ischiodic foramen oval, of moderate size. Cotyloid cavities placed near the centre of the pelvis; os pubis not continued far downwards, with the extremity inclined upwards and inwards.

Scapulars broad, widest near their extremities, which are pointed.

The skeleton was too much injured to enable me to make out the numbering of the vertebræ with certainty.

REMARKS.—In the anatomy of the soft parts, as far as I could make them out from a much damaged specimen, and in the skeleton, a great preponderance is shown in favour of the genus *Merops* being classed with the Kingfishers, which indeed might be expected from the external structure; and in those points in which it differs it appears to approach the Humming Birds, a group which I think must also be classed among the fissirostral or volitorial division of birds.

The sternum, in having two posterior fissures on each side, agrees with the Kingfishers, but is altogether longer and has a deeper keel in proportion to its length, and the inferior edge of it is more rounded than in that family, in which particulars it appears to approach the Humming Birds.

The coracoids and humerus are proportionally shorter, although of nearly the same form as among the *Alcedinidæ*: these portions of the skeleton are found remarkably short among the Humming Birds.

In the structure of the pelvinal bones, the os furcatum, and ribs, *Merops* agrees precisely with the typical Kingfishers.

LII.—*A Catalogue of Fossil Fish in the Collections of the EARL OF ENNISKILLEN, F.G.S., &c. and SIR PHILIP GREY EGERTON, Bart., F.R.S., &c.**

GENUS and SPECIES.	Formation.	Locality.
<i>Acanthoderma spinosum</i> ...	Black schist.....	Engi.
<i>Acanthopleurus serratus</i> ...	Do.	Ib.
<i>Acanus arcuatus</i>	Do.	Ib.
— <i>oblongus</i>	Do.	Ib.
<i>Acipenser Toliapicus</i>	London clay ...	Sheppy.
<i>Acrodus Anningiæ</i>	Lias	Lyme Regis.
— <i>Braunii</i>	Grés bigarré ...	Deux Ponts.
— <i>Gaillardoti</i>	Muschelkalk ...	Bayreuth.
— <i>gibberulus</i>	Lias	Lyme Regis.
— <i>latus</i>	Do.	Ib.

* This Catalogue has been printed for private distribution by Sir Philip Grey Egerton, to whose kindness we are indebted for permission to insert it.

GENUS and SPECIES.	Formation.	Locality.
<i>Acrodus leiodus</i>	Great Oolite ...	Stonesfield.
— <i>minimus</i>	Muschelkalk ? ...	Axmouth.
— <i>nobilis</i>	Lias	Lyme Regis.
<i>Acrolepis asper</i>	Kupfer-schiefer	Mansfeld.
— <i>Sedgwickii</i>	Mag. Limestone	Ferry Hill.
<i>Ætobates irregularis</i>	London clay ...	Sheppy.
<i>Amblypterus eupterygius</i> ...	Coal formation...	Lebach.
— <i>lateralis</i>	Do.	Ib.
— <i>latus</i>	Do.	Ib.
— <i>macropterus</i>	Do.	Ib.
<i>Amblyurus macrostomus</i> ...	Lias	Street.
<i>Anenchelum dorsale</i>	Black schist.....	Engi.
— <i>Glarisianum</i>	Do.	Ib.
— <i>heteropleurum</i>	Do.	Ib.
— <i>isopleurum</i>	Do.	Ib.
— <i>latum</i>	Do.	Ib.
<i>Aspidorhynchus acutirostris</i>	Oolite	Solenhofen.
— <i>Anglicus</i>	Lias	Whitby.
— <i>Comptoni</i>	Chalk ?.....	Brazil.
— <i>mandibularis</i>	Oolite	Solenhofen.
<i>Asteracanthus ornatissimus</i>	Kimmeridge clay	Shotover.
— <i>semisulcatus</i>	Great Oolite ...	Stonesfield.
<i>Asteroptychius ornatus</i>	Carb. Limestone	Armagh.
<i>Atherina macrocephala</i>	Eocene.....	Monte Bolca.
<i>Aulolepis typus</i>	Chalk	Kent.
<i>Belonostomus acutus</i>	Lias	Whitby.
— <i>leptosteus</i>	Great Oolite ...	Stonesfield.
— <i>Münsteri</i>	Oolite	Solenhofen.
— <i>tenellus</i>	Lias	Lyme.
<i>Beryx microcephalus</i>	Chalk	Kent.
— <i>ornatus</i>	Do.	Ib.
— <i>radians</i>	Do.	Ib.
<i>Blochius longirostris</i>	Eocene.....	Monte Bolca.
<i>Carangopsis dorsalis</i>	Do.	Ib.
— <i>latior</i>	Do.	Ib.
<i>Carcharias grosseserratus</i> ...	Tertiary beds ...	Maryland.
— <i>macrodon</i>	Do.	Ib.
— <i>megalodon</i>	Do.	Malta.
— <i>megalotis</i>	Do.	Maryland.
— <i>minor</i>	Do.	Ib.
— <i>polygyrus</i>	Do.	Ib.
— <i>productus</i>	Do.	Malta.
— <i>subserratus</i>	London clay.....	Sheppy.

GENUS and SPECIES.	Formation.	Locality.
<i>Caturus furcatus</i>	Oolite	Eichstadt.
— <i>macrodon</i>	Do.	Solenhofen.
— <i>macrurus</i>	Do.	Ib.
— <i>maximus</i>	Do.	Ib.
— <i>microchirus</i>	Do.	Ib.
— <i>pachyurus</i>	Do.	Ib.
— <i>pleiodus</i>	Great oolite	Stonesfield.
<i>Ceratodus altus</i>	Muschelkalk? ...	Aust.
— <i>gibbus</i>	Do.	Ib.
— <i>planus</i>	Do.	Ib.
<i>Cheiracanthus microlepidotus</i>	Old Red	Lethen.
— <i>minor</i>	Do.	Stromness.
<i>Cheirolepis Cummingiæ</i> ...	Do.	Lethen.
— <i>Traillii</i>	Do.	Stromness.
<i>Chimæra Agassizii</i>	Green sand	Maidstone.
— <i>brevirostris</i>	Galt	Folkstone.
— <i>Colei</i>	Great Oolite ...	Stonesfield.
— <i>Egertoni</i>	Kimmeridge clay	Shotover.
— <i>Mantellii</i>	Chalk	Sussex.
— <i>neglecta</i>	Great Oolite ...	Stonesfield.
— <i>Owenii</i>	Do.	Ib.
— <i>Townshendii</i>	Purbeck stone ...	Garsington.
<i>Chomatodus cinctus</i>	Carb. Limestone	Bristol.
— <i>linearis</i>	Do.	Ib.
— <i>truncatus</i>	Do.	Armagh.
<i>Chondrosteus acipenserides</i>	Lias	Lyme.
<i>Cladocyclus Gardneri</i>	Chalk?	Brazil.
— <i>Lewesiensis</i>	Do.	Kent.
<i>Cladodus mirabilis</i>	Carb. Limestone	Bristol.
— <i>striatus</i>	Do.	Armagh.
<i>Clupea Beurardi</i>	Tertiary beds ...	Lebanon.
— <i>brevis</i>	Black schist.....	Engi.
— <i>catopogoptera</i>	Eocene.....	Monte Bolca.
— <i>megaptera</i>	Black schist.....	Engi.
— <i>minuta</i>	Eocene.....	Monte Bolca.
— <i>Scheuchzeri</i>	Black schist.....	Engi.
— <i>tenuissima</i>	Pleistocene	Sicily.
<i>Cobitis cephalotes</i>	Tertiary beds ...	œningen.
<i>Coccosteus latus</i>	Old Red	Stromness.
— <i>oblongus</i>	Do.	Lethen.
<i>Cochliodus acutus</i>	Carb. Limestone	Armagh.
— <i>contortus</i>	Do.	Bristol.
— <i>magnus</i>	Do.	Armagh.
— <i>oblongus</i>	Do.	Ib.
— <i>striatus</i>	Do.	Ib.
<i>Cœlacanthus gracilis</i>	—	—

GENUS and SPECIES.	Formation.	Locality.
<i>Cœlacanthus granulatus</i> ...	Mag. Limestone	Ferry Hill.
— <i>lepturus</i>	Coal shale	Leeds.
<i>Cœlopoma Colei</i>	London clay ...	Sheppy.
— <i>læve</i>	Do.	Ib.
<i>Conodus ferox</i>	Lias	Lyme.
<i>Cottus brevis</i>	Tertiary beds ...	Eningen.
<i>Ctenacanthus brevis</i>	Carb. Limestone	Bristol.
— <i>heterogyrus</i>	Do.	Armagh.
— <i>major</i>	Do.	Bristol.
— <i>tenuistriatus</i>	Do.	Ib.
<i>Ctenolepis cyclus</i>	Great Oolite ...	Stonesfield.
<i>Ctenoptychius apicalis</i>	Coal shale	Stafford.
— <i>dentatus</i>	Carb. Limestone	Armagh.
— <i>marginalis</i>	Do.	Ib.
— <i>pectinatus</i>	Coal shale	N. Wales.
— <i>radicans</i>	Carb. Limestone	Armagh.
— <i>sagittatus</i>	Do.	Ib.
— <i>serratus</i>	Do.	Ib.
<i>Cybiium-macropomum</i>	London clay ...	Sheppy.
<i>Cyclurus minor</i>	Tertiary beds ...	Eningen.
<i>Dapedius arenatus</i>	Lias	Lyme.
— <i>Colei</i>	Do.	Ib.
— <i>granulatus</i>	Do.	Ib.
— <i>micans</i>	Do.	Whitby.
— <i>orbis</i>	Do.	Barrow.
— <i>politus</i> ...	Do.	Lyme.
— <i>punctatus</i>	Do.	Ib.
<i>Dentex breviceps</i>	Eocene.....	Monte Bolca.
<i>Dercetis elongatus</i>	Chalk	Kent.
<i>Diodon erinaceus</i>	Eocene.....	Monte Bolca.
— <i>Scillæ</i>	Tertiary beds ...	Malta.
<i>Diplacanthus crassispinus</i> .	Old Red	Stromness.
— <i>longispinus</i>	Do.	Lethen.
— <i>striatulus</i>	Do.	Ib.
<i>Diplodus gibbosus</i>	Coal shale	Staffordshire.
<i>Diplopterus borealis</i>	Old Red	Stromness.
— <i>carbonarius</i>	Coal shale	Leeds.
— <i>macrocephalus</i>	Old Red	Lethen.
<i>Dipterus macrolepidotus</i> ...	Do.	Caithness.
<i>Ductor leptosomus</i>	Eocene.....	Monte Bolca.
<i>Enchodus halocyon</i>	Chalk	Kent.

GENUS and SPECIES.	Formation.	Locality.
<i>Ehippus longipennis</i>	Eocene.....	Monte Bolca.
<i>Esox lepidotus</i>	Tertiary beds ...	Eningen.
<i>Eugnathus chirotes</i>	Lias	Lyme.
— <i>fasciculatus</i>	Do.	Whitby.
— <i>microlepidotus</i>	Oolite	Solenhofen.
— <i>minor</i>	Lias	Lyme.
— <i>ornatus</i>	Do.	Ib.
— <i>orthostomus</i>	Do.	Ib.
— <i>polyodon</i>	Do.	Ib.
— <i>scabriusculus</i>	Do.	Ib.
— <i>speciosus</i>	Do.	Ib.
— <i>tenuidens</i>	Do.	Street.
<i>Eurynotus crenatus</i>	Coal formation .	Burdie House.
<i>Fistularia Koenigii</i>	Black schist.....	Engi.
— <i>tenuirostris</i>	Eocene.....	Monte Bolca.
<i>Galeus aduncus</i>	Molasse	Soleure.
— <i>appendiculatus</i>	Plänerkalk	Stickla.
— <i>falcatus</i>	Chalk	Kent.
— <i>pristodontus</i>	Do.	Maestricht.
— <i>semiserratus</i>	—	—
— <i>serratus</i>	Molasse	Soleure.
<i>Gasteronemus rhombeus</i> ...	Eocene.....	Monte Bolca.
<i>Glyptocephalus radiatus</i> ...	London clay ...	Sheppy.
<i>Glyptolepis leptopterus</i> ...	Old Red	Lethen.
<i>Gobio analis</i>	Tertiary beds ...	Eningen.
<i>Goniognathus coryphænoïdes</i>	London clay ...	Sheppy.
— <i>maxillaris</i>	Do.	Ib.
<i>Gyracanthus formosus</i>	Coal shale	N. Wales.
— <i>tuberculatus</i>	Do.	N. Shields.
<i>Gyrodus angustus</i>	Chalk	Maidstone.
— <i>lævior</i>	London clay ...	Sheppy.
— <i>trigonus</i>	Great Oolite ...	Stonesfield.
— <i>n. s.</i>	Do.	Ib.
<i>Gyrolepis Albertii</i>	Muschelkalk ? ...	Axmouth.
— <i>Rankini</i>	Coal shale	Leeds.
— <i>tenuistriatus</i>	Muschelkalk ? ...	Axmouth.
<i>Gyrosteus mirabilis</i>	Lias	Whitby.
<i>Helodus didymus</i>	Carb. Limestone	Armagh.
— <i>lævissimus</i>	Do.	Bristol.
— <i>mammillaris</i>	Do.	Armagh.
— <i>planus</i>	Do.	Ib.
— <i>simplex</i>	Coal shale	Staffordshire.
— <i>turgidus</i>	Carb. Limestone	Armagh.

GENUS and SPECIES.	Formation.	Locality.
<i>Hemipristis serra</i>	Molasse	Soleure.
<i>Holocentrum pygæum</i>	Eocene.....	Monte Bolca.
<i>Holoptychius granulatus</i> ...	Coal shale	Rhuabon.
— <i>Hibberti</i>	Coal formation .	Burdie House.
— <i>minor</i>	Coal shale	Leeds.
— <i>sauroides</i>	Do.	Ib.
<i>Hybodus acutus</i>	Kimmeridge clay	Shotover.
— <i>carinatus</i>	Lias	Lyme.
— <i>dorsalis</i>	Great Oolite ...	Stonesfield.
— <i>ensatus</i>	Lias	Lyme.
— <i>formosus</i> }	Do.	Ib.
— <i>grossispinus</i> }	Great oolite	Stonesfield.
— <i>grossiconus</i>	Lias	Lyme.
— <i>homoprion</i> }	Muschelkalk ...	Bayreuth.
— <i>medius</i> }	Great Oolite ...	Stonesfield.
— <i>longiconus</i>	Muschelkalk ? ...	Axmouth.
— <i>marginalis</i>	Do.	Ib.
— <i>minor</i>	Great Oolite ...	Stonesfield.
— <i>plicatilis</i>		
— <i>polyprion</i>		
<i>Hybodus reticulatus</i> }		
— <i>curtus</i> }	Lias	Lyme.
— <i>incurvus</i> }		
— <i>strictus</i>	Purbeck stone ...	Purbeck.
<i>Hypsodon Lewesiensis</i>	Chalk	Kent.
— <i>oblongus</i>	London clay.....	Sheppy.
— <i>Toliapicus</i>	Do.	Ib.
<i>Isurus macrurus</i>	Black schist.....	Engi.
<i>Labrax schizurus</i>	Eocene.....	Monte Bolca.
<i>Lamna acuminata</i>	Chalk	Sussex.
— <i>contortidens</i>	Molasse	Soleure.
— <i>cuspidata</i> }	Do.	Ib.
— <i>denticulata</i> }	London clay.....	Sheppy.
— <i>elegans</i>		
<i>Lates gracilis</i>	Eocene.....	Monte Bolca.
<i>Lebias cephalotes</i>	Tertiary beds ...	Sinigaglia.
— <i>crassicaudus</i>	Do.	Aix.
<i>Lepidotus fimbriatus</i>	Lias	Lyme.
— <i>Fittoni</i>	Wealden	Tilgate.
— <i>Mantellii</i>	Do.	Ib.
— <i>minor</i>	Purbeck stone...	Purbeck.
— <i>notopterus</i>	Oolite	Solenhofen.
— <i>palliatu</i> s	Kimmeridge clay	Boulogne.
— <i>punctulatus</i>	Chalk	Kent.
— <i>semiserratus</i>	Lias	Whitby.
— <i>serratus</i>	Do.	Barrow.
— <i>unguiculatus</i>	Great Oolite ...	Stonesfield.

GENUS and SPECIES.	Formation.	Locality.
<i>Lepracanthus Colei</i>	Coal shale	N. Wales.
<i>Leptacanthus semistriatus</i>	Great Oolite ...	Stonesfield.
— <i>serratus</i>	Do.	Ib.
— <i>tenuispinus</i>	Lias	Lyme.
<i>Leptolepis Bronnii</i>	Lias	Lyme.
— <i>caudalis</i>	Do.	Ib.
— <i>contractus</i>	Oolite	Solenhofen.
— <i>dubius</i>	Do.	Ib.
— <i>filipennis</i>	Lias	Street.
— <i>Knorrii</i>	Oolite	Solenhofen.
— <i>latus</i>	Do.	Eichstadt.
— <i>paucispondylus</i>	Green sand	Kelheim.
— <i>polyspondylus</i>	Oolite	Solenhofen.
— <i>pusillus</i>	Green sand	Kelheim.
— <i>sprattiformis</i>	Oolite	Solenhofen.
— <i>Voithii</i>	Green sand	Kelheim.
<i>Leuciscus gracilis</i>	Tertiary beds ...	Wurtemberg.
— <i>latiusculus</i>	Do.	Öeningen.
— <i>macrurus</i>	Papier-kohl	Rhine.
— <i>Öeningensis</i>	Tertiary beds ...	Öeningen.
— <i>papyraceus</i>	Papier-kohl	Rhine.
<i>Lichia prisca</i>	Eocene.....	Monte Bolca.
<i>Macropoma Egertoni</i>	Galt	Speeton.
— <i>Mantellii</i>	Chalk	Sussex.
<i>Macrosemius brevisrostris</i> ...	Great Oolite ...	Stonesfield.
<i>Mallotus villosus</i>	Recent beds	Greenland.
<i>Megalichthys Hibberti</i>	Coal shale	Burdie House.
<i>Megalops priscus</i>	London clay.....	Sheppy.
<i>Microdon hexagonus</i>	Oolite	Solenhofen.
— <i>radiatus</i>	Purbeck stone ...	Purbeck.
<i>Mugil princeps</i>	Tertiary beds ...	Aix.
<i>Myliobates angustus</i>	London clay.....	Sheppy.
— <i>gyratus</i>	Do.	Ib.
— <i>marginalis</i>	Do.	Ib.
— <i>nitidus</i>	Do.	Ib.
<i>Myliobates Stokesii</i>	—	—
— <i>Studerii</i>	Molasse	Soleure.
— <i>subarcuatus</i>	London clay.....	Sheppy.
— <i>Toliapicus</i>	Do.	Ib.
— —	Crag.....	Norfolk.
<i>Myriacanthus paradoxus</i> ...	Lias	Lyme.
— <i>retrorsus</i>	Do.	Ib.
<i>Myripristis homopterygius</i>	Eocene.....	Monte Bolca.
— <i>leptacanthus</i>	Do.	Ib.

GENUS and SPECIES.	Formation.	Locality.
<i>Nemacanthus brevispinus</i> ...	Great Oolite ...	Stonesfield.
— <i>filifer</i>	Muschelkalk ? ...	Aust.
<i>Nemopteryx crassus</i>	Black schist.....	Engi.
— <i>elongatus</i>	Do.	Ib.
<i>Notagodus Pentlandi</i>	Jura Limestone	[do. Torre d'Orlan-
<i>Nothosomus octostychius</i> ...	Lias	Lyme.
<i>Notidanus microdon</i>	Chalk	Kent.
— <i>primigenius</i>	Molasse	Soleure.
<i>Odontaspis raphiodon</i>	Chalk	Maestricht.
<i>Onchus plicatus</i>	Carb. Limestone	Armagh.
— <i>rectus</i>	Do.	Ib.
— <i>subulatus</i>	Coal shale	Rhuabon.
<i>Ophiopsis dorsalis</i>	Purbeck stone ...	Purbeck.
<i>Oracanthus Milleri</i>	Carb. Limestone	Bristol.
— <i>minor</i>	Do.	Armagh.
— <i>pustulosus</i>	Do.	Bristol.
<i>Orodus ramosus</i>	Do.	Ib.
<i>Osmeroides Glarisiensis</i> ...	Black schist.....	Engi.
— <i>Lewesiensis</i>	Chalk	Sussex.
<i>Osteolepis arenatus</i>	Old Red	Gamrie.
— <i>macrolepidotus</i>	Do.	Orkney.
— <i>major</i>	Do.	Lethen.
— <i>microlepidotus</i>	Do.	Orkney.
<i>Otodus appendiculatus</i> ...	Chalk	Sussex.
— <i>crassus</i>	—	—
— <i>latus</i>	Chalk	Maestricht.
— <i>macrotus</i>	London clay.....	Sheppy.
— <i>obliquus</i>	Do.	Ib.
— ———	Crag.....	Norfolk.
<i>Oxyrhina hastalis</i>	Molasse	Soleure.
— <i>Mantellii</i>	Chalk	Sussex.
— <i>quadrans</i>	Molasse	Soleure.
— <i>xiphodon</i>	Tertiary beds ...	Malta.
<i>Pachycormus acutirostris</i> ...	Lias	Whitby.
— <i>gracilis</i>	Do.	Ib.
— <i>latipennis</i>	Do.	Lyme.
— <i>latirostris</i>	Do.	Whitby.
— <i>latus</i>	Do.	Ib.
— <i>leptosteus</i>	Do.	Lyme.
— <i>macrurus</i>	Do.	Ib.
— <i>n. s.</i>	Do.	Whitby.
<i>Palæoniscus Blainvillei</i> ...	Coal formation .	Muse.
— <i>catopterus</i>	New Red	Roan Hill.
— <i>comtus</i>	Mag. Limestone	Ferry Hill.

GENUS and SPECIES.	Formation.	Locality.
<i>Palæoniscus Duvernoy</i>	Coal formation .	Zweibrücken.
— <i>Egertoni</i>	Coal shale	Staffordshire.
— <i>elegans</i>	Mag. Limestone	Ferry Hill.
— <i>Freieslebeni</i>	Kupfer-schiefer .	Mansfeld.
— <i>glaphyrus</i>	Mag. Limestone	Ferry Hill.
— <i>longissimus</i>	Do.	Ib.
— <i>macropomus</i>	Zechstein	Ilmenau. [way.
— <i>macrophthalmus</i>	Mag. Limestone	Clarence Rail-
— <i>magnus</i>	Kupfer-schiefer .	Mansfeld.
— <i>Monensis</i>	Coal shale	Anglesea.
— <i>Robisoni</i>	Coal formation .	Burdie House.
— <i>Vratislaviensis</i>	New Red	Ruppersdorf.
<i>Palæorhynchum Colei</i>	Black schist.....	Engi.
— <i>Egertoni</i>	Do.	Ib.
— <i>Glarisianum</i>	Do.	Ib.
— <i>latum</i>	Do.	Ib.
— <i>longirostre</i>	Do.	Ib.
— <i>medium</i>	Do.	Ib.
— <i>microspondylum</i>	Do.	Ib.
<i>Palimphytes brevis</i>	Do.	Ib.
— <i>longus</i>	Do.	Ib.
<i>Perca Beaumontii</i>	Tertiary beds ...	Aix.
<i>Petalodus Hastingsiæ</i>	Carb. Limestone	Ticknall.
— <i>psittacinus</i>	Do.	Armagh.
— <i>lævissimus</i>	Do.	Ib.
— <i>rectus</i>	Do.	Ib.
<i>Pholidophorus Bechei</i>	Lias	Lyme.
— <i>fusiformis</i>	—	Castellamare.
— <i>Hastingsiæ</i>	Lias	Barrow.
— <i>latimanus</i>	Oolite	Solenhofen.
— <i>latiusculus</i>	Lias	Lyme.
— <i>latus</i>	Oolite	Solenhofen.
— <i>leptocephalus</i>	Lias	Street.
— <i>limbatus</i>	Do.	Lyme.
— <i>macrocephalus</i>	Oolite	Eichstadt.
— <i>minor</i>	Great Oolite ...	Stonesfield.
— <i>onychius</i>	Lias	Lyme.
— <i>radians</i>	Oolite	Eichstadt.
— <i>radiatopunctatus</i>	Do.	Solenhofen.
— <i>Stricklandi</i>	Lias	Barrow.
— <i>Taxis</i>	Oolite	Solenhofen.
— <i>tenuiserratus</i>	Green sand	Kelheim.
— <i>uræoides</i>	Oolite	Solenhofen.
<i>Phyllodus irregularis</i>	London clay.....	Sheppy.
— <i>medius</i>	Do.	Ib.
— <i>Toliapicus</i>	Do.	Ib.
<i>Physonemus subteres</i>	Carb. Limestone	Armagh.
<i>Pisodus</i> —	London clay.....	Hampshire.
<i>Placodus gigas</i>	Muschelkalk ...	Bayreuth.
— <i>Münsteri</i>	Do.	Ib.

GENUS and SPECIES.	Formation.	Locality.
<i>Platax Woodwardii</i>	Crag	Norfolk.
<i>Platygnaethus paucidens</i> ...	Old Red	Orkney.
<i>Platysomus gibbosus</i>	Kupfer-schiefer .	Eisleben.
— <i>parvulus</i>	Coal shale	Leeds.
— <i>striatus</i>	Mag. Limestone	Ferry Hill.
<i>Pleionemus macrospondylus</i>	Black schist ...	Engi.
<i>Pleuracanthus planus</i>	Coal shale	Leeds.
<i>Pleurodus affinis</i>	Do.	Rhuabon.
<i>Pœcilodus Jonesii</i>	Carb. Limestone	Armagh.
— <i>obliquus</i>	Do.	Ib.
— <i>parallelus</i>	Do.	Ib.
— <i>sublævis</i>	Do.	Ib.
— <i>transversus</i>	Do.	Ib.
<i>Pristis Hastingsiæ</i>	London clay.....	Hampshire.
<i>Psammodus cornutus</i>	Carb. Limestone	Armagh.
— <i>porosus</i>	Do.	Ib.
— <i>rugosus</i>	Do.	Ib.
<i>Pterichthys cornutus</i>	Old Red	Lethen.
— <i>latus</i>	Do.	Ib.
— <i>Milleri</i>	Do.	Gamrie.
— <i>productus</i>	Do.	Lethen.
<i>Pterygocephalus paradoxus</i>	Eocene.....	Monte Bolca.
<i>Ptychodus acutus</i>	Galt	Folkstone.
— <i>altior</i>	Chalk	Sussex.
— <i>decurrens</i>	Do.	Ib.
— <i>gibberulus</i>	Do.	Ib.
— <i>latissimus</i>	Do.	Ib.
— <i>mammillaris</i>	Do.	Ib.
— <i>polygyrus</i>	Do.	Ib.
— <i>spectabilis</i>	Do.	Ib.
<i>Ptycholepis Bollensis</i>	Lias	Whitby.
<i>Pycnodus biserialis</i>	Great Oolite ...	Little Gibraltar.
— <i>Bucklandi</i>	Do.	Stonesfield.
— <i>didymus</i>	Do.	Ib.
— <i>discoides</i>	Do.	Little Gibraltar.
— <i>gigas</i>	Jura Limestone	Jura.
— <i>Hüggii</i>	Great Oolite ...	Stonesfield.
— <i>latirostris</i>	Do.	Ib.
— <i>Mantellii</i>	Do.	Tilgate.
— <i>obtusius</i>	Great Oolite ...	Stonesfield.
— <i>ovalis</i>	Do.	Ib.
— <i>parvus</i>	Do.	Ib. [do.
— <i>rhombus</i>	Jura Limestone	Torre d'Orlan-
— <i>rugulosus</i>	Great Oolite ...	Stonesfield.
<i>Pygæus Coleanus</i>	Eocene	Monte Bolca.

GENUS and SPECIES.	Formation.	Locality.
<i>Pygopterus Humboldtii</i> ...	Kupfer-schiefer .	Mansfeld.
— <i>mandibularis</i>	Mag. Limestone	Ferry Hill.
<i>Raia antiqua</i>	Crag.....	Norfolk.
<i>Rhacolepis brama</i>	Chalk ?.....	Brazil.
— <i>buccalis</i>	Do.	Ib.
— <i>latus</i>	Do.	Ib.
<i>Rhodeus elongatus</i>	Tertiary beds ...	Eningen.
<i>Saurichthys apicalis</i>	Muschelkalk ? ...	Axmouth.
<i>Saurocephalus lanciformis</i> .	Chalk	Sussex.
<i>Sauropsis mordax</i>	Great Oolite ...	Stonesfield.
<i>Sciænurus Bowerbankii</i> ...	London clay.....	Sheppy.
— <i>crassior</i>	Do.	Ib.
<i>Scilliodus antiquus</i>	Chalk	Kent.
<i>Semionotus rhombifer</i>	Lias	Lyme.
— <i>striatus</i>	Do.	Seefeld.
<i>Semiophorus velicans</i>	Eocene.....	Monte Bolca.
<i>Serranus microstomus</i>	Do.	Ib.
— <i>occipitalis</i>	Eocene	Ib.
<i>Smerdis micracanthus</i>	Eocene	Ib.
— <i>minutus</i>	Tertiary beds ...	Aix.
— <i>pygmæus</i>	Eocene.....	Monte Bolca.
<i>Sparnodus altivelis</i>	Do.	Ib.
— <i>macrophthalmus</i>	Do.	Ib.
— <i>micracanthus</i>	Do.	Ib.
— <i>ovalis</i>	Do.	Ib.
<i>Sphærodus gigas</i>	Kimmeridge clay	Shotover.
— <i>n. s.</i>	Jura Limestone	Jura.
<i>Sphenolepis squamosseus</i> ...	Tertiary beds ...	Aix.
<i>Sphenonchus hamatus</i>	Lias	Lyme.
<i>Sphyræna gracilis</i>	Eocene.....	Monte Bolca.
<i>Sphyrænodus crassidens</i> ...	London clay.....	Sheppy.
— <i>priscus</i>	Do.	Ib.
<i>Spinacorhinus polyspondylus</i>	Lias	Lyme.
<i>Strophodus favosus</i>	Great Oolite ...	Stonesfield.
— <i>magnus</i>	Do.	Ib.
— <i>reticulatus</i>	Kimmeridge clay	Shotover.
— <i>subreticulatus</i>	Inferior Oolite...	Dundry.
— <i>sulcatus</i>	Green sand	Maidstone.
— <i>tenuis</i>	Great Oolite ...	Stonesfield.

GENUS and SPECIES.	Formation.	Locality.
<i>Tetragonolepis confluens</i> ...	Lias	Lyme.
— <i>dorsalis</i>	Do.	Gloucestersh.
— <i>heteroderma</i>	Do.	Lyme.
— <i>Leachii</i>	Do.	Ib.
— <i>leiosomus</i>	Do.	Ib.
— <i>monilifer</i>	Do.	Barrow.
— <i>ovalis</i>	Do.	Whitby.
— <i>pholidotus</i>	Do.	Lyme.
— <i>pustulatus</i>	Do.	Ib.
— <i>radiatus</i>	Do.	Ib.
— <i>speciosus</i>	Do.	Ib.
— <i>striolatus</i>	Do.	Barrow.
<i>Tetrapterus prisceus</i>	London clay.....	Sheppy.
<i>Thrissops formosus</i>	Green sand	Kelheim.
— <i>salmoneus</i>	Oolite	Solenhofen.
<i>Thyellina prisca</i>	Lias	Lyme.
<i>Tinca furcata</i>	Tertiary beds ...	Eningen.
<i>Vomer longispinus</i>	Eocene.....	Monte Bolca.
<i>Zygæna dubia</i>	Molasse	Soleure.
New genus	Eocene.....	Monte Bolca.
N. S.	Chalk	Kent.
N. S.	Tertiary beds ...	Aix.
N. S.	Black schist ...	Greenland.
N. S.	Eocene.....	Monte Bolca.

BIBLIOGRAPHICAL NOTICES.

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THERE are perhaps very few persons who are not sensibly alive to the objects of study which Natural History presents, and yet the proportion of those who pursue any department of it as a science is but small. We may probably find an explanation of this circumstance in the operation of two causes. In the first place, the scientific pursuit of zoology or botany cannot be so profitably applied to the arts by which wealth is accumulated as many other departments of science, amongst which we may mention chemistry and the various branches of natural philosophy. Men of science must live as well as other people; and it is the lot of a few only to be able to pursue science independently of their means of subsistence.

In the second place, Natural History has never occupied a pro-

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