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CATALOGUE
OF
MUSEUM
OF
NATURAL HISTORY
AND
MISCELLANEOUS ANTIQUITIES, CURIOS, &c

Collected by Rev. Donald Miller, D. D.
Casa Grazia, Bordighera, Italy.

The Maize Printing Press

This was compiled by
my father, & presented by
me to the Mathew Library
of the University of
California -

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June 1922.

Paleontology Library

MUSEUM

NATURAL HISTORY

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P R E F A C E.

Although the twenty copies of this Catalogue which I have printed are intended only for those persons, whether relatives or strangers, who may, in future, have to do with my Museum, I think it necessary to make a few explanatory remarks, first about the Collection of Natural History and other objects, and then about the Catalogue itself.

The Collection.

I wish it to be understood that I am not a Scientist, but simply an amateur Collector. At an early age I began to gather specimens, - Birds (which I taught myself to skin and mount) , Insects, Minerals. &c. and my opportunities of collecting may be divided into three epochs, viz. 1851-60 when I was in business in Leghorn; 1861-69 when a student in Glasgow; and 1869-1910 when Minister of the Presbyterian Church in Genoa. But though I was always ready to avail myself of opportunities for getting specimens, I never had time to study them, nor did I possess such books as were necessary to enable me to name and classify them. And not having then realized the importance of labelling each specimen and noting the locality from which it came, all were put away in cases and drawers and left to be arranged at some future time. That time did not come till 1910 when I retired from the Ministry, but by that time I had forgotten from what localities many of the specimens had been obtained. Meantime the Collection had assumed considerable proportions. Twice I had been sent on a long voyage on account of health, and so I had opportunities of obtaining many specimens from S. Africa, New Zealand and Australia. After my retirement I also visited Ceylon and Burma, which places yielded valuable additions to the Collection. But the prin-

cial accession came when I was a Student. A Grand Uncle, Joseph Henderson, died, leaving a valuable Collection of Insects, Birds (chiefly aquatic), Fossils, Minerals, &c. which came into my possession. I am also indebted to many friends for gifts of specimens, while by the exchange of duplicates with other Museums the Collection has been further enriched.

Naming and classifying the specimens has been a long and difficult task, owing mainly to the want of the necessary scientific books; and I fear there may be some mistakes in the names given to specimens, as there are some others of which only the genus has been determined.

I am greatly indebted to my friend, Col. Pelloux, an expert Mineralogist, for help in naming Minerals which I could not identify, and also for many specimens presented to me.

The Catalogue.

Having a small " Model Printing Press " in my Study I have printed the Catalogue myself, a somewhat tedious process, as only one page could be printed at a time and had to be allowed a couple of days to dry before the next could be printed. I am ashamed that the list of " Errata " should be so long. Some mistakes in spelling have arisen from my not being familiar with many of the Latin names, others from not having been sufficiently careful in reading the proofs.

That I have been spared to name and classify the specimens since my retirement from the Ministry and to complete the Catalogue in my 84th year is a matter of satisfaction and thankfulness.

DONALD MILLER

Casa Grazia, Bordighera, May, 1922.

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Class M A M M A L I A.

1

Order R O D E N T I A.

Arctomys marmotta. Alpine Marmot. *Monte Rosa.*

Order M O N O T R E M A T A

Ornithorhynchus anatinus. Duck-billed Platypus. *Australia.*

Order I N S E C T I V O R A.

Talpa Europæa. European Mole. *Italy.*

Erinaceus Europæus. European Hedgehog. *Italy.*

Class A V E S .

(Birds mounted)

Order A C C I P I T R E S .

- Falco aesalon.* Merlin. *Britain.*
Falco tinnunculus. Kestrel. *Britain.*
Falco tinnunculus. Kestrel. *Italy.*
Falco buteo. Buzzard. *Britain.*
Falco buteo. Buzzard (light phase). *Britain.*
Falco nissus. Sparrow Hawk. *Italy.*
Falco nissus. Sparrow Hawk. *Britain.*
Falco pulmbarius. Goshawk. *Italy.*
Falco aeruginosus. Marsh Harrier. *Britain.*
Falco aeruginosus. Marsh Harrier. *Britain.*

Sub Order Pandiones,

- Aquila haliaetus.* Osprey. *Britain.*

Sub Class Striges.

- Strix flammea.* Barn Owl. *Italy.*
Myiata Tengmalmi. Tengmalm's Owl. *N. America.*
Strix brachyotus. Short-eared Owl. *Italy.*
Strix otus. Long-eared Owl. *Italy.*

- Corvus pica. Magpie. *Italy.*
Corvus glandarius. Jay. *Italy.*
Corvus glandarius. Jay. *Italy.*
Graculus erimita. Chough. *Italy.*
Oriolus galbula. Golden Oriole. *Malta.*
Hyphantornis velata. Olive Weaver-Bird. *Transvaal.*
Hyphantornis velata. Olive Weaver-Bird. *Transvaal.*
Pyranga rubra. Scarlet Tanager. *S. America.*
Fringilla coesothraustes. Hawfinch. *Britain.*
Fringilla carduelis. Goldfinch. *Italy.*
Certhia familiaris. Tree Creeper. *Italy.*
Tichodroma muraria. Wall Creeper. *Italy.*
Tichodroma muraria. Wall Creeper. *Italy.*
Parus major. Great Tit. *Italy.*
Lanius collurio. Red-backed Shrike. *Britain.*
Sylvia luscinia. Nightingale. *Italy.*
Erytharus philomena. Nightingale. *S. Africa.*
Merula torquata. Ring-Ousel. *Italy.*
Cinnyris amethystinus. ? *S. Africa.*
Nectarina famosa. Malachite Sun-Bird. *S. Africa.*
Pyromelana oryx. Red Bishop-Bird. *S. Africa.*
Laniarius cubla. ? *S. Africa.*
Calliste thoracica. ? *S. Africa.*
Turdus cyaneus. Blue Rock Thrush. *Italy.*

Order PASSERES.

- Corvus pica.* Magpie. *Italy.*
" *Corvus glandarius.* Jay. *Italy.*
Corvus glandarius. Jay. *Italy.*
Graculus erimita. Chough.
Oriolus galbula. Golden Oriole. *Malta.*
Hyphantornis velata. Olive Weaver - Bird. *Transvaal.*
Hyphantornis velata. Olive Weaver - Bird. *Transvaal.*
Pyranga rubra. Scarlet Tanager. *S. America.*
Fringilla coecothraustes. Hawfinch. *Britain.*
Fringilla carduelis. Goldfinch, *Italy.*
Certhia familiaris. Tree Creeper- *Italy.*
Tichodroma muraria. Wall Creeper. *Italy.*
Tichodroma muraris. Wall Creeper. *Italy.*
Parus major. Great Tit. *Italy.*
Lanius collurio. Red - Backed Shrike. *Britain.*

Sub Order Picariæ.

- Picus viridis.* Green Woodpecker. *Britain.*
Picus viridis. Green Woodpecker. *Britain.*
Picus medius. Middle Spotted Woodpecker. *Italy.*
Picus minor. Lesser Spotted Woodpecker *Italy.*
Yunx torquilla. Wryneck. *Britain.*
Cuculus canorus. Cuckoo. *Britain.*
Chrysococcyx smaragdineus. Cape Cuckoo. *S. Africa.*
Caprimulgus Europæus. Common Nightjar. *Italy.*
Upupa epops. Hoopoe. *Italy.*
Alcedo ispida. Kingfisher. *Britain.*
Corythornis cyanostigma. Kingfisher. *S. Africa.*

Order P A S S E R E S.

Sub Order Psittaci.

Turacus albocristatus. White - crested Touraco. *S. Africa.*

Brotogerys tirica. (?) Green Parraquet. *S. Africa.*

Melopsittacus undulatus. Love - Bird. *Australia.*

Order G A L L I N Œ.

Tetrao Scoticus. Red Grouse. *Britain.*

Phasianus colchicus. Common Pheasant. *Britain.*

Phasianus colchicus. Common Pheasant. *Italy.*

Chrysolophus Amherstiae. Amherst's Pheasant. *China.*

Lophophorus resplendens. Himalayan Monal.

Order G R A L L Œ.

Sub Order Herodiones.

Ardea cinerea. Common Heron. *S. Africa.*

Ardea purpurea. Purple Heron. *Italy.*

Ardea alba. Great White Heron. *Italy.*

Order G R A L L Æ.

Sub Order Herodiones.

- Ardea garzetta.* Little Egret. *Italy.*
Ardea ralloides. Squacco Heron. *Italy.*
Ardea Nycticorax. Night Heron. *Italy.*
Ardea Nycticorax. Night Heron. *Italy.*
Ardea stellaris. Common Bittern. *Britain.*
Ibis Falcinellus. Glossy Ibis. *Italy.*

Sub Order Fulicariæ.

- Rallus aquaticus.* Water Rail. *Italy.*
Rallus aquaticus. Water Rail. *Italy.*
Fulica atra. Coot. *Italy.*

Sub Order Limicolæ.

- Glareola torquata.* Pratincole. *Britain.*
Charadrius pluvialis. Golden Plover. *Britain.*
Himantopus melanopterus. Black - winged Stilt. *Italy.*
Hæmatopus ostragalus. Oyster - Catcher. *Italy.*
Numenius arquatus. Curlew. *Italy.*
Numenius arquatus. Curlew. *Britain.*
Numenius phæopus. Whimbrel.

Order G R A L L Æ .

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Sub Order Limacolæ .

- Machetes pugnax. Ruff. *Britain.*
Machetes pugnax. Reeve. *Britain.*
Totanus calidris. Redshank. *Italy.*
Totanus calidris. Redshank. *Italy.*
Scolopax rusticola. Woodcock. *Italy.*
Ægialitis Geoffroyi. Large Sand Plover (?) *Malta.*

Order A N S E R E S .

- Anser albifrons. White-fronted Goose. *Britain.*
Anser Bernicla. Bernicle Goose. *Britain.*
Anser brenta. Brent Goose. *Britain.*
Anser brenta. Brent Goose. *Britain.*
Anas Tadorna. Sheldrake. *Britain.*
Anas clypeata. Shoveller. *male. Britain.*
Anas clypeata. Shoveller. *female. Britain.*
Anas acuta. Pintail. *m. Britain.*
Anas acuta. Pintail. *f. Britain.*
Anas crecca. T a'. *m. „*
Anas crecca. Teal. *f. „*
Anas querquedula. Garganey Teal. *m Britain.*
Anas querquedula. Garganey Teal. *f. „*

Order A N S E R E S.

- Anas fuligula.* Tufted Duck. *m.* *Britain.*
Anas fuligula. Tufted Duck. *f.* *„*
Anas histrionica. Harlequin Duck. *m.* *„*
Anas histrionica. Harlequin Duck. *young.* (?)
Anas penelope. Widgeon. *m.* *Britain.*
Anas penelope. Widgeon. *m.* *Italy.*
Anas penelope. Widgeon. *young.* *Britain.*
Anas ferina. Pochard. *m.* *Britain.*
Anas ferina. Pochard. *f.* *„*
Anas clangula. Golden Eye. *m.* *Britain.*
Anas clangula. Golden Eye. *f.* *„*
Anas clangula. Golden Eye. *f.* *„*
Anas clangula. Golden Eye. *young.*
Anas molissima. Eider Duck. *young.* *Britain.*
Anas nigra. Scoter. *Britain.*
Mergus merganser. Goosander. *m.* *Britain.*
Mergus merganser. Goosander. *f.* *Britain.*

Sub Order Steganopodes.

- Phalacrocorax carbo.* Cormorant. *Britain.*
Sula Bassana. White Gannet. *Britain.*

Order A N S E R E S .

9

Sub Order Gaviæ .

Sterna hirundo. Common Tern. *Britain.*

Larus rissa. Kittiwake. *Britain.*

Sub Order Tubinares .

Diomedea exulans. Albatross. *South Pacific Ocean.*

...

Sub Order Pygopœes .

Fratercula arctica. Puffin. *Britain.*

Colymbus septentrionalis. Red - throated Diver *Britain.*

Colymbus septentrionalis. Red - throated Diver. *Britain.*

Colymbus rubicollis. Red - necked Grebe. *m. Britain.*

Colymbus rubicollis. Red - necked Grebe. *young. Britain.*

Colymbus auritus. Eared Grebe. *Britain.*

Colymbus auritus. Eared Grebe. *young. Britain.*

Colymbus Hebridicus. Dabchick. *Britain.*

Colymbus Hebridicus. Dabchick. *young. Britain.*

Flightless Birds .

Apteryx mantelli. (*native*) "Kiwi". *New Zealand.*

Class A V E S .

(*Birds not mounted.*)

Order A C C I P I T R E S .

Lophoaetus occipitalis. Crested Eagle. *S. Africa.*

Circus Gouldi. Harrier Hawk. *New Zealand.*

Falco nissus. Sparrow Hawk. *India.*

Sub Order Striges .

Glaucidium castananotum. Chestnut - backed Owlet. *Ceylon.*

Spiloglaux Novæ Zelandiæ "More Pork". *New Zealand.*

Order P A S S E R E S .

Platysmus leucopterus. White-winged Jay. *Malacca.*

Eulabetes ptilogenys. Ceylon Grackle. *Ceylon.*

Eulabetes religiosa. Southern Grackle. *Ceylon.*

Acridotheres melanosternus. Ceylonese Myna. *Ceylon.*

Cassicus hæmorrhous. Brazilian Red-rumped Cacique. *Brazil.*

Dissimurulus lophorinus. Ceylonese Crested Drongo. *Ceylon.*

Order P A S S E R E S .

- Buchanga leucopygialis*. Ceylonese white-bellied Drongo, *Ceylon*
Plocus laya. Common Weaver-Bird. *m. Ceylon*.
Plocus manyær. Striated Weaver-Bird. *m. Ceylon*.
Amadina erythrocephalus. Red-headed Weaver-Bird. *Damara-*
land.
Vidua principalis. Paradise Whyda Bird. *m. South Africa*.
Urobrachya phœnicea. Red-shouldered Whyda Bird. *S. Africa*
Chera procne. Great-tailed Whyda Bird. *Bloomfontein*.
Pyromelana Taha. Taha Weaver-Finch. *Transvaal*.
Pyromelana Taha. Taha Weaver-Finch. *Transvaal*.
Caliste thoracica. Orange-breasted Tanager. *Brazil*.
Caliste festiva. Green-headed Tanager. *Brazil*.
Caliste cyaneiventris. Blue-bellied Tanager. *Brazil*.
Rhamphocelus brazilius. Brazilian Scarlet Tanager. *Brazil*.
Pipridea melanonota. Black-headed Tanager. *Brazil*.
Tanagrella velia. Blue-bellied Tanager. *Brazil*.
Tachyphonus cristatus. Orange-crested Tanager. *Brazil*.
Euphonia chlorotica. Purple-throated Euphonia. *S. America*.
Euphonia minuta. Little Euphonia. *S. America*.
Dænis cayana. Turquoise Honey-Creeper. *S. America*.
Dænis cayana. Turquoise Honey-Creeper. *S. America*.
Chlorophanes spiza. Green Honey-Creeper. *Brazil*.
Cæreba cyanea. Blue Honey-Creeper. *Brazil*.
Euplectes xanthomelas. Kaffir Finch. *m. S. Africa*.
Euplectes xanthomelas. Kaffir Finch. *f. S. Africa*.
Lagonostieta rubricata. S. African Ruddy Waxbill. *m. S. Africa*.
Lagonostieta rubricata. S. African Ruddy Waxbill. *f. S. Africa*.
Uregingthus phœnicotis. Crimson-eared Waxbill. *Java*.
Uregingthus granatinus. Grenadine Waxbill. *S. Africa*.
Alauda arvensis. Skylark. *New Zealand*.

- Sitta frontalis.* Indian blue Nuthatch. *m.* *Ceylon.*
Dendrophila azurea. Javan Nuthatch. *Java.*
Prosthemadera Novæ Zelandiæ. Parson Bird. '*Tui*' *N. Z.*
Prosthemadera Novæ Zelandiæ. Parson Bird. '*Tui*' *N. Y.*
Prosthemadera novæ Zelandiæ. Parson Bird. '*Tui*' *N. Z.*
Promerops cafer. Cape Long-tailed Suga Bird. *S. Africa.*
Promerops cafer. Cape Long-tailed Suga-Bird. *S. Africa.*
Zosterops Ceylonensis. Ceylonese White-eye. *m.* *Ceylon.*
Zosterops Ceylonensis. Ceylonese White-eye. *f.* *Ceylon.*
Zosterops Gouldi. White-eye. *m.* *New Zealand.*
Zosterops Gouldi. White-eye. *f.* *New Zealand.*
Nectarinia famosa. Malachite Sun-bird. *S. Africa.*
Nectarinia famosa. Malachite Sun-bird. *S. Africa.*
Nectarinia gutturalis. Scurlet-chested Sun-bird. *S. E. Africa*
Cinnyris chalybeus. Double-collared Sun-Bird. *S. Africa.*
Cinnyris amethystinus. Amethyst Sun-bird. *S. Africa.*
Anthothreptes hypogrammica. Banded Sun-bird. *S. Africa.*
Malacotus atrocinereus. Black-and-crimson Shrike.
Damaraland.
Laniaris quadricolor. Four-coloured Bush-Shrike. *S. Africa.*
Laniarius poliocephalus. Grey-headed Bush-Shrike. *f.*
S. Africa.
Turdus spiloptera. Spotted Thrush. *m.* *Ceylon.*
Merula Kinnisi. Ceylon Blackbird. *Ceylon.*
Irena malaccensis. Malayan Fairy Blue-bird. *Malacca.*
Ruticilla titys. Black Red-tart. *Italy.*
Cyanecula suecica. Blue-throated Robin. *S. Africa.*
Cisticola tectrix. Pine pine Grass Warbler. *m.* *S. Africa.*
Cisticola tectrix. Pine pine Grass Warbler. *f.* *S. Africa*
Cisticola natalensis. Natal Grass Warbler. *S. Africa.*

Culicicapa ruficapillus. Yellow-throated Flycatcher Warbler.
(uncommon). *S. Africa*.

Acrocephalus streperus. Reed Warbler. *S. Africa*.

Apalis thoracica, Bar-throated Warbler. *S. Africa*.

Gerygone flaviventris. Yellow-vented Fly-eater. *S. Africa*.

Cinclus aquaticus. Dipper. *m. Britain*.

Pomatorhinus melanurus. Ceylonese Scimitar Babbler. *Ceylon*.

Malaccercus rufescens Rufus Babbler. *m. Ceylon*.

Kelaartia pencillata. Yellow-eared Bulbul. *m. Ceylon*.

Kelaartia pencillata. Yellow-eared Bulbul. *f. Ceylon*.

Microtarsus melanoleucus. White-winged black Bulbul.

Malacca.

Brachypodius melanocephalus. Black headed Bulbul. *Malacca*.

Chloropsis viridis. Green Bulbul. *Java*.

Tersiphone paradisi. Paradise Flycatcher. *m. Ceylon*.

Chloropeta icterica. Sundevall's Yellow Flycatcher. *m.*

S. Africa.

Anthornis melanura. Bell-bird. 'Moko moko' *N. Zealand*.

Chiroxiphia caudata Long tailed Manakin. *m. Brazil*.

Chiroxiphia caudata. Long-tailed Manakin. *f. Brazil*.

Cymborhynchus malaccensis. Black-and red Broadbill. *Malacca*.

Cymborhynchus malaccensis. Black-and red Broadbill. *Malacca*.

Eurylæmus ochromalus. Black-and-Yellow Broadbill. *Malacca*.

Smithornis Capensis. Cape Broadbill. *S. Africa*.

Osmotreron vernans. Pink-necked green Pigeon. *Malacca*.

Spermestes ? *S. Africa*.

Dacnis atricapilla. Green Honey-creeper. *Brazil*.

Nectarinia tacazze. Sun-bird. *S. Africa (?)*

Sub Order Paradiscidæ.

- Paradisea rubra.* Red Bird of Paradise. *British New Guinea.*
Cicinpurus regius. King Paradise Bird. *British New Guinea.*

Sub Order Picariæ.

- Chelidoptera brasiliensis.* Brazilian Swallow-wing. *Brazil.*
Brachypternus erythrontus. Red-backed Woodpecker- *m.*
Ceylon.
Miglyptes tukki. Buff-necked Barred Woodpecker. *Malacca.*
Campothera Capricorni. Red-headed Woodpecker. *S. Africa.*
Megalama flavifrons. Yellow-eared Parbet. *m. Ceylon.*
Megalama flavifrons. Yellow-eared Barbet. *f. Ceylon.*
Xantholama rubicapilla. Small Ceylon Barbet. *m. Ceylon.*
Xantholama hæmatocephala. Crimson-breasted Parbet.
S. Africa.
Trachyphonus Cafer. Levaillant's Barbet. *f. Transvaal.*
Tricolaema diadematum. Crowned Barbet. *S. Africa.*
Chrysococcyx smaragdineus. Emerald Cuckoo. *S. Africa.*
 (Three specimens.)
Chrysococcyx cupreus. Golden Cuckoo. *m. S. Africa.*
Hapaloderma narina. Narina Trogon. *m. S. Africa.*
Hapaloderma narina. Narina Trogon, *f. S. Africa.*
Rhinortha chlorophaea. Raffles Green-billed Malkoha. *Malacca.*
Rhopodytes sumatranus. Sumatran Green-billed Malokoha.
Malacca.
Rhopodytes diardi. Diard's Green-billed Malkoha. *Malacca.*

Order P A S S E R E S .

Sub Order Picariæ .

- Agyrtria leucogaster.* White-bellied Emerald. *Brazil.*
Agyrtria leucogaster. White-bellied Emerald. *Brazil.*
Lampornis nigricollis. Violet-tailed Mango. *Brazil.*
Lampornis nigricollis. Violet-tailed Mango. (young) *Brazil.*
Clytolæma rubinea. Brazilian Ruby. *Brazil.*
 (Three specimens.)
Cephalolepis lalandei. Delalande's Plover-crest. *Brazil.*
Chrysolampis mosquitus. Ruby-and-Topaz Humming Bird.
Chrysolampis mosquitus. Ruby-and-Topaz Humming Bird.
Brazil.
Glaucis hirsuta. Hairy Hermit. *Brazil.*
Caprimulgus macrurus. Jungle Nightjar. *m. Ceylon.*
Dichrocercus hirundineus. Swallow-tailed Pea-Eater.
Bloomfontein.
Merops pusilus. Little Bee-Eater. *S. Africa.*
Merops viridis. Green Bee-Eater. *Damaland.*
Merops hirundineus. Swallow-tailed Pea-Eater. *Bloomfontein.*
Promerops cafer. Cape Long-tailed Suga-Bird. *S. Africa.*
Promerops cafer. Cape Long-tailed Suga-Bird. *S. Africa.*
Procnias tersa. Swallow Fruit-Eater. *Brazil.*
Lophoceros gingalensis. Ceylonese Hornbill. *m. Ceylon.*
Ceyx tridactyla. Indian three toed Kingfisher. *f. Ceylon.*
Halcyon semicærulea. Brown Hooded Kingfisher. *N. Africa.*
Halcyon chloris. White-collared Kingfisher. *Java.*
Halcyon pallidiventris. African white-breasted Kingfisher.
S. Africa.
Ceryle Americana. American Kingfisher. *N. America.*
Ceryle maxima. Great African Kingfisher. *S. Africa.*
Corythornis cyanostigma. Crested Kingfisher. *m. S. Africa.*

Order P A S S E R E S .

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Sub Order Picariæ.

Sub Order Psittacidæ.

- Nestor notabilis.* Kea. (native) *New Zealand.*
Callopsittacus Novæ Hollandiæ. Cockatiel. *Australia.*
Palæornis Calthorpæ. Layard's Parraquet. *Ceylon.*
Loriculus indicus. Ceylonese Lorikeet. *Ceylon.*
Platycercus eximius. Yellow-mantled Parrot. *Australia.*
Psittacus incertus. Little Malayan Parrot. *Malacca.*
Stringops habroptilus. Owl-Parrot (Katapo). *New Zealand.*

Order G A L L I N Æ .

- Excalfactoria chinensis.* Blue-breasted Quail. *Malacca.*
Lophortyx Californicus. Californian Quail. *California.*
Ocydromus Australis. Weka Rail. [Maori Hen.] *New Zealand.*

Order G R A L L Æ.

Sub Order Fulicariæ.

Hypotænidia striata. Blue-breasted Banded Rail. *Malacca.*

Amaurornis phœnicura. White-breasted Water-Hen. *Malacca.*

Sub Order Limicolæ.

Totanus hypoleucus. Common Sandpiper. *f. Crete.*

Machetes pugnax. Ruff. *Britain.*

Order A N S E R E S.

Spatula variegata. Spoonbill Duck. *New Zealand.*

Anas chlorotis. Brown Duck. [Tarawhatu]. *New Zealand.*

Sub Order Steganopodes.

Plotus Levaiiанти. Darter. *m. S. Africa.*

Phalacrocorax carbo. Cormorant. *S. Africa.*

Order A N S E R E S.

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Sub Order Gaviæ.

Sterna nigra. Black Tern. *Britain.*

Sterna frontalis. New Zealand Tern. *New Zealand.*

Sub Order Tubinares.

Thalassidroma pelagica. Stormy Petrel. *Filila Rock, Mollat.*

Pelecanoides berardi. Diving Petrel. *Magellan.*

Cymodroma grallaria. White-bellied Petrel. *New Zealand*

Puffinus brevicauda. Mutton Bird. *New Zealand.*

and other matters

It is the order of the Board that the following matters be referred to the Committee on Finance and Administration for their consideration and report.

and other matters

- The Board has received a report from the Committee on Finance and Administration regarding the proposed changes in the budget for the year 1911.
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and other matters

It is the order of the Board that the following matters be referred to the Committee on Finance and Administration for their consideration and report.

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(*Birds' Eggs.*)

Order A C C I P I T R E S.

Falco milvus.	Kite.	<i>Britain.</i>
Falco lithofalco.	Merlin.	„
Falco Timmunculus.	Kestrel.	„
Falco nissus.	Sparrow Hawk.	„

Sub Order Pandiones.

Falco haliaetus.	Osprey.	<i>Britain.</i>
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Order P A S S E R E S.

Corvus frugilegus.	Rook.	<i>Britain.</i>
„ monedula.	Jackdaw.	„
„ pica.	Magpie.	„
„ cornix.	Hooded Crow.	„
Sturnus vulgaris.	Starling.	„
Fringila domestica.	House Sparrow.	„
„ montana,	Tree Sparrow.	„
„ cœlebs.	Chaffinch.	„
„ carduelis.	Goldfinch.	<i>Italy.</i>
„ linaria.	Redpole.	<i>Britain.</i>
„ coccothraustes.	Greenfinch.	„

Order P A S S E R E S .

<i>Pyrrhula vulgaris.</i>	Bullfinch.	<i>Britain.</i>
<i>Euplectus capensis.</i>	Cape Finch.	<i>S. Africa.</i>
<i>Molothurus pecoris.</i>	Cow Troopial.	<i>Canada.</i>
<i>Estrela cœrulescens.</i>	Waxbill Weaver Finch.	<i>N. Africa.</i>
<i>Emberiza citrinella.</i>	Yellow Bunting.	<i>Britain.</i>
<i>Emberiza shœniculus.</i>	Reed Bunting.	„
<i>Alauda arvensis.</i>	Sky Lark.	„
<i>Motacilla alba.</i>	Pied Wagtail.	„
<i>Anthus aquaticus.</i>	Rock Pipit.	„
<i>Anthus pratensis.</i>	Meadow Pipit.	„
<i>Parus major.</i>	Great Tit.	„
<i>Parus cœruleus.</i>	Blue Tit	„
<i>Parus ater.</i>	Cole Tit.	„
<i>Lanius excubitor</i>	Grey Shrike.	<i>Italy,</i>
<i>Lanius collurio.</i>	Red-backed Shrike.	<i>Britain.</i>
<i>Lanius rufus.</i>	Wood-Chat Shrike.	„
<i>Sylvia viscivora.</i>	Missel Thrush.	„
„ <i>musica.</i>	Song Thrush.	„
„ <i>saxatilis.</i>	Rock Thrush	„
„ <i>merula,</i>	Blackbird.	„
„ <i>œnanthe.</i>	Wheat-ear,	„
„ <i>rubecula</i>	Redbreast.	„
„ <i>philomena.</i>	Nightingale.	<i>Italy.</i>
„ <i>phragmitis.</i>	Sedge Warbler.	<i>Britain.</i>
„ <i>rubetra.</i>	Whin-chat Warbler.	„
„ <i>atricapilla.</i>	Black-cap.	<i>Italy.</i>
„ <i>cinerea,</i>	Whitethroat.	<i>Britain.</i>
„ <i>trochilus.</i>	Willow Wren.	„
<i>Troglodites Europæus.</i>	Wren.	„
<i>Hirundo rustica.</i>	Common Swallow.	<i>Italy.</i>
„ <i>urbica.</i>	House Martin.	„

Order P A S S E R E S .

23

Columba palumbus. Wood Pigeon. *Britain.*
„ risoria. Turtle Dove. „

Sub Order Picariæ.

Hirundo apus. Swift. *Italy.*
Alcedo ispida. Kingfisher. „

Order G A L L I N Æ .

Phasianus colchicus. Pheasant. *Britain.*
Phasianus versicolor. Japanese Pheasant. *Japan.*
Tetrao urogallus. Capercaillie. *Britain.*
Tetrao urogallus. Capercaillie. *New Zealand.*
Tetrao tetrix. Black Grouse. *Britain.*
Perdix cinerea. Partridge. „
Meleagris gallopavo. Turkey. „
Pavo cristatus. Pea Hen. „
Numidia meleagris. Guinea Fowl. „
Lophortyx Californicus. Californian Quail. *Australia.*

Order G R A L L Æ.

Rallus crex. Land Rail. *Britain.*

„ *acquaticus.* Water Rail. „

„ *porzana.* Spotted Crake. „

„ *pusillus.* Little Crake. „

Gallinula chloropus. Water Hen. „

Fulica atra. Coot. „

Sub Order Limicolæ.

Charadrius hiaticula. Ringed Plover. *Britain.*

Vanellus cristatus. Lapwing. „

Hæmatopus ostralegus. Oyster Catcher. „

Neminius arquata. Curlew. „

Totanus hypoleucus. Common Sandpiper. „

Totanus calidris. Redshank. „

Order A N S E R E S.

Anas mollissima. Eider Duck. *Britain.*

„ *tadorna.* Sheldrake. „

Sub Order Steganapodes.

Sula Bassana. Solan Goose *Britain.*

Phalacrocorus cristatus, Shag. *Britain.*

Phalacrocorus ?sp. Small Black River Shag. *New Zealand.*

Order A N S E R E S

25

Sub Order Gaviæ.

<i>Sterna hirundo.</i>	Common Tern.	<i>Britain.</i>
„ <i>cautiaca.</i>	Sandwich Tern,	„
<i>Sternula nereis.</i>	Little Tern.	„
<i>Larus canus.</i>	Common Gull.	„
„ <i>ridibundus.</i>	Brown-headed Gull.	„
„ <i>ichthyætus</i>	Great Black-backed Gull.	<i>N. Zealand.</i>
„ <i>marinus.</i>	Great Black-backed Gull.	<i>Britain.</i>
„ <i>fuscus.</i>	Lesser Black-backed Gull.	<i>Britain.</i>
„ <i>Novæ Hollandiæ.</i>	Small Red-legged Gull.	<i>N. Zealand.</i>
„ <i>argentatus.</i>	Herring Gull.	<i>Britain.</i>
<i>Rissa tridactyla</i>	Kittiwake.	„
<i>Stercorarius crepidatus.</i>	Richardson's Skua.	<i>Britain.</i>

Sub Order Tubinares.

<i>Diomedea exulans.</i>	Albatross.	<i>New Zealand.</i>
<i>Thalassidroma pelagica.</i>	Stormy Petrel.	<i>Filfla Rock, Malta.</i>
<i>Fulmarus glacialis.</i>	Fulmar Petrel.	<i>Britain.</i>
<i>Puffinus brevicaudus.</i>	Short-tailed Shearwater.	(Mutton Bird) <i>New Zealand.</i>

Sub Order Pygopodes.

<i>Uria troile.</i>	Guillemot.	<i>Britain.</i>
<i>Uria grylle.</i>	Black Guillemot.	„
<i>Mormon articus.</i>	Puffin.	„
<i>Colymbus septentrionalis.</i>	Red-throated Diver.	<i>Britain.</i>
<i>Alca torda.</i>	Razor Bill.	<i>Britain.</i>

Order I M P E N N E S .

Spheniscus demersus. Black-footed Penguin. *N. Zealand.*

Eudyptes chrysocoma. Golden Penguin. „

Eudyptes pachyrhynchus. Yellow-crested Penguin. „

Flightless Birds - Group Ratitæ.

Dromæus Novæ Hollandiæ. Emu. *Australia.*

Struthio camelus. Ostrich. *South Africa,*

Rhea Americana. Rhea. *South America.*

Class A V E S .

(*Birds' Nests.*)

Ploceus baya. Baya Sparrow, *E. Indies.*

Ploceus mamjar. Striated Weaver Bird. *Ceylon.*

? 'Shiver Slov'. *S. Africa.*

Hyphantornis capensis. Olive Weaver-Bird. *S. Africa,*

Chrysolampus mosquitus. Mosquito Humming-Bird. *Brazil.*
(*Bird on the nest.*)

Turdus musicus. Thrush. *Britain.*

(*Eggs in nest.*)

H O R N S .

27

Class U N G U L A T A .

Bovidæ.

Bos Caffer. Cape Buffalo. *Rhodesia.*

Bos taurus. Sicilian Ox. *Sicily.*

Capra.

Rupicapra tragus. Chamois. *Swiss Alps.*

Capra Ibex. Alpine Ibex. *Italian Alps.*

Antilopidæ.

Orias canna. Eland. *S. Africa.*

Strepsiceros. Kudu. Kudu. „

Tragelaphus sylvaticus. Bushbuck. „

Oryx gazella. Gemsbuck. „

Hippotragus equinus. Roan Antelope. „

Gazella euchore. Springbuck. „

Æpyceros melampus, Impala. „

Cervicapra aurundineus. Reedbuck. „

Cervicapra lalandi. Roi Rhebok. „

Cobus ellipsiprymnus. Waterbuck. „

Oreotragus saltator. Klipspringer. „

Nanotragus scoparia. Oribi. „

Cephalophus mergens. Duiker. „

Connochætes taurina Blue Wildebeest. „

Acephalus caana. Hartebeest, „

H O R N S . (*continued*)**Class U N G U L A T A .****Cervidæ.**

Cervus elaphus. Red Deer. *Scotland.*

Cervus Aristotelis. Sambar Deer. *Burma.*

Cervus dama. Fallow Deer. *Italy.*

Rangifer.

Rangifer tarandus. Reindeer. *Norway.*

Mammals.

- Skull of *Trichechus rosmarus*. Walrus. *Greenland*.
 Skull of *Equus caballus*. Horse. *Washed ashore at Bordighera*.
 Skull of *Ursus maritimus*. Polar Bear. *Greenland*.
 Tusk of *Trichechus rosmarus*. Walrus. *Greenland*.
 Tusks of *Macrorhinus leoninus*. Sea Elephant. *Desolation Island*.
 Tusk of *Hippopotamus amphibius*. Common Hippopotamus
S. Africa,
 Fossil Molar Tooth of *Elephas primigenius*. Mammoth. *Siberia*.
 Fossil Molar Tooth of *Elephas melitensis*. Maltese Elephant,
Malta.
 Molar Tooth of *Elephas indicus*. Indian Elephant. *Ceylon*.
 Horn of *Rhinoceros bicornis*. African Rhinoceros. *S. Africa*.
 Tusk of *Monodon monoceros*. Narwhal. *Spitzbergen*.
(This splendid Tusk is 8 ft. 3 in. in length.)
 Ear-Bone of *Balæna mysticetus*. Greenland Whale. *Greenland*.

Birds.

- Tibia of *Dinornis giganteus*. Moa. *New Zealand*.

Fishes.

- Jaws of *Alopias vulpus*. Fox Shark or Thrasher. *Red Sea*.

Crustacea.

- Large Claw of *Cancer pagurus*. Edible Crab. *Britain*.

Various.

- Collection of Bones of Cave Bear and other Animals from the pre-historic Caves at Final Marina, Italy.

Class R E P T I L I A.

Order C R O C O D I L I A.

Family Crocodilidae.

Crocodilus niloticus. *Daud.* Nile Crocodile. Skin of young.

Order C H E L O N I A.

Family Testudinidae.

Testudo tabulata. Brazilian Tortoise, Shell of, *Brazil.*

Order S Q U A M A T A.

Sub Order L a c e r t i l i a.

Family Geckonidæ.

Tarentola mauritanica. *Linn.* Wall Gecko. young.
Bordighera, Italy..

Family Anguinidæ.

Anguis fragilis. *Linn.* Blind Worm. *Bordighera, Italy.*

Family Lacertidæ

Lacerta Bedriagæ. *Cam.* de Bedriaga's Lizard. *Vizzavona,*
Corsica.

Lacerta muralis. *Laur.* Wall Lizard. *Bordighera, Italy.*

Lacerta muralis, var. Lilfordi. *Gunth.* *Cabrera, Balearic*
Islands.

Class R E P T I L I A .

31

Order S Q U A M A T A .

Sub Order Lacertilia.

Family Lacertidæ (continued)

Lacerta muralis, var. filfolensis. *Bedr. Filfla Rock, Malta.*
Hoplodactylus maculatus. *Gray. New Zealand.*

Family Varanidæ.

Varanus niloticus. *Gray. Nile Monitor. Skin of, S. Africa.*

Family Amphisbaenidae,

Amphisbena cinerea. *Vand. Coimbra, Portugal.*

Sub Order O p h i d i a .

Family Boidæ.

Python sebæ. *Gmel. African Python. Skin of, S. Africa.*
! Boa constrictor. *Skin of,*

Family Colubridæ.

Torpidonotus natrix. *Linn. Common Snake. Genoa, Italy.*
Torpidonotus viperinus. *Latr. near Genoa.*
Coronella austrica. *Laur. Smooth Snake. „*
Coronella girondica. *Latr. Southern ditto. „*
Zamensis viridiflavus. *Lacep. Whip-Snake. „*
Cœlopeltis lucertina. *Wagl. Montpellier Snake. Skin of,*
Bordighera. Italy.

Class R E P T I L I A .

Sub Order Ophidia.

Family Viperidæ.

Vipera arietans, Puff Adder. Skin of, *S. Africa*.

Vipera aspis. *Linn.* Asp Viper. *near Genoa*.

Class A M P H I B I A .

Order E C A U D A T A .

Family Discoglossidæ.

Bombinator pachypus. *Bonap.* *Halle a. S.*

Alytes obstetricans. *Wagl*, Midwife Frog. *Paris*.

(*Male with chain of eggs.*)

Order C A U D A T A .

Family Salamandrinæ.

Salamandrina perspicilata. *Savi*. Spectacled Salamander.

Genoa, Italy.

Salamandra maculosa. *Laur.* ^{Spotted} Spotted Salamander. *Genoa*.

Salamandra maculosa. ^{Spectacled} Spectacled Salamander. *Waldensian*
Valleys, Italy.

Salamandra atra. *Laur.* Alpine Salamander. *Cortina d'Am-*
pezzo, Tyrol.

Salamandra atra. Alpine Salamander. *Rhone Valley.*

Genus Triton.

Triton alpestris. *Larr.* Alpine Newt. *Genoa, Italy.*

Triton helveticus. *Razoum.* Spanish Newt. *Bordeaux.*

Class R E P T I L I A .

33

Order C A U D A T A .

Genus Triton (*continued*)

Triton cristatus *Laur.* Crested Newt. *Florence, Italy.*

Spelerpes fuscus. *Bonap.* *Ormea, Italy.*

Class P I S C E S .

(*Fishes and parts of Fishes.*)

Sub Class T E L E O S T O M I .

Family Xiphiidæ.

Xiphias gladius. Sword Fish. Sword of, *Mediterranean.*

Sub Order Lophobranchii.

Family Syngnathidæ,

Syngnathus acus. Pipe Fish. *Mediterranean.*

Hippocampus antiquorum. Sea Horse. *Mediterranean.*

Sub Order Plectognathi.

Family Diodontidæ.

Diodon maculatus. Globe Fish. *Atlantic.*

Sub Class E L A S M O B R A N C H I I .

Family Pristidae.

Pristis antiquorum. Saw Fish. Saw of, *Red Sea.*

Family Rajidae.

Urogymnus asperimus. Sting Ray. Tail of, *Indian Ocean.*

Family Lamnidae.

Alopias vulpes. Fox Shark, or Thrasher. Jaws of, *Red Sea.*

THE JOURNAL OF THE

ROYAL ANTHROPOLOGICAL INSTITUTE

OF GREAT BRITAIN AND IRELAND

Volume 10. Part 1. 1900.

Published by the Royal Anthropological Institute of Great Britain and Ireland.

Printed by the Royal Anthropological Institute of Great Britain and Ireland.

London: 1900.

Price 10s. 6d. per volume.

Single parts 2s. 6d.

Subscriptions 10s. 6d. per annum.

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Class I N S E C T A .

Order C O L E O P T E R A .

(*Beetles.*)

Fam. Cicindelidæ. (Tiger Beetles.)

Cicindela hybrida. L.

„ *campestris. Scop.*

Fam. Carabidæ. (Carnivorous Ground-Beetles.)

Carabus coriaceus. L.

„ *catenulatus. Scop.*

„ *nemoralis. Mull.*

„ *glabratus Payk.*

Notiophilus biguttatus F.

Elaphrus uliginosus. F.

„ *riparius. L.*

Biethusa multipunctata. F.

Bembidium lampros. Hbst.

„ *Andreae. Fbr.*

„ *quadriguttatum. Frb.*

„ *obliquum Strm.*

Philochthus subfinistratus.

Tachys gracilis.

„ *fulvicollis. Dej.*

Trechus quadristriatus. Schr.

Calathus fuscipes. Goetz.

„ *ambiguus. Payk.*

Læmostenus terricola. Hbst.

Agonum sex-punctatum. L.

Fam. **Carabidæ.** (*continued*)

Agonum marginatum. *L.*

„ *Mulleri.* *Hbst.*

Europhilus fuliginosus. *Panz.*

Platynus assimilis. *Payk.*

Anchomenus ruficornis. *Goez.*

„ *obscurus.* *Hbst.*

Pœcilus cupreus. *L.*

Argutor strenuus. *Panz.*

„ *tibialis.*

Amara ænea. *Deg.*

„ *communis.* *Panz.*

„ *apricaria.*

Harpalus æneus. *F.*

„ *distinguendis.* *Dft.*

„ *serripes.* *Quens.*

Badister bipustulatus. *F.*

Chlærius velutinus

Fam. **Haliplidæ.**

Haliplus amænus. *Oliv.*

„ *lineaticollis.* *Mash.*

„ *ruficollis.* *Deg.*

Fam. **Dytiscidæ.** (*Carnivorous Water-Beetles*)

Hyphydrus ferrugeneus. *L.*

Hygrotus ?*sp.*

„ *versicolor.* *Shall.*

Fam. Dytiscidæ. (*continued*)

Hygrotus inæqualis. *F.*

„ *confluens.* *F.*

„ *scitulus.*

Hydroporus septentrionalis. *Gyll.*

„ *12-pustulatus.* *F.*

„ *depressus.*

„ *palustris.* *L.*

„ *melanocephalus.* *Gyll.*

„ *erythrocephalus.* *L.*

„ *lineatus.* *F.*

„ *pubescens.* *Gyll.*

Noterus crassicornis. *Mull.*

„ *clavicornis.* *Dej.*

Laccophilus obscurus. *Panz.*

Platambus maculatus. *L.*

Agabus bipustulatus. *L.*

„ *nebululosus.* *Forst.*

Ilybius fuliginosus. *F.*

„ *ater.* *Deg.*

Copelatus ruficollis. *Schal.*

Rhantus adpersus. *F.*

Colymbetes fuscus. *L.*

„ ? sp.

Hydaticus transversalis. *Pont.*

„ ? sp.

Acilius sulcatus. *L.*

Dytiscus punctulatus. *F.*

„ *dimidiatus.* *Bergst.*

„ *marginalis.* *L.*

Order COLEOPTERA.

Fam. **Dytiscidæ.** (*continued*)

Dytiscus circumflexus. *F.*

Fam. **Gyrinidæ.** (*Whirligig Beetles*).

Gyrinus natator. *L.*

Fam. **Staphylinidæ.** (*Rove Beetles*).

Aleochara astilbus.

„ *canaliculata.*

Tachyporus obtusus. *L.*

„ *hypnorum.* *F.*

„ *chrysomelinus.*

Tachinus rufipes. *Deg.*

„ *subterraneus.*

Bolitobius lunulatus. *L.*

Quedius tristis

Emus hirtus. *L.*

Ontholestes murinus. *L.*

Staphylinus erythropetrus. *L.*

Goerius olens. *Mull.*

„ *similis.* *F.*

Gauropterus fulgidus. *A.*

Gyrophypnus punctulatus. *Payk.*

Metacyclinus glabratus. *Grav.*

Xantholinus linearis. *Oliv.*

Lathrobium elongatum. *L.*

Stiliclus orbiculatus. *Payk.*

Pæderus riparius. *L.*

Fam. **Staphylinidae.** (*continued*).

Stenus † sp.

Bledius tricornis. *Hebst.*

Fam. **Silphidæ.** (*Scavenger or Burying Beetles*).

Necrodes littoralis. *L.*

Thanatophelus rugosus *L.*

„ *sinuatus.* *F.*

Œceoptoma thoracica. *L.*

Xylodrifia quadripunctata. *L.*

Silpha tristis. *Klug.*

Ablattaria lævigata. *F.*

Phosfuga atrata. *L.*

Fam. **Histeridæ.**

Hister quadrimaculatus.

Fam. **Lucanidæ.**

Lucanus cervus. *L.*

(*Two males Prussian type, with large head;*

Three males ordinary type;

Two males with small heads;

Six females; two of the large-headed type)

Lucanus lunifer. *China.*

Several other specimens from China not named.

Order COLEOPTERA.

Fam. Scarabæidæ. (*Chafers*).Group Coprophini. (*Dung Beetles*).

Trox sabulosus. *L.*

Aphodius fossor. *L.*

„ *fimetarius*. *L.*

Geotrupes vernalis. *L.*

Onthophagus ovatus. *L.*

„ *nuchicornis*. *L.*

„ *Dillwynii*.

„ *cœnobita*. *Hebst.*

„ *taurus*. *Schr.*

Group Melolonthini. (*Cockchafers*).

Amphimallus solstitialis. *L.*

Group Rutelini.

Phyllopertha horticola. *L.*

Group Dynastini.

Oryctes ? *sp.*

„ *nasicornis*. *L.*

Group Cetonini.

Cetonia affinis. *And.*

„ *aurata*. *L.*

„ *marmorata*. *F.*

Oxythyrea stictica. *L.*

Fam. **Hydrophilidæ**.

- Helophorus aquaticus. *L.*
,, granularis. *L.*
Hydrocus elongatus. *Schall.*
Berosus luridus. *L.*
Hydrous piceus. *L.*
Hydrobius griseus.
,, fuscipes. *L.*
,, minutus. *F.*
Anacæna bipustulata.
Philhydrus minutus. *F.*
Helochares griseus. *F.*
Sphæridium quadrimaculatum. *Mrsh.*
Cercyon unipunctatus. *L.*
,, melanocephalus, *L.*

Fam. **Byturidæ**.

- Byturus tomentosus. *F.*

Fam. **Nitidulinæ**.

- Soronia grisea. *L.*
Epurea obsoleta. *F.*
Librodor quadriguttatus. *Oliv.*
Pityophagus ferrugineus. *L.*

Fam. **Cryptophagidae**.

- Antherophagus pallens. *Oliv.*
Cryptophagus abietis. *Payk.*

Order COLEOPTERA.

Fam. Erotylidæ.

Triplax russica. *L.*

Dacne rufifrons. *F.*

Corticaria pubescens. *Gyll.*

Fam. Mycetophagidæ.

Mycetophagus piceus, *F.*

Fam. Lyctidæ.

Lyctus pubescens, *Panz.*

Fam. Colydiidae.

Cerlyon histeroides. *F.*

Fam. Coccinellidae. (*Lady Birds*).

Chilocorus bipustulatus *L.*

Fam. Dermestidae.

Dermestes lardarius. *L.*

Fam. Buprestidae.

Chalcophora mariana. *L.*

Capnodis cariosa. *Gallas.*

Buprestes bicolor.

Fam. Elateridae. (*Click Beetles*).

Anthous hæmorrhoidalis. *F.*

Fam. Cantharidæ.

Lampyris noctiluca. *L.*

Fam. Cleridæ.

Necrobia violacea *L.*

„ rufipes. *Deg.*

Fam. Cerambycidæ. (Longicornia.)

Prionus coriarius *L.*

Rhagium bifasciatum. *F.*

„ mordax *Fabr.*

Pachyta quadrimaculata. *L.*

Leptura cerambyciformis. *Schr.*

Strangalia maculata. *Poda.*

Grammoptera tabacicolor, *Deg.*

Cerambyx cerdo. *L.*

Aromia moschata. *L.*

Purpuricenus Kœhleri. *L.*

Callidium clavipes.

Clytanthus Herbsti. *Brahm.*

„ figuratus. *Scop.*

Mounius funereus. *Muls.*

„ asper. *Sulz.*

Monochamus sartor. *F.*

Lamia textor. *L.*

Dorcadion scopoli. *Hbst.*

Saperda populnea. *L.*

Order COLEOPTERA.

Fam. Chrysomelidæ.

- Macroplea mutica. *F.*
 Donacia semicuprea, *Panz.*
 Plateumaris serica. *L.*
 „ braccata *Scop.*
 Liliocerus lili. *Scop.*
 Lema melanopa. *L.*
 Clytra quadripunctata. *L.*
 Cryptocephalus bilineatus. *L.*
 Timarcha tenebricosa. *F.*
 Chrysomela Gottingensis. *L.*
 „ fastuosa. *Scop.*
 „ grossa. *F.*
 Gastroides polygoni. *L.*
 Phyllodicta vulgatissima. *L.*
 Hydrothassa marginella. *L.*
 Galeruca tanacetii.
 Sermylassa hatensis. *L.*
 Chalcoides aurata. *Mrsh.*
 Psylloides chrysocephala. *L.*

Fam. Tenebrionidæ.

- Blaps mortisaga. *L.*
 Phylan gibbus. *F.*
 Tenebrio molitor. *L.*
 Helops lanipes. *L.*
 „ lævicoctostriatus. *Gorz.*
 Isomira murina. *L.*
 Melandrya caraboidis. *L.*
 Mordella fasciata. *F.*

Order COLEOPTERA.

45

Fam. Tenebrionidæ. (*continued*).

Anaspis frontalis. *L.*

Opatrum tibiale. *L.*

Fam. Bruchidæ.

Bruchus rufimanus *Schon.*

Fam. Curculionidæ.

Apoderus coryle. *L.*

Rhynchites bitulete. *F.*

Apion violaceum. *Kirby.*

Otiorynchus picipes. *F.*

„ sulcatus. *F.*

Curculio imperialis.

Hypera punctata. *F.*

Balaninus betulæ.

N. B. In addition to the above classified Beetles there are others not yet identified, of which some from China-

Order ORTHOPTERA.

Fam. Achetidæ.

Gryllotalpa vulgaris. *Latr.*

Fam. Gryllidæ.

Gryllus bimaculatus. *De Geer.*

Fam. Acridiidæ.

Schistocerca peregrina. *F.*

Locusta migratoria. *Leach.*

Fam Phasmatidae.

Bacillus rossi.

Mantis religiosa.

Order NEUROPTERA.

Fam. Panorpidæ.

Panorpa ? sp.

Fam. Hemerobiidæ.

Calepteryx splendens. *Harr.*

Osmylus maculatus. *F.*

Order NEUROPTERA.

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Fam. Libellulidæ.

Gomphus vulgatissima. L.

Brachytron pratense. Mull.

Libellula quadrimaculata. L.

Palpares libelluloides. L.

Order HYMENOPTERA.

Fam. Tenthredinidæ. (*Saw-Flies*).

Allanthus blandus.

„ *bicinctus*.

„ *punctatus*.

„ *conspicuus*.

„ *zonatus*.

„ *alterrinus*.

„ *solitarius*.

„ *viridis*.

„ (*? Tenthredo*) *lividus*.

„ *ater*.

„ *cingulus*.

„ *scrophulariæ*.

„ *viduus*.

„ *analis*.

„ *arcuatus*.

„ *hæmatopus*

Order **HYMENOPTERA**.Fam. **Tenthredinidæ**. (*continued*).

Allanthus scalarus.

„ bicolor

„ laberalis.

Strongylogaster cingulata.

Tenthredo tristis.

„ rosæ.

Hylotoma ustulata.

„ cærulescens.

„ stephensii.

„ cærulea.

Salandria moria.

Athalia spinarum.

„ lincolata.

„ corlata.

Dolorus nigra.

Xiphydria camelus.

Cephus pygmæus.

Sirex juveneus.

Cimbex femorata.

Trichiosoma lucorum.

Abia serica.

Fam. **Ichneumonidæ**. (*Large Larvæ-Wasps*).

Ichneumon bidentarius.

„ primatorius.

„ zanthozosmus.

„ luctatorius.

„ confusorius.

„ pedatorius.

Order HYMENOPTERA.

49

Fam. Ichneumonidæ. (*continued*).

Therion circumflexum.

„ ? sp.

„ zanthopum.

„ flaviolutum.

Ophion luteus.

„ ramidules.

Stenomalus muscarum.

Ephialtes ? sp.

Ichneumon ornatorius.

Fam. Chrysididæ. (*Burnished Wasps*).

Chrysis ignita.

„ bidentata.

Elampus auratus.

Lasius ? sp.

Cleptes semiaurata.

Fam. Crabronidæ. (*Fly and Aphid Wasps*).

Alyson spinosus.

Nysson interruptus.

Gorytes mystaceus.

Crabro cribraria.

„ vespiformis.

„ vaga.

Stigmus minutus.

Cerceris (? arenaria)

Epipione spinipes.

Order HYMENOPTERA

Fam. **Sphegidæ**. (*Sand and Wood Wasps*).

Ammophila hirsuta.

Sceliphron or *Pelopæus spirifex*.

Pompilus viaticus.

Nomada ? sp.

Fam. **Scoliidæ**. (*Sand and Wood Wasps*).

Sapyga sex-guttata.

Fam. **Eumenidæ**. (*Solitary Wasps*).

Odynerus antilope.

„ *marginatus*.

Eumenes atricornis.

Fam. **Vespidae**. (*Social Wasps*).

Vespa crabro.

„ *germanica*.

„ *vulgaris*.

Fam. **Andrenidae**. (*Short-tongued Bees*).

Hylæus annulatus.

Prosopis ? sp.

Colletes succincta.

Dasypoda swammerdamella.

Xylocopa violacea.

Andrena cingulata.

„ *albicans*.

Fam. **Andrenidæ.** (*continued*).

Andrena cineraria.

- „ *thoracica.*
- „ *melanocephala.*
- „ *nitida.*
- „ *negroænia.*
- „ *fulvipes.*
- „ *varians.*
- „ *gwyneana.*
- „ *fulva.*
- „ *chrysosceles.*

Sphecodes geoffroyellus.

- „ *gibbus.*

Halictus rubicundus.

- „ *pulverinatus.*
- „ *albipes.*
- „ *abdominalis.*

Prosopis ? sp.

Fam. **Apidæ.** (*Long-tongued Bees*).

Osmia (? *ænea*).

- „ *cærulescens.*
- „ *tunensis.*
- „ *bicolor.*
- „ *bicornis,*

Chelostoma florisomnis.

Stelis aterrima.

Anthidium manicatum.

Fam. *Apidæ*. (*continued*).

Megachile centuncularis.

‘ *willughbiella*.

„ *ligniscea*.

Cælioxys conica.

Epeolus variegata.

Nomada marshamella.

„ *ruficornis*.

„ *ferrugenia*.

Melecta punctata.

Eucera longicornis.

Anthrophora retusa.

Bombus rupestris.

„ *vestalis*.

„ *hortorum*.

„ *lucorum*.

„ *terrestris*.

„ *subterraneus*.

„ *floralis*.

„ *beckwithellus*.

„ *rossielius*.

„ *lapidarius*.

Baccha elongata.

Apis mellifica.

The foregoing Orders of Insects, namely, the Coleoptera, Orthoptera, Neuroptera and Hymenoptera, have biting jaws; those which follow, namely, the Lepidoptera and Diptera have sucking mouths.

Order LEPIDOPTERA.

Sub Order RHOPALOCERA.

(Butterflies)

Fam. Papilionidæ.

Papilio machaon. Swallow-tailed Butterfly. *Italy*,
 „ podalirius. Continental Swallow-tailed B. „

Fam. Thais.

Thais polyxena. *Italy*,
 „ rumina. *South Spain*,

Fam. Parnassius.

Parnassius apollo. Apollo of the Alps. *Switzerland*.

Fam. Pieridæ.

Gonepteryx rhamni. Brimstone B. *Italy*.
 „ cleopatra. Cleopatra B. „
 Colias edusa. Clouded Saffron. „
 „ hyale. Clouded Sulphur. „
 Aporia crataegi. Black-veined. „
 Pieris brassicæ. Large Garden White. „
 „ rapæ. Small Garden White. „
 Euchloe cardamines. Orange Tip. „
 „ belia. ? „
 „ euphenoides. ? *S, Spain*,
 Leucophasia sinapis Wood White *Italy*.

Fam. Satyridæ.

Melanagria galatea. Marbled White. *Italy*.

Fam. **Satyridae.** (*continued*).

Parage egeria,	Wood Argus	<i>Italy.</i>
„	Megæra. Wall brown.	„
Satyrus semele.	Grayling.	„
„	circe. ?	„
„	hermione. ?	„
„	statilinus. ?	„
Epinephele janira.	Meadow brown.	„
„	tithonus, Large Heath.	„
„	hyperanthus. Ringlet.	„
„	caliope. ?	„
Erebia blandina.	Scotch Argus.	„
Cænonympha pamphilus.	Small Heath.	<i>Italy.</i>

Fam. **Nymphalidae.**

Limemitis sybilla.	White Admiral.	<i>Italy.</i>
Apatura iris.	Purple Emperor.	„

Group **Vanessidi.**

Vanessa cardui.	Painted Lady.	<i>Italy.</i>
„	atlanta. Red Admiral	„
„	Io. Peacock.	„
„	antiopa. Camberwell Beauty.	„
„	polychloros. Large Tortoise Shell.	„
„	C. Album. Comma.	„

Group **A r g y n n i d i.**

Argynnis paphia.	Silver-washed Fritillary.	<i>Italy.</i>
„ agalia.	Dark-green Fritillary.	„
„ adippe.	High brown Fritillary.	„
„ latona.	Queen of Spain.	„
„ euprosyne.	Pearl-bordered Fritillary.	„
„ selene.	Small „ „	„
Melitæa cinxia.	Glanville Fritillary.	„
„ artemis.	Marsh Fritillary.	„
„ didyma.	?	„

Fam. **Erycinidæ.**

Nemeobius lucina	Duke of Burgundy Fritillary.	<i>Italy.</i>
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Fam. **Lycænidae.**

Thecla betulæ.	Brown Hair-streak.	<i>Italy.</i>
„ pruni.	Black „	„
„ quercus.	Purple „	„
„ rubi.	Green „	„
Chrysophanus virgaureæ	Scarce Copper.	„
„ phlæas.	Small Copper.	„
„ dispar.	Large Copper.	„
Polyommatus argiolus.	Azure Blue.	„
„ acis.	Mazarine Blue.	„
„ corydon.	Chalk-hill Blue.	„
„ adonis.	Adonis Blue.	„
„ alexis.	Common Blue.	„
„ argyrognomos.	?	„
„ astrarche.	Brown Argus.	„

Pamphila linea.	Small Skipper.	, Italy.
Hesperia sylvanus.	Large Skipper.	,,
,, actæon.	Lulworth Skipper.	,,
,, tagys.	Dingy Skipper.	,,
,, comma.	Silver-spotted Skipper.	,,
,, alveolus.	Grizzled Skipper.	,,
Carterocephalus palæmon.	Chequered Skipper.	,,

N. B. Besides the above European Butterflies. there are eighty-five specimens from Ceylon. which have to be named.

Order LEPIDOPTERA.

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Sub Order Heterocera.

(*Moths*),

Fam. Sphingidæ.

<i>Acherontia atropos</i> .	Death's Head Moth.	<i>Italy.</i>
<i>Sphinx convolvuli</i> .	Convolvulus Hawk.	<i>Britain.</i>
„ <i>ligustri</i> .	Privet Hawk.	„
<i>Smerinthus tiliaæ</i> .	Lime Hawk.	„
„ <i>populi</i> .	Poplar Hawk.	„
<i>Procris statices</i> .	Green Forester.	„
<i>Celerio euphorbiæ</i> .	Spurge Hawk.	„
„ <i>vespertilio</i> .	Bat Hawk.	<i>Bakloh, India.</i>
<i>Charocampa elpenor</i> .	Elephant Hawk.	<i>Britain.</i>
„ <i>celerio</i> .	Silver striped Hawk.	„
<i>Deilephila procellus</i> .	Small Elephant Hawk.	„
<i>Macroglossa bombyceiformis</i>	Narrow-bordered Bee Hawk.	
„ <i>stellarum</i> .	Humming Bird Hawk.	<i>Britain.</i>
<i>Zygene trifolii</i> .	<i>? JEOM</i>	<i>Italy.</i>
„ <i>carniolica</i> ,	?	„
„ <i>fabricius</i> .	?	„
<i>Sesia tipuliformis</i> .	Currant Clear-wing.	<i>Britain.</i>
„ <i>apiformis</i> .	Hornet Clear-wing.	„
<i>Syntomis phegea</i> .	?	„
<i>Bembecia halæiformis</i> .	?	<i>Italy.</i>

Fam. Bombycidæ.

<i>Clisocampa cratægi</i>	Pale Oak Eggar.	<i>Italy,</i>
„ <i>neustria</i> .	Lackey Moth.	<i>Britain.</i>
<i>Orygia antiqua</i> .	Vapourer.	„

Laria (?Orygia) pudibunda.	Pale Tussock.	<i>Britain.</i>
Arctia canosa.		"
" salicis.		"
" chrysorrhæa.	Buff Ermine.	"
" caja.	Common Tiger.	<i>Italy.</i>
" villica.	Cream-Spotted Tiger.	"
Phragmatobia fuliginosa.		"
Eulepia cribrum.		"
Callimorpha jacobææ.	Cinnabar Moth.	"
" dominula.	Scarlet Tiger.	"
" eborina.		"
" hera.	Jersey Tiger.	"
Lithosia quadra.	Four-spotted Footman.	<i>Britain.</i>
" complana.	Scarce Footman.	"
" fabricii.		"
" flava.		"
" irrorea.		"
" serica.		"
" rubricollis,		"
Orthosia litura.		"
Eyprepia russula.		"
Pæcilocampa populi.	December Moth.	"
Gastropacha quercifolia.	Lappet Moth.	"
Psilura monacha.	Black Arches Moth.	<i>Italy.</i>
Chelonia plantaginis.	Wood Tiger.	"
Deiopia pulchella.	Crimson speckled.	"
Pterostoma palpina.	Pale Prominent.	<i>Britain.</i>
Episene cæruleocephala.	? Figure of Eight.	"
Eriogaster lanestris.	Small Eggar.	"
Lasiocampa quercus.	Oak Eggar.	"
Diparis dispar.	Gipsy Moth.	<i>Italy,</i>

Fam. **Bombycidæ**. (*continued*).

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Saturnia pavonia major.	Great Peacock.	<i>Italy.</i>
„ pavonia minor.	Lesser Peacock.	„
Macrothylacia rubi.	Fox Moth.	„
Lasiocampa quercus.	Oak Eggar.	„
Odonestis potatoria.	Drinker Moth.	„
Cossus cossus.	Goat Moth.	„
Spilosoma lubricipeda.		<i>Britain.</i>
„ mendica.	Muslin Moth.	„
„ menthrasti.	White Elmine.	„
„ fuliginorum.		„
Nudaria mundana.		„

Fam. **Noctuidæ**.

Polia plebeia.		<i>Britain.</i>
„ polymita.		„
„ flavocincta.		„
„ serene.		„
Eremobia ochrolenca.		„
Actebia (? Agrotis) præcox.		„
„ (Agrotis) prophyrea.		„
Agrotis segetum.	Turnip Moth.	„
„ corticea.		„
„ obelicea.		„
„ valligera.		„
„ exclamationis.		„
„ nebulosa.		„
„ vitta.		„
„ pyrophila.		„
„ crassa.		„
„ australis.		„

Agrotis spirula.	Britain.
„ pronuba.	Italy.
Phlogophora meticulosa.	Angle Shades, Britain.
„ lucipara.	„
Thyatira derasa.	„
„ batis. Peach Blossom.	„
Tethea diluta.	„
„ duplaris.	„
„ ? sp.	„
Bombycia viminalis.	„
Cosmia affinis. Lesser Spotted Pinion.	„
„ trapetzingia.	„
„ pyrolina.	„
Xanthia flavago. Pink-barred Sallow.	„
„ ? sp.	„
„ aurago. Barred Sallow.	„
„ citrigo. Orange Sallow.	„
Gortyna flavago. Frosted Orange.	„
Leucania (? impura). Smoky Wainscot.	„
„ rufescens.	„
„ obsoleta.	„
Monagria typhæ. Bulrush Moth	„
Cucullia umbratica. The Shark.	„
„ artemisiæ Artemisia Shark.	„
„ verbasci. Mullein Shark.	„
„ absinthii. Woodworm.	„
Abrostola tripartita.	„
„ asclepiadis.	„
Plusia festina.	„
„ iota.	„
„ chrysitis. Burnished Brass.	„

Plusia gamma. Silver Y.

„ *interrogationis*. Scarce Silver Y,

Anarta myrtilli. Beautiful Yellow Underwing.

„ *arbuti*.

„ *cordigera*.

„ *melanopa*. Broad-bordered White Underwing.

Heliothis dipsacea. Marbled Clover.

Acontia luctosa. Four-spot.

Ophiusa fuscata,

„ *lusoria*.

„ *Ochsenheim*

Phytometra œnea.

Euclidia glyphica. The Burnet.

„ *Mi.* The Mother Shipton.

„ ? *sp.*

Orthosia litura.

„ *lota*.

„ *gothica*.

„ *instabilis*.

„ *munda*.

„ *stabilis*.

„ *cruda*.

„ *flavilinea*.

„ *spharalutina*,

„ *mucilenta*.

„ *rufina*.

Rhizolinia rectilinea.

„ *adusta*.

„ *lambda*.

„ *contigua*.

Mamestra pisi.

Mamestra basilinea.

„ oleracea.

„ persicariæ. Dot Moth.

„ brassicæ. Cabbage Moth.

„ albicolon.

„ unca,

Apamæa connexa.

„ ? sp.

„ lugens.

„ l. niger.

„ laterosa.

„ mineralis.

„ auricula,

Miana Æthiops. Blackmoor.

„ fasciuncula.

Celæne tripuncta.

„ erythostigma.

Hadena plebeia.

Achatia sprita.

Miselia aprilana.

„ oxycanthæ. Ealing's glory.

Dipterygia pinastri.

Acronycta leporina.

„ tridens.

„ psi.

„ ? sp,

„ rumicis.

„ menyanthedis.

? Spælotis.

Heliophobus ? sp.

Glaea spadacea

Amphipyra tragopoginis. Mouse

„ pyramidea. Copper Underwing.

Triphena orbona.

„ pronuba. Common Underwing.

„ janthina. Lesser Brown-bordered Underwing.

„ fimbria, Broad-bordered Yellow Underwing.

„ ? sp.

Xylina exoleta.

„ ? sp.

„ lithoxylea.

„ polydon.

„ putris.

„ characteria.

„ rurea.

Trachea ? sp.

„ portea.

„ chi.

Drepana falcataria.

Mania maura.

Dimorpha roberis.

Dicranura vinula. Puss Moth.

Graphiphora brunnea.

„ triangulum.

„ plecta.

„ C. nigrum.

„ baja.

„ festiva.

„ festiva, var.

„ umbrosa.

„ Dahlii.

„ augur.

Heliophobus popularis.

„ ? sp.

Caradrina sordida.

„ *Morpheus*, Mottled Rustic.

„ *cubicularis*.

„ *blenda*.

„ *xanthographa*.

„ *trilinea*.

Rusina ferruginea.

Mythimna grisea.

Noctua conigera.

Agriopsis aprilina. Merveil du jour.

Emmelia trabealis.

Catocala electa., (? *sponsa*). Crimson Underwing.

„ *nupta*. Red Underwing.

„ *promissa*. Pale Crimson Underwing.

Fam. **Geometridæ**.

Minoa chærophyllata.

Rumia cratægata. Brimstone.

Piona deculbata.

Abraxas ulmaria.

„ *grossulariata*. Currant Moth.

Melanippe marginata.

Melanthia ? sp.

„ *adustata*.

„ *ocellata*. Purple Bar.

„ ? sp.

„ ? sp.

Zerene procellata.	Orange and black.	..
„ hastata.	Black and white.	..
„ rubiginata.	Black and white.	..
„ subtristata.	Black and white.	..
„ silacata.	Black and white.	..
„ prunata.	Black and white.	..
„ suffumata.	Black and white.	..
Venilia maculata. Speckled Yellow.	Black and white.	..
Bapta punctata.	Black and white.	..
Electra centum notata.	Black and white.	..
„ immunata.	Black and white.	..
„ pyraliata.	Black and white.	..
„ sociata.	Black and white.	..
„ testata.	Black and white.	..
Cidaria, (? Anticlea) ? sp.	Black and white.	..
„ badiata. Shoulder Stripe,	Black and white.	..
„ berberata. Barberry Carpet.	Black and white.	..
„ ? sp.	Black and white.	..
„ ? sp.	Black and white.	..
Hemithea ? sp.	Black and white.	..
Polyphasia comitata.	Black and white.	..
Ypsipetis (? Hydriomena) impluviata.	Black and white.	..
„ fusifundata.	Black and white.	..
Larissa plagiata.	Black and white.	..
Larentia (? Camptogramma) dubitata.	Black and white.	..
„ bilineata. Yellow Shell.	Black and white.	..
Ptychopoda lactata..	Black and white.	..
„ virgulata.	Black and white.	..
„ lividata.	Black and white.	..
„ dilutata.	Black and white.	..
„ inornata,	Black and white.	..

Ptychopoda remitata.

„ *aversata*.

Emmelesia albulata.

„ *rivulata*.

„ *lateata*.

„ *candidata*.

Geometra casiata.

„ *galeata*.

„ *thyniaria*. Common Emerald.

„ ? *sp.*

„ *imitaria*.

„ *petrata*.

„ *sambucaria*.

„ *smaragdria*. Essex Emerald.

„ *bidentaria*.

„ *elinguaria*.

„ *illunaria*.

„ *papilionaria*. Large Emerald,

„ *strictaria*.

„ *leucophasia*.

„ *latiaria*.

„ *fluctuata*.

„ *implicata*.

„ *vespersaria*.

„ *brumaria*.

„ ? *vernaria*. Small Emerald.

„ *repandaria*.

Hydriomena bilineata.

Biston prodromarius. Oak Peauty.

„ *betularius*

„ *histarius*.

Nyssia pilosaria.

Alcis roberaria.

Boarmia consortaria. Pale Oak Beauty.

„ *roboraria*. Great Oak Beauty.

Cleora cinctaria.

„ *abruptaria*.

„ ? sp.

Ephyra punctaria. Maiden's Blush.

„ *omicronaria*

„ *poraria*.

Hybernia defoliaria.

„ *rupicaparia*. Early Moth.

„ *dilatata*.

Chesias spartiata.

Eupithecia rectangulata. Green Pug.

„ *subfuscata*.

„ *absinthiata*.

„ *pusillata*.

„ *vulgata*.

„ *centaureata*.

„ *nanuta*.

„ ? sp.

Bupalus (? *Fidonia*.) *pinarius*. Bordered White.

„ *favillaccarius*.

Crocallis ? *elinguaria*. Scalloped Oak.

„ ? sp.

Ennomos erosaria.

„ *tiliaria*, Canary-shouldered Thorn.

„ *apiciaria*.

„ *dolubraria*,

Himera penuraria. Feathered Thorn.

- Platypteryx lacertinaria*.
Lozogramma liniolata.
Phasiane plumbaria.
 „ *querci*.
 „ ? sp.
Aspilates ochrearia. (? *citraria*) Yellow Belle.
 „ *verspersaria*.
Cabera pusaria.
Angerona prunaria. Orange Moth,
Hipparchus hajularius.
 „ *cythisarius*.
Metrocampa fasciaria.
 „ *margaritaria*. Light Emerald.
Fidonia piniaria.
 „ ? sp.
Speranza siluaria.
Rumeria pulveraria.
Eubolia ? sp.
Xanthorrhoe bipunctaria.
Lerguthia (? *Xanthorrhoe*) *ferrugaria*.
Xerynthia dictymaria.
 „ *viridaria*.
Gnophos obscurata Annulet Moth.
Larentia undulata.
Opisthograptis luteolata. Brimstone,
Cilix comprissa.
 „ *glaucata*. Chinese Character.
Chloephora prosimana.
Nocina fagina.
Timandra amataria. Blood Vein.
 „ *apricaria*.

Nola cucullatella.

Simaethis fabriciana.

Pyranusta anguinalis.

„ *purpuralis.*

„ *puncialis.*

„ *caspitis.*

Hydrocampa potamagata.

„ ? sp.

Botys lemnata.

„ *fuscilis.*

„ *lutealis.*

„ *limbalis.*

„ *verticilis.*

„ ? sp.

Scopula flavalis.

„ *ovalis.*

„ *nivealis.*

„ *fuscilis.*

„ *urticilis.*

„ ? sp.

„ *hybridalis.*

„ ? *sericialis.*

Diurna fagella.

Clediobea angustalis,

Herminia barbalis.

„ *memoralis.*

Pyralis tarsicarnalis.

„ *farinatis.*

„ ? sp.

Murgentia forficilis,

Hypena proboscidalis.

- Crambus pascuellus.**
Crambitis ?sp.
Yponomeuta ?sp,
Pterophoros monodactylus.
 „ **pentadactylus.**
Adela ?sp.
Eurrhypara urticata.

Fam. **Tortricidæ**.

- Tortrix viridana.** Green Oak Moth.
 „ **avellana.**
 „ **ribeana.**
 „ **corylana.**
 „ **?opezaria.**
 „ **xylosteara.**
 „ **?sp.**
 „ **?sp**
Antithesia tripunctata.
Pendina betuleana.
 „ **scillicella.**
Spilonota sticticana.
 „ **trimaculata,**
Carpocapsa pamonella. Codlin Moth.
Steganoptycha vetusana.
 „ **subuncana.**
 „ **trimaculana.**
Zeiraphera communana.
Anchylopera lundana.

Philoxopterix sociana.

Roxana nigricana.

Aphelia 4 punctana.

Cnephasia interjectana.

„ logiana.

Orthotona usticana.

„ ? sp.

Orthotænia combuna.

Ptycholoma lecheana.

„ ministrana.

Xanthosetia hamana.

Conchylis angutana.

Argyrotoza bergmanniana.

„ holmiana.

„ plumbana.

„ læflingiana,

„ ciliana.

Teras emergana

Leptogramma squamana.

Peronea schilleriana.

Fam. **Alucitidæ**.

Alucita hexadactyla. White Plume.

MOLLUSCA

(Shells)

Class CEPHALOPODA.

Order DIBRANCHIATA.

Fam Argonautidæ,

Argonauta Argo. Paper Nautilus. *China.*

Fam, Teuthidæ.

Loligo vulgaris. Pen of, *Britain.*

Fam. Sepiadæ.

Sepia orbignyana. Internal Shell of, *Mediterranean.*

Fam. Spirulidæ.

Spirula lævis. Internal shell of, *New Zealand.*

Order TETRABRANCHIATA.

Fam. Nautilidæ.

Nautilus pompilius. *Indian Ocean.*

Order PROSOBRANCHIATA.

Fam. Strombidæ.

Strombus pugilis. *West Indies.*

„ „ „ young.

„ *auris Dianæ.* *India.*

Pteroceras (*Heptadactylus*) *lambis.* *Indian Ocean.*

Pteroceras *peron.* Scorpion Shell.

Pteroceras rugosum. First stage in growth. *Mauritius.*

Rostellaria delicatula. *Indian Ocean*

„ *cincta.* „ „

Fam. Muricidæ.

Murex scorpio. *Chinese Sea.*

„ (*Phyllonotus*) *regius.* *Peru.*

„ (*Phyllonotus*) *radix.* *Pacific Ocean.*

„ *tribulus.* Thorny Woodcock, *Mediterranean.*

„ *adustus.* *Mediterranean.*

„ *tenuispina.* „

„ *brandaris.* „

„ *trunculus.* „

„ *crinaceus.* „

„ *cristatus.* „

„ *palma rosæ.* *Ceylon.*

Fusus (*Chrysodomus*) *antiquus.* *Mediterranean.*

„ *colus.* Spindle Shell. „

„ *gracilus.* „

„ *incisus.* „

Fam. **Muricidæ.**

- Hemifusus triba, *Mediterranean.*
 Fulguraria fulgura. Lightning Shell. *Ceylon.*
 Triton femoralis. *Mediterranean.*
 Pyrula molengena. *China.*
 „ ficus. Young. *Mauritius.*
 Trophon geversianus. *Ramleh, Egypt,*
 Fasciolaria tulipa. *Mediterranean.*
 Pisania striata. *Ramleh, Egypt,*
 „ ? sp. *Mediterranean,*
 Polia D'Orbigni. „
 „ ? sp. *Solomon Islands.*
 Latirus gibula. *Ceylon.*
 Turbinella ? sp. *Solomon Islands.*
 Neptunea antiqua. *Britain.*
 Euthria (Pisania) cornea. *Mediterranean.*
 Triton kleinei *South Africa.*
 „ doliaris. „
 Tudicla spirillus.
 Rapana bezoar. *Mauritius.*

Fam. **Buccinidæ,**

- Eburna spirata. *Red Sea.*
 Harpa ventricosa. *South Africa.*
 „ „ *Ceylon.*
 „ conoidalis. *Indian Ocean.*
 Terebra maculata. *Moluccas.*
 „ muscaria. *India.*

Fam. **Buccinidæ.** *continued.*

- Terebra dimidiata. *India.*
 Harpa striatula. *Ceylon.*
 „ ? sp. „
 „ minor. „
 Cassis sulcata. *Helmet Shell. Malta.*
 „ texticulus. *Mediterranean.*
 „ fimbriata. „
 „ madagascariensis. *Pacific Ocean.*
 „ flammea *Mozambique.*
 Cassidaria echinophora. *Malta.*
 „ „ var. *Mediterranean,*
 Buccinum undatum. *Whelk with Hermit Crab inside and*
 Barnacles outside Britain.
 „ „ *Ramleh, Egypt.*
 Pentadactylus (? Ricinula) grossularius.
 Ricinula (? albalabris.) *China.*
 Ancillaria glabrata. *West Indies.*
 Phos senticosus. *Red Sea.*
 Oliva scripta, *Mauritius.*
 „ fusiformis. „
 „ macleina, „
 „ carneola. „
 „ „ *Fiji Islands,*
 „ „ *Ramleh, Egypt,*
 „ bullosa. var. „
 „ mauritiana. *Mauritius.*
 „ „ Young, „
 „ utricus, *Mediterranea.*

Fam. **Buccinidæ.** *continued.*

- Oliva eburnea *Antilles*,
 „ ponderosa *Mauritius*.
 „ pica. „
 „ erythostoma. „
 „ [Many other varieties from Mauritius.]
 Dolium galea. Tun Shell, *Malta*.
 „ lactescens. var. *India*.
 „ melanostoma. *Pacific Ocean*,
 „ tessellatum. *Mauritius*.
 „ perdix. „
 „ olearium. „
 Purpura persica. *India*.
 „ ? chocolata. „
 „ savigny. „
 „ pica. „
 „ ? much worn
 „ capensis. *South Africa*.
 Columbella rustica. *Mediterranean*.
 „ fasciata. „
 Nassa reticulata. „
 „ cornicula. „
 „ incrassata. „
 Ringicula buccinea. „
 ? Planaxis lineata. *India*.
 Bullia digitalis. var. *Achatina*. *South Africa*,
 „ ? sp. *Mediterranean*.
 Cominella tigrina. *South Africa*.
 Desmoulea retusa, „
 Cassidaria tyrrhena, var. *Mediterranean*.
 Bulimus decollatus. *Liguria, Italy*.

Fam. Conidæ.

- Conus multipunctatus.* *Mauritius.*
 „ „ *Mosambique.*
 „ *marmoreus.* *Red Sea.*
 „ *textile.* *Mediterranean.*
 „ *stereus muscarum.* *India.*
 „ *nocturnus* „
 „ *geographicus.* *Ramleh, Egypt.*
 „ *mediterraneus.* *Mediterranean.*
 „ *striatus.* *Ceylon.*
 „ *literatus.* „
 „ *pygmæus.* *West Indies.*
 „ *cardinalis.* „
 „ *coronatus.* *Indian Ocean.*
Pleurotoma babylonica. *Ramleh, Egypt.*
Be'a turricula. *Britain.*

Fam. Volutidæ.

- Mitra episcopalis.* *India.*
 „ *cardinalis.* *Mauritius.*
 „ *maculata,* „
 „ *zonata.* *Mediterranean,*
Melo æthiopica. *Red Sea.*
Marginella glabella *Africa.*
Volutilithes spinosa. *California.*
Voluta elongata. *New Zealand.* Section showing the plicæ
 of the columella.

Fam. **Cypræidae,**

Cypræa mauritiana. *Mauritius.*

„ *tigris.* *Mozambique.*

„ *irrorata.* *Mauritius.*

„ *pantherina.* „

„ „ *Red Sea.*

„ *fimbriata.* *Mauritius,*

„ *talpa.* „

„ *lynx.* „

„ *caput serpentis.* *Indo-Pacific.*

„ *ocellata.* *Red Sea.*

„ (*Trivia*) *europa.* *Mediterranean,*

„ (*Luponia*) *helvola,* „

„ *asella.* „

„ (*Aricia*) *annula.* *Singapore.*

„ *arabica.* *Indian Ocean.*

„ (*Pustularia*) *staphylea.* *Indian Ocean.*

„ *moneta,* small variety. „

„ *erosa.* *Indo Pacific.*

„ *cervinetta.* *Panama.*

„ *arabacula.* „

„ *poraria.* *Pacific.*

„ *zigzag.* *Ceylon.*

„ *hebraica.* *Red Sea.*

„ *vitellus.* *Mauritius.*

„ *teres.* *Mozambique.*

„ *exanthema.* „

Erato lævis, *Britain,*

Ovulum ovum. *Mozambique.*

Fam. **Naticidæ**,

- Lunatia monilifera. *India.*
 Velutina lævigata. *Mediterranean.*
 Naticina semiclausula. „
 Natica maculata. „
 „ millepunctata. „
 „ cruentata. „
 „ Josephina. *Indo-Pacific.*
 „ carena. „
 „ ? sp. *Solomon Islands.*
 „ ? sp. „
 „ mammilla. worn. *South Africa.*
 „ (Neverita.) glaucina. *Mediterranean.*
 Vanicoro (Narica) cancellata. *Ramleh, Egypt.*

Fam. **Pyramidellidæ**.

- ? Melanoides aspera. *Indo-Pacific.*
 Obeliscus (Pyramidella) cingulatus. *Mauritius.*
 Turbonilla [Chemnitzia] scalaris. *Mediterranean.*

Fam. **Cerithiadæ**.

- Aporrhais pes pelicani. *Mediterranean.*
 Cerithium pyramidale. „
 „ nodulosum. „
 „ vulgatum. *Ramleh, Egypt.*
 „ ? sp. *Solomon Islands.*
 „ ? sp. „
 „ ferrugineum. *Mediterranean.*
 Struthiolaris papulosa. *New Zealand.*

Fam. Melaniadæ,

Melanopsis costata. *Lake of Galilee.*

Melania aculea. *Philippines.*

„ lirata. *North India.*

„ pyramis. var. *South India.*

Melanella hollandri.

Paludomus fulgurata. *Ceylon.*

„ dilatata. „

„ (Tanalia) loricata *Ceylon.*

„ chilinoides. „

Fam. Turritellidæ.

Turritella tenebra. *Mediterranean.*

„ communis. „

„ „ *Skye, Scotland.*

„ carinifera. *South Africa.*

„ duplicata. *Ceylon.*

Scalaria scalaris. *Mediterranean.*

„ communis. *Ramleh, Egypt.*

Silliquaria anguina. *Mediterranean.*

Vermetus glomeratus. „

Rissoa ventricosa. — „

Fam. Littorinidæ.

Torinia cylindracea, *Pacific Ocean.*

„ variegata. „

„ virgata. „

Littorina natalis. *Britain.*

„ nigrolineata. *Solomon Islands.*

Fam. Littorinidæ. (*continued*)

Littorina sulcata. *Solomon Islands.*

„ obtusata. *Atlantic.*

Litiopa bombyx. *Mediterranean.*

Lithoglyphus naticoides. *Europe.*

Lacuna pallidula. *North America.*

Rissoa ventricosa. *Mediterranean.*

Solarium perspectivum. „

Fam. Paludinidæ,

Paludina bengalensis. *India.*

„ melanostoma. *Nagpur, India,*

„ fasciata. *Italy.*

„ vivipara. *Britain.*

„ listeri. „

Bithynia tentaculata. „

„ pentaculata. *India.*

„ leachi. *Britain.*

Ampularia polita. *Calcutta, India.*

„ globosa. *Nagpur, India.*

Amphibola australis. *New Zealand.*

Pomus (Ampularia) urceus. *Ramleh, Egypt.*

Asolene saxer. *Bombay, India.*

Pomella megastoma. *S. America.*

Valvata piscinalis. *Britain.*

Fam. Neritidæ.

Nerita undulata. *Solomon Islands.*

„ ustulata. *Philippines.*

Fam. Neritidæ. (*continued*)

- Nerita ? tenebrosa. *Senegal.*
 „ pelorunta. *Red Sea.*
 Neritina aterrima. *India.*
 „ ? pacifica. *Solomon Islands.*
 „ striolata, *India.*
 „ fluviatilis. *Britain.*

Fam. Turbinidæ.

- Clanculus pharaonis. *Red Sea,*
 Trochus niloticus. *Egypt.*
 „ „ young. „
 „ millegranus, *Mentone, France.*
 „ adansonii. *Mediterranean.*
 „ tumidus. „
 „ obeliscus. *Oamaru, New Zealand.*
 „ ? sp. *Solomon Islands.*
 „ radiatus. *Indian Ocean,*
 „ ? sp. *Mediterranean.*
 „ iris. *New Zealand.*
 Umbonium vestiarium.
 Margarita (Trochus) helicina. *Britain.*
 Gibbula cinerea. *Britain.*
 „ ardens. *Mediterranean.*
 Turbo rugosa. „
 „ undulata. „
 „ setosa. *Mauritius.*
 „ sarmaticus. *South Africa,*
 „ „ opercula of, *South Africa.*

Fam. Turbinidæ (*continued*).

Turbo imperialis. *Mosambique.*

„ *cidaris.* *South Africa.*

Ninella staminea.

Chlorostoma. *Chili.*

Monodonta labeo. *Solomon Islands.*

Trochiscus (*Trochus*) *norrissii.*

Turbinella ? sp. *Solomon Islands,*

Phasianella speciosa. *Mediterranean.*

Bolma rugosa.

Prisogaster niger.

Fam. Haliotidæ .

Haliotis tuberculata *Mediterranean.*

„ *coccoradiata.* *South Africa.*

„ *albicans.* „

„ *tricostatus.* „

„ *iris.* *Pawa Shell.* *New Zealand,*

„ *several other species unnamed.*

Ianthina fragilis. *West Indies.*

Hiantula rostrata. *New Zealand.*

Fam. Fissurellidæ .

Fissurella ? sp. *Solomon Islands.*

Fam. Patellidæ .

Patella vulgata. *Britain.*

„ *cærulea.* *Mediterranean.*

Fam. **Patellidæ** (*continued*).

Patella longicosta. *South Africa.*

„ *oculus.* „

„ *patriarcha.* „

„ *(cymbula) compressa.* *South Africa.*

„ *umbella.* „

„ *barbara.* „

„ *echinulata.* „

„ *testudinaria.* *Britain..*

„ *various species unnamed.*

Scutellaria plicata. *Mentone, France.*

Siphonaria concinna. *South Africa.*

„ *atra.* *Pacific Islands.*

„ ? *sp.* „

Acmaea (Acicula) saccharina. *Solomon Islands.*

Fam. **Chitonidæ.**

Chiton siculus. *Mediterranean,*

Order PULMONIFERA.

Fam. **Helicidæ.**

Helix niciniensis. *Mediterranean.*

„ *glacialis.* *Colle della Croce, Italy.*

„ *vitrinoides.* *Nagpur, India.*

Fam. **Helicidæ**. (continued).

- Helix* *lapidica*. *Britain*.
 „ *falaciosa*. *India*.
 „ *caracolla*. „
 „ *waltoni*. *Ceylon*,
 „ *melanostoma*. *Britain*.
 „ *pam*. *Philippines*.
 „ *hæmastoma*. *Ceylon*.
 „ *phœnix*. „
 „ *pomatia*. *Britain*.
 „ „ *Italy*,
 „ *aspersa*. *Britain*,
 „ „ *Italy*.
 „ „ „ *var. Muller*.
 „ *memoralis*. „
 „ „ *India*.
 „ „ *Britain*. *One immature Shell*.
 „ *pisana* *Malta*.
 „ „ *Britain*.
 „ *trifasciata*. *Orissa, India*.
 „ *arbustorum*. *Italy*.
 „ „ *High Alps*.
 „ *scabriuscula*. *Sicily*.
 „ *vitillina*. *Bombay, India*.
 „ *interrupta*. *Calcutta, India*.
 „ *himalyona*. *Bombay, India*.
 „ *madraspata*. *South India*.
 „ *carthusiana*. *Italy*.
 „ *ericetorum*. „
 „ *achatina*. *Burma*.
 „ *vermiculata*. *Malta*.

Fam. **Helicidæ**. (*continued*).

Helix hæmastoma. *Ceylon.*

- „ *algira.*
- „ *hortensis.* *Italy.*
- „ *rotundata.* *Britain.*
- „ *hispidæ.* *India.*
- „ *ruginosa.* *Ahemdnugger, India.*
- „ *aperta.* *Malta.*
- „ *decussata.* *Bombay, India.*
- „ *pulcherrima.* var. *Philippines.*
- „ *laidlayana.* *India.*
- „ *bayadera.* *Bombay, India.*
- „ *desertorum.* *Italy.*
- „ *pulchella.* *Britain.*
- „ *aculeata.* „
- „ *umbilicata.* „
- „ *revelata.* „
- „ *caperata.* „
- „ *granulata.* „
- „ *fusca.* „
- „ *rufescens.* „
- „ *cantiana.* „
- „ *virgata.* „
- „ (*Acavus*) *prospera.* *Ceylon.*
- „ (*Hygromia*) *limbata.* *Italy.*
- „ (*Hemicycla*) *consobrina.* *Grand Canary.*
- „ [*Leucochroa*] *candidissima.* *Italy.*
- „ ? sp. *Malta.*

Fam. **Helicidæ**. (*continued*).

Bulimus oblongus. *Barbadoes*.

„ „ „ two Eggs of,

„ *decollatus*. *Italy*.

„ *candalaris*. *Kashmir, India*.

„ *punctatus*. *Nagpur, India*.

„ *gracilis*. „ „

„ *pulius*. *Bombay, India*.

„ *densus*. „

„ *acutus*. *Britain*.

„ *perversus*. *India*.

Pupa pusilla. *Britain*.

„ *muscorum*. „

„ *umbilicata*, „

„ *juniperi secale*. „

„ ? sp.

„ (*Abida*) *frumentuus*. *Italy*.

„ *uva*. *Guadaloupe*.

„ *venacea*. *Italy*.

„ *amieta*. „

Clausilia bidens (? *nigricans*) two varieties. *Italy*.

„ *nigricans*. *Britain*.

„ *laminata*. „

„ *bidens*. *Malta*.

„ *plicata*. *Italy*.

Achatina fasciata. *Mauritius*.

„ ? sp.

„ *zebra*. *South Africa*.

Achatinella (? *vulpina*). *Honolulu*.

Vitrina pellucida *Italy*.

Fam. **Helicidæ**. (*continued*).

- Vitrina pellucida*. *Britain*.
 „ *fasciata*. *Italy*.
Pisania striata. *Ramleh, Egypt*.
 „ *maculosa*. *Mediterranean*.
 „ „ *young*. „
Zua lubrica *Britain*.
Anastoma globulosa. *Brazil*.
Cionella lubrica. *India*.
Cochlicella acuta. *Mediterranean*.
Azeca (? *Bulimus*) *tridens*. *Britain*.
Balea fragilis. *Britain*.
Succinea putris. *Britain*,
Zonites radiatulus. *Britain*.
 „ *allarius*. „
 „ *nitidulus*. „
 „ *crystallinus*. „
 „ *nitidus*. „
 „ *cellarius*. „
Macroceramus ludovici. *San Domingo*.
 „ *guildingii*. „
 „ *articulatus*. „
Ferussacia ? sp. *India*.
Helicella celaria. *Britain*.
Cochlostyla sarcinosa. *Philippines*.

Fam. **Limacidæ**.

- Heterofusus* (*Spirialis*) *bulimoides*. *Atlantic*.

Fam. **Limnæidæ.**

Limnæa stagnalis	India.
„ ? sp.	
„ chlamys.	India.
„ glutinosa.	„
„ auricularia.	„
„ trunculata.	Britain.
„ palustris.	„
„ pereger.	„
„ acuminata.	India.
Pianorbis marginatus.	„
„ indicus.	„
„ contortus.	„
„ vortex.	„
„ „	Britain.
„ corneus.	„
„ nitidus.	„
„ carinatus.	„
„ nautileus	„
„ albus.	„
Ancylus oblongus.	„
„ fluviatilis.	„
Physa hypnorum.	India.

Fam. **Auriculidæ.**

Auricula auris Midæ.	Philippines.
„ stagnalis.	West Indies.
Carychium minimum.	Britain.
Amphipeplea glutinosa.	Britain.

Fam. **Cyclostomidæ.**

Cyclostoma elegans. *Italy.*

„ „ *Britain.*

„ *melitensis.* *Multa.*

„ ? sp. „

Cyclotus semistriatus. *Deccan, Iadia.*

Cataulus pyramidatus. *Ceylon.*

„ *austinianus.* „

Alcadia brownii. *Jamaica.*

Rhegostoma vitreum. *Philippines.*

„ *grande.* *Luzon Isle.*

Alycæus strangulatus. *Nilgiri, India.*

Cyclophorus ? sp. *Buitenzorg, Java.*

„ *indicus.* *Bombay, India.*

„ *borneensis.* *Borneo.*

„ *stenomphalus.* *Kiliyan, India.*

„ *involvulus.* „

„ ? *rafflezi.* *Java,*

Pterocyclos rupestris. *Bengal, India.*

„ ? sp. *Java.*

Otopoma clausum. *Mauritius.*

Fam. **Aciculidæ.**

Acmaea saccharina. *Solomon Islands.*

Fam. **Bullidæ.**

Scaphander (Bulla) lignarius. *Britain.*

Bulla nebulosa. *India.*

, adansonii. *North Africa.*

Bullia digitalis, var. achatina. *South Africa.*

Diaphana hyalina. *Borneo,*

Haminea hydatis. *Mediterranean.*

Class **BRACHIOPODA.**Fam. **Terebratulidæ.**

Terebratula rubicunda. *New Zealand.*

„ ? sp. „

Class **CONCHIFERA.**Fam. **Ostreidæ.**

Pecten jacobæus. *Mediterranean.*

„ maximus. *Britain.*

„ varius. *Mediterranean.*

„ „ young. „

„ erubescens. *New Zealand.*

„ sanguineus. *Ramleh, Egypt.*

„ septemradiatus *South Africa.*

Fam. Ostreidæ continued.

Pecten opercularis, *Britain.*

„ several other species not named.

Placuna placenta. *China.*

Ostræa carinata. *India.*

Dendrostræa crista-galli. Tree Oyster. *India.*

Lima squamosa *Mediterranean.*

„ inflata. „

„ (Plagistoma) cardiformis. *India.*

? Radula lima.

Fam. Aviculidæ.

Meleagrina fucata. Pearl Oyster. *Ceylon.*

„ „ „ „ a skinned shell.

„ margaritifera. „ „

Avicula hirundo. *Mediterranean,*

Crenatula semiaurata. *China.*

Pinna squamosa. large. *Venice.*

„ „ small. *Britain.*

Fam. Mytilidæ.

Modiola barbata. *Mediterranean.*

„ tulipa. *Britain,*

Mytilus smaragdinus. "Pipi" *New Zealand,*

„ edulis. *Britain.*

„ „ *New Zealand.*

? Crista pectinata.

Dreissena polymorpha. *Britain.*

Fam. **Mytilidæ** *continued.*

Lithophaga dactylus. *Mediterranean.*

Fam. **Arcadæ**

Arca Noë. *Mediterranean.*

- „ *pacifica* *Solomon Islands.*
- „ *barbata.* *Mediterranean,*
- „ *hirsuta* „
- „ *angulata.* *Solomon Islands.*
- „ *decurvata.* *South Africa,*
- „ *diluvii.* „

Pectunculus pectiniformis. *India.*

- „ *pilosus.* „
- „ *glycimeris.* „
- „ ? sp. worn valves.

Axinaea glycimeris. *Britain.*

? „ *flammea*

? *Yoldia myalis.* *Norway.*

Fam. **Unionidæ.**

Unio margaritiferus. *Britain.*

With nine River - Pearls found in this species of Shell.

Unio margaritiferus. *Viareggio. Italy.*

- „ *pictorum.* *Britain.*
- „ *rhomboideus.*
- „ *tumidus.* *Britain.*
- „ *complanatus.*
- „ ? sp. *India.*

Fam. **Unionidæ**. *continued*.*Anadonta cygnea*. *Britain*,*Iridina exotica*. *Mediterranean*.Fam. **Tridacnidæ**.*Hippopus maculatus*. *East Indian Sea*.*Tridacna squamosa*. *Mosambique*.,, *crocea*. *Mauritius*.,, *elongata*. ,,Fam. **Cardiadæ**.*Cardium echinatum*. *Mediterranean*.,, *edule*. *Britain*.,, ,, *var.* ,,,, *Norvegicum*. *Cockle*. *Britania*.Fam. **Cycladidæ**.*Pisidium amnicum*. *Britain*.,, *pusillum*. ,,*Cyclas caliculata*. ,,,, *cornea*. ,,,, *vivicola*. *India*.*Cyrena fuscata*. *India*.Fam. **Cyprinidæ**.*Cyprina Islandica*. *Britain*.

Fam. **Cyprinidæ**. *continued*,

- Cardita calyculata.* *Portofino, Italy.*
 „ *aculeata.* *Mediterranean.*
 „ *antiquata.* „
 „ „ *Indian Ocean.*
 „ (*Actinobolus*.) *ajar.*
Astarte sulcata. *Britain.*
 „ *undata.* *Norway.*
Gouldia minima. *West Indies*
Circe pectinata. *Red Sea.*
 „ *dispar.* „
 „ *lentiginosa.* „
Isocardia multispinosa. *Mediterranean.*
 „ *cor.* „

Fam. **Veneridæ**.

- Cytherea dione.* *West Indies.*
 „ *chione.* *Britain.*
 „ ? *sp.*
 „ *petachialis.* *Indian Ocean.*
 „ *polita.* *South Africa.*
Venus verrucosa. *Britain.*
 „ *lincta.* „
 „ *casina.* „
 „ ? *sp.*
Artemis exoleta. *Skye, Scotland.*
Sunetta scripta. *India,*
Dosinia (Artemis) lincta. ? *Britain*
Venerupis irus. *Britain.*

Fam. **Veneridæ** *continued.*

Tapes decussata. *Britain.*

? *Crista pectinata.*

Actinobolus sulcatus. *Solomon Islands.*

Fam. **Mactridæ.**

Mactra glauca. *Britain.*

„ *stultorum.* „

„ *spengleri.* „

Darina solinoides. *Straits of Magellan.*

Cæcilla cumingiana. *Philippines.*

Fam. **Tellinidæ.**

Tellina polita. *India,*

„ *panata.* „

„ *radiata.* *Mauritius.*

Psammobia vespertina. *Britain.*

Abra tenuis. *Britain.*

Chione fasciata. *India,*

Sanguinolaria tellinoides. *New Zealand,*

„ *sanguinolenta.* „

Strigilla carnaria. *India.*

Soletellina diphos. *Ramleh, Egypt.*

Donax trunculus. *Mediterranean.*

Fam. **Solenidæ**.

Solen ensis. *Britain.*

„ *vagina.* „

„ *siliqua.* „

? *Siliqua ratiata.* „

Fam. **Myacidæ**.

Mya arenaria. *Britain,*

Fam. **Anatinidæ**.

Pandora inæquivalvis. *India.*

„ *rostrata.* *Guernsey.*

Fam. **Pholalidæ**.

Pholas crispata. *Britain.*

„ *bisulcata.* *New Zealand.*

Subkingdom **C E L E N T E R A T A .**Class **A N T H O Z O A .**Order **Corallia.***(Corals.)**Madrepora clathrata. Australia.*,, *verrucosa.**Millepora complanata.**Fungia ? sp. Mushroom-like Coral.**Meandrina ? sp. Brain Coral.**Astræa pallida. Star Coral.**Tubipora musica. Organ Pipe Coral.**Astroides calycularis. Massive Coral.**Antipathes arborea. ? Horny Coral.**Diploria cerebriiformis. Brain Coral.**Corallium rubrum. Red Coral.***P O R I F E R A .**Class **H E X A C T I N E L L A .***(Glass Sponges)**Euplectella aspergillum. Venus' Flower-basket. Zebu,
Philippine Islands.*Class **D E M O S P O N G I A .***(Common Sponges)**Euspongia officinalis. Elephant's Ear Sponge. Adriatic.*

DIVISION 1.

THE NATIVE ELEMENTS

Section 1 - Metals.

Native Gold. *Peru.*

Gold in Quartz. *Scotland.*

„ „ „ *Black Reef, S. Africa.*

„ „ „ *Sheba Mine, „*

„ „ „ *Waitati, New Zealand.*

„ „ „ *Thames, „*

„ „ „ *Maratoto, Thames, New Zealand.*

„ „ „ *S. Australia.*

Small Nugget of Gold. „

Dredged Gold. *Irrawaddy, Burma.*

Auriferous Conglomerate. 'Banket'. *Witwatersland, S. Africa,*

Gold and Copper. *Wheel Turner, S. Australia.*

Native Silver. *Copiapo, Chili,*

„ „ in cube Spar. *Copiapo, Chili.*

Native Copper. *Antofagasta, Chili.*

„ „ *Coquimbo, Chili.*

„ „ *Reciso, Italy.*

„ „ *Champion Mine, Nelson, New, Zealand.*

Native Antimony. *Sarrabus, Sardinia.*

„ „ smelted. „

Section 2 - Non - metallic elements.

Sulphur. *Sicily.*

„ *Solfatara.*

DIVISION 1.

THE NATIVE ELEMENTS

Section 2 - Non-metallic elements *continued.*

Sulphur. *Morcia, Italy.*

„ *Tufo, „*

„ *Vigneria. „*

„ *in Quartz. Sicily.*

Sulphur Crystals. „

Graphite. *Borrowdale.*

„ *Pramollo, Italy.*

DIVISION 2.

THE COMPOUNDS OF METALS WITH ELEMENTS
OF THE ARSENIC AND SULPHUR GROUPS.

Section 1 - The Arseniide Group.

(No Specimens)

Section 2 - The Sulphide Group.

1st Series - The Mono-sulphide Series.

Galena. *Wanlockhead, Scotland.*

„ *Iglesias, Sardinia,*

„ *Transvaal.*

„ *Helvellyn, Britain,*

„ *Sardinia.*

„ *Buffalo River, Zululand.*

DIVISION 2.

Section 2 - The Sulphide Group.

1st Series - The Mono-sulphide Series. continued.

Compact Galena. *Wanlockhead.*

Corroded „ „

Galena with Brown Blende.

Galena and Blende on Quartzose matrix. *Isolotto dei Topi, Italy*

Galena, amorphous *Monte di Rio, Italy,*

Galena with Quartz.

„ „ Pyrites.

„ „ Siderite.

„ „ Chalcopyrite. *Tugela River, Zululand,*

„ in Siliceous Rock.

Argentiferous Galena.

„ „ *Pietrasanta, Italy.*

„ „ *Broken Hill, S. Australia.*

„ „ *San Dalmazzo, Italy.*

Galena with Quartz. *Elba.*

„ crystallized. *Sardinia.*

„ crystallized on Quartz and Fluorite.

Redruthite. *Cornwall.*

Blende - Sulphide of Zinc "*Black Jack*"

„ *Sardinia.*

„ *Ponte di Nozze, near Bergamo, Italy.*

Blende Crystal in Dolomite. *Binn, Switzerland.*

Cinnabar. *Serravezza, Italy.*

„ *Monte Amiata, Italy.*

„ *Thames, New Zealand.*

DIVISION 2.

Section 2 - The Sulphide Group.

*1st Series - The Mono-sulphide Series. continued.*Zinkenite. *Flumini, Sardinia.*Cassiterite. *Swaziland.**2nd Series - The disulphide Series.*Iron Pyrites. *Vigneria, Italy.*" " *Champ de Praz, Italy,*" " *Binn, Switzerland.*" " *Thames, New Zealand.*" " *Premier Diamond Mine, Transvaal.*" " *octahedral. Rio Marino, Elba.*" " *pentagonal dodecahedron. Rio, Elba.*" " *icosahedron. "*" " *cubic. Vigneria.*" " *Crystal. Brosso, near Ivrea, Italy.*" " *Crystals of various form. Elba.*" " *Twin Crystal, pentagonal dodecahedron. Vigneria.*" " *with Quartz.*" " *with Magnetite. San Marcel, Val d'Aosta, Italy.*" " *on Coal.*" " *iridescent with layer of Limonite. Cumberland*

Brown Pyrites of Iron

Hepatic Pyrites, - *pentagonal dodecahedron. Rio, Elba.*" " *cubic. Rio, Elba.*" " *" Lito, Elba.*Metamorphosed Pyrites of Iron. *Cavacce, Rio, Elba.*

DIVISION 2.

Section 2 - The Sulphide Group.

2nd Series - The disulphide Series. continued.

Marcasite or White Iron Pyrites.

Marcasite or White Iron Pyrites, crystallized.

Realgar. *Binn, Switzerland.*

„ in Dolomite matrix with Iron Pyrites & Galena *Binn.*

„ Sartorite and Pyrites in Dolomite. *Binn,*

„ with Orpiment. *Binn.*

„ *Ponte di Nava, Italy,*

Molybdenite. ?

„ *South Africa.*

„ *Burma.*

Lollingite Iron Arsenide).

Hauerite (Disulphide of Manganese). *Sicily.*

3d Series - The Sesquiulphide Series.

Stibnite. *Cornwall.*

„ *Procchio, Italy.*

„ *Sardinia.*

„ *Moanatairi Mines, Thames, New Zealand,*

„ *Rosia Mine, near Siena.*

„ with Calcite & Selenite *Le Cetine di Cotorniano,*

„ altered to Stibiconite. „ „

„ [several duplicates]

Fibrous Stibnite. „ „

Kermesite colouring Selenite Crystals. „

Bismuthinite. *Cumberland.*

Section 3 - The Arseno-sulphide Group.

Mispickel. *Procchio, Italy.*

DIVISION 2.

Section 4. The Sulphur-salts.

- Chalcopyrite, *Pomonte, Italy.*
 „ (several duplicates).
 „ *Namaqualand, South Africa.*
 „ *Monta, Wallaroo, South Australia.*
 „ *Moanatairi Mines, Thames, New Zealand.*
 „ *Striscia, Italy.*
 „ *Buffalo River, South Africa.*
 „ in Chlorite Rock *Riva, Valdobbia, Italy,*
 „ with green Barytes. *Antrona Piana, Italy.*
 „ on Argentiferous Galena.
 „ with Chrysocolla. *Montecatini, Italy.*
 „ on Quartz
 „ with Bismuth, Cobalt, Nickel, Arsenic & Silver.
 „ with Quicksilver.
 „ with square Crystals of Chalcopyrite.
 „ with Quartz and Calcite.
 „ with Erubescite. *Cokiep, Namaqualand.*
- Erubescite. *Cettine Mine, Volterra, Italy.*
 „ *Montecatini, Italy,*
 „ *Mexico.*
 „ *Las Condes, Santiago, Chili.*
 „ with Hornblende. *South Australia.*
 „ *Ookiep, Namaqualand.*
- Copper Ore with Bismuth. Cobalt, Nickel, &c., *Ayer,*
Switzerland.
 „ several specimens.
 „ in Sandstone.

DIVISION 2.

Section 4. The Sulphur-salts.

Dufrenoy'site in Dolomite. *Binn, Switzerland.*

Sartorite in Dolomite. *Binn.*

Binnite in Dolomite. *Binn.*

„ and Realgar in Dolomite. *Binn.*

„ and Blende. *Binn.*

Bournonite. ? *Cornwall.*

Tetrahedrite with Malachite. *Champion Mine, Nelson, N. Z.*

Prousite, a Sulph-arsenite of silver-bright red. *Chili,*

DIVISION 3,

THE COMPOUNDS OF METALS WITH ELEMENTS
OF THE CHLORINE GROUP.

Section 1. - Simple Chlorides, &c.

Cube of Halite, - Common Salt. *Bex, Switzerland,*

Salgemma, Salt Cryst l, (in bottle) *Lungro, Calabria.*

Fluor Spar. *Renfrew's line, Scotland.*

„ „Blue Jo'in" *Yorkshire, England.*

„ in purple cubes. „ „

„ polyhedral. *Cumberland.*

Fluorite on Quartz *Barstow Mine, Ouray, Colorado.*

Fluorite Crystals with Galena Crystals. *Sarrabus, Sardinia.*

Ammonium Chloride. *Vesuvius, - Eruption 1872.*

MINERALS.

DIVISION 3.

Section 2 - Compound Chlorides, &c-

Cryolite or Ice Stone *Greenland,*

DIVISION 4.

THE COMPOUNDS OF OXYGEN.

Section 1 - Oxy-chlorides, &c.

1st Series - Monoxides.

Silicious Oxide of Zinc. *Wanlockhead, Scotland.*

Zincite with Franklinite and Willemitite. *Franklin, N. J.*

Brucite. *Cogne Mine, Aosta, Italy.*

„ *Monte Ramazzo, Borzoli, Italy.*

„ in Serpentine. „ „

Tenorite, a black Oxide of Copper. *Vesuvius. Eruption 1891.*

Red Oxide of Copper on Green Carbonate of Copper.

Cuprite. - Red Copper Ore. *Cornwall.*

„ altered into Malachite. *Las Condes, Santiago, Chili.*

„ with Malachite „ „

2nd Series - Epitrit-oxides

Magnetite, - Magnetic Iron Ore. *Binn.*

„ Crystals in Magnetic Iron Ore. *Binn.*

„ *Val di Tenebro, Elba.*

„ *Rio Marino, Elba.*

„ *Capo Calamita, Elba,*

DIVISION 4.

2nd Series - Epitrit-oxides, continued,

- Magnetite. *Vigneria, Elba.*
 „ *Traversella, Italy.*
 Oxidized Magnetic Iron. *Capo Calamita, Elba.*
 Oxidized Iron, slightly magnetic. „
 Hydroxidized Iron, iridescent. *Rio, Elba.*
 Pleonaste, - a black variety of Spinel. *Monte Soma, Italy.*
 „ in Diallage. *Baldissero, Italy.*
 „ in Peridote. „ „
 Spinel in Sand. *Pizzo, Calabria, Italy.*

3rd Series - Sesquioxides.

- Hæmatite *Whitchaven, England.*
 „ several specimens from *Briton and Elba,*
 „ black. *Muirkirk, Scotland.*
 „ red. *Wanlockhead, Scotland.*
 „ red. *Vesuvius, - Eruption 1891.*
 „ red. *Rio, Elba.*
 „ brown. „
 „ reniform. *Cumberland.*
 „ reniform with nodule. *Whitehaven.*
 „ botryoidal and massive. *Cumberland.*
 „ with Iron Pyrites & Copper *South Australia*
 „ with Iron Pyrites and Gold. „
 Limonite. *Capo Calamita, Elba.*
 „ *Vigneria, Elba.*
 „ with small Pyrites Crystals.

DIVISION 4.

3rd Series - Sesquioxides. continued

- Braunite. *San Marcel Val d'Aosta, Italy.*
 „ crystalized, „ „
 „ (black), with Rhodonite (rose) *San Marcel, Italy.*
 Red Ochre. *Rio Marino, Elba.*
 Yellow Ochre, „ „
 Brown Ochre. ? *Cumberland.*
 Micaceous Iron, called 'Lucellina'. *Rio Marino, Elba.*
 Quartzose iridescent Iron Ore. *Elba.*
 Micaceous iridescent Iron Ore. „ „
 Specular Iron Ore. *Rio Marino, Elba.*
 „ „ „ *South Australia,*
 Oligiste on Lava. *Biancavilla, Sicily.*
 Beauxite. *near Arles, France.*
 Manganite. *Lacona, Italy,*
 Eisenrosen with Wiserine. *Binn.*
 Psilomelane. *Natal.*
 Titaniferous Hæmatite. *San Marcel, Val d'Aosta, Italy.*
 Sapphire Crystal (Corundum). *Ceylon.*
 „ „ with cleavage cut through. *Ceylon.*
 „ „ showing light and dark blue. „ „
 „ „ showing blue and yellow. *Ceylon.*
 Ruby Crystal. *Ceylon.*
 Gems, various from Ceylon
 Asteria - Star Stone. *Ceylon*

4th Series - Dioxides.

,, ,, loose. *Piedmont.*

DIVISION 4.

4th Series, - Dioxides.

Quartz Crystals, large group of, *Monte Rosa, Italy.*

- “ “ containing a drop of liquid. *Lamaia, Elba.*
- “ “ in Statuary Marble. *Carrara, Italy.*
- “ “ with Rhombohedron. *Andermat, Switzerland.*
- “ “ containing scales of Biotite. *Binn.*
- “ “ *Andermat, Binn and other localities.*
- “ “ and Specular Iron Ore on Hæmatite. *Elba.*
- “ “ with Pyrites of Copper.
- “ “ tinged with Oxide of Iron. *Elba.*
- “ “ with incrustation of ?

Rock Crystals.

Sinoke-coloured Rock Crystals. *Arran, Scotland.*

Smoky Quartz. *Cape Sheridan, Grant Land.* (Brought from the furthest North land by Commodore Peary, when he discovered the North Pole - 1909.

Smoky Quartz. *Prati, Waldensian Valleys, Italy.*

“ “ *various localities.*

“ “ *on Hæmatite.*

Black smoky quartz with Albite. *Campo, Elba.*

Twin Quartz. *Andermat, Switzerland.*

Pink Quartz. *Ceylon.*

Pyro Quartz. *Campo, Elba.*

Bi-pyramidal quartz. *Lacina, Elba.*

Iridescent “ “ “

Amethystine “ *Marino di Campo, Elba,*

“ “ *Rio Marino, Elba.*

Part of Geode with Amethyst Crystals and Onyx

DIVISION 4.

4th Series, - Dioxides.

Geode showing Onyx. ? *Switzerland.*

Chalcedony Geode. „

Chalcedony artificially stained blue to imitate Lapis-Lazuli !

„ *Bianco di Castelli, Italy.*

„ *Campo, Elba.*

Group of Smoky Quartz *Albula, Switzerland.*

Cariated vitreous Quartz *Campo, Elba.*

Ferruginous Quartz. *Cairnform, Scotland.*

Manganese. *Portoferraio, Elba.*

„ Ore. *Tugela River, Zululand.*

„ earthy. *Capo della Vita, Elba.*

Manganite. ?

Amethyst Quartz Crystals. *South Devon.*

Pearl Sinter. ? *Sicily.*

Prase. *Ortano, Elba.*

Blue Chrysoprase *Gila Co., Arizona.*

Chrysoberyl, "Cat's Eye". *Ceylon,*

Jasper. *Galston, Scotland,*

„ *Zululand.*

„ *Isola di San Pietro, Sardinia.*

Common Opal. *St. Ilario, Elba,*

„ „ *Premier Diamond Mine, Transvaal.*

Precious Opal. *Queensland, Australia,*

Heliotrope - Blood Stone. *Rum, Scotland.*

„ polished. „ „

Carnelian, *Galston, Scotland.*

Pearlite. *Arran, Scotland.*

DIVISION 4.

4th Series, - Dioxides.

Nigrine - Titanate of Iron. *Vigneria, Elba,*

Semiopal or Resinite. *Capo Calamita, Elba,*

Milky Semiopal. *Campo, Elba.*

Cairngorrom stone. *Scotland.*

Heliotrope cut. *Ceylon.*

Agate, *Ayrshire, Scotland.*

„ *Stirling* „

„ *Montrose,* „

„ various, polished.

Moss Agate. *Jung Frau, Switzerland,*

Fortification Agate. *Elba.*

Agate matrix. *Rossie, Ochil, Scotland.*

Onyx, polished.

Sard, „

Sardonyx and other specimens polished & from various places.

5th Series, - Other acid-forming Oxides-

Section 2, - Oxygen Salts.

1st Series, - Carbonates.

Aragonite. *Wanlockhead, Scotland,*

„ *Leadhills, Scotland.*

DIVISION 4.

Section 2, - Oxygen Salts.

1st Series, - Carbonates. continued,

Aragonite, radiated and mammillary. *Rio, Elba.*

„ on basaltic Lava. *Monte Rossi, Catania, Sicily.*

„ *Monte Ramazzo, Borzoli, Italy.*

„ with Shells.

Fibrous Aragonite. *Bagnaia, Elba,*

Coralloidal Aragonite.

Witherite. *? Cumberland.*

Cerussite, - Carbonate of Lead. *Leadhills, Scotland,*

„ *Wanlockhead, Scotland.*

„ *Montevrechio, Sardinia.*

„ *Monteponi, „*

„ *Mangani Forest, „*

„ compact. „

„ *Broken Hill, South Australia.*

„ on Galena, *Sardinia.*

„ and Galena. *Leadhills.*

„ and Hydrozincite. *Sardinia.*

Cerussa Crystals. *Monteponi, Sardinia.*

Calcite, - Carbonate of Lime. *Wanlockhead.*

„ *Leadhills.*

„ *Inverkeithing.*

„ *Bagnaia, Elba.*

„ *Tugela Valley, Zululand.*

„ *Grotte des Fees, Switzerland.*

„ a number of specimens from various localities.

DIVISION 4.

1st Series, - Carbonates. continued,

- Calcite with Blende. *Rio, Elba.*
 „ on Iron Ore, „
 „ with Iron Pyrites. *Cumberland.*
 „ with Blende and Galena.
 „ with Blende, Galena and Dolomite.
 „ with Chalcopyrites
 „ and Fluorite,
 „ Crystals with Kermesite & Stibnite. *Cetine di
 Cotorniano, Italy.*
 „ Twin Crystal. *Binn.*
 Dog-tooth Calcite. *Scoglietto, Elba.*
 „ „ *Porte Falcone, Elba.*
 Black Calcite with Iron Pyrites.
 Rhomb Calcite.
 Lenticular Calcite.
 Magnesite. *Val della Torre,*
 „ *Baldissero, Italy.*
 „ *Kaapmuiden, Barberton District, S. Africa.*
 Magnesian Stone found imbedded in oxidized Iron Ore.
Capo Calamita, Elba.
 Magnetite with Dolomite. „ „
 Fontainebleau Limestone. *Fontainebleau, France.*
 Pearl Spar, *Leadhills, Scotland.*
 Strontianite. *Strontian, Scotland.*
 Dolomite, triassic. *Rescivatta, Italy.*
 „ *Capo ai Pini, Elba,*
 „ *Isolotto dei Gemini, Elba.*

DIVISION 4.

1st Series, - Carbonates, continued.

Dolomite with Quartz.

„ Crystals. *Binn.*

„ Crystals with Quartz, *Binn.*

Siderite *Bovegno, Italy,*

„ *Valtellina, Italy,*

„ amorphous. *Rio, Elba,*

„ and Specular Iron Ore combined. *Rio, Elba.*

„ and porous Limestone combined. „ „

„ Quartz, &c.. in Magnetite. *Traversella, Italy..*

„ manganiferous *Bovegno, Italy.*

Calamine. *Wanlockhead. Scotland.*

„ *Iglesia, Sardinia.*

„ *Chihuahua, Mexico.*

„ *Ponte di Nozze, Bergamo, Italy.*

„ calcined. „ „ „

„ crystallized. *Sardinia.*

Primary Limestone.

Coralline Limestone.

“Mattone” Limestone, equivalent in Southern Italy of the

Chalk, cr. staceous. *Caprino Veronese, Italy.*

Pelagosit on Dolomite Limestone. *Island of Bergeggi, Italy.*

Hydrozincite or Zinc bloom.

Mesitine and Galena. *Sardinia,*

„ in Pyrites. *Brosso near Ivrea, Italy.*

Pearl Spar. *Lockport, N. J.,*

Rhodochrosite. - Carbonate of Manganese, *Saguace Co., Colo.*

Iceland Spar. *Campo, Elba.*

DIVISION 4.

1st Series, - Carbonates, continued.

Smithsonite, - Zinc Carbonate. *Sardinia.*

Hydromagnesite, - Hydrous magnesium Carbonate. *Monte
Ramazzo, Borzoli, Italy.*

Stalactites. *Finale Marino, Italy.*

Stalagmite. *Antiparos, Cyclades,*

Iron Carbonate, stalactitic. *Procchio, Elba,*

Calcium Carbonate, stalactitic. „ „

Calcareous Tufa. *Harrowgate, England.*

„ „ *Malta.*

Section 2.

2nd Series, - Hydrated Carbonates.

Malachite, - Carbonate of Copper. *Las Condes, Santiago, Chili.*

„ *Kansanshi Mine, N. W. Rhodesia.*

„ *with native Copper and mineral Carbon.*

„ *and cuprite.*

„ *and Chalcopyrite in Hæmatite, Cavarce, Elba.*

Azurite, - Blue Copper Carbonate.

„ *Bisbee, Arizona.*

„ *and Malachite.*

Aurichalcite or Buratite. *Monte di Arenas, Sardinia.*

DIVISION 4.

Section 2 - 3rd Series.

Carbonates combined with Chlorides, &c.

Section 3 - Silicates.

1st Series, - Monoxide bases.

Olivine with Basalt.

„ (pale green) with Spinel (black) and green ? Emerald.

Crocidolite. *Griqualand, S. Africa.*

„ *Kuruman District, Bechuanaland.*

„ asbestiform. „ „

Asbestos, - Amianthus. *Campo, Elba.*

„ *Prati, Waldensian Valleys, Italy.*

„ *Geisspfad, Binnenthal, Switzerland.*

„ on Biotite, „ „

„ on Serpentine.

„ in several forms. *Val Malenco, Italy.*

„ manufactured specimens.

Mountain Cork. *Leadhills, Scotland.*

Wollastonite *Marciano, Elba,*

Rhodonite. *San Marcel, Piedmont, Italy.*

„ - Fowlerite. *Franklin, N. J.*

Apophyllite. *Bor Ghat, India,*

MINERALS.

DIVISION 4.

Section 3 - Silicates, *continued.**1st Series, - Monoxide bases continued.*

- Apophyllite. *Paterson, N. J.*
 „ *Kimberley Mine, Kimberley.*
 „ *with Stilbite. Bor Ghat, India.*
 Meerschaum. *Asia Minor.*
 Potstone. *Inverary, Scotland.*
 „ *Feldbach, Switzerland.*
 Steatite or Soapstone. *Italian Alps..*
 „ *with Serpentine. Rio, Elba.*
 Talc. *Val Chissone, Italy.*
 „ *Feldbach, Switzerland,*
 „ *indurated. England,*
 Serpentine. *Portsoy, Scotland.*
 „ *polished. „*
 „ *with Diallage,*
 „ *with Bastite. Ohinemutu, New Zealand,*
 „ *with Asbestos. Eshowe, Zululand.*
 „ *yellow. Champ de Praz, Val d'Aosta, Italy,*
 „ *noble or precious,*
 Amphibole - Hornblende. *Monte Somma, Italy-*
 „ *and Mica. Binn, Switzerland.*
 „ *and Feldspar. St. Gotthard, Switzerland.*
 „ *in Galena. Sardinia.*
 Tremolite *Torre di Rio, Elba.*
 „ *Gouverneur, N. J.*
 Actinolite. *Gorner Grat, Switzerland.*
 „ *Torre di Rio, Elba.*
 „ *California.*
 „ *Skye, Scotland.*

DIVISION 4.

Section 3 - Silicates, continued.

1st Series, - Monoxide bases continued.

- Häminorphite. *Acqueresi Mine, Sardinia.*
 Diopside. *Capo Calamita, Elba.*
 Pyroxene Crystals. *Anguillare, Lago di Bracciano, Italy.*
 „ with Analcime on Basalt. *Scogli Cicopi, Sicily.*
 Sahlite, variety of Pyroxene, amorphous. *Capo Calamita, Elba.*
 Diallage. *Laceni, Sardinia.*
 Smaragdine with Serpentine. *Rio, Elba.*
 Castorite, or "Castor" (in tube) *Elba.*
 Hypersthene. *Coolins, Skye, Scotland.*
 „ with Augite and Andesite. *Moanataiari Mine*
Thames, New Zealand.
 Spinel (pink) with Wollastonite. *Capo di Bove, Rome.*
 Muscovite, a new species of Diopside. *St. Vincent, Val d'Aosta.*
 Kaolinite. *Cornwall.*
 Violan, a fine blue Diopside. *St. Marcel, Piedmont, Italy.*
 Willemite, a Zinc Silicate, with Franklinite. *Franklin, N. J.*

2nd Series - Sesqui-oxide bases.

- Kyanite. *St. Gotthard, Switzerland.*
 Disthene. „ „
 ? Andalusite. *Campo, Elba,*
 Topaz. *Minas Geraes, Brazil.*
 Rough Topaz. *Ceylon,*

DIVISION 4.

Section 3 - Silicates, *continued.*

3rd Series, - Monoxide and Sesqui-oxide bases.

Garnets, Grossularite, Calcium-aluminium. *Sardinia.*

„ „ „ *St. Gotthard,*

„ „ Crystals entirely covered with Chlorite.
St. Marcel, Val d'Aosta, Italy.

„ „ with Diopside & Chlorite. *Val d'Ala. Italy.*

„ on Mica Schist. *Britain.*

on Diorite. *Monte Catenacci, Elba.*

„ on Hornblendic Serpentine. *Airolo, Switzerland.*

„ with Pyrites. *St. Marcel, Italy.*

„ with Orthose, Quartz, &c. *Piero, Elba.*

., with Mica and Chlorite. *St. Ilario, Elba.*

„ with Epidote and Quartz. *Campo a Peri, Elba.*

„ with Pennine. *St. Ilario, Elba.*

„ with Tourmaline, &c *St. Piero, Elba.*

Iron Garnets. *Capo Calamita, Elba.*

Almandine or Iron Alumina Garnets. *Monte Somma, Italy.*

Melanite Crystals, loose, - black Garnets. *Fosso del Tavolato,*
near Rome.

Spessartite, - manganiferous Garnet, with Piedmontite.

St. Marcel, Val d'Aosta.

Demantoid Garnet. *Binn, Switzerland.*

„ „ in Asbestos. *Val Malenco, Italy.*

Idocrase, - Vesuvianite with Mica, Calcite and Humite.

Monte Somma, Italy.

with Magnetic Iron. *Binn, Switzerland.*

DIVISION 4.

Section 3 - Silicates, *continued.*

3d Series, - Monoxide and Sesqui-oxide bases.

- Ilvaite, Silicate of Iron. *Capo Calamita, Isola d'Elba.*
 „ crystalized. *Torre di Rio, Isola d'Elba.*
 „ amorphous. „ „
 „ *Monte Fico,* „
 Jadite. *Burma.*
 Epidote. *St. Gotthard, Switzerland.*
 „ *Marciana, Elba.*
 „ *Binn, Switzerland.*
 „ Garnets and Quartz. *Campo a Peri, Elba,*
 „ with Apatite. *Knappenwand, Salzburg Alps.*
 Piedmontite with Greenovite. *St. Marcel, Italy.*
 ? Allanite, - a cerium Epidote. *Binn, Switzerland.*
 Mica of different kinds. *Monte Somma, Italy.*
 „ on Quartzose matrix, *Campo, Elba.*
 „ with small rhombohedral Garnets, *Campo, Elba.*
 „ and Mica crystals. *St. Ilario, Elba.*
 „ with Tourmaline. *St. Ilario, Elba.*
 Iron Mica. *Bute, Scotland.*
 Muscovite or common Mica from various localities.
 Margarodite, a tale-like Mica.
 Biotite. *Binn, Switzerland.*
 „ crystals. *Stilo, Calabria.*
 Alurgite with Jadite. *St. Marcel, Val d'Aosta, Italy,*
 Lepidolite, *Elba.*
 Wernerite, - common Scapolite. *Bolton, Mass.*

DIVISION 4.

Section 3 - Silicates, *continued.**3d Series, - Monoxide and Sesqui-oxide bases.*

Leucite on Lava. *Vesuvius, Italy,*

„ crystals, loose. *Fosso del Tavolato, near Rome.*

Pollucite or “Pollux”, in tube along with “Castor”. *Elba.*

Crystals of Leucite & Idrocrase or Vesuvianite. *Monte Somma.*

Orthoclase, - common Feldspar. *Baveno, Italy,*

„ *Campo, Elba.*

„ with Quartz, &c. *St. Ilario, Elba.*

„ with Albite, Garnets & Quartz. *St. Piero, Elba.*

„ with Lepidolite. *St. Ilario, Elba.*

„ with Albite, Quartz, Tourmaline, &c. *St. Ilario.*

Decomposed Feldspar. *? Cornwall.*

Galactite. *Kilmacolm, Scotland.*

„ in matrix. „

Analcite. *Old Kilpatrick, Scotland.*

„ *Skye* „

Microcline, anorthic Potash Feldspar.

Hyalophane. *Binn, Switzerland.*

Plagioclase. or triclinic Feldspar. *St. Piero, Elba.*

„ crystals in volcanic rock.

Albite. or Soda Feldspar. *Campo, Elba,*

„ „ „ *Binn, Switzerland.*

„ with Quartz. „ „

„ with Adularia. „

„ with Quartz and Tourmaline. *St. Piero, Elba.*

Labradorite, a Lime-soda Feldspar. *Labrador.*

DIVISION 4.

Section 3 - Silicates, *continued*.

3d Series, - Monoxide and Sesqui-oxide bases.

- Adularia, a potassium silicate. *Bian, Switzerland.*
 „ with Mica and Rutile. „ „
 „ and Albite with Chlorite. *Binn, Switzerland.*
 „ with Quartz. „ „
 „ with Chlorite. „ „
 „ and Lepidolite. *St. Piero, Elba.*
 Moonstone, soda-lime Feldspar. *Ceylon.*
 Moonstones. rough. „
 „ cut. „
 Meionite, a true unisilicate. *Monte Somma, Italy.*
 Beryls, with smoky Quartz. *St. Piero, Elba.*
 „ in tube. „ „
 Aquamarine, in feldspathic matrix. *Campo, Elba.*
 Prehnite. *Old Kilpatrick, Scotland.*
 „ *Erskine, „*
 „ *Kilmalcolm. „*
 Natrolite, or Needlestone. *Kilmalcolm.*
 „ *Skye, Scotland.*
 „ *Bor Ghat, India..*
 „ *Kimberley, S. Africa.*
 „ on Basalt. *Scogli Ciclopi, Sicily,*
 Analcime on Basalt „ „
 „ „ *Aci-Castello, Sicily.*
 Laumonite. *Old Kilpatrick.*
 „ *Kilmalcolm.*

DIVISION 4.

Section 3 - Silicates, *continued.**3d Series, - Monoxide and Sesqui-oxide bases.*Chabasite. *Kilmalcolm, Scotland.*,, angles and edges modified. *Kilmalcolm.*

Red Chabasite. ,,

Chabasite, Hewlandite & Stilbite. *Cape Split, Nova Scotia.*Harmotome or Cross-Stone. *Old Kilpatrick.*,, ,, *Lochwinnoch.*,, ,, *Strontian, Scotland.*Stilbite. *Kilmalcolm,*,, *Bor Ghat, India.*,, *Paterson, N. J.*,, with Calcite. *Bor Ghat, India.*

Radiating Stilbite.

Red Stilbite. *Old Kilpatrick,*Hewlandite. *Kilmalcolm.*Red Hewlandite. *Old Kilpatrick.*

Thomsonite. ,,

,, terminated. ,,

Brewsterite. *Strontian, Scotland.*

Chlorite with Hornblende and Garnets.

Pyrosclerite in talcose matrix. *Portoferraio, Elba.*Clinochlore. *Bute, Scotland.*Thulite, a variety of Zoisite with Diallage. *Monte Catenacci, Elba,**N.B., - Beside the above-named specimens, there are many duplicates*

DIVISION 4.

Section 4 - Silicates. *continued.*

1st Series, - Silicates combined with Sulphides, Chlorides, &c.

No specimens.

2nd Series, - Silicates combined with Borates.

Tourmaline. *Bian, Switzerland.*

„ with Granite.

„ and Quartz.

„ in Mica Schist. *Ntunje, Umfuli Valley, Zululand.*

„ Orthose, Albite &c. in Granite. *St. Ilario, Elba.*

„ Quartz and Orthose. „ „

Various Tourmalines in tube, along with Beryls. *Elba.*

Black Tourmaline. *Madagascar.*

„ „ *Forcioni, Elba.*

„ „ with Ilvaite. *Campo, Elba.*

„ „ with granitic Porphyry. *Iouira, Elba.*

Axinite. *St. Gotthard, Switzerland.*

Datolite, Silico-borate of Lime, with Scolecite. *Casazza,
Liguria, Italy,*

Datolite, with Scolecite and Calcite. „

3rd Series, - Silicates combined with Sulphates.

Lapis-lazuli. *Monte Somma, Italy.*

„ *Pyrenees.*

Haunynite, with Leucite. *Fosso del Tavolato, Italy.*

DIVISION 4.

Section 5 - Titanates, &c.

Titanate. *St. Gotthard, Switzerland.*

Section 6 - Molybdates and Tungstates.

Wolframite. *Tavoy, Lower Burma.*

Section 7.

1st Series, - Chromates and Sulphates.

Celestite. *Girgenti, Sicily.*

„ with native Sulphur. *Sicily.*

„ crystals on Sulphur. *Girgenti, Sicily.*

Barytes, or Heavy Spar. *Wanlockhead, Scotland.*

„ „ *Lochwinnoch, Scotland.*

„ „ with Calc Spar.

„ „ on metamorphic Slate. *Helvellyn.*

„ „ stalactitic form.

„ „ stalactitic brown variety.

„ „ sprinkled with particles of Copper
Pyrites.

„ „ brownish red variety.

„ „ with Muscorite.

„ „ with sphenoides of Copper.

„ „ with Pyrites. *Courmayeur, Italy.*

DIVISION 4.

Section 7.

1st Series, - Chromates and Sulphates. continued.

Anglesite, with Azurite & Malachite. *Broken Hill, Australia.*

„ six specimens. *Sardinia.*

Lanarkite. *Leadhills, Scotland.*

2nd Series, - Hydrated Sulphates.

Gypsum or Selenite. *Elba.*

„ „ *Pisogna, Italy.*

„ „ *San Giorgio di Canale, Italy.*

„ „ *Thames, New Zealand.*

„ „ crystallized.

„ „ Crystal. *Striscia, Tuscany.*

„ „ „ *Castellina Marittima, Elba.*

„ with covering of Asbestos. *Val Malenco, Italy.*

Massive Gypsum.

Fibrous Gypsum, or Satin Spar. *Niagara Falls.*

„ „ ? *Scotland.*

Onyx-like Satin Spar. *Brazil.*

Twin Crystal of Selenite, with penetrating Crystals of
Sulphur. *Sicily.*

Gypsum, Sulphur and Celestite. *Cafabri, Italy.*

Gypseous Alabaster. *Castellino, Tuscany.*

Statuary Alabaster. *Urbino, Italy.*

Aluminium Sulphate. *Rio, Elba,*

DIVISION 4.

Section 7.

2nd Series, - Hydrated Sulphates. continued.

Calcium Sulphate. *Capo Calamita, Elba.*

„ „ on ferruginous matrix. *Capo Calamita, Elba.*
Sulphate of Iron, with specular Iron Ore (Oligiste) on
quartzose matrix. *Vigneria, Elba.*

Pickeringite. (in glass Jar) *Rio Antennua, Elba.*

Fibroferrite. *Le Citine di Cotorniano, Italy.*

Brochantite. *Tocopilla, Chili.*

Linarite, cupreous Sulphate of Lead. *Wanlockhead, Scotland.*

3rd Series, - Sulphates combined with other Salts.

Caledonite. with Pyromorphite. *Leadhills, Scotland.*

Leadhillite. „ „

Section 8. *1st Series, - Borates.*

No specimens.

2nd Series, - Hydrated Borates.

No specimens.

DIVISION 4.

Section 8 *3rd Series, - Borates combined with Chlorides, &c.*

No specimens.

Section 9 *Nitrates.*

Nitrate of Potash, or Saltpetre. *East Indies.*

Nitratine, or Nitrate of Soda. *Iqu'iqui, Peru.*

Section 10.

1st Series, - Phosphates, Arsenates and Vanadates.

Turquoise. *Ceylon.*

Chalcophyllite. *Cornwall.*

Stercorite. *From the Guano on the Chincha Islands, Peru.*

Guanoxalite. *Chincha Islands, Peru.*

Guanapite. " " "

Oxammite. " " "

Copper Phosphate.

Tobernite. *Cornwall.*

Pharmacosiderite. *Cornwall.*

Autunite. *Nivolano Mine near Mondovi, Italy.*

(*Ten tons of pure Autunite yield one gramme of Radium.*)

2nd Series, - Phosphates, &c. combined with Chlorides, &c.

Apatite. *Canada.*

DIVISION 4.

Section 10.

2nd Series, - Phosphates, &c. combined with Chlorides, &c.

- Phosphorite. *Curacao, Dutch W. India Islands.*
 „ *Spain.*
 „ *Charleston, U. S. A.*
 Pyromorphite, - Phosphate of Lead. *Gennamari, Sardinia.*
 „ *green. Wanlockhead, Scotland.*
 „ *yellow. Leadhills, Scotland.*
 „ *with Carbonate of Lead.*
 „ *with cupreous Carbonate of Lead. Cumberland.*
 Mimetite, - Arseniate of Lead. *Cumberland, England.*
 „ „ „ *Wanlockhead, Scotland.*

The following Minerals &c. were obtained in **Burma**.

At the Ruby Mines.

Corundum Crystals.

„ „ slightly tinged red.

„ small piece showing two colours.

Ruby Crystal.

Five small Rubies.

Crystalline Limestone in which Rubies are found.

„ „ with a Ruby in situ.

Red Spinel. And Green Spinel.

Spinel Crystals.

Twin Spinel Crystal.

Iolite showing dichroism.

Tourmaline.

Black Tourmaline.

Apatite.

Zircon.

Gem-bearing Gravel,

Fragments of Garnets.

Fragments of various Gems.

At Bhamo.

Green Jadite and White Jadite,

Green Jadite Ear-ring.

Polished Jadite Letter-press presented to me by the Head
of the Chinese Community at Bhamo.

Four Jadite Beads showing different colours.

Platinum from the Irrawaddy.

Four constructed Rubies bought at Rangoon.

Tracks.

Worm Track. *Oolite*.

Plantae.

Lepidodendron sternbergii. *British Coal Measures.*

„ *elegans.* „ „ „

„ ?sp. „ „ „

Calamites nodosus. „ „ „

„ *pseudo-bambusia.* „ „ „

„ *approximatus.* „ „ „

Sigillaria oculata. „ „ „

„ *complanata.* „ „ „

„ ?sp. „ „ „

Stigmaria ficoides. (Root of *Sigillaria*) „

Sagenaria ? sp. „ „

Anthracemys ? sp. „ „

Favularia ? sp. „ „

„ impressions of, in Sandstone.

Sternbergia. The pith of the coniferous tree *Dadoxylon.*

British Coal Measures.

Petrified wood. *Australia.*

„ „ *Walsh River, North Queensland.*

„ „ *near Cairo.*

Semi-carbonized Wood. *British Coal Measures.*

„ „ *India.*

Silicified Wood. *California.*

„ „ (eccentric, like *Causurina equisetifolia*, the
“She Oak” of Australia). *New Zealand.*

Dipterocarpon burmense, *Irrawaddy bed, Burma.*

Plantae *continued.*

Phyllothea ?sp. *Oolite.*

Psilophyton ? princeps. *Perthshire, Scotland.*

„ robustum. „ „

Chondrites intricatus, *Crocefieschi, Italy.*

„ „ *Bordighera, Italy.*

„ affinis „ „

Vegetable impressions in Clay. *Lausanne, Switzerland.*

„ „ in Coal Shale. (?*Filicites plumosus*),
British Coal Measures.

Leaf impressions *Liguria, Italy.*

Fine series of Fern impressions in Clay nodules. *Bagshot Sands.*

Fern impressions on Clay Ironstone. *Britain.*

„ „ „ „ „ partially burnt. *Britain.*

„ „ on Slate. *Britain.*

Limestone with Calcite nodules formed of Algae. *Malta.*

Protozoa.

Heterostegina depressa. (or ? costata) *Malta.*

Favosites columnopora, crystallized. *Ordovician, Britain.*

Nummulites personata. *La Mortola, Ventimiglia, Italy.*

„ ? sp. eroded and showing septa. „

„ different species from *Liguria, Mentone & Biarritz*

Porifera.

Various Sponges, not named. *Mentone.*

? Choanites. *Roquebrun, near Mentone.*

C o e l e n t e r a .

Fossilized Coral. *Malta.*

Caryophyllia borealis. Cup-shaped Coral. *Ventimiglia, Italy.*

Coral in Lias. *near Mentone.*

Other Corals not named, from *La Mortola, Mentone & Gorbio.*

Turbinolia humilis. Apose Coral. *Liguria, Italy.*

Mentlivaltia trochoidea. *near Mentone.*

Parasmilia centralis. " "

Lithodendron fasciculatum. Coralline Limestone.

Clisiophyllum fungites. *Carboniferous Limestone.*

Lithostrotion martini. " "

*The following Graptolites are from the Mudstones of the
Silurian Rocks of the Southern Uplands of Scotland.*

Monograptus sedgwicki. *Birkhill Shales.*

" triangulatus, " "

" lobiferous. *Birkhills.*

Rastrites peregrinus. "

Rastrites, &c. *Birkhill Shales,*

Petalograptus folium. *Birkhill Shales.*

Dawsonia campanulata. *Birkhills.*

Diplograptus, &c. "

" foliaceus. *Lower Hartfell.*

" corynoides, &c. "

" bimucronatus *Glenkiln Shales.*

" foliaceus. *Zincaris zone of the Hartfells.*

Pleurograptus linearis. " " " "

Leptograptus flaccidus. " " " "

Dicranograptus zicxac. *Glenkiln Shales.*

" nicholsoni. *Lower Hartfell Shales.*

Coelentera.

List of Graptolites continued.

- Climacograptus ? sp. *Lower Hartfell Shales.*
 „ bicornis, „ „
 „ wilsoni. *Wilsoni zone of the Hartfells.*
 „ scalaris, *Birkhill Shales, Moffat.*
 Didymograptus superstes. *Glenkiln Shales.*
 Dicellograptus ? sp. *Hartfells, Hartfell, Moffat.*
 „ sextans. *Glenkiln Shales.*
 Corynoides calicularis. *Hartfells, Hartfell, Moffat.*
 Cœnograptus gracilis. *Glenkiln Shales.*

Echinoderma.

- Micaster cor-anguinum. *Chalk, Britain.*
 „ cortestudinarium. *White Chalk near Paris.*
 Galerites albogalerus. *Chalk.*
 „ hemisphericus. *Lower Oolite,*
 Hyboclypeus clunicularis. *Coral Oolite.*
 Clypeus sinuatus. *Lower Oolite.*
 Clypeaster altus. *Malta.*
 „ lagonoides. *Finl Marina, Italy.*
 Ananchytes ovatus. *Chalk, Britain.*
 Holoaster lævis. *Gault, France.*
 „ subglobosus. *Mentone.*
 Diadema granulosum. *Lias, Britain.*
 Acrocidaris nobilis. *Mentone.*
 Stenonia tuberculata. *Upper Cretaceous, near Mentone.*
 Scutella subrotundata. *Malta.*

Echinoderma. *continued.*

Schizaster archiaci. *Malta.*

Eupatagus keninck. *Malta.*

Echinolampus scutiformis.

Spine of Sea Urchin, - Cidarid or ? Hemicidarid. *Liguria.*

„ „ „ „ Cidarid florigemma. *Coral Rag.*

„ „ „ „ Cidarid ? coronata. „

„ „ „ „ ? *France.*

Fragments of Sea Urchins. *Dax, France.*

Sea Urchin, un-named. *Britain,*

„ „ „ *Coral Rag, France.*

„ „ „ *St. Emilian, France.*

Encrinural Limestone. *Britain.*

Extracrinus briareus.

Pentacrinus ? sp. Stem-joints of, *Valley of the Maddon.*

? Extracrinus fossilis. *Lias of Lyne Regis.*

Apiocrinites rotundus., - Pearl Encrinurite, over-grown with
Bryozoan (? Diastopora diluviana). *Bradford Clay.*

Fragments of Stems and Arms of British Crinoids *Coal*
Measures, Fife, Scotland.

„ „ ditto *Loch Erne shore, Scotland.*

Annelida.

Serpula spirulæa. *Tertiary, Biarritz.*

„ ? sp. *Dax, France.*

Polyzoa.

Lunulites Goldfussi. *Miocene, France.*

Polyzoa. *continued*

? *Cycleria scala*. *Tertiary, India.*

Fragment of a *Zoarium*. *France.*

Mollusca.

Cephalopoda.

Nautilus decipiens. *near Mentone.*

Hamites attenuatus. *Gault and Greensand.*

„ *rotundus*. „ „ „

Arietites spiritissimus, cast of, *Lias.*

Amaltheus margaritatus. *Middle Lias.*

Harpoceras murchisoniæ.

„ *radians*.

Haploceras arolicum.

Dactylioceras commune. *Upper Lias.*

„ „ tinged with *Marcasite*. *Whitby, England.*

„ „ cut and polished. „ „

Stephanoceras humphriesianum. *Upper Lias, Fraissac, France.*

Aspidoceras basilicæ.

Hoplites tuberculatus.

„ ? sp. *Ganges.*

Ammonites communis. *Upper Lias, Britain,*

„ ? *biplex*. *Coralline Oolite.*

„ *bifrons*. *Upper Lias.*

„ *armatus*. *Jurassic.*

„ *cristatus*.

„ *rostratus*.

Cephalopoda. *continued.*

Ammonites jason in Clay nodule, cut and polished.

Oxford Clay.

„ annulatus. *Upper Jurassic Beds, Filey Bay, England.*

„ herveyi.

„ ? sp. *Monte della Castellana, Spezia.*

„ ? sp. impressions of, *Monte Baldo, Italy.*

„ various species from *Pabba & Sculpay in Scotland,*
the Ganges and other localities.

Aptychus latus, ? operculum of an Ammonite. *Herault, France.*

Belemnites acutus. *Lias, Britain.*

„ minimus, *Gault and Greensand.*

„ puzo-ianus. *Oxford Clay.*

„ various species not named.

Phragmacone of Belemnite. *France.*

Placenticeras ? sp. *Ganges.*

Stephanoceras linguiferus. *Ganges.*

Gasteropoda.

Strombus mercati. *Tertiary Marl underlying Genoa.*

Murex trunculus. „ „

Typhis horridus. „ „

Triton granosum.. *Dax, France.*

Ranella marginata. *Marl, Genoa.*

„ „ *Liguria, Italy.*

Cancellaria angulata. *France.*

Pyrula tudicula. „

Fusus longævus. *London Clay.*

„ variosissimus. *France.*

Gasteropoda. *continued.*

- Fusus spinefer.* *Dax, France.*
 „ *rugosus.* *Red Crag, Felixstowe, England.*
 „ *contrarius.* „ „ „
 „ three species un-named. *Dax, France.*
Chrysodomus contrarius. *Red Crag, England.*
Terebra tuberculifera. *France.*
 „ ? *acuminata.* „
 „ *portlandica,* interior cast of, *Inferior Oolite.*
Pseudoliva elegans. *Nagpur, India.*
Purpura tetragona. *Norwich Crag.*
Cassidaria echinophora. *Genoa.*
Ancillaria ? sp. *France.*
Conus antidiluvianus. *France.*
 „ *mercati.* „
 „ ? *sp.* „
Pleurotoma filosa.
Voluta multicarinata *Lower Eocene, Nagpur, India.*
 „ *conocarinata.* „ „ „
 „ *minima.* „ „ „
 „ ? *sp.* *France.*
 „ cast of, *Malta.*
Cypræa ? sp. *France.*
Natica helicina. *Genoa.*
 „ (*Ampulina*) *patula.* *Calcaire Grossiere, France.*
 „ *catena.* *Red Crag, Felixstowe.*
 „ *stoddardi.* *Nagpur, India.*
 „ two specimens un-named. *Dax.*
Vicarya fusiformis. *Nagpur, India.*
Potamides margaritaceum. *Lausanne.*

Gasteropoda. *continued.*

- Cerithium mutabile. *Eocene.*
 „ cinctum. *South France.*
 „ multifforme. *Nagpur, India.*
 „ subcylindracum. „ „
 Melania hunteri. *Lower Eocene, Nagpur.*
 „ quadrilinea. „ „ „
 „ casts only. „ „ „
 Turritella turris *Genoa.*
 „ tornata. *France.*
 „ ? sp. „
 „ incrassata, *Red Crag, Felixstowe.*
 „ pralonga. *Nagpur.*
 Vermetus ? sp. *Carboniferous Limestone, Britain.*
 Solarium multigranosum. *Dax, France.*
 Valvata ? sp.
 Paludina soluta. *Lower Eocene, Nagpur, India.*
 „ subcylindraca. „ „ „
 „ rowlsi. „ „ „
 „ whapsharei. „ „ „
 „ deccanensis. „ „ „
 „ concoidea. „ „ „
 „ acicularis. „ „ „
 „ sankeyi. „ „ „
 „ virapai. „ „ „
 Turbo rugosus, *Genoa.*
 „ ? sp. *Ganges.*
 Pleurotomaria polita.
 „ reticulata.
 Raphistoma (Daphnella) acanthoplecta. *Liguria, Italy.*

Gasteropoda. *continued.*

Fissurella gibberula.

Bulla ? sp. *Oolite.*

Calyptraea ? sp. *Dax, France.*

Planorbis castrensis, *Rocher de Lunel, France.*

„ euemphalus. *South France.*

Limnaea tilankhidiensis. *Lower Eocene, Nagpur.*

„ spina. „ „

„ ? subulata. „ „

„ castrensis. *Castres, France.*

Physa prinsepii. var. normalis. *Nagpur.*

„ „ with calcareous crystals.

„ ? sp. „ „

„ var. elongata. *Nagpur.*

„ bustenii. *Gault and Greensand.*

„ several species un-named.

Typhis fistula. *Dax, France.*

The following Gasteropoda are all from the Tertiary formation along the Riviera of Italy and France.

Cerithium vulgatum, var. granodoliguistica.

„ „ var. subsimplex.

Haustator vermicularis.

Torculoidella subvaricosa.

Turritella tricarnata, var. pseudocarinata.

Pleurotoma gastaldi.

„ vermicularis. ? var.

„ turricula.

„ striatissima.

Gasteropoda. continued.

Pleuotoma rotata.

„ *captata.*

Terebralia dertonensis. var. *plurisulculellata.*

Zaria subangulata. var. *depressecarinata.*

„ „ var. *spirata.*

„ „ var. *laevirobundula.*

Nassa perpulcra.

„ *bisotensis.*

„ *semistriata.*

Drillia allionii. var. *pliosubspirata,*

„ *parilina.*

„ *costæ.*

„ *carinata.*

Surcula dimidiata. var. *mioperstriata.*

„ *coquandi.*

„ *de stefani.*

„ *Jani Bell.* var. *peracutocarinata.*

„ ? sp.

„ *lathyriformis.*

„ *cocconii.*

Clathurella luisæ.

„ *scalaria.*

Bellardiella gracilis.

Uromitra cupressina.

„ *cognata.*

Mathilda quadricarinata.

Archimediella archimedis, var. *miocenica.*

Columbella abbreviata.

„ *nassoides.*

Gasteropoda. *continued.*

Columbella transiens.

„ (*Mitrella*) *linguloides.*

„ *vicina.*

„ *semiplicata.* and other species not named.

Crenisutura (*Columbella*) *carinata.*

Clavatula seminuda.

„ *gothica.*

„ *silvestris.*

„ *gradata.* var. *carinulata.*

Chenopus uttingerianus. var. *ornatissima.*

Tympanotomus conjunctoturris.

Mitra exarata.

„ *megaspira.*

„ *villalvernensis.*

Rouaultia lapugyensis.

Clinura trochlearis.

Pyrgolampros perplicatotorquatus.

Dentalium, various species.

Petalconchus intortus.

Conospirus antediluvianus.

„ „ var. *dertogranosa.*

„ *du jardini.*

Lithoconus mercatii.

Chelyconus deshaysi. var. *ponderovata.*

Strombus nodosus. var. *mediocanaliculata.*

Latirus subfimbriatus. var. *crebicostata.*

„ *affinus.*

„ *concinus.*

Mitrella erythrostoma.

Gasteropoda. continued.

Mitrella complanata.

? *Littorina pagodus.*

Triton apenninicum.

Bulla subamipulla.

Fissurella italica.

„ „ *var. parvulina.*

Polinices miocolligees.

Solarium lyelli.

Ficula reticulata.

Patella neglecta.

Olivella longispirata.

Pleurotoma archimedis.

„ *desita.*

„ *subnuda.*

? *Solariella peregrina.*

Pseudotoma lævis.

Murex confragus.

Ptychocerithium tuberculatum.

Trivia europæa.

Niso terebellum. var. pygmæa.

Helix vermicularia,

„ (*Zenobia*) *carinatissima.*

Natica epiglottina.

Fusus ? sp.

Scalaria (Clathrus) communis.

Ringiculella auriculata.

Teres anceps.

Coralliophila fusiformis.

Gasteropoda. *continued.*

Polia meyeri.

Homotoma tumens.

Eulimella scilla var. *magnoligustia.*

Fissurella gibberula.

Typhis horridus.

Raphitoma acanthoplecta.

Pteropoda.

Cleodora pyramidata. *Liguria, Italy.*

Brachiopoda.

Terebratula sinuosa. *Malta.*

„ *octoplicata.* *Ganges.*

„ *ornithocephala.* *Gault and Greensand.*

„ *infra-oolitica,* *Great Oolite, Bath, England.*

„ *carnea.* *Chalk, England.*

„ *digena,* showing loops. *Oolite.*

„ *bullata.* *Greensand.*

„ ? sp. *Malta.*

„ ? sp. *Coral Rag, France.*

„ various species. *Upper Greensand.*

„ „ „ from various localities.

Rhynchonella plicata. *Great Oolite, Bath, England.*

„ *octoplicata.* *Chalk.*

„ *reniformis.* *Carboniferous Limestone.*

Brachiopoda. *continued.*

- Rhynchonella* ? sp. *Great Oolite, Bath, England.*
 „ ? sp. *Coral Rag, France.*
 „ ? *Upper Greensand.*
 „ various species, principally from the *Lias.*
Productus giganteus. var. *Carboniferous Limestone.*
 „ *semireticulatus.* in *Carboniferous Limestone.*
 „ *punctatus.*
Lingula anatina. *Greensand Bed, Carrei Valley.*
 „ *lewisii.*
Leptæna rhomboidalis. in *Encrinure Limestone.*

Conchifera.

- Ostræa longirostris.* *Liguria.*
 „ *gregaria.* *Coral Rag.*
 „ *marshii.* *Oolite.*
 „ *boblayei.*
 „ *edulis,* var. *lamellosa.* *Striscia, Tuscany.*
 „ „ var. *subglobosa.* *Liguria, Italy.*
 „ „ var. *foliosa.* „
 „ ? sp. *Waddy Hoff, near Helwan, Egypt.*
 „ ? sp. *Scalpay, Scotland.*
 „ cast of, showing beautifully the grain of the *Oolite.*
 „ several species from various localities.
Alectryonia gregaria. *Oxfordian.*
Graphæa incurva. *Lias, Britain.*
 „ *arcuata.* *Pabba Island, Scotland.*
 „ (*Pycnodonta*) *cochlear,* var. *navicularis.* *Gorbio.*
 „ several species from different localities.

Conchifera, continued.

- Pecten latissimus. *Marl underlying Genoa.*
 „ orbicularis. *Upper Green Sandstone.*
 „ opercularis. *Porto d'Anzio, Italy.*
 „ peregrinus.
 „ burdigalensis. *Malta.*
 „ varius. *Liguria, Italy.*
 „ islandicus. *Greenock, Scotland.*
 „ vimineus.
 „ cristatocestatus. *Liguria.*
 „ inequicostatus. „
 „ quinquecostatus. „
 „ spinosovatus. *Mentone.*
 „ subtexterius.
 „ gracilis. *Red Crag, Felixstowe.*
 „ plebeus. *Bordighera, Italy.*
 „ ? sp. *Biarritz.*
 „ ? sp. *Upper Jurassic Beds, Filey Bay, England.*
 „ several species un-named. *Malta.*
 Hinnites objectus. *Berwick, Scotland.*
 Aequipecten scabrellus. *Liguria.*
 „ multiscabrellus. *Spezia.*
 „ opercularis, var. *lævigatoides, Liguria.*
 „ several other varieties *Liguria.*
 Flabellipecten flabelliformis.
 Lima cardiformis. *Oolite.*
 „ semicircularis. *Middle Oolite.*
 „ rigida. „
 „ proboscidea. *Oolite.*
 „ (Plagiostoma) cardiformis, *Oamaru, New Zealand.*

Conchifera, *continued.*

- Lima (Plagiostoma) cardiformis) *Liguria.*
 Spondylus gædaropus. Thorny Oyster. *Genoa.*
 " " " *Liguria.*
 " ? sp. *Biarritz.*
 Avicula pecten. *Oolite.*
 Gervillia menotis. "
 " ? sp. "
 Inoceramus sulcatus. *Gault and Greensand.*
 " ? sp.
 Pinna ampla.
 " " portion of,
 Mytilus unguiculatus. *Upper Jurassic Beds, Filey Bay.*
 " ? sp.
 Arca diluvii. *Bordighera, Italy.*
 " barbatula. *Dac, France.*
 Pectunculus glyciremis. *Tertiary Marl, Genoa.*
 " ? sp. *Malta.*
 Nucula placentina. *Liguria.*
 " nulleus. "
 " ovata. *Gault and Greensand.*
 Parallelodon hirsonensis. *Great Oolite.*
 ? Lemulus pella. *Liguria.*
 Trigonía flecta. *Oolite.*
 " gibbosa. *Middle Oolite.*
 " costata. "
 " ? sp.
 Unio deccanensis.
 " imbricatus.
 " mamillatus.

Conchifera, *continued*.

Unio hunteri.

„ *carteri*. *Inferior Oolite*.

„ *valdensis*. *Weald Clay*.

Chama, two casts of, *Dac, France*.

Cardium echinatum. *Dac, France*.

„ ? sp. cast of, *Malta*.

Venericardia planicosta, portion of,

„ ? sp. *Otahaiti, Waitaki, New Zealand*.

Corbis ? sp. *Dac, France*,

Astarte sulcata. *Liguria*.

„ *solidula*.

„ *burtinii*. *Oolite*.

Crassatella ponderosa, cast of, *Calcaire grossier, near Paris*.

„ *sulcata*. *Jurassic Beds, Filey Bay, England*.

„ ? sp. *France*.

Crassatellites plumbea.

Isocardia minima. *Oolite*.

„ ? sp. „

Cardita sulcata. *Malta*.

„ ? sp. *France*.

Venus ? sp. *France*.

Pitar rudis. *Liguria*.

Tapes perovalis. *Oolite*.

„ *gregaria*, cast of, *Malta*.

Tellina lata. *Norwich Crag*.

„ *proxima*. *Red Crag, Felixstowe*.

„ ? sp. *Malta*.

Donax minimus. *Liguria*.

Cuspidaria rostrata. *Liguria*.

Conchifera, continued.

Corbula ? sp. *Dax, France.*

Pholadomya ? sp. *Oolite.*

„ *fidicula. Lower Oolite.*

„ *paschi.*

Gresslya latirostris. Lower Oolite.

Lysianassa V-scriptum. „

Pholas in its burrow. *Oamaru, New Zealand.*

Arthropoda.

Neseuretus, a Trilobite. *Tremadoc Beds, Ramsey Island, Wales.*

Miscellaneous Fossils not classified.

Pterichthys Milleri, labelled by Hugh Miller. *Cromarty.*

? *Pachylebias*. Fossil Fish. *Tertiary, France.*

Vertebral bone of Shark. *Malta.*

Fossil Teeth, *British Coal Measures.*

Shark's Teeth, various species. *Malta.*

Chrysophrys cineta, anterior Teeth of, *Sardinia.*

Oxyrhina hastalis, Teeth of, „

Scales and Teeth of Fish. *Craigend, Polmoat, Scotland.*

Ear-bone of *Balæna emarginata*. *Felixstowe, England.*

Gyracanthus formosus. *Coal Measures, England.*

Rib in Calcareous ossiferous Breccia. *Malta.*

Fossil Bones, cancellated structure.

Fossil Bone, supposed human, from an ancient tomb said to be Phœnician in the *Isla ul of Bahrein, Persian Gulf*.

Fossil Ivory, part of Tusk of Mammoth (*Elephas primigenius*)
found when digging for the dry docks at *Leghorna*.

Coprolites. *Scotland.*

Fossiliferous Clay. Three specimens.

Fragments of Shells in Clay.

Various Shells in *Lias Liomestne*,

Small fossil Shells in tube. *India.*

Fragments of Pentacrinite and Calamite.

Various kinds of Operculæ.

Coral Reef. Grasse, France.

ROCKS,

Arenaeous.

Sandstone. *Red Mountain, near Cairo.*

Red Sandstone. *Dunkeld, Scotland.*

“ “ with small white grains. *Mentieth, Scotland.*

Old Red Sandstone. *Bankfoot, Scotland.*

Fine grained Sandstone. *Alsace.*

Coarse grained “ “

Micaceous “ *Lake of Mentieth, Scotland.*

Calcareous “ showing Pecten. *Finale, Italy.*

Sandstone tinged with Chlorite, *Bankfoot, Scotland.*

Argillaceous.

Slate. *Recco, Italy.*

“ with Chlorite bands. *Glen Garr, Scotland.*

“ with Quartz and Chlorite. “ “

Chloritic Slate. *Glen Garr, Scotland.*

Crystalline Slate. *Veslevangen, Norway.*

Calcareous.

Limestone, used for Quick Lime. *Campoligure, Italy.*

“ from the Pyramid of Chephren, *Egypt.*

Calcareous Limestone. *Malta.*

Encrinal “ *near Mentone, France.*

Massive “ *Mount Serapis, Tyrol.*

Nummulitic “ *Hills near Cairo.*

“ “ from the Pyramid of Cheops, *Egypt,*

“ “ *La Mortola, Ventimiglia, Italy.*

Crystalline “ *Sella Joch, Tyrol.*

Caleareous, *continued.*

Pietra di Mezzano, a compact Limestone. *Brescia, Italy.*

Concretion of Carbonate of Lime, resembling Coral. *Frejus, Switzerland.*

Pudding-Stone, *Portofino, near Genoa.*

Dolomite, several specimens. *Binn, Switzerland.*

Calcitic Dolomite. *St. Ulrich, Tyrol.*

Gypsum. *Corfu.*

„ *La Striscia, Tuscany, Italy.*

Tufo. *Appian Way, Rome.*

Calcareous Tufo. *Tivoli, near Rome.*

Travertine, with dicotyledinous leaves. *Tivoli.*

Alabaster, from the Temple of the Sphinx, *Egypt.*

African Alabaster.

Alabastrite, two specimens. *Castelnuovo dell'Abate, Italy.*

Selenite. *Niagara.*

Calcareous Conglomerate. *Crocefieschi, Italy.*

White Marble. *Waldensian Valleys, Italy.*

„ „ *North Burma.*

„ „ *saccharoid. Carrara, Italy.*

Gray primary Marble, of which Gibraltar Rock is formed.

Bardiglio Marble. *Carrara, Italy.*

Dove „ „

Brocatello di Siena. *Italy.*

Blair Athol Marble. *Scotland.*

Kilkenny „ *Ireland.*

Victoria „

Tiree „ *Scotland.*

California „

Rosso di Prato „ *Italy.*

Calcareous, *continued.*

Rosso di Levanto Marble.	<i>Italy.</i>
Verde di Polcevera	„ „
Black and gold	„ „
Veined	„ „
African	„ „
Rouge Royal	„ „
Siena	„ „
Yellow Siena	„ „
Rosso di Verona	„ „
Black Verenna	„ „
Vert de Moulin	„ <i>France.</i>
Verde di Pegli.	<i>near Genoa.</i>
Verde di Corsica, - Smaragdite with Albite.	<i>Cors'ca.</i>
Brocatello di Spagna.	<i>Spain.</i>

The following specimens were picked up in the ruins of ancient Rome

Cipollino.	<i>Forum.</i>
Breccia corallina.	<i>Mausoleum of Augustus.</i>
Porta santa bigia.	<i>Hadrian's Villa, near Rome.</i>
Bardiglio bigio.	<i>Temple of Æsculapius.</i>
Rosso antico, moulded and found in	<i>House of 2nd Century.</i>
Pavonazzetto.	<i>Hadrian's Villa.</i>
Africano bigio,	<i>Baths of Caracalla.</i>
Porta santa rossa.	<i>Hadrian's Villa.</i>
Giallo antico.	<i>Columbarium, Vigna Codini.</i>
Porta Santa.	<i>House of 2nd Century.</i>
Rosso di Levanto.	<i>Mausoleum of Augustus.</i>
Palombino. (rare).	<i>Cicero's Villa.</i>

Caleareous, *continued.*Statuary Marble. *Carrara, Italy.*

St. Anne's Marble.

Bardiglio dorato. *Temple of Serapis.*Africano rosso. *Baths of Caracalla.*

Igneous

Granite, red. *Land's End, England,*

„ „ found on Iona, and must have been floated
by Iceberg from Mull, *Scotland.*

„ „ *Baveno, Italy,*

„ „ *Sphinx Temple, Gizeh, Egypt.*

„ „ *Kings' Tombs, near Luxor, Egypt.*

„ gray. *Maloja Pass, Switzerland.*

„ „ *Val Pellice, Italy.*

„ „ showing Feldspar and Mica unevenly distributed.

„ coarse. *Hay Tor, Devonshire.*

„ hornblendic. *Inverlair, Scotland.*

„ siliceous. *Val di Lys, Italy.*

Gneiss, micaceous. „ „

„ *Waldensian Valleys, Italy.*

„ *Stalheim, Norway.*

Mica Schist. *Andorna, Italy.*

„ *Falls of Mona, Inverness, Scotland.*

„ *Val Pellice, Italy.*

„ *Via Mala, Switzerland.*

Igneous, continued.

- Chlorite Schist. *Pieve di Livinallengo, Tyrol.*
- Micaceous Schist. *Elba.*
- Granitiferous Mica Schist. *Hazelden, Perthshire, Scotland.*
- Diabase. *Rossie Hill,* " "
- " porphyritic. *Bargone, Italy.*
- " altered. *Libiola, Italy.*
- Porphyry. *Ormea, Italy.*
- " green antique. three specimens.
- " quartzose. *St. Ulrich, Tyrol.*
- " red. *Italy,*
- " from boulder in *Glen Garr, Scotland.*
- Spherophyric Felsyte, - Globular Porphyry. *Desert near Cairo.*
- Serpentine. *Kildown Quarry, Cornwall.*
- " *Long Alley,* "
- " *Treal Quarry,* "
- " *Poltesco Quarry,* "
- " *Signal Staff Quarry,* "
- " with Bastite. *Rossiglione, Italy.*
- " micaceous schistose. *Syra, Greece.*
- Phthanyte. *Norway.*
- Flint. *Devonshire.*
- " Nodule with cavity. *Italy.*
- Peridotite. (altering produces Magnesite). *Baldissero, Italy.*
- Obsidian, several pieces, one cut for Arrow-head, *Mexico.*
- Andesyte, *near Luxor, Egypt.*
- Epidote. *Monte Viso, Italy.*
- Blue Steatite. *Norway.*
- Hornblende. "
- Columnar Basalt. *Staffa, Scotland.*

Igneous, continued.

Lava with Mica. *Lago di Nemi, near Rome.*

„ with Obsidian. *Vesuvius.*

Talc. *Waldensian Valleys, Italy.*

Pitchstone. *Arran, Scotland.*

Micaceous Quartzite. *Hammerfest, Norway.*

Melaphere - black Porphyry.

Sperone di Tuscolo. *Appian Way, Rome.*

Oak. *Quercus robur*.

„ „ *sessiliflora*.

„ „ *ilex*.

Dutch Oak.

Norwegian Oak.

Riga Oak.

Botany Bay Oak,

Lignum vitæ. *Guaiacum officinale*.

Jamaica *Lignum vitæ*.

Spanish Beech. *Fagus sylvatica*.

Rosewood.

Zebra wood.

Satin wood. *Chloroxylon swistenia*.

Ambyona wood or Kiabooka.

Candle wood. *Erica arborea*.

Locust wood. *Hymenæa courbaril*.

Camwood (or Kingwood). *Baphia nitida*.

Cangica wood.

Sheep bow.

Horse bean. *Caprinus* ?sp,

Ebony. *Diospyros ebenus*.

Poplar. *Populus alba*.

Himalayan Cedar. *Cedrus deodara*.

She Oak. *Casuarina equisetifolia*.

Chestnut, species of, *Castanea vesca*.

Walnut root. *Juglans regia*.

Siberian Stone Pine, bark of, *Pinus pinea*.

Decaying green Oak-wood, impregnated with the spawn
of the fungus *Peziza æruginosa*.

Wood from Livingstone's grave, 1873.

The following were all obtained in Italy.

Horn-beam. *Carpinus betulus*. *Italian name, Carpina.*

Apple. *Pyrus malus*. Pomo.

Ash. *Fraxinus excelsior*. Frassino.

Beech. *Fagus sylvatica*. Faggio.

Chestnut. *Castanea vulgaris*. Castagna.

Elm. *Ulmus campestris*. Olmo.

Acacia. *Acacia arabica*. Acacia.

Larch. *Larix europæa*. Larice.

Oak. *Quercus robur*, Rovere.

Live Oak, *Quercus virens*.

Poplar. *Populus monilifera*. Pioppo.

Walnut. *Juglans regia*. Noce.

Antiquities, Curios, &c.

Necklace from an Egyptian Tomb.

„ of Ants' Eggs. *South Africa.*

„ of Seeds. *South Africa.*

Ornamental Bronze Safety Pin. *Pompeii.*

Ornament used by South Sea Islanders, made of Tortoise-
Shell and Coral Limestone.

Charm given to General Tyrrell by an Indian Snake Charmer
as a remedy against Snake bites. Probably Porcelain Jasper
or baked Clay !

Small Egyptian Idol.

Terra cotta fragment (? a Rattle) from the Pyramid of
Chelulu, Mexico.

Nine Terra cotta Masks from the Pyramids of the Sun and
Moon near Mexico City. (These Pyramids are said to have
existed even before the Aztecs came to Mexico).

Terra cotta decoration from a Buddhist Temple in Burma.

English smoking Pipe found when the Moat of Hampton Court
was re-opened in 1911. Probably 400 years old.

Roman Pearls and Alabaster cut to form the cores of the Pearls.
Arrow-head of the Arizona Indians.

Spear-point from the Algerian Sahara.

Boer Bullet embedded in Calcite.

Ancient Spear-head from the neighbourhood of Naples.

Specimen of Steel one hundredth of a millimetre in thickness.

Fragments of Pottery from the ancient city of Taxila,
N. W. F. P., India.

Silver Græco-Bactrian Coin from „ „

Embossed Copper Vessel and Roman Coins, found at Venti-
miglia, Italy, when the Railway Station was made.

Antiquities, Curios, &c. *continued*

Fossil Ivory, part of Tusk of Mammoth (*Elephas primigenius*)
found in digging the Dry Docks at Leghorn.

Piece of the first successful Atlantic Cable, laid by the
S. S. "Great Eastern", between Valentia, Ireland and
Trinity Bay, Newfoundland.

Portion of first sub-marine Cable between Britain & the U.S.A.
Fragments of China firmly embedded in Ironstone, washed on
shore at Cape of Good Hope from a Ship wrecked more
than 100 years ago.

Piece of Glass rendered iridescent by being long buried.
Found when digging the foundations of the Scotch
Church at Rome.

Three Lachrymatorie of different shapes, from Crete.

Large Lachrymatory, bulb-shaped with long neck, from Crete.

Long, narrow Lachrymatory, from Pompeii.

Roman head carved in Serpentine. Baths of Caracalla, Rome.

Elegant little Jar from Astacus, Greece. 300 B.C.

Three Oil Lamps in Terra cotta, from Astacus. 300 B.C.

Two " from Gnosso, Crete. More than 1000 B.C.

One " from near Naples.

Two " very flat, from Malta.

Rattle of small species of Rattle Snake (*Crotalus miliaris*)
Missouri, U.S. A.

Four Psyche Moths' Cases, from Crocefieschi, Italy.

Large Bulrush, (? *Typhia latifolia*) from New Zealand.

Wasp's Nest, from Ariemore, Scotland.

" " " Binn, Switzerland.

" " " Quinto, Italy.

" " " Crocefieschi, Italy.

Antiquities, Curios, &c. continued

- Moth (*Pavonia major*) and its cocoon. Crocefieschi, Italy.
 Cocoon of Peacock Moth, *Pavonia minor*. Italy.
 Seed case of *Martignia proboscidium*. Africa.
 „ of Cotton Tree (*Eriodendron anfructuosum*) Ceylon.
 „ „ „ *Gossipium barbadense*. ? Egypt.
 Coquilla Nut. (*Attalea funifera*), fruit of a Palm.
 Ivory Nut, *Cœlocuccus vitiensis*. Caroline Islands.
 Wine Palm Nut, *Raphia vinifera*.
 Bean-shaped Nut. *Entada scandens*.
 Common Walnut without division in shell. Italy.
 Capsule and seeds of African Mahogany, *Khaya Senegalensis*.
 Seed of *Zanonia macrocarpa*. Java.
 Leaves of Australian Wattle. *Acaccia melanexylon*.
 Leaf of *Tricomanez reniformis*. Australia.
 Edible Polypi eaten by the natives of the Pacific Islands.
 Vegetable Silk. *Physianthus albens*. Italy.
 Seed cases *Eucalyptus globosus*. Genoa.
 Vegetable Sponge. *Luffa fœtida*.
 Monkey's Comb, Seed case of *Pithecoctenium bucinatorium*.
 Two black and red Seeds, sometimes used as buttons. Ceylon.
 Sections of Silver Tree Fern, *Cyathea dealbata*. N. Z.
 Cocoons of Silkworm, *Bombyx mori*.
 „ „ *Attacus mylitta*. India.
 Three pieces of wood destroyed by 'Ship-borers': *Pholalidae*.
 Two Zulu Speaas and Shield. South Africa.
 Zulu Knobkerry. South Africa.
 Sling of Camel's hair. Eritrea.
 Star Fish, *Asterias rubens*. Mediterranean.
 Whip made of Rhinoceros skin. from Port Sudan.

Antiquities, Curios, &c. *continued*

Chinese walking stick beautifully carved.

Necklace of teeth of the Sperme Whale (Cachalot), *Physeter macrocephalus*, Sydney.

Two finely ornamented Boomerangs. Australia.

Triangle of bell metal and hammer. Burma.

Bamboo Clapper used in Elephant drives. India.

Page

- 2 *Under Sub Class Striges;-*
 Scops giu. Rufous Scops Owl. *Burma.*
 Strix bubo. Eagle Owl. *Liguria, Italy.*
- 3 *Add to Lanius cuba;-*
 Lesser Puff-backed Shrike.
- 6 *Under Herodiones:-*
 Ardea alba. Great White Heron. *Italy.*
 „ purpurea. Purple Heron. *Italy.*
 „ cinerea. Common Heron. *South Africa.*
- 7 *Under Sub Order Limicolæ, -*
 Olicnemus crepitans. Stone Plover. *Bordighera.*
- 11 *Under Accipetres;-*
 Falco cineraceus. Montagu's Harrier. *Bordighera.*
- 21 *Under Sub Order Pandiones:-*
 Sub Class Striges.
 Sceloglaux albo facies. White-faced Owl. *N. Z.*
- 25 *Under Sub Order Gavie:-*
 Stercorarius catarrhæctes. Great Skua. *Scapa Flow.*
 (There are also duplicates, from Lighthouses in the
 North of Scotland, being Eggs of Guillimot, Razor-
 Bill, Puffin, Kittiwake, Herring Gull, Black-backed
 Gull and Hooded Crow. Among the Guillimots'
 Eggs some are of the Common G. , others may be
 of the Black G. the Ringed G. and Brunnich's G.)
- 26 *After Flightless Birds:-*
 Other Eggs.
 Crocodrilus niloticus. Nile Crocodile. *Rhodesia.*
 Testudo tabulata. Brazilian Tortoise. *Brazil.*
 Platydautilus mauritanicus. Gecko. *Bordighera.*

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27 *Under Antilopidae:-*

Bubalis jacksoni. Jackson's Hartebeest. S. Africa.

Neotragus livingstonianus. Livingston's Antelope.

30 *Under Testudinidae, -*

Testudo græca. Greek Tortoise. Shell of, *Italy.*

31 *Under Boidæ, -*

Atractaspis irregularis. Black Mambo. *S. Africa.*

46 *Under Fam. Achetidae, -*

Add to Gryllotalpa - Mole Cricket. *Italy.*

Under Fam. Gryllidae, -

Add Gryllus domesticus. *Italy.*

Under Fam. Phasmatidae, -

Add to Bacillus rossi, -Stick Insect. *Bordighera.*

„ Mantis religiosa, - Praying Mantis. *Bordighera.*

83 *After Turbo eidaeis,, - Turbo marmoratus. India.*97 *After Pholalidae, -*

Class Crustacea. Sub Order Macrura

Eupagurus prideauxi. Harmit Crabs; one with Eggs in Murex brandaris, with the Cloak Anemone growing on the Shell; Also Maia squinado, Thorn-backed Crab. All in glass Jar.

Order Cirripedia. Fam. Lepadidae.

Lepas hillei. Common Barnacle. *Egypt.*

Fam. Balanidae.

Balanus balanoides. Group of Acorn Shells. *U. S. A.*

Class Echinoidea.

Echinus esculentus. Sea Urchin. Spines removed.

Mediterranean.

Page	
98	After <i>Corallia</i> : - Clas; Polypomedusæ. Order Siphonophora. <i>Physalia atlantica</i> . Portuguese Man-of-War. <i>Atlantic</i> . <i>Velella spirans</i> . <i>Mediterranean</i> . Order Octactinia. <i>Pennatula phosphorea</i> . Sea Pen. <i>West of Scotland</i> .
100	<i>Dtv. 1 Sec. 2.</i> Sulphur with Crystals. <i>Girgenti, Sicily</i> .
120	After <i>Iron Garnets</i> ; - Rhombohedral Garnet in Quartzose matrix. <div style="text-align: right;"><i>Pomonte, Elba.</i></div> Octahedral Garnet with laminæ of Mica. ,,
121	After <i>Iron Mica</i> ; - Nacrite, a hydrous Mica, <i>Campo, Elba</i> .
123	After <i>Aquamarine</i> :- Aquamarine with Crystals of Albite. <i>Campo, Elba</i> .
127	<i>Div. 4, Sec. 7, 1st Series</i> : - Anglesite. <i>Iglesias, Sardinia</i> . Crocoite. Chromate of Lead. <i>Dundas, Tasmania</i> .
138	Under <i>Cephalopoda</i> : - Large Ammonite, <i>Monte Lessini, Italian Alps</i> .

Page 4 From "Corvus pica" to "Lanius collurio" already printed on page 3.

3	For Erytharus	read Erythacus.
6	ostragalus	ostralegus.
	phæopus	phœopus.
7	Limacolæ	Limicolæ
12	Plocus	Ploceus.
	erythocephalus	erythrocephalus.
15	Malokoha	Malkoha
22	shœniculus	schœniclus.
31	lucertina	lacertina.
32	spectacled	spotted. (<i>Waldensian</i>).
35	Blethusa	Blethisa.
36	Chlaerius	Chlaenius.
	lineaticollis	lineaticollis.
37	nebululosus	nebulosus.
	puntulatus	punctulatus.
39	Thanatophelus	Thanatophilus.
41	Epurea	Epuræa.
42	Anthous	Athous.
43	Monochamus	Monochammus.
44	Clytra	Clythra.
	Gottingensis	Goettingensis.
	Phyllodicta	Phyllodecta.
	hatensis	halensis.
	Psylloides	Psylliodes.
	caraboidis	caraboides.
45	Curculioniae	Curculionidae.
47	Gompus	Gomphus.
48	SaIandria	Selandria.

Page	48	for	serica	read	sericea.
	55		agalia		aglaia.
	56		tagys		tages.
	57		Privit		Privet.
			procellus		porcellus.
			stellarum		stellatarum.
			Clisocampa		Clisiocampa.
			Orygia		Orgyia.
	58		Orygia		Orgyia.
			canosa		cænosa.
			Deiopia		Deiopeia.
			Episene		Episema.
	59		ochrolenca		ochrolenca.
			obelicea		obelisca.
	60		Monagria		Nonagria.
			festina		festucæ.
	61		luctosa		luctuosa.
	62		Celæne		Celæna.
			aprilana		aprilina.
			Dipterygia		Dypterygia.
			spadacea		spadicea.
	63		fimbria		fimbria.
	64		blenda		blanda,
			decubata		decalbata,
	65		silacata		silaceata.
	66		lateata		lacteata.
			casiata		cæsiata.
			smaragdria		smaragdaria.
			leucophasia		leucophæaria.
			Vespersaria		Vespertaria.
			histarius		hirtarius.

Page 67	for	nanuta	read	nanata.
		dolubraria		dolobraria.
		penuraria		pennaria.
68		vespersaria		vespertaria.
		cythisarius		cytoisarius.
		comprissa		compressa.
		prosimana		prasinana.
69		urticulis		urticalis.
		sericialis		sericialis.
		memoralis		nemoralis,
		farinatis		farinalis.
70		pamonella		pomonella
71		Conchylis		Cochylis.
73-81		Prossobbranchiata		Prosobbranchiata.
73		erinaceus		erinaceus.
75		texticulus		texticula.
		bullosa		bulbosa.
79		Struthiolaris		Struthiolaria,
81		sulcita		sulcata.
80		Rissoa ventricosa.		<i>to be cancelled.</i>
83		Hiantula		Hiatula.
85		memoralis		nemoralis.
87		candalaris		candelaris.
88		allarius		alliarius.
89		pereger		peregra.
96		Cæcilla		Cæcella.
161		Vatentia		Valentia.
162		Speaas		Spiers.