MUSEUM HANDBOOKS.

CATALOGUE
OF
THE HADFIELD COLLECTION OF SHELLS
FROM THE
LOYALTY ISLANDS.

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THE MANCHESTER MUSEUM, OWENS COLLEGE

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THE HADFIELD COLLECTION

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FROM

LIFU AND UVEA, LOYALTY ISLANDS,

BY

JAMES COSMO MEIVILL, M.A., F.I.S.,

AND

ROBERT STANDEN.

MANCHESTER: J. E. CORNISH.

1895.
INTRODUCTION.

During the past few years large collections of the shells of Lifu and Uvea have been made by the Rev. James and Mrs. Hadfield, and have been consigned to several Manchester conchologists. By the kindness of Messrs. R. D. Darbishire, R. Cairns, and W. Moss, a very complete series of these shells has been presented to the Manchester Museum, which possesses in addition the types of the majority of the new species here described, though a few remain in Mr. Melvill's cabinet. They have been arranged for exhibition, and a list of them, with notes and descriptions of new species, was drawn up by Mr. J. Cosmo Melvill (a member of the Committee of the Manchester Museum) and Mr. R. Standen (of the Museum staff). As the collection is one of the largest and most important that has been received in this country from the Loyalty Islands, it has been thought desirable to afford the naturalists of Manchester and elsewhere an opportunity of obtaining separate copies of this catalogue, and it has therefore been reprinted from 'The Journal of Conchology' and issued as one of the Museum Handbooks.

WILLIAM E. HOYLE,
Keeper of the Museum.
NOTES ON A COLLECTION OF SHELLS FROM LIFU AND UVEA, LOYALTY ISLANDS, FORMED BY THE REV. JAMES AND MRS. HADFIELD, WITH LIST OF SPECIES.

By JAMES COSMO MELVILL, M.A., F.L.S., AND ROBERT STANDE.

(Read before the Conchological Society, June 9th, 1894).

The Loyalty Islands, of which the three principal are Lifu, Maré, and Uvea, form part of the New Caledonian Archipelago, and are situate east of the main isle, with its capital Noumea, being placed long. 168° E. lat. 22° S. They are not, therefore, very far within the tropic of Capricorn.

Belonging to France, it is not surprising that several eminent naturalists of that nation have made an especial study of the fauna of this group. Accordingly we find, mainly in the pages of the 'Journal de Conchyliologie,' numerous papers on both the Terrestrial and Marine Mollusca, mostly from the pens of MM. Crosse, P. Fischer, Souverbie, Gassies, and three resident conchologists of note—Lambert, Marie, and Montrouzier. Mr. John Brazier* has likewise described a few new forms from this region, and we must not omit the name of Mr. Edgar L. Layard, C.M.G., for many years British Consul in New Caledonia, who here, as elsewhere, made large collections.

The period of most active research in this quarter, so far as the mollusca are concerned, would appear to have been the decade 1865-75, but several novelties have been described since that later date.

We cannot find, however, that any catalogue of the whole Marine Molluscan Fauna of the Loyalty Island group has been


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published, and, as a step towards this desired end, we venture to offer the following list of over 600 species, about twenty or twenty-one of which are considered new, this list being based upon a very beautiful and interesting collection, rich in individuals as well as number of species, formed by the Rev. James and Mrs. Hadfield, of Lifu, and coming mostly from that island, with some also from the neighbouring island of Uvea. They were collected during 1891-3.

Many of them, it is true, are beach shells, and a little worn, but their colours are so untarnished, and condition so perfect as to preclude their being considered as otherwise than in good condition. The small number of Pelecypoda is remarkable; the bulk of the shells collected are marine Gastropoda, and we may signalize Conus, Mitra, Cypraea, and Columbella especially as being very numerous, both in individuals and species. We have also included amongst these the terrestrial and fluviatile mollusca, collected by Mr. and Mrs. Hadfield.

It is nothing new to be able to pronounce these islands as being as rich, almost, in marine Mollusca as the famous Philippine Islands, or Mauritius, for MM. Crosse and Fischer give forty-five species of Mitra and fifty species of Conus, for instance, as being found within the New Caledonian region. Many of these are of very wide distribution, and it is curious to observe how large a number of the forms found in Mauritius are here also, some 3,000 miles or more to the eastward, although it forms part of the same vast sub-division, the Indo-Pacific Province. The late M. Paul Fischer, however, considers the Australo-Polynesian region, in which he places these islands, distinct from the Indo-Pacific Province of Woodward. These sub-divisions, however, must necessarily be somewhat arbitrary, and their lines of demarcation optional. The fact remains, that in the Marine Mollusca, at all events, there is a close connection between the Mauritian and the New Caledonian Fauna.

We had, at first, in mind the possibility of a general
catalogue brought up to date of all the species hitherto reported from this group; but, upon reflection, we think it best merely to include those species received from time to time from Mr. Hadfield. Our especial thanks are due to Mr. William Moss, Mr. R. Cairns, and Dr. G. W. Chaster. To Mr. Moss, for photographing for us some of the new species in a very clear and accurate manner, and for allowing us to inspect, on several occasions, the large stores he received from Mr. Hadfield. To Mr. Cairns for having aided Mr. Moss in the separation and arrangement of so large a mass of material and for having permitted the selection by us of what might be of interest for this catalogue; and to Dr. G.W. Chaster also for some beautiful photographs of the new species, reproduced herewith by the collotype process. This aid has been to us invaluable. To Mr. Edgar A. Smith, F.Z.S., of the Natural History Museum, South Kensington, and to Mr. Ernest Ruthven Sykes, F.Z.S., we must also offer our best acknowledgments, for their ready help in discriminating some of the more critical species, and advice on the subject of the new forms; and to Mr. John Ray Hardy, of the Manchester Museum, Owens College, we are also indebted for much valuable assistance in the arrangement of the collection generally.

LIST OF SPECIES.

CLASS CEPHALOPODA.

ORDER DIBRANCHIATA.

FAMILY SPIRULIDÆ.

Spirula Peroni Lam. — Several specimens of this pelagic species, mostly in a fragmentary condition.

ORDER TETRABRANCHIATA.

FAMILY NAUTILIDÆ.

Nautilus macromphalus Reeve.—A long suite of individuals ranging in size from very young ones, 22 mill. in diameter, to adult. Two very fine specimens came in spirit and contained the animal in good condition. In

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the umbilical cavities of each of these specimens are colonies of a small Cirripede, allied to *Lepas fascicularis* L.

**N. pompilius** Linné.—One adult specimen.

**Class GASTROPODA.**

**Order PULMONATA.**

**Family TESTACELLIDÆ.**

**Micromphalia Saisseti** Montr.—Several fine specimens.

**Rhytida inæqualis** Pfr.—Several.

**Diplomphalus lifuanus** Montr.—Plentiful and very fine.

**Family HELICIDÆ.**

**Helix aspersa** Müller.—A large number of this species were received, mostly differing but slightly from European examples, but several are almost black in colour. Of course the species has been introduced, and Mr. E. L. Layard gives a graphic description of his first finding it in the Island of Lifu in 1879, and subsequent tracing of the authors of its introduction, who were the officers of a French man-of-war (vide Wallis Kew, 'The Dispersal of Shells,' London, 1893).

**H. (Geotrochus) sinistrorsa** Deshayes—*Buliminus sinistrorsus* Pat.—A curious little shell, placed by Clessin in the sub-section *Pseudopartula* Pfr. Our specimens, of which there are a great number, have been identified as the above by Mr. E. L. Layard and others, but agree as nearly with *Buliminus theobaldianus* Gassies, as figured in Gassies' Faune Conch. Nouvelle-Calédonie, pt. 2 pl. iii., fig. 9.

**H. (Patula) costulifera** Pfr.—Several.

**H. (Patula) confinis** Gassies.—Several.

**Bulimus (Placostylus) Alexander** Crosse.—Several examples of this fine species.

**B. (Placostylus) Edwardsianus** Gassies.—Several.

**B. (Placostylus) fibratus** Martyn.—Several.

**B. (Placostylus) insignis** Petit.—Very abundant, most of the specimens minus epidermis.
B. (Placostylus) ouveanus Dotzauer.—Plentiful; from the island of Uvea.

**Family Pupidae.**

Buliminus (Rachis) Mageni Gass. = B. histrio Pfr.—A large number of pretty examples in great variety of colour and pattern of markings.

Vertigo pediculus Shuttl.—Several specimens.

**Family Stenogyridae.**

Stenogyra (Opeas) artensis Gassies.—Common.

S. (Opeas) Souverbianus Gassies.—Exceedingly abundant in all stages of growth.

**Family Succineidae.**

Succinea (Tapada) Montrouzieri Crosse = S. australis Gassies, non Fér.—Fairly plentiful.

**Family Auriculidae.**

Scarabus chalcostomus Adams.—Very abundant.

S. maurulus Gassies.—Many fine specimens.

Plecotrema Souverbiei Montrouzier.—One example.

P. labrella H. & A. Adams.—Likewise one specimen.

Melampus luteus Quoy.—A good many very fine specimens.

M. crassidens Gassies.—Several.

M. coffea Küst.—Not uncommon.

M. fasciatus Deshayes.—Common.

M. flavus Gmelin.—Several.

**Family Limnæidæ.**

Planorbis Montrouzieri Gassies.—Plentiful.

**Family Physidæ.**

Physa incisa Gassies.—Many fine specimens.

**Family Siphonariidæ.**

Siphonaria cochleariformis Reeve.—One specimen.

Siphonaria sp.—Several specimens too worn to identify, but allied to *S. diemenensis* Quoy.

**Order Opisthobranchiata.**

**Family Actaeonidæ.**

Actæon affinis A. Adams.—Several of this pretty species.

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A. (Buccinulus) solidulus Linné.—Plentiful, and in great variety.
A. (Buccinulus) nitidulus Lamarck.—Common.
A. (Buccinulus) alveolus Souverbie. — Several beautiful specimens.

**FAMILY** TORNATINIDÆ.

Tornatina voluta Quoy.—Several specimens.

**FAMILY** SCAPHANDRIDÆ.

Atys naucum Linné.—Two specimens.
A. debilis Pease.—Several.
A. solida Linné.—Several.

**FAMILY** BULLIDÆ.

Bulla ampulla Linné.—A considerable number of very small specimens.
B. nebulosa Gould.—Many prettily-marked specimens.

Haminea tenera A. Adams.—Three specimens.

Haminea Cairnsiana sp. nov. (Pl. II., fig. 1).

*H. testa alba, pellucida, cylindrica, striis transversim regularibus instructa, posticé truncata, lateribus rectis, labro quadratulo, apud basim producto.*

*Long. sp. majoris; 8-50 mill. Lat. 6 mill.*

*Hab. Lifu.*

Several specimens, but only a few full grown. A very delicate white shell, allied to *H. papyrus* and also *H. ambigu*a, both of A. Adams. It is cylindrical, transversely delicately striate, posteriorly truncate, sides straight, lip slightly quadrate, produced at the base. We received the specimens from Mr. Robert Cairns, of Ashton-under-Lyne, just as Mr. Hadfield had forwarded them to him in shell-sand, and are glad of the opportunity of connecting his name with this new form, in slight recognition of the services he has rendered us.

**FAMILY** RINGICULIDÆ.

Ringicula caledonica Morelet.—Several.
R. australis Hinds.—Many specimens, which we believe are referable to this species, but the genus is a difficult one,
abounding in synonymy and false species, and badly needing a competent monographer.

Order PROSOBRANCHIATA.

Family TEREBRIDÆ.

Terebra (Subula) casta Hinds.—Near T. hastata Menke. A pretty species. Several specimens.

T. (Subula) crenulata Linné.—Several fine specimens in various stages of growth.

T. (Subula) dimidiata Linné.—Several.

T. (Subula) duplicata Lamarck.—Three specimens.

T. (Subula) maculata Linné.—Very numerous in all stages of growth, several specimens being large and well marked.

T. (Subula) muscaria Linné.—Abundant and very fine.

T. (Abretia) affinis Gray.—A beautiful, but common form. Numerous examples.

T. (Abretia) cerithina Lamarck.—One full-grown specimen in good condition.

T. (Hastula) circumcincta Deshayes. —A conspicuous shell, spirally transverse-striated. Several specimens.

T. (Hastula) lanceata Lamarck.—A number of worn or fragmentary examples of this elegant species.

T. (Euterebra) Bernardi Deshayes.—An Australian form. One or two specimens.

T. (Euterebra) circinata Deshayes. —A few examples. Originally described from China.

T. (Euterebra) Mariesii Smith.—One specimen only, but exactly agreeing with the Japanese type; it has been referred to the describer of the species.

T. (Euterebra) straminea Gray.—Two specimens.

T. (Euterebra) tricolor Sowerby.—Several imperfect but characteristic specimens.

T. (Myurella) argus Hinds.—One fine example only.

T. (Myurella) cingulifera Lamarck.—A few worn shells.

T. (Myurella) myuros Lamarck.—Uncommon.

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T. (Myurella) nectarea sp. nov. (Pl. II., fig. 2).

_Test_ elongato-subulata, ad basim latiore, albida, parum nitida, supra suturas regulariter brunneo-maculata, anfractibus tridecim, transversim multi-sulcatis, longitudinaliter costatis, costis gemmulatis infra, juxta suturas, duabusque macularum ordinibus plus minusve decoratis, ultimo anfractu bicingulato apud medium atque ad basim, apertura ovata, labro exteriore simplice.


_Hab._, Lifu.

One specimen of this distinct and handsome shell was brought home by Mr. Hadfield in 1891-2. The longitudinal ribs beaded just below, and the double row of brown spots above the sutures, resemble no other species with which we are acquainted, excepting perhaps _T. tigrina_ Gmelin, a smooth shell with the same disposition of marking; it bears also some superficial likeness to _T. corrugata_ Lam., _T. histrio_ Desh., and others of the same section. But in form _T. interlineata_ Desh., from the Sandwich Isles, gives the closest approach to our species. This, we believe, is still unique in the Cumingian collection at South Kensington. In this shell, however, the whorls are divided by a broad transverse groove, and there is no sign of this in _T. nectarea_. Care must be taken not to confound imperfect specimens of _Vertagus Martinianus_ Pfr. with this shell.

T. (Myurella) nodularis Deshayes.—Not uncommon. Perhaps only a form of _T. textilis_ Hinds.

T. (Myurella) oculata Lamarck.—Several good specimens of this fine species.

T. (Myurella) subulata Linné.—Common.

T. (Myurella) textilis Hinds.—Common.

_Family Conidae._

_Conus imperialis_ Linné.—Several; one very fine.

_C. marmoreus_ Linné.—Numerous; mostly young specimens.

_C. pulicarius_ Bruguière.—Abundant; several very fine specimens with epidermis intact.
C. (Stephanoconus) baeticus Reeve.—Very plentiful; mostly wave-worn.

C. (Stephanoconus) balteatus Sowerby.—A few small specimens.

C. (Stephanoconus) lividus Bruguière.—Abundant, but few in good condition.

C. (Stephanoconus) plumbeus Reeve.—A few differing from the type in colour, which is brickdust red in the Lifu examples received.

C. (Puncticulis) arenatus Bruguière.—Great numbers of small-sized specimens, some with epidermis quite perfect.

C. (Puncticulis) miliaris Bruguière.—Several.

C. (Puncticulis) nanus Broderip.—Many small specimens.

C. (Coronaxis) fulgetrum Sowb.—Three good specimens.

C. (Coronaxis) hebraeus Linné.—Common.

C. (Coronaxis) minimus Linné.—Several.

C. (Coronaxis) musicus Bruguière.—Common.

C. (Coronaxis) sponsalis Chemnitz.—Several.

C. (Coronaxis) vermiculatus Lamarck.—Several.

C. (Nubecula) geographus Linné.—Many specimens in all stages of growth and fair condition, some large and well-marked.

C. (Nubecula) striatus Linné.—Numerous specimens in all stages, mostly worn.

C. (Nubecula) tulipa Linné.—Several small but pretty specimens, with a few of typical size.

C. (Dendroconus) figulinus Linné.—Several very large specimens.

C. (Dendroconus) quercinus Bruguière.—Three examples.

C. (Lithoconus) eburneus Bruguière.—Very abundant; small specimens of the form usually known as var, or sp. crassus Brug. occurring in hundreds.

C. (Lithoconus) litteratus Linné.—Some small specimens.
all var. *millepunctata* (*Conus millepunctatus* Lamarck)—by some conchologists still considered a good species.

C. *(Lithoconus)* *magus* Linné.—One specimen only, in poor condition, of this ubiquitous Eastern species.

C. *(Leptoconus)* *generalis* Linné.—A few somewhat worn examples.

C. *(Rhizoconus)* *cinctus* Sowerby.

C. *(Rhizoconus)* *lineatus* Chemnitz.

C. *(Rhizoconus)* *lithoglyphus* Reeve = *ermineus* Dillw.

C. *(Rhizoconus)* *miles* Linné.

C. *(Rhizoconus)* *planorbis* Born.

C. *(Rhizoconus)* *tahitensis* Bruguère.

C. *(Rhizoconus)* *vexillum* Reeve.—A large number of each of the above species, of ordinary character and in poor or immature condition generally.

C. *(Rhizoconus)* *sulphuratus* Bruguère.—One good specimen. We think this is a species distinct from *C. mustelinus* Brug. with which it is usually joined.

C. *(Chelyconus)* *catus* Bruguère.—Abundant.

C. *(Chelyconus)* *monachus* Linné.—Several.

C. *(Chelyconus)* *pertusus* Bruguère.—One fine richly-coloured specimen.

C. *(Cylinder)* *canonicus* Bruguère.—Two specimens.

C. *(Cylinder)* *textile* Linné.—Several rather poor examples.

C. *(Hermes)* *atramentosus* Reeve.—Four specimens.

C. *(Hermes)* *glans* Bruguère.—Several good examples.

C. *(Hermes)* *nussatella* Linné.—A few small shells in poor condition.

C. *(Hermes)* *tenuistriatus* Sowerby.—One specimen only.

Pleurotoma (*Turris*) *abbreviata* Reeve.—Very abundant and in fair condition.

P. *(Turris)* *cingulifera* Lamarck.—Several specimens somewhat worn.

P. *(Surcula)* *bijubata* Reeve.—Plentiful.

P. *(Surcula)* *brevicaudata* Reeve.—Common.
P. (Surcula) cincta Lamarck.—Common.

P. (Drillia) Hadfieldi sp. nov. (Plate III, fig. 23).

*P. testa fusiformi, albida, rugosa, anfractibus septem, longitudinaliter punctocostatis, costis crassiusculis, ventricosis, transversim funiculatis, costis alternatim squarrosē ochraceotinctis, apertura subrotunda, labro exteriore incrassato, intus denticulato, columellae simplice, extus minutē albipustulato.

Long., 6 mill. Lat., 3 mill.

Hab., Lifu.

A pretty species, small, roughly ventricosely costate, transversely crossed by coarse raised lines, the ribs being alternately squarely blotched with ochraceous, columellar lip smooth and simple.

P. (Drillia) Lamberti Montrouzier. — Two specimens. Seemingly allied to the West Indian *Pl. zebra* Lam.

P. (Drillia) obliquicostata Reeve.—Common.

P. (Drillia) pupoidea A. Adams.—Very abundant. This species is identical with *Pl. victor* Sow., recently described from Mauritius.

P. (Drillia) regia Beck.—A number of fine and beautifully-marked specimens. One of the most attractive of the genus.

P. (Crassispira) fusescens Gray. — Several specimens. Also found in the West Indies, thus showing a wide distribution.

P. (Clavus) bilineata Reeve.—One or two examples.

P. (Clavus) unizonalis Lamarck.—Common.

P. (Clavus) vidua Reeve.—Plentiful; very variable in size.

*Mangilia* (Defrancia) albifuniculata Reeve.—One specimen of a very small though striking species.

M. (Defrancia) granicostata Reeve. — Several pretty specimens.

M. (Defrancia) philippinensis Reeve.—Rather common.

M. (Defrancia) granularis E. A. Smith.—Two specimens.

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M. (Glyphostoma) Aliciae sp. nov. (Pl. II., fig. 15).

*M. testa elongato-fusiformi, gracillima, nivea, anfractibus decem, in medio ventricosulis, apud suturas subconstrictis, undique confertim transverso-striatis, longitudinaliter rotundocostatis, apertura oblonga, labro exterioe multum incrasato, brunneo-tincto, precipue marginem apud suturalem, simul ac ad basim labri exterioris.

Long. 9 mill. Lat. 4-50 mill.

Hab. Lifu.

About twenty specimens of this pretty species of *Glyphostoma,* which occupies a position near *G. crassilabrum* Reeve, but is distinct. It is white, graceful, ten-whorled, the whorls somewhat ventricose, transversely striate, and roundly longitudinally costate. The outer lip is much thickened, and the outer sinus stained brown, there being also a brown blotch towards the base of the outer lip. We have much pleasure in associating with this species the name of Miss Alicia Mayor Standen, who has assisted us considerably in the general assortment of a large portion of the collection.

M. (Glyphostoma) calcicincta sp. nov. (Pl. III., fig. 21).

*M. testa minuta, incrassata, rugosa, pellucida, nivea, anfractibus sex, longitudinaliter crassicostatis, costis paucis prominentibus, apud medium transversim una conspicua zona, calcarea, candida, opaca, circumambiente, ultimum apud anfractum latiore, apertura angusta, labro exterioe crassiusculo, albo, minuté pustulato, intus quadri-denticulato, columellari quadri-plicato.

Long. 4 mill. Lat. 2-25 mill.

Hab. Lifu.

A single specimen in beautiful condition of a little bright white semi-opaque shell, this opacity being caused by a dead-white transverse band crossing the coarse ribs and becoming broader in the last whorl. The outer lip, under a lens, is very beautiful, being minutely warted, and with four denticles, the columellar margin with four plaits. This species is of the same character as *G. rugosa* Mighels.

M. (Glyphostoma) crassilabrum Reeve.—One or two specimens.
M. (Glyphostoma) cremonilla sp. nov. (Pl. III., fig. 31).


Hab., Lifu, in shell sand.

By those authors who would reconstitute the genus or sub-genus *Borsonia* (Bellardi), founded upon a Tertiary fossil possessing one or more columellar plaits, this species and two or three others from Lifu would be included in it. At present we prefer following the arrangement as set forth in our National Collection, and adding these new forms to the sub-genus *Glyphostoma*, and taking as the types *G. crassilabrum* Reeve and *G. rugosum* Mighels. The *G. cremonilla* cannot be confounded with *G. nigrocinctum* (Montrouzier) from New Caledonia; it is a coarser-ribbed species, and banded with pale ochre, not black. Two specimens.

M. (Glyphostoma) Emmæ sp. nov. (Pl. III., fig. 24):


Hab., Lifu, in shell sand.

A very elegant little species, in good condition, somewhat ventricose, acuminate, semi-transparent, and straw-coloured, unicolorous excepting for the few square brown spots situate just above the sutures, between the longitudinal costæ on the central whorls and continued in the middle of the last whorl, culminating in the specimen before us in a large dorsal square brown mark near the outer lip. The whorls, with the exception

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of the last, are few ribbed, and transversely crossed twice or thrice with strong projecting corded ribs, the last whorl is many ridged and many corded. Mouth oblong, with a very strong prominent tooth in the outer lip, which is, besides, 4-denticulate, the columellar margin being also 4-denticulate. Canal rather short.

We have much pleasure in associating the name of Mrs. Emma Hadfield with this attractive little shell.

**M. (Glyphostoma) Giliberti** Souverbie.—Described originally from the island of Lifu: our only specimen agrees fairly with the description and representation.

**M. ( Glyphostoma) rugosa** Mighels.—Several.

**M. (Glyphostoma) scalarina** Deshayes.—One specimen.

**M. (Glyphostoma ?) theskela** sp. nov. (Pl. III., fig. 26).

* M. testa attenuato-fusiformi, gracillima, delicatula, albida, anfractibus sex vel septem, longitudinaliter costulatis, transversim densiliratis, liris tenuibus, supra, juxta suturas, inter costas et apud medium anfractus ultimi brunneo-maculatis, apertura oblonga, labro exteriore crassiusculo, simplice, margine columellari octo-plicato.

*Long.*, 7-50 mill; *Lat.*, 3 mill.

*Hab.*, Lifu.

This very interesting little shell we place provisionally under *Glyphostoma*, from which assemblage it differs in the simple outer lip and more uniform shape. The inner or columellar margin of the lip possesses seven or eight close and minute plicae, there is also one minute process at the parietal sinus. It is of a graceful attenuate form, six-whorled, or perhaps seven, but the apex is broken off in the only specimen we have. The pure whiteness of the shell is relieved by a row of brown spots between the ribs just above the sutures and in the middle of the last whorl. The specific name is from the Greek *θέακελος* 'wonderful,' in allusion to the strange configuration of the species.

**M. (Cythara) cithara** Gould.—A few pretty specimens.

**M. (Cythara) inepta** Smith.—One fine specimen. Hitherto
only recorded from Honduras! The author of the species has examined our specimen and agrees with our determination.

M. (Cythara) reticulata Reeve.—Common; a very elegant form.

M. (Cythara) vexillum Reeve.—Abundant.

M. (Daphnella) bella Reeve.—Several specimens of this curiously-marked species.

M. (Daphnella) dulcinea sp. nov. (Pl. III. fig. 25.)


Hab., Lifu.

A very delicately-striated shell, with swollen whorls, impressed at the sutures, obscurely longitudinally ribbed; outer lip effuse, under a lens the surface is seen to be very finely besprinkled with minute dust-like brown spots. One specimen.

M. (Daphnella) nexa Reeve.—A few only.

M. (Daphnella) saturata Reeve.—Several.

Besides these there are a few species of minute Pleurotomidae that we cannot yet determine. Many species have been described, mainly by French conchologists, of which we have no representatives in our National or other collections.

**Family Cancellariidae.**

Cancellaria (Trigonostoma) costifera Sowerby.—Several specimens. This genus seems but poorly represented in the Loyalty Islands, although several are described from New Caledonia.

**Family Olividae.**

Oliva (Strephona) episcopalis Lamarck.—A large number of handsome specimens.

O. (Strephona) erythrostoma Lamarck.—Very numerous. Some specimens unusually large, all in excellent condition and brilliantly coloured.
O. (Strephona) masaris Duclos.—A fine specimen, now in the collection of the Ven. Archdeacon Anson.

O. (Strephona) guttata Lamarck.—A large number of very pretty specimens in all stages.

O. (Strephona) maura Lamarck.—Two specimens only.

O. (Strephona) picta Reeve.—Two specimens, in worn condition.

O. (Strephona) tremulina Lamarck. — Several very fine specimens of an unusually dark form.

O. (Porphyria) sericea Bolt.—Two fine specimens.

Olivella parvula Martyn (?)—Several specimens, all somewhat worn, and therefore rather doubtful.

**Family Harpidae.**

Harpa articularis Lamarck.—One specimen in young condition.

H. minor Rumphius.—Two specimens in the Manchester Museum, Owens College, and three fine ones in the collection of the Ven. Archdeacon Anson—all received from Mr. Hadfield.

**Family Marginellidae.**

Marginella (Persicula) lifuana Crosse.—A considerable number of this pretty little species.

M. (Volvaria) caledonica Jousseaume.—Very near the West Indian *M. avena* and *M. teniata*, but the columella is only three-plaited, and the angle at the suture of the last whorl is more pronounced. Several specimens.

**Family Mitridae.**

Species of this family, exclusive of *Turricula*, are exceedingly well represented by an enormous number of individuals in all stages, and for the most part in fairly good condition.

Mitra (Eumitra) cardinalis Gmelin.—Several.

M. (Eumitra) episcopalis Linné.—Many very fine specimens, some of the adults having the outer lip beautifully serrated.
M. (Eumitra) pontificalis Lamarck.—One adult and several young specimens.

M. (Scabricula) eximia A. Adams.—All of a beautiful warm reddish orange colour variety. One of the most abundant shells sent. The typical form occurs in the Mauritius.

M. (Scabricula) sphaerulata Martyn.—Very common, but mostly worn and poor.

M. (Scabricula) texturata Lamarck, var. lifouana Crosse.—Very plentiful.

M. (Cancilla) filaris Linné.—This species, for many years known as M. filosa Born., possesses two well marked varieties, the typical M. filaris being an attenuate and fusiform shell, the form β. vexillis Martyn, to which all the Lifu and Uvea specimens we have seen belong, is much more obese than the type. The late Mr. Andrew Garrett, who is entitled to speak authoritatively on the subject, as his personal acquaintance with the Polynesian Mitridae was more extended and full than that of any who have preceded or followed him, considered M. vexillis a true species. (cf. Garrett, Polynesian Mitridae, "Journal of Conchology," vol. iii., p. 21, 1880).

M. (Chrysame) ambiguа Swainson.—Plentiful.

M. (Chrysame) coronata Chemnitz.—This species and M. tiarella seem almost too closely allied. The forms we here place under M. coronata would appear intermediate between the two. It is abundant on the coasts of Lifu and Uvea.

M. (Chrysame) ericeа Pease.

M. (Chrysame) laeta Adams.

M. (Chrysame) lugubris Swainson.

M. (Chrysame) tiarella Swainson.

M. (Chrysame) ticaonica Reeve.

M. (Chrysame) turgida Reeve.

M. (Chrysame) vexillum Reeve.

Most of the above very plentiful, but usually waterworn and in poor condition.

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M. (Chrysame) fulvosulcata Melvill, Journal of Conchology vol. v., p. 287, 1888. (Pl. III., fig. 32.)

Originally described from Mauritian specimens sent by Mr. Robillard to Mr. G. B. Sowerby. Several have now come to our notice from Lifu, and the species will doubtless occur in intermediate localities. The transverse furrows, stained with yellow, impart at once a characteristic appearance to the species. We figure the original type, from Mauritius.

M. (Volutomitra) honesta sp. nov. (Pl. III., fig. 17.)

M. testa pyramidato-fusiformi, nitida, brunnea, crassiuscula, levii, anfractibus sex, ultimo rapidè accrescente, ventricoso, apud medium transversim unicinculatis, apertura oblonga, intus cinerea, labro exteriore paulum incrassato, effuso, columella triplicata, plicis conspicuis, cinereis.

Long., 10 mill. Lat., 4°5 mill.

Hab., Lifu.

Two specimens of a little Mitra somewhat resembling the Mediterranean Volutomitra ebenus Lam., and possibly a tropical form of that variable species, though its presence in Lifu would hardly be suspected.

M. (Strigatella) decurtata Reeve = M. scutulata Lam.—Several very fine specimens.

M. (Strigatella) flexilabris Swainson.—One or two in good condition.

M. (Strigatella) litterata Lamk. = M. maculosa Reeve.—Common.

M. (Strigatella) retusa Reeve = M. paupercula Lamarck.—A large number of rather poor specimens.

M. (Strigatella) zebra Reeve.—Common.

M. (Turricula) turriger Reeve.—One specimen.

M. (Costellaria) arenosa Lamarck.—Common.

M. (Costellaria) armiger Reeve.—Several.

M. (Costellaria) cadaverosa Reeve.—Common.

M. (Costellaria) Deshayesi Reeve.—Some large and very beautiful specimens of this interesting species.
M. (Costellaria) dimidiata Sowb.—A few good specimens.

M. (Costellaria) discoloria Chemnitz.—Common.

M. (Costellaria) exasperata Reeve.—Abundant, but mostly of a variety we characterize as follows:—

M. (Costellaria) exasperata var. Hadfieldi var. nov. (Pl. II., fig. 14.)

Shell turreted, eight or nine ribbed, differing from the type in being dark-brown, banded at the line of the sutures of the upper whorls, and also twice transversely banded at the last whorl. Occasionally specimens occur wholly suffused with dark-brown.

An extremely common form at the Loyalty Islands, several hundred specimens having been forwarded by Mr. Hadfield.

M. (Costellaria) modesta Reeve.—A few.

M. (Costellaria ?) nitidissima sp. nov. (Pl. III., fig. 19.)

M. testa minuta, perlèvi, nitente, brunnea, tenui, anfractibus sex, paullum ventricosis, longitudinaliter costulatis, apertura oblonga, labro exterior vix incrassato, columella quadriplicata.

Long., 5 mill. Lat., 1°5 mill.

Tab., Lifu.

Four specimens from shell-sand, all precisely alike, of a very small brown, very shining and smooth shell, longitudinally roundly costate; columella four-plaited. The species may really belong to Volutomitra rather than Costellaria.

M. (Costellaria) nodilyrata A. Adams.—Several.

M. (Costellaria) pacifica Lamarck.—Rather larger than M. cadaverosa of which it may be but a variety. Many specimens.

M. (Costellaria) semifasciata Lamarck.—Not uncommon.

M. (Pusia) alveolus Reeve.—Three not quite full grown specimens we refer almost certainly to this species; the vivid black and white marking, as in M. tusa Reeve, rendering it conspicuous. It is allied both to this species and also M. Shoplandi Melvill, lately described from Aden.

M. (Pusia) amabilis Reeve.—A few good specimens.

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M. (Pusia) dermestina Lam.—Several.
M. (Pusia) lubens Reeve.—One specimen.
M. (Pusia) luculenta Reeve.—Several specimens. Probably a variety of M. Graeffei Crosse.
M. (Pusia) muriculata Lamarck.—Extremely abundant, but few specimens in good condition.
M. (Pusia) nodosa Swainson.—Several.
M. (Pusia) Savignyi Payr.—Two specimens. Quite inseparable from the Mediterranean shell (fide E. A. Smith).
M. (Pusia) rosea Reeve.—A pretty purple species. Two or three specimens.
M. (Pusia) tuberosa Reeve.—Very common.
M. (Pusia) tusu Reeve.—Several pretty specimens in good condition.
M. (Pusia) venustula Reeve.—Common.
M. (Cyllithea) casta A. Adams.—One good specimen of this elegant species.
M. (Cylinder) dactylus Linné.—One very fine specimen.
M. (Cylinder) nucea Gronovius.—Common.
M. (Cylinder) crenulata Lamarck.—A few small specimens.
Imbricara conica Schmck.—Many small specimens.
I. olivæformis Swainson.—Several.
I. ossea Reeve = I. punctata Swainson.—A number of rather worn specimens.

Family Fasciolariidæ.

Fusus gradatus Reeve.—One good specimen.
Fasciolaria filamentosa Martyn.—A number of very fine fresh specimens.
Latirus lautus Reeve.—Several.
L. nodatus Martyn.—One young specimen.
L. (Plicatella) caledonicus Petit.—Very plentiful, but mostly in poor condition.
L. (Plicatella) polygonus Linné.—Two specimens in the Manchester Museum, one in the collection of the Ven. Archdeacon Anson.
L. (Peristernia) aureotinctus Lamarck.—One specimen in the Manchester Museum, one in J. C. Melvill's collection.

L. (Peristernia) chlorostomus Sowerby = L. crenulatus Kiener.—Three nice specimens.

L. (Peristernia) incarnatus Deshayes.—Several specimens in various stages.

L. (Peristernia) nassatulus Lamarck.—Several.

**Family Turbinellidae.**

Cynodonta ceramica Kiener.—Two small specimens.

C. cornigera Lamarck.—Several immature specimens.

C. imperialis Reeve = C. tubifera Anth.—Two specimens.

**Family Buccinidae.**

Tritonidea (Cantharus) gracilis Reeve.

T. (Cantharus) undosus Linné.

T. (Cantharus) marmoratus Reeve.

A few specimens of each, mostly worn.

T. (Cantharus) menkeanus Dunker.—Our only example agrees very well with Japanese specimens of Dunker’s species in J. C. Melvill’s collection.

Engina alveolata Kiener.—One or two examples.

E. astricta Reeve.—Several good specimens showing some variation.

E. iodosia Duclos. (Pl. III., fig. 20).—A most interesting rediscovery of a lost species, which has not been with absolute certainty identified by any conchologist since the time of the original describer, although its identity was suspected by the late Mr. G. W. Tryon, Junr. It appears to run into its allies, E. monilifera Reeve, and E. echinata Pse. (both of which will have to be merged in iodosia) and exactly resembles Duclos’ figure. These figures are considered by some to be fantastic and artificial, so many — exceeding fifty species — having been thus described by Duclos, and not identified since, mostly appertaining to the genera Columbella, Engina and Oliva; but
we hope, since several have been satisfactorily re-identified, others will follow. His plates, reproduced also by Tryon, are very clear, and should leave little room for doubt when comparison is needed.

**E. lineata** Reeve.—In hundreds.

**E. mundula** sp. nov. (Pl. II., fig. 6).

*E. testa parva, oblonga, solida, alba, obtusa, anfractibus sex, longitudinaliter costatis, costis sulcis transversim decussatis, gemmulato-noduliferis, brunneo ochreoque alternatim pictis, apertura angusta, labro crassiusculo, brunneo hic illic maculato.*

*Long., 8 mill. Lat., 4 mill.*

*Hab., Lifu.*

A few specimens of a pretty little shell, doubtless allied to *E. lauta* Reeve from the Philippines, but differing much in size, (being about half the diameter of *E. lauta*), and also in greater obesity of whorl.

**E. phasinola** Duclos.—Several specimens. There can be but little doubt that this species is not a *Columbella*.

**E. rutila** Reeve.—Very rare.

**E. spica** sp. nov. (Pl. II., fig. 12).

*E. testa attenuato-pyramidata, solida, albida, squarrosè brunneo maculato, anfractibus octo, undique transversim densi-striatulis, irregulariter costatis, costis subacutis, ultimo anfractus in medio conspicué angulato, apud basim attenuato, apertura angusta, labro exteriore incrassato, intus denticulato.*

*Long., 11 mill. Lat., 5 mill.*

*Hab., Lifu.*

A striking little shell, of which only one specimen in very fine condition occurred. Its nearest allies are *E. alveolata* Kiener, and *E. Reevei* Tryon = *alveolata* Reeve non Kiener. It is white, solid, attenuate at both extremities, with irregular acutely noded ribs, the nodules imparting a prickly angular appearance to the centre of the last whorl especially. The mouth is narrow, dentate on the interior of the outer lip, which is thickened in the manner characteristic of the genus; the
coloration is, as has been said, white, with squarrose brown variegated markings.

(Pl. III., fig. 27).

This species, described since the original reading of this paper, from two specimens in the National Collection marked 'China Seas,' has, curiously enough, turned up in fair quantity, viz., ten or twelve specimens, in the Loyalty Islands also. We have thought it worth while to append a figure taken from Lifu specimen.

**E. variabilis** Pease.—A few, but worn, specimens.

(Pl. II., fig. 4).

Described from Mr. Hadfield's first consignment of specimens, and found not to be infrequent by the numerous examples, since received. It is allied to *E. bonasia* von Mart. and *E. fusiformis* Pease, but distinct from both. We give a representation of this species.

**E. zonata** Reeve.—In remarkable abundance, and more plentiful than *E. lineata*, which, while it occurred in its hundreds, was eclipsed by the thousands of *E. zonata*. Mostly in capital condition, and showing a good deal of variation, some specimens, for example, being quite black at the base, with hardly any white markings at all.

**E. (Pusiostoma) mendicaria** Linné.—Abundant and variable.

It will be seen by the above array of species of this genus that the Loyalty Islands may almost be considered their metropolis, and we hope, in future, for other interesting and perhaps yet unknown species from this locality. It is urgently to be wished that some specimens might be dredged alive so as to afford opportunity for examination of the radula.

**Phos nodicostatus** E. Ad.—Two specimens of this elegant form.
P. senticosus Linné.—Common and very fine.

**Family NASSIDÆ.**

*Nassa arcularia* Linné.

*N. coronata* Bruguière.

*N. callospira* A. Adams = *N. callosa* A. Adams.

*N. (Niotha) albescens* Dunker.

*N. (Niotha) densigranata* A. Ad.—Not quite typical.

*N. (Arcularia) globosa* Quoy.

*N. (Arcularia) granifera* Kiener.

*N. (Alectryon) glans* Linné.

*N. (Alectryon) monilis* Kiener.

*N. (Alectryon) mucronata* A. Ad.

*N. (Alectryon) papillosa* Linné.

*N. (Alectryon) suturalis* Sowerby.

*N. (Telasco) dispar* Adams = *N. filosa* Gray.

*N. (Telasco) fluctuosa* Adams.

*N. (Telasco) gaudiosa* Sowerby.—Many varieties of this species.

*N. (Hebra) uricata* Quoy and Gaim.

*N. (Hima) eximia* H. Adams.

*N. (Hima) plebecula* Gould.

Of the above, *N. granifera* and *N. monilis* are the most abundant—some hundreds of each; but nearly all are well represented by good specimens in various stages of growth. Besides these, there are seven or eight other *Nassæ* that we have been unable, so far, to identify.

**Family COLUMBELLIDÆ.**

*Columbella* (Pygmaea) *Tankervillei* Montr.—Abundant, but poor specimens.

*C. (Pygmaea) turturina* Lamarck.—Plentiful; variable in size and colour.

*C. (Pygmaea) Tyleri* Gray = *C. pardalina* Lam.—Over a thousand specimens in every conceivable variation of colour and marking, and in excellent condition.
A large number of pretty *Cyanites* (Pygmæa) varians Sowerby.—A large number of pretty specimens.

*C. (Pygmæa) versicolor* Sowerby.—Several.

*C. (Mitrella) albina* Kiener.—Common.

*C. (Mitrella) ligula* Duclos.—Very abundant, and showing considerable variation in colouration. Quite the most beautiful of the genus, in our opinion.

*C. (Atilia) galaxias* Reeve.—Several pretty examples.

*C. (Amycla) conspersa* Gaskoin.—An elegant species of which we have a few nice specimens. We are indebted to Mr. S. Pace for these last two identifications.

*C. (Anachis) lachryma* Gaskoin.—Very few.

*C. (Anachis) marquesa* Gaskoin.—Several specimens, which exhibit so much variation, both in form, sculpture, and marking, as to be apparently separable into two or three species. We are again indebted to Mr. Pace, who is making an especial study of the genus, for his opinion on this matter.

**Family Muricidæ.**

*Murex (Chicoreus) adustus* Lam.—Several good specimens and many worn ones. This includes *M. australiensis* A. Adams, a colour variety represented in some quantity.


*M. (Ocinebra) benedictus* sp. nov. (Pl. II., fig. 12).

\[ M. \text{ testa parva, candida, ovato-fusiformi, anfractibus sex biangulatis, undique transversim tenuissimé, sub lente, striglatis, longitudinaliter paucicostatis, costis angulatim arguté anguliferis, hic illic squarrose pallide brunneo tessellatis, apertura angusta, oblonga, ad basim producta, labro exteriore conspicué denticulato. } \]

*Long., 7 mill. Lat., 4 mill.*

*Hab.*, Lifu, in shell-sand.

A very small but exquisite shell, of which we have only seen one full-grown specimen. It is white, microscopically transversely finely lirate, longitudinally few ribbed, ribs sharply

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angled and almost prickly. The aperture is narrowly oblong, outer lip conspicuously toothed within. It is a moot question whether this species is an *Ocinebra* or *Coralliophila*; we incline to the former view at present.

**M. (Ocinebra) breviculus** Sowerby.—One specimen.

**Purpura persica** Lamarck.—Five fine specimens.

**P. (Thalessa) bitubercularis** Lamarck. —A few small specimens.

**P. (Thalessa) hippocastanum** Linné.—One specimen.

**P. (Thalessa) intermedia** Kiener.—Several.

**P. (Stramonita) rustica** Lamarck.—One specimen.

**P. (Stramonita) vexillum** Reeve.—A few small examples.

**P. (Iopas) sertum** Lamarck.—One fine specimen.

**Pentadactylus (Ricinula) arachnoides** Lamarck = **P. ricinus** L.—Several specimens of both type and var.*-albolabris* Blainville.

**P. (Ricinula) biconicus** Blainville.

**P. (Ricinula) clathratus** Lamarck.

**P. (Ricinula) digitatus** Lamarck.

**P. (Ricinula) horridus** Lamarck.

**P. (Ricinula) spectrum** Reeve.

A fair number of each of above, excepting *P. biconicus*, in moderate condition.

**P. (Sistrum) anaxares** Duclos.—Several examples of this pretty little *Engina*-like species.

**P. (Sistrum) asper** Lamarck.—Common.

**P. (Sistrum) cavernosus** Reeve = **P. ochrostromus** Blainville.—Common.

**P. (Sistrum) chaideus** Duclos.—Common.

**P. (Sistrum) chrysostomus** Desh.—Common and variable.

**P. (Sistrum) fragrum** Blainville.—One example only.

**P. (Sistrum) margariticolus** Broderip.—Several specimens. A variable species that requires more careful attention in order to discriminate its extent of variation.

**P. (Sistrum) morus** Lamarck.—Abundant.
Family **Coralliophilidae**.

**Coralliophila coronata** Barclay.—Worn, but agreeing with specimens of the Mauritian shell in J. C. Melvill’s collection.

**C. madreporarum** Sowerby.—Several specimens in a worn condition.

**C. monodonta** Quoy.—One specimen.

**C. neritoidea** Chemnitz = **C. violacea** Auct.—Several fine specimens in the Manchester Museum and the collection of the Ven. Archdeacon Anson.

Family **Tritonidae**.

**Triton variegatus** Lamarck.—Many, in various stages of growth.

**T. (Simpulum) aquatilis** Reeve.—One good specimen.

**T. (Simpulum) chlorostomus** Lamarck.—One only.

**T. (Simpulum) eximius** Reeve.—One.

**T. (Simpulum) gemmatus** Reeve.—Several. A very neat shell.

**T. (Simpulum) pilearis** Linné.—Three examples.

**T. (Simpulum) rubecula** Linné.—Plentiful and extremely varied in colouration. A rather small form.

**T. (Cabestana) labiosus** Wood.—One example.

**T. (Lotorium) pyrum** Linné.—A single fine specimen.

**T. (Lotorium) tuberosus** Lamk.—Many small specimens.

**T. (Epidromus) decapitatus** Reeve.

**T. (Epidromus) obscurus** Reeve.

**T. (Epidromus) truncatus** Hinds.

A single specimen each of the above three species.

**T. (Persona) ridens** Reeve.—One very juvenile example only.

**R. (Lampas) affinis** Broderip.—Several.

**R. (Lampas) livida** Sowerby.—Abundant.

**R. (Lampas) siphonata** Reeve.—One specimen.

**R. (Apollon) anceps** Lamarck.—One worn example.

**R. (Apollon) pusilla** Broderip.—Several, worn.

Family **Cassididae**.

**Cassis (Semicassis) pila** Reeve.—One poor example.

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C. (Casmaria) torquata Reeve.—Three specimens in good condition.

C. (Casmaria) vibex Linné.—Several.

**Family Doliidae.**

Dolium olearium Brug.—Several medium-sized examples.

D. perdix Linné.—Several; one or two very fine.

**Family Cypræidae.**

Ovula ovum Linné.—A large series of very fine shells, one of which has been bored for wearing as an ornament.

O. tortilis Martyn.—One only, a very beautiful specimen in fine condition.

O. (Calpurnus) verrucosa Linné.—Many fine examples of this pretty species.

Cypræa argus Linné.—Many very beautiful specimens, some of large size and with great variety of pattern.

C. carneola Linné.—Common; variable in size, some being exceptionally large.

C. caurica Linné.—Abundant, but very few specimens in good condition.

C. coffea Gray.—A striking little shell, occurring in considerable numbers.

C. exanthema Linné.—Several, young and adult, of ordinary character.

C. interrupta Gray.—Several, most of them badly worn.

C. isabella Linné.—Abundant.

C. mauritiana Linné.—A great number. Some of the adult shells are very fine. Many specimens are young, in all stages.

C. microdon Gray.—Abundant.

C. Rashleighana Melvill (Pl. II., figs. 7 and 8).—A few specimens of a shell hitherto unique, and considered of uncertain locality. The establishment of the particular habitat of this species is of considerable interest. We
have thought it worth while re-figuring as the former representations were hardly up to the mark.

C. *scurra* Chemnitz.—Several, rather worn. One good specimen in Archdeacon Anson’s collection, and another, very fine, in that of Mr. Cairns.

C. *tabescens* Solander.—Several specimens, showing considerable variation; some are very dwarfed in form, and two are of a pale straw colour without the usual dorsal marking.

C. *talpa* Linné.—Rather common; several specimens unusually brilliant in colour and large-sized.

C. *testudinaria* Linné.—Several very fresh and beautiful specimens.

C. *ursellus* Gmelin.—Common and very fine.

C. *(Aricia)* *arabica* Linné.—Plentiful in all stages.

C. *(Aricia)* *annulus* Linné.—Common; some unusually bright in colour.

C. *(Aricia)* *caput-serpentis* Lamarck.—Common; several very large specimens.

C. *(Aricia)* *moneta* Linné.—Abundant and variable in size and form.

C. *(Aricia)* *sulcidentata* Gray.—One young but fine live specimen with teeth not fully developed in Mr. Cairns’ collection.

C. *(Luponia)* *asellus* Linné.—Plentiful.

C. *(Luponia)* *aurora* Solander = *C. aurantium* Mart. — Mr. Hadfield, in a letter to one of the authors, records coming across a fine specimen of this shell in a native hut, where it was held in much veneration by the occupant, who considered it a kind of fetish.

C. *(Luponia)* *cernica* Sowerby.—Several.

C. *(Luponia)* *clandestina* Linné.—Type absent, but the pretty little var. *Artuselli* Jousseaume (Pl. III., figs. 28, 29) is abundant.

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C. (Luponia) cribraria Linné.—Plentiful.
C. (Luponia) erosa Linné.—Plentiful.
C. (Luponia) flaveola Linné.—Several.
C. (Luponia) gangrenosa Dillwyn.—A few.
C. (Luponia) helvola Linné.—Common.
C. (Luponia) lutea Gronow.—A fine series; many, however, being somewhat waterworn, in which condition they might readily be mistaken for C. ziczac. Some of our specimens seem to be var. Humphreysii Gray.
C. (Luponia) lynx Linné.—Moderately plentiful, but mostly worn.
C. (Luponia) mappa Linné.—A number of remarkably fine examples in the most perfect condition, including a handsome specimen of var. panerythra Melv. (in Mr. R. Cairns' collection), and several of var. subsignata Melv.
C. (Luponia) poraria Linné.—Very abundant, some remarkably fine and richly coloured.
C. (Luponia) poraria var. albinella nov.—Base white; dorsal surface yellow with white ocelli, the purple tinge of the type entirely wanting. A very beautiful and striking colour variety. Two specimens.
C. (Luponia) spurca Linné.—A few rather small specimens.
C. (Luponia) stercus-muscarum Lamarck.—Several. A form nearly allied to C. punctata L.
C. (Luponia) tigris Linné.—Many large and beautiful shells. Also some in a juvenile condition.
C. (Luponia) vitellus Linné.—Common. Mostly small in size. Two examples of var. sarcodes Melv.
C. (Luponia) ziczac Gmelin.—Several.
Trivia Childreni Gray.—One fine specimen.
T. insecta Mighels.—Several; variable in size.
T. oryza Lamarck.—Several.
T. staphylæa Linné.—Common.
T. (Pustularia) nucleus Linne.—Abundant.
T. (Epona) cicercula Linné.—Common; mostly worn. Several examples of var. *Lieuerdi* Jousseaume.

T. (Epona) globulus Linné.—Common.

Erato corrugata Hinds.—Several.

**Family Strombidae.**

Strombus thersites Gray = S. ponderosus Phil.—One specimen of this rare species in the finest condition, brought over by the Rev. James Hadfield on his first visit in 1891—2 (now in J. C. Melvill's collection).

S. urceus Linné.—Received by J. C. Melvill from Mr. Hadfield's first consignment, 1891. It does not occur in the second or third collections, which is surprising.

S. (Monodactylus) pacificus Swainson = S. nova-zealandiæ Chem.—Two fine specimens and several worn ones.

S. (Canarium) floridus Lamarck.—Some hundreds of specimens, showing great variation in size and colouration.

S. (Canarium) gibberulus Linné.—Abundant.

S. (Canarium) samar Chemnitz.—One fine specimen.

S. (Conomurex) luhuanus Linné.—Several small specimens.

Pterocera (Harpago) chiragra Linné.—Several specimens, chiefly of a stunted form and richly coloured.

P. (Heptadactylus) lambis Linné.—One small specimen in the Manchester Museum, and a few mature in that of the Ven. Archdeacon Anson, of Birch Rectory, Rusholme.

Terebellum subulatum Linné.—Some hundreds of fine specimens with great variety of marking. The size and beauty of these surpass those we have seen from any other quarter of the tropics.

**Family Cerithiidae.**

Triforis connatus Montrouzier.—One of the larger species.

T. Hindsii Deshayes.—Several.

T. sculptus Hinds.—Several.

T. violaceus Quoy.—Of a pale lilac hue, whorls much noduled.

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Cerithium armatum Phil. var. lifuensis nov. (Pl. III., fig. 33). Differs from the type in greater nodulosity of whorls, especially round the sutures, and in more pronounced yet delicate marking and brighter colour.Apparently common in Lifu.

C. carbonarium Phil.—Three or four specimens. Allied to the West Indian C. atratum Born.

C. corallinum Sowerby.—One small specimen of this Philippine Island species, received through Mr. R. Cairns.

C. columna Sowerby.—An immense number of specimens, many being fine and thousands in fragmentary condition.

C. dichroum sp. nov. (Pl. II., fig. 5).

C. testa solida, breviter fusiformi, pallidé ochracea, transversim crassistriata, anfractibus octo, irregulariter supra suturas nodulosis atque castaneo zonatis, ultimo apud peripheriam altera zona, nunc tenui, nunc latiore et interdum interrupta succineto, canali paulum producto, apertura ovata, labro simplice.

Long., 8 mill. Lat., 3°50 mill.

Hab., Lifu.

A somewhat shortly fusiform species, the whorls much cemented together, and since they are uniformly transversely striate, it is difficult to descry the sutural juncture. A brown chestnut band, in some specimens broader than in others, encircles the shell just above the sutures, the last whorl also having an additional band round the periphery. Various nodules, somewhat irregularly placed, also encircle the whorls above the sutures.

Several specimens. Near C. unilineatum Pease, from the Galapagos Islands.

C. dubium Sow. = C. eludens Bayle.—Several in a young state.

C. gracile Pease = C. rostratum Sow.—Several.

C. morus Lam.= C. variegatum Quoy.—Not so abundant as some of the other tropical forms at Lifu. Mostly young specimens.
C. *nassoides* Sow. = *C. maculosum* Mighels. — A few specimens of this pretty little species.

C. *salebrosum* Sow. — Several, showing much beautiful variation.

C. *zebrum* Kiener.—Described originally from the Galapagos Isles, but we see hardly any difference in the numerous Lifu specimens, including the var. *detectum* Sowb., which is also represented.

C. *(Vertagus)* *aluco* Linné.—A handsome and infrequent species.

C. *(Vertagus)* *articulatum* Ads. & Reeve.—Several.

C. *(Vertagus)* *fasciatum* Bruguière.—A large number of very fine specimens. One good and several poor examples of the form known as *V. martinianus* Pfr.

C. *(Vertagus)* *lineatum* Lamarck.—Several specimens.

C. *(Vertagus)* *obeliscus* Bruguière.—Several specimens in poor condition.

C. *(Vertagus)* *semi-nudum* Sowb.—Several. A form allied to *C. obeliscus* and differing slightly in sculpture.

C. *(Lampania)* *lacteum* Kiener.—Plentiful.

C. *(Lampania)* *piperitum* Sowerby—Plentiful.

C. *(Lampania)* *zonale* Bruguière.—Several.

C. *(Pyrazus)* *palustre* Linné.—Two specimens in poor condition.

*Bittium* sp.—Several specimens of a form near *B. abruptum* Watson. Probably a new species, but we hesitate at present to describe it as it does not seem to possess many salient characters.

*Potamides caledonicus* Jousse.—One small specimen only.

*Cerithiopsis sinon* Bayle. (Pl. I., fig. 3).—Several specimens of a remarkably beautiful shell, which appears to be so scarce and little known that we give a figure of it. It was originally described as *C. clathratus* Ads., and in the British Museum there are three tablets so named; but Bayle preferred the change on account of this name being pre-occupied by a fossil species.
FAMILY **MODULIDÆ**.

**Modulus tectum** Gmelin.—Several. A small variety.

FAMILY **PLANAXIDÆ**.

**Planaxis virgatus** Smith.—Common.

FAMILY **VERMETIDÆ**.

**Vermetus (Phylacodes) c.f. nodoso-rugosus** Lischke.—Very few specimens, enabling us only to make a guess at the identification. Lischke's species, however, seems the nearest to our form.

FAMILY **TURRITELLIDÆ**.

**Mathilda sinensis** Fischer. (Pl. III., fig. 27.)—One specimen in J. C. Melvill's collection, received from Mr. Hadfield in 1891. White and umbilicate, very exquisite in sculpture, but only 6 mills. in length.

FAMILY **MELANIIDÆ**.

**Melania Matheroni** Gassies.—Abundant.

**M. Rossiteri** Gassies.—One or two in Mr. Cairns' collection.

FAMILY **LITTORINIDÆ**.

**Littorina obesa** Sowerby.—Common.

**L. (Melaraphe) mauritiana** Lamar.—Several specimens; a small form.

**L. (Melaraphe) undulata** Gray.—Several.

**Tectarius miliaris** Quoy.—Several.

FAMILY **SOLARIIDÆ**.

**Solarium (Philippia) oxytropis** A. Adams.—Several, but small. A rare species.

**Torinia infundibuliformis** Gmelin. — Several, prettily chequered.

**T. perspectivunculum** Chemnitz.—Two specimens.

FAMILY **LIPTIIDÆ**.

**Diala** A. Adams is included as a sub-genus of *Litiopa* by Tryon and also Paul Fischer, but we are inclined to agree with
Adams as to the generic distinctness of both this and *Alaba*, also of Arthur Adams.

Three species or perhaps more of this genus appear to occur, but so much difficulty attends the elucidation of the species, and so little is their distribution known, that it is impossible to arrive at any certainty on the subject. The genus, distinct in our opinion from *Liitopa*, as observed above, sadly needs a competent monographer.

**D. Hardyi** sp. nov. (Pl. II., fig. 10).

*D. testa pyramidato-fusiformis, lactea, solida, nitida, anfractibus septem, apud suturas canaliculatis, undique regulariter striato-sulcatis, ultimo apud peripheriam angulato, apertura rotunda labro apud marginem columellarem ochraceo.*


A small milk-white species, very regularly striately sulcate, unicolorous and without markings.

**D. Hardyi β prolongata** var. nov. (Pl. II., fig. 11).

Whorls 8, more rounded, shell more elongate, not angled at the periphery.


*Hab.*, Lifu and Uvea, with the preceding, in shell sand.

These two forms occur together, and are distinct enough when taken notice of at first, but the more one studies them, the more they are seen to be joined by intermediates. The variety seems near *D. suturalis* Adams from the Philippine Isles. We have much pleasure in connecting with this species the name of Mr. John Ray Hardy, of the Manchester Museum, Owens College, who has rendered us much assistance in the sorting and investigation of this Lifu collection of shells.

**D. ludens** sp. nov. (Pl. II., fig. 9).

*D. testa oblonga fusiformis, solida, albescente, anfractibus sex planatis, levibus, in medio circâque basin ultimi anfractus sulcato-striatis, transversim albo tessellatis, precipue juxta suturas, et apud peripheriam, transversimque interruptis lineis brunneis decoratis. Apertura rotunda, labro crassusculo simplice.*


*Hab.*, Uvea (in shell-sand, from Mr. Hadfield).

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Seven or eight specimens, but only one or two in good condition. Allied, though not very nearly, to *D. lauta* Adams, from South Australia, but much smaller and less shining. The compressions at the sutures are not so marked, and the lineation of the brown transverse marking more interrupted and not so broad. The opaque white tessellated ornamentation is not present in *lauta*. *D. albugo* Boog Watson, from Wednesday Island ('Challenger' Expedition) of which there are specimens also in J. C. Melvill's collection from Thursday Island, from shell-sand collected there by Mr. Arnold Umfreville Henn, is also allied, though distinct.

**D. semistriata** Phil. = *varia* A. Ad.—Rare, and agreeing with authentic specimens from Adams marked 'varia' in J. C. Melvill's collection.

### FAMILY RISSOIIDÆ.

**Rissoina distans** Anton. = *R. canaliculata* Schwartz.—Two specimens.

**R. minuta** Neville.—One specimen, like *R. scolopax* or *R. subconcinna*, but only 0.3 millimetres in length, may perhaps be placed here. (It is figured in Kuster's Conch. Cab., pl. xv., fig. 12).

**R. scolopax** Souverbie.—Many. Evidently common, and very beautiful.

**R. (Zebina) curta** Adams.—Several.

**R. (Zebina) funiculata** Souverbie. — Several. Perhaps identical with *R. spiralis* Souverbie, of which we have not seen specimens.

**R. (Zebina) subconcinna** Souverbie.—Several. Resembling *R. scolopax* Souv.

**R. (Moerchiella) spirata** Sowb. — Two specimens of the type, and several of
var. *Lamberti* Souverbie,
var. *Orbignyi* A. Adams, and
var. *artensis* Montrouzier.—This last a turreted form.
R. (Moerchiella) spiralis Souverbie.—One specimen seems to approach R. artensis Montrouzier, just mentioned.


Barleeia Chasteri sp. nov. (Pl. III., fig. 22).

*B. testa minuta, levissima, vix pellucente, anfractibus quinque, levibus, ventricosulis, ochraceo-brunneis, infra suturas transversim vitta calcarea succinctis, simul ae apud basin anfractus ultimi, apertura rotunda, pupinaformi, labro fere continuo, incrassato.*

Long., 1°75 mill. Lat., 1 mill.

Hab., Lifu (in shell-sand).

Twenty to thirty specimens of this pretty little shell have come under our observation. Some specimens are of a darker ochreous-brown colour, and therefore show the contrast with the chalky white transverse band just below the sutures more distinctly than the paler forms. The whorls are five in number, and the whole shell is extremely smooth, barely translucent; whorls slightly ventricose; operculum unknown.

We think (as pointed out to us by Mr. Edgar Smith) that the genus *Barleeia* fits this species more nearly than any of the other Rissoid sectional genera or sub-genera, although we believe the seas of Europe alone contain nine-tenths, if not all, the hitherto described species of the genus. M. Fischer includes *Fairbankia bombayana* Blanford, however, with *Barleeia*, and it is probable that it is generally diffused over the tropical area—indeed, in Paetel’s Catalogue, some Mauritian and Californian species, not known to us, are included likewise.

**Family CYCLOSTOMATIDÆ.**

Omphalotropis granum Pfr.—Common.

**Family TRUNCATELLIDÆ.**

Truncatella conspicua Brown = T. vitiana Gld.,—Not uncommon.
FAMILY HIPPONYCIDÆ.

*Hipponyx antiquatus* Linné = *H. mitrula* Gmel.—Many, mostly waterworn.

*H. australis* Linné.—Not uncommon; one example *in situ* on a specimen of *Turbo petholatus*.

*H. barbata* Sowerby.—Several.

FAMILY CAPULIDÆ.

*Capulus intortus* Meusch.—Several.

*C. militaris* Linné.—Several.

*Calyptraea hipponiciformis* Reeve.—Several, mostly worn.

*C. tortrix* Reeve.—Several pretty specimens.

FAMILY NATICIDÆ.

*Natica chinensis* Lam.—Common, and in good condition.

*N. Gaidei* Souverbie = *N. lineozona* Jouss.—Plentiful. A very clearly marked and beautiful little shell.

*N. Gualteriana* Phil.—An imperfect specimen or two.

*N. marochiensis* Gmelin.—Many specimens of this widely-distributed species, showing some amount of variation.

*N. picta* Recluz.—Worn, but with the characteristic markings.

*N. Robillardi* Sowerby.—Allied to *N. gambie* Recluz, and hitherto only known from Mauritius. Several fine specimens. We are indebted to Messrs. Edgar A. Smith and E. R. Sykes for aid in determination of this species.

*N. violacea* Sowerby.—Common.

*N. (Ruma) simiae* Chemnitz.—Common.

*N. (Ruma) succinoides* Reeve = *N. melanostoma* Gmel.—Abundant.

*N. (Mamma) aurantia* Lam.—Several; the finest hitherto recorded, in the collections of John Hardy and R. Cairns.

*N. (Mamma) mamilla* Linné.—Common.

*N. (Mamma) orientalis* Gmelin.—Common.

FAMILY SCALARIIDÆ.

*Scalaria (Scala) pyramidalis* Sowerby.—One specimen.
S. (Amaea) fimbriata Adams (?)—One pretty specimen, which we somewhat doubtfully place here, has been referred to Mr. E. A. Smith, who informs us that it is near to Adams' species, which is unfigured and was described from Japan, but it has fewer ribs, and may be new. We refrain, however, from naming our solitary example until more specimens come to hand for comparison, especially as it is not in first-rate condition.

S. (Acrilla) gracilis H. Adams.—Two specimens.

**FAMILY EULIMIDÆ.**

**Eulima proxima** Sowerby.—Two specimens.

**FAMILY PYRAMIDELLIDÆ.**

**Pyramidella mitralis** A. Adams.—Several.

P. nitida A. Adams.—Common.

P. nodicincta A. Adams.—Several.

P. variegata A. Adams.—Abundant.

**Obeliscus dolabratus** A. Adams.—Several.

O. pulchellus A. Adams.—Several.

O. sulcatus A. Adams.

O. turritus A. Adams.—Several.

**Odostomia interstriata** Sowerbie.—Two specimens—one white, one yellowish—the number of whorls is not quite as many as in the typical form, of which there are specimens from Upolu in J. C. Melvill's cabinets, but we place the species here with considerable certainty.

**Syrnola brunnea** A. Ad.—Three worn specimens of this interesting form.

**S. Mossiana** sp. nov. (Pl. II., fig. 16).

*S. testa attenuata, lævi, nitida, delicatula, anfractibus septem, supra subventricosis, apud saturas pallide ochraceo-cinetis, ultimo anfractu recto, prolongato, in medio ochraceo-cineto, apice obtuso, apertura oblonga, labro exteriore simplice, columella unipliicata.*

*Long., 7·50 mill. Lat., 2·25 mill.*

_Hab._, Lifu.

A few specimens only. The shell is smooth, whitish, shining, pyramidal, whorls seven, the upper ones somewhat ventricose, the last whorl straight and produced, with a pale ochraceous median band, this band being also perceptible around the sutures of the upper whorls. The apex is obtuse, outer lip simple, columella with one fold or plait. We have much pleasure in associating with this shell the name of Mr. William Moss, of Ashton-under-Lyne.

**Family Helicinidae.**

*Helicina gallina* Gassies.—A pretty species. Fairly common.

*H. lifouana* Crosse.—In great numbers, and very variable. Specimens from Uvea which have been identified as a form of this species, are considerably larger than those received from Lifu.

*H. mediana* Gassies.—Common and variable.

*H. Primeana* Gassies.—Common. Several specimens of the carinated variety.

*H. sphæroidea* Pfr.—Common.

*H. sublævigata* Pfr.—Common.

Several thousands of the above-mentioned small species of *Helicina* came to hand; in one or two parcels received from Mr. Hadfield they had apparently been used for packing, the interstices between the larger shells being filled in solid with them. Many of the shells are "dead," and very few retain the operculum.

**Family Hydrocenidae.**

*Hydrocena Fischeriana* Gassies.—Abundant.

**Family Neritidae.**

*Nerita polita* Linné.—Several.

*N. (Peloronta) aurantia* Recluz.—Several.

*N. (Peloronta) chrysostoma* Recluz.—Common.

*N. (Peloronta) filosa* Reeve.—Several.

*N. (Peloronta) plicata* Linné.—Several.

*N. (Thelicostyla) albicilla* Linné.—Several.
Nerita (Thelicostyla) marmorata Homb.—Common.
Neritina (Vitta) morosa Gassies.—Common.
N. (Dostia) lifuensis Ads. & Angas.—Several.
N. (Clithon) nucleola Morelet.—Common.

Family "NERITOPSISÆ".

Neritopsis radula Linné.—One fine specimen.

Family "TURBINIDÆ".

Turbo petholatus Linné.—A number of very fine and perfect specimens; also many young ones.
T. (Senectus) argyrostomus Linné.—One remarkably fine specimen.
T. (Senectus) artensis Montrouzier.—Two fine specimens in the collection of the Ven. Archdeacon Anson. Peculiar to the New Caledonian group.
T. (Senectus) chrysostomus Linné.—Several pretty specimens.
T. (Senectus) moluccensis Phil.—One of the most interesting examples in the collection. Although we have never seen the type, the description given by Philippi is so lucid, and Sowerby's figure (Thes. Conch., Turbo, pl. xiv., fig. 177) so plain that we have had but little difficulty in our identification. The original locality is Amboyna. The shell is a warm yellow, narrowly umbilicate, with polished transverse ribs, the interstices being obscurely crenulate, whorls five in number, and the ribs flecked with red and yellow spotting; last whorl slightly angled below the sutures, and outer lip tinged with green. In the Manchester Museum collection.
T. (Senectus) nicobaricus Gmelin.—Abundant.
T. (Senectus) radiatus Gmelin.—Many, mostly young or worn.
T. (Senectus) sparverius Gmelin.—Several.
T. (Senectus) spinosus Chemnitz.—One fine specimen.

Family "TROCHIDÆ".

Trochus niloticus Linné.—One small specimen.

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Polydonta conspersa Raff.—Several.
P. histrio Reeve.—Several.
P. tricatenata Reeve.—Two specimens.
P. tubifera Kiener.—Several.
P. obesa Reeve.—Several.
P. (Infundibulum) concava Gmelin.—Two, in the collection of the Ven. Archdeacon Anson, of Birch Rectory, Rusholme, both received from Mr. Hadfield, in 1892.
Pachypoma rhodostoma Lamarck.—Several.
Pyramidea fenestrata Gmelin.—Several.
P. obeliscus Gmelin = P. pyramis Born.—Three specimens.
Minolia glaphyrella sp. nov. (Pl. III., fig. 18).

M. testa rotundo-conica, profundè sed angustè umbilicata, solidiuscula, pallidè straminea, apice obtuso, anfractibus quinque, ventricosis, ad suturas impressis, undique transversim arctè liricinctis, liris regularibus microscopice brunneopunctatis, continuis, anfractu ultimo apud peripheriam subangulato, obscure brunneo-maculato, apertura parva, rotunda, labro exteriore vix incrassato, simplicie, margine columellarì parum contracto.

Long., 2'25 mill. Lat., 5 mill.

Hab., Lifu.

A neat little species, very pale straw colour, rather solid, and uniformly delicately transversely lirate; under a lens some very obscure small brown spotted markings on the liræ, and larger spots at the periphery, are observable; umbilicus deep but narrow, mouth small, roundish. This shell seems for the present, at all events, best located in Minolia (A. Ad.), where we would also place M. lifouana rather than in Monilea (Swains.). It is more elaborately sculptured than M. lifouana, to which it does not bear more than a passing resemblance.

Minolia lifouana Fischer.—A few of this pretty little shell.

Clanculus clanguloides Wood. — A pretty pink-suffused variety.

C. Thomasi Crosse. — One, not perfect, but exhibiting the peculiar sculpture.
C. unedo A. Adams.—Several.

Elenchus (Thalotia) elongatus Wood.—Several.

G. nucleus Phil.—Common. Not quite typical, but not sufficiently distinct to separate in any way.

Ethalia guamensis Quoy.—Five specimens. The absence of any species of Umbonium seems remarkable.

Margarita striatula Phil.—Several specimens which, if not this species, are a close ally. We are indebted to Mr. E. Ruthven Sykes for the identification.

**Family Delphinulidae.**

Delphinula distorta Linne.—One specimen.

D. laciniata Lamarck.—Two very handsome specimens.

Liotia varicosa Phil.—One or two specimens.

**Family Stomatidae.**

Stomatella haliotidea Sowerby.—Two specimens.

S. maculata Quoy & Gaim.—One specimen.

S. Mariei Crosse.—Two, agreeing exactly with authentic specimens in J. C. Melvill's collection.

S. orbiculata A. Adams.—Several.

S. papyracea Chemnitz.—Several.

S. sulcifera Lamarck.—One small example.

Gena stellata Sowerbie.—One fine specimen.

Stomatia decussata A. Adams.—One specimen.

**Family Haliotidae.**

Haliotis sp.—In the collection of the Ven. Archdeacon Anson. Too imperfect to identify.

H. (Padollus) ovina Chemnitz.—Several small specimens.

**Family Acmaeidae.**

Acmaea crucis Ten.-Woods.—One pretty specimen.

A. conoidea Quoy.—Several.

**Family Patellidae.**

Patella stellaris Reeve.—Several.

P. variegata Reeve.—Several.

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Class **SCAPHOPODA.**

Family **DENTALIIDÆ.**

*Dentalium* sp.—Three specimens too worn to identify with certainty, but closely allied to *D. politum* L.

Class **PELECYPODA.**

Order **TETRABRANCHIATA.**

Family **OSTREIDÆ.**

*Ostrea cristá-galli* Linné.—One perfect specimen and several valves of juvenile examples.

Family **SPONDYLIIDÆ.**

*Spoundylus ocellatus* Reeve.—Several valves.

*S. pacificus* Reeve.—This last we identify with some little doubt, the specimens being in rather poor condition.

Family **PECTINIDÆ.**

*Pecten pallium* Linné.—One perfect specimen and several valves of this beautiful species.

*P. radula* Linné.—Valves only, mostly juvenile.

Family **AVICULIDÆ.**

*Avicula (Meleagrína) margaritífera* Linné.—A number of small-sized specimens.

*A. (Meleagrína) anomóides* Reeve.—Two specimens, one perfect but very juvenile.

*Crenatula c.f. flammea* Lamarck.—One young example.

*Perna c.f. linguáefórmis* Reeve.—One young specimen.

Family **MYTILIDÆ.**

*Mytilus* sp.—Several specimens perhaps of *M. substírótus* Recluz, but too young to identify with certainty.

*Septifer pilosus* Recluz.—Several perfect specimens.

*Modiola tulipa* Lamarck.—We cannot make out any difference between our specimens and the Australian and West Indian forms of this species.

*Lithodómus gracilis* Phil.—Two very fine and perfect examples.
Barbatia fusca Brug.—Four perfect specimens and several valves.

Two or three other species of Arcidae are in the collection, but all single valves, and somewhat worn. One comes near A. japonica Reeve.

Pectunculus cf. novo-caledoniensis Angas.—One large valve and three juvenile examples which seem to be this species.

Mytilicardia muricata Sow.—Many single valves.

M. variegata Brug.—Several valves.

Kellia fidelium sp. nov. (Pl. III., fig. 30).

K. testa ovato-rotunda, tenui, nitida, lactea, latere postico rotundato, antico compressiuscolo, vix subquadrato.


Hab., Lifu.

A very beautiful milk-white shining species, not unlike some of the Scintillae in form, but more agreeing with the genus Kellia, to which we have relegated it. The hinge appears that of a normal Kellia. Rare.

Tridacna crocea Lamarck.—Two perfect specimens, one of them a juvenile only 20 mills. wide.

Lævicardium australe Sowerby.—Several.

Hemicardium cardissa Linné.—One small specimen.

H. hemicardium Linné.—Several valves.

H. (Fragum) unedo Linné.—Valves only.

Chama foliacea Quoy.—Worn valves only, but showing the distinctive red staining within.

Libitina angulata Lam.—Several very pretty specimens.

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**FAMILY VENERIDÆ.**

*Caryatis inflata* Sow. = *C. affinis* Gmel.—Several valves.

*Lioconcha castrensis* Linné.—Several well-marked specimens in various stages of growth.

*L. picta* Lam.—Two fine specimens.

*L. sulcatina* Lam.—Valves only.

*Chione* sp., near *C. cancellata* Chem.—One small example.

*C. costellifera* Ads. & Reeve.—Several perfect specimens, almost identical with Philippine examples of this species.

*C. marica* Linné.—Several beautiful specimens.

*C. reticulata* Linné.—One very fine specimen and some single valves.

**FAMILY DONACIDÆ.**

*Donax (Latona) australis* Lam.—One good perfect example and several single valves.

**FAMILY PSAMMORIIDÆ.**

*Asaphis deflorata* Linné.—Many fine specimens.

**FAMILY LUCINIDÆ.**

*Lucina (Codakia) exasperata* Reeve.—Two perfect specimens and several valves.

*L. (Codakia) fibula* Reeve.—Many in great variety of color and form, white, salmon-pink, and yellow.

*L. (Codakia) interrupta* Lam.—One fine perfect specimen received by J. C. Melvill from Mr. Hadfield in 1891; also one in the Anson collection from the same source.

*L. (Codakia) punctata* Linné.—One perfect and several valves.

*Loripes edentulus* Linné.—Many imperfect specimens; valves only.

*Corbis fimbriata* Linné.—Several large and very beautiful specimens.

**FAMILY TELLINIDÆ.**

*Tellina (Tellinella) interrupta* Wood.—One specimen.

*T. (Tellinella) jubar* Hanley = *T. virgata* var.—Two beautiful specimens.
T. (Tellinella) perna Speng.—One or two.
T. (Tellinella) picta Desh.—Several fine examples.
T. (Tellinella) rugosa Born.—Some good specimens, and several single valves.
T. (Tellinella) virgata Linné.—Common.
T. (Tellinella) vulsella Chemn.—Valves only.
T. (Donacilla) rhomboïdes Quoy & Gaim.—Two perfect specimens and several odd valves. A very pretty form.
T. (Acropagia) scobinata Linné.—Two fine examples.
T. (Tellinula) culter Hanley.—A few brilliantly-coloured examples, crimson, white, or yellow.
T. (Tellinula) dispar Conrad.—One specimen.
Macoma æqualis Deshayes.—A few examples, near M. sub-ovata Sow. We fancy the true M. subovata also occurs, its head-quarters being New Zealand.

BRACHIPODA.

FAMILY TEREBRATULIDÆ.

Terebratella sanguinea Chem.—Three specimens.
ADDENDA.

Upon again examining the last collection sent over by Mr. Hadfield, we find several species which we regret were not noticed in time to be placed in their proper sequence in the foregoing list. We now append them, and they will serve as a proof, should such be needed, that the resources of these islands are very far from being exhausted, and that any future consignments from this locality would be the means of adding several important, and possibly specifically new additions, to the large number already catalogued.

Rhytida Deplanchesi Gassies.—Several.
R. ouveana Souverbie.—Three specimens.
Planorbis Rossiteri Crosse.—Several.
Conus (Rhizoconus) capitaneus Linné. — One, in very fine condition, with epidermis.
C. (Lithoconus) Gruneri Reeve.—One.
Oliva (Strephona) carneola Lamarck. — Several, showing some variation of banding and colour.
Latirus (Peristernia) Wagneri Ant. = L. crenulatus Reeve.—One or two.
Ranella (Lampas) Paulucciana Tapp.-Canefri. — One, a good specimen and very distinctive.
Triton verrucosus Reeve.—One specimen.
T. (Lotorium) sinensis Reeve.—Several.
Cypræa aurora Sol. (p. 112).—Mr. Hadfield, in letter dated July 27, 1894, gives the following additional information: "Mrs. Hadfield has come upon a rare treasure in the shape of a fine orange Cowrie. It is reported among the natives that the old woman who found it was struck on the forehead by a demon, who asked her why she took the shell, a similar one never having been found in those waters. She died from the effects of the blow, so her good pastor tells me."
Cerithium nodulosum Bruguière.—One very fine specimen.

Mitra (Pusia) Montrouzieri Souverbie.—This little species is more commonly known as *M. tricolor* Montr., a name preoccupied by a Mediterranean species (*M. tricolor* Gmel.).

Engina pulchra Reeve.—One, typical and very beautiful.

Purpura (Thalessa) echinata Blainville.—Two specimens.

Pentadactylus (Sistrum) elongatus Blainville—cancel-latus Quoy.—One good specimen showing the characteristic interstitial pitting.

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ERRATA.

*Page 88, line 18.*—"Plecotremat." Since the former part of this paper was put in type, Mr. E. R. Sykes has published (Proc. Mal. Soc., vol. i., pp. 241-299) an exhaustive review of the genus *Plecotrema* H. & A. Adams. In accordance with the law of priority, the two species hitherto known as *P. labrellum* H. & A. Adams and *P. Souverbiei* Montr. must now be termed *P. striatum* Philippi and *P. bellum* H. & A. Adams respectively.

*Page 107, line 19.*—For "uricata" read "muricata."

*Page 108, line 25.*—For "fig. 12" read "fig. 13."

*Page 116, line 30.*—For "plate I." read "plate II."

*Page 117, line 11.*—Delete "(Pl. III., fig. 27)."

*Page 119, line 19.*—For "0.3" read "3."

EXPLANATION OF PLATE II.

Fig. 1.—Haminea Cairnsiana sp. nov. ... ... ... p. 89
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'' 9.—Diala ludens sp. nov. ... ... ... ... '' 118
'' 10. — '' Hardyi sp. nov. ... ... ... ... '' 118
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'' 12.—Engina spica sp. nov. ... ... ... ... '' 105
'' 13.—Murex (Ocinebra) benedictus sp. nov. ... ... '' 108
'' 14.—Mitra (Costellaria) exasperata var. Hadfieldi var. nov. ... ... ... ... ... ... '' 102
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Plate II.

LIFU MOLLUSCA.
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LIFU MOLLUSCA.
MUSEUM REGULATIONS.

1.—The Museum is open to the public daily, from 11 a.m. to 4 p.m., during the months of November to February; 11 to 5 during March, April, September, October; and 11 to 6 from May to August. Admission free and without ticket.

2.—The Museum and Museum Library are further open to persons desirous to make use of them for the purposes of study. The Keeper will issue tickets of admission on suitable recommendation.

3.—Students of the College are admitted to the Museum on any day in the week between the hours of 10 a.m. and 5 p.m. Those whose studies necessitate access to the specimens and the loan, for use in the Museum buildings only, of the books in the Museum Library, may procure Students' tickets from the Keeper, on the recommendation of the Professors or Lecturers in the several departments, such tickets to be valid only for the session in which they were issued.

4.—The Museum is closed on Ash Wednesday, Good Friday, and Christmas Day.
MUSEUM HANDBOOKS.

The following are ready, and may be had at the Museum or of the Publisher—

MR. J. E. CORNISH,
St. Ann's Square,
Manchester.

General Guide to the Museum (Illustrated) - - - Price 6d.
Catalogue of the Embryological Models - - - Price 1s.
Catalogue of the Type Fossils - - - Price 2s.
Outline Classification of the Animal Kingdom - - Price 2d.
Outline Classification of the Vegetable Kingdom - Price 2d.
Catalogue of the Library - - - Price 2s. 6d.
" " (bound in cloth and interleaved) Price 5s.
Catalogue of the Hadfield Collection of Shells from the Loyalty Islands (with two plates) - - Price 1s.