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SHELLS AND SEA LIFE

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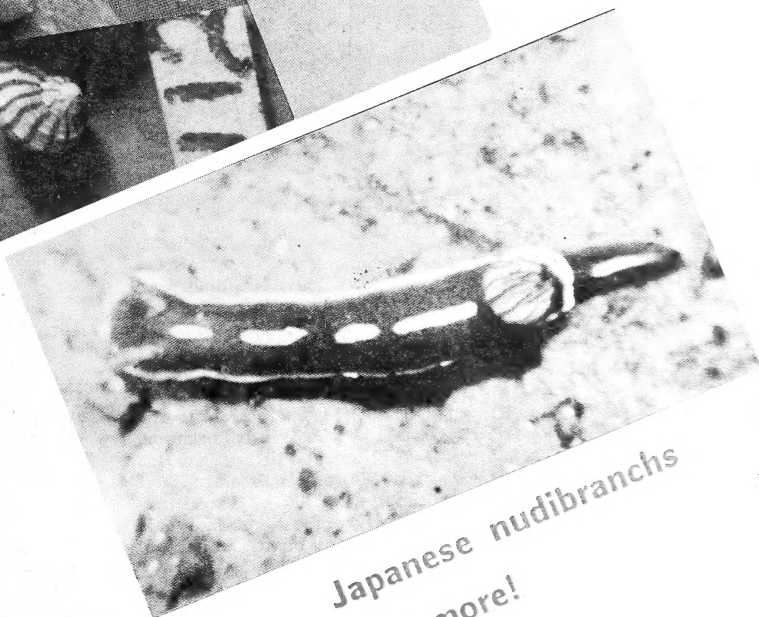
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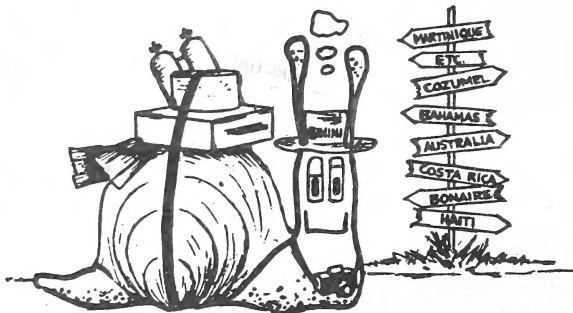
IN THIS ISSUE
Caribbean seashells



Japanese nudibranchs
and more!



Kirk Anders — Shell Guide Supreme
(1945 - 1985)



The shelling world was saddened by the news that Kirk Anders of Ft. Lauderdale, Florida, died on October 1, 1985, after a relatively short illness. Kirk was known to many hundreds of conchologists, both private and professional, as the leading shelling tourmaster in the Americas. He was responsible for many important field discoveries among the marine mollusks, and gave many pleasurable hours of assistance to amateurs wanting to observe and collect shells.

Kirk was born in Seattle, Washington, on January 26, 1945, and grew up in Florida. After obtaining his B.A. from the University of South Florida, he taught science in a local high school, and then founded Shells of the Seas, Inc., and later the Kirk Anders Travel Co. He combined his love of travel, people, shells and teaching into a thriving shell touring business which took him and his friends to most of the famous shelling areas of the world, from Central America to West Africa and from the West Indies to Australia and Egypt. The tours are being continued by his associate and protege, Pete Bright.

Kirk was a good communicator, as his many satisfied tour participants can testify. He was a co-founder and second President of the Conchologists of America (COA), and was President of the flourishing Broward Shell Club of Florida in 1971-72. For a brief period he issued an excellent popular magazine called *The Shell Collector*. His private collection consisted of over 10,000 species of worldwide mollusks. Kirk shared his knowledge and his shell specimens with everyone who was fortunate to have known him. His gentle nature, his warming sense of humor and his helpful hand will be remembered by many.

At his own request, Kirk was cremated and his ashes scattered in the eternal waters of the Gulf Stream off Florida. Those of his friends who wish to express their appreciation of Kirk's many kindnesses may make a token or substantial contribution to the scholarship or educational funds of either the COA (c/o Treasurer, Walter Sage, III, American Museum of Natural History, Central Park West at 79th St., New York, NY 10024) or his Broward Shell Club (P.O. Box 10146, Pompano Beach, FL 33061). These tax-deductible remembrances would keep Kirk's traditions and goals alive for many years to come. — R. Tucker Abbott, Melbourne, Florida.

* * * * *

EDITOR'S NOTES

By the time you read this editorial, you should be used to our new format. A lot of thought has gone into this format and we hope you will enjoy our efforts. We hope to increase the pages in upcoming issues and add several columns to the publication. This will depend primarily on what you — the readers — submit.

For the present, we are not encouraging new species description or major taxonomic works in *Shells and Sea Life*. Works of this nature will be handled as "Occasional Papers" and printed in a smaller, bound format with higher quality paper and printing including color, as required. They will remain "occasional" publications to allow proper review and editing.

We hope that most of you will have this issue in your hands before the end of October and that you will receive the November issue very early in November. We have done it — caught up! We are very pleased with the response we have had so far. The August issue was published on October 14, 1985. The September issue was published on October 17th, 1985 and the October issue was published on October 22, 1985.

I have never doubted our ability to catch up and could not understand why a few of our customers were concerned. Then one of my friends in the publishing business pointed out that no publication he was aware of had ever recovered after falling behind in schedule. I guess that we were too dumb to know that it could not be done. Thanks to all of you who helped us keep going.

Sally will likely spend most of November in England with her parents. We will be working hard to keep up with book orders and subscriptions. Please get all of your Christmas orders in as soon as possible so that we can get them out to you in time. We are already seeing delays in the mail and U.P.S. deliveries. We hope to get to the Western Society of Naturalists' meetings between Christmas and New Years.

Best regards,

Steve Long

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Remarks on Nowell-Usticke's Caribbean shells

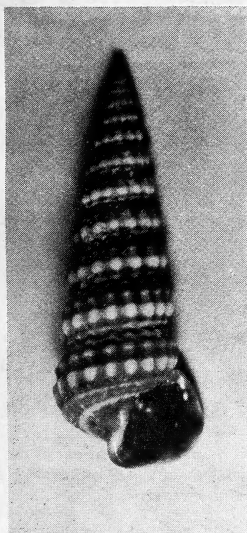
Peggy Williams

Rt 3 Box 28A, Sarasota, FL 34243

Sometime in the 1950's, a New Yorker named Gordon Nowell-Usticke retired to St. Croix. Finding there many shells he could not identify, he set about giving them names. In a series of four privately published monographs, he named a total of 123 shells between 1959 and 1971. Many of his "new species" were, of course, already represented in the literature, but a few of his names are valid, and I have been trying to discover which they are. I hope to share my conclusions when they are complete, but in the meanwhile I'd like to ask for help in the investigation.

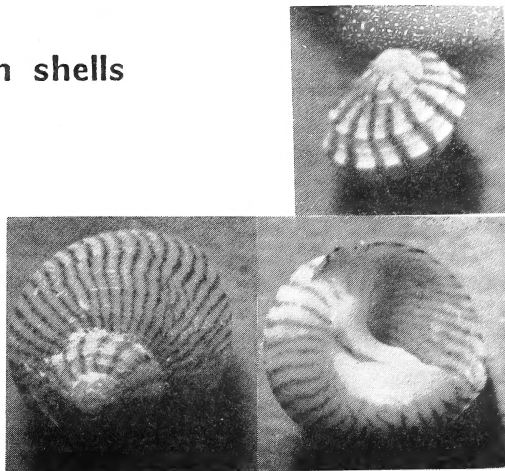
When Nowell-Usticke died, his collection went to the American Museum of Natural History in New York. Bill Old went down to St. Croix to collect what he could of the shells in the short time available and managed to find most of the holotypes and some paratypes of the shells Nowell-Usticke named. The illustrations in his monographs are very poor (in fact, some of the newly named shells are not pictured or even described), and some of them are missing from the museum's collection. These are:

- Lucapinella limatula delicata* (1969)
- Vanikora incerta* (1959)
- Bittium varium* form *turricula* (1969)
- Natica hayesae* (1959)
- Anachis subcostulata* variety *subcincta* (1969)
- Odostomia charlottae* (1969)
- Tralia ovula sculpta* (1959).

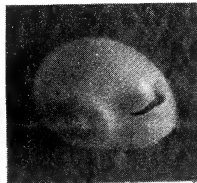


Cerithidea costata form *barbudaensis*, 1969. This is probably one of the few live-collected shells Usticke named. (Most of his specimens appear to have come up in the harbor dredging.) It is possibly *Cerithidea costata beattyi* Bequaert, 1942. Size about 15 mm.

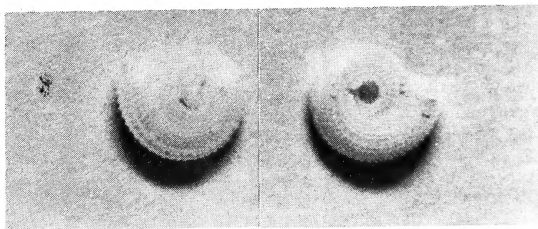
Cerithiopsis cruzana, 1959 is about 4 mm, white with a subsutural band of orange-brown. There are two sets of spiral white nodes and one of orange.



Some others of the shells I'd like information about are: *Pseudostomatella cycloradiata*. Named in 1959 as a variety of *P. delicata*; Nowell-Usticke later changed it to a variety of *P. erythracoma*. It does not resemble either shell and, in fact, is different than any Caribbean shell I know! There are two specimens in the collection: a juvenile and a larger shell. They are strikingly colored white with reddish stripes, about 5 mm in diameter.



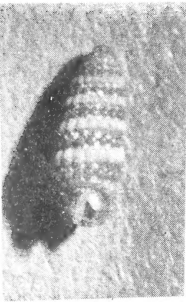
Teinostoma millepunctata, 1969. This tiny (2 mm) shell has many punctations on the surface caused by microscopic axial and spiral grooves.



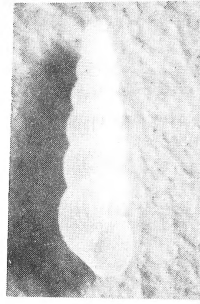
Heliacus crystalina, 1969. This is a lovely, tiny (4 mm) pure-white shell with delicate sculpturing.

Rissoa cruzensis (3 mm) Named in 1969, the genus was changed to *Amphithalmus* in the 1971 monograph. This is not *Assimineia succinea*, because it lacks the substral groove of that species. There is only one specimen available, and the nucleus is lost.

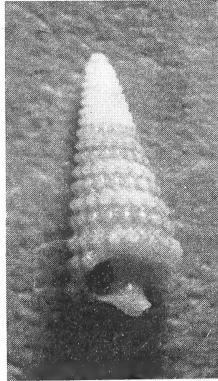




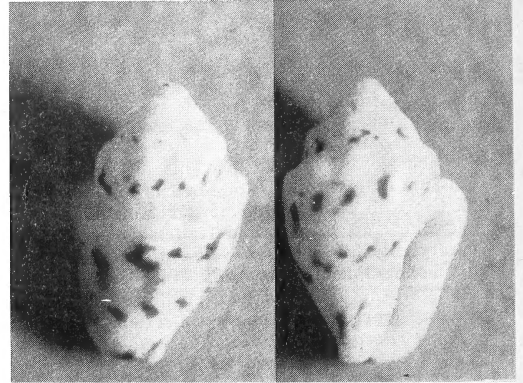
Cerithiopsis contrapupa, 1969 is also white and orange. There is a sub-sutural row of orange nodes and a white row below. Size 3 mm.



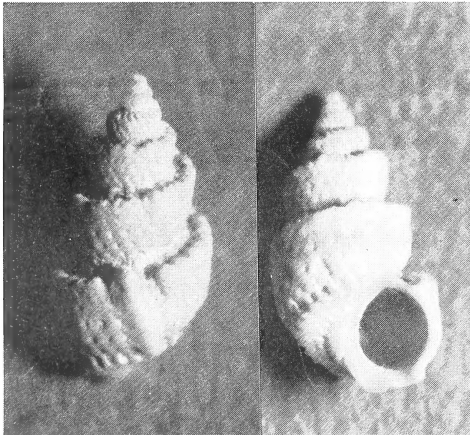
Graphis rotundata, 1969. (3 mm) Usticke compared this with *Aclis underwoodae* Bartsch, 1947, citing the new shell's stronger ribs on the base and the presence of an umbilical chink as differences. The ribs are actually about the same on the base and upper whorls, but there is indeed an umbilical chink.



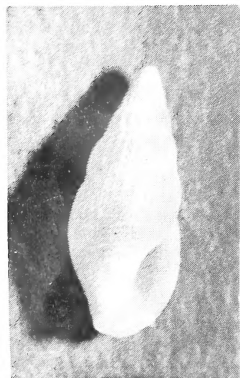
Triphora novem, 1969 is very old and worn but may be a good species. The nuclear whorls and the first three whorls are white, the rest faded orange (probably originally brown). The remaining shell is 4 mm high.



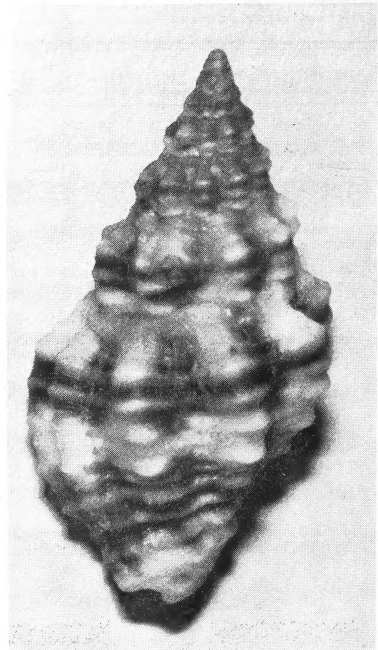
Pyrene nodulosa, 1959. (9 mm). I have seen no similar species from the Caribbean. Usticke changed the genus to *Columbella* in 1971.



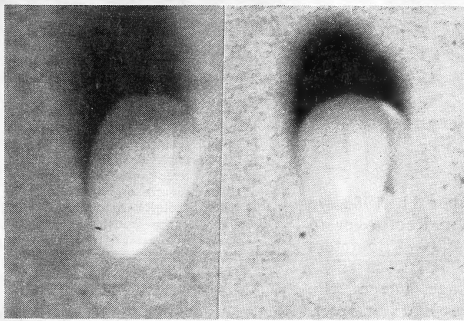
Opalia karinae, 1969 is an exquisite shell unlike other Caribbean Epitoniidae I have seen.



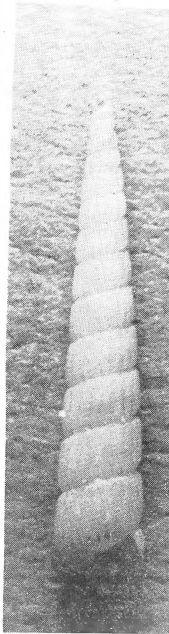
Anachis multicostata, 1969. (6 mm). The white color of this shell may be due to the age of the shell, though the sculpture seems intact. This may be *Zafrona pulchella* (Blainville, 1829).



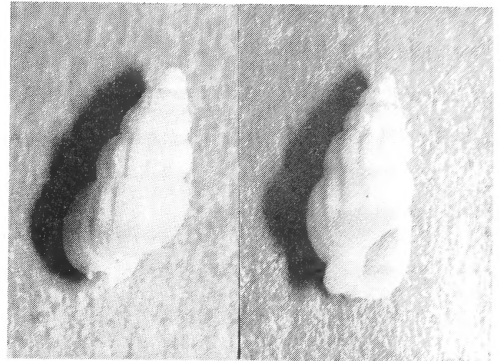
Cantharus karinae, 1959. Though this shell is the same as what is accepted as *C. lautus* Reeve, Usticke claimed to have seen the type of *C. lautus* in the British Museum and said it was not the same shell. It is claimed that *C. lautus*, which has no type locality, is a Mediterranean shell. Can anyone confirm or disprove this claim?



Persicula aldridgei, 1969 is a tiny shell (1-2 mm). Usticke later synonymized it with *P. (now Eratoidae) margarita* Kiener, which it is not. The shell is very beachworn but seems to be a *Granulina* species.



Turbonilla lillybeckae, 1969. At 9 mm, this is a large specimen of the genus as Usticke claimed. I have no idea if it is a good species or not.



Nassarius karinae, 1969. Usticke originally named this shell *N. albus nanus* in 1959! In the later work, he declared *nanus* a preoccupied name (which it was) and renamed the shell for his wife. In shape and coloring it does seem somewhat different than other Caribbean *Nassarius* species. It is small, about 4 mm.

As I said before, I'd appreciate any comments on these and other of Usticke's species. I'd also like to have biographical notes on a man who was certainly energetic and interested in my own passion of conchology.

Though many of his "new" species were previously described, the valid ones need to be recognized and used. I believe there are still many unrecognized species in the lower Caribbean, but I hope to discover, through this research, a few which are correctly named.

* * * * *

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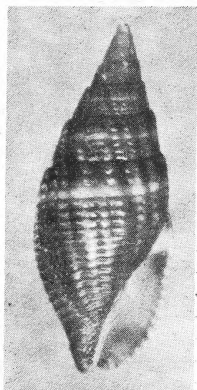
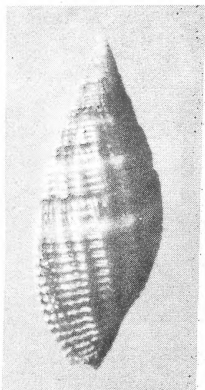
ON THE REEF WITH BOB PURTYMUN: *Mitra amaura*

Early on the morning of December 11, 1983 we made a very rough crossing from Dip Reef over to Faraday. Faraday Reef is about 110 kilometers North East of Townsville, Australia. It is located on the southern edge of Magnetic Passage, one of the main ship channels through the Great Barrier Reef. With strong South Easterlies still blowing we pulled up close in the lee and dropped the hook.

The top of the reef was about 8 feet under water, and the lee edge dropped another 15 feet to a sandy bottom covered with dead coral rubble and slabs. From here the bottom sloped away rather steeply. One of my best finds was in the coral rubble on this sloping sand bank -- *Mitra (Strigatella) amaura* Hervey, 1898.

I have never seen this shell listed for sale, though A. Hinton in his "Guide to Shells of Papua New Guinea" classes it as common. In other books it is classed as "moderately rare", just plain "rare", or not listed. This one is unique to my collection, so you can bet it holds a prominent spot in a *Mitra* tray. This shell is 22 mm long by 9 mm wide.

Bob Purtymun, P.O. Box 643, West Point, CA 95255



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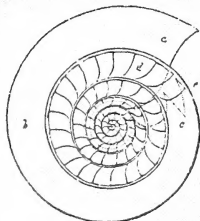
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CURRENT EVENTS

Schedule: Shows & Conventions

1985

Geological Society of America National Convention, Orlando, Florida, October, 1985

Crown Point Shell Collectors Study Group Shell Show, Southlake Mall, Merrillville, Indiana, October 4 - 6

Gulf Coast Shell Club Fourth Annual Shell Show, Panama City, Florida, October 5th & 6th at the Panama City Mall. Previous shows have drawn upward of 10,000 visitors to the mall for each event. Many visitors are from the surrounding states as well as from abroad. For further information contact the Gulf Coast Shell Club, Lolita King, P.O. Box 323, Bay Point, Panama City, FL 32407

American Littoral Society 24th Annual Meeting Florida West Coast, October 10 - 14

West Coast Shell Show Santa Barbara, California October 12 - 13

North Carolina Shell Show Wilmington, North Carolina, October 26 - 27

The Western Society of Naturalists, in conjunction with the Moss Landing Marine Laboratories and The Monterey Bay Aquarium presents its 66th Annual Meeting at the Monterey Conference Center, Monterey, California — December 27-30, 1985. Four symposia, together with four afternoons of Contributed Paper Sessions and Poster Presentations on several disciplines of Biology constitute the academic portion of the program. A special session entitled "Diablo Cove — A long term central California coast marine monitoring study" has been organized by David W. Behrens and Phillip A. Lebednik, and will be chaired by James Adams. For additional information write to Prof. David H. Montgomery — WSN Secretary, Biological Sciences Department, California Polytechnic State University, San Luis Obispo, California 93407.

1986

Sarasota Shell Club will hold its 23rd Annual Shell Show on February 21, 22, and 23, 1986, at the Sarasota Exhibition Hall at 801 N. Tamiami Trail, Sarasota, Florida. Local and worldwide shells, shell art, and shellcraft will be in competition and on exhibition. Show hours will be from 12 noon to 5 pm on Friday, and 10 am to 5 pm on both Saturday and Sunday. The Sarasota Shell Club is a non-profit organization, with all proceeds going to schools, museums, research, marine institutions, libraries, etc. For further information and entry forms, contact Bet Hamilton, 1240 Primrose, Venice, Florida 33595, or call 813-497-2809.

2nd International Symposium on Indo-Pacific Marine Biology Guam, Truk & Ponape, Sponsored by the Western Society of Naturalists, June 22 - July 9

American Malacological Union
Western Society of Malacologists Joint Meeting, Monterey, California, July 2-7

Midwest Regional Shell Show in Indianapolis will not be held this year. The sponsoring club, the Indianapolis Shell Club has voted to make the show a once every two year's affair beginning in 1986.

If we have missed a show or convention that you are aware of please excuse us, and send the information. We would especially like to hear of overseas shows and meetings. Thanks to Donald Dan for keeping us informed of many of these dates.

Common Names Comments

I have the following comments on the Cephalaspidea section of the AMU Common Names List, as published in the December issue of S&SL. Paul and I helped compile this section of the list for Bill Lyons, et al., and although we understand that there may have been other contributors, I thought it wise to offer my comments to the "semi-finished" copy.

Scaphandridae: A. atrata: The common name "blackback barrel-bubble" has never been published (unless you count S&SL). Paul & I had intended to include an "official common name" in our original description, but Veligier would have none of it. I notified Bill Lyons of this, but it apparently was missed.

Scaphandridae: A. candeii: "Cande barrel-bubble" was published for this species in Rehder's (1981) Audubon Society Field Guide to North American Seashells.

Scaphandridae: A. oldroydi: We had suggested "Oldroyd barrel-bubble" for this one. I only mention this because many of our original suggestions were accepted; this one wasn't and I see no reason why.

Cylichnidae: C. verrillii: "Verrill chalice-bubble" was used by Morris (1973) in Field Guide to Shells of the Atlantic and Gulf Coasts and the West Indies, 3rd ed.

Aglajidae: C. hirundinina: We suggested "swallow aglaja" for this. Same comment as under Cylichna (above).

Gastropteridae: G. rubrum: "Batwing seaslug" doesn't seem adequate. We had suggested "red batwing seaslug".

Runcinidae: R. divae: "Diva runcina" was suggested by us in view of the fact that the Marcuses named this species for Diva. Patronyms seem to be acceptable in other cases where no other has been used.

Bullidae: B. striata: I believe the common name was misspelled here — should be "striate" rather than exactly like the specific name???

Retusidae: R. mayoi: We had suggested "Mayo barrel-bubble" — same comments as previously concerning patronyms and our suggestions.

Finally, I am dismayed by two "rules" of these common names, and find this to be one last time to cry about them:

1. The use of descriptive names is clearly advantageous and I too prefer their use over patronyms. However, it seems confusing to use the former when the species has clearly been named after a person or place. The patronym seems the more "obvious" trivial name and thus would be more memorable (= useful).

2. The use of lower case throughout for common names. A sentence talking about the "orange cone" makes it ambiguous whether one is referring to a cone which is colored orange or to the Orange Cone. The latter is species-specific, the former may not be.

Thanks for the opportunity to comment. I hope that publishing these lists has been helpful to the committee. We appreciate S&SL's assistance with this project.

Sincerely,
Paula M. Mikkelsen
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Paula M. Mikkelsen
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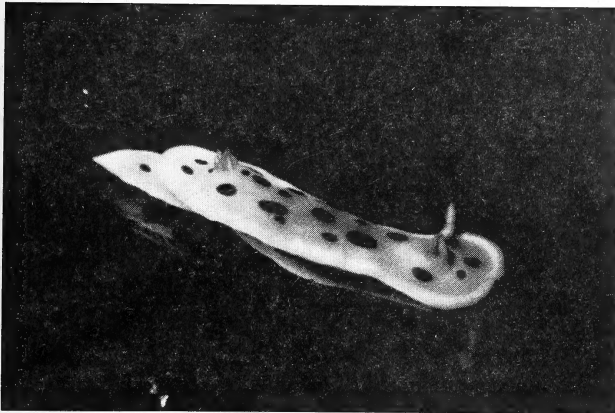
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An illustrated key to the Chromodoridinae genera of Japan (Mollusca: Nudibranchia: Dorididae).

Kikutaro Baba

Shigigaoka 35, Minami-11-jo, Sango-cho, Ikoma-gun, Nara-ken, Japan, 636



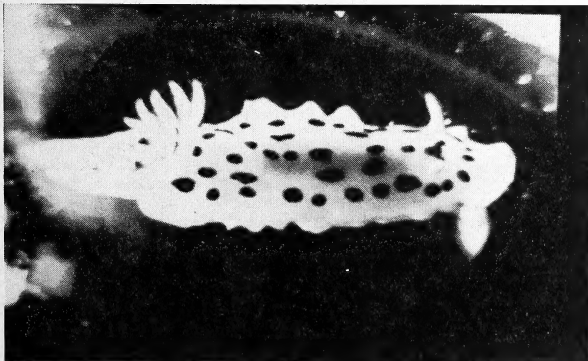
1) *Chromodoris orientalis* Rudman, 1983. Awashima, Suruga Bay, 17 November 1971, 20 mm.

Abstract

Six genera (*Chromodoris*, *Glossodoris*, *Mexichromis*, *Hypselodoris*, *Noumea* and *Babaina*) are listed as occurring in Japan. Comparison is made between them, with special reference to their taxonomic features, namely the labial cuticle, radular teeth and part of the genital organs.

Introduction

Regarding the taxonomy of the Chromodoridinae, discussions have been presented by such recent authors as Bertsch, H. (1977 to 1978), Rudman, W.B. (1973 to 1983) and others. Based on their observations it seemed necessary for me to carry on a revisional study of this animal group of Japan, on the basis of a collection of materials from different localities.



2) *Chromodoris orientalis* Rudman, 1983. Echizen-cho, Echizen Coast, 8 August 1983, 55 mm.

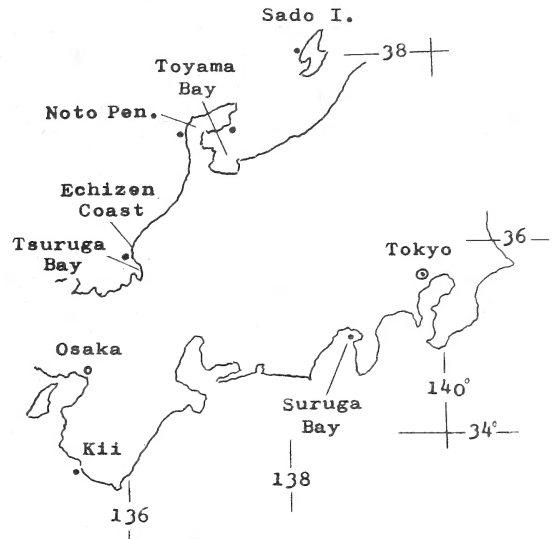
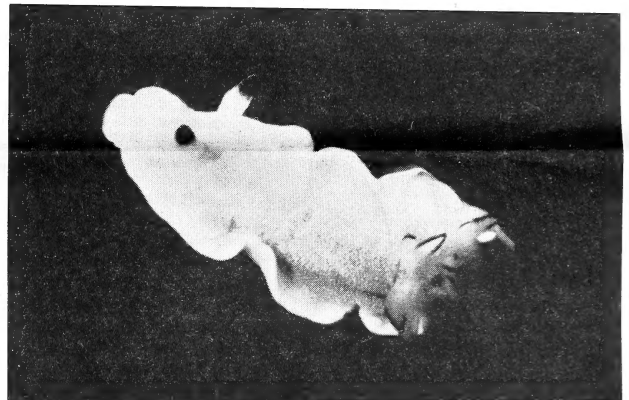


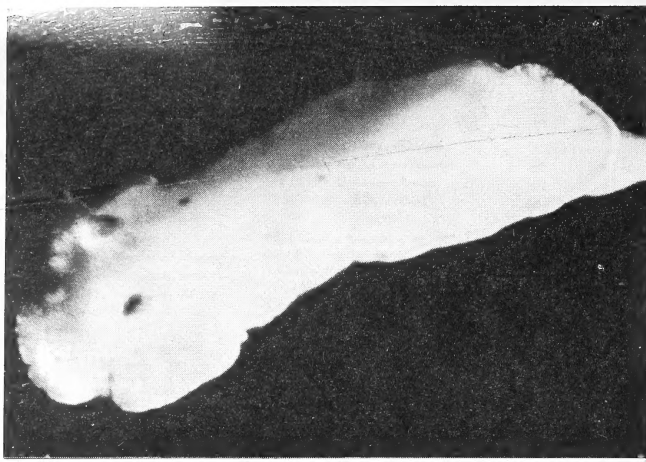
Figure 1. Map of the middle part of Japan proper, showing collecting localities.



3) *Glossodoris sibogae* (Bergh, 1905). Echizen-cho, Echizen Coast, 7 August, 1983, 25 mm.

Materials

- A. *Chromodoris orientalis* Rudman, 1983 = *C. pallescens* Eliot, 1913. (1) Awashima, Suruga Bay (4 May 1972). Radula, LD (labial disc) and genitalia.
- B. *Glossodoris* sp. (1) Sado I. (1 August 1954). Radula & LD. (2) Ogi, Toyama Bay (5 August 1962). Genitalia.
- C1. *Noumea decussata* Risbec, 1928 = *N. nivalis* Baba, 1937. (1) Echizen-cho, Echizen Coast (11 August 1966). Radula and LD.
- C2. *Noumea* sp. (unrecorded species closely allied to *N. decussata* in color). (1) Ogi, Toyama Bay (5 August 1962). Genitalia.
- D. *Mexichromis festiva* (Angas, 1864; *Goniodoris*) (new record) (1) Awashima, Suruga Bay (4 May 1972). Radula, LD and genitalia.
- E1. *Hypselodoris festiva* (A. Adams, 1861; *Doriprismatica*) = *Chromodoris marenzelleri* Bergh, 1881; *C. iris* Collingwood, 1881. (1) Awashima, Suruga Bay (4 May 1972). Radula, LD and genitalia.
- E2. *Hypselodoris maridadilus* Rudman, 1977 = *Glossodoris hilaris* Baba, 1953. (1) Seto, Kii (4 September 1951). Radula and LD.
- F. *Thorunna florens* (Baba, 1949; *Glossodoris*). (1) Echizen-cho, Echizen Coast (11 August 1966). Radula. (2) Ogi, Toyama Bay (5 August 1962). LD and genitalia.



4) *Noumea decusata* Risbec, 1928. Togi-Kazanashi, West coast of Noto Peninsula, 9 August 1972, 15 mm.

Description

- A. *Chromodoris* — Within the subfamily Chromodoridinae, the radula, labial disc and genitalia of this genus are presumed to be typical for the subfamily.
 B. *Glossodoris* (= *Chromolaichma*) — The radular ribbon is exceedingly elongated posteriorly. On the inner lateral teeth, the main cusps and the lateral denticles are apt to be degraded. The denticles are entirely missing on the outer lateral teeth.

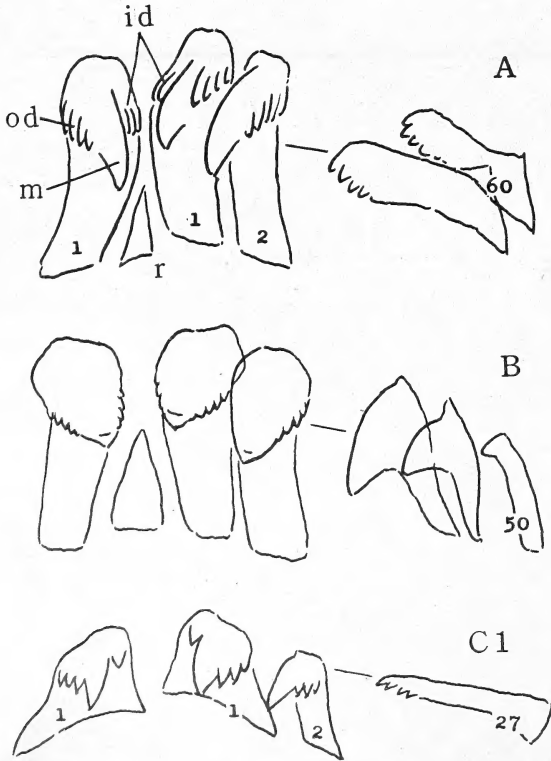
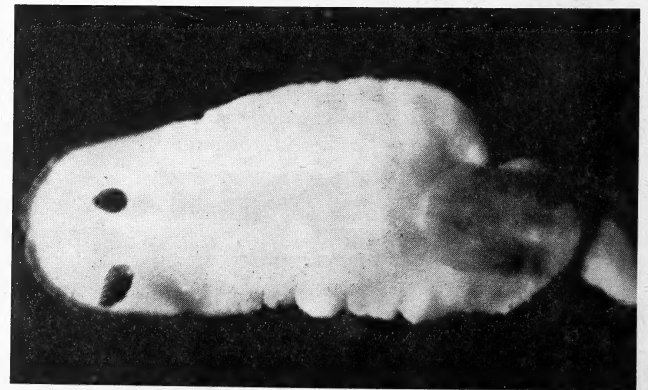
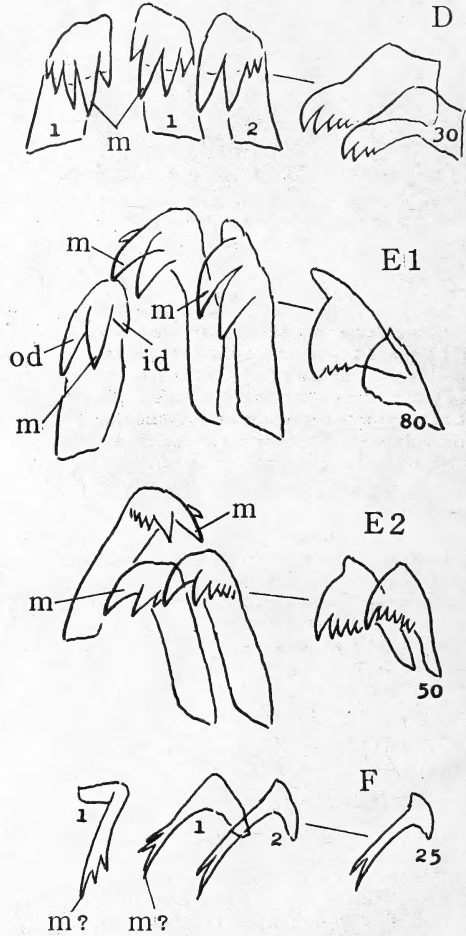


Figure 2. Half row of the radula (for A, B, C1 above).
 Shells and Sea Life, 17(10):226

- C. *Noumea* — The first lateral tooth is more or less broader than the succeeding ones. The rachidian plate has disappeared.
 D. *Mexichromis* — Unlike *Chromodoris*, the first lateral tooth and some of the next ones are seemingly many cuspidate. A rachidian plate is absent. The animals of this genus from Japan are markedly tuberculated on the mantle.

Figure 3. Half row of the radula (for D, E1, E2, F below). Abbreviations. (Radula) id. inner denticle; m. main cusp; od. outer denticle; r. rachidian plate.



5) *Noumea* sp. (unrecorded species). Echizen-cho, Echizen Coast, 8 August, 1976, 15 mm.

- E1. *Hypselodoris* (the type form) — Seemingly the first lateral tooth is tricuspidate, and the succeeding ones are bicuspidate. There is no rachidian plate. Unlike *Chromodoris*, the labial disc is combined above, and separated below, and the spermatocyst is unusually decreased in size.
- E2. *Hypselodoris* (the *maridadilus* form) — Seemingly the first and the succeeding lateral teeth are tri- to bicuspidate, and each tooth is provided with a number of denticles down the cusps. A rachidian plate is absent. The labial disc is combined above and below.
- F. *Thorunna* — Seemingly the first and the succeeding lateral teeth are slender, and apically tri- to bifid. The labial cuticle is naked (?).

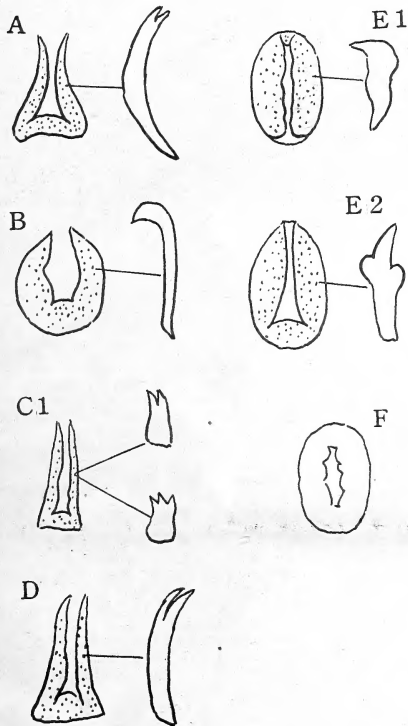
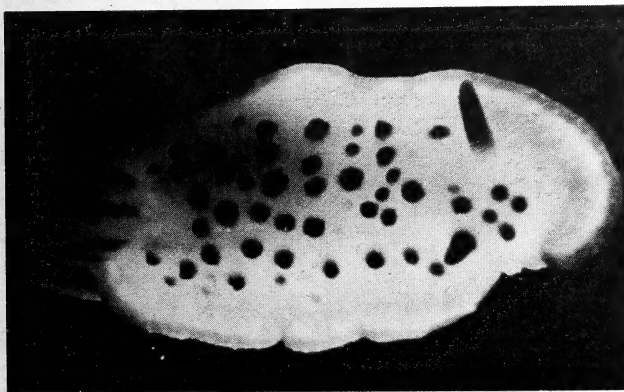
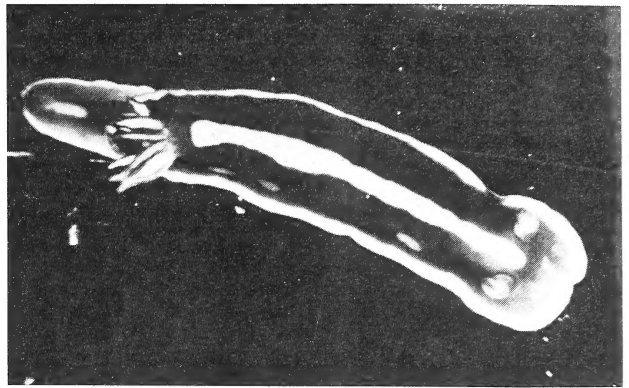


Figure 4 (left). Labial disc (LD), and rods



6) *Mexichromis festiva* (Angas, 1864). Awashima, Suruga Bay, 4 May 1972, 20 mm.



7) *Hypselodoris festiva* (A. Adams, 1861). Togi-Kazanashi, West coast of Noto Peninsular, 9 August 1972, 20 mm.

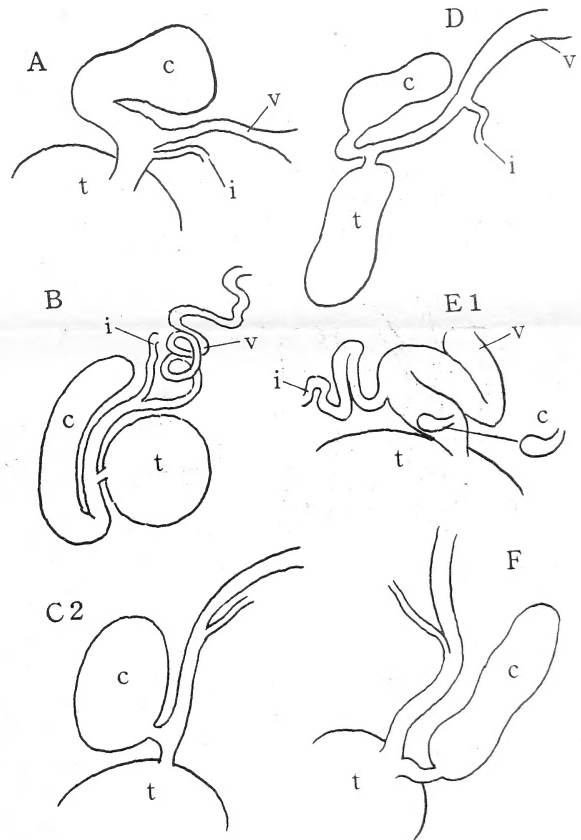
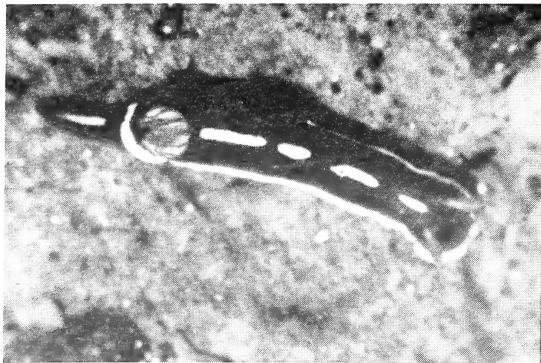


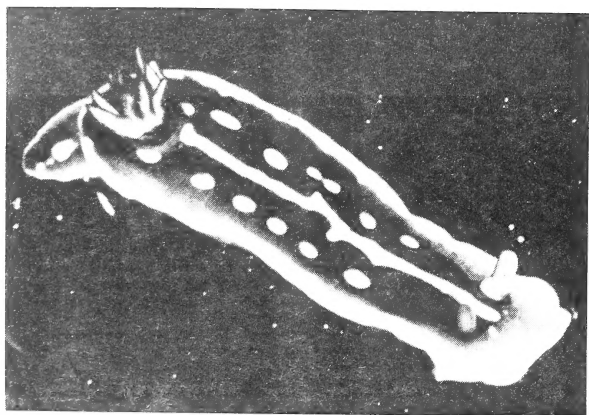
Figure 5. Part of the genitalia in dorsal view. Abbreviations. (Genitalia) c. spermatocyst; i. insemination duct; t. spermatheca; v. vagina.

Conclusion

The six genera of the Chromodoridinae of Japan were compared anatomically and taxonomically. They have in common, the fundamental pattern of organization of the subfamily, because many of them were formerly classified together in a single genus, *Chromodoris* (or *Glossodoris*). They have been differentiated from each other by details of their internal anatomy.



8) *Hypselodoris festiva* (A. Adams, 1861). Ogi, Toyama Bay, 29 July 1953, length not recorded.



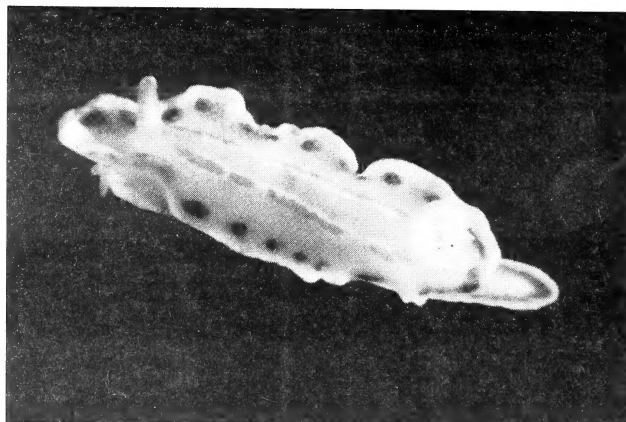
9) *Hypselodoris festiva* (A. Adams, 1861). Togi-Kazanashi, West coast of Noto Peninsula, 9 August 1972, 20 mm.

Acknowledgments

I am indebted to the following institution and gentlemen for the collection of specimens: The Marine Science Museum, Tokai University; Mr. Takeo Abe (Takaoka Senior High School); and Dr. Itaru Usuki (Niigata University).

Postscript

According to Rudman, 1983a, the generic name *Glossodoris* has priority over *Chromolaichma*, and a specific name change follows: *Glossodoris sibogae* (Bergh, 1905; *Chromodoris*).



10) *Babaina florens* (Baba, 1949). Togi-Kazanashi, West coast of Noto Peninsula, 9 August 1972, 15 mm.

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