LEE KONG CHIAN NATURAL HISTORY MUSEUM

2022

AN INVENTORY OF THE MOLLUSCS OF PULAU SATUMU (RAFFLES LIGHTHOUSE), SINGAPORE

With Notes on the Etymology and History of the Islet

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ABSTRACT

Pulau Satumu is the southernmost islet within Singapore's territorial jurisdiction. It is often referred to as Raffles Lighthouse or Raffles Light after its lighthouse, which began operating in 1855. Some notes of interest on the islet's etymology and history, such as the earliest known name being "the Coney" or "Coney Island", are provided. We present a first inventory of the mollusc species of Pulau Satumu, which is of some significance as the islet is one of the marine areas recently proposed to be of conservation priority in the Singapore Blue Plan 2018. A total of 328 species, compiled from records in the literature, and original data from a recent biodiversity survey in 2020 and existing material deposited in the Lee Kong Chian Natural History Museum, are listed. The class Gastropoda is most speciose with 232 species in 69 families, followed by the class Bivalvia with 92 species in 26 families, then the classes Polyplacophora and Cephalopoda, each with two families and two species. Records of five species, *Nerita signata*, *Drupa albolabris*, *Drupa morum*, *Drupa ricinus* and *Morula uva*, are regarded as likely to be erroneous. More than 250 species are figured; the vast majority of them are of available voucher material.

INTRODUCTION

Pulau Satumu (1°09′35.6″N 103°44′26.9″E) is a small islet located in the Singapore Strait. It is the southernmost islet within Singapore's territorial jurisdiction, and is part of the group of islands southwest of the main island of Singapore collectively known as the Western Islands (Fig. 1). Pulau Satumu is also widely known as Raffles Lighthouse or Raffles Light after the lighthouse on the islet (Figs. 2, 3).

Based on the localities mentioned in the 'Wu Bei Zhi/Wu Pei Chih' (武备志 [武備志]) charts compiled by Mao Yuanyi (茅元仪 [茅元儀]) (b. 1594; d. 1640?), it has been suggested that the Ming Dynasty tributary voyages between 1405 and 1433, some of which were led by Zheng He/Cheng Ho (郑和 [鄭和]) (b. 1371; d. 1433 or 1435), may have sailed near Pulau Satumu (Mills, 1937: 23–25; 1979: 76). The preface date of the 'Wu Pei Chih' charts is 1621 (Mills, 1937: 3). If confirmed, this would be one of the earliest mentions of the islands surrounding Pulau Satumu.

The earliest known name given to Pulau Satumu is "the Coney" or "Coney Island" in the journals and logbooks of ships of the British East India Company from as early as 30 August 1762 (Dalrymple, 1780; Fig. 4). Even after the Raffles Lighthouse was completed in 1855, the name Coney Island continued to be used (Hobbs, 1872; Fig. 5). On charts and in texts (see below), the Coney is almost always mentioned in association with another small islet just to its north-west named "the Rabbit" or "Rabbit Island" (now Pulau Biola) (Figs. 1, 4, 5, 6A).

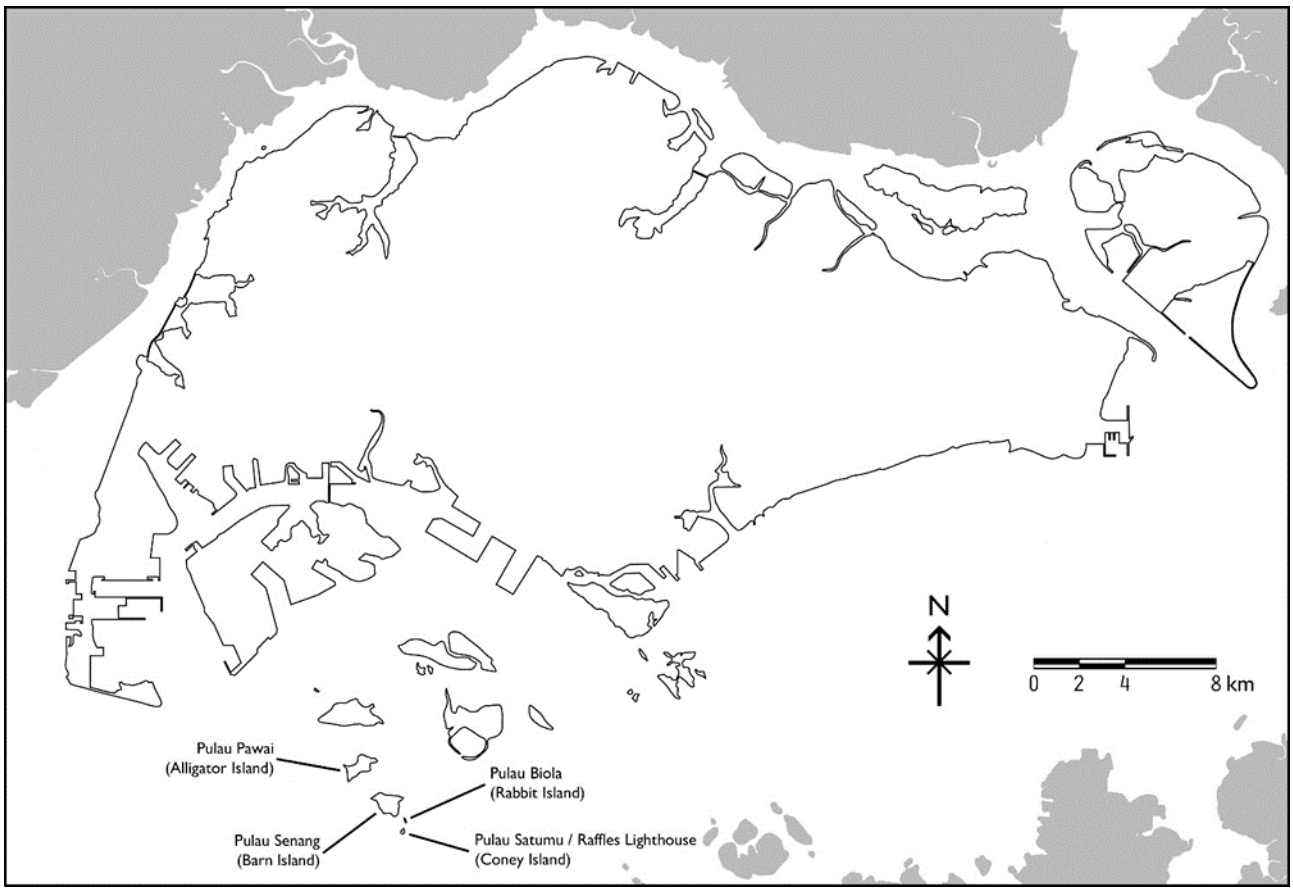

Fig. 1. Map of Singapore showing the location of Pulau Satumu (Raffles Lighthouse) which is the southernmost island within Singapore's territorial jurisdiction. It was previously known as the Coney or Coney Island. Also shown are Pulau Biola (formerly the Rabbit or Rabbit Island), Pulau Pawai (formerly Alligator Island) and Pulau Senang (formerly Barn Island). The map was adapted from dmaps.com (https://d-maps.com/carte.php?num_car=5615&lang=en).

Fig. 2. Raffles Lighthouse (ca. 1921). Reproduced from Makepeace et al. (1921: pl. facing p. 590), showing the extent of the islet half a century before reclamation.

EARLY DESCRIPTIONS AND VISITS

Two of the earliest written descriptions of the Coney and the Rabbit was by John Crawfurd (b. 1783; d. 1868) when he made a voyage from India to Siam (Thailand) and back to India aboard the Honourable East India Company Ship (HEICS) *John Adams* as part of a diplomatic mission. On the outward journey from India, Crawfurd (1828: 42) recounted how at noon on 19 January 1822 "we passed the narrow channel of the Rabbit and Coney, the western entrance of the Straits of Singapore, and soon found ourselves surrounded in every direction by beautiful verdant islands" (Crawfurd, 1828: 42). Eleven months later, on 23 November 1822, during the journey back to India, Crawfurd (1828: 297) recounted how the ship was becalmed:

> "In the evening, it falling calm after we had passed the channel of the Rabbit and Coney, we followed our usual practice, and landed. Dr. Wallich accompanied Mr. Finlayson and myself. The island which we visited is called in the charts Alligator Island [= Pulau Pawai], and lies close to another which is known by the name of Barren Island [= Barn Island = Pulau Senang]. […] Dr. Wallich described the vegetable productions of all these islands as equally rich and novel, and was, in fact, carrying back with him a curious and extensive botanical collection."

This description by Nathaniel Wallich (b. 1785; d. 1854) appears to be the earliest natural history observations of the islands surrounding Coney Island (see also Low & Pocklington, 2019: 26, 27; Low, 2021: 251). The locations of the islands (with their old names) mentioned relative to the island of Singapore are shown in Figs. 1, 4 and 5.

Between the two voyages by Crawfurd cited above, William S. Collinson, John Croft Hawkins and Robert Moresby (no dates known for all three) discussed the Coney and the Rabbit while sailing aboard HEICS *Prince of Wales* on 31 October 1822 in their directions "for passing through the North-east Entrance into the Straits of Singapore" (Collinson et al., 1822: 258).

The Coney and the Rabbit are mentioned again in connection with Crawfurd's circumnavigational survey of Singapore and its surrounding islands in August 1825. An account of this survey was published in the 'Singapore Chronicle' in November 1825 which included the observation that "[t]he Rabbit and the Coney are two masses of

sand-stone with a few trees" (Anonymous, 1837: 269–273). The arrival of the survey party at the two islets marked the end of that enterprise but the ceremony that followed at the same place signified a new undertaking—almost one and a half centuries of colonial rule:

> "At 3 in the afternoon we landed on the Rabbit and Coney and took possession of them under a salute of 21 guns. These two Islets, so well known to the navigator, form the limit of the British possession to the S.W. and this possession in all, now embraces a circumference full one hundred geographical miles." (Anonymous, 1837: 272, 273).

Prior to the construction of the lighthouse (see below), there appear to be only two other visits of natural history interest to Coney Island. These are those of surveyor John Turnbull Thomson (b. 1821; d. 1884) and geologist-explorer James Richardson Logan (b. 1819; d. 1869) who both remarked on the geology of the islet (Thomson, 1849: 622; Logan, 1851: 314; 1852: 183).

THE LIGHTHOUSE

Although visitors to the islet were rare, the hazards around Coney Island, which marked the entrance into the Singapore Strait, were well known (Hamley, 1834: 386, 387; Taylor, 1834a: 391; 1834b: 392). Taylor (1834b: 392) while aboard His Majesty's Ship (HMS) *Wolf* in 1832, remarked that sailing near Coney Island "requires great attention to the steerage" of the ship. As early as 1833, plans were discussed for the construction of a lighthouse there (Savage & Yeoh, 2013: 320). During a ceremony on 24 May 1854, the foundation stone of the lighthouse was laid down (Anonymous, 1854: 470–472). This took place exactly four years after a similar process was held for the construction of the Horsburgh Lighthouse on Pedra Branca (Pavitt, 1966: 23). Less than 18 months later, on 1 November 1855, the Raffles Lighthouse on Coney Island began operating (Barnard, 2019: 591).

Fig. 3. Raffles Lighthouse viewed from the jetty (November 2020). (Photograph by: Iffah Iesa)

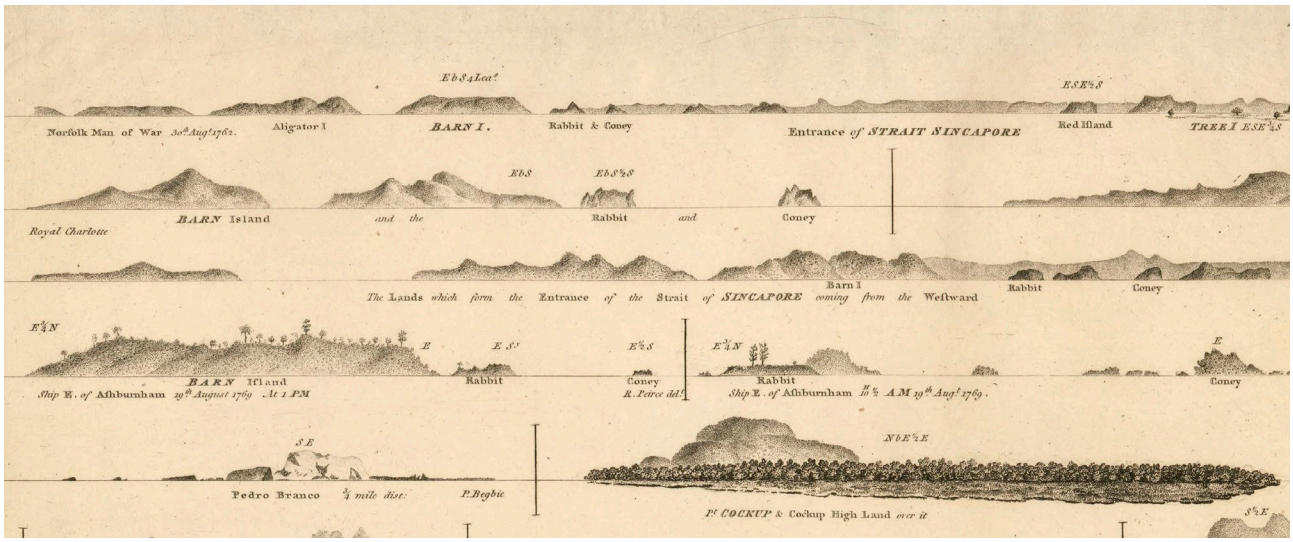

Fig. 4. Reproduction of a portion of a chart from 1780 entitled 'Strait of Sincapore' showing depictions of the islands surrounding Singapore as recorded by previous voyages of British East India Company ships. The earliest of these is that of the *Norfolk* on 30 August 1762 (top). Also shown are those of the voyages of HEICS *Royal Charlotte* (undated) (middle) and HEICS *Ashburnham* (bottom) on 19 August 1769. Reproduced from Dalrymple (1780).

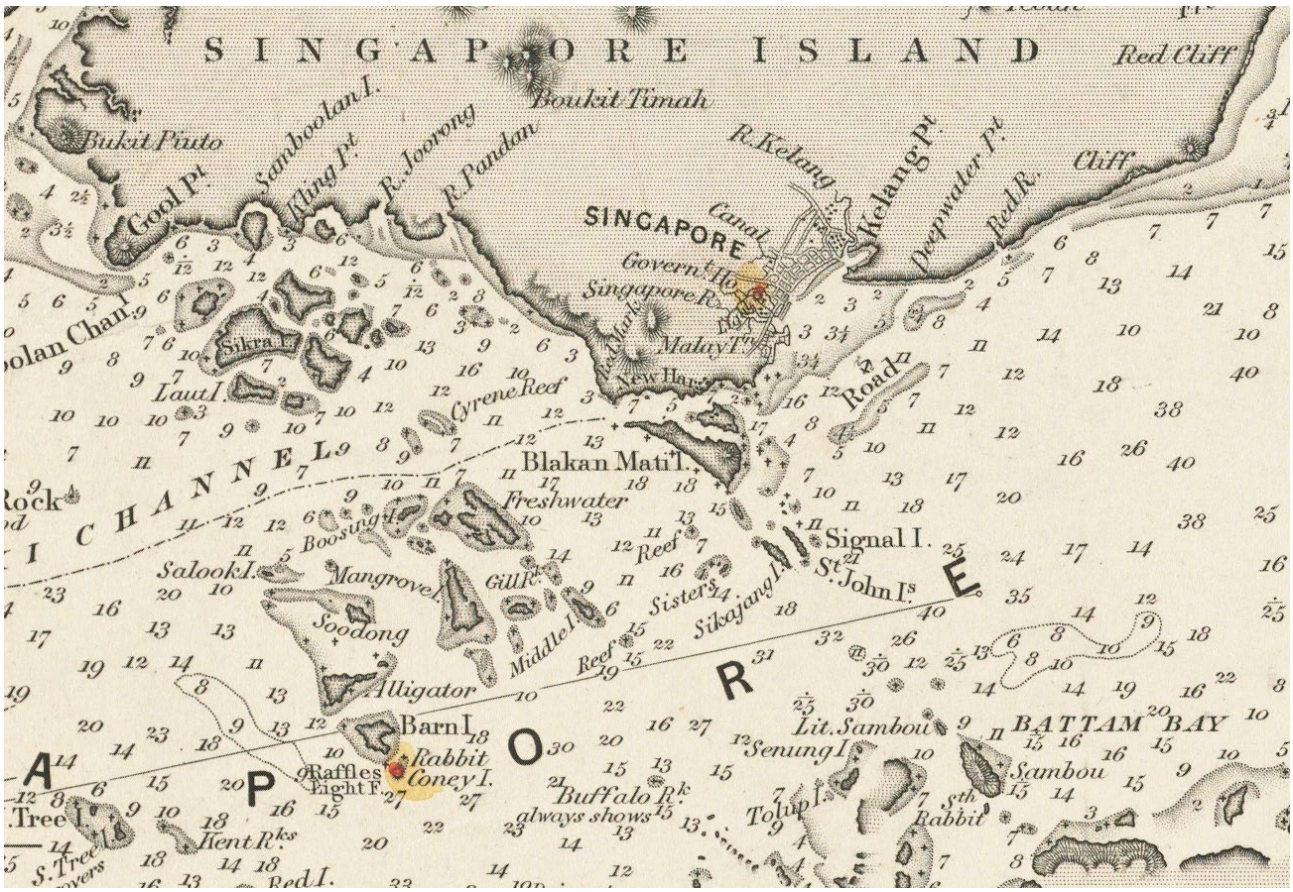

Fig. 5. Reproduction of a portion of a chart from 1872 entitled 'A Chart Showing the Navigation through the Strait of Malacca to Singapore, &c. Drawn from the Late Dutch and English Surveys' showing the old names used for the islands surrounding Singapore. The two red dots show the two lighthouses then in operation: Raffles Lighthouse and the now defunct lighthouse at the top of Government Hill (now Fort Canning Hill). Reproduced from Hobbs (1872).

ETYMOLOGY OF NAMES

In the survey of Singapore by Crawfurd cited above, the etymology (or lack thereof) of the names of many of the islands surrounding Singapore was discussed (Anonymous, 1837). Of particular interest here, it was stated that:

> "The Rabbit and the Coney are two masses of sand-stone with a few trees. The whimsical appellation of these two islets suggests some observations upon the fantastic names which have been given to places in this part of the world; not only by European navigators but by the natives of the country themselves. There is scarcely any sense or meaning in the best of them. Pray, what is the difference between a rabbit and a coney? Dr. Johnson makes none. The objects which here suggested to the mind an English sailor 'a pair of rabbits,' suggested to a Malay a 'fiddle,' Pulo Biola, for such is their name in the Malayan language!" (Anonymous, 1837: 273).

The view that the islets resemble their eponyms was reinforced by Begbie (1834: 305) who stated that "the Rabbit and Coney, (two small islands, which bear a strong similarity in figure to the animals whose name they bear)".

It should be noted that Coney Island is also used for Pulau Serangoon in the north-east of Singapore. This second instance of the name Coney Island was given by Ghulam Mahmood (no dates) who hoped that naming the island after the eponymous location off New York would help to bolster its intended repurposing as a recreational destination (S. T. G. Lim & Perono Cacciafoco, 2021: 51–53).

The name Raffles Lighthouse was given in commemoration of Stamford Raffles and it was already in use in the local newspapers in the days leading up to the foundation stone-laying ceremony in 1854 (Barnard, 2019: 591, note 49). Pulau Satumu (or Setumu) is derived from the Malay prefix "sa-" or "se-" meaning "one" or "single" in combination with "tumu", the Malay name for the mangrove tree *Bruguiera conjugata* (L.) Merr. (Gibson-Hill, 1954: 176, note 28; Burkill, 1966: 376; Savage & Yeoh, 2013: 92, 320). The exact date when Coney Island was renamed to Pulau Satumu is not known but the earliest use of the new name was in a Straits Times article on 19 May 1954 discussing the visit by 500 schoolchildren to commemorate the centenary of the lighthouse (Anonymous, 1954).

RECENT HISTORY AND RECENT BIODIVERSITY STUDIES

In the 1970s, Pulau Satumu increased around a hectare in size, and an artificial lagoon was created, during a reclamation exercise affecting several of Singapore's islands (Holmberg, 1976; Ho, 1977). Today, the islet and its immediate vicinity, within a radius of 300 m, is a prohibited area, thus usually inaccessible. Pulau Satumu was recently included, together with the adjacent Pulau Biola (see Figs. 1, 6A), as one of the marine areas proposed for immediate conservation priority in the Singapore Blue Plan 2018 (see Jaafar et al., 2018).

Many studies based on data, observations, and organisms collected from Pulau Satumu have contributed toward understanding various aspects of the marine flora and fauna of both the islet and Singapore in general (e.g., R. D. Purchon & Enoch, 1954; N. K. C. Goh & Chou, 1993; Todd et al., 2004; B. P. L. Goh et al., 2009). The islet was also the filming location for documentaries made by marine biologists Hans Hass (b. 1919; d. 2013) and Lotte Hass (b. 1928; d. 2015) who recorded underwater and aerial footage when they visited in 1958 (Anonymous, 1958: 7). This work resulted in a television film and the headline "30 million see life under water off S'pore" (Anonymous, 1961: 7). Although reduction in coral cover over the years has been reported (Chou, 2000, 2002), the coral reefs surrounding Pulau Satumu were and still are widely regarded to be among the best and most pristine in the territorial waters of Singapore (N. K. C. Goh & Chou, 1993; Huang et al., 2009; Jaafar et al., 2018). However, despite the prominence of this locality and the number of past studies, little information is readily available on the diversity of other marine organisms beyond the corals.

In late 2020, a three-day biodiversity survey (hereafter the 2020 survey) of the intertidal zone of Pulau Satumu was carried out by members of the staff of the Lee Kong Chian Natural History Museum (LKCNHM), National University of Singapore (NUS) (Figs. 6–11). Results of the reef fishes from this survey were reported by H. H. Tan & K. K. P. Lim (2020). The same survey yielded more than 100 species of molluscs, which provided the impetus for this study.

The present study attempts to provide a first comprehensive overview of the malacofaunal diversity of Pulau Satumu and its surrounding waters. A total of 328 species recorded to date are summarised in checklists of the different molluscan classes (Tables 1–4). The bases of all records are listed accordingly and where pertinent, remarks on taxonomical issues, possibly erroneous records and other notes of interest are included. More than 250 species are figured to allow review and authentication, as well as to conveniently showcase the remarkable molluscan diversity.

MATERIAL & METHODS

This study incorporates the results of the 2020 survey, original data from material deposited in the Zoological Reference Collection (ZRC) of the LKCNHM, and published records in the literature. The 2020 survey was conducted from 15–17 November 2020 in the late afternoons to early evenings to coincide with the low tides. Most species recorded were represented by voucher specimens of which more than 100 lots were collected, while a few documented species were represented by only photographic evidence. The ZRC was searched for material labelled as collected from Pulau Satumu and its immediate vicinity for examination and inclusion. More than 200 lots from collections made from the 1930s to the 2010s were located; the two largest single sources of specimens from Pulau Satumu in the ZRC being the Lim Chuan Fong Collection (see notes below on the Lim Chuan Fong collection) and the Comprehensive Marine Biodiversity Survey (CMBS) carried out in the 2010s (see K. S. Tan et al., 2016). Unless otherwise specified, the CMBS material indicated with "intertidal", "SCUBA dive" and "dredged" were respectively collected via handpicking in the intertidal zone, by SCUBA divers in depths between 6–10 m on the reef slopes, and from dredge hauls between 30–40 m in the vicinity of the islet.

The literature was subsequently scoured for mention of mollusc species from 'Pulau Satumu', 'Raffles Lighthouse', or 'Raffles Light', reviewed for accuracy, and identified or re-identified where necessary or possible. Literature records without representative figures or illustrations are generally assumed to be correctly identified if the species has been previously recorded from Singapore and the species is known to occur in habitat conditions similar to those present at Pulau Satumu.

Species determinations were primarily based on comparisons with identified material in the ZRC, and by checking against the original descriptions, revisionary treatments and popular references (e.g., Reid, 2007; Huber, 2010, 2015; and other references cited herein). Herein, species names prefixed with 'aff.' indicate affinity to the stated species, but is decidedly not conspecific, while 'cf.' indicates comparison, and possible conspecificity, with the named taxon. Species determined to a genus, but not identified with any known species are indicated by 'sp.' following the genus. The current valid names, and systematic classification adopted herein are heavily based on MolluscaBase (MolluscaBase Eds., 2021–2022). All material examined (accession numbers prefixed with ZRC.MOL) are deposited in the LKCNHM, NUS. Other abbreviations used herein are BL (body length), ca. (circa), mm (millimetres), SL (shell length), sp. (species [when used as proper noun in place of undetermined specific name]) and spp. (species plural [when used as proper noun for unspecified plural number of species]).

ON THE LIM CHUAN FONG COLLECTION

Lim Chuan Fong (b. 1936; d. 2012) was a Head of the Department of Zoology in the then University of Singapore in the 1970s. His private shell collection of more than 1,300 lots was acquired by the LKCNHM in 2014.

Although experienced researchers would know that the accompanying data of specimens, whether in museum or private collections, cannot be accepted without due consideration, we deem it necessary to include a short note on this collection as a word of caution for future users. Around half of the collection were labelled as collected from various Singapore localities from the late 1950s to the early 2000s, and include interesting and invaluable historical material from the former collection of the National Museum and from studies carried out by the university. However, it must be noted that many instances of labels with likely erroneous locality information and possibly mixed-up or combined lots were identified during the curatorial process to incorporate the Lim Chuan Fong collection into the ZRC. Unfortunately, these include several lots purportedly from "Raffles Light" which were flagged to be possibly mislabelled. Nevertheless, to avoid introducing personal biases through selective omissions, we consider it prudent to include all species purportedly collected from Pulau Satumu to allow scrutiny and perhaps substantiation by future workers. More than 70 lots from the Lim Chuan Fong collection (herein as 'ex LCF') were examined and included in the present study. For a stricter interpretation, all records unique to this collection could be regarded as requiring verification.

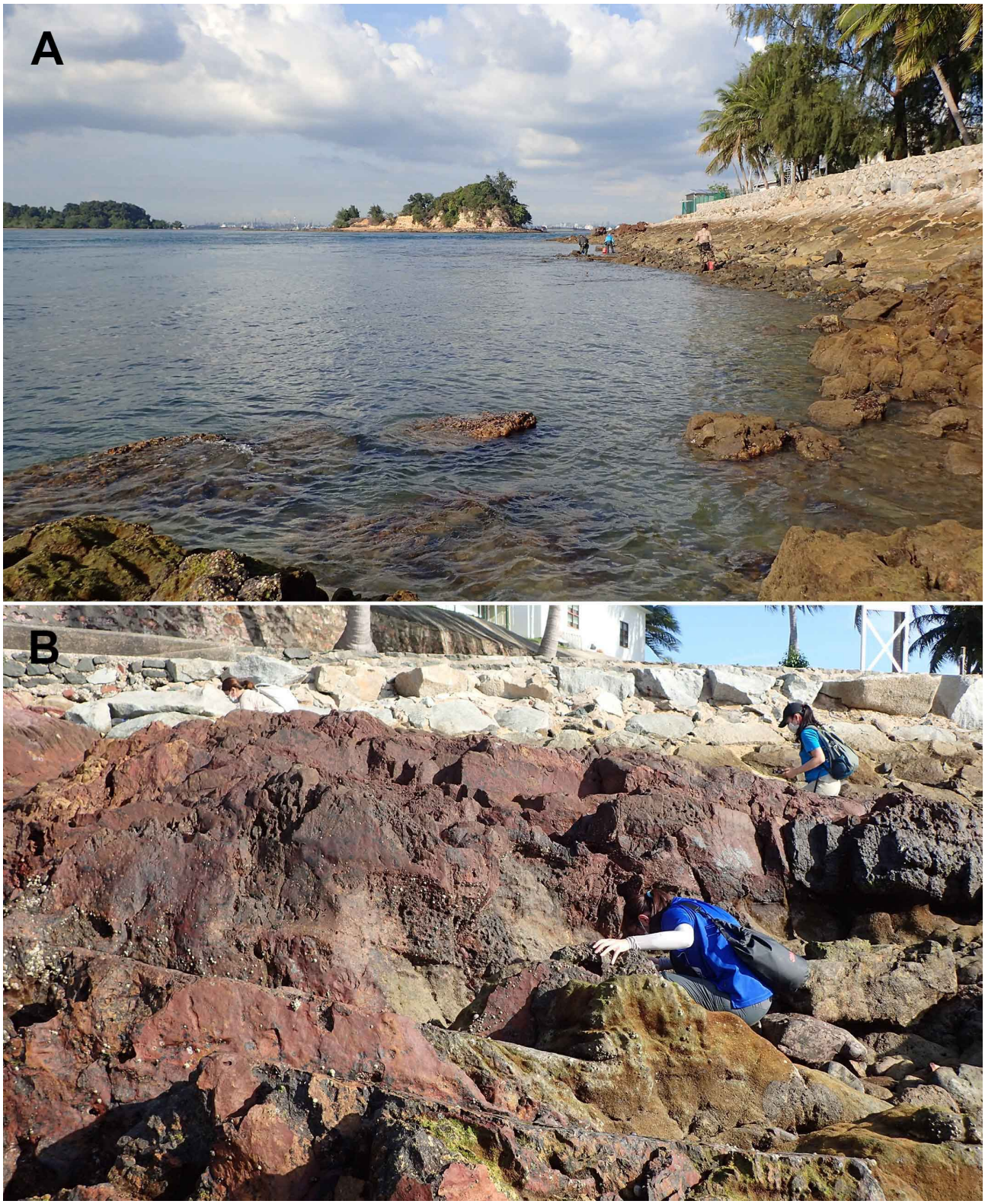

Fig. 6. A biodiversity survey of Pulau Satumu in 2020. A, participants of the survey checking out the base of the seawall on the western side of the islet (the adjacent islet in the background is Pulau Biola); B, searching the natural rocky shore for marine organisms. (Photographs by: Iffah Iesa)

DISCUSSION

Hitherto, 328 species of molluscs in 99 families have been recorded from Pulau Satumu and its surrounding waters (Tables 1–4). As expected, the class Gastropoda is the most speciose with 232 species in 69 families, followed by the Bivalvia with 92 species in 26 families. Only two species in two families have been recorded for the classes Polyplacophora and Cephalopoda. At least 38 species, 31 gastropods and seven bivalves do not seem to have been previously reported from Singapore and are thus regarded as first records (see Tables 2 and 3).

The three-day 2020 survey recorded 115 species (84 gastropods, 30 bivalves, one polyplacophoran) or some 35% of the total, including 43 (25 gastropods, 17 bivalves, one polyplacophoran) or around 13% that were not previously recorded from Pulau Satumu (i.e., neither represented in the literature nor existing material in the ZRC). Several of the previously unreported species such as *Scutellastra flexuosa*, *Collonista granulosa* and *Phosinella media* collected during the 2020 survey are represented by existing Singapore material in the ZRC although not necessarily from Pulau Satumu and have merely been overlooked thus far. Other first records found during the 2020 survey include, but are not limited to, *Chama dunkeri*, *Tylothais virgata* and *Aspella platylaevis*. These finds suggest that additional future surveys are necessary.

A major shortcoming for compilations of this nature is the impossibility to independently verify each and every existing record, whether in the literature or based on specimens in the collection. More than 70 species recorded from Pulau Satumu in the literature lack voucher material in the ZRC for verification. Most of these have been recorded from other localities in the Southern and Western Islands, and are therefore expected to occur around Pulau Satumu. Nevertheless, care must be taken to consider the sources of the records in future studies utilising the information herein. Records of only five species, namely *Nerita signata*, *Drupa albolabris*, *Drupa morum*, *Drupa ricinus* and *Morula uva*, are highlighted as being very likely erroneous (see remarks for the respective species). However, further studies are needed to determine the veracity of records that have not been found in recent decades. It is also expected that mistakes in our taxonomic decisions will become apparent over time as information from additional surveys and taxonomic re-evaluations become available. Despite the limitations, we are optimistic that the baseline information herein established enhances our knowledge of the malacofauna of Pulau Satumu and will be a useful resource for future studies.

CHECKLISTS OF THE MOLLUSCS

Mollusc species hitherto recorded from Pulau Satumu are detailed in checklists of the respective molluscan classes (Tables 1–4). The superfamilies, families, and species are systematically listed in the first column. The second column primarily note the bases of the records, with relevant notes included as additional remarks. Species names prefixed with an asterisk (*) represent a first published record of the species in Singapore, and a dagger symbol (†) is used to indicate records we consider doubtful, probably misidentified or mislocalised, and requiring substantiation.

Table 1. Polyplacophora of Pulau Satumu.

List of taxa	Records and remarks
Order Callochitonida	
Family Callochitonidae	
1. *Callochiton schilfi* Schwabe & Ruthensteiner, 2001 (Fig. 12A)	ZRC (ZRC.MOL.18523, coll. 2013 [CMBS; intertidal]).
Order Chitonida	
Superfamily Chitonoidea	
Family Chitonidae	
2. *Acanthopleura gemmata* (Blainville, 1825) (Fig. 7A)	2020 survey (ZRC.MOL.20939).

Table 2. Bivalvia of Pulau Satumu.

List of taxa	Records and remarks
Subclass Autobranchia	
Infraclass Pteriomorphia	
Order Mytilida	
Superfamily Mytiloidea	
Family Mytilidae	
1. *Leiosolenus lima* (Jousseaume in Lamy, 1919) (Fig. 12B)	ZRC (ZRC.MOL.9791, coll. 1966 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
2. *Leiosolenus malaccanus* (Reeve, 1857 [in 1857–1858b])	Chuang (1961, as *Lithophaga malaccana*); Morris & R. D. Purchon (1981, as *Lithophaga malaccana*).
3. *Leiosolenus nasutus* (Philippi, 1846c) (Fig. 12C)	Morris & R. D. Purchon (1981, as *Lithophaga nasuta*); ZRC (ZRC.MOL.9790, coll. 1966 [ex LCF]).
4. *Perna viridis* (Linnaeus, 1758) (Fig. 12D)	2020 survey (ZRC.MOL.22589).
5. *Septifer bilocularis* (Linnaeus, 1758)	Morris & R. D. Purchon (1981).
6. *Septifer excisus* (Wiegmann, 1837) (Fig. 12E)	2020 survey (ZRC.MOL.20933; ZRC.MOL.22590).
Order Arcida	
Superfamily Arcoidea	
Family Arcidae	
7. *Acar plicata* (Dillwyn, 1817a) (Fig. 13A)	2020 survey (ZRC.MOL.20923).
8. *Arca navicularis* Bruguière, 1789 (Fig. 13C)	ZRC (ZRC.MOL.9652, coll. 1968 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
9. *Barbatia amygdalumtostum* (Röding, 1798) (Fig. 13D)	Morris & R. D. Purchon (1981, as *Barbatia fusca*); ZRC (ZRC.MOL.16775, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17267, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17704, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17860, coll. 2013 [CMBS; intertidal]; ZRC.MOL.20146 [CMBS; dredged]); 2020 survey (ZRC.MOL.20924; ZRC.MOL.22586).
10. *Barbatia decussata* (G. B. Sowerby I, 1833) (Fig. 13E)	2020 survey (ZRC.MOL.22112).
11. *Barbatia foliata* (Forsskål in Niebuhr, 1775) (Fig. 13G)	Morris & R. D. Purchon (1981, as *Barbatia helblingi*); 2020 survey (ZRC.MOL.22113). *Barbatia helblingi* is currently a synonym of the Caribbean *Barbatia candida* (Helbling, 1779) (e.g., Huber, 2010). Morris & R. D. Purchon's (1981) record of that species is herein presumed to be referring to *Barbatia foliata* (Forsskål in Niebuhr, 1775), but could in fact be any or a mix of the other similar-looking conspecifics listed.
12. **Barbatia trapezina* (Lamarck, 1819) (Fig. 13F)	2020 survey (ZRC.MOL.22111). Although a first published record herein, this is a common species usually confused or lumped together with similar-looking congenerics, such as the preceding species. The *Barbatia* sp. in S. K. Tan & Yeo (2010: 289) is conspecific (S. K. Tan, unpub. data).
13. *Barbatia* sp.	Chuang (1961: 204). The undetermined *Barbatia* in Chuang (1961) is in all probability one or more of the other aforementioned *Barbatia* species herein except *Barbatia amygdalumtostum* (Röding, 1798).
14. *Lamarcka avellana* Lamarck, 1819	Morris & R. D. Purchon (1981, as *Arca avellana*).
15. *Lamarcka ocellata* Reeve, 1844 [in 1843–1844] (Fig. 13B)	2020 survey (ZRC.MOL.22585). We were unable to determine any notable conchological characteristics to reliably separate this species from *Lamarcka avellana* Lamarck, 1819, and consider them possibly synonymous. However, considering the limited material examined, the two are herein provisionally maintained as distinct following Huber (2010).
16. *Mesocibota* cf. *signata* (Dunker, 1868 [in 1858–1871]) (Fig. 13H)	ZRC (ZRC.MOL.21507, coll. 2013 [CMBS; dredged]).
Family Noetiidae	
17. *Arcopsis sculptilis* (Reeve, 1844 [in 1843–1844]) (Fig. 13I)	2020 survey (ZRC.MOL.20938).
18. **Sheldonella lateralis* (Reeve, 1844 [in 1843–1844]) (Figs. 13J, K)	ZRC (ZRC.MOL.21326, coll. 2013 [CMBS; dredged]; ZRC.MOL.21440, coll. 2013 [CMBS; dredged]). Herein a first published record, this species is evidently common with examples collected from various locations (Pulau Tekong, Pulau Semakau, Terumbu Raya etc.) during the CMBS.
Order Ostreida	
Superfamily Ostreoidea	
Family Gryphaeidae	
19. *Hyotissa hyotis* (Linnaeus, 1758) (Fig. 14A)	ZRC (ZRC.MOL.9704, coll. 1967 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
20. *Hyotissa inermis* (G. B. Sowerby II, 1871 [in 1870–1871]) (Fig. 14B)	ZRC (ZRC.MOL.9706, coll. 1967 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).

List of taxa	Records and remarks
Family Ostreidae	
21. *Alectryonella plicatula* (Gmelin, 1791)	Morris & R. D. Purchon (1981).
22. *Dendostrea cristata* (Born, 1778) (Fig. 14C)	2020 survey (ZRC.MOL.20934).
23. *Saccostrea cucullata* (Born, 1778) (Figs. 14D, E)	R. D. Purchon & Enoch (1954, as *Ostrea cucullata* [sic]); Chuang (1961, as *Ostrea cucullata* [sic]); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Morris & R. D. Purchon (1981, as *Ostrea cucullata* [sic]); ZRC (ZRC.MOL.8639, coll. 1998). Curiously, this species was not documented during the 2020 survey despite the number of past records, and only a single lot of this species, comprising a few non-matching valves, is present in the ZRC. It is highly possible that prior records may include the species herein determined as *Saccostrea scyphophilla* (Péron & Lesueur in Péron, 1807), which appears to be much more common at Pulau Satumu.
24. *Saccostrea scyphophilla* (Péron & Lesueur in Péron, 1807) (Figs. 7B, 14F)	ZRC (ZRC.MOL.9786, coll. 1963 [ex LCF]); 2020 survey (ZRC.MOL.20935).
Superfamily Pterioidea	
Family Isognomonidae	
25. *Isognomon isognomum* (Linnaeus, 1758)	R. D. Purchon & Enoch (1954); Chuang (1961); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Morris & R. D. Purchon (1981).
26. *Isognomon legumen* (Gmelin, 1791) (Fig. 15A)	2020 survey (ZRC.MOL.20929). There is a possibility of confusion of this taxon with *Isognomon albisoror* (Iredale, 1939). Although the latter has not been recorded from Singapore thus far, further research is needed to determine whether the Singapore records of *Isognomon legumen* (Gmelin, 1791), including the record herein, could be misidentified.
27. *Isognomon perna* (Linnaeus, 1767) (Fig. 15B)	2020 survey (ZRC.MOL.20928).
Family Malleidae	
28. *Malleus daemoniacus* Reeve, 1858 (Fig. 15C)	ZRC (ZRC.MOL.18041, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.24992).
29. *Malleus regula* (Forsskål in Niebuhr, 1775) (Fig. 15D)	R. D. Purchon & Enoch (1954); Chuang (1961); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Morris & R. D. Purchon (1981); 2020 survey (ZRC.MOL.20931).
Family Margaritidae	
30. *Pinctada albina* (Lamarck, 1819) (Fig. 16A)	2020 survey (ZRC.MOL.20932).
31. *Pinctada imbricata* Röding, 1798 (Fig. 16B)	ZRC (ZRC.MOL.10245, coll. 1978 [ex LCF]; ZRC.MOL.10253, coll. 1978 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
32. *Pinctada margaritifera* (Linnaeus, 1758) (Fig. 16C)	ZRC (ZRC.MOL.10251, coll. 1978 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
33. *Pinctada maxima* (Jameson, 1901) Fig. 16E)	ZRC (ZRC.MOL.10248, coll. 1978 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
34. *Pinctada nigra* (Gould, 1850c) (Fig. 16D)	ZRC (ZRC.MOL.10247, coll. 1978 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
Family Pteriidae	
35. *Pteria heteroptera* (Lamarck, 1819) (Fig. 17A)	ZRC (ZRC.MOL.10252, coll. 1978 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
36. *Pteria penguin* (Röding, 1798) (Fig. 17B)	ZRC (ZRC.MOL.10250, coll. 1974 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
Family Vulsellidae	
37. *Vulsella vulsella* (Linnaeus, 1758) (Fig. 17C)	ZRC (ZRC.MOL.21551, coll. 2013 [CMBS; dredged]). Determined with some doubt because the material comprises only a badly eroded valve and a few fragments.
Order Pectinida	
Superfamily Pectinoidea	
Family Pectinidae	
38. **Complicachlamys wardiana* Iredale, 1939 (Fig. 18A)	ZRC (ZRC.MOL.20140, coll. 2013 [CMBS; dredged]).
39. *Coralichlamys madreporarum* (G. B. Sowerby II, 1842) (Figs. 7C, 18B)	Morris & R. D. Purchon (1981, as *Chlamys madreporara*); 2020 survey (ZRC.MOL.20936).
40. *Decatopecten radula* (Linnaeus, 1758) (Fig. 18H)	ZRC (ZRC.MOL.8700, coll. 1930; ZRC.MOL.8697, coll. 2012).
41. *Excellichlamys histrionica* (Gmelin, 1791) (Figs. 18C, D)	ZRC (ZRC.MOL.20136, coll. 2013 [CMBS; dredged]; ZRC.MOL.20139, coll. 2013 [CMBS; dredged]).
42. **Mimachlamys cloacata* (Reeve, 1853 [in 1852–1853]) (Figs. 18E, F)	ZRC (ZRC.MOL.20141, coll. 2013 [CMBS; dredged]; ZRC.MOL.20144, coll. 2013 [CMBS; dredged]).

List of taxa	Records and remarks
43. *Pedum spondyloideum* (Gmelin, 1791)	Waller (1972); Morris & R. D. Purchon (1981, as *Pedum spondyloidum* [sic]).
44. *Volachlamys singaporina* (G. B. Sowerby II, 1842) (Fig. 18G)	ZRC (ZRC.MOL.20137, coll. 2013 [CMBS; dredged]).
Family Spondylidae	
45. *Spondylus echinatus* Schreibers, 1793 (Fig. 19A)	2020 survey (ZRC.MOL.22313). Rather small specimen determined with some uncertainty.
46. *Spondylus versicolor* Schreibers, 1793 (Fig. 19B)	ZRC (ZRC.MOL.5720, coll. 2014).
47. *Spondylus* sp.	Chuang (1961). Neither a description nor figures were provided by Chuang (1961) to allow determination to possible species.
Superfamily Plicatuloidea	
Family Plicatulidae	
48. *Plicatula australis* Lamarck, 1819 (Fig. 19C)	ZRC (ZRC.MOL.9812, coll. 1968 [ex LCF]); ZRC (ZRC.MOL.21458, coll. 2013 [CMBS; dredged]; 2020 survey (ZRC.MOL.21779).
Order Limida	
Superfamily Limoidea	
Family Limidae	
49. *Ctenoides annulatus* (Lamarck, 1819) (Fig. 20A)	ZRC (ZRC.MOL.8033, coll. 1930).
50. *Lima vulgaris* (Link, 1807) (Fig. 20B)	Morris & R. D. Purchon (1981, as *Lima lima*); ZRC (ZRC.MOL.25007, coll. 1958 [ex LCF]); ZRC.MOL.21284–21285, coll. 2013 [CMBS; dredged]).
51. *Limaria basilanica* (A. Adams & Reeve, 1850 [in 1848–1850]) (Fig. 20C)	ZRC (ZRC.MOL.25008, coll. 1958 [ex LCF]; ZRC.MOL.8055, coll. 2014).
52. *Limaria fragilis* (Gmelin, 1791) (Fig. 20D)	Morris & R. D. Purchon (1981); ZRC (ZRC.MOL.9709, coll. 1958 [ex LCF]; ZRC.MOL.8063, coll. 2012; ZRC.MOL.16935, coll. 2013; ZRC.MOL.16952, coll. 2013; ZRC.MOL.17577, coll. 2013); 2020 survey (ZRC.MOL.20930).
53. *Limatula bullata* (Born, 1778) (Fig. 20E)	ZRC (ZRC.MOL.21283, coll. 2013 [CMBS; dredged]; ZRC.MOL.21322, coll. 2013, coll. 2013 [CMBS; dredged]).
Infraclass Heteroconchia	
Subterclass Archiheterodonta	
Order Carditida	
Superfamily Carditoidea	
Family Carditidae	
54. *Beguina semiorbiculata* (Linnaeus, 1758) (Fig. 21A)	R. D. Purchon (1958); Morris & R. D. Purchon (1981); 2020 survey (ZRC.MOL.20925).
55. *Cardita variegata* Bruguière, 1792 (Figs. 8A, 21B)	Morris & R. D. Purchon (1981); ZRC (ZRC.MOL.9669, coll. 1967 [ex LCF]; ZRC.MOL.17858, coll. 2013 [CMBS; intertidal]; ZRC.MOL.20138, coll. 2013 [CMBS; dredged]); 2020 survey (ZRC.MOL.20926; ZRC.MOL.22587).
Subterclass Euheterodonta	
Superorder Imparidentia	
Order Adapedonta	
Superfamily Solenoidea	
Family Solenidae	
56. *Solen soleneae* von Cosel, 2002 (Figs. 21C, D)	ZRC (ZRC.MOL.17537, coll. 2013 [CMBS; dredged]; ZRC.MOL20145, coll. 2013 [CMBS; dredged]).
Order Cardiida	
Superfamily Cardioidea	
Family Cardiidae	
57. *Acrosterigma transcendens* (Melvill & Standen, 1899) (Fig. 22A)	ZRC (ZRC.MOL.21338, coll. 2013 [CMBS; dredged]).
58. *Corculum cardissa* (Linnaeus, 1758)	Morris & R. D. Purchon (1981).
59. *Hippopus hippopus* (Linnaeus, 1758)	R. D. Purchon & Enoch (1954); R. D. Purchon (1955); Chuang (1961); Morris & R. D. Purchon (1981).
60. *Maoricardium setosum* (Redfield, 1846) (Fig. 22B)	ZRC (ZRC.MOL.21521, coll. 2013 [CMBS; dredged]; ZRC.MOL.21522, coll. 2013 [CMBS; dredged]). Tiny valves determined with some uncertainty.
61. *Tridacna crocea* Lamarck, 1819 (Figs. 22C, D)	R. D. Purchon & Enoch (1954); R. D. Purchon (1955); Chuang (1961); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Morris & R. D. Purchon (1981); Guest et al. (2008); Neo & Todd (2012; 2013); ZRC (ZRC.MOL.23616, coll. 1952).
62. *Tridacna maxima* (Röding, 1798)	Guest et al. (2008); Neo & Todd (2013 [after Guest et al., 2008]).
63. *Tridacna squamosa* Lamarck, 1819 (Fig. 8C)	R. D. Purchon & Enoch (1954); R. D. Purchon (1955); Chuang (1961); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Morris & R. D. Purchon (1981); Guest et al. (2008); Neo & Todd (2012); 2020 survey (not collected).

List of taxa	Records and remarks
Superfamily Tellinoidea	
Family Psammobiidae	
64. *Asaphis violascens* (Forsskål in Niebuhr, 1775)	Morris & R. D. Purchon (1981, as *Asaphis deflorata*).
Family Tellinidae	
65. *Cadella* cf. *diluta* (E. A. Smith, 1885) (Fig. 23A)	ZRC (ZRC.MOL.21351, coll. 2013 [CMBS; dredged]).
66. *Clathrotellina* sp. (Fig. 23B)	ZRC (ZRC.MOL.21460, coll. 2013 [CMBS; dredged]; ZRC.MOL.21520, coll. 2013 [CMBS; dredged]). The generic assignment of this yet undetermined species is provisional.
67. *Herouvalia caelata* (A. Adams, 1854) (Fig. 23C)	ZRC (ZRC.MOL.21529, coll. 2013 [CMBS; dredged]).
68. *Jactellina clathrata* (Deshayes in Deshayes & Milne-Edwards, 1835) (Fig. 23D)	ZRC (ZRC.MOL.22252, coll. 2013 [CMBS; intertidal]).
69. *Macalia bruguieri* (Hanley, 1844 [in 1844–1845]) (Fig. 23F)	ZRC (ZRC.MOL.21550, coll. 2013 [CMBS; dredged]).
70. *Pinguitellina* sp. (Fig. 23E)	ZRC (ZRC.MOL.16786, coll. 2013 [CMBS; dredged]).
Order Galeommatida	
Superfamily Galeommatoidea	
Family Galeommatidae	
71. *Scintilla hanleyi* Deshayes, 1856 (Fig. 23G)	ZRC (ZRC.MOL.9696, coll. 1967 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
72. *Scintilla cuvieri* Deshayes, 1856 (Fig. 23H)	ZRC (ZRC.MOL.16785, coll. 2013 [CMBS; intertidal]).
Order Venerida	
Superfamily Chamoidea	
Family Chamidae	
73. *Chama asperella* Lamarck, 1819 (Fig. 24B)	2020 survey (ZRC.MOL.24990; ZRC.MOL.25006).
74. *Chama brassica* Reeve, 1847 (Fig. 24A)	2020 survey (ZRC.MOL.20927).
75. *Chama* cf. *croceata* Lamarck, 1819 (Fig. 24D)	2020 survey (ZRC.MOL.23504).
76. **Chama dunkeri* Lischke, 1870 (Fig. 24C)	2020 survey (ZRC.MOL.22311).
77. *Chama lazarus* Linnaeus, 1758 (Fig. 24F)	Morris & R. D. Purchon (1981); ZRC (ZRC.MOL.9684, no date [ex LCF]).
78. *Chama pacifica* Broderip, 1835b (Fig. 24E)	2020 survey (ZRC.MOL.22312).
79. *Chama* sp.	Chuang (1961: 205). This undetermined species is likely to be one or more of the abovementioned species, but confirmation may not be possible. Chuang (1961) did not provide a description that could allow a tentative specific determination.
Superfamily Mactroidea	
Family Mactridae	
80. *Oxyperas transversum* (Reeve, 1854) (Figs. 25A, B)	ZRC (ZRC.MOL.21342, coll. 2013 [CMBS; dredged]; ZRC.MOL.21508, coll. 2013 [CMBS; dredged]; ZRC.MOL.21558, coll. 2013 [CMBS; dredged]).
Superfamily Veneroidea	
Family Veneridae	
81. **Dosinia histrio* (Gmelin, 1791) (Fig. 25C)	ZRC (ZRC.MOL.21334, coll. 2013 [CMBS; dredged]).
82. *Gafrarium dispar* (Holten, 1802) (Figs. 25D, E)	Morris & R. D. Purchon (1981); 2020 survey (ZRC.MOL.21780).
83. *Globivenus toreuma* (Gould, 1850b) (Fig. 25F)	ZRC (ZRC.MOL.21560, coll. 2013 [CMBS; dredged).
84. *Hyphantosoma* cf. *intricatum* (Dautzenberg, 1908) (Fig. 26A)	ZRC (ZRC.MOL.21350, coll. 2013 [CMBS; dredged]).
85. *Irus irus* (Linnaeus, 1758) (Fig. 26B)	ZRC (ZRC.MOL.21340, coll. 2013 [CMBS; dredged]). *Irus macrophylla* (Deshayes, 1853 [in 1853–1855]) may prove to be a more suitable name for this species, but we provisionally follow Huber (2010) in regarding the two to be synonymous.
86. *Pitar* sp. (Fig. 26C)	ZRC (ZRC.MOL.21525, coll. 2013 [CMBS; dredged]).
87. *Protapes gallus* (Gmelin, 1791) (Fig. 26D)	ZRC (ZRC.MOL.21524, coll. 2013 [CMBS; dredged]). Tiny specimen identified with some uncertainty.
88. **Timoclea subnodulosa* (Hanley, 1845) (Figs. 26E, F)	ZRC ((ZRC.MOL.17796, coll. 2013 [CMBS; dredged]; ZRC.MOL.21523, coll. 2013 [CMBS; dredged]; ZRC.MOL.21336, coll. 2013 [CMBS; dredged]).

List of taxa	Records and remarks
89. *Venerupis aspera* (Quoy & Gaimard, 1835 [in 1832–1835]) (Fig. 26G)	2020 survey (ZRC.MOL.21781).
Order Myida	
Superfamily Myoidea	
Family Corbulidae	
90. *Corbula* cf. *ovalina* Lamarck, 1818 (Fig. 26H)	ZRC (ZRC.MOL.21441, coll. 2013 [CMBS; dredged]).
Order Gastrochaenida	
Superfamily Gastrochaenoidea	
Family Gastrochaenidae	
91. *Dufoichaena dentifera* (Dufo, 1840)	R. D. Purchon (1954, as *Gastrochaena cuneiformis*); Morris & R. D. Purchon (1981, as *Gastrochaena cuneiformis*). The records of *Gastrochaena cuneiformis* Spengler, 1783, in R. D. Purchon (1954) and Morris & R. D. Purchon (1981) are regarded to be misidentified *Dufoichaena dentifera* (Dufo, 1840) (see also Carter et al., 2008).
Superorder Anomalodesmata	
Superfamily Clavagelloidea	
Family Clavagellidae	
92. *Bryopa lata* (Broderip, 1835a) (Fig. 26I)	ZRC (ZRC.MOL.10093, coll. 2013 [CMBS; dredged]).

Table 3. Gastropoda of Pulau Satumu.

List of taxa	Records and remarks
Subclass Patellogastropoda	
Superfamily Lottioidea	
Family Lottiidae	
1. *Lottia* sp. (Fig. 27A)	ZRC (ZRC.MOL.24595, coll. 1969 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
2. *Patelloida heroldi* (Dunker, 1861) (Figs. 27B, C)	ZRC (ZRC.MOL.10377, coll. 1969 [ex LCF]); 2020 survey (ZRC.MOL.22606).
3. *Patelloida saccharina* (Linnaeus, 1758) (Figs. 27D, E)	Sanpanich & S. K. Tan (2016, as *Patelloida saccharinoides*); 2020 survey (ZRC.MOL20895; ZRC.MOL.25005). Pending a taxonomic treatment to properly delimit the species within the *Patelloida saccharina* species complex (see Nakano & Sasaki, 2011), *Patelloida saccharina* is provisionally accepted to be the correct name for the local species usually reported as *Patelloida saccharinoides* Habe & Kosuge, 1966.
Superfamily Patelloidea	
Family Nacellidae	
4. *Cellana radiata* (Born, 1778) (Fig. 27G)	R. D. Purchon & Enoch (1954, as *Acmaea bombayana*); Chuang (1961, as *Acmaea bombayana*); R. D. Purchon (1977, as *Acmaea bombayana* [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981); ZRC (ZRC.MOL.10377, coll. 1969 [ex LCF]); 2020 survey (ZRC.MOL.20906).
Family Patellidae	
5. **Scutellastra flexuosa* (Quoy & Gaimard, 1834 [in 1832–1835]) (Fig. 27F)	2020 survey (ZRC.MOL.20912). Although herein the first published record, a specimen (ZRC.MOL.10378) collected from Cyrene Reef in 1960 is also present in the Lim Chuan Fong collection in the ZRC.
Subclass Vetigastropoda	
Order Lepetellida	
Superfamily Fissurelloidea	
Family Fissurellidae	
6. **Diodora quadriradiata* (Reeve, 1850 [in 1849–1850]) (Fig. 28A)	ZRC (ZRC.MOL.21346, coll. 2013 [CMBS; dredged]).
7. *Diodora* cf. *ruppellii* (G. B. Sowerby I, 1835) (Fig. 28B)	ZRC (ZRC.MOL.21344, coll. 2013 [CMBS; dredged]).
8. *Diodora singaporensis* (Reeve, 1850 [in 1849–1850]) (Figs. 28C, D)	Way & R. D. Purchon (1981); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22552, coll. 1969 [ex LCF]).
9. *Emarginella incisura* (A. Adams, 1852) (Fig. 28E)	S. K. Tan et al. (2016); ZRC (ZRC.MOL.7396, coll. 2016).
10. *Scutus unguis* (Linnaeus, 1758) (Fig. 28F)	2020 survey (ZRC.MOL.20894).

List of taxa	Records and remarks
Superfamily Haliotoidea	
Family Haliotidae	
11. *Haliotis clathrata* Reeve, 1846a (Figs. 29A, B)	Chuang (1961, as *Haliotis ruber clathrata*); Chuang (1973, as *Haliotis ruber*); Stewart & Geiger (1999); Sanpanich & S. K. Tan (2015, as *Haliotis planata*); ZRC (ZRC.MOL.20611, coll. 1955; ZRC.MOL.22553, coll. 1967 [ex LCF]); ZRC.MOL.17159, coll. 2013 [CMBS; intertidal]; 2020 survey (ZRC.MOL.22601).
12. *Haliotis ovina* Gmelin, 1791	Chuang (1973).
13. *Haliotis pustulata* Reeve, 1846a	Way & R. D. Purchon (1981); R. D. Purchon & D. E. A. Purchon (1981 [undetermined species presumed conspecific with *Haliotis pustulata* in Way & R. D. Purchon, 1981]). This species should probably be treated as an unconfirmed record because of the possible confusion with the similar *Haliotis clathrata* Reeve, 1846a. It is also likely that the *Haliotis clathrata* from Raffles Lighthouse in Stewart & Geiger (1999) are the same specimens reported as *Haliotis pustulata* in Way & R. D. Purchon (1981 [see also R. D. Purchon & D. E. A. Purchon, 1981]).
Order Seguenziida	
Superfamily Seguenzioidea	
Family Chilodontaidae	
14. *Euchelus asper* (Gmelin, 1791) (Fig. 29D)	ZRC (ZRC.MOL.19195, coll. 2013 [CMBS; dredged]).
15. *Euchelus atratus* (Gmelin, 1791) (Fig. 29C)	Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.16998, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17175, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20888).
16. *Herpetopoma exasperatum* (A. Adams, 1853) (Fig. 29E)	2020 survey (ZRC.MOL.24074).
17. **Vaceuchelus foveolatus* (A. Adams, 1853) (Fig. 29F)	ZRC (ZRC.MOL.23495, coll. 2013 [CMBS; dredged]). Herein a first published record, this species has also been collected from the strandline of the beach at St. John's Island (S. K. Tan, unpub. data).
18. **Vaceuchelus* sp. (Fig. 29G)	ZRC (ZRC.MOL.19190, coll. 2013 [CMBS; dredged]). This species has also been collected together with the preceding species from the strandline of the beach at St. John's Island (S. K. Tan, unpub. data).
Order Trochida	
Superfamily Trochoidea	
Family Angariidae	
19. *Angaria delphinus* (Linnaeus, 1758) (Fig. 30A)	Way & R. D. Purchon (1981); S. K. Tan & Low (2013 [after Way & R. D. Purchon, 1981]); 2020 survey (ZRC.MOL.20882).
Family Calliostomatidae	
20. *Calliostoma scobinatum* (Reeve, 1863) (Fig. 30C)	ZRC (ZRC.MOL.21127, coll. 1969 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
Family Colloniidae	
21. **Collonista granulosa* (Pease, 1868) (Fig. 30D)	ZRC (ZRC.MOL.22545, coll. 1969 [ex LCF]); 2020 survey (ZRC.MOL.22597; ZRC.MOL.24995). A first record, this species appears to be moderately common, but has probably been overlooked thus far because of its small size. *Collonista arsinoensis* (Issel, 1869) described from the Red Sea is very similar and possibly synonymous.
Family Skeneidae	
22. *Leucorhynchia tryoni* Pilsbry, 1891 (Figs. 30E, F)	ZRC (ZRC.MOL.19115, coll. 2013 [CMBS; dredged]; ZRC.MOL.19194, coll. 2013 [CMBS; dredged]). The figures of this species herein are probably the first from its type locality Singapore since its description.
Family Tegulidae	
23. *Rochia maxima* (Koch in Philippi, 1844) (Figs. 8B, 30B)	R. D. Purchon & Enoch (1954, as *Trochus niloticus*); Chuang (1961, as *Trochus niloticus*); R. D. Purchon (1977, as *Trochus niloticus* [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981, as *Trochus niloticus*); ZRC (ZRC.MOL.15789, coll. 2019 [SCUBA dive]; 2020 survey (ZRC.MOL.20918; ZRC.MOL.21810; ZRC.MOL.24988). This species is commonly misidentified as *Trochus niloticus*, now *Rochia nilotica* (Linnaeus, 1767) in the local literature. It is highly probable that all historical Singapore records of that species are instead *Rochia maxima* (Koch in Philippi, 1844). The most obvious differences in shell characteristics are the convex base and projecting last whorl in large specimens of *Rochia nilotica*. Based on specimens available for examination, the distinctly grooved suture in *Rochia maxima* appears to be a consistent character.

List of taxa	Records and remarks
24. *Tectus pyramis* (Born, 1778)	R. D. Purchon & Enoch (1954, as *Trochus pyramis*); Chuang (1961, as *Trochus pyramis*); R. D. Purchon (1977, as *Trochus pyramis* [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981, as *Trochus pyramis*). This species appears to be exceedingly rare in Singapore today. Two lots, collected from Pulau Sakijang Pelepah and Pulau Hantu in the 1960s, are present in the ZRC, but the species has not been collected nor reported from Singapore in the past few decades.
Family Trochidae	
25. *Chrysostoma paradoxum* (Born, 1780) (Fig. 31A)	Sanpanich & S. K. Tan (2016); 2020 survey (ZRC.MOL.22619).
26. *Clanculus bronni* (Dunker, 1860) (Fig. 31D)	ZRC (ZRC.MOL.22578, coll. 1969 [ex LCF]); 2020 survey (ZRC.MOL.24081).
27. *Clanculus margaritarius* (Philippi, 1846b) (Fig. 31C)	ZRC (ZRC.MOL.11624, coll. 1937; ZRC.MOL.22579, coll. 1969 [ex LCF]).
28. *Ethminolia* sp. (Fig. 31E)	ZRC (ZRC.MOL.25015, coll. 1969 [ex LCF]). Considering the possibility of the examined lot being mislabelled, it is probably preferable to treat this an unconfirmed record requiring verification. See notes on the Lim Chuan Fong collection (p. 7).
29. **Jujubinus polychroma* (A. Adams, 1853) (Fig. 31F)	2020 survey (ZRC.MOL.25004). Herein the first published record, this species is probably not rare as it has also been found amongst debris and shell grit along strandlines both on the main island of Singapore and the southern islands (e.g., Pulau Hantu, Kusu, St. John's) (S. K. Tan, unpub. data).
30. *Monodonta labio* (Linnaeus, 1758) (Figs. 9A, 31B)	R. D. Purchon & Enoch (1954); Chuang (1961); R. D. Purchon (1977; after R. D. Purchon & Enoch, 1954); Way & R. D. Purchon (1981); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22581, coll, 1959 [ex LCF]; ZRC.MOL.17147, coll. 2013 [CMBS; intertidal]; ZRC.MOL.22260, coll.2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20919; ZRC.MOL.21777).
31. *Stomatella impertusa* (Burrow, 1815) (Fig. 31G)	ZRC (ZRC.MOL.22582, coll. 1969 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
32. *Trochus maculatus* Linnaeus, 1758 (Fig. 31H)	R. D. Purchon & Enoch (1954, as *Trochus gibberula*), Chuang (1961, as *Trochus gibberula*); R. D. Purchon (1977, as *Trochus gibberula* [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.17139, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17265, coll. 2013 [CMBS; intertidal]; ZRC.MOL.18359, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20921; ZRC.MOL.21776; ZRC.MOL.22933).
Family Turbinidae	
33. *Astralium calcar* (Linnaeus, 1758) (Fig. 32A)	ZRC (ZRC.MOL.5719, coll. 2014); 2020 survey (ZRC.MOL.21778).
34. *Turbo articulatus* Reeve, 1848 (Figs. 32B–D)	R. D. Purchon & Enoch (1954, as *Turbo intercostalis*); Chuang (1961, as *Turbo intercostalis*); R. D. Purchon (1977, as *Turbo intercostalis* [after R. D. Purchon & Enoch, 1954]); Sanpanich & S. K. Tan (2016, as *Turbo intercostalis*); ZRC (ZRC.MOL.22583, coll. 1969 [ex LCF]; ZRC.MOL.16988, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20920). Although usually identified as *Turbo intercostalis* Menke in Philippi, 1846 [in 1846–1855] in the local literature, we are confident that this species is herein correctly determined and disagree with the treatment of *Turbo articulatus* as a nomen dubium by Alf & Kreipl (2003). Our material agrees well with the original description and illustrations in Reeve (1848), while being clearly very different from the lectotype illustration of *Turbo intercostalis* (i.e., Philippi, 1846–1855: pl. 11, fig. 3) designated by Williams, (2008).
35. *Turbo bruneus* (Röding, 1798) (Figs. 9B, 32E, F)	Way & R. D. Purchon (1981); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.16991, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20922; ZRC.MOL.22934). This species has often been confused with *Turbo articulatus* Reeve, 1848, in the literature (as *Turbo intercostalis*) and vice versa. Historical records of either may therefore include both species.
36. *Turbo petholatus* Linnaeus, 1758 (Fig. 32G)	H. H. Tan & S. K. Tan (2014); ZRC (ZRC.MOL.5689, coll. 2011; ZRC.MOL.5718, coll. 2014; ZRC.MOL.5721, coll. 2014). This species appears to be rare in Singapore except around Pulau Satumu where it seems to be moderately common on the subtidal reefs (S. K. Tan unpub. data).

List of taxa	Records and remarks
Subclass Neritimorpha **Order Cycloneritida** **Superfamily Neritoidea**	
Family Neritidae	
37. *Nerita albicilla* Linnaeus, 1758 (Figs. 9D, 33A, B)	Way & R. D. Purchon (1981); S. K. Tan & Clements (2008 [after Way & R. D. Purchon, 1981]); ZRC (ZRC.MOL.22567, coll. 1959 [ex LCF]); 2020 survey (ZRC.MOL.20907; ZRC.MOL.22930).
38. *Nerita articulata* Gould, 1847 (Fig. 33C)	ZRC (ZRC.MOL.8854, coll. 1998). Eichhorst (2016) considered *Nerita articulata* Gould, 1847, a nomen dubium. However, we disagree with his assessment and uphold the validity of this taxon after having examined specimens from its type locality Burma (Myanmar) and throughout its distribution.
39. *Nerita chamaeleon* Linnaeus, 1758 (Figs. 33E, F)	Chuang (1961); 2020 survey (ZRC.MOL.20908; ZRC.MOL.22614).
40. *Nerita costata* Gmelin, 1791 (Fig. 33D)	2020 survey (ZRC.MOL.22321).
41. *Nerita histrio* Linnaeus, 1758 (Figs. 33G, H)	ZRC (ZRC.MOL.22568, coll. 1959 [ex LCF]); 2020 survey (ZRC.MOL.22322).
42. *Nerita litterata* Gmelin, 1791 (Figs. 33I, J)	ZRC (ZRC.MOL.22569, coll. 1959 [ex LCF]); 2020 survey (ZRC.MOL.20909; ZRC.MOL.22931).
43. †*Nerita signata* Lamarck, 1822a	Way & R. D. Purchon (1981); S. K. Tan & Clements (2008 [after Way & R. D. Purchon, 1981]). We consider the original record of this species in Way & R. D. Purchon (1981) dubious, and very likely misidentified *Nerita histrio* Linnaeus, 1758 (see also S. K. Tan & Clements, 2008). This species should probably be removed from the local faunal records unless its presence can be proven.
44. *Nerita undata* Linnaeus, 1758 (Figs. 7A, 9E, 33K, L)	R. D. Purchon & Enoch (1954); Chuang (1961); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981); S. K. Tan & Clements (2008 [after Way & R. D. Purchon, 1981]); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22570, coll. 1959 [ex LCF]; ZRC.MOL.16996, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.22323).
Family Phenacolepadidae	
45. *Plesiothyreus cinnamomeus* (Gould, 1846a)	Way & R. D. Purchon (1981, as *Phenacolepas cinnamomea*).
Subclass Caenogastropoda **[Caenogastropoda order unassigned]** **Superfamily Cerithioidea**	
Family Cerithiidae	
46. *Cerithium columna* G. B. Sowerby I, 1834 [in 1821–1834] (Fig. 34A)	2020 survey (ZRC.MOL.22591).
47. *Cerithium nodulosum* Bruguière, 1792 (Fig. 34B)	Chuang (1973, as *Cerithium nodulosus*); ZRC (ZRC.MOL.7398, coll. 2016).
48. *Cerithium traillii* G. B. Sowerby II, 1855	Sanpanich & S. K. Tan (2016).
49. *Cerithium zonatum* (W. Wood, 1828) (Figs. 34C, D)	Sanpanich & S. K. Tan (2016); 2020 survey (ZRC.MOL.20883; ZRC.MOL.22592).
50. *Clypeomorus bifasciata* (G. B. Sowerby II, 1855) (Figs. 34I, J)	R. D. Purchon & Enoch (1954, as *Cerithium morus* [not of Bruguière, 1792; see Houbrick, 1985]); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Houbrick (1985, as *Clypeomorus bifasciata bifasciata*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.21163, coll. 1959); 2020 survey (ZRC.MOL.20884; ZRC.MOL.22593).
51. *Clypeomorus petrosa* (W. Wood, 1828) (Figs. 10A, 34E–H)	Houbrick (1985, as *Clypeomorus petrosa chemnitziana*); ZRC (ZRC.MOL.21157, coll. 1959); 2020 survey (ZRC.MOL.20885; ZRC.MOL.22594). Specimens from Pulau Satumu that appear to be intergrades between the subspecies *Clypeomorus petrosa petrosa* (W. Wood, 1828) and *Clypeomorus petrosa chemnitziana* (Pilsbry, 1901) were treated as the latter by Houbrick (1985), but we consider it highly improbable that two distinct subspecies could occur in both sympatry and syntopy and consider them merely variations of the nominotypical subspecies.
52. *Clypeomorus purpurastoma* Houbrick, 1985 (Figs. 34K, L)	Houbrick (1985); 2020 survey (ZRC.MOL.20886; ZRC.MOL.22595).
53. *Clypeomorus irrorata* (Gould, 1849)	Sanpanich & S. K. Tan (2016).
54. *Rhinoclavis sinensis* (Gmelin, 1791) (Figs. 34M, N)	Houbrick (1978); Way & R. D. Purchon (1981); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22257, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20887; ZRC.MOL.22596).
Family Dialidae	
55. *Diala semistriata* (Philippi, 1849)	Ponder & de Keyzer (1992).

List of taxa	Records and remarks
Family Modulidae	
56. *Indomodulus tectum* (Gmelin, 1791) (Fig. 35A)	S. K. Tan et al. (2016); ZRC (ZRC.MOL.7397, coll. 2016).
Family Planaxidae	
57. *Fissilabia decollata* (Quoy & Gaimard, 1833 [in 1832–1835]) (Fig. 35B)	ZRC (ZRC.MOL.22572, coll. 1959 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
58. *Planaxis sulcatus* (Born, 1778) (Figs. 10B, 35C, D)	R. D. Purchon & Enoch (1954); Chuang (1961); Chuang (1973 [after R. D. Purchon & Enoch, 1954; Chuang, 1961]); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981); S. K. Tan & Low (2014); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22573, coll. 1959 [ex LCF]; ZRC.MOL.22205, coll. 2013 [CMBS; intertidal]; ZRC.MOL.22258, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20915).
Family Siliquariidae	
59. *Tenagodus armatus* (Habe & Kosuge, 1967) (Figs. 35E, F)	Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.20076, coll. 2013 [CMBS; dredged]; ZRC.MOL.23492, coll. 2013 [CMBS; dredged]; ZRC.MOL.23494, coll. 2013 [CMBS; dredged]).
60. *Tenagodus ponderosus* Mörch, 1861 (Fig. 35G)	ZRC (ZRC.MOL.23493, coll. 2013 [CMBS; dredged]).
61. *Tenagodus* cf. *sundaensis* Dharma, 2011	S. C. Lim & K. S. Tan (2016).
62. *Tenagodus* sp. (Fig. 35H)	ZRC (ZRC.MOL.18442, coll. 2013 [CMBS; dredged]).
Superfamily Epitonioidea	
Family Epitoniidae	
63. *Cycloscala hyalina* (G. B. Sowerby II, 1844) (Fig. 36A)	ZRC (ZRC.MOL.25037, coll. 2013 [CMBS; dredged]).
64. **Epitonium angustum* (Dunker, 1861) (Fig. 36E)	ZRC (ZRC.MOL.25039, coll. 2013 [CMBS; dredged]).
65. **Epitonium minorum* (Iredale, 1936) (Fig. 36F)	ZRC (ZRC.MOL.25038, coll. 2013 [CMBS; dredged]).
66. **Epitonium moolenbeeki* van Aartsen, 1996 (Figs. 36B–D)	ZRC (ZRC.MOL.18415, coll. 2013 [CMBS; dredged]; ZRC.MOL.19126, coll. 2013 [CMBS; dredged]).
67. *Epitonium replicatum* (G. B. Sowerby II, 1844) (Figs. 36G, H)	ZRC (ZRC.MOL.25040, coll. 2013 [CMBS; dredged]).
68. *Epitonium* cf. *townsendi* (Melvill & Standen, 1903b) (Fig. 36I)	ZRC (ZRC.MOL.25041, coll. 2013 [CMBS; dredged]).
Superfamily Triphoroidea	
Family Triphoridae	
69. *Coriophora fusca* (Dunker, 1860) (Fig. 36J)	ZRC (ZRC.MOL.22577, coll. 1969 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
70. **Mastonia fulvescens* (Hervier, 1898) (Fig. 36K)	ZRC (ZRC.MOL.19197, coll. 2013 [CMBS; dredged]).
71. *Triphora subulata* Thiele, 1930 (Fig. 36L)	2020 survey (ZRC.MOL.22617).
Order Littorinimorpha	
Superfamily Capuloidea	
Family Capulidae	
72. **Capulus violaceus* Angas, 1867 (Fig. 38A)	ZRC (ZRC.MOL.21286, coll. 2013 [CMBS; dredged]).
73. *Separatista separatista* (Dillwyn, 1817b) (Fig. 38B)	ZRC (ZRC.MOL.23491, coll. 2013 [CMBS; dredged]).
Superfamily Cypraeoidea	
Family Cypraeidae	
74. *Bistolida hirundo* (Linnaeus, 1758)	Way & R. D. Purchon (1981, as *Cypraea hirundo*).
75. *Bistolida stolida* (Linnaeus, 1758) (Fig. 37A)	ZRC (ZRC.MOL.22550, coll. 1977 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
76. *Cypraea tigris* Linnaeus, 1758	Chuang (1961).
77. *Eclogavena quadrimaculata* (J.E. Gray, 1824)	Way & R. D. Purchon (1981, as *Cypraea quadrimaculata*).
78. *Erronea errones* (Linnaeus, 1758) (Fig. 37B)	Chuang (1961); Way & R. D. Purchon (1981, as *Cypraea errones*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.5902, coll. 1998; ZRC.MOL.17047, coll. 2013; ZRC.MOL.17071, coll. 2013); 2020 survey (ZRC.MOL.20893).
79. *Erronea ovum* (Gmelin, 1791) (Fig. 37C)	ZRC (ZRC.MOL.17055, coll. 2013 [CMBS; intertidal]).
80. *Mauritia arabica* (Linnaeus, 1758) (Fig. 37E)	Chuang (1961, as *Cypraea arabica*); Way & R. D. Purchon (1981, as *Cypraea arabica*); ZRC (ZRC.MOL.22551, coll. 1968 [ex LCF]; ZRC.MOL.22241, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.22320).
81. *Mauritia eglantina* (Duclos, 1833)	Chuang (1973, as *Cypraea* (*Arabica*) *eglantina*).

List of taxa	Records and remarks
82. *Purpuradusta gracilis* (Gaskoin, 1849) (Fig. 37D)	ZRC (ZRC.MOL.20180, coll. 2013 [CMBS; dredged]). The only specimen examined is quite eroded, so its identity is determined with some doubt.
Family Ovulidae	
83. *Crenavolva leopardus* Fehse, 2002 (Fig. 38C)	ZRC (ZRC.MOL.19130, coll. 2013 [CMBS; dredged]).
84. **Cuspivolva bellica* (C. N. Cate, 1973) (Fig. 38D)	ZRC (ZRC.MOL.22571, coll. 1967 [ex LCF]). Although herein a first published record of this species, it may be preferable to treat this as an unconfirmed record. See notes on the Lim Chuan Fong collection (p. 7).
85. *Pellasimnia improcera* (Azuma & C. N. Cate, 1971) (Fig. 38E)	ZRC (ZRC.MOL.19129, coll. 2013 [CMBS; dredged; eroded specimen determined with some uncertainty]).
86. *Phenacovolva* cf. *brevirostris* (Schumacher, 1817) (Fig. 38F)	ZRC.MOL.19127, coll. 2013 [CMBS; dredged]).
87. *Phenacovolva dancei* C. N. Cate, 1973 (Fig. 38G)	ZRC (ZRC.MOL.19128, coll. 2013 [CMBS; dredged]).
Superfamily Hipponicoidea	
Family Hipponicidae	
88. *Cheilea imbricata* (Fischer von Waldheim, 1807) (Fig. 38H)	ZRC (ZRC.MOL.21291, coll. 2013 [CMBS; dredged]).
Superfamily Littorinoidea	
Family Littorinidae	
89. *Echinolittorina malaccana* (Philippi, 1847) (Figs. 10C, 39A, B)	R. D. Purchon & Enoch (1954, as *Tectarius malaccensis*); Chuang (1961, as *Tectarius malaccensis*); Rosewater (1970, as *Nodilittorina pyramidalis pyramidalis* [see Reid, 2007]); R. D. Purchon (1977, as *Tectarius malaccensis* [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981, as *Nodilittorina pyramidalis* [see Reid, 2007]); ZRC (ZRC.MOL.22554, coll. 1959 [ex LCF]; ZRC.MOL.21618, coll. 2013 [CMBS; intertidal]; ZRC.MOL.22207, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.22602).
90. *Echinolittorina melanacme* (E. A. Smith, 1876) (Figs. 39C, D)	Sanpanich & S. K. Tan (2016, as *Echinolittorina feejeensis*); ZRC (ZRC.MOL.22555, coll. 1959 [ex LCF]); 2020 survey (ZRC.MOL.22603; ZRC.MOL.22604). The *Echinolittorina feejeensis* (Reeve, 1857 [in 1857–1858a]) reported in Sanpanich & S. K. Tan (2016) is a misidentification and this name should be removed from the local faunal records as the real *Echinolittorina feejeensis* is restricted to Fiji, Kermadec Islands and doubtfully Samoa (Reid, 2007).
91. *Echinolittorina vidua* (Gould, 1859) (Figs. 39E, F)	Rosewater (1970, as *Nodilittorina millegrana*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22556, coll. 1959 [ex LCF]; ZRC.MOL.16590, coll. 2013 [CMBS; intertidal]). Records of *Nodilittorina millegrana* from Singapore in Rosewater (1970) are presumed to refer only to this species, but may in fact include *Echinolittorina melanacme* (E. A. Smith, 1876). See Reid (2007) for details and discussions on the taxonomic confusion around *Echinolittorina millegrana* (Philippi, 1848a) and related species.
92. *Littoraria articulata* (Philippi, 1846a) (Figs. 39G, H)	Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22209, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.22605).
93. *Littoraria scabra* (Linnaeus, 1758)	Chuang (1961); Way & R. D. Purchon (1981, as *Littorina scabra scabra*).
94. *Littoraria undulata* (J.E. Gray, 1839)	R. D. Purchon & Enoch (1954); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981). Historical records of this species could possibly refer to *Littoraria articulata* (Philippi, 1846a) or another similar species instead (see also Reid, 1986).
Superfamily Naticoidea	
Family Naticidae	
95. *Naticarius hainanensis* (X. X. Liu, 1977) (Fig. 40A)	2020 survey (ZRC.MOL.22612). *Naticarius hainanensis* (X. X. Liu, 1977) is herein regarded to be the earliest available name for this species usually identified as *Naticarius zonalis* (Récluz, 1850) by local authors (e.g., S. K. Tan & Woo, 2010). See also remarks for next species.
96. *Naticarius zonalis* (Récluz, 1850) (Fig. 40B)	ZRC (ZRC.MOL.18459, coll. 2013 [CMBS; dredged]; ZRC.MOL.19116, coll. 2013 [CMBS; dredged]). This is not the *Naticarius zonalis* (Récluz, 1850) of local authors (see preceding species). *Naticarius zonalis* is a synonym of *Naticarius sertatus* (Menke, 1843) according to some authors (e.g., Torigoe & Inaba, 2011; but see Hülsken, 2008). Pending further studies to resolve the taxonomic confusion over the abovementioned species and other related congeneric species including *Naticarius hainanensis* (X. X. Liu, 1977) and *Naticarius colliei* (Récluz, 1844), *Naticarius zonalis* is treated as a valid species and the correct name for this species.
97. *Polinices mammilla* (Linnaeus, 1758) (Fig. 40D)	ZRC (ZRC.MOL.16550, coll. 2013 [CMBS; intertidal]).

List of taxa	Records and remarks
98. *Sinum haliotoideum* (Linnaeus, 1758) (Fig. 40C)	ZRC (ZRC.MOL.22566, coll. 1969 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
99. *Tanea areolata* (Récluz, 1844) (Fig. 40E)	ZRC (ZRC.MOL.19117, coll. 2013 [CMBS; dredged]); 2020 survey (ZRC.MOL.21775).
Superfamily Rissooidea	
Family Rissoinidae	
100. *Moerchiella striata* (Quoy & Gaimard, 1833 [in 1832–1835]) (Fig. 39I)	Sanpanich & S. K. Tan (2016, as *Rissoina striata*); 2020 survey (ZRC.MOL.20916; ZRC.MOL.22937).
101. **Phosinella media* (Schwartz von Mohrenstern, 1860) (Figs. 39J, K)	ZRC (ZRC.MOL.25009, coll. 1969 [ex LCF]); 2020 survey (ZRC.MOL.24079).
102. *Rissoina ambigua* (Gould, 1849) (Figs. 39L, M)	2020 survey (ZRC.MOL.22616).
103. *Rissoina* cf. *obeliscus* Recluz in Schwartz von Mohrenstern, 1860 (Figs. 39N–P)	ZRC (ZRC.MOL.25010, coll. 1969 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
Superfamily Stromboidea	
Family Strombidae	
104. *Canarium urceus* (Linnaeus, 1758) (Fig. 41B)	Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22255, coll. 2013 [CMBS; intertidal]).
105. *Lambis lambis* (Linnaeus, 1758) (Figs. 10D, 41A)	R. D. Purchon & Enoch (1954, also as *Lambis* (*Pterocera*) *lambis*); Abbott (1961); Chuang (1961); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981); ZRC (ZRC.MOL.17187, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20917).
Superfamily Tonnoidea	
Family Cymatiidae	
106. *Gyrineum natator* (Röding, 1798) (Fig. 41C)	2020 survey (ZRC.MOL.20892).
Superfamily Truncatelloidea	
Family Vitrinellidae	
107. **Vitrinella lenticula* (Gould, 1861) (Fig. 42A)	ZRC (ZRC.MOL.19114, coll. 2013 [CMBS; dredged]).
108. **Vitrinella* sp. (Fig. 42B)	ZRC (ZRC.MOL.24082, coll. 2013 [CMBS; dredged]). Although not determined to species, no similar species has been previously recorded from Singapore.
Superfamily Vanikoroidea	
Family Eulimidae	
109. *Melanella* sp. (Fig. 42C)	ZRC (ZRC.MOL.19196, coll. 2013 [CMBS; dredged]). The generic assignment of this yet undetermined species is provisional.
Family Vanikoridae	
110. *Vanikoro cancellata* (Lamarck, 1822a) (Fig. 42D)	ZRC (ZRC.MOL.19191, coll. 2013 [CMBS; dredged]).
111. **Vanikoro fenestrata* (A. Adams, 1863) (Fig. 42E)	ZRC (ZRC.MOL.19192, coll. 2013 [CMBS; dredged]).
112. Undetermined sp. (Fig. 42F)	ZRC (ZRC.MOL.19119, coll. 2013 [CMBS; dredged]). Represented by only a broken shell, this yet undetermined species is provisionally assigned to this family.
Superfamily Velutinoidea	
Family Eratoidae	
113. *Alaerato angistoma* (G. B. Sowerby I in G. B. Sowerby II, 1832 [in 1832–1841]) (Figs. 42L, M)	ZRC (ZRC.MOL.18417, coll. 2013 [CMBS; dredged]; ZRC.MOL.19123, coll. 2013 [CMBS; dredged]).
Family Triviidae	
114. *Cleotrivia globosa* (J.E. Gray in G. B. Sowerby I, 1832 [in 1832–1841]) (Figs. 42G, H)	ZRC (ZRC.MOL.19120, coll. 2013 [CMBS; dredged]).
115. *Trivirostra edgari* (Shaw, 1909) (Fig. 42I)	ZRC (ZRC.MOL.25024, coll. 2013 [CMBS; dredged]).
116. *Trivirostra oryza* (Lamarck, 1810) (Fig. 42K)	Way & R. D. Purchon (1981, as *Trivia oryza*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.18516, coll. 2013 [CMBS; dredged]); 2020 survey (ZRC.MOL.22681).
117. *Trivirostra pellucidula* (Reeve, 1846 [in 1845–1846]) (Fig. 42J)	ZRC (ZRC.MOL.19121, coll. 2013 [CMBS; dredged]).
Family Velutinidae	
118. *Lamellaria* sp.	S. K. Tan et al. (2015). For figures of this species, see S. K. Tan et al. (2015: 194, figs. 4, 5).

List of taxa	Records and remarks
Superfamily Vermetoidea	
Family Vermetidae	
119. *Thylacodes* sp. (Fig. 10E)	2020 survey (not collected). The generic assignment of this species is provisional.
120. *Dendropoma* sp. (Fig. 42N)	2020 survey (ZRC.MOL.25003). The generic assignment of this species is provisional.
Order Neogastropoda	
Superfamily Buccinoidea	
Family Columbellidae	
121. *Euplica scripta* (Lamarck, 1822a) (Figs. 43A–C)	Way & R. D. Purchon (1981, as *Pyrene scripta*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.16588, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20889; ZRC.MOL.22598).
122. *Mitrella moleculina* (Duclos, 1840) (Fig. 43D)	Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.17052, coll. 2013 [CMBS; trawled, 40 m depth]).
123. *Parametaria epamella* (Duclos, 1840)	Way & R. D. Purchon (1981, as *Pyrene philippinarum*).
124. *Pardalinops testudinaria* (Link, 1807) (Figs. 43E, F)	Way & R. D. Purchon (1981, as *Pyrene testudinaria*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.16579, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17171, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20890; ZRC.MOL.22599).
125. *Pictocolumbella ocellata* (Link, 1807) (Fig. 43G)	R. D. Purchon & Enoch (1954, as *Pyrene fulgurans*), Chuang (1961, as *Pyrene fulgurans*); R. D. Purchon (1977: 365, as *Pyrene fulgurans* [after R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981, as *Pyrene ocellata*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22546, coll. 1959 [ex LCF]); 2020 survey (ZRC.MOL.20891; ZRC.MOL.22600).
126. *Pyrene splendidula* (G. B. Sowerby I, 1844) (Fig. 43H)	ZRC (ZRC.MOL.22420, coll. 1969 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
Family Nassariidae	
127. *Nassarius crenoliratus* (A. Adams, 1852 [in 1852–1853])	Sanpanich & S. K. Tan (2016).
128. *Nassarius foveolatus* (Dunker, 1847) (Fig. 43I)	ZRC (ZRC.MOL.22565, coll. 1959 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
129. *Nassarius nodiferus* (Powys in G. B. Sowerby I & Powys, 1835) (Fig. 43J)	Sanpanich & S. K. Tan (2016, as *Nassarius castus*); ZRC (ZRC.MOL.18410, coll. 2013 [CMBS; dredged]). The *Nassarius castus* (Gould, 1850a) reported in Sanpanich & S. K. Tan (2016) is a misidentification. The real *Nassarius castus* is restricted to around the Fiji Islands (see Kool, 2008), hence the species should be removed from the faunal records of Singapore.
130. *Nassarius* cf. *reeveanus* (Dunker, 1847) (Fig. 43K)	2020 survey (ZRC.MOL.24996). Only one specimen of this species was collected. *Nassarius reeveanus* (Dunker, 1847) has not been previously recorded from Singapore and this would be the first record if correctly identified.
131. *Phos senticosus* (Linnaeus, 1758) (Fig. 43L)	ZRC (ZRC.MOL.10413, coll. 1969 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
132. *Reticunassa* cf. *thailandensis* Galindo et al., 2017 (Figs. 43M, N)	2020 survey (ZRC.MOL.22613). The specimens examined are very similar to the *Reticunassa thailandensis* Galindo et al., 2017, from Singapore figured in Chan & Lau (2020), but because of apparent differences in shell profile, sculpture and colouration from the holotype of *Reticunassa thailandensis* (see Galindo et al., 2017), our specimens seem to be a closely related species instead.
Family Pisaniidae	
133. *Engina alveolata* (Kiener, 1836 [in 1835–1838]) (Figs. 44A, B)	ZRC (ZRC.MOL.25028, no coll. date; ZRC.MOL.10397, coll. 1959 [ex LCF]); 2020 survey (ZRC.MOL.24077). Our specimens seem to agree well with *Engina forticostata* (Reeve, 1846b), which may prove to be the correct name for this species. Cernohorsky (1975) regarded *Engina forticostata* to be a junior subjective synonym of *Engina pyrostoma* (G. B. Sowerby I, 1832) described from Panama and the Galapagos. Pending further taxonomic evaluation, we tentatively follow MolluscaBase (MolluscaBase Eds., 2021), which list *Engina forticostata* under the synonymy of *Engina alveolata* (Kiener, 1836) although the basis of synonymy is unclear.
134. *Engina armillata* (Reeve, 1846b) (Figs. 44C, D)	ZRC (ZRC.MOL.25027, coll. 1937; ZRC.MOL.10400, coll. 1969 [ex LCF]; ZRC.MOL.10401, coll. 1969 [ex LCF]; ZRC.MOL.19160, coll. 2013 [CMBS; dredged]); 2020 survey (ZRC.MOL.22615).
135. *Pisania ignea* (Gmelin, 1791) (Fig. 44G)	Way & R. D. Purchon (1981); S. K. Tan & H. H. Tan (2016 [after Way & R. D. Purchon, 1981]); ZRC (ZRC.MOL.10392, coll. 1969 [ex LCF]).
136. *Pollia fumosa* (Dillwyn, 1817b) (Figs. 44E, F)	Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.6920, coll. "1960s"; ZRC.MOL.17079, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17131, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20913; ZRC.MOL.22936).

List of taxa	Records and remarks
Superfamily Conoidea	
Family Clathurellidae	
137. *Etrema* sp. (Fig. 45F)	ZRC (ZRC.MOL.19153, coll. 2013 [CMBS; dredged]).
138. **Lienardia mighelsi* Iredale & Tomlin, 1917 (Figs. 45A–C)	ZRC (ZRC.MOL.19139, coll. 2013 [CMBS; dredged]; ZRC.MOL.25016, coll. 2013 [CMBS; dredged]).
139. *Lienardia* cf. *nigrotincta* (Montrouzier in Souverbie & Montrouzier, 1872) (Figs. 45D, E)	ZRC (ZRC.MOL.19134, coll. 2013 [CMBS; dredged]).
140. *Lienardia* cf. *vultuosa* (Reeve, 1845 [in 1843–1846]) (Figs. 45G, H)	ZRC (ZRC.MOL.19136, coll. 2013 [CMBS; dredged]; ZRC.MOL.19144 [CMBS; dredged]; ZRC.MOL.25018, coll. 2013 [CMBS; dredged]).
141. Undetermined sp. (Figs. 45I, J)	ZRC (ZRC.MOL.19149, coll. 2013 [CMBS; dredged]); 2020 survey (ZRC.MOL.24075).
Family Conidae	
142. *Conus consors* G. B. Sowerby I in G. B. Sowerby II, 1833 [in 1832–1841] (Fig. 44H)	2020 survey (ZRC.MOL.21774). The only specimen examined is an eroded shell, thus identity was determined with some doubt.
143. *Conus textile* Linnaeus, 1758	Chuang (1961: 204); Way & R. D. Purchon (1981).
144. *Conus viola* Cernohorsky, 1977 (Fig. 44I)	ZRC (ZRC.MOL.14514, coll. 1967 [ex LCF]). The same specimen was figured in C. F. Lim & Wee (1992, as *Conus luteus*). See also notes on the Lim Chuan Fong collection (p. 7).
Family Drilliidae	
145. *Clavus* sp. (Figs. 45K, L)	ZRC (ZRC.MOL.19143, coll. 2013 [CMBS; dredged]; ZRC.MOL.24601, coll. 2013 [CMBS; dredged]).
Family Horaiclavidae	
146. **Graciliclava costata* (Hedley, 1922) (Fig. 45M)	ZRC (ZRC.MOL.19137, coll. 2013 [CMBS; dredged]; ZRC.MOL.19142, coll. 2013 [dredged]; ZRC.MOL.19148, coll. 2013 [dredged]).
Family Pseudomelatomidae	
147. *Otitoma* cf. *crassivaricosa* Morassi et al., 2017 (Fig. 45N)	ZRC (ZRC.MOL.22575, coll. 1969 [ex LCF]; ZRC.MOL.19149, coll. 2013 [CMBS; dredged]; ZRC.MOL.19147, coll. 2013 [CMBS; dredged]).
148. *Otitoma* aff. *timorensis* (Schepman, 1913) (Figs. 45O, P)	ZRC (ZRC.MOL.19152, coll. 2013 [CMBS; dredged]; ZRC.MOL.19154, coll. 2013 [CMBS; dredged])
149. *Ptychobela nodulosa* (Gmelin, 1791) (Fig. 45Q)	ZRC (ZRC.MOL.22574, coll. 1969 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
Family Raphitomidae	
150. **Daphnella* sp. (Fig. 46A)	ZRC (ZRC.MOL.19151, coll. 2013 [CMBS; dredged]). The generic assignment of this yet undetermined species is provisional. There are nevertheless no previous records of any similar species from Singapore.
151. **Eucyclotoma* aff. *hindsii* (Reeve, 1843 [in 1843–1846]) (Fig. 46B)	ZRC (ZRC.MOL.19146, coll. 2013 [CMBS; dredged]). A first record of this genus, no other similar species has been previously recorded from Singapore.
152. **Kermia cylindrica* (Pease, 1860) (Figs. 46C–E)	ZRC (ZRC.MOL.19138, coll. 2013 [CMBS; dredged]; ZRC.MOL.19150, coll. 2013 [CMBS; dredged]; ZRC.MOL.25021, coll. 2013 [CMBS; dredged]).
153. **Pseudodaphnella barnardi* (Brazier, 1876) (Fig. 46F)	2020 survey (ZRC.MOL.24078).
154. **Pseudodaphnella fallax* Fedosov & Puillandre, 2012 (Figs. 46G, H)	ZRC (ZRC.MOL.19135, coll. 2013 [CMBS; dredged]).
155. *Pseudodaphnella* cf. *fallax* Fedosov & Puillandre, 2012 (Fig. 46I)	ZRC (ZRC.MOL.19156, coll. 2013 [CMBS; dredged]).
156. **Pseudodaphnella hadfieldi* (Melvill & Standen, 1895) (Figs. 46J–L)	ZRC (ZRC.MOL.25022, coll. 2013 [CMBS; dredged]).
157. *Pseudodaphnella* cf. *oligoina* Hedley, 1922 (Fig. 46M)	ZRC (ZRC.MOL.25023, coll. 2013 [CMBS; dredged]).
Family Terebridae	
158. *Duplicaria* sp. (Fig. 46N)	2020 survey (ZRC.MOL.24080).
Superfamily Mitroidea	
Family Mitridae	
159. *Pseudonebularia fraga* (Quoy & Gaimard, 1833 [in 1832–1835]) (Fig. 47C)	Way & R. D. Purchon (1981, as *Mitra fraga*); ZRC (ZRC.MOL.22393, coll. 1968 [ex LCF]); 2020 survey (ZRC.MOL.22607).
160. *Pseudonebularia proscissa* (Reeve, 1844 [in 1844–1845]) (Fig. 47B)	2020 survey (ZRC.MOL.22608).
161. **Strigatella aurantia* (Gmelin, 1791) (Fig. 47A)	ZRC (ZRC.MOL.22557, no date [ex LCF]). Although herein a first published record of this species from Singapore, it may be preferable to treat this as an unconfirmed record. See notes on the Lim Chuan Fong collection (p. 7).

List of taxa	Records and remarks
Superfamily Muricoidea	
Family Muricidae	
162. **Aspella platylaevis* Radwin & D'Attilio, 1976 (Fig. 47D)	2020 survey (ZRC.MOL.22609). Although a first record for Singapore herein, the *Aspella anceps* (Lamarck, 1822b) in S. K. Tan & Woo (2010, and references therein cited) is possibly identical because the real *Aspella anceps* is a Mediterranean species (see Houart & Vokes, 1995).
163. *Chicoreus brunneus* (Link, 1807) (Fig. 47E)	Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.17157, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20896).
164. *Chicoreus torrefactus* (G. B. Sowerby II, 1841 [in 1832–1841]) (Fig. 47F)	Way & R. D. Purchon (1981); ZRC (ZRC.MOL.16554, coll. 2013 [CMBS; intertidal]; ZRC.MOL.16561, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17156, coll. 2013 [CMBS; intertidal]).
165. †*Drupa albolabris* (Blainville, 1832) (Fig. 49F)	ZRC (ZRC.MOL.22558, coll. 1969 [ex LCF]). A previously unrecorded species, we consider the examined lot to be very likely mislabelled. The material appears indistinguishable from examples in old lots collected in the 1930s from Christmas Island that the late Lim Chuan Fong would have had access to. See notes on the Lim Chuan Fong collection (p. 7).
166. †*Drupa morum* Röding, 1798 (Fig. 49H)	ZRC (ZRC.MOL.22561, coll. 1969 [ex LCF]). A previously unrecorded species, we consider the examined lot to be very likely mislabelled. The material appears indistinguishable from examples in old lots collected in the 1930s from Christmas Island that the late Lim Chuan Fong would have had access to. See notes on the Lim Chuan Fong collection (p. 7).
167. †*Drupa ricinus* (Linnaeus, 1758) (Fig. 49G)	ZRC (ZRC.MOL.22562, coll. 1969 [ex LCF]). A previously unrecorded species, we consider the examined lot to be very likely mislabelled. The material appears indistinguishable from examples in old lots collected in the 1930s from Christmas Island that the late Lim Chuan Fong would have had access to. See notes on the Lim Chuan Fong collection (p. 7).
168. *Drupella margariticola* (Broderip in Broderip & G. B. Sowerby I, 1833) (Fig. 48A)	Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22559, coll. 1967; ZRC.MOL.22560, coll. 1967; ZRC.MOL.16558, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17145, coll. 2013 [CMBS; intertidal]; ZRC.MOL.17268, coll. 2013 [CMBS; intertidal]; ZRC.MOL.18370, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20897).
169. *Drupella rugosa* (Born, 1778) (Fig. 48B)	2020 survey (ZRC.MOL.20898).
170. *Ergalatax contracta* (Reeve, 1846 [in 1846–1847]) (Figs. 48C, D)	ZRC (ZRC.MOL.18526, coll. 2013 [CMBS; dredged]; ZRC.MOL.19228, coll. 2013 [CMBS; dredged]).
171. *Favartia* sp. (Fig. 48E)	ZRC (ZRC.MOL.19233, coll. 2013 [CMBS; dredged]).
172. *Indothais javanica* (Philippi, 1848b) (Fig. 48F)	ZRC (ZRC.MOL.19227, coll. 2013 [CMBS; dredged]).
173. *Lataxiena fimbriata* (Hinds, 1844 [in 1844–1845]) (Fig. 48G)	ZRC (ZRC.MOL.19879, coll. 2013 [CMBS; dredged]).
174. *Mancinella echinata* (Blainville, 1832) (Fig. 47I)	Chuang (1961, as *Thais echinata*), Way & R. D. Purchon (1981, as *Thais echinata*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.22564, coll. 1959 [ex LCF]; ZRC.MOL.16560, coll. 2013 [CMBS; intertidal]; ZRC.MOL.22234, coll. 2013 [CMBS]); 2020 survey (ZRC.MOL.20899; ZRC.MOL.22928).
175. *Morula spinosa* (H. Adams & A. Adams, 1853 [in 1853–1858]) (Fig. 49D)	Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.25037, coll. 2013 [CMBS; dredged]); 2020 survey (ZRC.MOL.22314).
176. †*Morula uva* (Röding, 1798) (Fig. 49E)	ZRC (ZRC.MOL.22563, coll. 1970 [ex LCF]). A previously unrecorded species, we consider the examined lot to be very likely mislabelled. The material appears indistinguishable from examples in old lots collected in the 1930s from Christmas Island that the late Lim Chuan Fong would have had access to. See notes on the Lim Chuan Fong collection (p. 7).
177. *Murex trapa* Röding, 1798 (Fig. 49A)	ZRC (ZRC.MOL.21036, coll. 1998).
178. *Murichorda fiscellum* (Gmelin, 1791) (Fig. 48H)	ZRC (ZRC.MOL.16673, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20900).
179. *Murichorda rumphiusi* (Houart, 1996) (Fig.48I)	2020 survey (ZRC.MOL.20901; ZRC.MOL.22610).
180. *Orania serotina* (A. Adams, 1853 [in H. Adams & A. Adams, 1853–1858]) (Figs. 48M, N)	ZRC (ZRC.MOL.19231, coll. 2013 [CMBS; dredged]; ZRC.MOL.19234, coll. 2013 [CMBS; dredged]; ZRC.MOL.19881, coll. 2013 [CMBS; dredged]).
181. *Orania* cf. *pachyraphe* (E. A. Smith, 1879) (Fig. 48O)	ZRC (ZRC.MOL.19880, coll. 2013 [CMBS; dredged]).
182. *Reishia bitubercularis* (Lamarck, 1822a) (Fig. 47G)	R. D. Purchon & Enoch (1954, as *Thais echinulata*); 2020 survey (ZRC.MOL.20902; ZRC.MOL.22929). It should be noted that there is hitherto no verifiable record of the real *Thais echinulata*, now *Mancinella echinulata* (Lamarck, 1822), in Singapore, and most verifiable historical records refer to *Reishia bitubercularis*. That species should probably be removed from the local faunal records.

List of taxa	Records and remarks
183. *Reishia clavigera* (Küster, 1860 [in 1843–1860]) (Fig. 47H)	2020 survey (ZRC.MOL.20903).
184. *Semiricinula muricoides* (Blainville, 1832) (Fig. 48J)	ZRC (ZRC.MOL.22224, coll. 2013 [CMBS; intertidal]).
185. *Tenguella musiva* (Kiener, 1835 [in 1835–1838]) (Figs. 48K, L)	R. D. Purchon & Enoch (1954, as *Drupa musiva*); R. D. Purchon (1977, as *Drupa musiva* [after R. D. Purchon & Enoch, 1954]); Chuang (1961, as *Morula* (*Drupa*) *musiva*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.17149, coll. 2013 [CMBS; intertidal]; ZRC.MOL.22203, coll. 2013 [CMBS; intertidal]); 2020 survey (ZRC.MOL.20904; ZRC.MOL.22611).
186. **Tylothais virgata* (Dillwyn, 1817b) (Figs. 49B, C)	2020 survey (ZRC.MOL.20905).
Superfamily Turbinelloidea	
Family Costellariidae	
187. **Thala exilis* (Reeve, 1845 [in 1844–1845]) (Fig. 50B)	ZRC (ZRC.MOL.22549, coll. 1969 [ex LCF]). This is the first published record of this species in Singapore, but considering the possibility of the examined lot being mislabelled, it may be preferable to treat this an unconfirmed record requiring verification. See notes on the Lim Chuan Fong collection (p. 7).
188. *Thala* cf. *exilis* (Reeve, 1845 [in 1844–1845]) (Fig. 50C)	ZRC (ZRC.MOL.22549, coll. 1969 [ex LCF]). Considering the possibility of the examined lot being mislabelled, it may be preferable to treat this an unconfirmed record requiring verification. See notes on the Lim Chuan Fong collection (p. 7).
189. **Vexillum mutabile* (Reeve, 1845 [in 1844–1845]) (Fig. 50A)	ZRC (ZRC.MOL.19230, coll. 2013 [CMBS; dredged]; ZRC.MOL.14529, coll. 2014).
Family Turbinellidae	
190. **Vasum turbinellus* (Linnaeus, 1758) (Fig. 49I)	ZRC (ZRC.MOL.14653, coll. 1998). This previously unreported species is apparently rare in Singapore and is only represented by a single specimen, which was located among unidentified muricid material in the ZRC prior to its determination.
Subclass Heterobranchia	
Infraclass unassigned ["Lower Heterobranchia"]	
Superfamily Architectonicoidea	
Family Architectonicidae	
191. **Heliacus cerdaleus* (Melvill & Standen, 1903a) (Fig. 50D)	ZRC (ZRC.MOL.18443, coll. 2013 [CMBS; dredged]); 2020 survey (ZRC.MOL.24073).
Infraclass Euthyneura	
Order Nudibranchia	
Suborder Doridina	
Superfamily Chromodoridoidea	
Family Cadlinellidae	
192. *Cadlinella ornatissima* (Risbec, 1928)	C. F. Lim & Chou (1970a).
Family Chromodorididae	
193. *Ceratosoma tenue* Abraham, 1876	ZRC (ZRC.MOL.17385, coll. 2013 [CMBS; dredged]).
194. *Chromodoris lineolata* (van Hasselt, 1824)	C. F. Lim & Chou (1970a, as *Chromodoris lineolata* var. a).
195. *Chromodoris lochi* Rudman, 1982	C. F. Lim & Chou, 1970a, as *Glossodoris quadricolor* [see Rudman, 1982]).
196. *Glossodoris rufomarginata* (Bergh, 1890 [in 1870–1892])	C. F. Lim & Chou (1970a, as *Casella rubra*). Here redetermined to be *Glossodoris rufomarginata* based on the descriptions and illustrations in C.F. Lim & Chou (1970a). See also Rudman (1986) for a note on *Casella rubra* Bergh, 1905).
197. *Goniobranchus fidelis* (Kelaart, 1858b)	C. F. Lim & Chou (1970a, as *Glossodoris fidelis*).
198. *Hypselodoris bullockii* (Collingwood, 1881)	C. F. Lim & Chou (1970a, as *Glossodoris sibogae* [see also Sachidhanandam et al., 2000]).
199. *Hypselodoris placida* (Baba, 1949)	C. F. Lim & Chou (1970a, as *Glossodoris placida*).
200. *Mexichromis trilineata* (A. Adams & Reeve, 1850 [in 1848–1850])	C. F. Lim & Chou (1970a, as *Glossodoris virgata*).
Superfamily Doridoidea	
Family Discodorididae	
201. *Jorunna funebris* (Kelaart, 1858b) (Fig. 10F)	C. F. Lim & Chou (1970a, as *Discodoris* sp. [see also Sachidhanandam et al., 2000]); 2020 survey (not collected).
202. *Platydoris scabra* (Cuvier, 1804)	2020 survey (ZRC.MOL.22324).

List of taxa	Records and remarks
203. *Rostanga bifurcata* Rudman & Avern, 1989	C. F. Lim & Chou (1970a, as *Rostanga arbutus* [see Rudman & Avern, 1989]).
204. *Sebadoris fragilis* (Alder & Hancock, 1864)	C. F. Lim & Chou (1970a, as *Discodoris concinna*). We regard previous Singapore records of *Discodoris concinna* (Alder & Hancock, 1864) to be this species (see also Dayrat, 2010).
205. *Tayuva lilacina* (Gould, 1852)	C. F. Lim & Chou (1970a, as *Discodoris palma*). Further research is needed to verify the occurrence of this species in Singapore. There is possibility of confusion with the similar-looking *Sebadoris fragilis* (Alder & Hancock, 1864).
Superfamily Phyllidioidea	
Family Dendrodoridae	
206. *Dendrodoris elongata* Baba, 1936	C. F. Lim & Chou (1970a, as *Dendrodoris albobrunnea* [see also Sachidhanandam et al., 2000]).
207. *Dendrodoris fumata* (Rüppell & Leuckart, 1830 [in 1828–1830])	C. F. Lim & Chou (1970a, as *Dendrodoris erubescens*).
Family Phyllidiidae	
208. *Phyllidia elegans* Bergh, 1869	C. F. Lim & Chou (1970b).
209. *Phyllidia ocellata* Cuvier, 1804	C. F. Lim & Chou (1970b, as *Phyllidia japonica*).
210. *Phyllidia varicosa* Lamarck, 1801	C. F. Lim & Chou (1970b, as *Phyllidia varicosa*, and *Phyllidia honloni*).
211. *Phyllidiella nigra* (van Hasselt, 1824)	C. F. Lim & Chou (1970b, as *Phyllidia sereni* [sic]); 2020 survey (ZRC.MOL.22932).
212. *Phyllidiopsis loricata* (Bergh, 1873)	ZRC (ZRC.MOL.14676, coll. 2018).
213. *Phyllidiopsis pipeki* Brunckhorst, 1993	C. F. Lim & Chou (1970b, as *Phyllidia nobilis* [see also Brunckhort, 1993]).
Superfamily Polyceroidea	
Family Polyceridae	
214. *Gymnodoris alba* (Bergh, 1877 [in 1870–1892])	C. F. Lim & Chou (1970b).
215. *Gymnodoris ceylonica* (Kelaart, 1858a)	C. F. Lim & Chou (1970b).
216. *Gymnodoris citrina* (Bergh, 1877 [in 1870–1892]) (Fig. 11A)	C. F. Lim & Chou (1970b); 2020 survey (not collected).
217. *Nembrotha livingstonei* Allan, 1933	ZRC (ZRC.MOL.17380, coll. 2014 [CMBS; SCUBA dive]).
Suborder Cladobranchia	
Superfamily Aeolidioidea	
Family Facelinidae	
218. *Pteraeolidia semperi* (Bergh, 1870 [in 1870–1892])	C. F. Lim & Chou (1970b).
219. *Noumeaella* sp.	C. F. Lim & Chou (1970b, as "*Cratena* sp.?"). The species recorded in C. F. Lim & Chou (1970b) is herein tentatively treated as a species of *Noumeaella*, based on the similarities of the oral tentacles, rhinophores, and cerata with members of that genus (C. H. Toh, pers. comm., May 2021).
220. Undetermined sp.	C. F. Lim & Chou (1970b, as "? *Glaucus* sp."). The illustration in C. F. Lim & Chou (1970b) is clearly not a glaucid as currently understood and more likely a facelinid (C. H. Toh, pers. comm., May 2021). This record is therefore provisionally treated as a yet undetermined facelinid.
Superfamily Dendronotoidea	
Family Bornellidae	
221. *Bornella stellifer* (A. Adams & Reeve, 1848 [in 1848–1850])	C. F. Lim & Chou (1970b, as *Bornella digitata*).
Family Dotidae	
222. *Doto greenamyeri* Shipman & Gosliner, 2015	ZRC (ZRC.MOL.17386, coll. 2013 [CMBS; dredged]).
Superfamily Fionoidea	
Family Cuthonidae	
223. *Cuthona* sp.	ZRC (ZRC.MOL.17418, coll. 2014 [CMBS; SCUBA dive]).
Family Trinchesiidae	
224. *Phestilla melanobrachia* Bergh, 1874	Harris (1968); Harris (1973); C. F. Lim & Chou (1970b [after Harris, 1968).
225. Undetermined sp.	C. F. Lim & Chou (1970b, as "? *Subcuthona* sp"). The illustration in C. F. Lim & Chou (1970b) is more akin to a *Trinchesia*, but the authors did not provide enough details to allow confirmation (C. H. Toh, pers. comm., May 2021). Pending further study, this record is provisionally treated as an undetermined member of this family.
Subterclass Tectipleura	
Superfamily Cavolinioidea	
Family Cavoliniidae	
226. *Diacavolinia* cf. *longirostris* (Blainville, 1821) (Fig. 50E)	ZRC (ZRC.MOL.19122, coll. 2013 [CMBS; dredged]).

List of taxa	Records and remarks
Superorder Sacoglossa	
Superfamily Plakobranchoidea	
Family Hermaeidae	
227. *Polybranchia* sp.	C. F. Lim & Chou (1970, as *Lobifera* sp.).
Superorder Siphonarimorpha	
Order Siphonariida	
Superfamily Siphonarioidea	
Family Siphonariidae	
228. *Siphonaria atra* Quoy & Gaimard, 1833 [in 1832–1835] (Figs. 11B, 50F–H)	R. D. Purchon & Enoch (1954); Chuang (1961: 205); R. D. Purchon (1977 [after R. D. Purchon & Enoch, 1954]); R. D. Purchon & D. E. A. Purchon (1981 [species not named; based on inference in text to R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.14102, coll. 1998; ZRC.MOL.25011, coll. 1959 [ex LCF]); 2020 survey (ZRC.MOL.24986; ZRC.MOL.25001).
229. *Siphonaria laciniosa* (Linnaeus, 1758) (Figs. 50I–K)	R. D. Purchon & Enoch (1954, as *Siphonaria exigua*); Chuang (1961, as *Siphonaria exigua*); R. D. Purchon (1977, as *Siphonaria exigua* [after R. D. Purchon & Enoch, 1954]); R. D. Purchon & D. E. A. Purchon (1981 [species not named; based on in-text inference to R. D. Purchon & Enoch, 1954]); Way & R. D. Purchon (1981, as *Siphonaria laciniosa* var. *exigua*); Sanpanich & S. K. Tan (2016); ZRC (ZRC.MOL.25013, coll. 1959 [ex LCF]; ZRC.MOL.14073–14074, coll. 1995); 2020 survey (ZRC.MOL.24987; ZRC.MOL.25002).
230. *Siphonaria* cf. *normalis* Gould, 1846b (Fig. 50L)	ZRC (ZRC.MOL.25014, coll. 1959 [ex LCF]). See also notes on the Lim Chuan Fong collection (p. 7).
Subterclass Tectipleura	
Superorder Pylopulmonata	
Superfamily Pyramidelloidea	
Family Pyramidellidae	
231. Undetermined sp. (Fig. 11C)	2020 survey (not collected). This species was only noticed in photographs after the 2020 survey, but the images were not of sufficient clarity to allow determination to possible species or genera. This is possibly the first report of parasitic pyramidellids on a *Peronia verruculata* (Cuvier, 1830) host.
Order Systellommatophora	
Superorder Eupulmonata	
Superfamily Onchidioidea	
Family Onchidiidae	
232. *Peronia verruculata* (Cuvier, 1830) (Fig. 11C)	R. D. Purchon & Enoch (1954, as "*Oncidium* (?) sp."); Chang et al. (2018, as unidentified sp. of *Peronia verruculata* cryptic species complex [but see Dayrat et al., 2020]); 2020 survey (ZRC.MOL.20910; ZRC.MOL.20911). The undetermined species mentioned in R. D. Purchon & Enoch (1954) is presumed to be conspecific.

Table 4. Cephalopoda from Pulau Satumu.

List of taxa	Records and remarks
Subclass Coleoidea	
Superorder Decapodiformes	
Order Myopsida	
Family Loliginidae	
1. *Sepioteuthis lessoniana* d'Orbigny, 1826	ZRC (ZRC.MOL.15791, coll. 2019).
Superorder Octopodiformes	
Order Octopoda	
Superfamily Octopodoidea	
Family Octopodidae	
2. *Abdopus* sp.	Young (1962, as *Octopus horridus*); R. D. Purchon (1977, as *Octopus horridus* [after Young, 1962]). The real *Abdopus horridus* (d'Orbigny, 1826) is restricted to the Red Sea and northwest Indian Ocean (Norman & Finn, 2001), and the species recorded from Singapore as *Octopus horridus* remains yet undetermined.

ILLUSTRATIONS OF THE MOLLUSCS

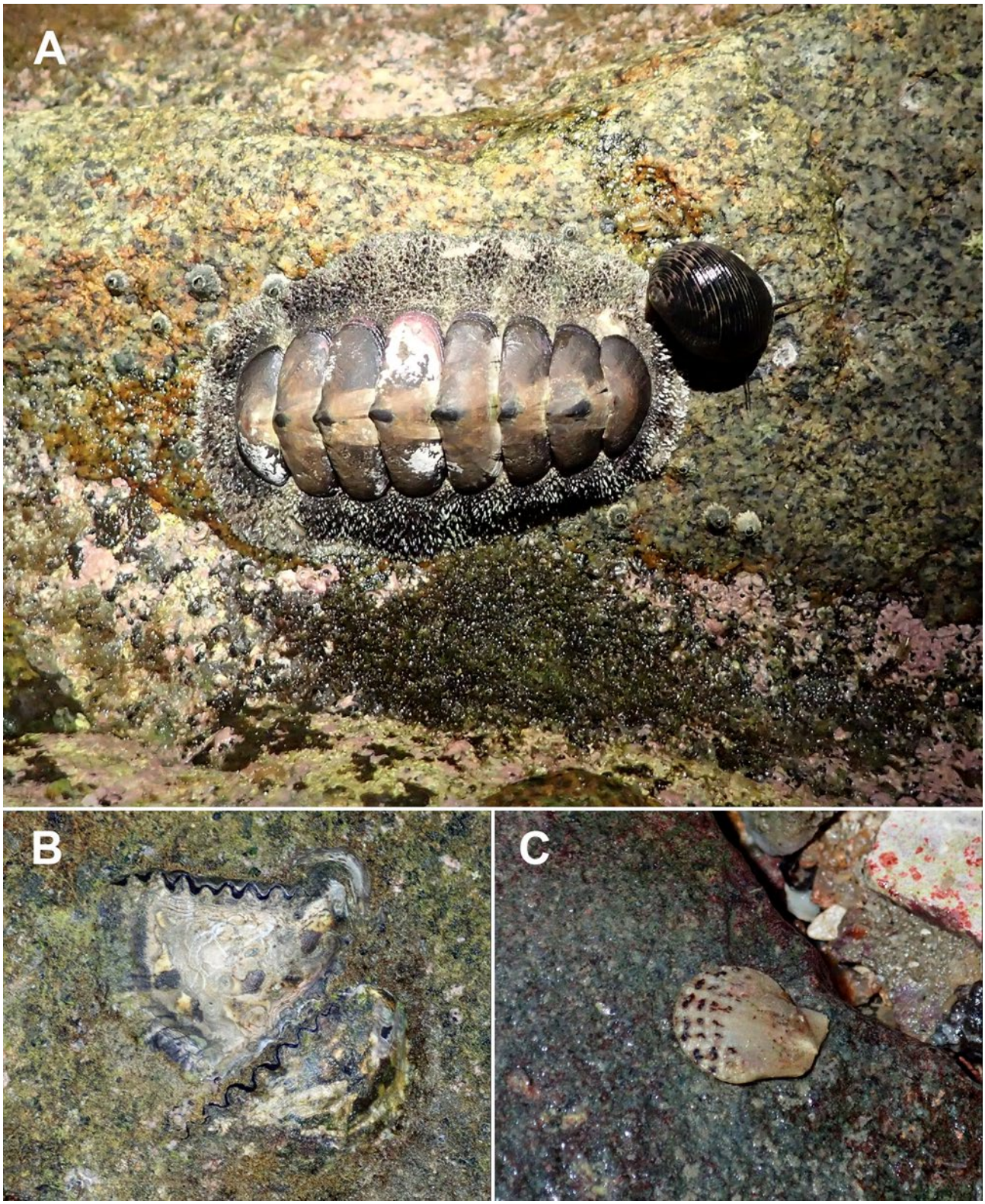

Fig. 7. Molluscs in situ encountered during a survey of Pulau Satumu in 2020. A, *Acanthopleura gemmata* (Blainville, 1825) (BL ca. 70 mm) at the seawall, with a *Nerita undata* Linnaeus, 1758 (SL ca. 20 mm) crawling by; B, *Saccostrea scyphophilla* (Péron & Lesueur in Péron, 1807) cemented on seawall (SL ca. 60–70 mm); C, *Coralichlamys madreporarum* (G. B. Sowerby II, 1842) (SL ca. 15 mm), byssally attached in crevice between two rocks, shown here exposed after the rock on top was removed. (Photographs by: Iffah Iesa [A]; S. K. Tan [B, C])

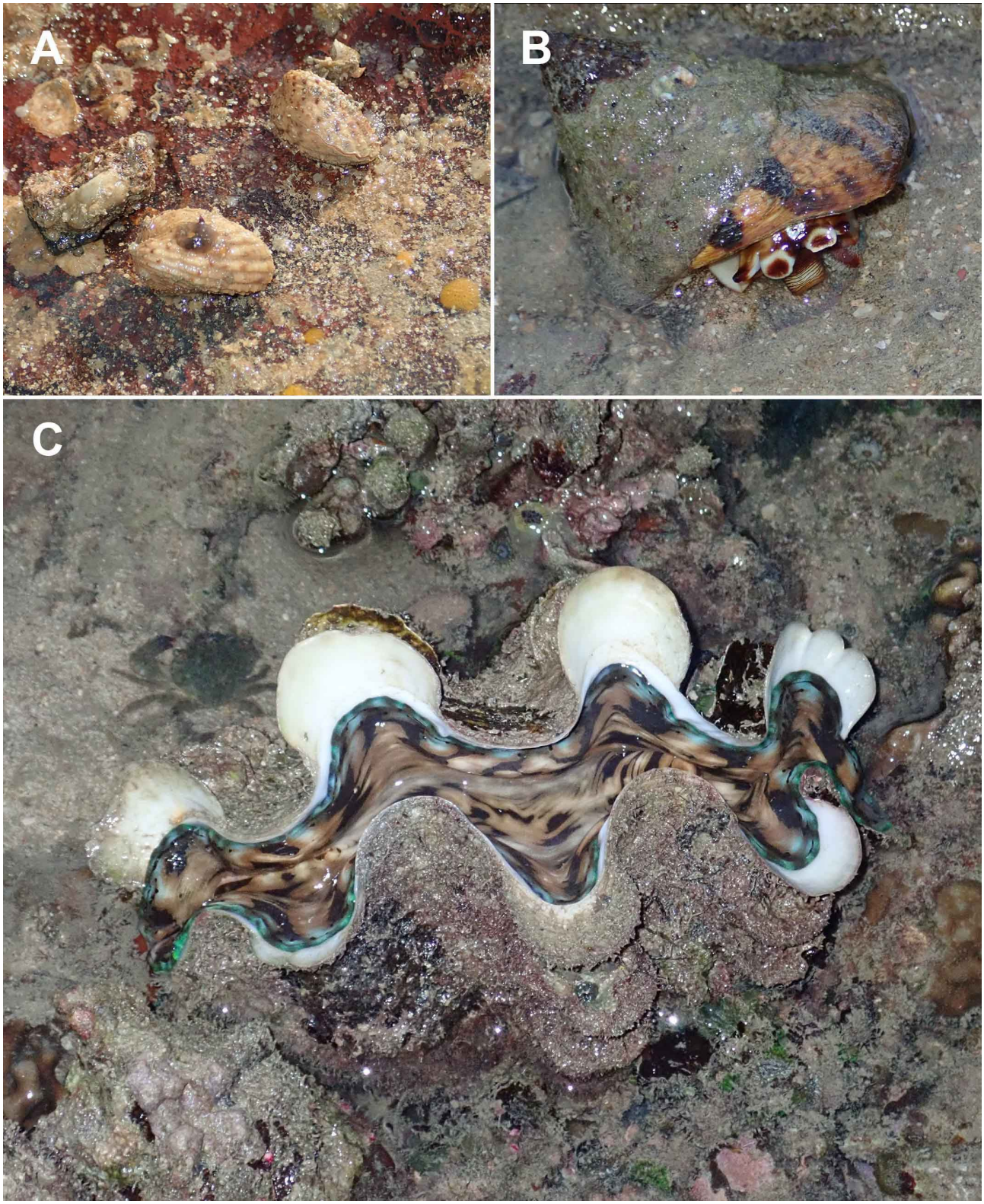

Fig. 8. Molluscs in situ encountered during a survey of Pulau Satumu in 2020. A, *Cardita variegata* Bruguière, 1792 (SL ca. 15 mm) byssally attached on the underside of a rock; B, *Rochia maxima* (Koch in Philippi, 1844) (SL ca. 80 mm) in a tide pool; C, *Tridacna squamosa* Lamarck, 1819 (SL ca. 250 mm) nestled among rubble in the lagoon exposed by the receding tide. (Photographs by: S. K. Tan)

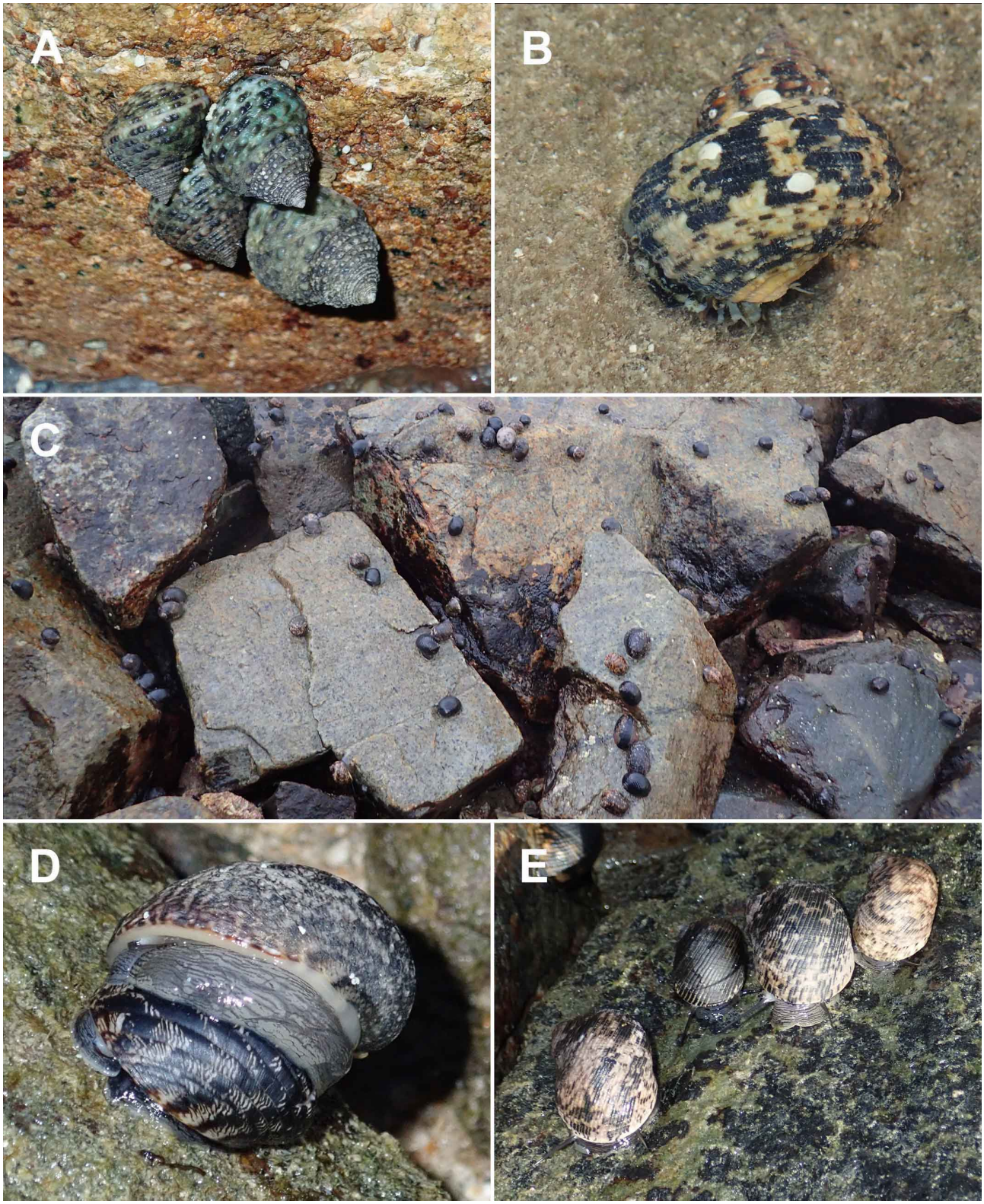

Fig. 9. Molluscs in situ encountered during a survey of Pulau Satumu in 2020. A, *Monodonta labio* (Linnaeus, 1758) (SL ca. 18–22 mm) huddled on seawall; B, *Turbo bruneus* (Röding, 1798) (SL ca. 30 mm) crawling in a tide pool; C, *Nerita* spp. ubiquitous on the rocks and seawalls around the mid-intertidal zone; D, mating pair of *Nerita albicilla* Linnaeus, 1758 (SL ca. 20–25 mm); E, *Nerita undata* Linnaeus, 1758 (SL ca. 18–25 mm) grazing on rock surface. (Photographs by: S. K. Tan [A, B, D, E]; Iffah Iesa [C])

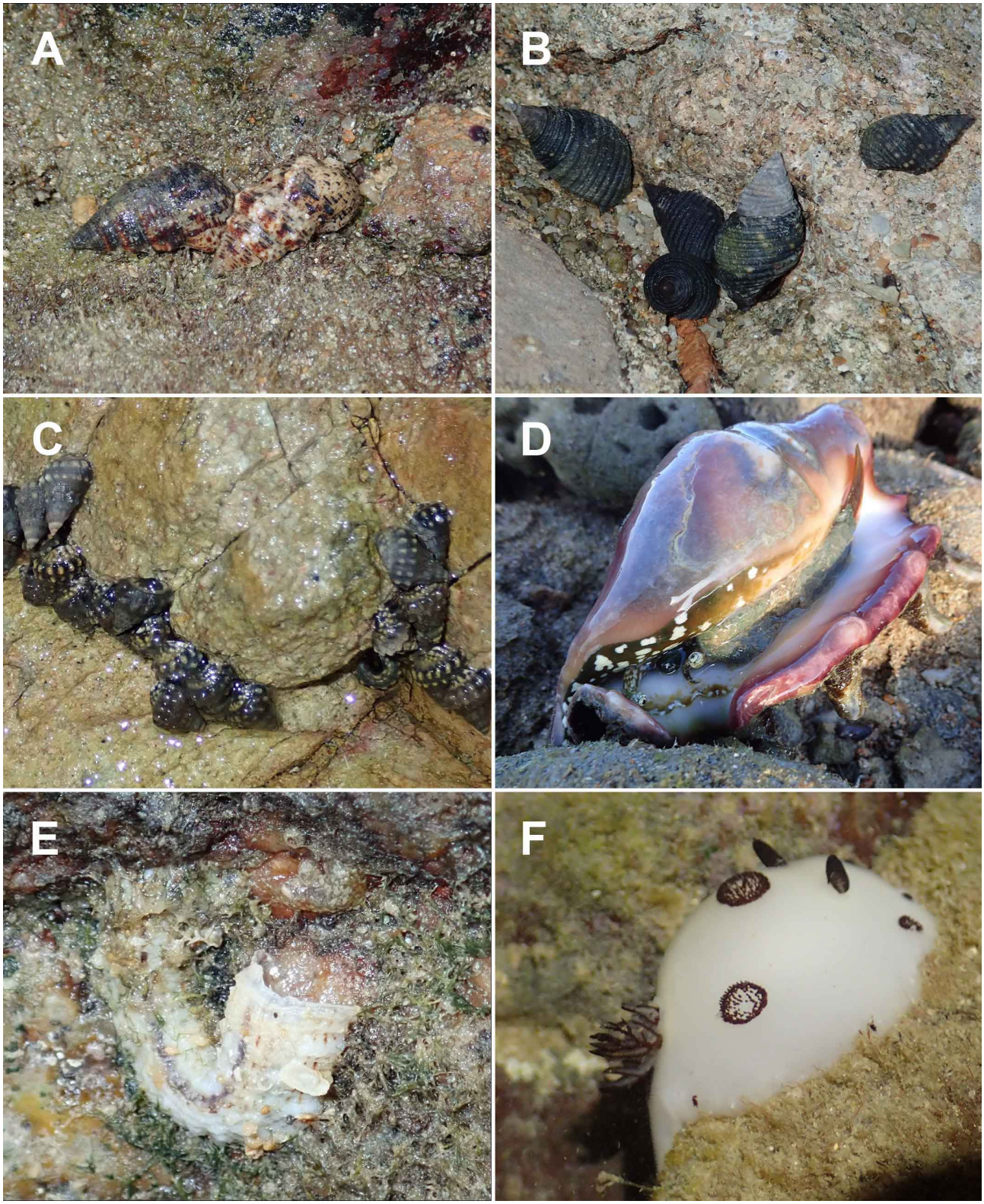

Fig. 10. Molluscs in situ encountered during a survey of Pulau Satumu in 2020. A, *Clypeomorus petrosa* (W. Wood, 1828) (SL ca. 30 mm) on algae covered sandy sediment near the base of large rock; B, *Planaxis sulcatus* (Born, 1778) (SL ca. 15–25 mm); C, *Echinolittorina malaccana* (Jonas & Philippi in Philippi, 1847) (SL ca. 5 mm) clustered in wet crevices at seawall; D, *Lambis lambis* (Linnaeus, 1758) (SL ca. 120 mm) encountered among cobbles and rocks, and turned over to show the soft parts of the animal; E, *Thylacodes* sp. (SL ca. 25 mm) attached on the vertical face of a large boulder; F, *Jorunna funebris* (Kelaart, 1858) (BL ca. 20 mm) among coral rubble at the reef flat. (Photographs by: S. K. Tan [A–C, E]; Iffah Iesa [D, F])

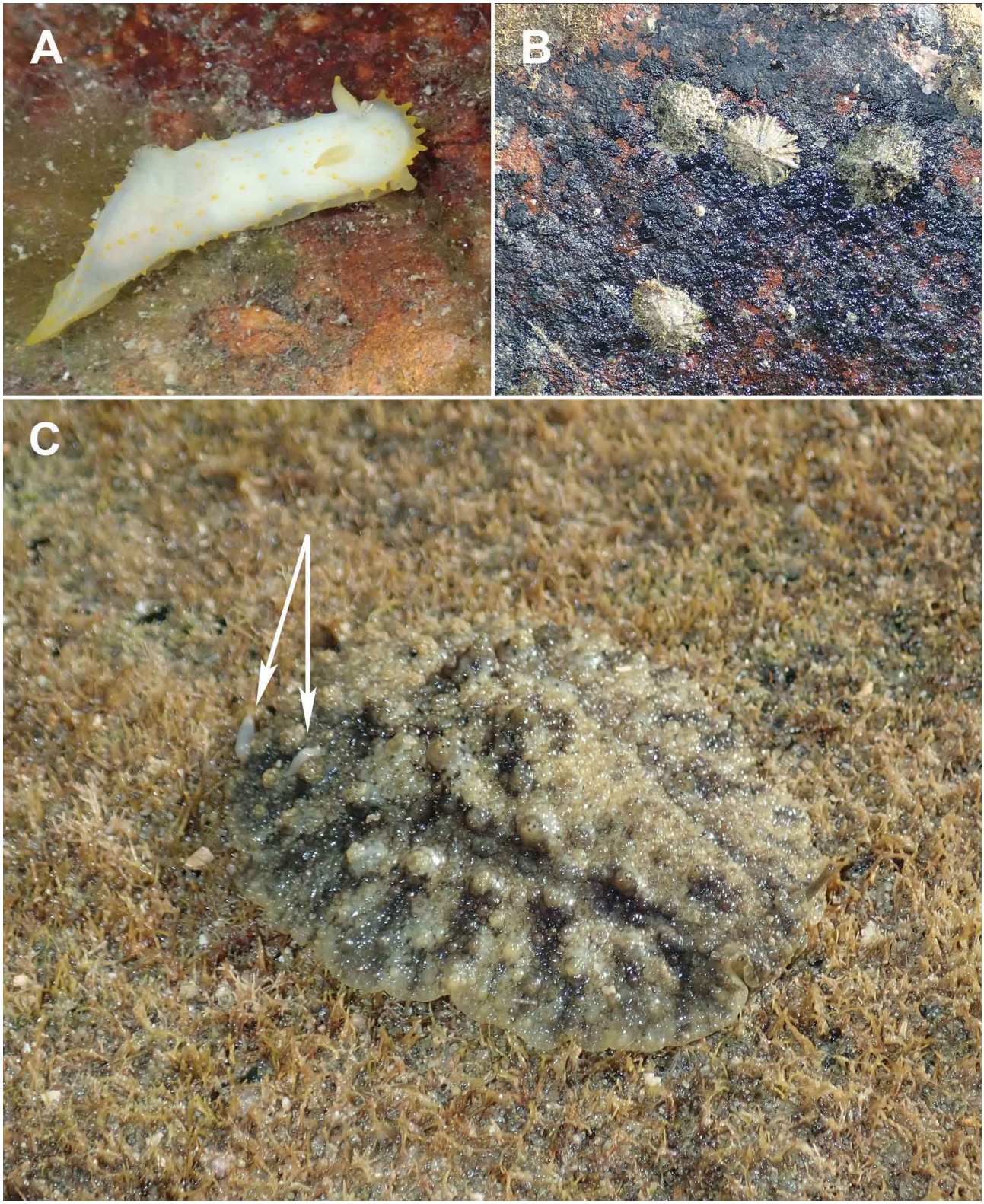

Fig. 11. Molluscs in situ encountered during a survey of Pulau Satumu in 2020. A, *Gymnodoris citrina* (Bergh, 1877) (BL ca. 18 mm) crawling over a rock in a shallow pool; B, *Siphonaria atra* Quoy & Gaimard, 1833 (SL ca. 20–25 mm) on seawall; C, *Peronia verruculata* (Cuvier, 1830) (BL ca. 45 mm) on sloping face of the seawall, with two undetermined parasitic pyramidellid snails (arrows). (Photographs by: S. K. Tan)

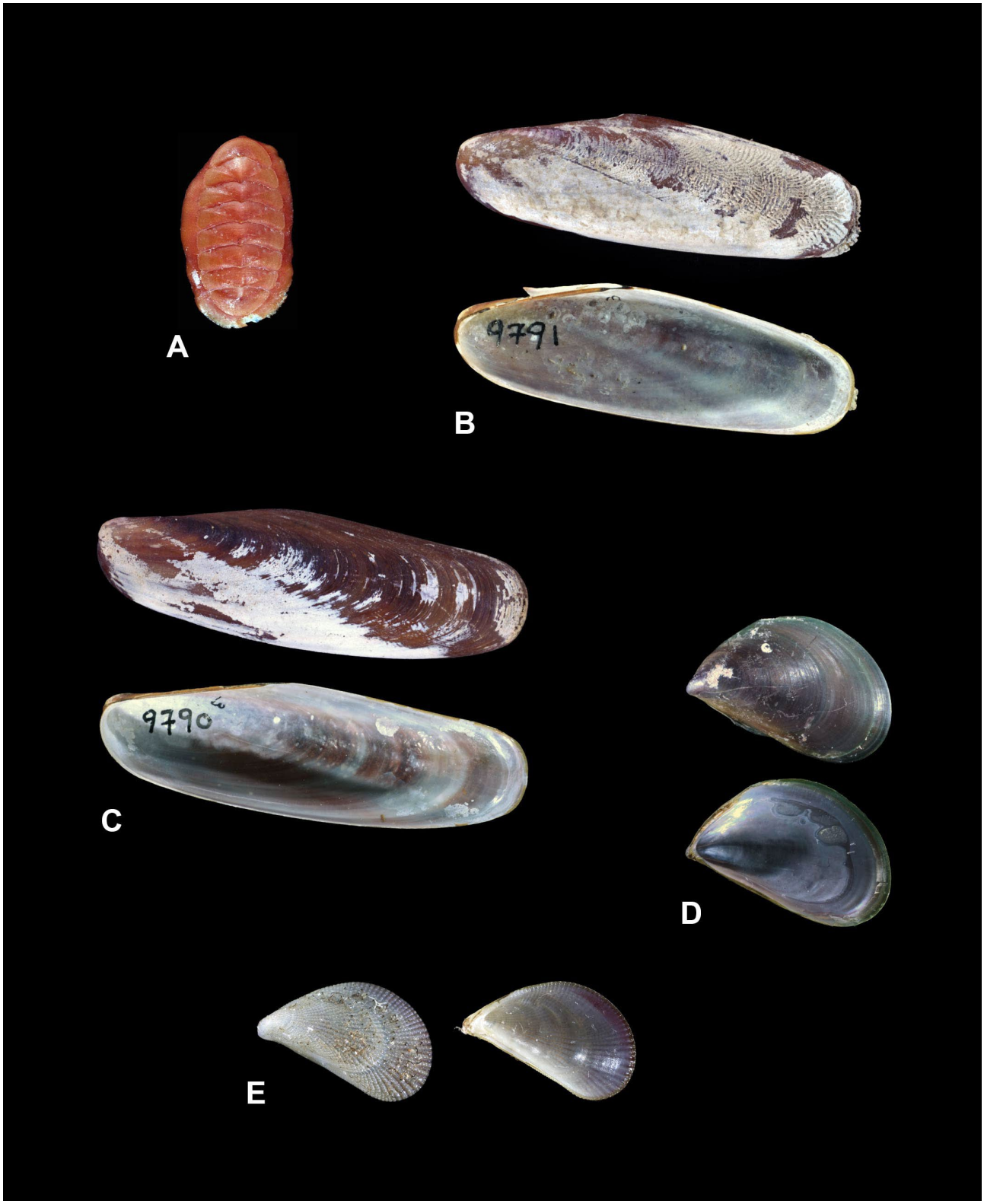

Fig. 12. Callochitonidae (A) and Mytilidae (B–E) from Pulau Satumu. A, *Callochiton schilfi* Schwabe & Ruthensteiner, 2001, BL 8.9 mm (ZRC.MOL.18523); B, *Leiosolenus lima* (Jousseaume in Lamy, 1919), SL 62.0 mm (ZRC.MOL.9791); C, *Leiosolenus nasutus* (Philippi, 1846), SL 65.0 mm (ZRC.MOL.9790); D, *Perna viridis* (Linnaeus, 1758), SL 12.4 mm (ZRC.MOL.22589); E, *Septifer excisus* (Wiegmann, 1837), SL 10.8 mm (ZRC.MOL.22590).

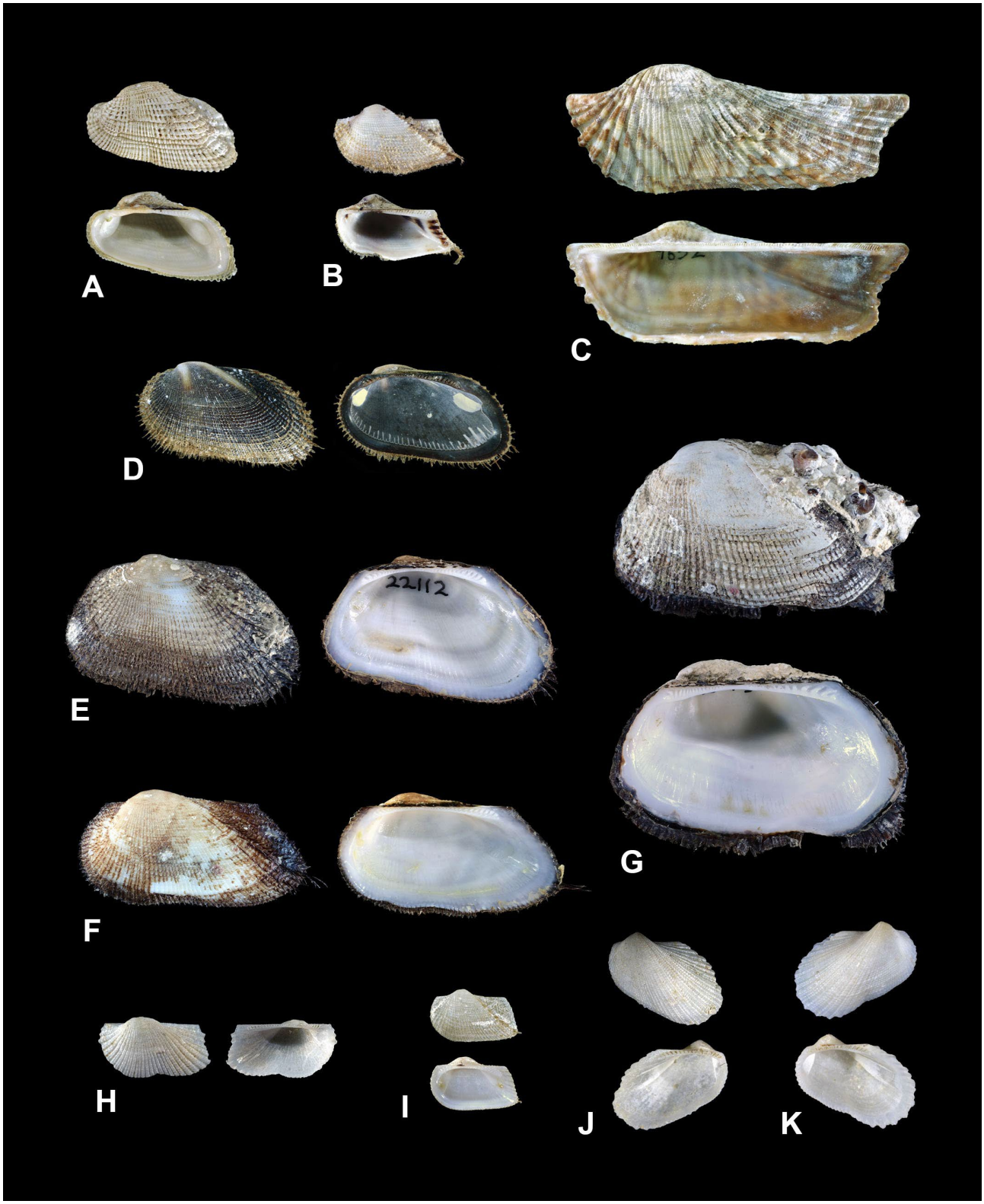

Fig. 13. Arcidae (A–H) and Noetiidae (I–K) from Pulau Satumu. A, *Acar plicata* (Dillwyn, 1817), SL 18.4 mm (ZRC.MOL.20923); B, *Lamarcka ocellata* Reeve, 1844, SL 12.2 mm (ZRC.MOL.22585); C, *Arca navicularis* Bruguière, 1789, SL 62.8 mm (ZRC.MOL.9652); D, *Barbatia amygdalumtostum* (Röding, 1798), SL 22.8 mm (ZRC.MOL.20924); E, *Barbatia decussata* (G. B. Sowerby I, 1833), SL 44.2 mm (ZRC.MOL.22112); F, *Barbatia trapezina* (Lamarck, 1819), SL 39.6 mm (ZRC.MOL.39.6 mm); G, *Barbatia foliata* (Forsskål in Niebuhr, 1775), SL 53.0 mm (ZRC.MOL.22113); H, *Mesocibota* cf. *signata* (Dunker, 1868), SL 8.1mm (ZRC.MOL.21507); I, *Arcopsis sculptilis* (Reeve, 1844), SL 5.3 mm (ZRC.MOL.20938); J, K, *Sheldonella lateralis* (Reeve, 1844), SL 8.1 mm (J) (ZRC.MOL.21326), SL 8.3 mm (K) (ZRC.MOL.21440).

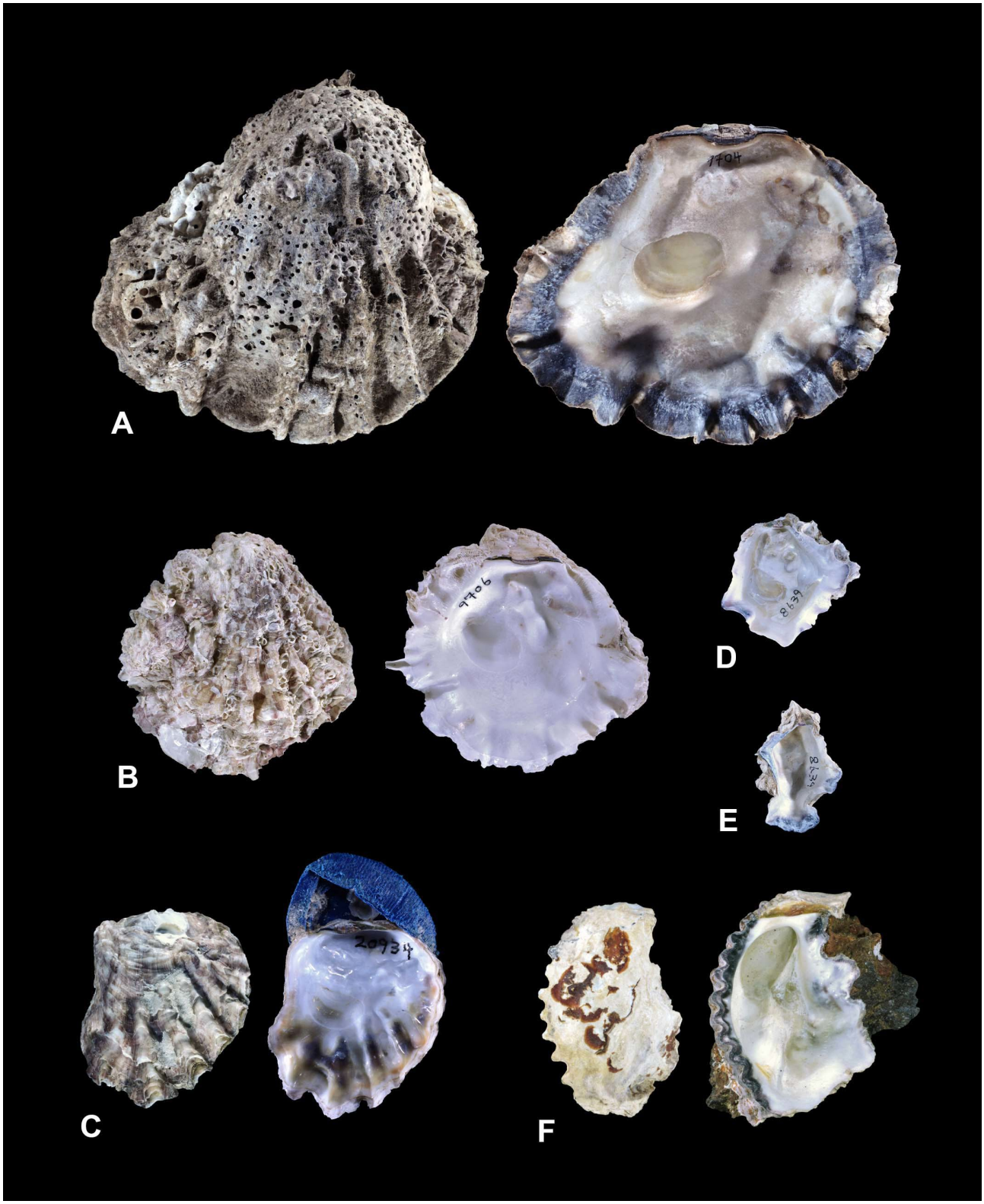

Fig. 14. Gryphaeidae (A, B) and Ostreidae (C–F) from Pulau Satumu. A, *Hyotissa hyotis* (Linnaeus, 1758), SL 146 mm (ZRC.MOL.9704); B, *Hyotissa inermis* (G. B. Sowerby II, 1871), SL 95.0 mm (ZRC.MOL.9706); C, *Dendostrea cristata* (Born, 1778), SL 50.3 mm (ZRC.MOL.20934); D, E, *Saccostrea cucullata* (Born, 1778), SL 33.8 mm (D), SL 34.0 mm (E) (ZRC.MOL.8639); F, *Saccostrea scyphophilla* (Péron & Lesueur, 1807), SL 56.9 mm (ZRC.MOL.9786).

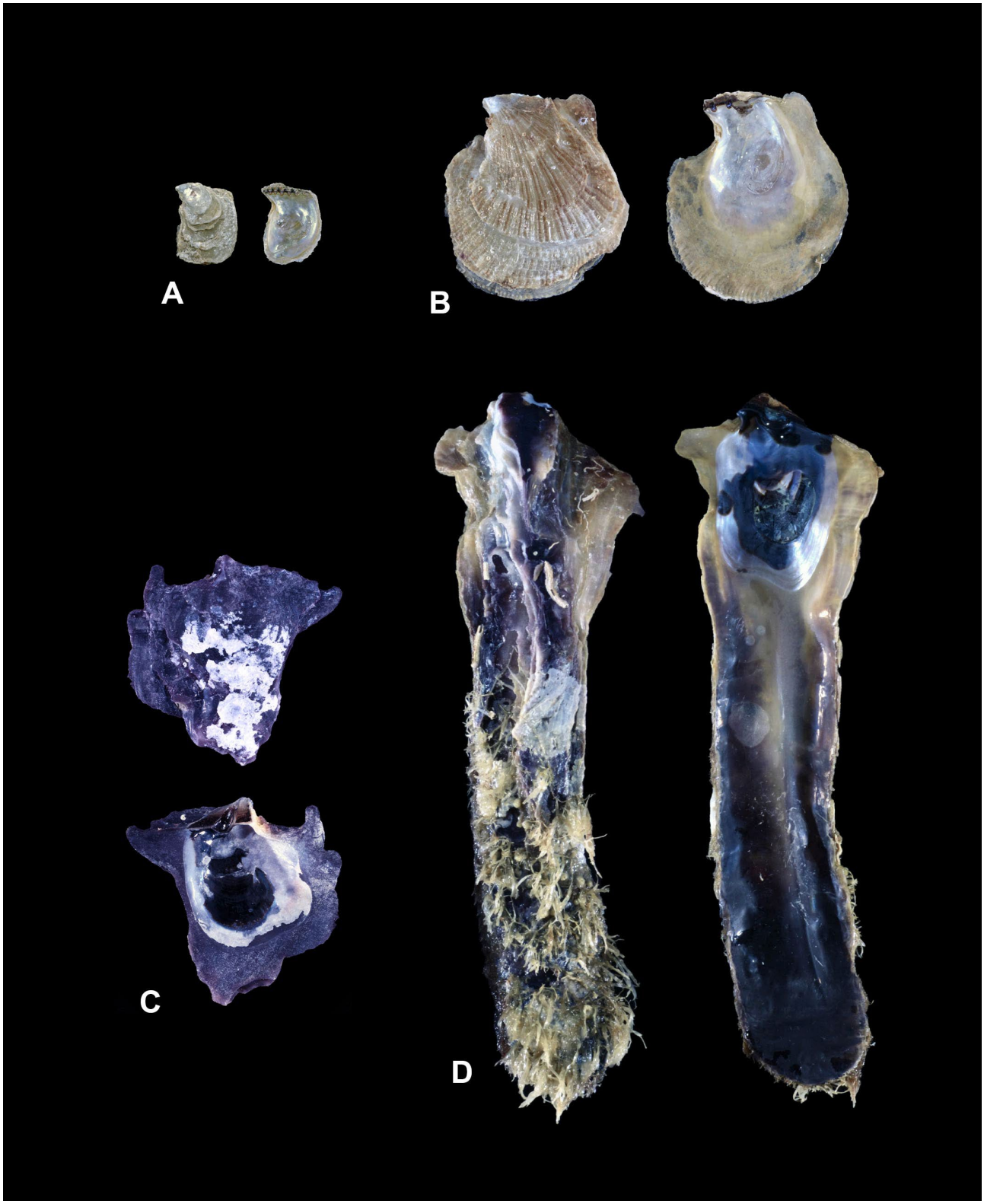

Fig. 15. Isognomonidae (A, B) and Malleidae (C, D) from Pulau Satumu. A, *Isognomon legumen* (Gmelin, 1791), SL 13.2 mm (ZRC.MOL.20929); B, *Isognomon perna* (Linnaeus, 1767), SL 37.1 mm (ZRC.MOL.20928); C, *Malleus daemoniacus* Reeve, 1858, SL. 38.5 mm (ZRC.MOL.24992); D, *Malleus regula* (Forsskål in Niebuhr, 1775), SL 134.8 mm (ZRC.MOL.20921).

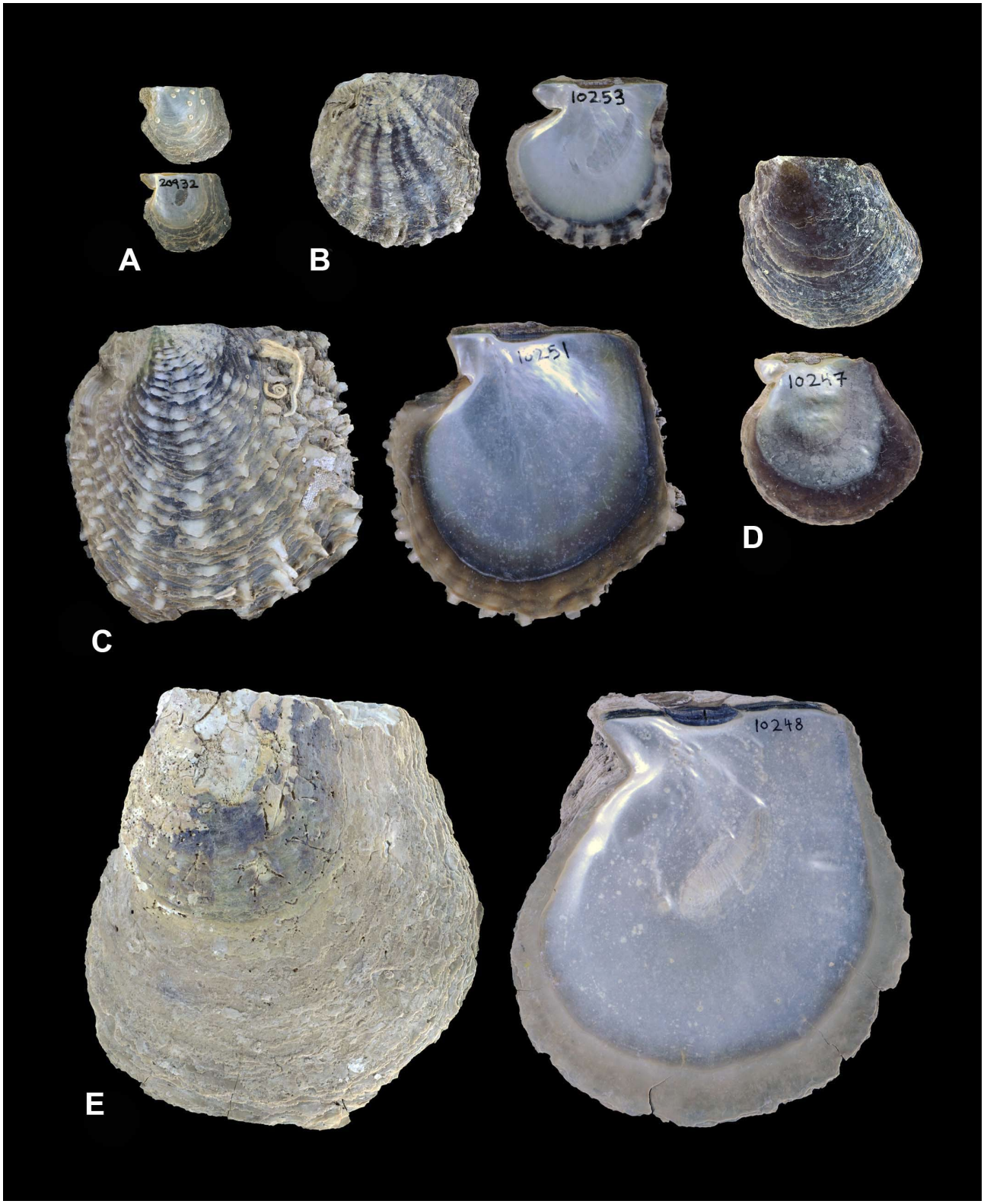

Fig. 16. Margaritidae from Pulau Satumu. A, *Pinctada albina* (Lamarck, 1819), SL 21.9 mm (ZRC.MOL.20932); B, *Pinctada imbricata* Röding, 1798, SL 43.7 mm (ZRC.MOL.10253); C, *Pinctada margaritifera* (Linnaeus, 1758), SL 75.2 mm (ZRC.MOL.10251); D, *Pinctada nigra* (Gould, 1850), SL 43.2 mm (ZRC.MOL.10247); E, *Pinctada maxima* (Jameson, 1901), SL 200.7 mm (ZRC.MOL.10248).

Fig. 17. Pteriidae (A, B) and Vulsellidae (C) from Pulau Satumu. A, *Pteria heteroptera* (Lamarck, 1819), SL 80.4 mm (ZRC.MOL.10252); B, *Pteria penguin* (Röding, 1798), SL 153.7 mm (ZRC.MOL.10250); C, *Vulsella vulsella* (Linnaeus, 1758), SL 25.1 mm (ZRC.MOL.21551).

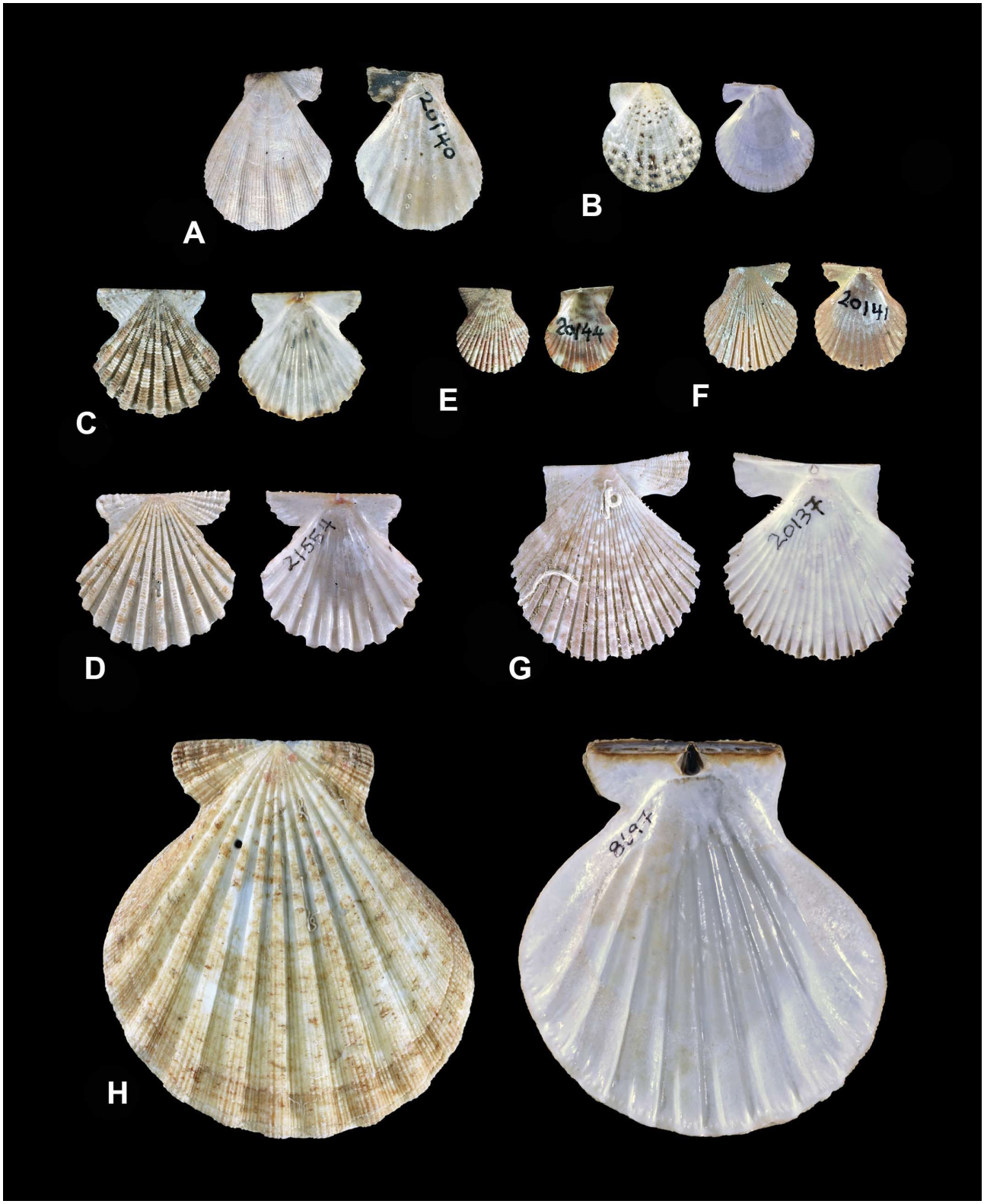

Fig. 18. Pectinidae from Pulau Satumu. A, *Complicachlamys wardiana* Iredale, 1939, SL 20.0 mm (ZRC.MOL.20140); B, *Coralichlamys madreporarum* (G. B. Sowerby II, 1842), SL 12.6 mm (ZRC.MOL.20934); C, D, *Excellichlamys histrionica* (Gmelin, 1791), SL 15.7 mm (C) (ZRC.MOL.20136), SL 19.8 mm (D) (ZRC.MOL.21554); E, F, *Mimachlamys cloacata* (Reeve, 1853), SL 10.6 mm (E) (ZRC.MOL.20144), SL 13.1 mm (F) (ZRC.MOL.20141); G, *Volachlamys singaporina* (G. B. Sowerby II, 1842) SL 25.1 mm (ZRC.MOL.20137), H, *Decatopecten radula* (Linnaeus, 1758), SL 99.1 mm (ZRC.MOL.8697).

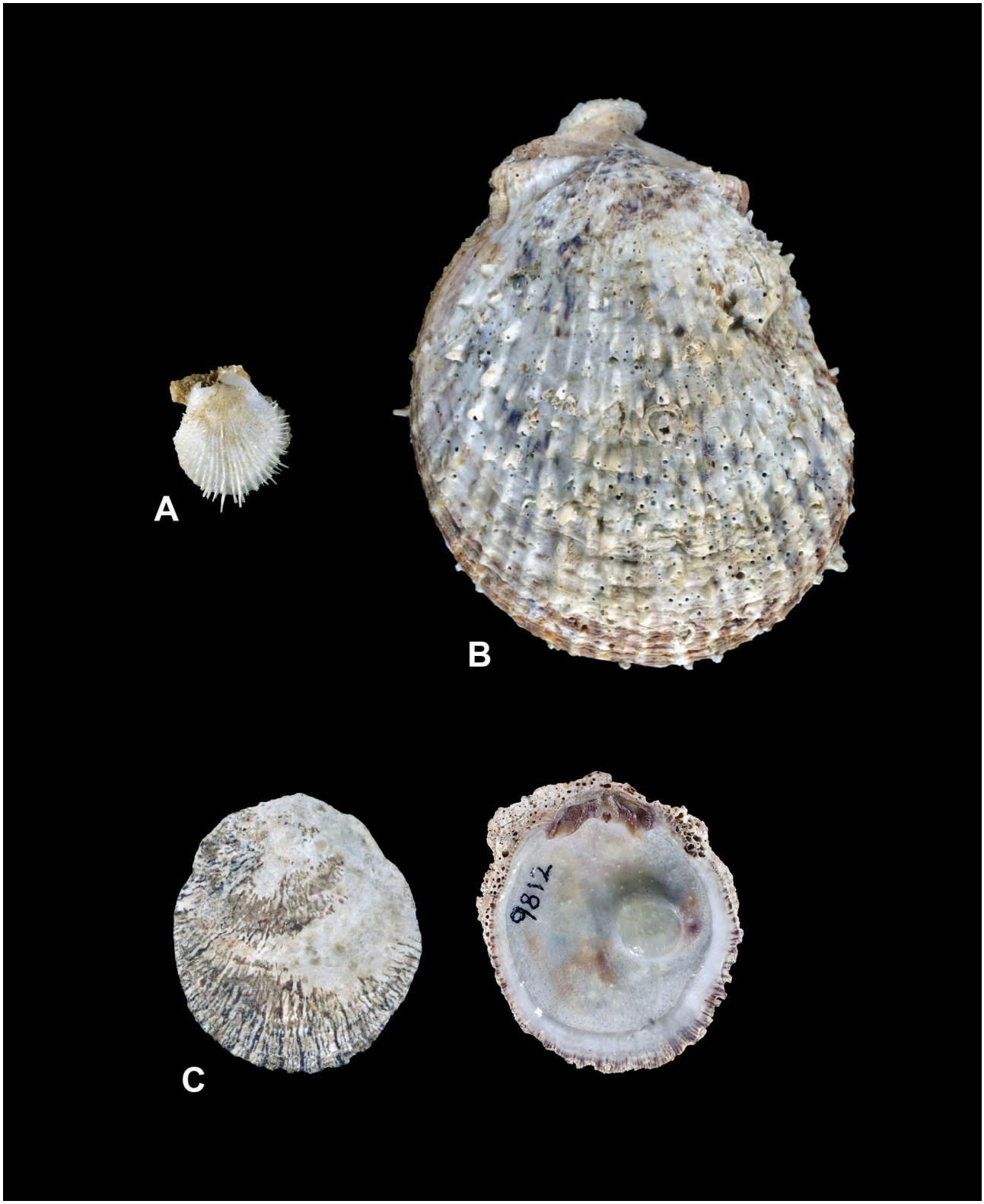

Fig. 19. Spondylidae (A, B) and Plicatulidae (C) from Pulau Satumu. A, *Spondylus echinatus* Schreibers, 1793, SL 21.0 mm (ZRC.MOL.22313); B, *Spondylus versicolor* Schreibers, 1793, SL 103.7 mm (ZRC.MOL.5720); C, *Plicatula australis* Lamarck, 1819, SL 47.3 mm (ZRC.MOL.9812).

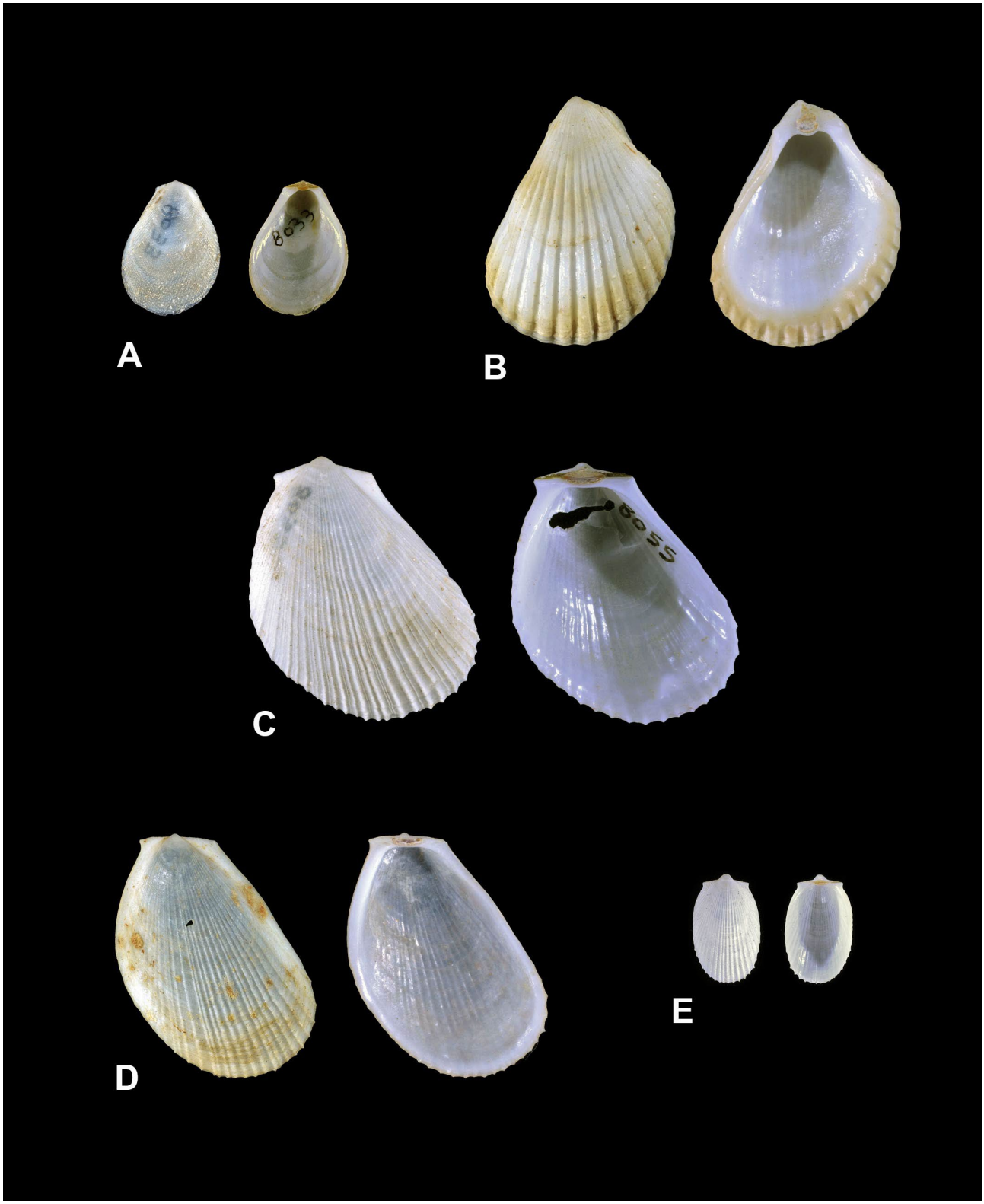

Fig. 20. Limidae from Pulau Satumu. A, *Ctenoides annulatus* (Lamarck, 1819), SL 17.6 mm (ZRC.MOL.8033); B, *Lima vulgaris* (Link, 1807), SL 30.1 mm (ZRC.MOL.25007); C, *Limaria basilanica* (A. Adams & Reeve, 1850), SL 32.5 mm (ZRC.MOL.8055); D, *Limaria fragilis* (Gmelin, 1791), SL 30.5 mm (ZRC.MOL.9707); E, *Limatula bullata* (Born, 1778), SL 13.6 mm (ZRC.MOL.21283).

Fig. 21. Carditidae (A, B) and Solenidae (C, D) from Pulau Satumu. A, *Beguina semiorbiculata* (Linnaeus, 1758), SL 75.2 mm (ZRC.MOL.20925); B, *Cardita variegata* Bruguière, 1792, SL 16.8 mm (ZRC.MOL.22587); C, D, *Solen soleneae* von Cosel, 2002, SL 30.3 mm (C), SL 28.7 mm (D) (ZRC.MOL.20145).

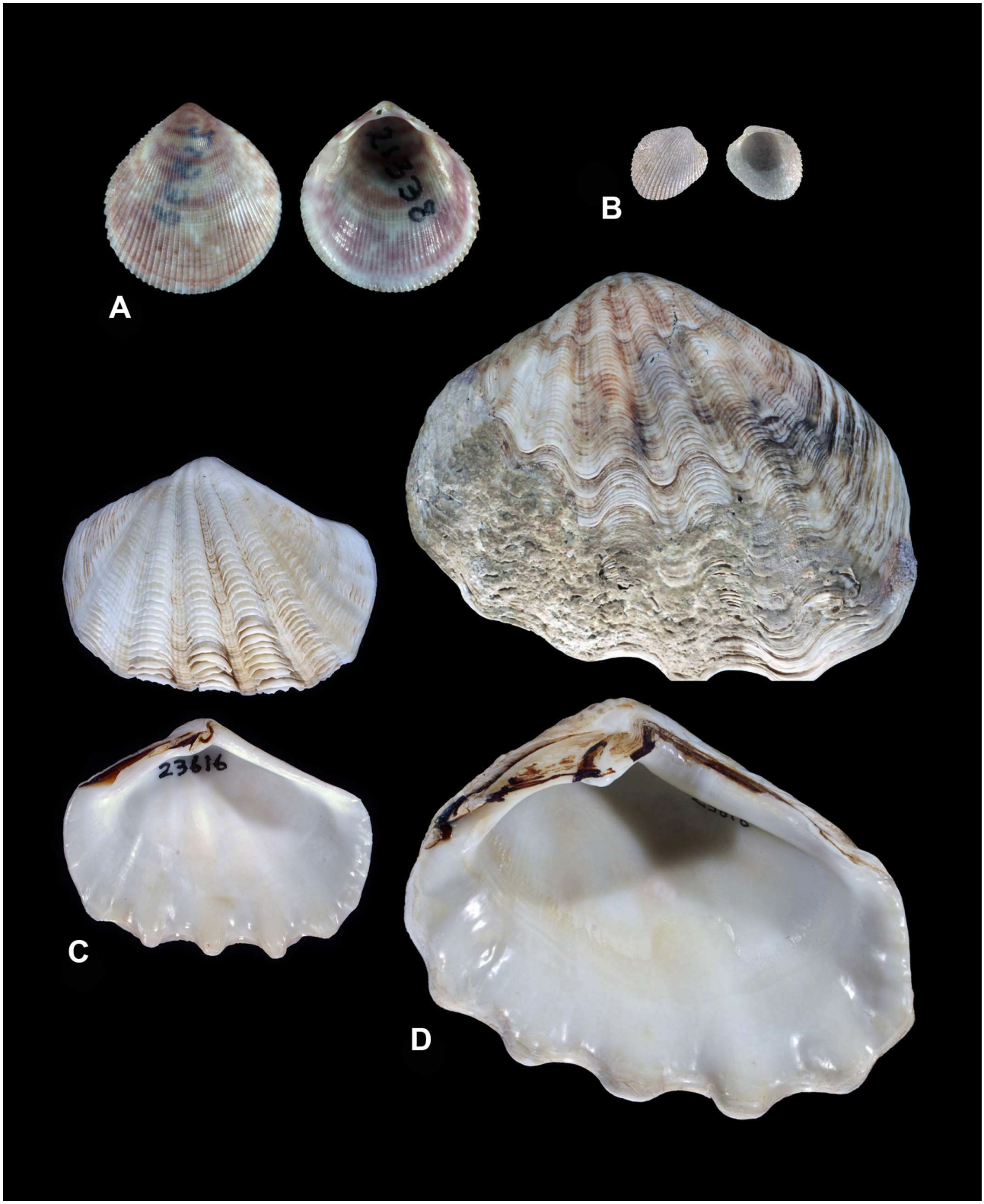

Fig. 22. Cardiidae from Pulau Satumu. A, *Acrosterigma transcendens* (Melvill & Standen, 1899), SL 12.3 mm (ZRC.MOL.21338); B, *Maoricardium setosum* (Redfield, 1846), SL 4.7 mm (ZRC.MOL.21522); C, D, *Tridacna crocea* Lamarck, 1819, SL 76.7 mm (C), SL 128.6 mm (D) (ZRC.MOL.23616).

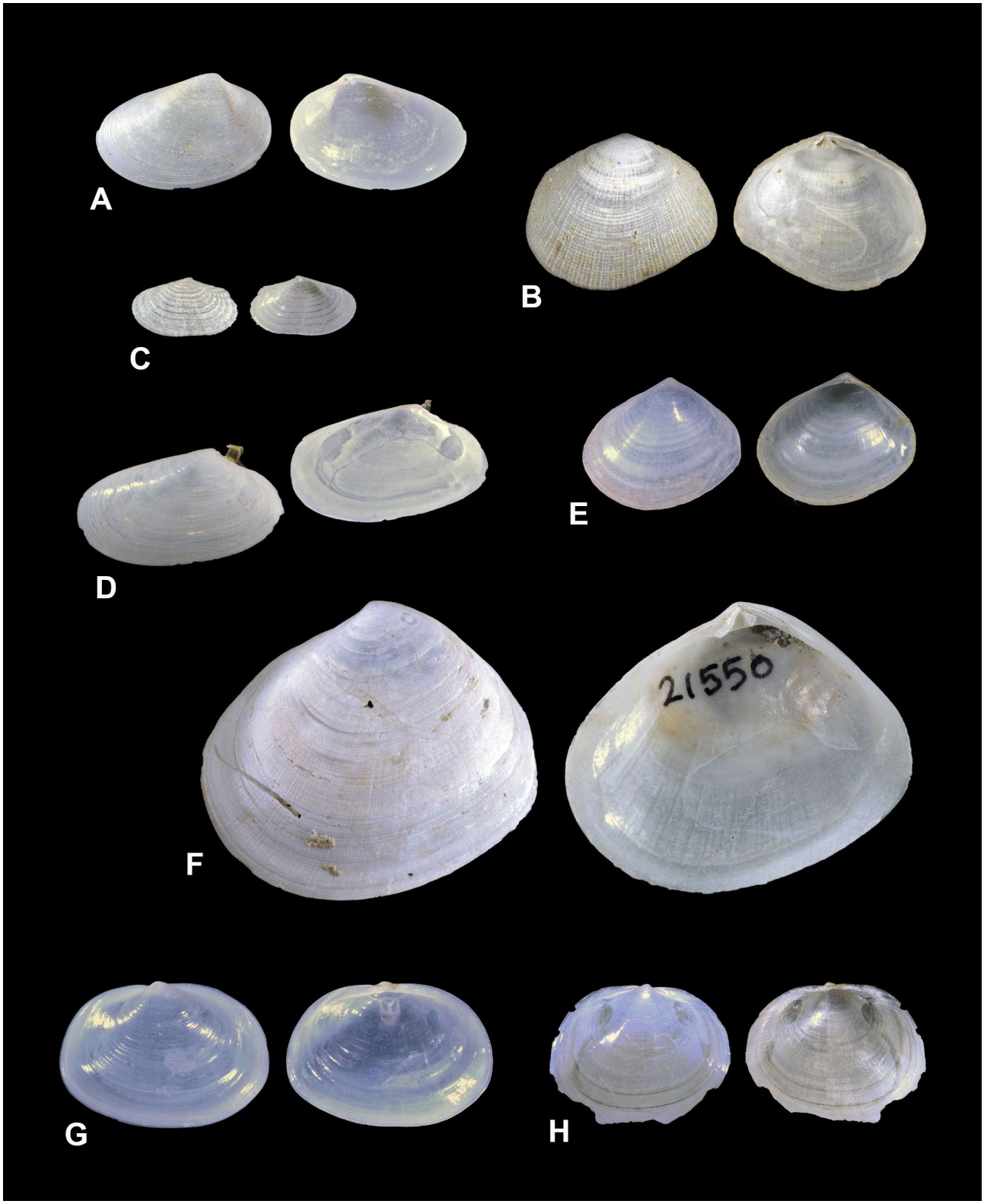

Fig. 23. Tellinidae (A–F) and Galeommatidae (G, H) from Pulau Satumu. A, *Cadella* cf. *diluta* (E. A. Smith, 1885), SL 8.0 mm (ZRC.MOL.21351); B, *Clathrotellina* sp., SL 8.8 mm (ZRC.MOL.21460); C, *Herouvalia caelata* (A. Adams, 1854), SL 4.7 mm (ZRC.MOL.21529); D, *Jactellina clathrata* (Deshayes in Deshayes & Milne-Edwards, 1835), SL 9.2 mm (ZRC.MOL.22252); E, *Pinguitellina* sp., SL 7.0 mm (ZRC.MOL.16786); F, *Macalia bruguieri* (Hanley, 1844), SL 25.0 mm (ZRC.MOL.21559); G, *Scintilla hanleyi* Deshayes, 1856, SL 13.2 mm (ZRC.MOL.9696); H, *Scintilla cuvieri* Deshayes, 1856, SL 11.0 mm (ZRC.MOL.16785).

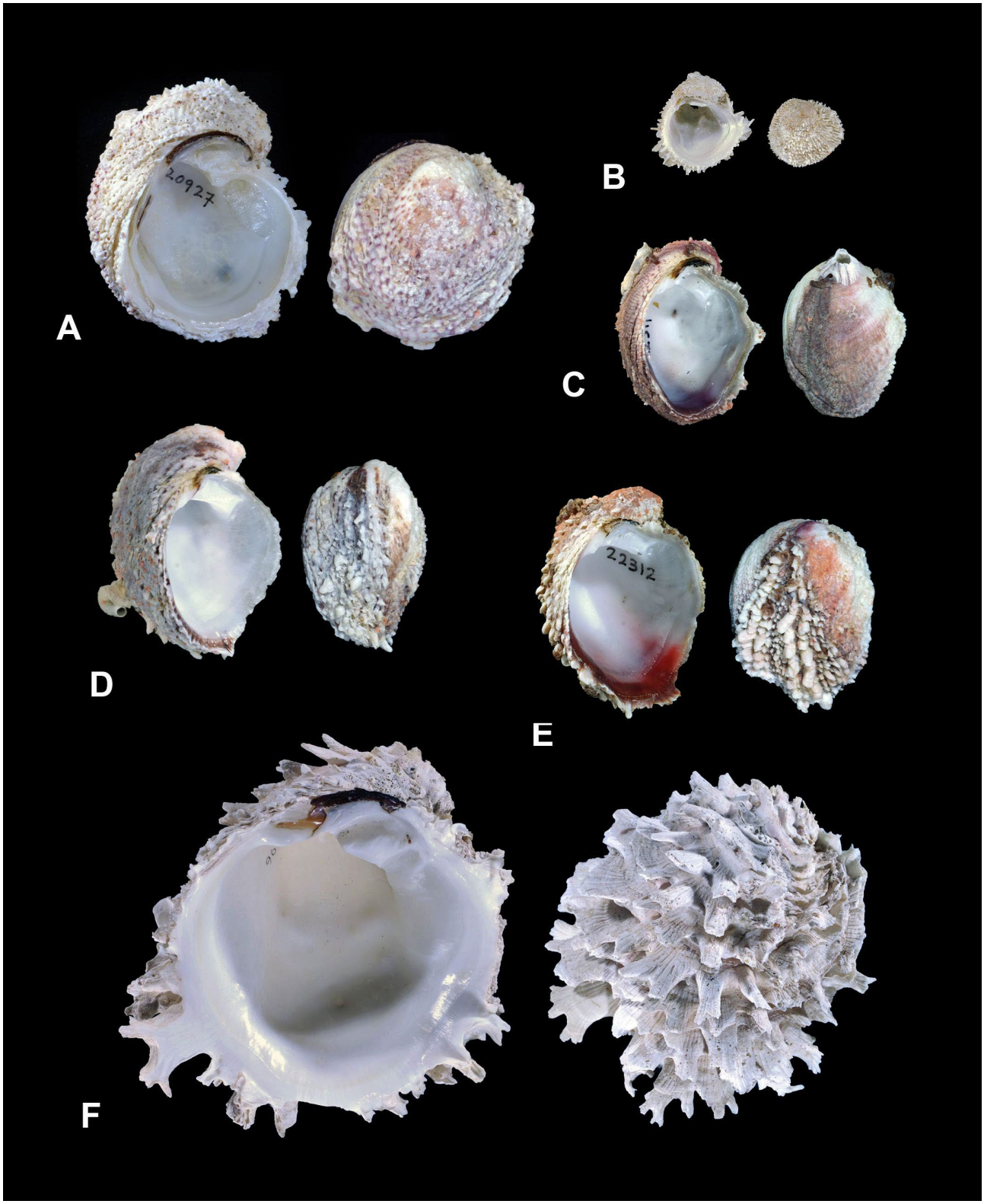

Fig. 24. Chamidae from Pulau Satumu. A, *Chama brassica* Reeve, 1847, SL 69.1 mm (ZRC.MOL.20927); B, *Chama asperella* Lamarck, 1819, SL 18.3 mm (ZRC.MOL.24990); C, *Chama dunkeri* Lischke, 1870, SL 48.7 mm (ZRC.MOL.22311); D, *Chama* cf. *croceata* Lamarck, 1819, SL 58.9 mm (ZRC.MOL.23504); E, *Chama pacifica* Broderip, 1835, SL 55.6 mm (ZRC.MOL.22312); F, *Chama lazarus* Linnaeus, 1758, SL 99.8 mm (ZRC.MOL.9684).

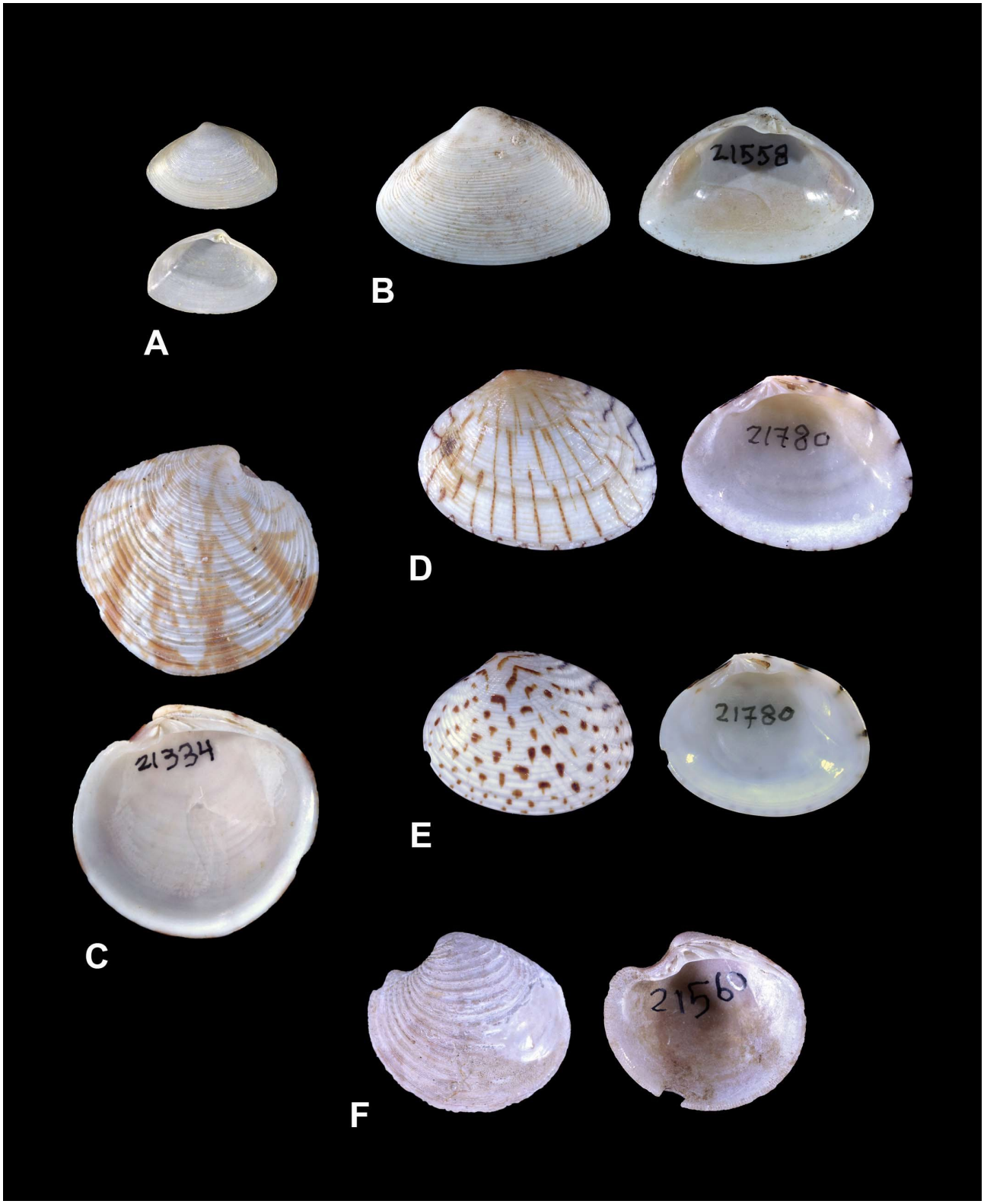

Fig. 25. Mactridae (A, B) and Veneridae (C–F) from Pulau Satumu. A, B, *Oxyperas transversum* (Reeve, 1854), SL 10.2 mm (A) (ZRC.MOL.21342), SL 21.6 mm (B) (ZRC.MOL.21558); C, *Dosinia histrio* (Gmelin, 1791), SL 22.5 mm (ZRC.MOL.21334); D, E, *Gafrarium dispar* (Holten, 1802), SL 22.3 mm (D), SL 19.6 mm (E) (ZRC.MOL.21780); F, *Globivenus toreuma* (Gould, 1850), SL 18.5 mm (ZRC.MOL.21560).

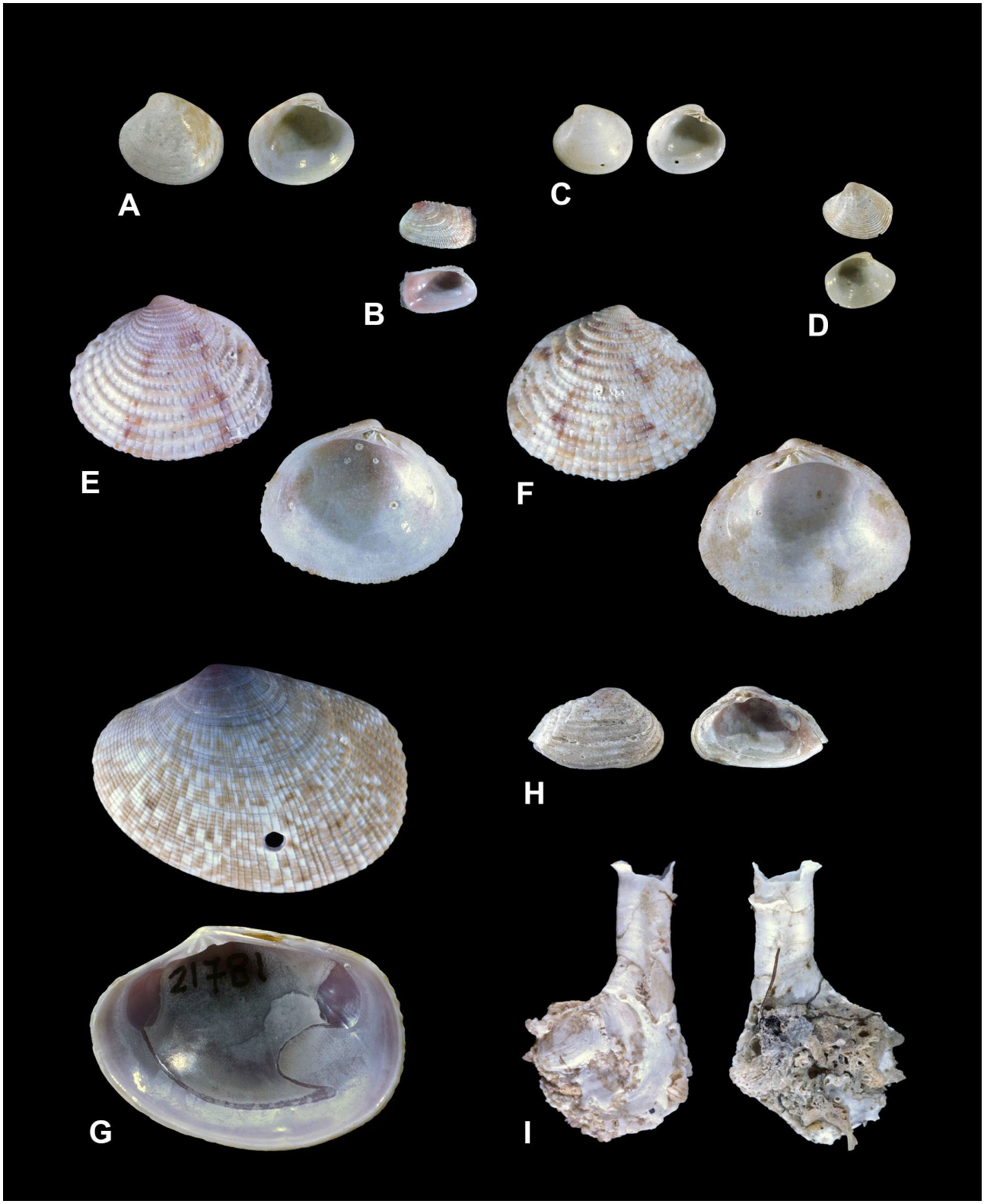

Fig. 26. Veneridae (A–G), Corbulidae (H) and Clavagellidae (I) from Pulau Satumu. A, *Hyphantosoma* cf. *intricatum* (Dautzenberg, 1908)., SL 6.0 mm (ZRC.MOL.21350); B, *Irus irus* (Linnaeus, 1758), SL 4.7 mm (ZRC.MOL.21340); C, *Pitar* sp., SL 4.8 mm (ZRC.MOL.21525); D, *Protapes gallus* (Gmelin, 1791), SL 4.2 mm (ZRC.MOL.21524); E, F, *Timoclea subnodulosa* (Hanley, 1845), SL 12.4 mm (E), SL 13.0 mm (F) (ZRC.MOL.21336); G, *Venerupis aspera* (Quoy & Gaimard, 1835), SL 19.2 mm (ZRC.MOL.21781); H, *Corbula* cf. *ovalina* Lamarck, 1818, SL 8.4 mm (ZRC.MOL.21441); I, *Bryopa lata* (Broderip, 1835), SL 17.4 mm (ZRC.MOL.10093).

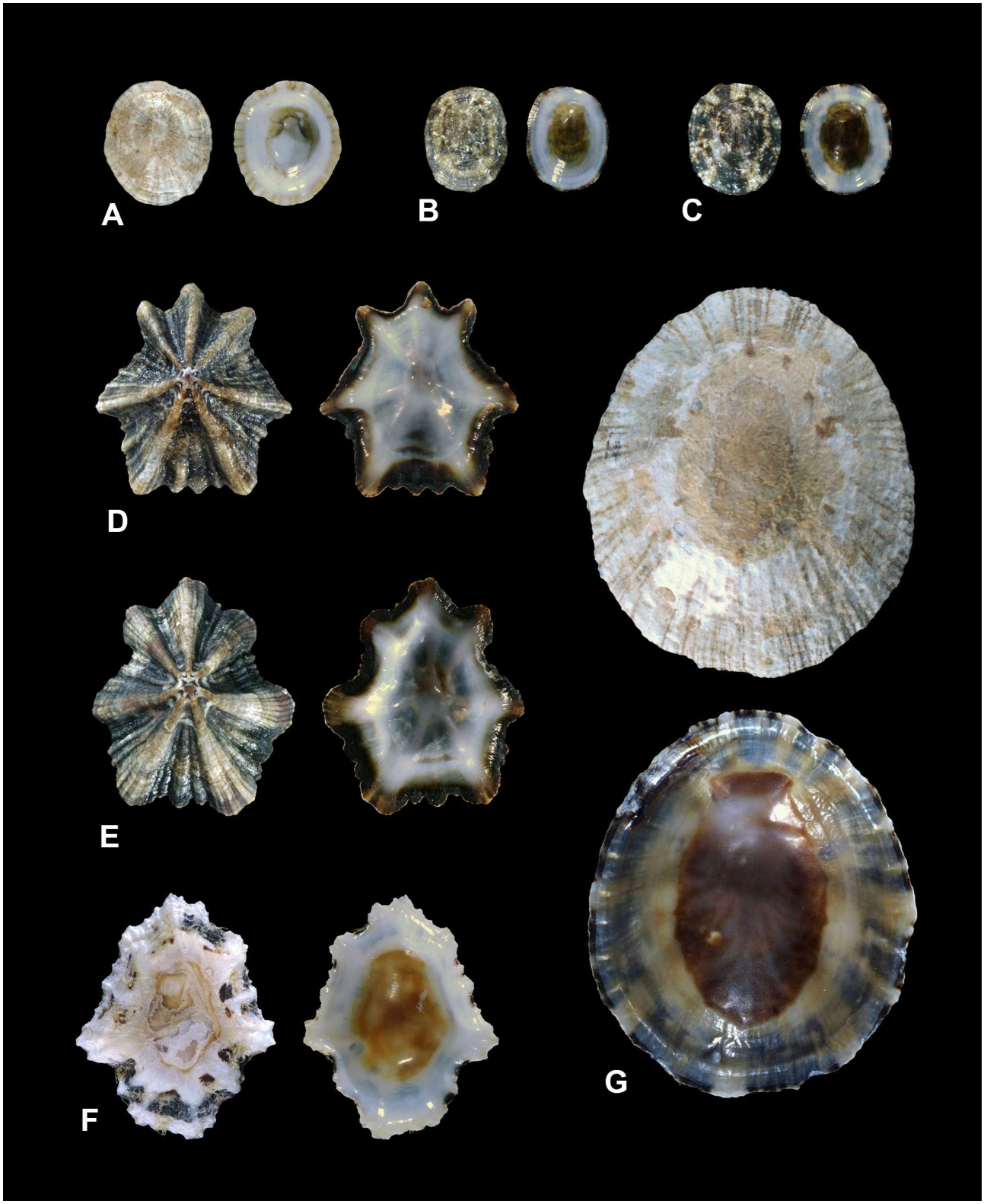

Fig. 27. Lottiidae (A–E), Nacellidae (G) and Patellidae (F) from Pulau Satumu. A, *Lottia* sp., SL 9.5 mm (ZRC.MOL.24595); B, C, *Patelloida heroldi* (Dunker, 1861), SL 7.6 mm (B), SL 8.2 mm (C) (ZRC.MOL.10377); D, E, *Patelloida saccharina* (Linnaeus, 1758), SL 26.0 mm (D), SL 29.8 mm (E) (ZRC.MOL.25005); F, *Scutellastra flexuosa* (Quoy & Gaimard, 1834), SL 30.1 mm (ZRC.MOL.20912); G, *Cellana radiata* (Born, 1778), SL 47.0 mm (ZRC.MOL.20906).

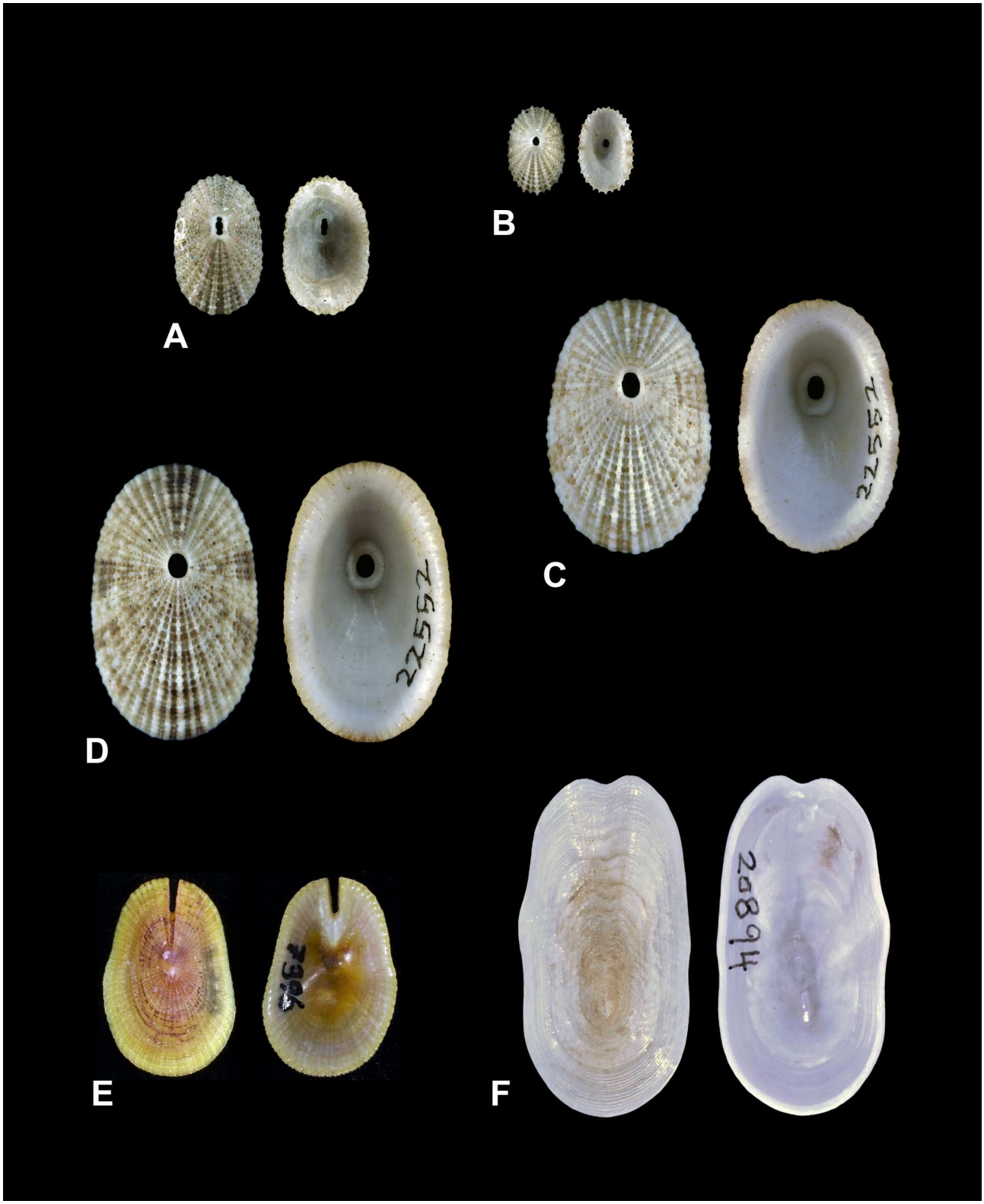

Fig. 28. Fissurellidae from Pulau Satumu. A, *Diodora quadriradiata* (Reeve, 1850), SL 8.6 mm (ZRC.MOL.21346); B, *Diodora* cf. *ruppellii* (G. B. Sowerby I, 1835), SL 5.5 mm (ZRC.MOL.21344); C, D, *Diodora singaporensis* (Reeve, 1850), SL 18.5 mm (C), SL 20.7 mm (D) (ZRC.MOL.22552); E, *Emarginella incisura* (A. Adams, 1852), SL 14.6 mm (ZRC.MOL.7396); F, *Scutus unguis* (Linnaeus, 1758), SL 25.4 mm (ZRC.MOL.20894).

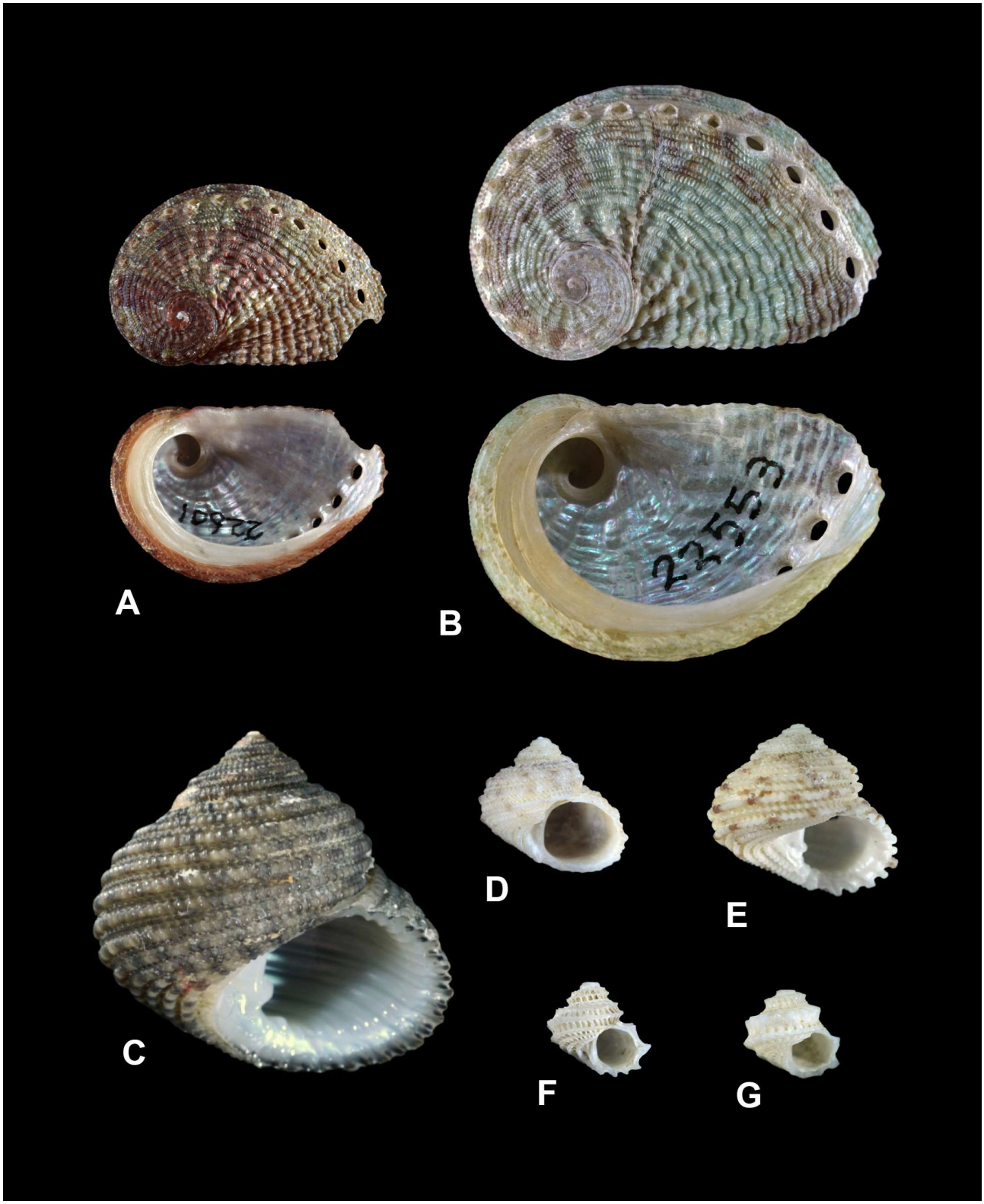

Fig. 29. Haliotidae (A, B) and Chilodontaidae (C–G) from Pulau Satumu. A, B, *Haliotis clathrata* Reeve, 1846, SL 17.4 mm (A) (ZRC.MOL.20601), SL 26.1 mm (B) (ZRC.MOL.22553); C, *Euchelus atratus* (Gmelin, 1791), SL 13.0 mm (ZRC.MOL.20888); D, *Euchelus asper* (Gmelin, 1791), SL 5.0 mm (ZRC.MOL.19195); E, *Herpetopoma exasperatum* (A. Adams, 1853), SL 6.2 mm (ZRC.MOL.24074); F, *Vaceuchelus foveolatus* (A. Adams, 1853), SL 3.5 mm (ZRC.MOL.23495); G, *Vaceuchelus* sp., SL 3.3 mm (ZRC.MOL.19190).

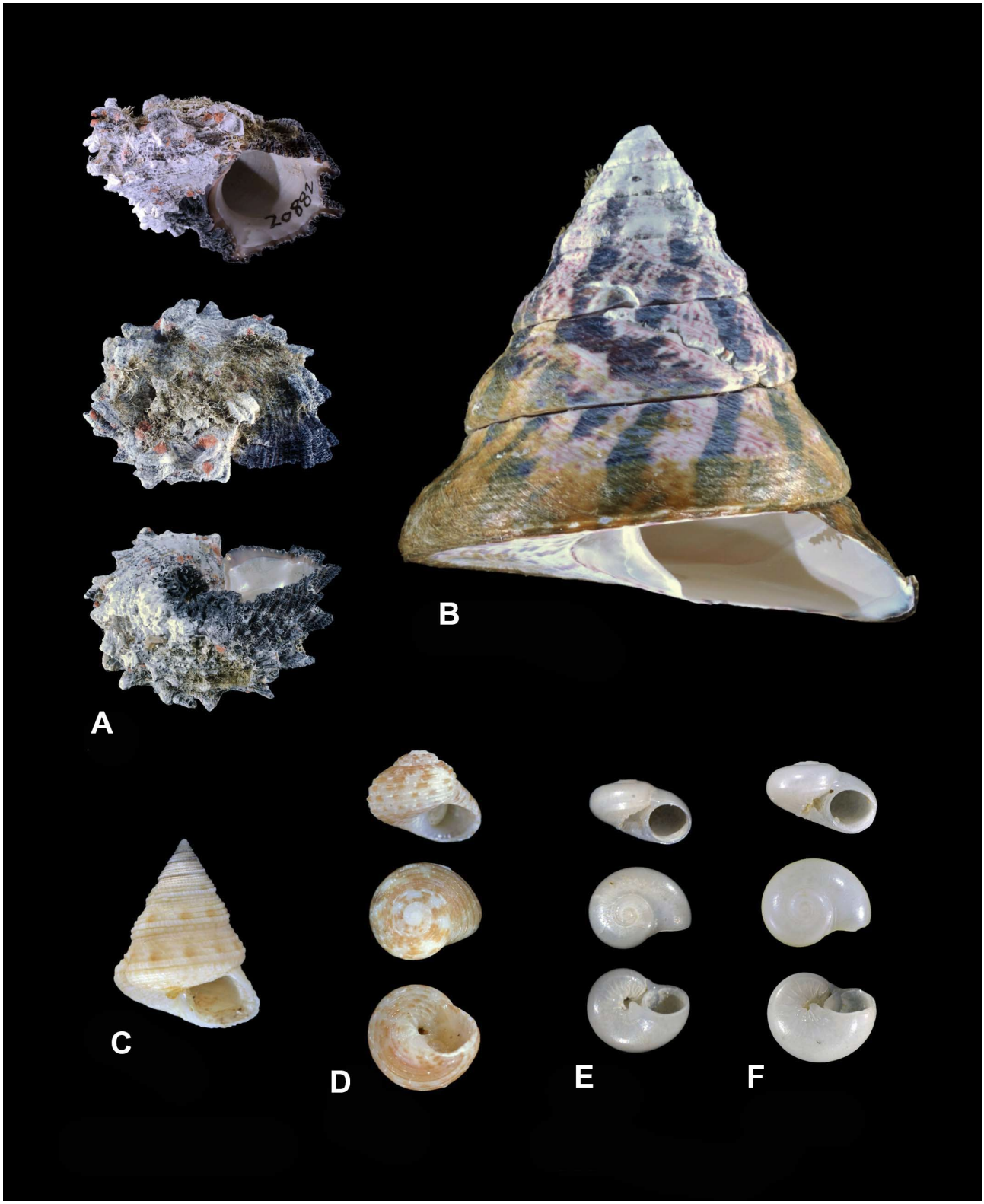

Fig. 30. Angariidae (A), Calliostomatidae (C), Colloniidae (D), Skeneidae (E, F) and Tegulidae (B) from Pulau Satumu. A, *Angaria delphinus* (Linnaeus, 1758), SL 48.6 mm (ZRC.MOL.20882); B, *Rochia maxima* (Koch in Philippi, 1844), SL 94.0 mm (ZRC.MOL.24988); C, *Calliostoma scobinatum* (Reeve, 1863), SL 14.0 mm (ZRC.MOL.21127); D, *Collonista granulosa* (Pease, 1868), SL 4.3 mm (ZRC.MOL.22545); E, F, *Leucorhynchia tryoni* Pilsbry, 1891, SL 3.6 mm (E), SL 4.0 mm (F) (ZRC.MOL.19115).

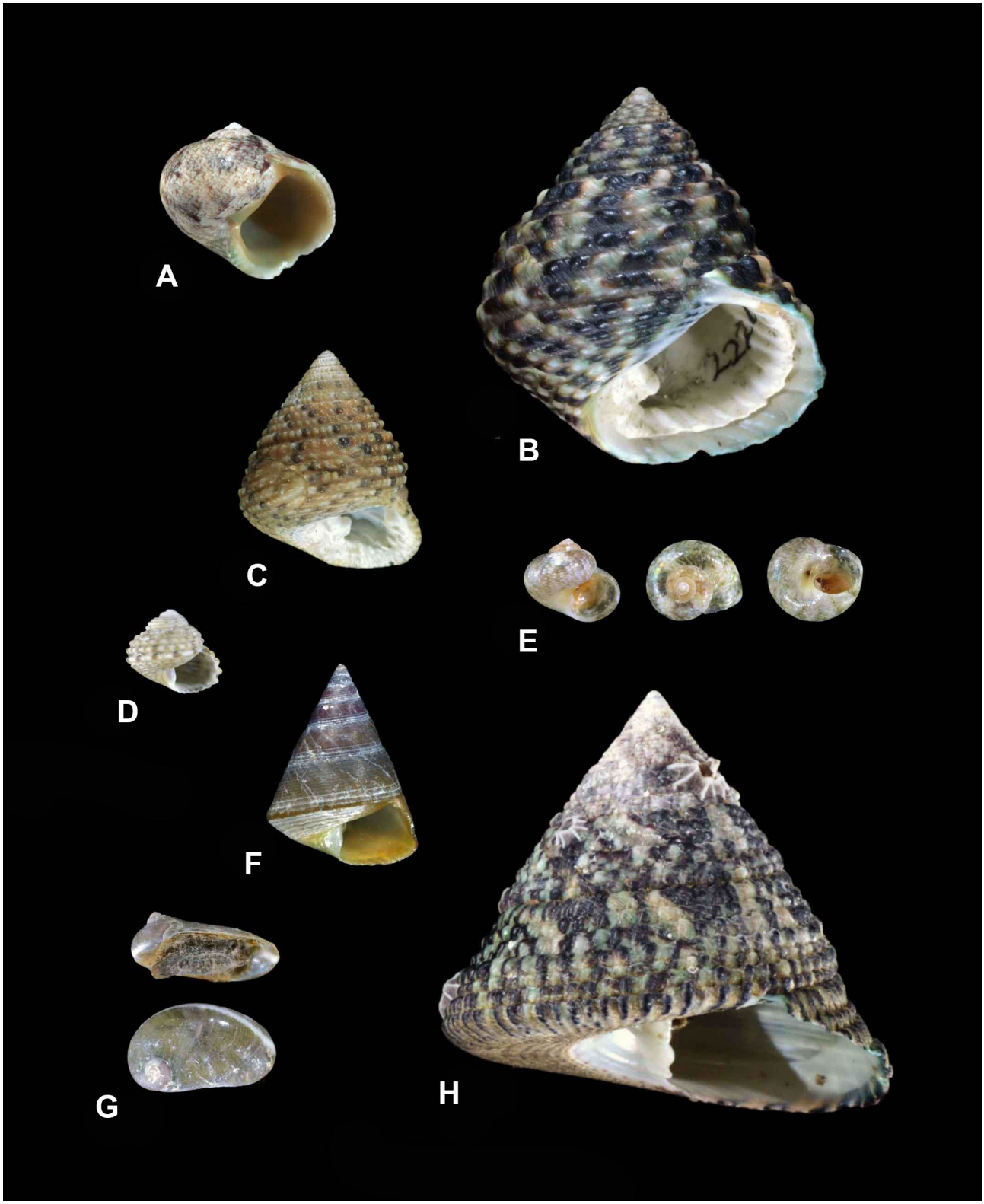

Fig. 31. Trochidae from Pulau Satumu. A, *Chrysostoma paradoxum* (Born, 1780), SL 9.9 mm (ZRC.MOL.22619); B, *Monodonta labio* (Linnaeus, 1758), SL 23.9 mm (ZRC.MOL.22260); C, *Clanculus margaritarius* (Philippi, 1846), SL 13.5 mm (ZRC.MOL.11624); D, *Clanculus bronni* (Dunker, 1860), SL 3.1 mm (ZRC.MOL.24081); E, *Ethminolia* sp., SL 3.5 mm (ZRC.MOL.25015); F, *Jujubinus polychroma* (A. Adams, 1853), SL 7.2 mm (ZRC.MOL.25004); G, *Stomatella impertusa* (Burrow, 1815), SL 5.7 mm (ZRC.MOL.22583); H, *Trochus maculatus* Linnaeus, 1758, SL 33.3 mm (ZRC.MOL.22933).

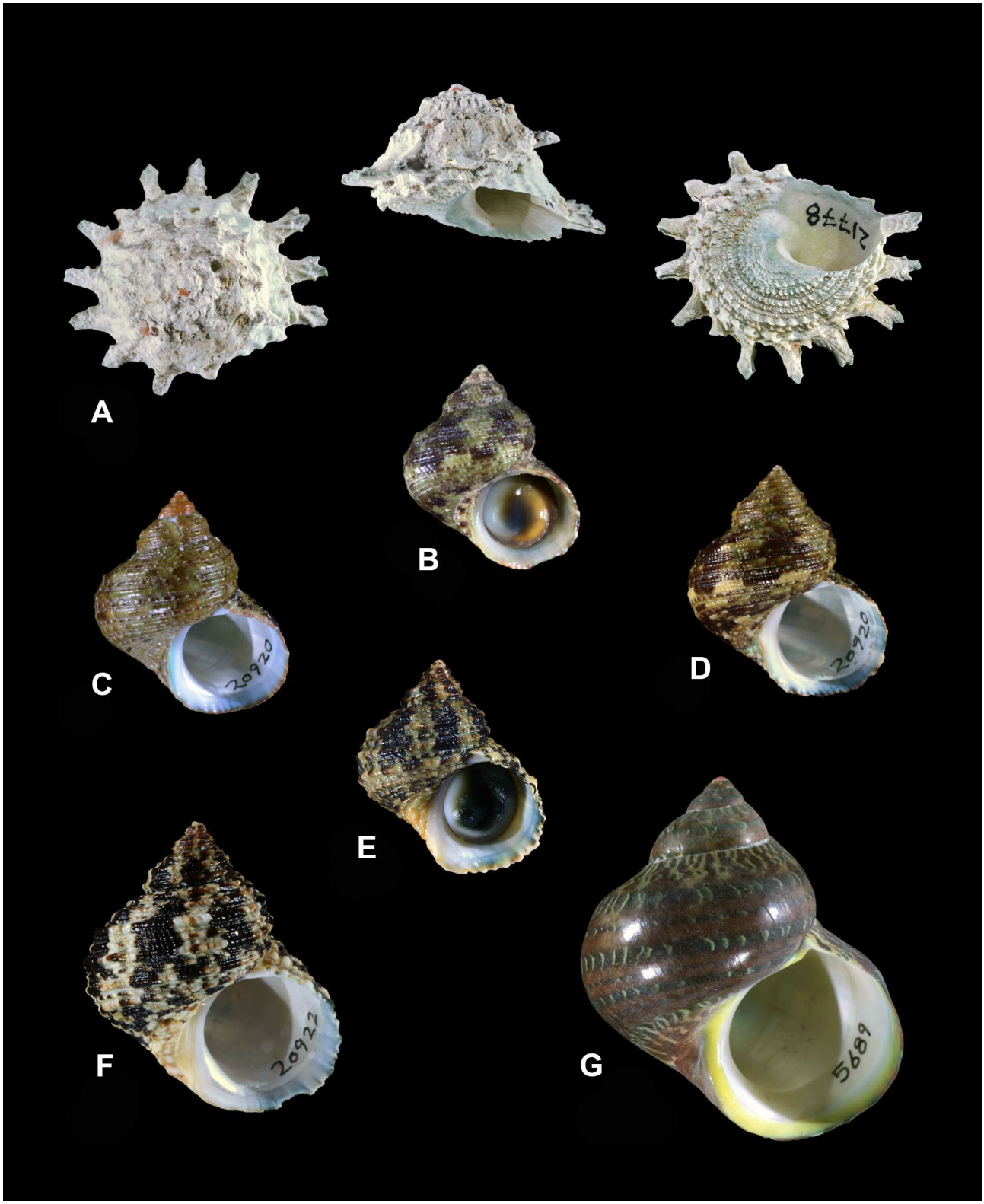

Fig. 32. Turbinidae from Pulau Satumu. A, *Astralium calcar* (Linnaeus, 1758), SL 45.4 mm (ZRC.MOL.21778); B–D, *Turbo articulatus* Reeve, 1848, SL 31.0 mm (B) (ZRC.MOL.16988), SL 34.1 mm (C), SL 35.4 mm (D) (ZRC.MOL.20920); E, F, *Turbo bruneus* (Röding, 1798), SL 32.7 mm (E) (ZRC.MOL.16991), SL 44.9 mm (F) (ZRC.MOL.20922); G, *Turbo petholatus* Linnaeus, 1758, SL 55.7 mm (ZRC.MOL.5689).

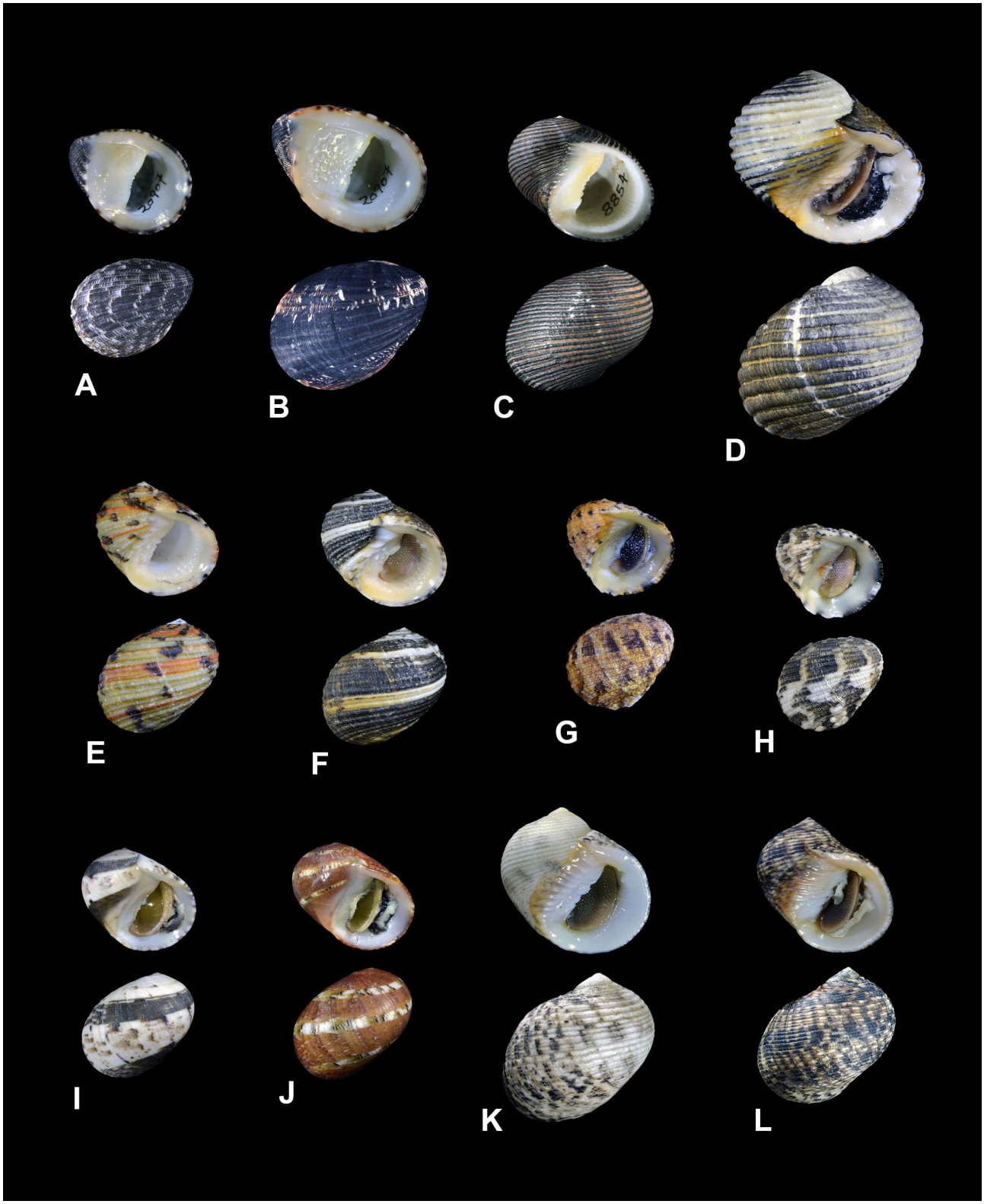

Fig. 33. Neritidae from Pulau Satumu. A, B, *Nerita albicilla* Linnaeus, 1758, SL 19.5 mm (A), SL 23.4 mm (B) (ZRC.MOL.20907); C, *Nerita articulata* Gould, 1847, SL 23.9 mm (ZRC.MOL.8854); D, *Nerita costata* Gmelin, 1791, SL 32.0 mm (ZRC.MOL.22321); E, F, *Nerita chamaeleon* Linnaeus, 1758, SL 18.5 mm (E), SL 24.0 mm (F) (ZRC.MOL.20908); G, H, *Nerita histrio* Linnaeus, 1758, SL 18.8 mm (G), SL 17.7 mm (H) (ZRC.MOL.22322); I, J, *Nerita litterata* Gmelin, 1791, SL 21.6 mm (I), SL 21.9 mm (J) (ZRC.MOL.22931); K, L, *Nerita undata* Linnaeus, 1758, SL 25.7 mm (K), SL 25.4 mm (L) (ZRC.MOL.22323).

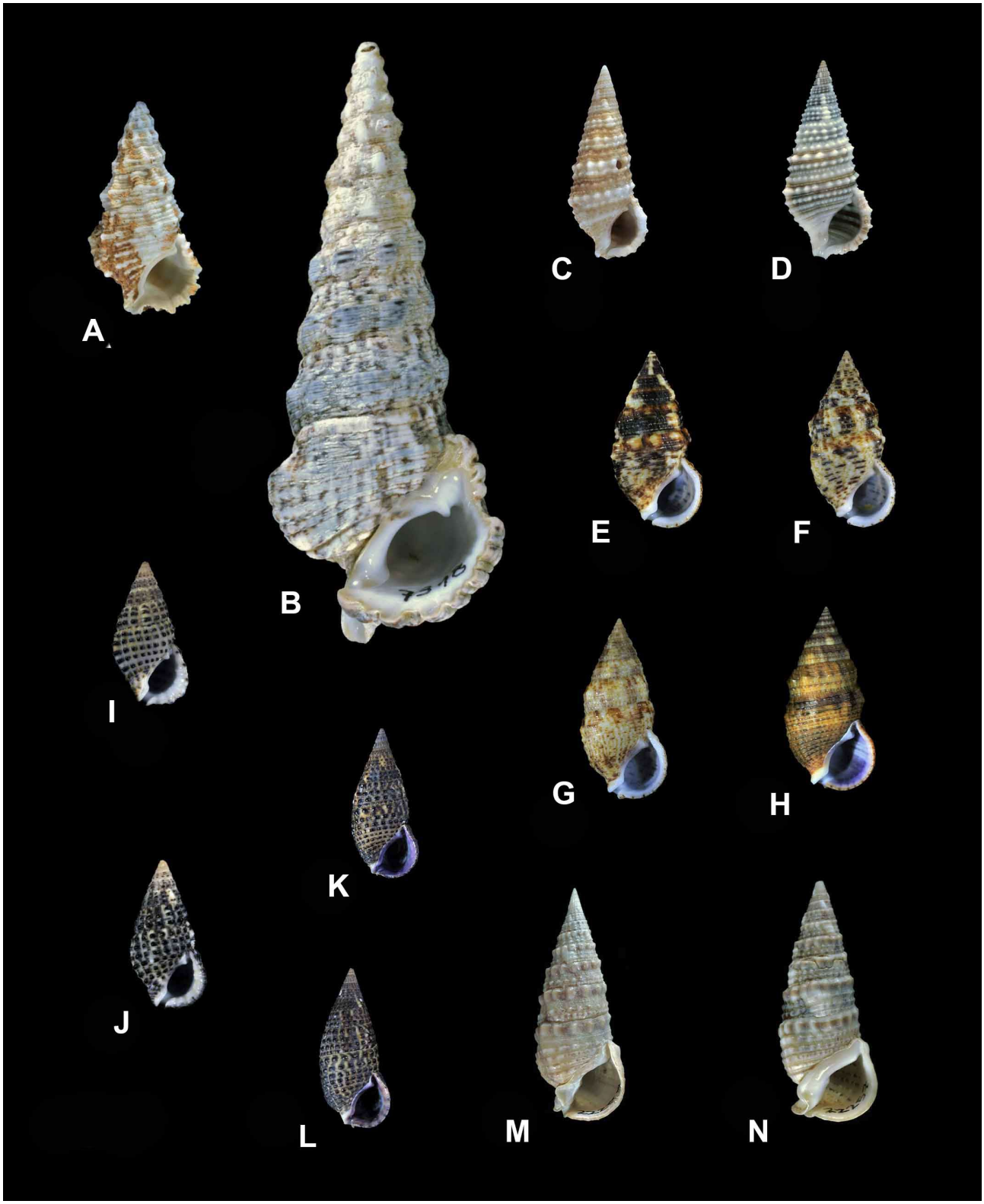

Fig. 34. Cerithiidae from Pulau Satumu. A, *Cerithium columna* G. B. Sowerby I, 1834, SL 33.1 mm (ZRC.MOL.22591); B, *Cerithium nodulosum* Bruguière, 1792, SL 95.9 mm (ZRC.MOL.7398); C, D, *Cerithium zonatum* (W. Wood, 1828), SL 30.1 mm (C), SL 30.4 mm (D), (ZRC.MOL.22592); E–H, *Clypeomorus petrosa* (W. Wood, 1828), SL 27.6 mm (E), SL 27.6 mm (F), SL 28.2 mm (G), SL 29.0 mm (H) (ZRC.MOL.22594); I, J, *Clypeomorus bifasciata* (G. B. Sowerby II, 1855), SL 22.0 mm (I), SL 23.3 mm (J) (ZRC.MOL.22593); K, L, *Clypeomorus purpurastoma* Houbrick, 1985, SL 22.0 mm (K), SL 23.5 mm (L) (ZRC.MOL.22595); M, N, *Rhinoclavis sinensis* (Gmelin, 1791), SL 35.4 mm (M), SL 37.2 mm (N) (ZRC.MOL.22257).

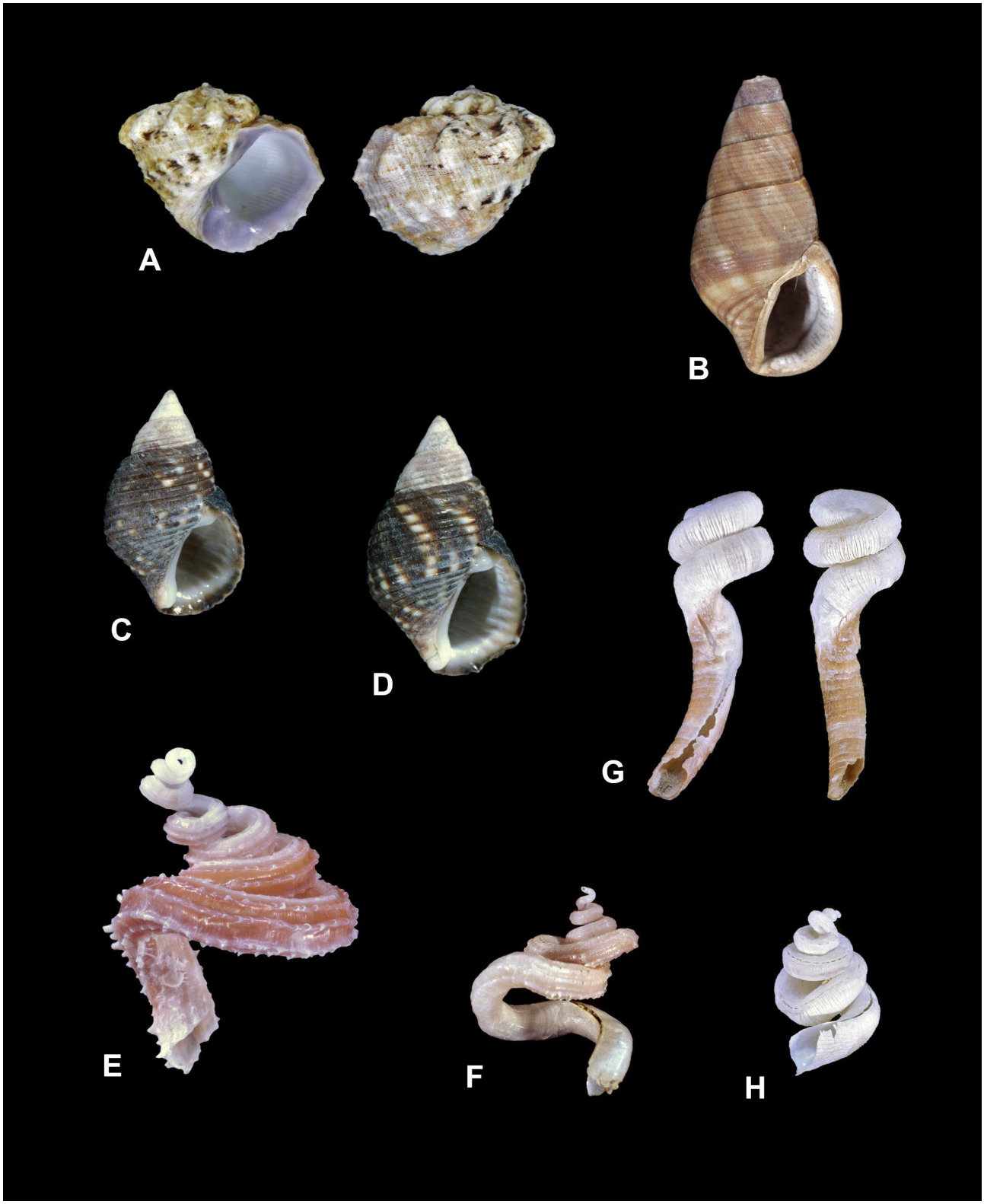

Fig. 35. Modulidae (A), Planaxidae (B–D) and Siliquariidae (E–H) from Pulau Satumu. A, *Indomodulus tectum* (Gmelin, 1791), SL 18.6 mm (ZRC.MOL.7379); B, *Fissilabia decollata* (Quoy & Gaimard, 1833), SL 27.5 mm (ZRC.MOL.22572); C, D, *Planaxis sulcatus* (Born, 1778), SL 21.0 mm (C), SL 23.9 mm (D) (ZRC.MOL.22573); E, F, *Tenagodus armatus* (Habe & Kosuge, 1967), SL 29.8 mm (E) (ZRC.MOL.20076), SL 19.8 mm (F) (ZRC.MOL.23492); G, *Tenagodus ponderosus* Mörch, 1861, SL 28.8 mm (ZRC.MOL.23493); H, *Tenagodus* sp., SL 15.9 mm (ZRC.MOL.18442).

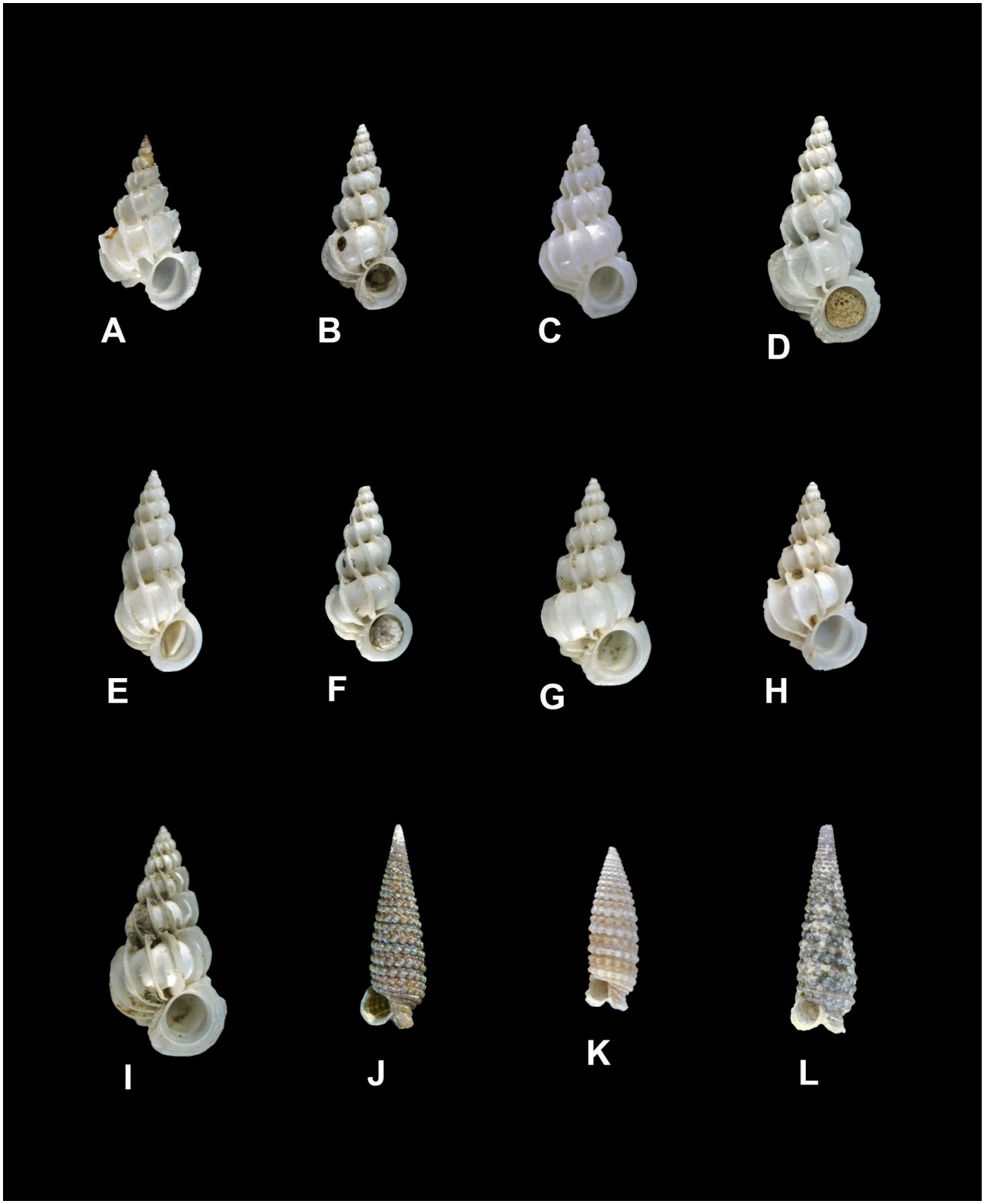

Fig. 36. Epitoniidae (A–I) and Triphoridae (J–L) from Pulau Satumu. A, *Cycloscala hyalina* (G. B. Sowerby II, 1844), SL 5.3 mm (ZRC.MOL.25037); B–D, *Epitonium moolenbeeki* van Aartsen, 1996, SL 5.8 mm (B) (ZRC.MOL.19126), SL 6.1 mm (C), SL 7.1 mm (D) (ZRC.MOL.18415); E, *Epitonium angustum* (Dunker, 1861), SL 6.0 mm (ZRC.MOL.25039); F, *Epitonium minorum* (Iredale, 1936), SL 5.4 mm (ZRC.MOL.25038); G, H, *Epitonium replicatum* (G. B. Sowerby II, 1844), SL 6.2 mm (G), SL 5.8 mm (H) (ZRC.MOL.25040); I, *Epitonium* cf. *townsendi* (Melvill & Standen, 1903), SL 7.0 mm (ZRC.MOL.25041); J, *Coriophora fusca* (Dunker, 1860), SL 6.2 mm (ZRC.MOL.22577); K, *Mastonia fulvescens* (Hervier, 1898), 5.0 mm (ZRC.MOL.19197); L, *Triphora subulata* Thiele, 1930, SL 6.2 mm (ZRC.MOL.22617).

Fig. 37. Cypraeidae from Pulau Satumu. A, *Bistolida stolida* (Linnaeus, 1758), SL 25.1 mm (ZRC.MOL.22550); B, *Erronea errones* (Linnaeus, 1758), SL 23.3 mm (ZRC.MOL.5902); C, *Erronea ovum* (Gmelin, 1791), SL 22.5 mm (ZRC.MOL.17055); D, *Purpuradusta gracilis* (Gaskoin, 1849), SL 17.2 mm (ZRC.MOL.20180); E, *Mauritia arabica* (Linnaeus, 1758), SL 72.5 mm (ZRC.MOL.22551).

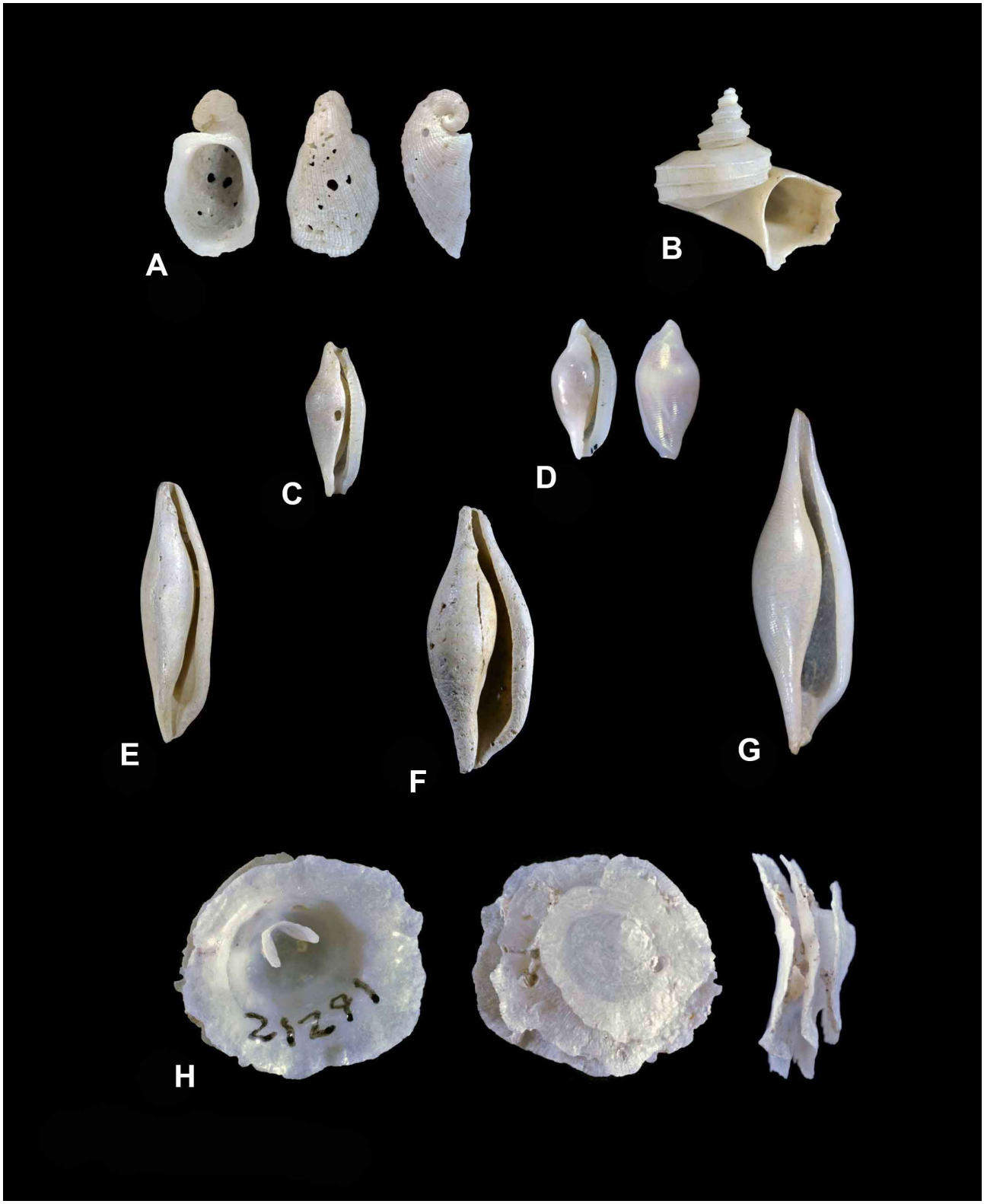

Fig. 38. Capulidae (A, B), Ovulidae (C–G), and Hipponicidae (H) from Pulau Satumu. A, *Capulus violaceus* Angas, 1867, SL 7.9 mm (ZRC.MOL.21286); B, *Separatista separatista* (Dillwyn, 1817), SL 8.4 mm (ZRC.MOL.23491); C, *Crenavolva leopardus* Fehse, 2002, SL 7.0 mm (ZRC.MOL.19130); D, *Cuspivolva bellica* (C. N. Cate, 1973), SL 6.8 mm (ZRC.MOL.22571); E, *Pellasimnia improcera* (Azuma & C. N. Cate, 1971), SL 11.9 mm (ZRC.MOL.19129); F, *Phenacovolva* cf. *brevirostris* (Schumacher, 1817), SL 12.4 mm (ZRC.MOL.19127); G, *Phenacovolva dancei* C. N. Cate, 1973, SL 16.1 mm (ZRC.MOL.19128); H, *Cheilea imbricata* (Fischer von Waldheim, 1807), SL 10.5 mm (ZRC.MOL.21291).

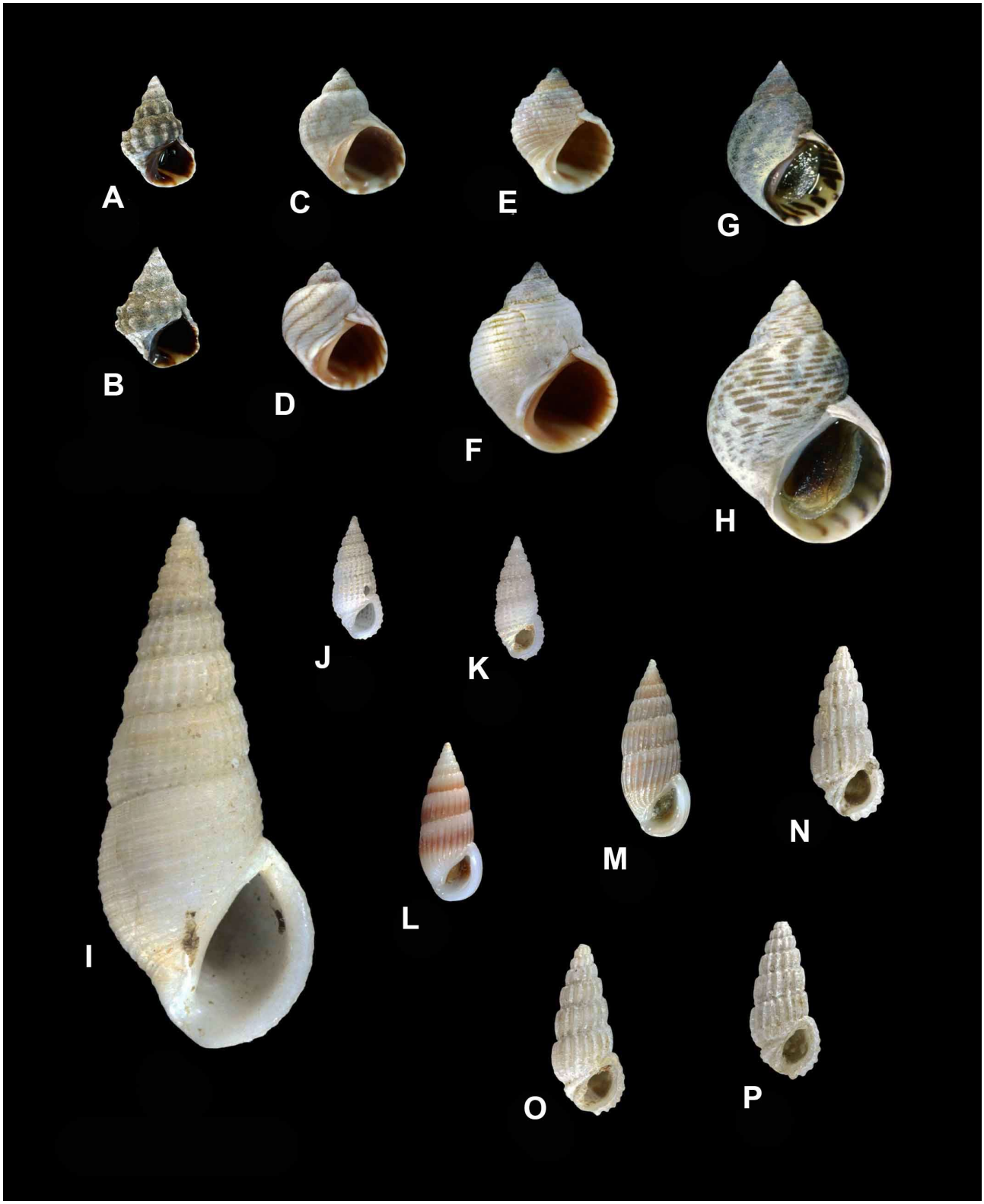

Fig. 39. Littorinidae (A–H) and Rissoinidae (I–P) from Pulau Satumu. A, B, *Echinolittorina malaccana* (Philippi, 1847), SL 7.3 mm (A), SL 7.7 mm (B) (ZRC.MOL.21618); C, D, *Echinolittorina melanacme* (E. A. Smith, 1876), SL 7.9 mm (C), SL 7.9 mm (D) (ZRC.MOL.22555); E, F, *Echinolittorina vidua* (Gould, 1859), SL 7.8 mm (E), SL 11.8 mm (F) (ZRC.MOL.22556); G, H, *Littoraria articulata* (Philippi, 1846), SL 10.5 mm (G), SL 16.3 mm (H) (ZRC.MOL.22605); I, *Moerchiella striata* (Quoy & Gaimard, 1833), SL 19.7 mm (ZRC.MOL.22937); J, K, *Phosinella media* (Schwartz von Mohrenstern, 1860), SL 4.6 mm (J) (ZRC.MOL.24079), SL 4.6 mm (K) (ZRC.MOL.25009); L, M, *Rissoina ambigua* (Gould, 1849), SL 5.8 mm (L), SL 6.4 mm (M) (ZRC.MOL.22616); N–P, *Rissoina* cf. *obeliscus* Recluz in Schwartz von Mohrenstern, 1860, SL 6.5 mm (N), SL 6.2 mm (O), SL 6.2 mm (P) (ZRC.MOL.25010).

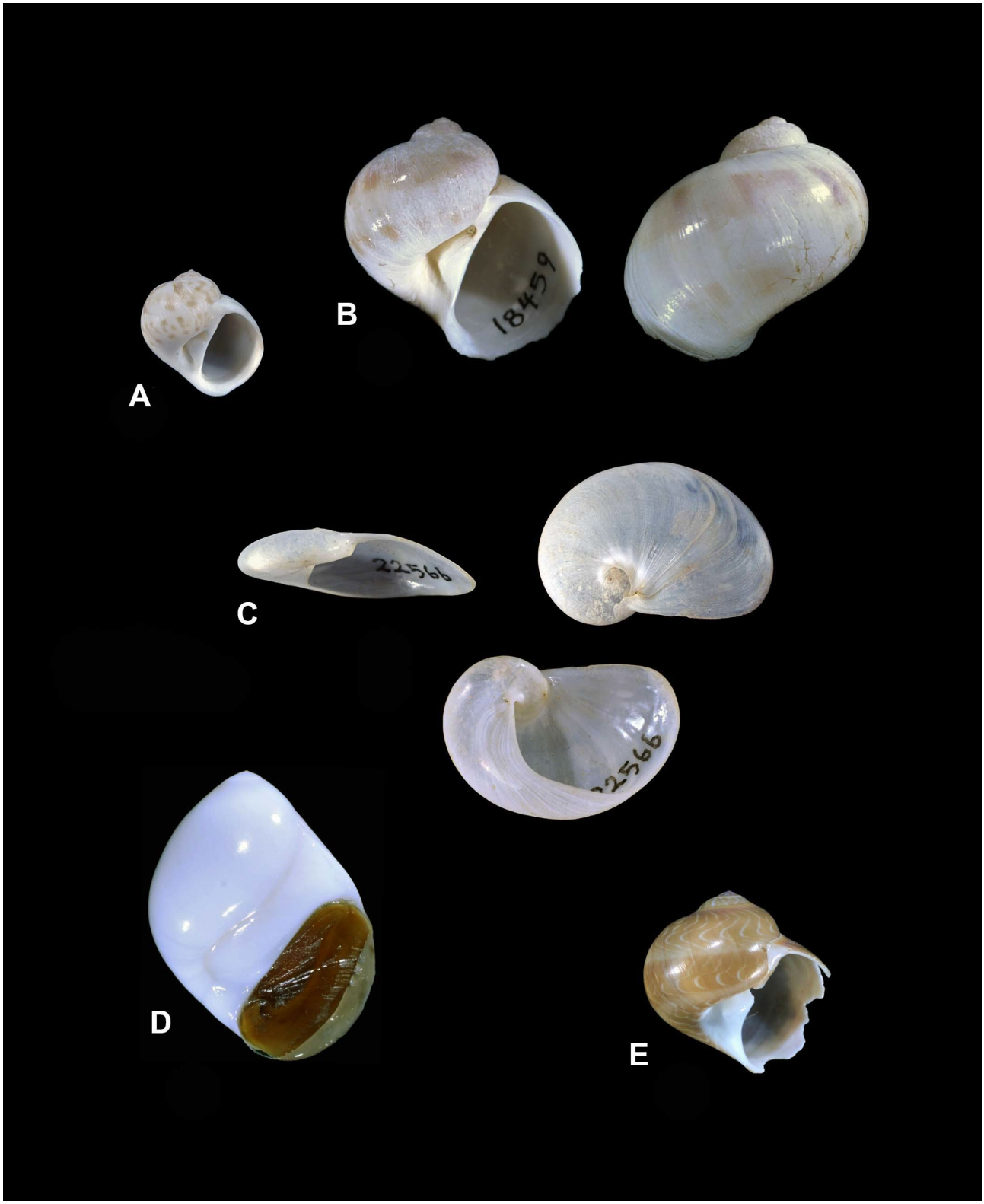

Fig. 40. Naticidae from Pulau Satumu. A, *Naticarius hainanensis* (X. X. Liu, 1977), SL 11.3 mm (ZRC.MOL.22612); B, *Naticarius zonalis* (Récluz, 1850), SL 22.7 MM (ZRC.MOL.18459); C, *Sinum haliotoideum* (Linnaeus, 1758), SL 21.9 mm (ZRC.MOL.22566); D, *Polinices mammilla* (Linnaeus, 1758), SL 26.7 mm (ZRC.MOL.16550); E, *Tanea areolata* (Récluz, 1844), SL 17.1 mm (ZRC.MOL.21775).

Fig. 41. Strombidae (A, B) and Cymatiidae (C) from Pulau Satumu. A, *Lambis lambis* (Linnaeus, 1758), SL 151.0 mm (ZRC.MOL.20917); B, *Canarium urceus* (Linnaeus, 1758), SL 32.8 mm (ZRC.MOL.22255); C, *Gyrineum natator* (Röding, 1798), SL 32.5 mm (ZRC.MOL.20892).

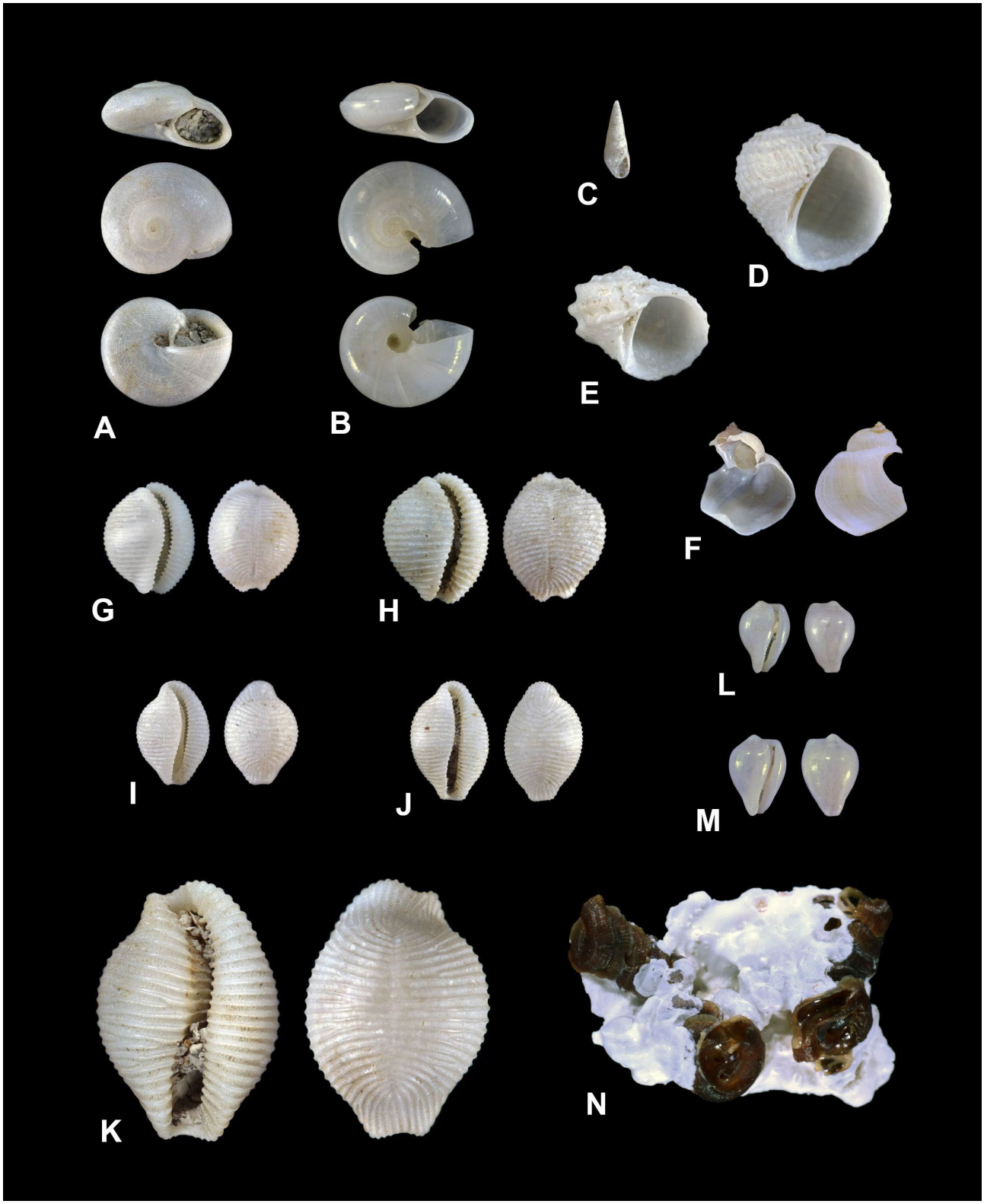

Fig. 42. Vitrinellidae (A, B), Eulimidae (C), Vanikoridae (D–F), Eratoidae (L, M), Triviidae (G–K) and Vermetidae (N) from Pulau Satumu. A, *Vitrinella lenticula* (Gould, 1861), SL 5.8 mm (ZRC.MOL.19114); B, *Vitrinella* sp., SL 6.0 mm (ZRC.MOL.24082); C, *Melanella* sp., SL 3.4 mm (ZRC.MOL.19196); D, *Vanikoro cancellata* (Lamarck, 1822), SL 7.2 mm (ZRC.MOL.19191); E, *Vanikoro fenestrata* (A. Adams, 1863), SL 5.1 mm (ZRC.MOL.19192); F, undetermined vanikorid sp., SL 5.3 mm (ZRC.MOL.19119); G, H, *Cleotrivia globosa* (J.E. Gray in G. B. Sowerby I, 1832), SL 5.2 mm (H), SL 6.1 mm (I) (ZRC.MOL.19120); I, *Trivirostra edgari* (Shaw, 1909), SL 4.8 mm (ZRC.MOL.25024); J, *Trivirostra pellucidula* (Reeve, 1846), SL 5.6 mm (ZRC.MOL.19121); K, *Trivirostra oryza* (Lamarck, 1810), SL 11.8 mm (ZRC.MOL.18516); L, M, *Alaerato angistoma* (G. B. Sowerby I, 1832), SL 3.8 mm (F), SL 3.3 mm (G) (ZRC.MOL.19123); N, *Dendropoma* sp., tube diameter ca. 1.5 mm (ZRC.MOL.25003).

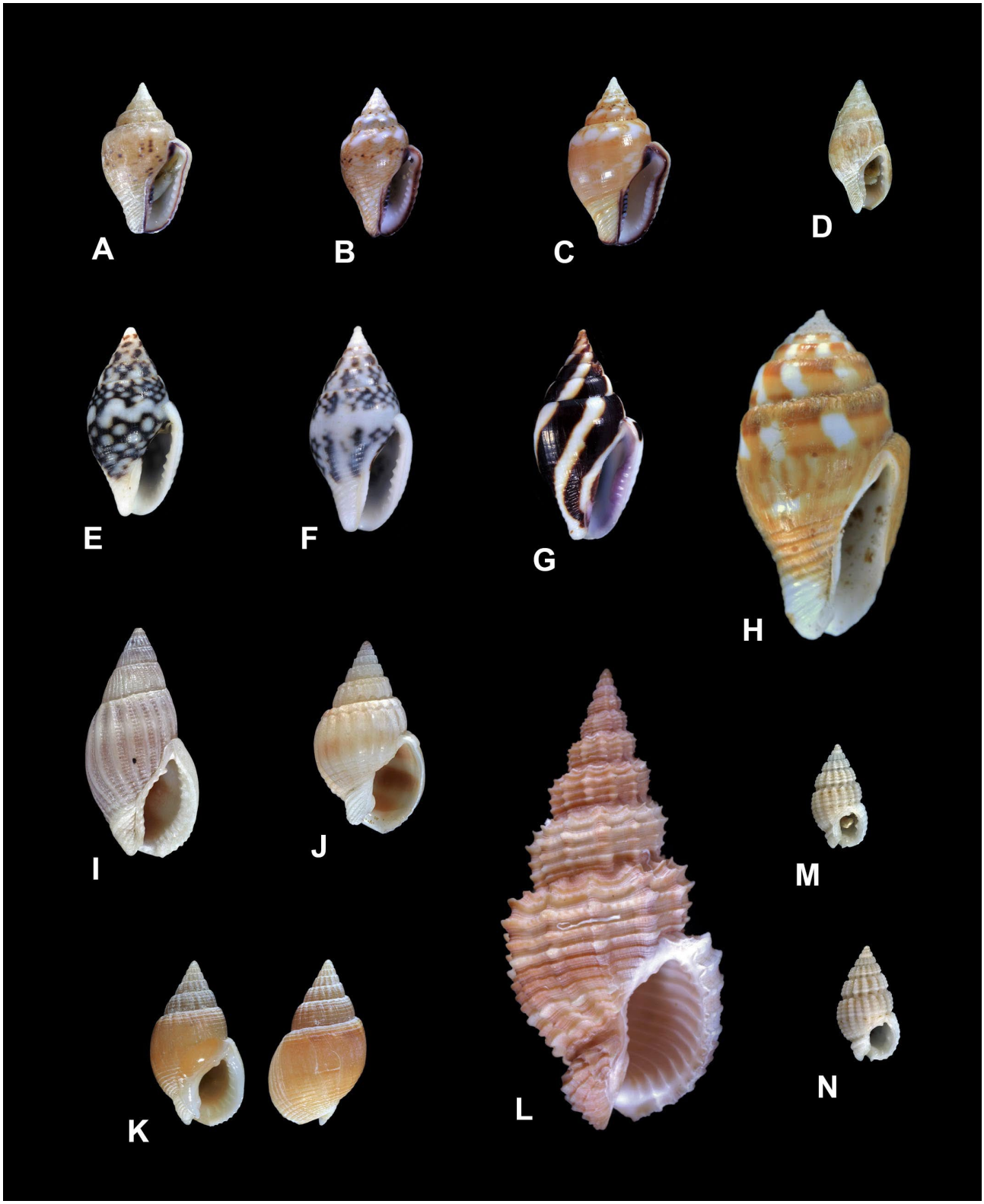

Fig. 43. Columbellidae (A–H) and Nassariidae (I–N) from Pulau Satumu. A–C, *Euplica scripta* (Lamarck, 1822), SL 11.0 mm (A) (ZRC.MOL.200889), SL 10.6 mm (B), SL 12.7 mm (C) (ZRC.MOL.22598); D, *Mitrella moleculina* (Duclos, 1840), SL 9.5 mm (ZRC.MOL.17052); E, F, *Pardalinops testudinaria* (Link, 1807), SL 14.2 mm (E), SL 15.4 mm (F) (ZRC.MOL.22599); G, *Pictocolumbella ocellata* (Link, 1807), SL 15.6 mm (ZRC.MOL.22600); H, *Pyrene splendidula* (G. B. Sowerby I, 1844), SL 24.7 mm (ZRC.MOL.22420); I, *Nassarius foveolatus* (Dunker, 1847), SL 17.1 mm (ZRC.MOL.22565); J, *Nassarius nodiferus* (Powys in G. B. Sowerby I & Powys, 1835), SL 14.2 mm (ZRC.MOL.18410); K, *Nassarius* cf. *reeveanus* (Dunker, 1847), SL 12.1 mm (ZRC.MOL.24996); L, *Phos senticosus* (Linnaeus, 1758), SL 34.2 mm (ZRC.MOL.10413); M, N, *Reticunassa* cf. *thailandensis* Galindo et al., 2017, SL 7.6 (M), SL 8.6 mm (N) (ZRC.MOL.22613).

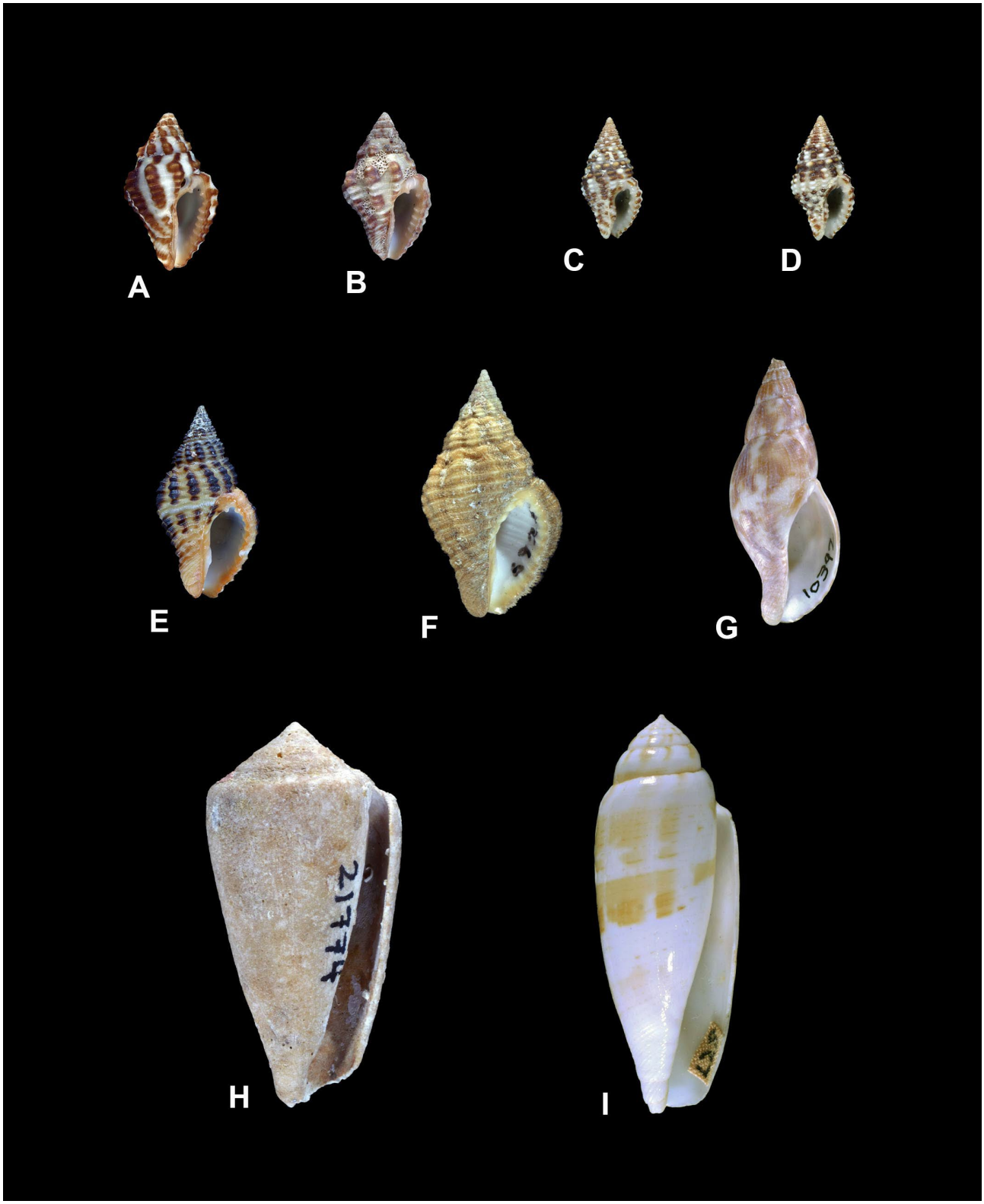

Fig. 44. Pisaniidae (A–G) and Conidae (H, I) from Pulau Satumu. A, B, *Engina alveolata* (Kiener, 1836), SL 18.1 mm (C) (ZRC.MOL.24077), SL 16.8 mm (D) (ZRC.MOL.25028); C, D, *Engina armillata* (Reeve, 1846), SL 10. 5 mm (A), SL 11.1 mm (B) (ZRC.MOL.10401); E, F, *Pollia fumosa* (Dillwyn, 1817), SL 22.4 mm (E) (ZRC.MOL.20913), SL 28.7 mm (F) (ZRC.MOL.6920); G, *Pisania ignea* (Gmelin, 1791), SL 31.0 mm (ZRC.MOL.10392); H, *Conus consors* G. B. Sowerby I, 1833, SL 44.5 mm (ZRC.MOL.21774); I, *Conus viola* Cernohorsky, 1977, SL 46.2 mm (ZRC.MOL.14514).

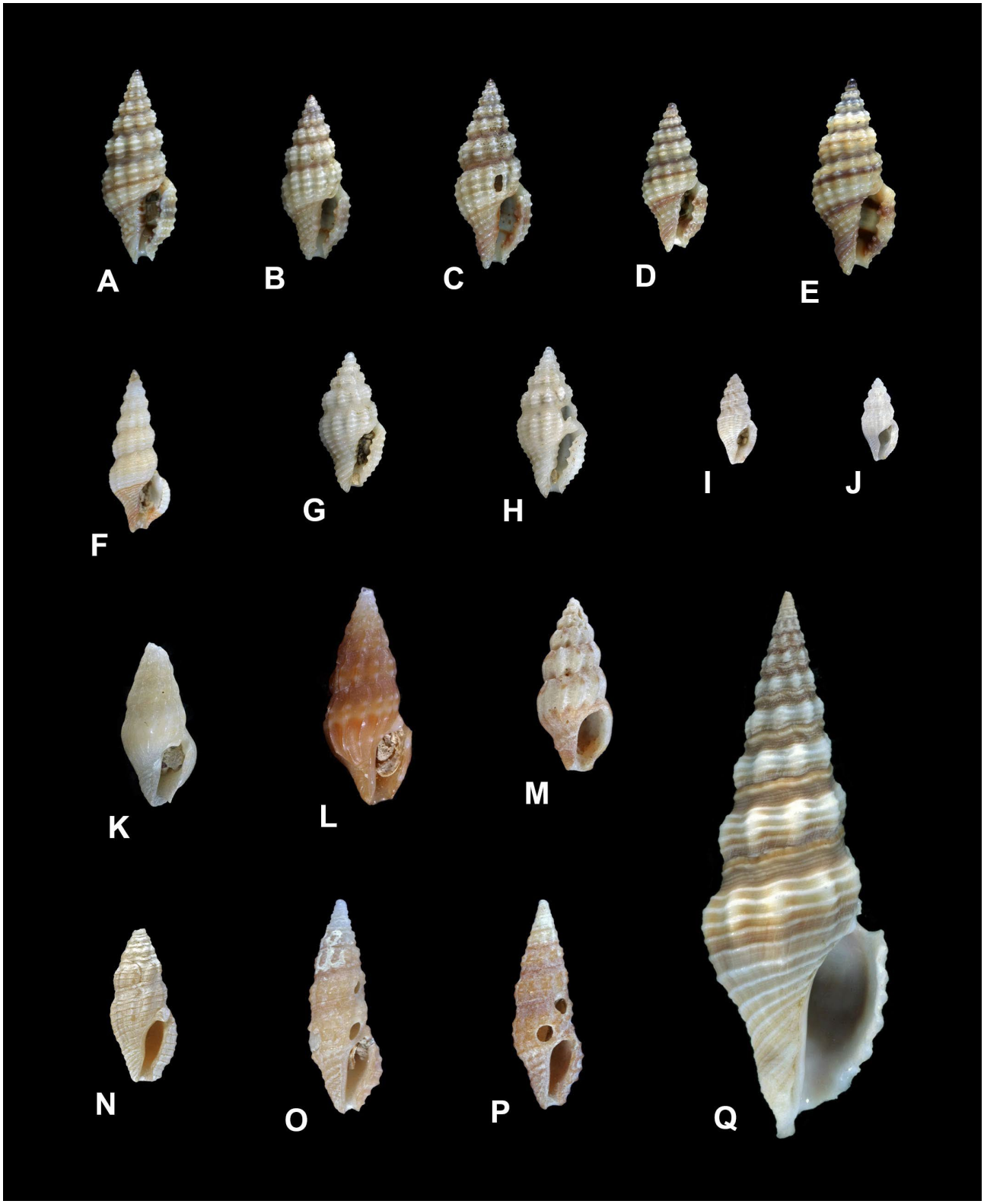

Fig. 45. Clathurellidae (A–J), Drilliidae (K, L), Horaiclavidae (M) and Pseudomelatomidae (N–Q) from Pulau Satumu. A–C, *Lienardia mighelsi* Iredale & Tomlin, 1917, SL 9.1 mm (A), SL 7.8 mm (B), SL 8.8 mm (C) (ZRC.MOL.19139); D, E, *Lienardia* cf. *nigrotincta* (Montrouzier, 1872), SL 6.8 mm (D), SL 9.1 mm (E) (ZRC.MOL.19134); F, *Etrema* sp., SL 7.5 mm (ZRC.MOL.19153); G, H, *Lienardia* cf. *vultuosa* (Reeve, 1845), SL 6.5 mm (G), SL 6.9 mm (H) (ZRC.MOL.25018); I, J, undetermined clathurellid sp., SL 4.1 mm (I) (ZRC.MOL.19149), SL 3.8 mm (J) (ZRC.MOL.24075); K, L, *Clavus* sp., SL 7.6 mm (K) (ZRC.MOL.19143); SL 10.2 mm (L) (ZRC.MOL.24601); M, *Graciliclava costata* (Hedley, 1922), SL 8.0 mm (ZRC.MOL.19137); N, *Otitoma* cf. *crassivaricosa* Morassi et al., 2017, SL 7.1 mm (ZRC.MOL.22575); O, P, *Otitoma* aff. *timorensis* (Schepman, 1913), SL 9.9 mm (ZRC.MOL.19152), SL 9.6 mm (ZRC.MOL.19154); Q, *Ptychobela nodulosa* (Gmelin, 1791), SL 35.8 mm (ZRC.MOL.22574).

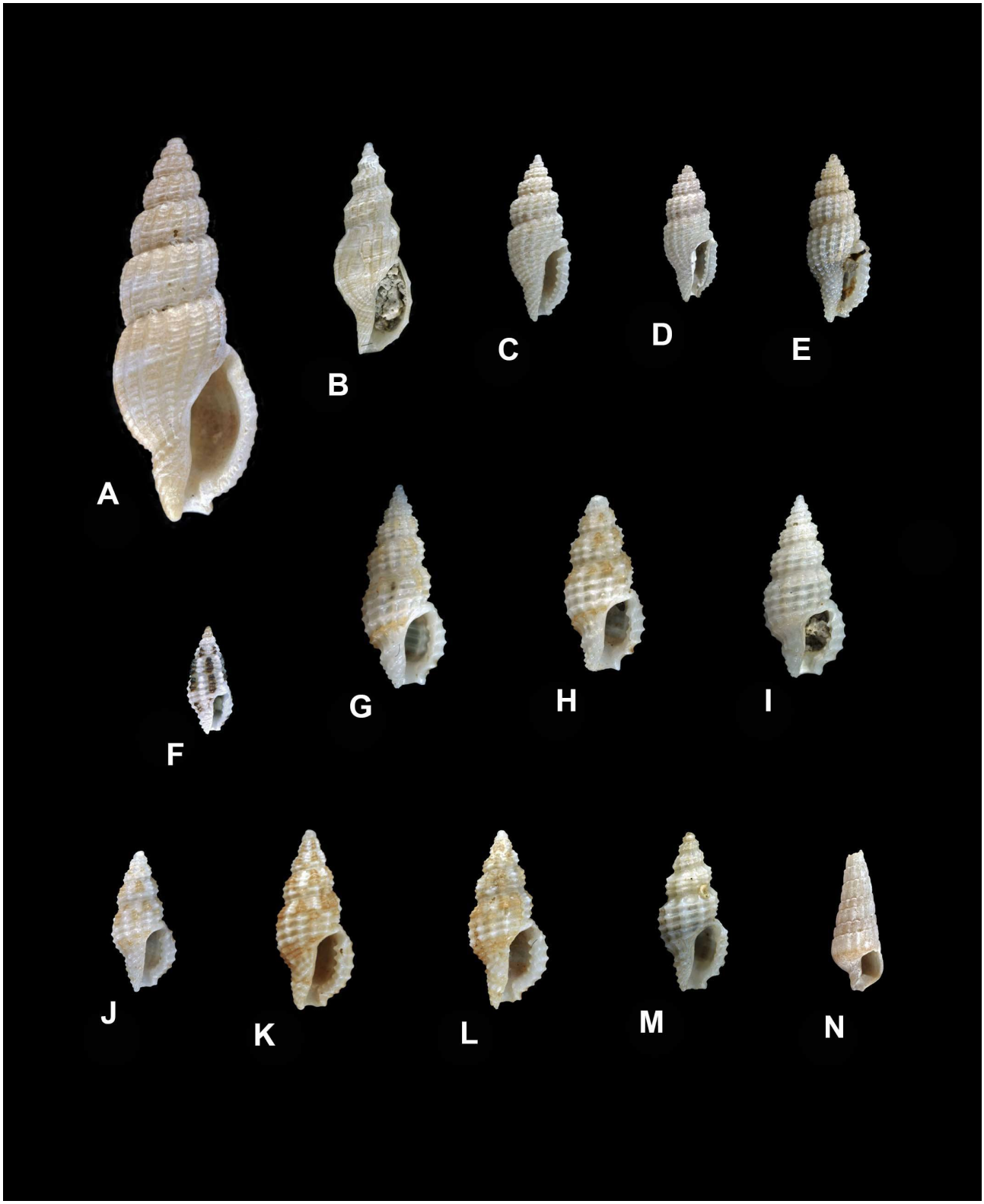

Fig. 46. Raphitomidae (A–M) and Terebridae (N) from Pulau Satumu. A, *Daphnella* sp., SL 14.2 mm (ZRC.MOL.19151); B, *Eucyclotoma* aff. *hindsii* (Reeve, 1843), SL 7.8 mm (ZRC.MOL.19146); C–E, *Kermia cylindrica* (Pease, 1860), SL 6.3 mm (C), SL 5.1 mm (D) (ZRC.MOL.19138), SL 6.2 mm (E) (ZRC.MOL.25021); F, *Pseudodaphnella barnardi* (Brazier, 1876), SL 3.8 mm (ZRC.MOL.24078); G, H, *Pseudodaphnella fallax* Fedosov & Puillandre, 2012, SL 7.5 mm, SL 6.5 mm (ZRC.MOL.19135); I, *Pseudodaphnella* cf. *fallax* Fedosov & Puillandre, 2012, SL 6.6 mm (ZRC.MOL.19156); J–L, *Pseudodaphnella hadfieldi* (Melvill & Standen, 1895), SL 5.3 mm, SL 6.7 mm, SL 6.9 mm (ZRC.MOL.25022); M, *Pseudodaphnella* cf. *oligoina* Hedley, 1922, SL 5.8 mm (ZRC.MOL.25023); N, *Duplicaria* sp., SL 5.3 mm (ZRC.MOL.24080).

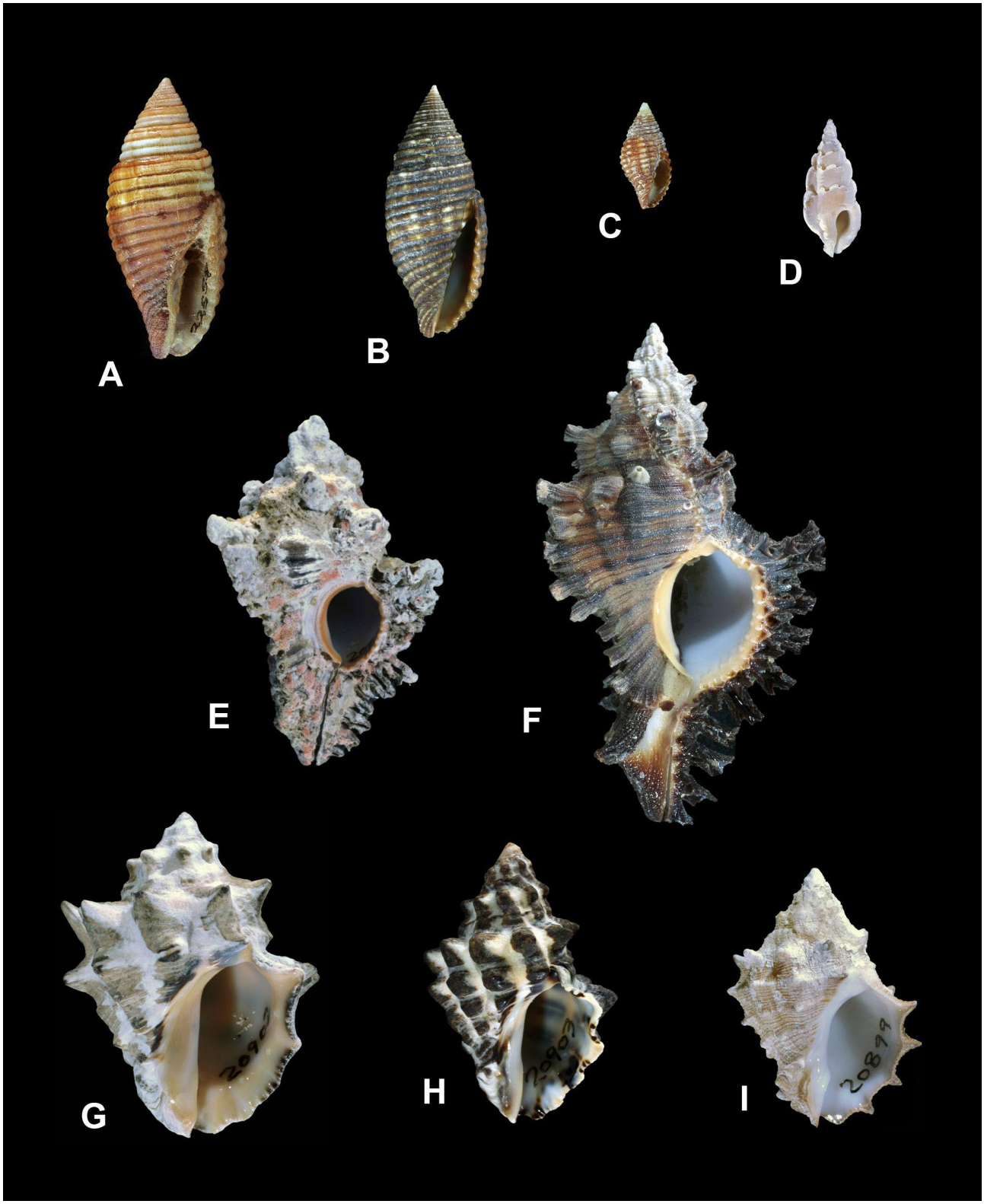

Fig. 47. Mitridae (A–C) and Muricidae (D–F) from Pulau Satumu. A, *Strigatella aurantia* (Gmelin, 1791), SL 34.6 mm (ZRC.MOL.22557); B, *Pseudonebularia proscissa* (Reeve, 1844), SL 30.7 mm (ZRC.MOL.22608); C, *Pseudonebularia fraga* (Quoy & Gaimard, 1833), SL 12.0 mm (ZRC.MOL.22393); D, *Aspella platylaevis* Radwin & D'Attilio, 1976, SL 15.4 mm (ZRC.MOL.22609); E, *Chicoreus brunneus* (Link, 1807), SL 43.2 mm (ZRC.MOL.20896); F, *Chicoreus torrefactus* (G. B. Sowerby II, 1841), SL 61.7 mm (ZRC.MOL.17156); G, *Reishia bitubercularis* (Lamarck, 1822), SL 41.3 mm (ZRC.MOL.20902); H, *Reishia clavigera* (Küster, 1860), SL 34.3 mm (ZRC.MOL.20903); I, *Mancinella echinata* (Blainville, 1832), SL 31.3 mm (ZRC.MOL.20899).

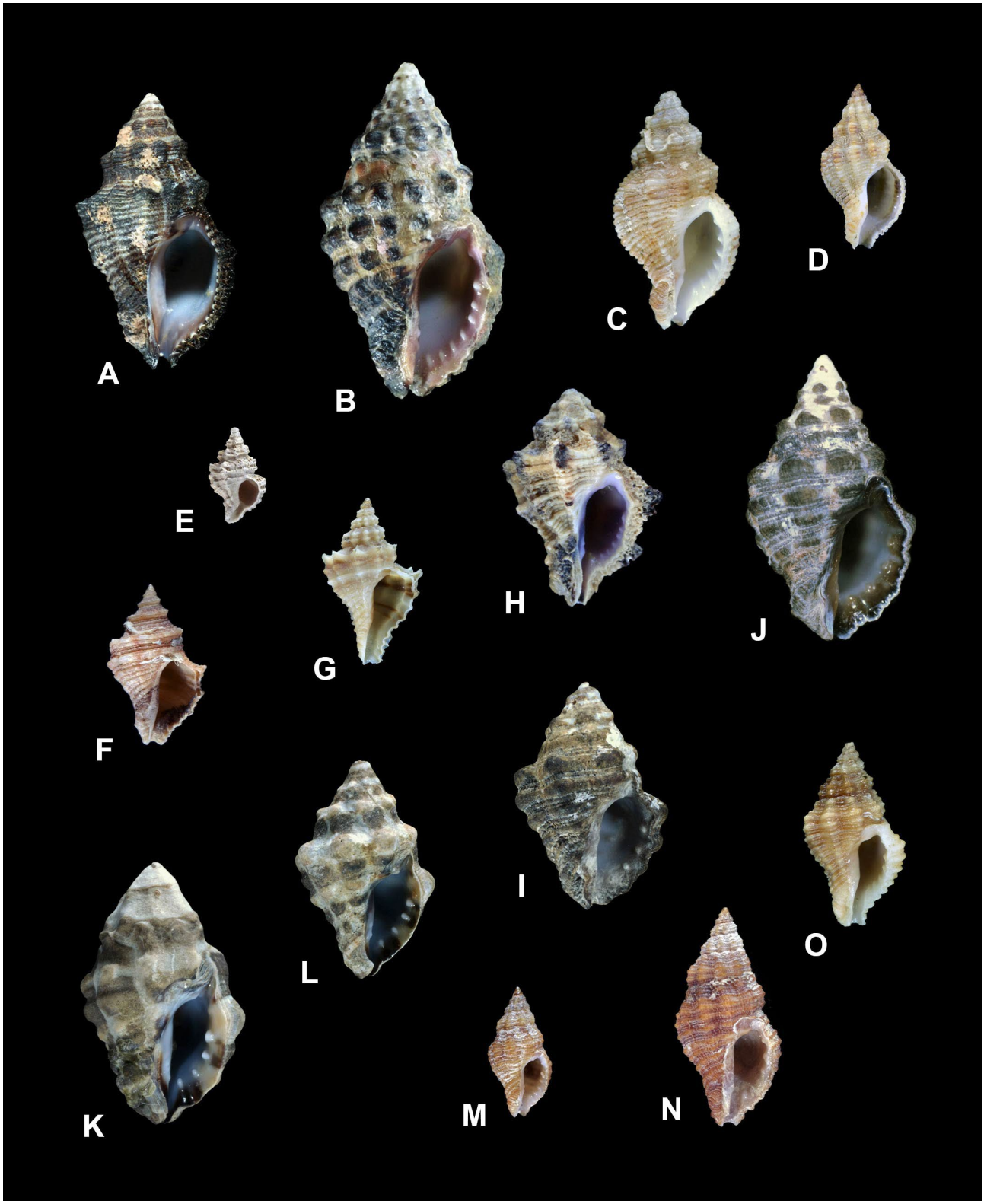

Fig. 48. Muricidae from Pulau Satumu. A, *Drupella margariticola* (Broderip in Broderip & G. B. Sowerby I, 1833), SL 25.5 mm (ZRC.MOL.17145); B, *Drupella rugosa* (Born, 1778), SL 31.3 mm (ZRC.MOL.20898); C, D, *Ergalatax contracta* (Reeve, 1846), SL 17.7 mm (C) (ZRC.MOL.18520), SL 12.2 mm (D) (ZRC.MOL.19228); E, *Favartia* sp., SL 5.7 mm (ZRC.MOL.19233); F, *Indothais javanica* (Philippi, 1848), SL 12.0 mm (ZRC.MOL.19227); G, *Lataxiena fimbriata* (Hinds, 1844), SL 12.3 mm (ZRC.MOL.19879); H, *Murichorda fiscellum* (Gmelin, 1791), SL 16.5 mm (ZRC.MOL.16673); I, *Murichorda rumphiusi* (Houart, 1996), SL 16.9 mm (ZRC.MOL.22610); J, *Semiricinula muricoides* (Blainville, 1832), SL 26.5 mm (ZRC.MOL.22224); K, L, *Tenguella musiva* (Kiener, 1835), SL 24.1 mm (K), SL 16.5 mm (ZRC.MOL.20904); M, N, *Orania serotina* (A. Adams, 1853), SL 9.5 mm (M) (ZRC.MOL.19231), SL 16.6 mm (N) (ZRC.MOL.19881); O, *Orania* cf. *pachyraphe* (E. A. Smith, 1879), SL 13.4 mm (ZRC.MOL.19880).

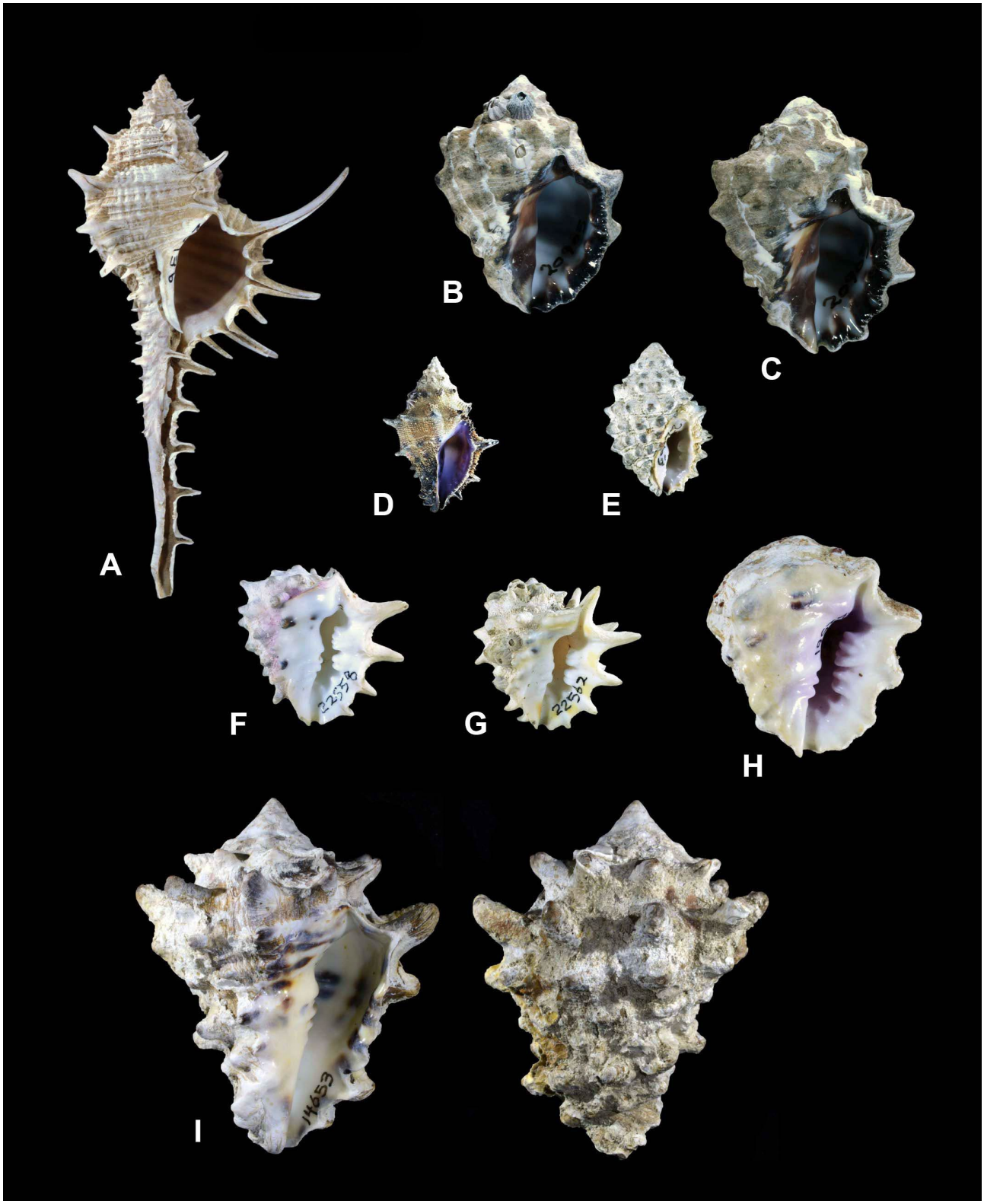

Fig. 49. Muricidae (A–H) and Turbinellidae (I) from Pulau Satumu. A, *Murex trapa* Röding, 1798, SL 80.8 mm (ZRC.MOL.20136); B, C, *Tylothais virgata* (Dillwyn, 1817), SL 37.4 mm (B), SL 39.4 mm (ZRC.MOL.20905); D, *Morula spinosa* (H. Adams & A. Adams, 1853), SL 22.9 mm (ZRC.MOL.22314); E, *Morula uva* (Röding, 1798), SL 24.0 mm (ZRC.MOL.22563); F, *Drupa albolabris* (Blainville, 1832), SL 24.2 mm (ZRC.MOL.22558); G, *Drupa ricinus* (Linnaeus, 1758), SL 23.6 mm (ZRC.MOL.22562); H, *Drupa morum* Röding, 1798, SL 35.1 mm (ZRC.MOL.22561); I, *Vasum turbinellus* (Linnaeus, 1758), SL 55.3 mm (ZRC.MOL.14653).

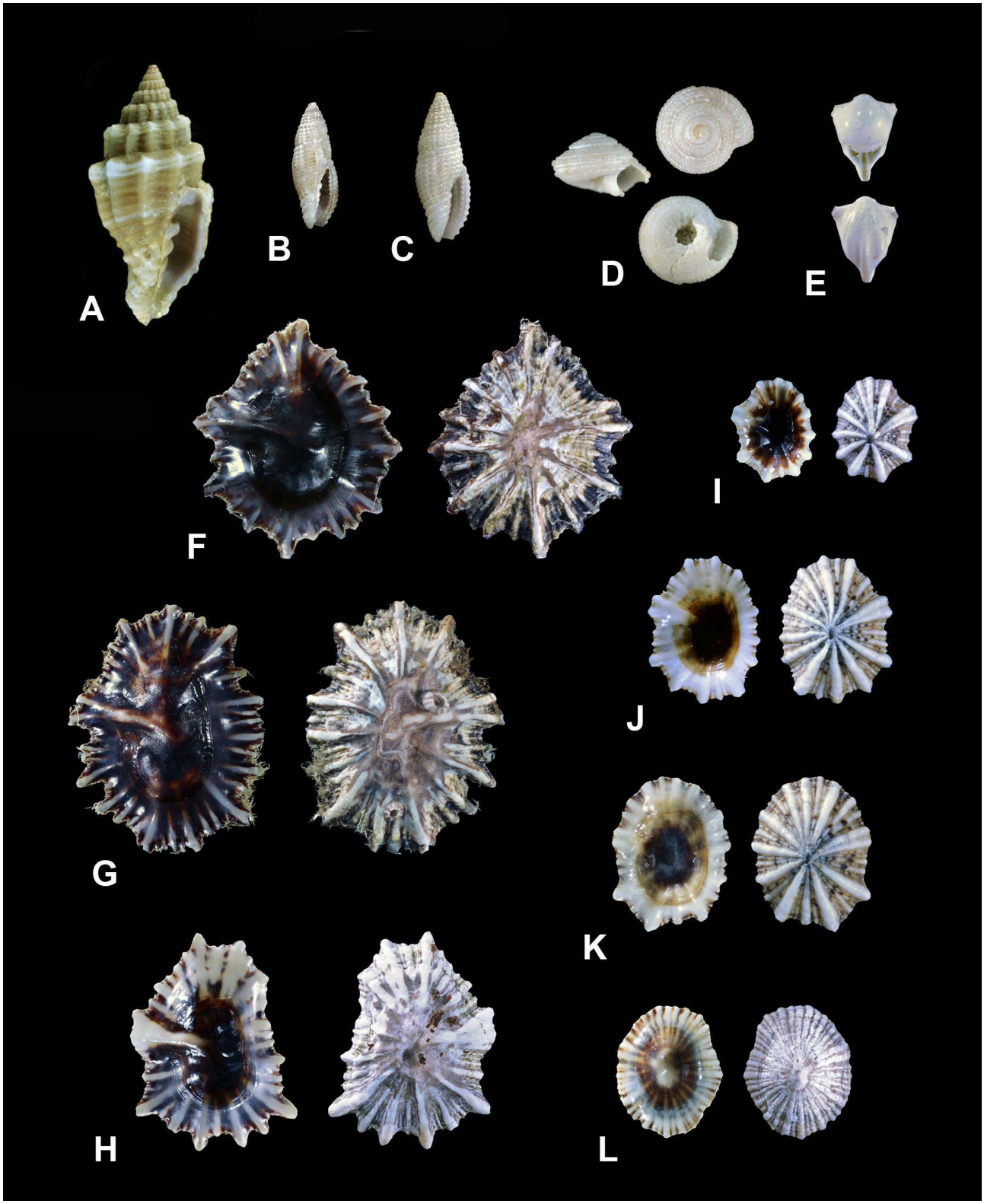

Fig. 50. Costellariidae (A–C), Architectonicidae (D), Cavoliniidae (E) and Siphonariidae (F–L) from Pulau Satumu. A, *Vexillum mutabile* (Reeve, 1845), SL 16.1 mm (ZRC.MOL.14529); B, *Thala exilis* (Reeve, 1845), SL 6.7 mm (ZRC.MOL.22549); C, *Thala* cf. *exilis* (Reeve, 1845), SL 7.9 mm (ZRC.MOL.22549); D, *Heliacus cerdaleus* (Melvill & Standen, 1903), SL 4.5 mm (ZRC.MOL.18443); E, *Diacavolinia* cf. *longirostris* (Blainville, 1821), SL 4.7 mm (ZRC.MOL.19122); F–H, *Siphonaria atra* Quoy & Gaimard, 1833, SL 27.7 mm (F), SL 28.5 mm (G), SL 25.0 mm (H) (ZRC.MOL.25001); I–K, *Siphonaria laciniosa* (Linnaeus, 1758), SL 12.0 mm (I), SL 16.5 mm (J), SL 17.2 mm (K) (ZRC.MOL.25002); L, *Siphonaria* cf. *normalis* Gould, 1846, SL 15.2 mm (ZRC.MOL.25014).

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