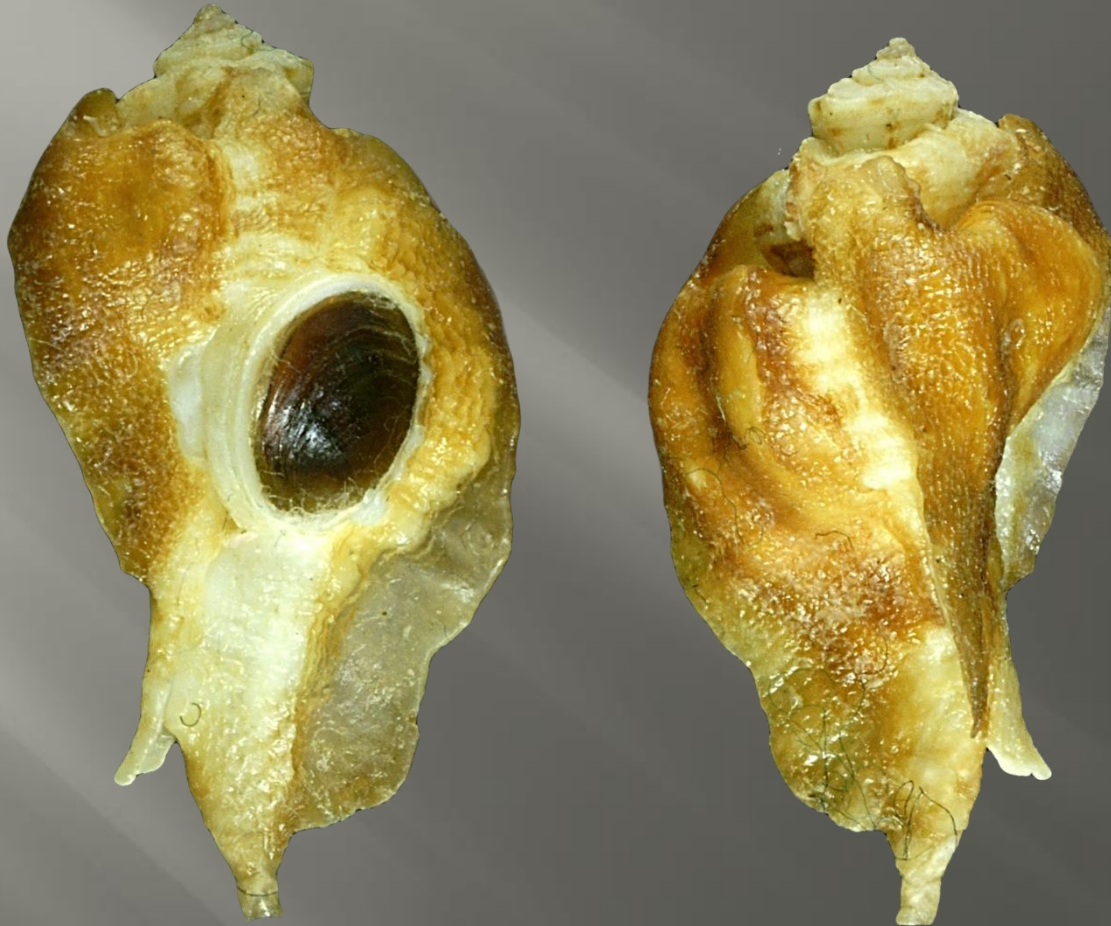
Gorée, Senegal - trawled by fishermen at a depth
of 10-15 m - 1986 - 40.65 mm - SH

Jaton decussatus (Gmelin, 1791)



Gorée, Senegal - trawled by fishermen at a depth of
10-15 m - 1986 - 46.83 mm - SH

Jaton decussatus (Gmelin, 1791)



Ivory Coast – trawled by fishermen – 1975 –
30.94 mm - FN

Jaton decussatus (Gmelin, 1791)



Anse Bernard, Dakar, Senegal – snorkeled at
a depth of 1.5 m - May 1976 – 37.26 mm - FN

Jaton decussatus (Gmelin, 1791)



Anse Bernard, Dakar, Senegal – snorkeled at
a depth of 1.5 m - May 1976 – 36.87 mm - FN

Jaton decussatus (Gmelin, 1791)



Anse Bernard, Dakar, Senegal – snorkeled at a
depth of 1.5 m - May 1976 – 43.83 mm - FN

Jaton decussatus (Gmelin, 1791)



near Dakar, Senegal -
dived from a rocky bottom - 39.29 mm - JV

Jaton decussatus (Gmelin, 1791)



Gorée, Dakar, Senegal - trawled by fishermen at a depth of 20-30 m - 1992 - 32.94 mm - SH

Jaton decussatus (Gmelin, 1791)



Gorée, Dakar, Senegal - trawled by fishermen at a depth of 20-30 m - 1992 – 41.17 mm - SH

Jaton decussatus (Gmelin, 1791)



Gorée, Dakar, Senegal - trawled by fishermen at a depth of 15-25 m - 1988 - 39.20 mm - SH

Jaton cf. *decussatus* (Gmelin,
1791)



Gorée, Dakar, Senegal - trawled by fishermen at a
depth of 15-25 m – 1988 - 42.86 mm - SH

Jaton decussatus (Gmelin, 1791)



Cap Rouge, Senegal - trawled by fishermen at a depth of 30 m – November 1985 - 47.85 mm - SH

Jaton decussatus (Gmelin, 1791)



Gorée, Dakar, Senegal - trawled by fishermen at a depth of 15-20 m - 1984 - 34.02 mm - SH

Jaton decussatus (Gmelin, 1791)



Gorée, Dakar, Senegal - trawled by fishermen at a depth of 15-20 m - 1984 - 32.79 mm - SH

Jaton decussatus (Gmelin, 1791)



off Ile des Madeleines, Dakar, Senegal - in muddy
area at low tide – 6 April 1998 - 39.81 mm - SH

Jaton decussatus (Gmelin, 1791)



Gorée, Dakar, Senegal - trawled at a depth of
15-20 m – on rocky bottom - 1984 - 32.27 mm - SH

Jaton decussatus (Gmelin, 1791)



Gorée, Dakar, Senegal - trawled at a depth of
15-20 m – on rocky bottom - 1984 - 44.08 mm - SH

Jaton decussatus (Gmelin, 1791)



Gorée, Dakar, Senegal - trawled by fishermen at a depth of 20 m - 1981 - 39.69 mm - SH

Jaton decussatus (Gmelin, 1791)



Gorée, Dakar, Senegal - trawled by fishermen at a depth of 20 m - 1981 - 42.99 mm - SH

Jaton cf. *decussatus* (Gmelin, 1791)



off Abidjan, Ivory Coast - trawled by fishermen -
1978 - 33.41 mm - FN

Jaton cf. *decussatus* (Gmelin, 1791)



off Abidjan, Ivory Coast - trawled by
fishermen - 1978 - 38.88 mm - FN

Jaton cf. decussatus (Gmelin, 1791)



near Dakar, Senegal -
dived from a rocky bottom - 39.29 mm - JV

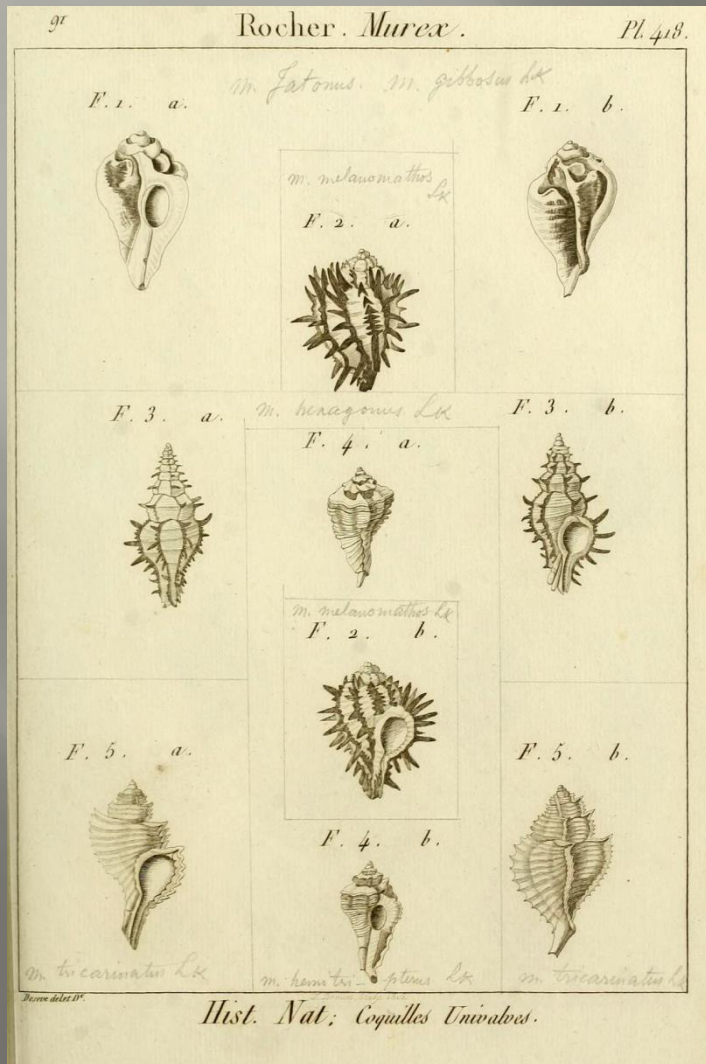
Jaton decussatus (Gmelin, 1791)
juvenile specimen



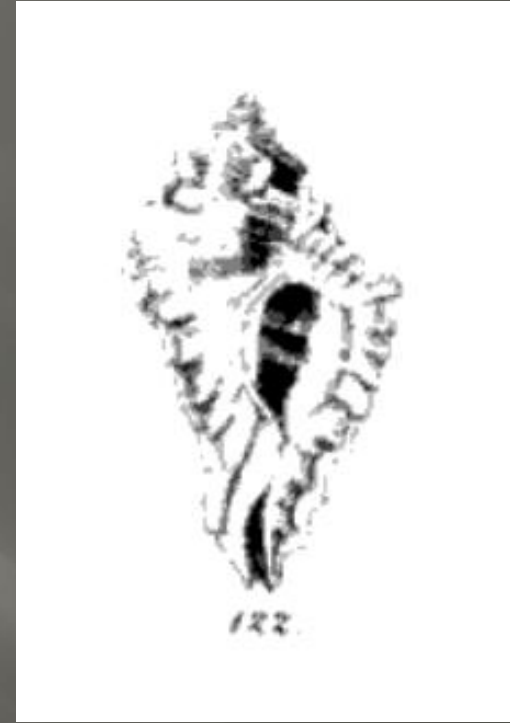
Dakar, Senegal - on rock -
dived at a depth of 5 m - 24.41 mm - FN

Jaton hemitripterus (Lamarck, 1816)

Histoire Naturelle des Animaux sans Vertèbres,
Pl. 418, figs 4a - b



Jaton decussatus (Gmelin, 1791)



Jaton hemitripteris (Lamarck, 1816)

Reeve, 1845. *Conchologia Iconica: Or, Illustrations of the Shells of Molluscous Animals*, vol. III, Pl. XXVII, figs 121-122



***Jaton hemitripterus* (Lamarck, 1816)**

Reeve, 1845. *Conchologia Iconica: Or, Illustrations of the Shells of Molluscous Animals*, vol. III, Pl. XXVII, fig. 122

Shell **triangularly** pyriform gradually attenuated towards the base, thick, transversely obtusely ribbed, with a large tubercle between the varices, spire short, **angularly turreted**; whorls angularly depressed at the upper part, three-varicose, varices rather solid, obtusely ribbed; whitish, variegated with flesh-tinted brown; canal rather short.
Hab. ?



Jaton hemitripterus (Lamarck, 1816)



Western Sahara, Morocco - 35.46 mm - JV

Jaton hemitripterus (Lamarck, 1816)



Western Sahara, Morocco - 39.80 mm - JV

Jaton hemitripterus (Lamarck, 1816)



Bay of Dakhla, Western Sahara, Morocco – at low tide on rocks in small bays – 21.51 mm - JV

Jaton hemitripterus (Lamarck, 1816)



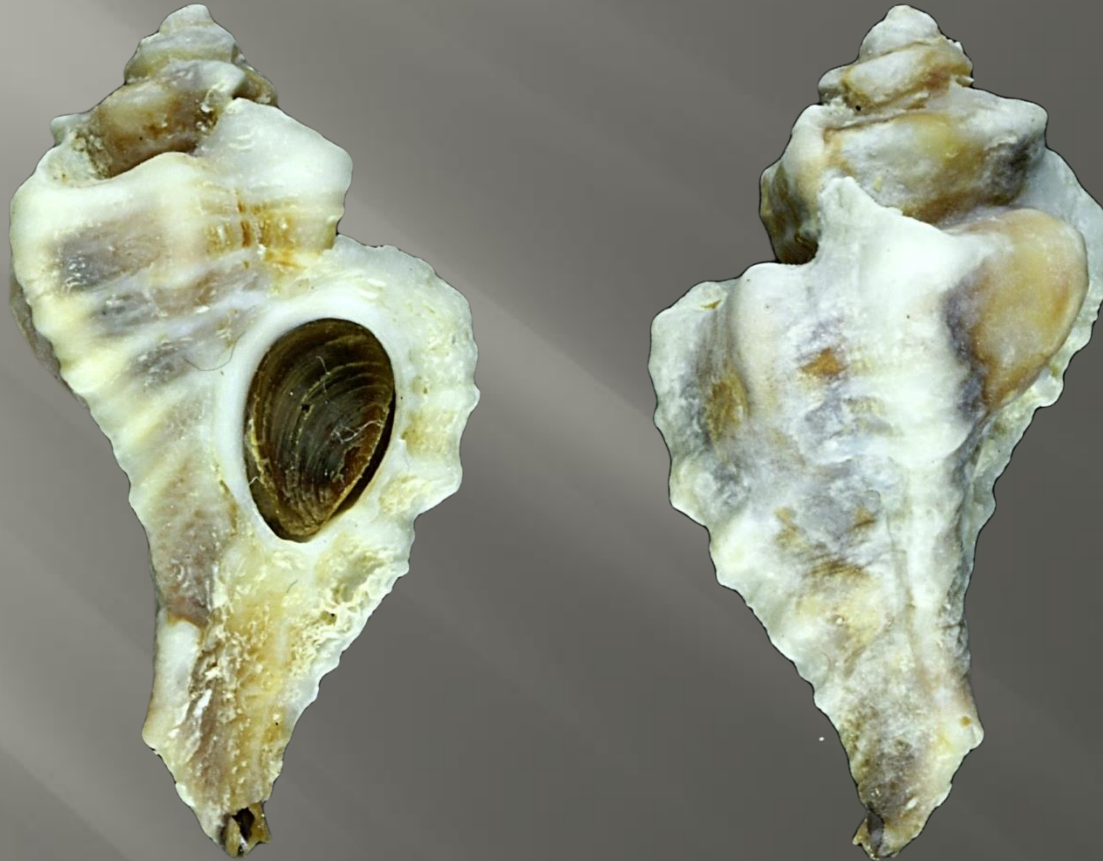
Bay of Dakhla, Western Sahara, Morocco - at low tide on rocks in small bays - 24.42 mm - JV

Jaton hemitripterus (Lamarck, 1816)



Bay of Dakhla, Western Sahara, Morocco - at low tide on rocks in small bays - 31.48 mm - JV

Jaton hemitripterus (Lamarck, 1816)



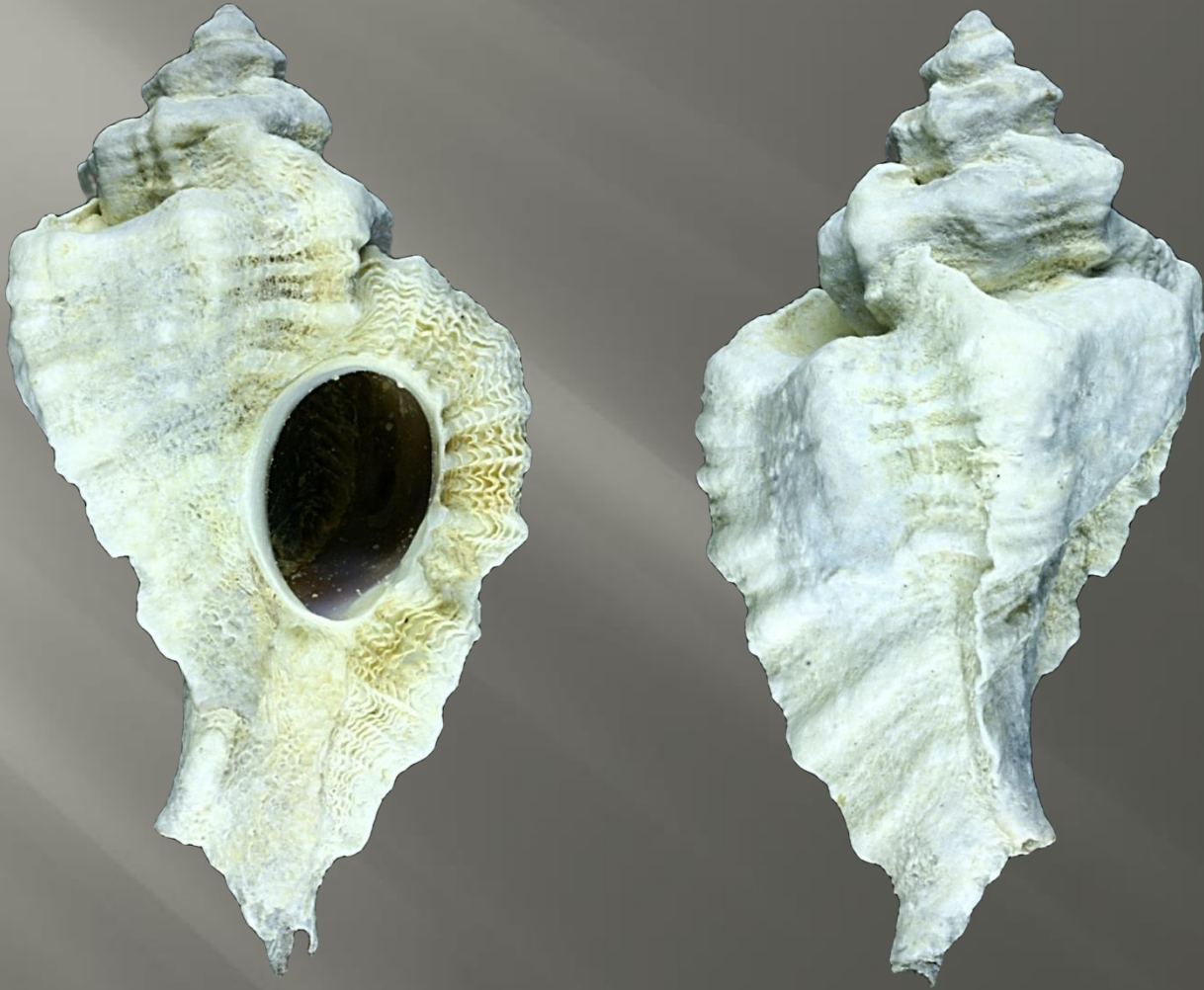
Bay of Dakhla, Western Sahara, Morocco –
at low tide on rocks in small bays - 32.77 mm - JV

Jaton hemitripterus (Lamarck, 1816)



Bay of Dakhla, Western Sahara, Morocco -
February 2019 - 39.29 mm - JV

Jaton hemitripterus (Lamarck, 1816)



Bay of Dakhla, Western Sahara, Morocco -
February 2019 - 39.29 mm - JV

Jaton hemitripterus (Lamarck, 1816)



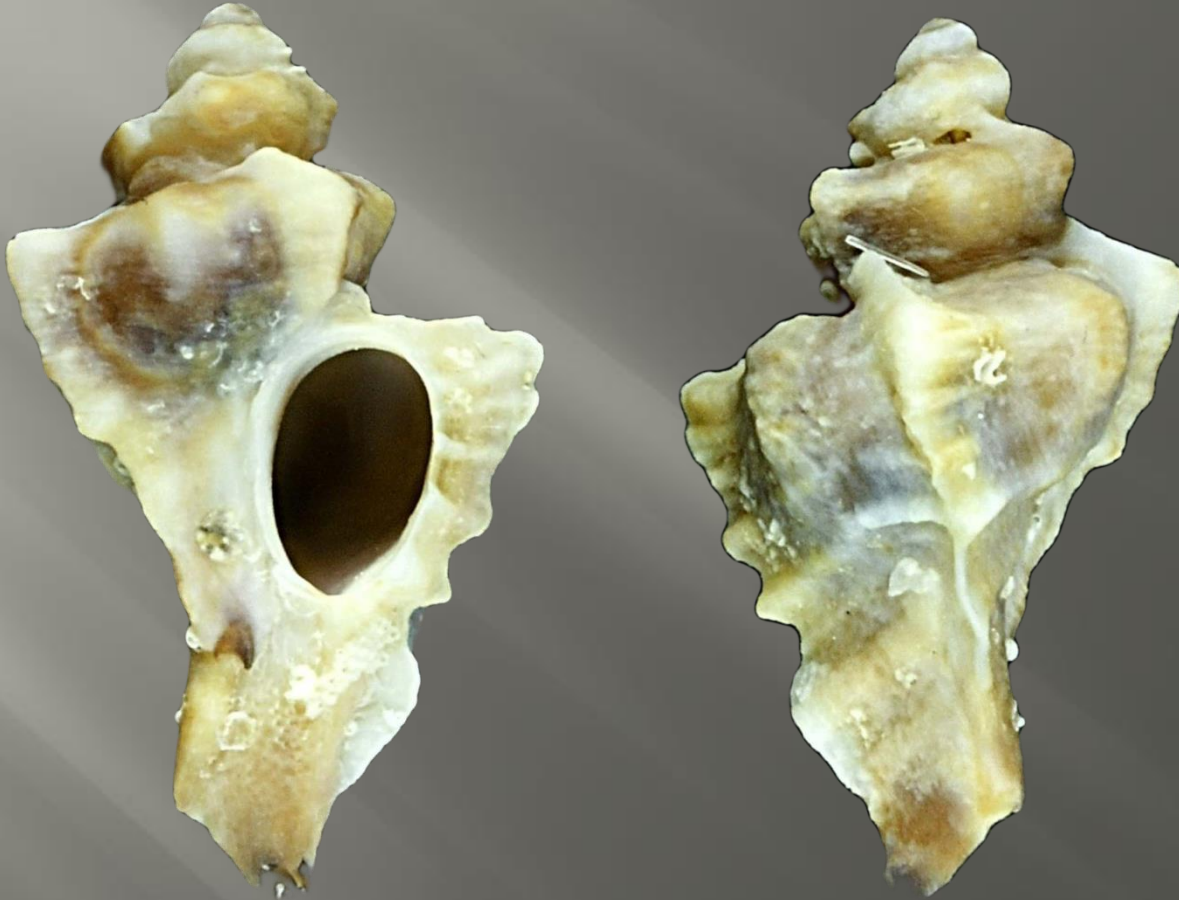
Dakhla, Western Sahara, Morocco - dived at a
depth of 3 m - 2012 – 37.30 mm - FN

Jaton hemitripterus (Lamarck, 1816)



Bouthala, Bay of Dakhla, Western Sahara, Morocco - on top of large rock at extreme low tide - 29.30 mm - SH

Jaton hemitripterus (Lamarck, 1816)



Bouthala, Bay of Dakhla, Western Sahara, Morocco -
on top of large rock at extreme low tide - 29.79 mm - SH

Jaton hemitripterus (Lamarck, 1816)



Bouthala, Bay of Dakhla, Western Sahara, Morocco - on top of large rock at extreme low tide - 32.96 mm - SH

Jaton hemitripterus (Lamarck, 1816)



Dakhla, Western Sahara - under stone at extreme
low tide - February 2011 - 37.62 mm - SH

Jaton hemitripterus (Lamarck, 1816)



Dakhla, Western Sahara - trawled by shrimpers at a depth of 25-30 m - 2011 - 32.93 mm - SH

Jaton hemitripterus (Lamarck, 1816)

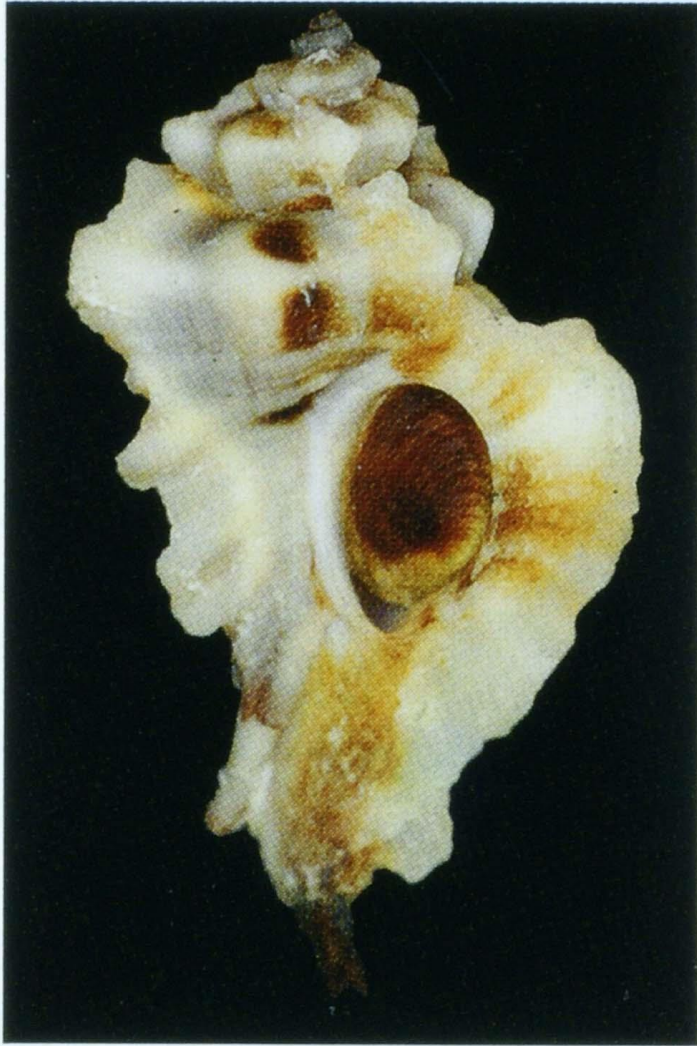


Bayside of Dakhla Town, Western Sahara - 23°41'58.1" N/
15°55'40.8" W - on rock on mud flat - August 2015 - 36.45 mm -
SH

Jaton hemitripterus (Lamarck, 1816)



off Mauritania, NW Africa – trawled by fishermen
at a depth of 35 m - 38.85 mm - FN



Jaton westsahariensis
Franchi, 2007 =
junior synonym of
Jaton hemitripterus
(Lamarck, 1816)
paratype 2 – 30.9 mm -
Malacologia, 55: 4

J. westsahariensis
30,9 mm - paratipo 2



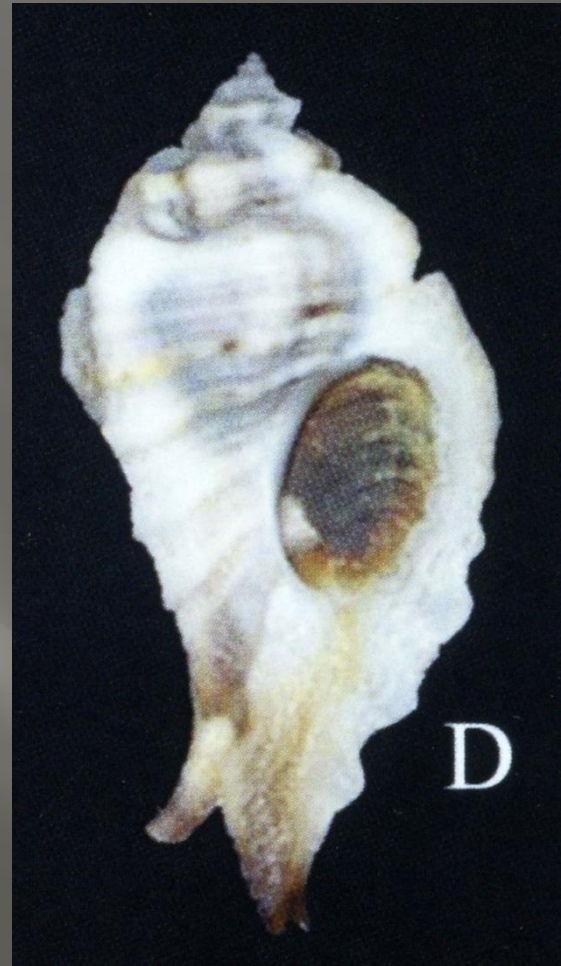
J. westsahariensis
34,2 mm - paratipo 1

junior synonym of Jaton hemitripteris (Lamarck, 1816)
paratype 1 - 34.2 mm - Malacologia, 55: 4



Jatón westsahariensis sp.n. - olotipo 17 mm

= *junior synonym of Jatón hemitripterus* (Lamarck, 1816)
holotype - 38.0 mm - *Malacologia*, 55: 3



Jaton hemitripterus (Lamarck, 1816)
Dakhla, Western Sahara - 38.0 mm
Fig. 1, C-D in The Festivus, vol.51(3): 228

Jaton rikae Petuch & Berschauer, 2019

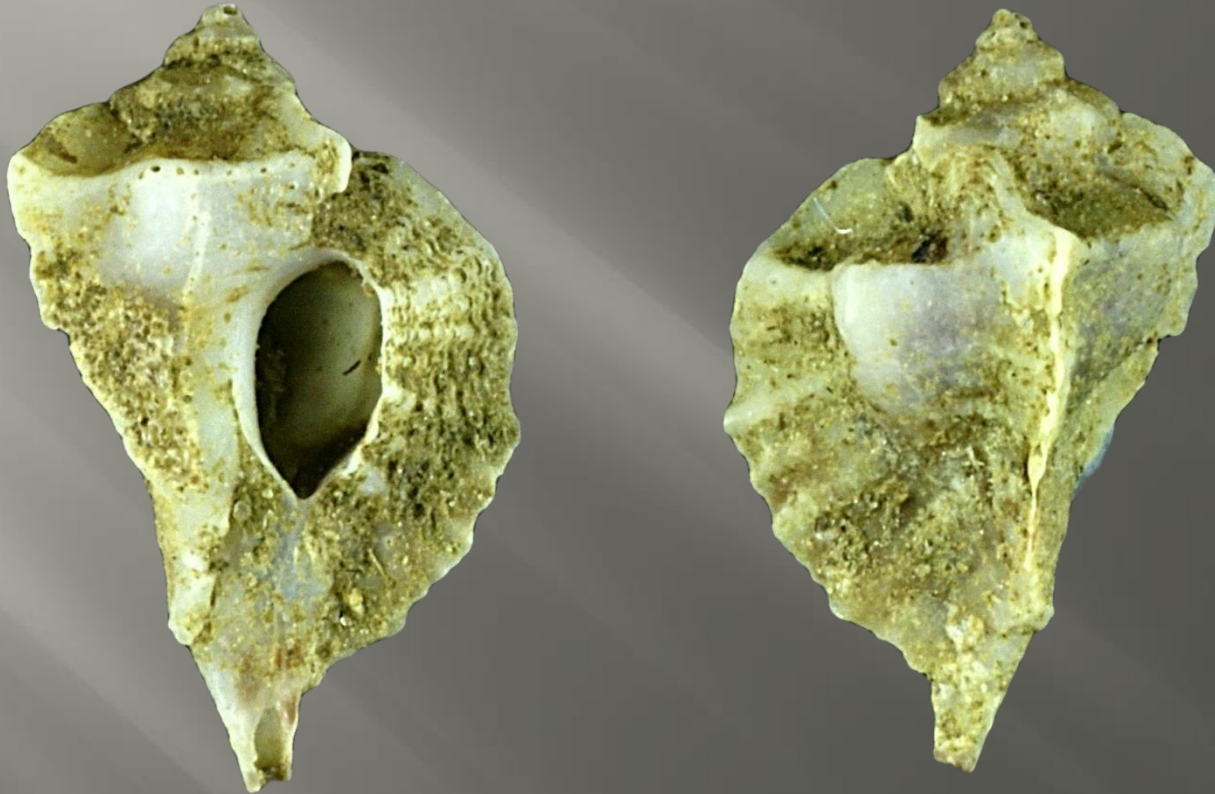


syntype of
Murex hemitripterus
MNHN - 2000-1511 -
27.7 mm



A, B: off Gunjur, Gambia - collected from 'fishermen's
nets in 3-5 m depth' - holotype - 18.7 mm
Fig. 1, A-B in *The Festivus*, vol.51(3): 228

Jaton rikae Petuch & Berschauer, 2019



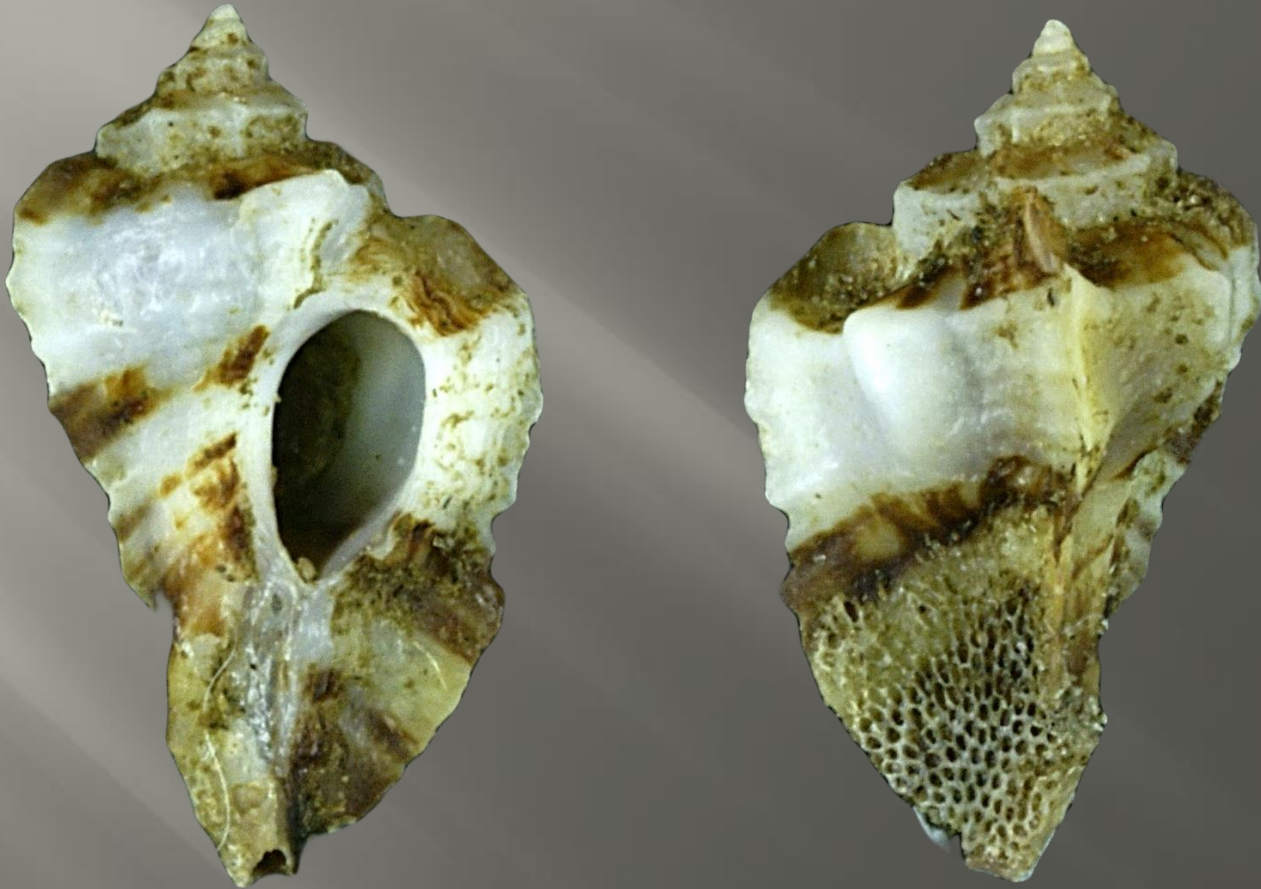
Gunjur, Gambia - collected from the cracks in a fishing boat - February 2019 - 13.27 mm - JV

Jaton rika Petuch & Berschauer, 2019

Gunjur, Gambia - collected
from the cracks in a fishing
boat parked on the beach -
February 2019 - 14.27 mm
- JV

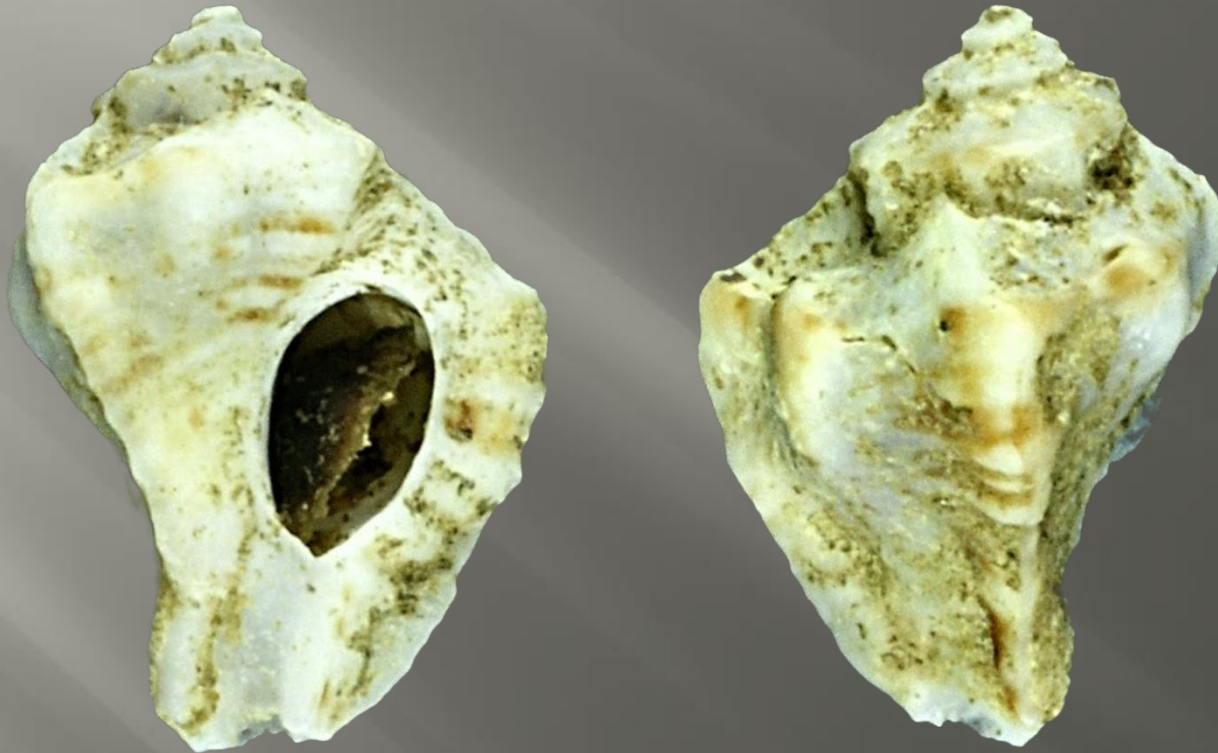


Jaton rikae Petuch & Berschauer, 2019



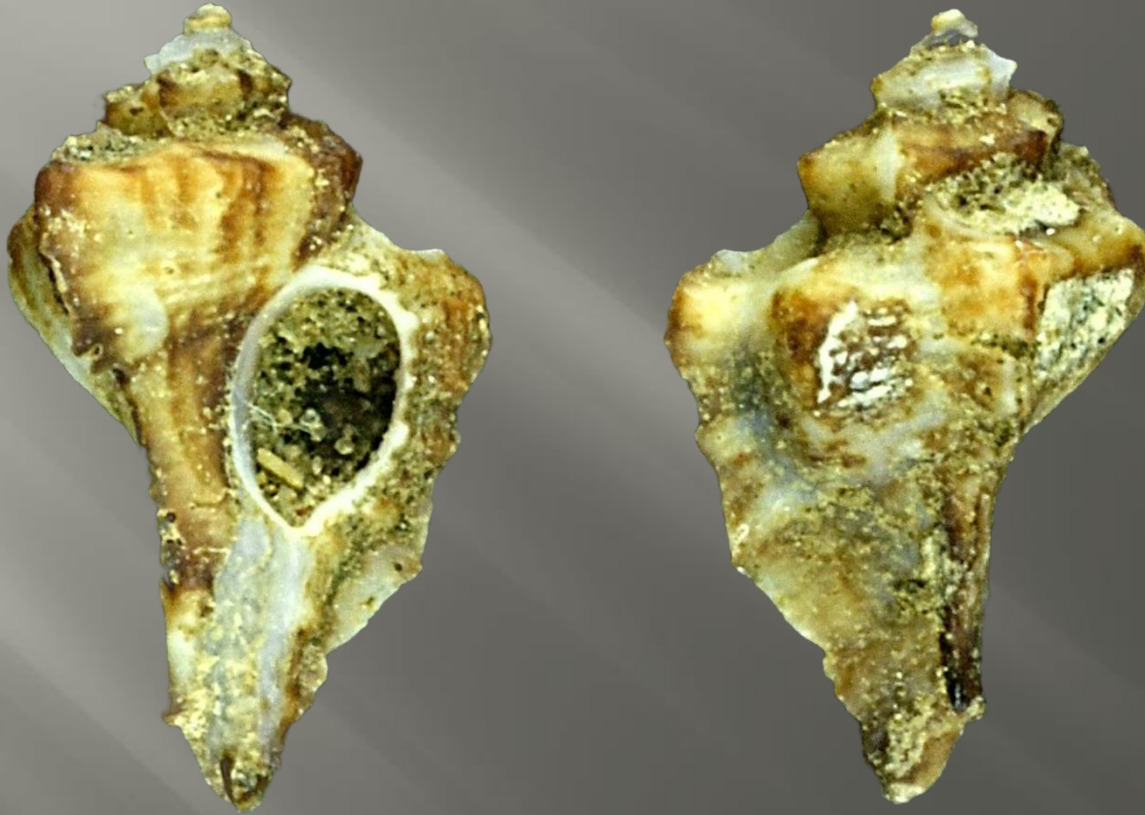
Gunjur, Gambia - collected from the cracks in a fishing boat - February 2019 - 14.02 mm - JV

Jaton rikae Petuch & Berschauer, 2019



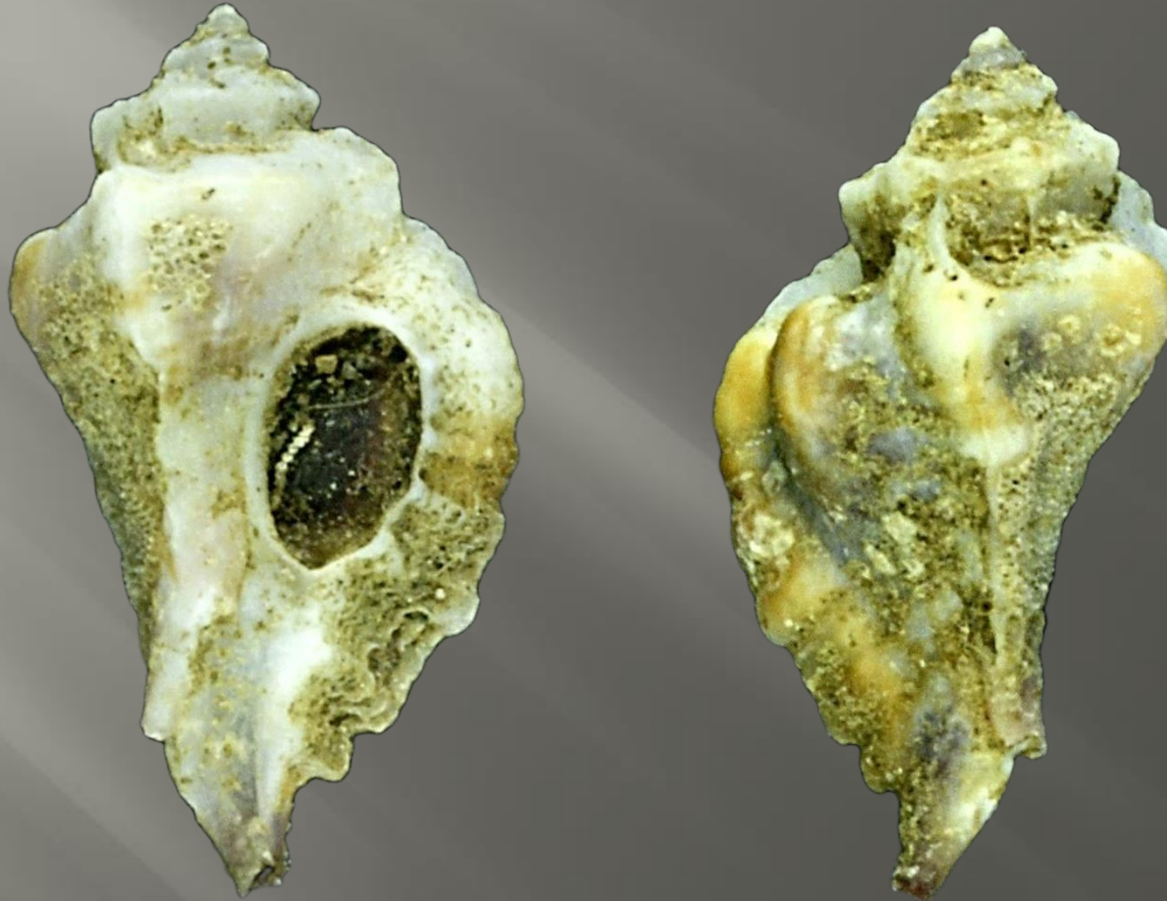
Gunjur, Gambia - collected from the cracks in a fishing boat - February 2019 - 15.70 mm - SH

Jaton rikae Petuch & Berschauer, 2019



Gunjur, Gambia - collected from the cracks in a fishing boat - February 2019 - 18.21 mm - SH

Jaton rikae Petuch & Berschauer, 2019



Gunjur, Gambia - collected from the cracks in a fishing boat - February 2019 - 20.31 mm - SH

Jaton hemitripterus (Lamarck, 1816)



Anse Bernard, Dakar, Senegal -
dived at a depth of 5 m - 19.05 mm - FN

Jaton sinespina Vermeij & Houart, 1996



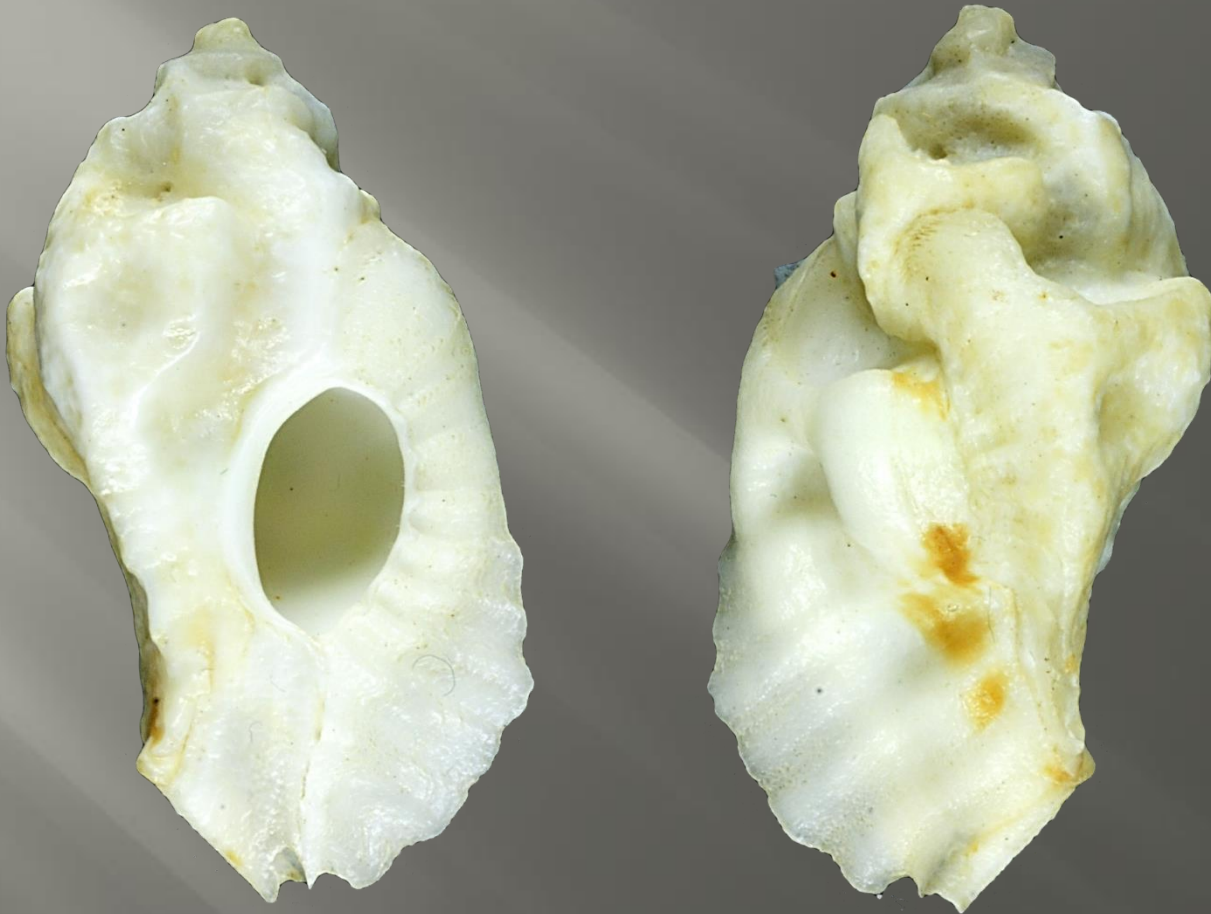
Ponta do Sombrero, Benguela Province, southern
Angola - dived at a depth of 8-10 m - 39.36 mm - JV

Jaton sinespina Vermeij & Houart, 1996



Farta Bay, Benguela Province, southern Angola - at
low tide in rock crevices - 1974 - 39.58 mm - FN

Jaton sinespina Vermeij & Houart, 1996



Farta Bay, Benguela Province, southern Angola - at
low tide in rock crevices - 1974 - 39.00 mm - FN

Jaton sinespina Vermeij & Houart, 1996



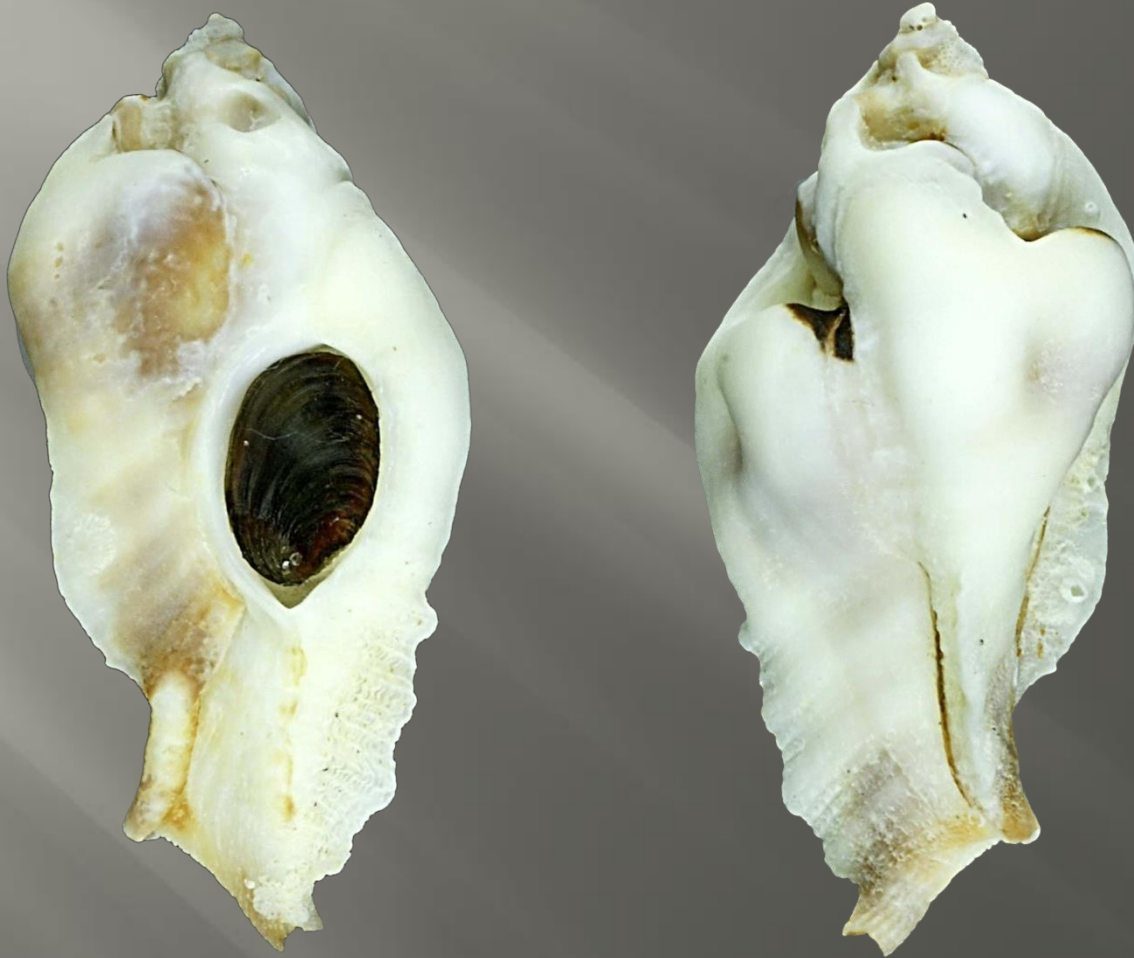
Saco Mar, Namibe Province, southern Angola - dived
at a depth of 4 m - August 1996 - 31.28 mm - FN

Jaton sinespina Vermeij & Houart, 1996



Bay of Lucira, Angola - in crevices with coarse sand
on rock platforms - February 2011- 39.11 mm - FN

Jaton sinespina Vermeij & Houart, 1996



Bay of Lucira, Angola - snorkeled at 4-6 m - attached in crevices of rock platform with coarse sand - August 2009 - 40.17 mm - SH

Jaton sinespina Vermeij & Houart, 1996



Bay of Lucira, Namibe Prov., Angola - dived at 3-6 m -
August 2012 - 37.50 mm - SH

Jaton sinespina Vermeij & Houart, 1996



Namibe Prov., southern Angola - dived at 6-8 m – on mud and rock bottom - August 2012 - 37.70 mm - SH

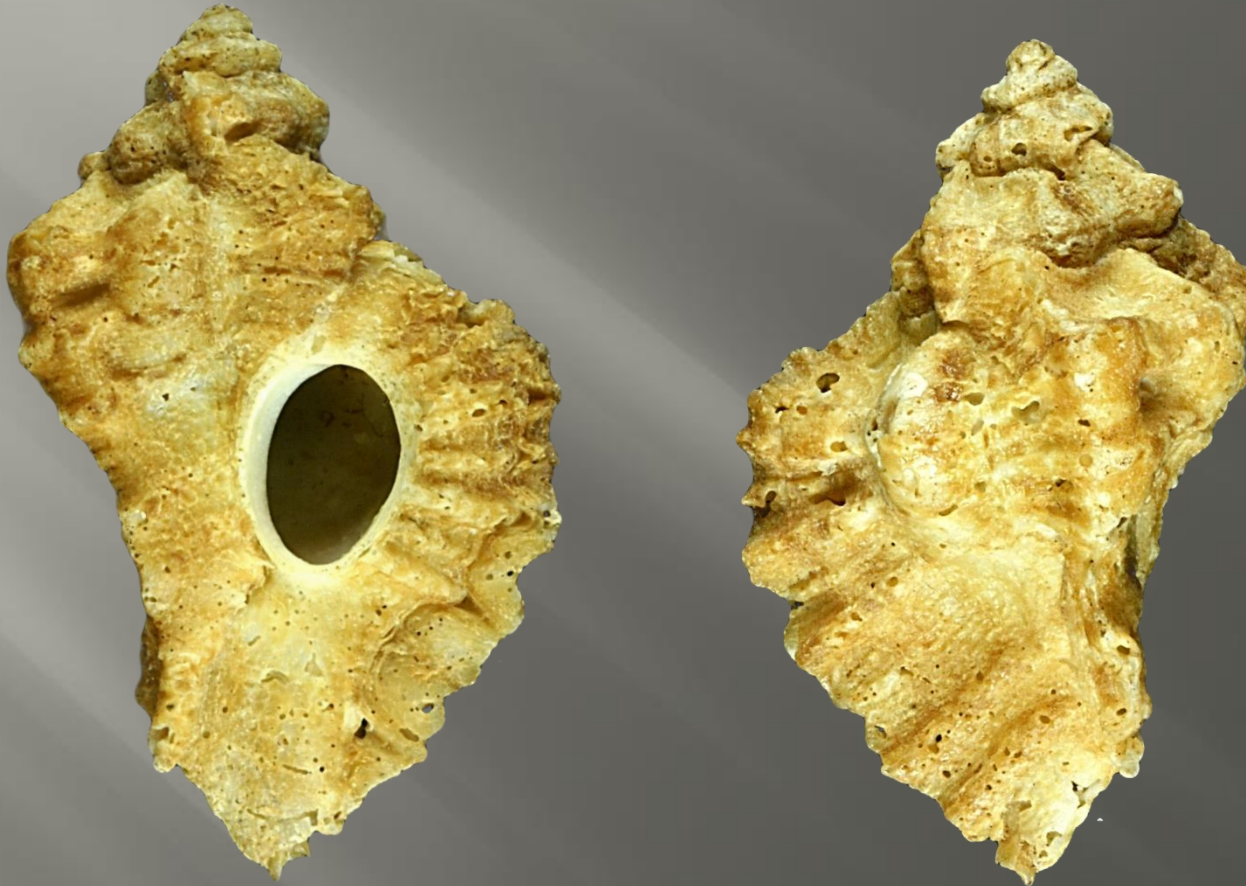


Jatón decussatus
50,7 mm



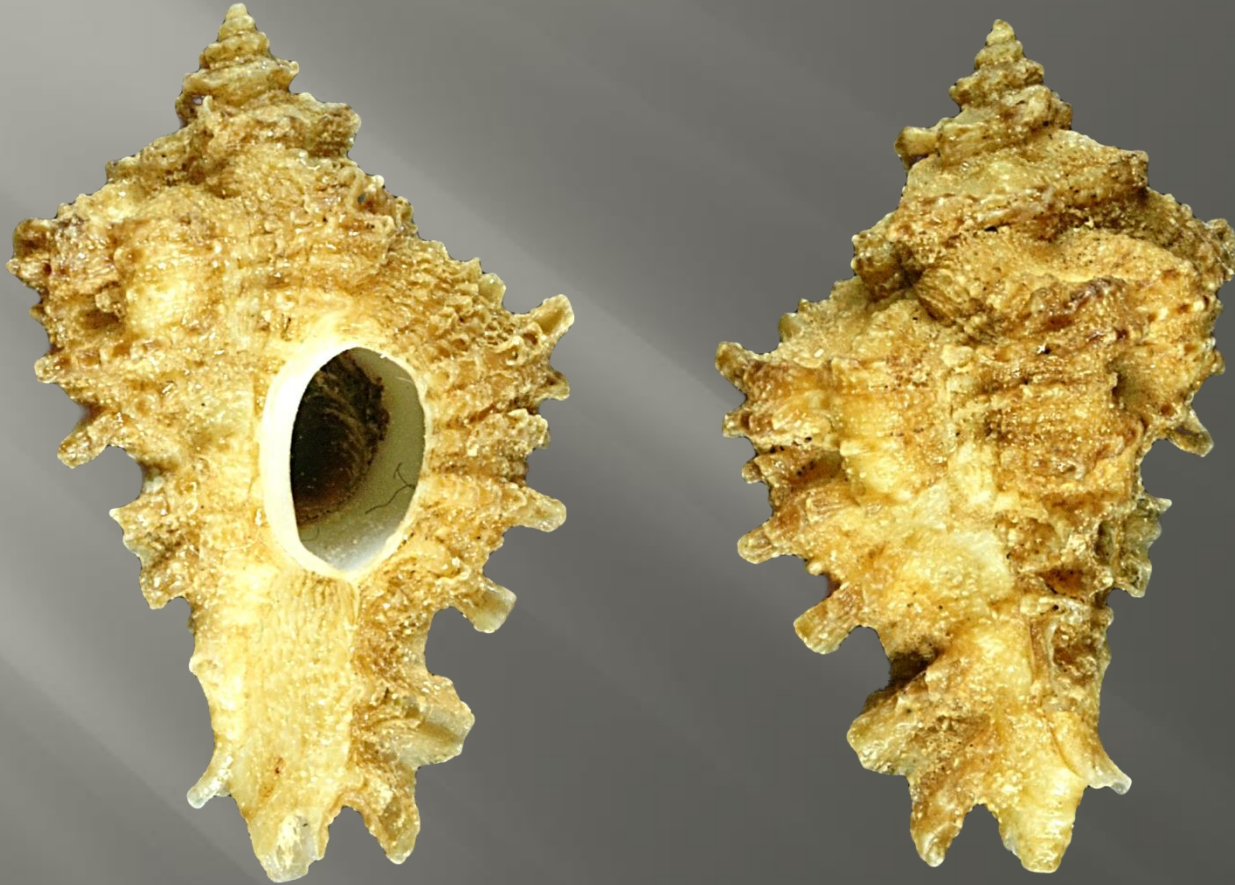
Jatón sinespina
44,8 mm

Jaton flavidus (Jousseaume, 1874)



Bay of Gorée, Dakar, Senegal - dredged by fishermen
at a depth of 15 m - March 1978 - 32.38 mm - FN

Jaton flavidus (Jousseaume, 1874)



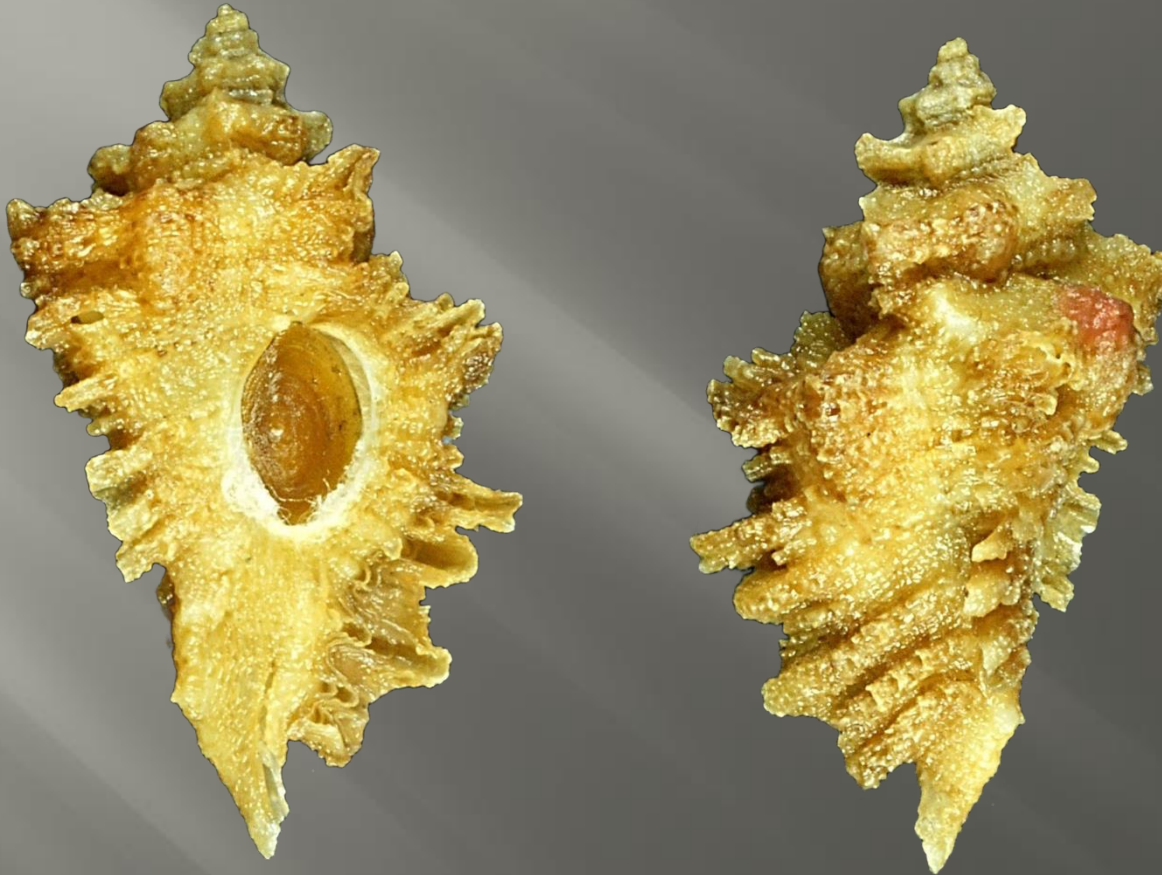
Bay of Gorée, Dakar, Senegal - dredged by fishermen
at a depth of 15 m - March 1978 - 32.38 mm - FN

Jaton flavidus (Jousseaume, 1874)



Cap de Naze, Popenguine, Senegal - trawled at a
depth of 40-50 m - 1989 - 33.12 mm - SH

Jaton flavidus (Jousseaume, 1874)



off Gorée, Dakar, Senegal - trawled at a depth of
20-30 m - 1991 - 34.55 mm - SH

Jaton flavidus (Jousseaume, 1874)



off Gorée, Dakar, Senegal - trawled at a depth of
20-30 m - 1991 - 34.77 mm - SH

Compare ... and conclude



J. rikaе



J. hemitripterus

syntype of *Murex hemitripterus*
MNHN (IM) - 2000-1511 - 27.7 mm

Conclusion:

Jaton rika

Petuch & Berschauer, 2019

is a junior synonym of

Jaton hemitripterus (Lamarck, 1816)

Figures and description are based

upon juvenile specimens of

J. hemitripterus.

Petuch and Berschauer (2019) claim that *J. rika*e is being found only on muddy sea floors and mud-covered rocky platforms. In fact, all specimens were found on a single occasion: in the cracks of a fishing boat parked on the beach.

Just like all related *Jaton* species, *J. hemitripterus* is a very variable species without specific features.

So, there was really no need to describe another new species.

We accept the presence of 4 different *Jaton* species along the West African shores. Three of them occur in the area from Mauritania to southern Senegal:

- *J. decussatus* (mainly in Senegal),
- *J. hemitripterus* (mainly in Western Sahara) and
- *J. flavidus* (Senegal).
- *Jaton sinespina* lives in southern Angola.

J. westsahariensis and *J. rikae* are regarded as junior synonyms of *Jaton hemitripterus*.