SUMMARY OF THE FAUNA OF FUNAFUTI.

XIX.

SUMMARY OF THE FAUNA OF FUNAFUTI.

THE fauna of the Atoll of Funafuti, as presented by different writers in the preceding pages, will now be briefly enumerated in systematic order. With that information will also be incorporated various records, either overlooked in the preparation of the articles referred to, or produced since their publication, and embracing the Archipelago as a whole.

Prior to the advent of the Expedition, not more than eight species of animals were recorded in literature from Funafuti; the following lists embrace about eight hundred and fifty entries.

Though the student of Zoogeography will herein find a more complete account of the life of a Central Pacific Atoll than has previously appeared, he is cautioned not to use it as an exhaustive catalogue. The results of brief sojourn by a few poorly equipped visitors, may indeed present a picture in which the salient features loom obscurely, as in a partly-developed photograph, but nothing more.

Class MAMMALIA.

Mus exulans, *Peale.* Delphinus, *sp.*

Class AVES.

The account of the Avifauna of the atoll by Mr. A. J. North (pp. 79 – 88) can be supplemented by a few additions. Dr. H. Gadow has briefly enumerated the birds shot on Funafuti by Mr. J. S. Gardiner.* To these he adds *Carpophaga pistrinaria*, a species identified on the wing by his informant. As Mr. Gardiner was not previously acquainted with this species, such an identification cannot be considered of value, and I accordingly exclude it. In 1897 Mr. W. G. Woolnough, B.Sc., succeeded in shooting an example of the much debated Ellice Island Pigeon, which was subsequently determined by Mr. A. J. North as *Globicera pacifica.*†

The avifauna of the Archipelago will doubtless be found on examination to contain most, if not all, of the twenty-six birds observed in the neighbouring Phœnix Group.‡ At present the revised list drawn up by Mr. A. J. North, consists of the following fifteen species :—

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* Gadow—Ibis (7), iv., Jan. 1898, p. 45.
† North—Rec. Aust. Mus., iii., June, 1898, p. 86.
‡ Lister—Proc. Zool. Soc., 1891, p. 300.

Urodynamis taitensis, *Sparrmann.*
Fregata aquila, *Linne.*
Demiegretta sacra, *Gmelin.*
Globicera pacifica, *Gmelin.*
Charadrius fulvus, *Gmelin.*
Totanus incanus, *Gmelin.*
Numenius taheiteneis, *Gmelin.*
Strepsilas interpres, *Linne.*
Limosa novæzealandiæ, *Gray.*
Anous stolidus, *Linne.*
Micranous leucocapillus, *Gould.*
Procelsterna caerulea, *Bennett.*
Sterna anaestheta, *Scopulinus.*
,, melanauchen, *Temminck.*
Gygis candida, *Gmelin.*

Class REPTILIA.

Chelone mydas, *Linne.*
Gymnodactylus pelagicus, *Girard.*
Gehyra oceanica, *Lesson.*
Lygosoma cyanurum, *Lesson.*
,, adspersum, *Steindachner.*

Class PISCES.

The following list includes the fishes of Funafuti as reported by Mr. E. R. Waite (*ante* pp. 181 – 201, and Supplement, *vide* Appendix). About a fifth of them appears in a list of fishes obtained at Rotuma by Mr. J. S. Gardiner.*

Epinephelus urodelus, *Cuvier and Valenciennes.*
,, leopardus, *Lacépède.*
,, tauvina, *Forskal.*
,, merra, *Bloch.*
,, fuscoguttatus, *Forskal.*
Grammistes sexlineatus, *Thunberg.*
Lutianus bengalensis, *Bloch.*
,, gibbus, *Forskal.*
,, fulviflamma, *Forskal.*
Zanclus cornutus, *Linne.*
Chætodon auriga, *Forskal.*
Mulloides flavolineatus, *Lacépède.*
,, samoensis, *Günther.*
Upeneus trifasciatus, *Lacépède.*
Lethrinus rostratus, *Cuvier and Valenciennes.*
,, ramak, *Forskal.*
Sphærodon grandoculis, *Forskal.*
Cirrhites maculatus, *Lacépède.*

* Boulenger—Ann. Mag. Nat. Hist. (6), xx., 1897, pp. 371 – 4.

Holocentrum erythræum, *Güuther.*
,, diploxiphus, *Günther.*
Teuthis rostrata, *Cuvier and Valenciennes.*
Histiophorus *sp.*
Acanthurus triostegus, *Linne.*
,, guttatus, *Forskal.*
,, blochii, *Cuvier and Valenciennes.*
,, achilles, *Shaw.*
Naseus lituratus, *Forskal.*
Caranx sanctæ helenæ, *Cuvier and Valenciennes.*
,, crumenopthalmus, *Bloch.*
Chorinemus sancti-petri, *Cuvier and Valenciennes.*
Trachynotus baillonii, *Lacépède.*
Thynnus pelamys, *Linne.*
Ruvettus pretiosus, *Cocco.*
Echeneis naucrates, *Linne.*
Gobius biocellatus, *Cuvier and Valenciennes.*
Salarias marmoratus, *Bennett.*
,, periopthalmus, *Cuvier and Valenciennes.*
,, quadricornis, *Cuvier and Valenciennes.*
Sphyræna *sp.*
Myxus leuciscus, *Günther.*
Tetradrachmum aruanum, *Bloch.*
Glyphidodon brownriggii, *Bennett.*
,, sordidus, *Forskal.*
,, septum-fasciatus, *Cuvier and Valeciennesn.*
Chilinus trilobatus, *Lacépède.*
,, fasciatus, *Bloch.*
Epibulus insidiator, *Pallas.*
Julis lunaris, *Linne.*
Pseudoscarus pulchellus, *Rüppell.*
,, bataviensis, *Bleeker.*
,, singapurensis, *Bleeker.*
,, troschelli, *Bleeker.*
Fierasfer homii, *Richardson.*
Platophrys pantherinus, *Rüppell.*
Belone platura, *Bennett.*
Hemirhamphus balinensis, *Bleeker.*
Exocætus *sp.*
Ophichthys colubrinus, *Boddaert.*
Muræna formosa, *Bleeker.*
,, buroënsis, *Bleeker.*
Balistes fuscus, *Bloch.*
,, flavomarginatus, *Rüppell.*
,, aculeatus, *Linne.*
Tetrodon nigropunctatus, *Bloch.*
,, margaritatus, *Rüppell.*
,, immaculatus, *Bloch.*
Dicotylichthys punctulatus, *Kaup.*

Carcharias lamia, *Risso.*
Galeocerdo rayneri, *M'Donald and Barron.*
Alopias vulpes, *Gmelin.*
Urogymnus asperrimus, *Bloch.*
Trygon *sp.*
Ceratoptera *sp.*

Class HEMICHORDA.

Ptychodera flava, *Eschscholtz.*
,, hedleyi, *Hill.*

Class CRUSTACEA.

Since the issue of the foregoing part of this Memoir dealing with the Crustacea, there has appeared a valuable series of articles by Mr. L. A. Borradaile* on Crustacea from the South Pacific, including those taken on Funafuti by Mr. J. S. Gardiner.

Mr. Borradaile conjectures that as *Pagurus setifer* is so closely allied to *P. guttatus*, the record of the latter from Funafuti may be a case of mistaken identity. Mr. Whitelegge, on re-examination of the example in question, maintains that it cannot be *P. setifer*, inasmuch as, among other characters, the left leg of the third pair in the Funafuti crab is setiferous all round and without sculpture; whereas both the description of Milne Edwards and the figure of Hilgendorf, confine the bristles to the margin of the leg of *P. setifer*. The identification was arrived at after comparison with examples of *P. setifer* from Mauritius and Fiji.

A *Lambrus* allied to *L. intermedius*, Miers, and possibly new, was dredged by Mr. G. Halligan at a depth of two hundred fathoms off Tutaga Islet, Funafuti.

A Cirriped, noted by Schmeltz from the Ellice,† *Lithothyra rhodiopus*, has also been included.

Lambrus *sp.*
Atergatis floridus, *Rumphius.*
Actæa rugata, *Adams and White.*
Xanthodes lamarckii, *Milne Edwards.*
,, nitidulus, *Dana.*
Zozymus æneus, *Dana.*
Daira perlata, *Herbst.*
Etisus laevimanus, *Randall.*
Etisodes caelatus, *Dana.*
Carpilodes margaritatus, *Milne Edwards.*
Pilumnus vestitus, *Haswell.*
,, prunosus, *Whitelegge.*

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* Borradaile—Proc. Zool. Soc., 1898, pp 32–38, 457–468, 1000–1015; and Ann. Mag. Nat. Hist. (7), ii., 1898, pp. 376–391.

† Schmeltz—Cat. Mus. Godeff., v., 1874, p. 83.

Actaeodes speciosa, *Dana.*
Phymodius monticulosus, *Dana.*
Pseudozius caystrus, *Adams and White.*
Leptodius exaratus, *Milne Edwards.*
,, sanguineus, *Milne Edwards.*
Ruppellia annulipes, *Milne Edwards.*
Eriphia scabricula, *Dana.*
,, laevimana, *Latreille.*
Trapezia cymodoce, *Herbst.*
,, ferruginea, *Latreille.*
Thalamita integra, *Dana.*
,, admete, *Herbst.*
Cardisoma hirtipes, *Dana.*
Ocypoda ceratophthalma, *Pallas.*
Gelasimus tetragonon, *Herbst.*
Metopograpsus messor, *Forskal.*
Grapsus maculatus, *Catesby.*
Geograpsus crinipes, *Dana.*
Leiolophus planissimus, *Herbst.*
Calappa hepatica, *Linne.*
Cryptodromia japonica, *Henderson.*
Remipes pacificus, *Dana.*
Birgus latro, *Linne.*
Cenobita olivieri, *Owen.*
,, clypeata, *Milne Edwards.*
,, perlata, *Milne Edwards.*
,, rugosa, *Milne Edwards.*
,, ,, *var.* pulchra, *Dana.*
Diogenes pallescens, *Whitelegge.*
Pagurus fabimanus, *Dana.*
,, setifer, *Milne Edwards.*
,, guttatus, *Olivier.*
,, euopsis, *Dana.*
Clibanarius virescens, *Dana.*
,, corallinus, *Milne Edwards.*
Clibanarius æquabilis, *Dana.*
,, zebra, *Dana.*
,, cruentatus, *Milne Edwards.*
Calcinus elegans, *Milne Edwards.*
,, gaimardi, *Milne Edwards.*
,, latens, *Randall.*
,, herbsti, *de Man.*
,, ,, *var.* lividus, *Milne Edwards.*
Aniculus typicus, *Fabricius.*
Galathea affinis, *Ortmann.*
Petrolisthes lamarckii, *Leach.*
,, ,, *var.* asiaticus, *Leach.*
,, ,, *var.* rufescens, *Heller.*
,, ,, *var.* fiimbriatus, *Borradaile.*

Porcellana sollasi, *Whitelegge.*
Ibacus antarcticus, *Rumphius.*
Palinurus guttatus, *Latreille.*
Palæmonella tridentata, *Borradaile.*
Hippolyte gibberosus, *Milne Edwards.*
Saron marmoratus, *Olivier.*
Athanas sulcatipes, *Borradaile.*
Alphæus edwardsii, *Audouin.*
,, laevis, *Randall.*
,, strenuus, *Dana.*
,, parvirostris, *Dana.*
,, collumianus, *Stimpson.*
,, frontalis, *Say.*
,, prolificus, *Bate.*
,, funafutensis, *Borradaile.*
Betaeus minutus, *Whitelegge.*
Periclimenes danae, *Stimpson.*
Coralliocaris brevirostris, *Borradaile.*
Anchistus miersi, *de Man.*
Callianidea typa, *Milne Edwards.*
Gondactylus chiragra, *Fabricius.*
Pseudosquilla ciliata, *Fabricius.*
Cirolana latystylis, *Dana.*
Athelgue aniculi, *Whitelegge.*
Lithotrya nicobarica, *Reinhardt.*
,, rhodiopus, *Gray.*

Class Arachnida.

Since the publication of the preceding account (pp. 89 – 124) of the Spiders and Insects of Funafuti, Mr. R. I. Pocock has dealt with the series simultaneously collected by Messrs. Sollas and Gardiner, which embraced forms not procured by Mr. Hedley.* Mr. Pocock differs from Mr. Rainbow in sundry matters of species and genera. In the determination of the Scorpion, the latter accepts his correction, but he maintains the specific status of the various Spiders disputed by Mr. R. I. Pocock. Though the two names, *Obisium antipodum*, Simon, and *Olpium longiventer*, Keyserling, probably refer to one species, both provisionally appear in the following list. This under Mr. Rainbow's guidance, has been compiled from the two articles mentioned. It therefore represents his latest opinion on the subject. Included are also the Lepidoptera previously recorded from the Archipelago by Butler; two beetles, *Ceresium simplex* and *Sphenophorus obscurus*, taken by Mr. A. E. Finckh on Funafuti, in 1898; and a series of ants, noted from the Ellice by Mayr.† One of the new beetles discovered at

* R. I. Pocock—Ann. Mag. Nat. Hist. (7), i., 1898, pp. 321 – 326.
† Mayr—Journ. Mus. Godeff., xii., 1876, p. 56 – 115.

Funafuti, has lately been re-taken at Fife Bay, British New Guinea.* The *Ceresium* occurs at Norfolk Island.

Hormurus australasiæ, *Fabricius*.
Garypus longidigitatus, *Rainbow*.
Obisium antipodum, *Simon*.
Olpium longiventer, *Keyserling*.
Araneus theis, *var*. mangareva, *Walckenaer*.
,, plebeja, *L. Koch*.
,, ventricosa, *Rainbow*.
,, longispina, *Rainbow*.
,, etheridgei, *Rainbow*.
,, festiva, *Rainbow*.
,, obscura, *Rainbow*.
,, annulipes, *Rainbow*.
,, distincta, *Rainbow*.
,, hoggi, *Rainbow*.
,, speciosa, *Rainbow*.
Tetragnatha laqueata, *L. Koch*.
,, panopea, *L. Koch*.
Uloborus geniculatus, *Olivieri*.
Dictis striatipes, *L. Koch*.
Clubiona alveolata, *L. Koch*.
Heteropoda venatoria, *Linne*.
Sarotes debilis, *L. Koch*.
Acompse suavis, *L. Koch*.
Ascyltus pterygodes, *L. Koch*.
Hyllus ferox, *Rainbow*.
,, audax, *Rainbow*.
Oribata lamellata, *Rainbow*.

Class MYRIOPODA.

Scolopendra morsicans, *Linne*.
Otostigmus astenon, *Kohlrausch*.
Mecistocephalus punctifrons, *Newport*.
Orphmaeus phosphoreus, *Linne*.
Trichocambala sollasi, *Pocock*.

Class INSECTA.

Monocrepidius ferrugineus, *Montrouzier*.
,, umbraculatus, *Candèze*.
Uloma cavicollis, *Fairm*.
,, insularis, *Guérin*.
Sphenophorus sulcipes, *Karsch*.
,, obscurus, *Boisduval*.
Elytrurus squamatus, *Rainbow*.
Nacerdes transmarina, *Rainbow*.

* Rainbow—Proc. Linn. Soc. N.S.W., xxiii., 1898, p. 365.

Ceresium simplex, *Gyllenhal.*
Concephalus ensiger, *Harold.*
Panesthia aethops, *Stoll.*
Loboptera decipiens, *Germain.*
Arachnocephalus vestitus, *Costa.*
Calotermes marginipennis, *Latreille.*
Megachile hedleyi, *Rainbow.*
Camponotus novæhollandiæ, *Mayr.*
Prenolepis vividula, *Nylander.*
Plagiolepis gracilis, *Smith.*
Meranoplus oceanicus, *Smith.*
,, pubescens, *Smith.*
Pheidole sexspinosa, *Mayr.*
,, oceanica, *Mayr.*
Euphloea eleutho, *Quoy and Gaimard.*
,, distincta, *Butler.*
Junonia vellida, *Fabricius.*
Diadema nerina, *Fabricius.*
,, otaheitæ, *Felder.*
Deiopea pulchella, *Linne.*
Achæa melicerte, *Drury.*
Remigia translata, *Walker.*
Chloanges suralis, *Zeller.*
Amyna octo, *Guènèe.*
Erilita modestalis, *Lederer.*
Rinecera mirabilis, *Butler.*
Harpagoneura complexa, *Butler.*
Halobates *sp.*
Culex hispiodosus, *Skuse.*
Megarrhina inornata, *Walker.*
Lispe vittata, *Rainbow.*
Degeeria dawsoni, *Rainbow.*
Ebenia nigricruris *Rainbow.*
,, fieldi, *Rainbow.*

Class MOLLUSCA.

Loligo brevipinnis, *Pfeffer.*
Octopus tonganus, *Hoyle.*
Scissurella æquatoria, *Hedley.*
Schisomope plicata, *Hedley.*
Haliotis stomatiæformis, *Reeve.*
,, ovina, *Chemnitz.*
Emarginula clathrata, *Pease.*
,, mariei, *Crosse.*
Acmæa saccharina, *Linne.*
Phenacolepas senta, *Hedley.*
Trochus obeliscus, *Gmelin.*
,, tubiferus, *Kiener.*
,, atropurpureus, *Gould.*

Trochus fastigatus, *A. Adams.*
Gibbula concinna, *Dunker.*
,, phasianella, *Deshayes.*
Monilea lifuana, *Fischer.*
,, tragema, *Melvill and Standen.*
Euchelus instrictus, *Gould.*
Teinostoma qualum, *Hedley.*
,, parvulum, *Hedley.*
,, rotatum, *Hedley.*
,, tricarinatum, *Melvill and Standen.*
Cirsonella ovata, *Hedley.*
Liotia crenata, *Kiener.*
,, *sp.*
,, *sp.*
,, parvissima, *Hedley.*
Mecoliotia halligani, *Hedley.*
Phasianella wisemanni, *Baird.*
,, minima, *Melvill.*
Stomatella sanguinea, *A. Adams.*
Stomatia phymotis, *Helbling.*
Gena rosacea, *Pease.*
Turbo petholatus, *var.* caledonicus, *Fischer.*
,, setosus, *Gmelin.*
,, argyrostomus, *Linne.*
Astralium petrosum, *Martyn.*
Leptothyra laeta, *Montrouzier.*
Delphinula lacinata, *Lamarck.*
Neritopsis radula, *Linne.*
Nerita albicilla, *Linne.*
,, maxima, *Chemnitz.*
,, plicata, *Linne.*
,, polita, *Linne.*
,, insculpta, *Recluz.*
Neritina reticulata, *Sowerby.*
Helicina musiva, *var.* rotundata, *Mousson.*
Eulima pyramidalis, *A. Adams.*
,, samoensis, *Crosse.*
,, diaphana, *Hedley.*
,, decipiens, *Hedley.*
Stylifer varicifer, *Hedley.*
Odontostomia bulimoides, *Souverbie.*
,, rubra, *Pease.*
,, robusta, *Hedley.*
,, biplicata, *Hedley.*
Pyramidella dolabrata, *var.* terebelloides, *A. Adams.*
,, turrita, *A. Adams.*
,, mitralis, *A. Adams.*

Obtortio pyrrhacme, *Melvill and Standen.*
Scala revoluta, *Hedley.*
„ paumotensis, *Pease.*
„ subauriculata, *Souverbie.*
„ ovalis, *Sowerby.*
Scaliola lapillifera, *Hedley.*
Ianthina *sp.*
Natica violacea, *Sowerby.*
„ marochiensis, *Gmelin.*
„ mamilla, *Linne.*
„ melanostoma, *Gmelin.*
„ umbilicata, *Quoy and Gaimard.*
Vanikoro gueriniana, *Recluz.*
Capulus intortus, *Lamarck.*
„ violaceus, *Angas.*
Hipponyx australis, *Quoy.*
Mitrularia equestris, *var.* tortilis, *Reeve.*
Truncatella valida, *Pfeiffer.*
Omphalotropis zebriolata, *Mousson.*
Assiminea nitida, *Pease.*
Rissoa invisibilis, *Hedley.*
„ finckhi, *Hedley.*
„ poolei, *Hedley.*
Rissoina exasperata, *Souverbie.*
„ gemmea, *Hedley.*
„ polytropa, *Hedley.*
„ plicata, *Adams.*
„ ambigua, *Gould.*
„ affinis, *Garrett.*
Diala virgata, *Hedley.*
„ hardyi, *Melvill and Standen.*
„ profunda, *Hedley.*
Solarium hybridum, *Linne.*
Heliacus discoideus, *Pease.*
Littorina obesa, *Sowerby.*
Modulus tectum, *Gmelin.*
Risella conoidalis, *Pease.*
Plesiotrochus souverbianus, *Fischer.*
Fossarus lamellosus, *Montrouzier.*
Planaxis sulcatus, *Born.*
„ lineatus, *Da Costa.*
Melania mageni, *Gassies.*
Caecum vertebrale, *Hedley.*
„ exile, *De Folin.*
„ gulosum, *Hedley.*
„ amaltheanum, *Hedley.*
„ legumen, *Hedley.*

Vermetus maximus, *Sowerby.*
,, *sp.*
Turritella concava, *Martens.*
Strombus lentiginosus, *Linne.*
,, floridus, *Lamarck.*
,, dentatus, *var.* rugosus, *Sowerby.*
,, hæmastoma, *Sowerby.*
,, terebellatus, *Sowerby.*
,, gibberulus, *Linne.*
,, samar, *Dillwyn.*
,, luhuanus, *Linne.*
Pterocera aurantia, *Lamarck.*
,, byronia, *Gmelin.*
,, rugosa, *Sowerby.*
Terebellum subulatum, *Lamarck.*
Cerithium nodulosum, *Bruguière.*
,, columna, *Sowerby.*
,, citrinum, *Sowerby.*
,, echinatum, *Lamarck.*
,, maculosum, *Mighels.*
,, rostratum, *Sowerby.*
,, oceanicum, *Hedley.*
,, breve, *var.* ellicense, *Hedley.*
,, spiculum, *Hedley.*
,, strictum, *Hedley.*
,, variegatum, *Quoy and Gaimard.*
,, zebrum, *Kiener.*
,, impendens, *Hedley.*
,, piperitum, *Sowerby.*
,, obeliscus, *Bruguière.*
,, ,, *var.* cedo-nulli, *Sowerby.*
,, asperum, *Linne.*
,, pharos, *Hinds.*
,, elegantissimum, *Hedley.*
Contumax decollatus, *Hedley.*
Cerithiopsis eutrapela, *Melvill and Standen.*
,, electrina, *Hedley.*
Triforis dolicha, *Watson.*
,, aegle, *Jousseaume.*
,, torquatus, *Hedley.*
,, ruber, *Hinds.*
,, clio, *Hedley.*
,, obesula, *Jousseaume.*
,, thetis, *Hedley.*
,, incisus, *Pease.*
,, corrugatus, *Hinds.*
,, asperrimus, *Hinds.*
,, *spp.*

Ovula hervieri, *Hedley.*
Cypræa argus, *Linne.*
„ scurra, *Chemnitz.*
„ testudinaria, *Linne.*
„ isabella, *Linne.*
„ carneola, *Linne.*
„ „ *var.* propinqua, *Garrett.*
„ talpa, *Linne.*
„ goodalli, *Gray.*
„ fimbriata, *Gmelin.*
„ macula, *Adams.*
„ mauritiana, *Linne.*
„ caput-serpentis, *Linne.*
„ mappa, *Linne.*
„ arabica, *Linne.*
„ reticulata, *Martyn.*
„ moneta, *Linne.*
„ „ *var.* annulus, *Linne.*
„ tigris, *Linne.*
„ vitellus, *Linne.*
„ lynx, *Linne.*
„ clandestina, *var.* artuffeli, *Jousseaume.*
„ cribraria, *Linne.*
„ becki, *Gaskoin.*
„ erosa, *Linne.*
„ poraria, *Linne.*
„ helvola, *Linne.*
„ cicercula, *Linne.*
„ nucleus, *Linne.*
„ childreni, *Gray.*
Trivia oryza, *Lamarck.*
Dolium perdix, *Linne.*
„ pomum, *Linne.*
Cassis cornuta, *Linne.*
„ vibex, *var.* erinacea, *Linne.*
Tritonium tritonis, *Linne.*
„ pileare, *Linne.*
„ chlorostomum, *Lamarck.*
„ gemmatum, *Reeve.*
„ digitale, *Reeve.*
„ tuberosum, *Lamarck.*
„ maculosum, *Gmelin.*
Distortrix anus, *Linne.*
Gyrineum bufonium, *Gmelin.*
„ affine, *Broderip.*
Peristernia nassatula, *Lamarck.*
Latirus polygonus, *var.* barclayi, *Reeve.*
„ craticulatus, *Linne.*

Pisania fasciculata, *Reeve.*
Cantharus undosus, *Linne.*
Murex ramosus, *Linne.*
,, adustus, *Lamarck.*
,, funafutiensis, *Hedley.*
,, radula, *Hedley.*
Purpura hippocastaneum, *Lamarck.*
,, armigera, *Chemnitz.*
Jopas sertum, *Bruguière.*
Sistrum hystrix, *Linne.*
,, horridum, *Lamarck.*
,, ricinus, *Linne.*
,, morus, *Lamarck.*
,, digitatum, *Lamarck.*
,, tuberculatum, *Blainville.*
,, cancellatum, *Quoy.*
,, fiscellum, *Chemnitz.*
Coralliophila coronata, *Barclay.*
Galeropsis madreporarum, *Sowerby.*
Magilus antiquus, *Lamarck.*
Nassa semitexta. *Hedley.*
,, granifera, *Kiener.*
Columbella varians, *Sowerby.*
,, galaxias, *Reeve.*
,, melvilli, *Hedley.*
,, alofa, *Hedley.*
,, obtusa, *Sowerby.*
,, tringa, *Lamarck.*
,, rubicunda, *Quoy and Gaimard.*
Engina parva, *Pease.*
,, nodicostata, *Pease.*
,, mendicaria, *Linne.*
Mitra episcopalis, *Linne.*
,, pontificalis, *Lamarck.*
,, flammea *var.* hystrix, *Montrouzier.*
,, cucumerina, *Lamarck.*
,, chrysalis, *Reeve.*
,, tabanula *var.* caledonica, *Recluz.*
,, ferruginea, *Lamarck.*
,, acuminata. *Swainson.*
,, brunnea, *Pease.*
,, astricta, *Reeve.*
,, limbifera, *Lamarck.*
,, litterata, *Lamarck.*
,, paupercula, *Linne.*
,, virgata, *Reeve.*
Turricula gruneri, *Reeve.*
,, exasperata, *Chemnitz.*

Turricula angulosa, *Kuster.*
,, variata, *Reeve.*
,, nodosa, *Swainson.*
,, pilsbryi, *Hedley.*
Cylindra dactylus, *Linne.*
Erato schmeltziana, *Crosse.*
Marginella sandwicensis, *Pease.*
,, iota, *Hedley.*
,, peasii, *Reeve.*
,, isseli, *var.* ellicensis. *Hedley.*
Olivella simplex, *Pease.*
Oliva guttata, *Lamarck.*
,, irisans, *var.* erythrostoma, *Lamarck.*
Harpa minor, *Lamarck.*
,, gracilis, *Broderip and Sowerby.*
Drillia unizonalis, *Lamarck.*
Glyphostoma purpurascens, *Dunker.*
,, aliceæ, *Melvill and Standen.*
,, ,, *var.* tenera, *Hedley.*
,, malleti, *Recluz.*
Thetidos morsura, *Hedley.*
Mangilia himerta, *Melvill and Standen.*
Clathurella lactea, *Reeve.*
,, clandestina, *Deshayes.*
,, apicalis, *Montrouzier.*
,, irretita, *Hedley.*
Daphnella delicata, *Reeve.*
,, lymneiformis, *Kiener.*
,, pupoidea, *H. Adams.*
,, thiasotes, *Melvill and Standen.*
Conus literatus, *Linne.*
,, tessellatus, *Born.*
,, pulicarius, *Hwass.*
,, hebraeus, *Linne*
,, ,, *var.* vermiculatus, *Hwass.*
,, ceylonensis, *Hwass.*
,, vexillum, *Gmelin.*
,, rattus, *Hwass.*
,, capitaneus, *Linne.*
,, lividus, *Hwass.*
,, ,, *var.* flavidus, *Lamarck.*
,, vitulinus, *Hwass.*
,, catus, *Hwass.*
,, nussatella, *Linne.*
,, striatus, *Linne.*
,, geographus, *Linne.*
,, tulipa, *Linne.*
,, auratus, *Linne.*

Terebra crenulata, *Linne.*
„ dimidiata, *Linne.*
„ maculata, *Linne.*
„ subulata, *Linne.*
„ tigrina, *Gmelin.*
„ affinis, *Gray.*
Pterosoma plana, *Lesson.*
Atlanta gibbosa, *Eydoux and Souleyet.*
„ turriculata, *D'Orbigny.*
„ guidichaudi, *Eydoux and Souleyet.*
Solidula sulcata, *Gmelin.*
Tornatina voluta, *Quoy and Gaimard.*
„ hadfieldi, *Melvill and Standen.*
„ leptekes, *Watson.*
Retusa waughiana, *Hedley.*
Atys cylindrica, *Hebling.*
„ hyalina, *Watson.*
„ dentifera, *A. Adams.*
„ dactylus, *Hedley.*
Cylichna erecta, *Hedley.*
Haminea vitrea, *A. Adams.*
Cylindrobulla sculpta, *Nevill.*
Akera aperta, *Hedley.*
Hydatina amplustre, *Linne.*
„ physis, *Linne.*
Ringicula parvula, *Hedley.*
„ incisa, *Hedley.*
„ *sp.*
Limacina inflata *D'Orbigny.*
„ bulimodes, *D'Orbigny.*
Clio virgula, *Rang.*
„ acicula, *Rang.*
„ striata, *Rang.*
„ subula, *Quoy and Gaimard.*
„ pyramidata, *Linne.*
Cuvierina columella, *Rang.*
Cavolinia quadridentata, *Lesueur.*
„ longirostris, *Lesueur.*
„ inflexa, *Lesueur.*
Agadina stimpsoni, *A. Adams.*
Elysia nigropunctata, *var.* sanguinea, *Hedley.*
Phyllidia varicosa, *Lamarck.*
Plecotrema bellum, *H. and A. Adams.*
„ mordax, *Dohrn.*
Melampus fasciatus, *Deshayes.*
„ luteus, *Quoy and Gaimard.*
Tornatellina oblonga, *Pease.*
„ conica, *Mousson.*

Vertigo pediculus, *Shuttleworth.*
Stenogyra gracilis, *Hutton.*
Endodonta modicella, *Ferussac.*
,, decemplicata, *Mousson.*
Trochonanina samoensis, *Mousson.*
Dentalium lessoni, *Deshayes.*
Cadulus aratus, *Hedley.*
Anomia *sp.*
Arca zebra, *Swainson.*
,, maculata, *Sowerby.*
,, reticulata, *Gmelin.*
,, velata, *Sowerby.*
,, tenella, *Reeve.*
,, congenita, *Smith.*
,, pteroessa, *Smith.*
Limopsis davidi, *Hedley.*
Septifer excisus, *Wiegman.*
Modiola australis, *Gray.*
Lithophaga teres, *Philippi.*
,, levigata, *Quoy and Gaimard.*
Plicatula imbricata, *Menke.*
Spondylus ocellatus, *Reeve.*
Lima bullata, *Sowerby.*
,, tenera, *Chemnitz.*
,, squamosa, *Lamarck.*
,, angulata, *Sowerby.*
,, fragilis, *Gmelin.*
Limea pectinata, *H. Adams.*
Pecten squamatus, *Gmelin.*
,, pallium, *Linne.*
,, distans, *Reeve.*
,, madreporarum, *Sowerby.*
,, speciosus, *Reeve.*
Hinnites *sp.*
Pteria peasei, *Dunker.*
,, cumingii, *Reeve.*
Melina samoensis, *Baird.*
Pinna *sp.*
Ostrea hanleyana, *Sowerby.*
,, cristagalli, *Linne.*
Cardita sweeti, *Hedley.*
Lucina exasperata, *Reeve.*
,, punctata, *Linne.*
,, divergens, *Philippi.*
,, oblonga, *Hedley.*
Corbis fimbriata, *Linne.*
Cryptodon globosum, *Forskal.*
Tellina rugosa, *Born.*

Tellina scobinata, *Linne.*
,, flammula, *Deshayes.*
,, dispar, *Conrad.*
,, obliquaria, *Deshayes.*
,, rhomboides, *Quoy and Gaimard.*
,, robusta, *Hanley.*
,, opalina, *Sowerby.*
,, fijiensis, *Sowerby.*
,, crebrimaculata, *Sowerby.*
,, ellicensis, *Hedley.*
Libitina guinaica, *Lamarck.*
Circe pectinata, *Linne.*
,, picta, *Lamarck.*
,, castrensis, *Linne.*
Cytherea obliquata, *var.* prora, *Conrad.*
,, subpellucida, *Sowerby.*
Venus toreuma, *Gould.*
,, puerpera, *var.* listeri, *Gray.*
Venerupis macrophylla, *Deshayes.*
Naranio lapicida, *Chemnitz.*
Crassatella *sp.*
Kellya pacifica, *Hedley.*
Scintilla semiclausa, *Sowerby.*
Atactodea striata, *Gmelin.*
Asaphis deflorata, *Linne.*
Psammobia squammosa, *Lamarck.*
Cardium angulatum, *Lamarck.*
,, maculosum, *Wood.*
,, cardissa, *var.* dionæum, *Sowerby.*
,, fragrum, *Linne.*
,, ,, *var.* sueziense, *Issel.*
Tridacna gigas, *var.* squamosa, *Lamarck.*
,, elongata, *Lamarck.*
Chama imbricata, *Broderip.*
,, spinosa, *Broderip.*
,, unicornis, *Bruguière.*
Corbula taheitensis, *Lamarck.*
Gastrochæna lamellosa, *Deshayes.*
Nausitoria aurita, *Hedley.*
Tonicia *sp.*

Class Brachiopoda.

Thecidea maxilla, *Hedley.*

Class Echinodermata.

To the Echinodermata enumerated in the body of this work there are added in the following list the species collected by

J. S. Gardiner, and determined by F. P. Bedford and F. J. Bell.* A sea-urchin, believed to be *Metalia sternalis*, Gray, was occasionally found dead at high-water mark on the beaches of the leeward islets of Funafuti, but as no specimens were preserved for exact identification, it is not here included. A starfish dredged off the north-west corner of Funafuti, at a depth of one hundred and thirty fathoms by H.M.S. "Penguin," which was, in life, bordered by segments of brick-red and yellow-red, size R. 30 mm., has been presented to the Australian Museum by Lieutenant A. Waugh, R.N. This has been determined by Mr. Whitelegge as probably an immature example of *Nardoa gomophia*, Perrier, originally described from New Caledonia.†

Echinothrix diadema, *Linne*.
,, turcarum, *Schynvoet*.
Heterocentrotus mamillatus, *Klein*.
Echinometra lucunter, *Leske*.
,, oblonga, *Blainville*.
Echinus angulosus, *Leske*.
Laganum depressum, *Lesson*.
Echinoneus cyclostomus, *Leske*.
Maretia planulata, *Lamarck*.
Ophidiaster cylindricus, *Lamarck*.
Linckia pacifica, *Gray*.
Nardoa gomophia, *Perrier*.
Culcita acutispina, *Bell*.
Ophiactis savignii, *Muller and Troschel*.
Ophiocoma scolopendrina, *Agassiz*.
,, erinaceus, *Muller and Troschel*.
Ophiarthrum elegans, *Peters*.
Mulleria echinites, *Jaeger*.
,, parvula, *Selenka*.
Holothuria argus, *Jaeger*.
,, atra, *Jaeger*.
,, ,, *var*. amboinensis, *Semper*.
,, vagabunda, *Selenka*.
,, maculata, *Brandt*.
,, imitans, *Ludwig*.
Chiridota intermedia, *Bedford*.
Synapta ooplax, *Marenzeller*.

Class ANNELIDA.

Eurythoe complanata, *Pallas*.
,, pacifica, *var*. levukænsis, *McIntosh*.
Phyllodoce *sp*.
Perichæta grubei, *Rosa*.
,, *sp*.

* Bedford and Bell—Proc. Zool. Soc., 1898, pp. 834–850.
† Perrier—Archiv. Zool. Exper., iv., 1875, p. 431.

Class GEPHYREA.

To the list of Gephyrean worms recorded by A. E. Shipley from Funafuti,* has been added *A. steenstrupii*, identified (*ante* p. 394) by Mr. Whitelegge. The distribution of most of these has been further elucidated by Shipley in a Report on the Willey Collection.†

Sipunculus vastatus, *Selenka and Bulow.*
,, funafuti, *Shipley.*
Physcosoma nigrescens, *Keferstein.*
,, pacificum, *Keferstein.*
,, scolops, *Selenka and de Man.*
,, varians, *Keferstein.*
,, microdontodon, *Sluiter.*
,, dentigerum, *Selenka and de Man.*
Aspidosiphon elegans, *Chamisso and Eysenhardt.*
,, steenstrupii, *Diesing.*
,, klunzingeri, *Selenka and Bulow.*
Cloeosiphon aspergillum, *Quatrefages.*

Class PORIFERA.

Reniera australis, *Lendenfeld.*
,, *sp.*
Halichondria solida *var.* rugosa, *Ridley and Dendy.*
Spinosella glomerata, *Whitelegge.*
Gellius aculeatus, *Whitelegge.*
Clathria pellicula, *Whitelegge.*
Agelas gracilis, *Whitelegge.*
Echinodictyum asperum, *Ridley and Dendy.*
Acanthella stipitata, *Carter.*
,, pulcherrima, *Ridley and Dendy.*
Ciocalypta incrustans, *Whitelegge.*
Polymastia dendyi, *Whitelegge.*
Spirastrella papillosa, *Ridley and Dendy.*
Euspongia irregularis *var.* silicata, *Lendenfeld.*
Hippospongia dura, *Lendenfeld.*
Spongelia fragilis *var.* irregularis, *Lendenfeld.*

Class HYDROZOA.

A dead specimen of *Distichopora rosea* was collected on the beach but was overlooked in packing. Some notes on *Millepora* from Funafuti have been published by Prof. S. J. Hickson.‡

Thuiaria divergens, *Whitelegge.*
Aglaophenia clavicula, *Whitelegge.*
Millepora squarrosa, *Lamarck.*
,, platyphylla, *Ehrenberg.*

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* Shipley—Proc. Zool. Soc., 1898, pp. 468–473.
† Willey—Zoological Results, part 2, 1899, p. 151–158.
‡ Hickson—Proc. Zool. Soc., 1898, p. 828.

Millepora nodosa, *Esper.*
,, tortuosa, *Dana.*
Distichopora rosea, *Kent.*
Physalia megalista, *Lamarck.*

Class SCYPHOZOA.

Aurelia clausa, *Lesson.*
Polyrhiza orithyia, *Haeckel.*

Class ACTINOZOA.

The following list of Actinozoa is compiled from different sources under the supervision of Mr. Whitelegge, whose papers in this volume (pp. 213 - 225, 307 - 320, 349 - 368, and 384 - 391) have formed the basis. With these have been incorporated information from the articles of J. S. Gardiner and I. L. Hiles.*

In some prefatory notes to the Mollusca, it was remarked that the high proportion of novelties to the mass of previously known forms should not be mistaken for an indication of endemic importance, but should be ascribed to the imperfection of our knowledge of the continental faunas. This statement has received support from the Gorgonidæ in the brief time that has elapsed since it was written. *Keroeides gracilis* has been retaken by Willey in New Guinea, *Villogorgia rubra* by Willey in the Loyalty Islands, *Acamptogogia spinosa* by Willey in New Britain, *Lobophytum hedleyi* and *L. densum* by Hedley in New Caledonia.

Some giant specimens of a white Sea Anemone, ten inches in diameter, were observed on Funafuti, but defied any effort to remove them and are hence unnoted in the following list.

The specific identification of Reef Corals is regarded by the highest authorities as a matter of extreme uncertainty. H. M. Bernard wrote :—"The only specimens which can be claimed with absolute certainty as specifically identical are a few which have in each case been gathered at the same place and time, and resemble one another as closely as if they were two fragments of one and the same stock. Beyond these no certainty exists, and strict regard to the variations of form and structure would compel us to label all the remaining specimens as different varieties or species."† To maintain such a position means chaos. Either we must, as Bernard proceeds to suggest, "break loose from the restraint of the Linnean species," or deal with the group on the broader lines on which Hickson has lately dealt with the *Heliopora* and *Millepora.*

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* Gardiner—Proc. Zool. Soc., 1897, pp. 941 - 953; Idem 1898, pp. 257 - 276, 525 - 539, and 994 - 1000; Hiles, in Willey, Zoological Results, part 2, 1899, pp. 195 - 204.

† Bernard—Cat. Madreporarian Corals Brit. Mus.. 1896, p. 20.

Finding ourselves unable to reconcile the species enumerated by Whitelegge and Gardiner the results arrived at by each are given in parallel columns.

Sarcophytum glaucum, *Quoy and Gaimard.*
,, trochoheliophorum *var.* amboinense, *Marenzeller.*
,, latum, *Dana.*
Lobophytum pauciflorum *var.* validum, *Marenzeller.*
,, hedleyi, *Whitelegge.*
,, marenzelleri, *Wright and Studer.*
,, tuberculosum, *Quoy and Gaimard.*
,, confertum, *Dana.*
,, densum, *Whitelegge.*
,, viride, *Quoy and Gaimard.*
Spongodes pallida, *Whitelegge*
,, curvicornis, *Wright and Studer.*
Siphonogorgia godeffroyi, *Kolliker.*
,, pallida, *Studer.*
,, kollikeri, *Wright and Studer.*
,, macrospina, *Whitelegge.*
Heliopora cærulea, *Pallas.*
Keroides gracilis, *Whitelegge.*
Acamptogorgia spinosa, *Hiles.*
Acanthogorgia breviflora, *Whitelegge.*
Acanthomuricea simplex, *Whitelegge.*
Villogorgia flagellata, *Whitelegge.*
,, intricata, *Gray.*
,, ruber, *Hiles.*
Bebryce studeri, *Whitelegge.*
Muricella purpurea, *Whitelegge.*
Plexaura antipathes, *Esper.*
Nicella laxa, *Whitelegge.*
Verrucella flabellata, *Whitelegge.*
Antipathella brookii, *Whitelegge.*
Zoanthus funafutiensis, *Hill and Whitelegge.*
Gemmaria willeyi, *Hill and Whitelegge.*
Palythoa howesi, *Haddon and Shackleton.*
,, kochii, *Haddon and Shackleton.*
,, coesia, *Dana.*

Reef Corals

Reported from Funafuti by,—

Whitelegge.	*Gardiner.*
Caryophylla clavus *var.* epitheata, *Duncan.*	Rhizotrochus, *sp.*
Stylophora digitata, *Pallas.*	Stylophora digitata, *Pallas.*
	,, flabellata, *Quelch.*
	,, compressa, *Gardiner.*
	,, rugosa, *Gardiner.*

Whitelegge.	*Gardiner.*
	Stylophora pistillata, *Esper.*
	,, palmata, *Blainville.*
	,, lobata, *Gardiner.*
Pocillopora grandis, *Dana.*	Pocillopora, grandis, *Dana.*
,, caespitosa, *Dana.*	,, glomerata, *Gardiner.*
,, verrucosa, *E. & Sol.*	,, rugosa, *Gardiner.*
	,, mæandrina, *Dana.*
	,, squarrosa, *Dana.*
	,, aspera, *Verrill.*
	,, ,, *var.* danæ, *V.*
	,, ,, *var.* ligulata, *Dana.*
	,, favosa, *Ehrenberg.*
	,, clavaria, *Ehrenberg.*
	,, brevicornis, *Lam.*
	,, septata, *Gardiner.*
	,, suffruticosa, *Verrill.*
	,, paucistella, *Quelch.*
	Seriatopora conferta, *Quelch.*
	,, spinosa, *Ed. & Haime.*
Mussa costata, *Dana.*	
Coeloria esperi, *Edw. and H.*	
Hydnophora microconia, *Lam.*	
Astræa versipora, *Dana.*	
,, danæ, *Edw. and H.*	
,, denticulata, *E. and Sol.*	
Acanthastræa patula, *Dana.*	
,, echinata, *Dana.*	
Leptastræa solida, *Edw. and H.*	
,, transversa, *Klunz.*	
Cyphastræa danæ, *Edw. and H.*	
Pavonia repens, *Bruggeman.*	Pavonia repens, *Bruggeman.*
,, explanata, *Lamarck.*	
Psammocera contigua, *Esp.*	Psammocera contigua, *Esp.*
,, fossata, *Dana.*	,, haimeana, *Ed. & H.*
	,, superficialis, *Gard.*
	,, savigniensis, *Gard.*
Oxypora *sp.*	
Fungia tenuidens, *Quelch.*	
,, discus, *Dana.*	
	Halomitra irregularis, *Gardiner.*
	Herpolitha crassa, *Gardiner.*
Madreporaria fruticosa, *Brook.*	Madreporaria fruticosa, *Brook.*
,, syringodes, *Brook.*	,, crateriformis, *Gardiner.*
,, spicifera, *Dana.*	,, secunda, *Dana.*
,, botryodes, *Brook* *var.* funafutiensis, *Whitelegge.*	,, scabrosa, *Quelch.*
	,, reticulata, *Brook.*

Whitelegge.	*Gardiner.*
Madreporaria patula, *Brook.*	Madreporaria profunda, *Gard.*
,, efflorescens, *Dana.*	,, surculosa, *Dana.*
,, eurystoma, *Klunz.*	,, latistella, *Brook.*
,, spinulifera, *Whitelegge.*	,, sinensis, *Brook.*
,, impressa, *Whitelegge.*	,, cuneata, *Dana.*
	,, bæodactyla, *Brook.*
	,, loripes, *Brook.*
	,, angulata, *Quelch.*
Astræopora incrustans, *Bernard.*	Astræopora listeri, *Bernard.*
,, ocellata, *Bernard.*	,, tabulata, *Gardiner.*
,, hirsuta, *Bernard*	,, ovalis, *Bernard.*
Montipora verrucosa, *Dana.*	Montipora verrucosa, *Lamarck.*
,, foveolata, *Dana.*	,, profunda, *Bernard.*
,, tuberosa, *Klunzinger.*	,, caliculata, *Dana, var.* piriformis, *Bernard.*
,, scabricula, *Dana.*	,, saxea, *Bernard.*
,, exserta, *Quelch.*	,, incognita, *Bernard.*
	,, granifera, *Bernard.*
Porites lutea, *Edw. and H.*	Porites arenosa, *Esper.*
,, lichen, *Dana.*	,, ,, *var.* lutea, *E.&H.*
,, lobata, *Dana.*	,, ,, *var.* parvicellata, *Gardiner.*
,, crassa, *Quelch.*	,, purpurea, *Gardiner.*
,, mirabilis, *Quelch.*	,, trimurata, *Gardiner.*
,, gaimardi, *Edw. and H.*	,, umbellifera, *Gardiner.*
	,, superfusa, *Gardiner.*
	,, exilis, *Gardiner.*

Class Foraminifera.

Pressure of Museum duties has unfortunately not allowed the preparation of a Report on the Foraminifera collected at Funafuti.

Hedley, Charles et al. 1899. "XIX. Summary of the fauna of Funafuti." *The Australian Museum Memoir* 3(8), 511–535. https://doi.org/10.3853/j.0067-1967.3.1899.505.

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