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OBITUARY.

DR. R. BOWDLER SHARPE.

regret to announce that Dr. Richard Bowdler, the well-known ornithologist, and an Assistant in the Department of Zoology at the Natural History Museum, died on Christmas Day at his house, Rowgate-road, Chiswick.

Richard Bowdler Sharpe was born in London on November 22, 1847, and was the eldest son of Thomas Bowdler Sharpe, publisher, of Cookham, Wiltshire. He was educated at Brighton, Peterborough and Loughborough Grammar Schools. In 1863 he entered the service of Messrs. Smith and Sons, and after a year with Mr. Quaritch he became in 1867 the first librarian of the Zoological Society of London, a post which he held until 1872, when he joined the British Museum as Assistant in the Department of Zoology, becoming an Assistant Keeper in 1895.

Bowdler Sharpe's principal work lay in ornithology, in which subject he worked more as an author and classifier than as a field observer. Of his monumental catalogue of birds in the British Museum in 27 volumes, he was responsible for the greater part; the first four volumes of the "Hand List of Birds" were also his work; while with Dresser in 1871 he began the publication of the "Birds of Europe," one of the completest of its kind, which was finished by his collaboration with eight volumes in 1879. Among other works on ornithology are his monographs on kingfishers, terns, and birds of Paradise. The first of these, on the family of kingfishers, published 40 years ago, has brought a reputation to its youthful author, and described 125 species of the *Alcedinidae*, grouped into 9 genera and divided into two sub-families, *Alcedininae* and *Dacelominae*. Among other works he has edited Allen's "Natural History of Birds," White's "Natural History of Selborne," to which he was enabled to add, as he explained in the preface, a good deal of matter of interest to ornithologists of Gilbert White, having spent some weeks in the field for the purpose.

At the International Ornithological Congress held in London in 1905 Dr. Bowdler Sharpe presided over the proceedings with a presidential address in which he gave an account of the great bird collection under his care in the museum. In the course of his address he announced the discovery of a fairly convincing proof that the precious picture of the bird in the museum, once the property of Sir Hans Egede, was actually taken from a living specimen of the bird brought into Holland after the discovery of the passage to India round the Cape.

Bowdler Sharpe received the degree of LL.D. from Aberdeen University; and he was the recipient of the grand medal for science from the Emperor of Austria in 1891, and Officier de l'Instruction Publique, 1901. He married, in 1867, Emily, daughter of the late Mr. James Walter Burrows, of Chiswick.

110, Cannon Street,
London, 17, June, 1909
E.C.

Mr. H. Stouham

I am sorry to say that I never got the nestling in question which you mentioned in your note of the 9th of April 1911. I don't know who has it unless it be A. H. Pearson. The nestling of the Sanderling is in your way in the Edinburgh Museum and also in the Copenhagen Museum where there is a case of which I send photo herewith. I have also a photo of the nest of the Sanderling for my egg book. I don't know anyone who has the nestling of the Brewer's Sanderling in this country, but it is I believe in the Imp. Museum at St. Petersburg.

Remain
Yours truly
J. E. Dresser

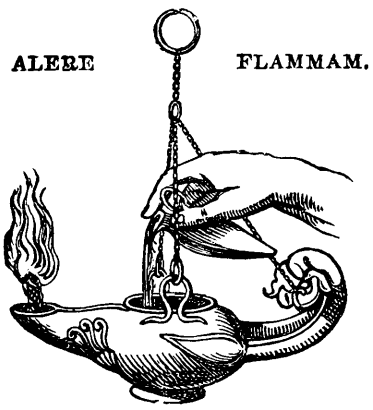
April 1911
Stouham
to your note
I wish in
the 9th of
regards
Yours truly
J. E. Dresser

A HISTORY
OF
THE BIRDS OF EUROPE,
INCLUDING ALL THE SPECIES INHABITING THE
WESTERN PALÆARCTIC REGION.

BY
H. E. DRESSER, F.L.S., F.Z.S., ETC.

VOLUME I.

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VOLUME I.

CONTAINING:—

TITLEPAGE. DEDICATION. LIST OF SUBSCRIBERS.
PREFACE. INTRODUCTION. LITERATURE.
ADDENDA ET ERRATA. INDEX.

TO THE RIGHT HONOURABLE

Thomas Lyttleton, Lord Lilford, F.R.S., F.Z.S., &c.,

PRESIDENT OF THE BRITISH ORNITHOLOGISTS' UNION,

IN

RECOGNITION OF THE ASSISTANCE HE HAS INVARIABLY AFFORDED

TO ME

DURING THE PUBLICATION OF THIS WORK,

AND AS A

TOKEN OF MY APPRECIATION OF HIS MANY ACTS OF SINCERE FRIENDSHIP,

THESE VOLUMES ARE DEDICATED

BY

H. E. DRESSER.

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PREFACE.

EARLY in 1870 the idea of writing a work on European Ornithology was first projected by Mr. R. B. Sharpe and myself; and before the close of that year we had arranged to undertake the present work in copartnership; but the first Part was not issued before March 1871. Twelve Parts were published with tolerable regularity, when Mr. Sharpe, who had given up his post as Librarian to the Zoological Society, and had obtained an appointment at the British Museum, found that his new duties would not allow him to continue his share of the work. He was therefore compelled to ask me to release him; and the partnership was consequently dissolved, I undertaking to continue the publication alone. His name, however, was retained on the titlepages of the parts up to Part XVII., although the articles in these Parts were written by myself, except the synonymy for Part XIII., which Mr. Sharpe had prepared before we dissolved partnership. The articles in small type on the Sparrow-Hawks, *Emberiza cia* and its allies, and on the Blue Rock-Thrushes were written entirely by Mr. Sharpe; and I am glad to be able to give the sole credit of the same to him. A portion of the synonymy was elaborated by the late Marquis of Tweeddale (then Lord Walden), such portion bearing his signature, with the exception of the synonymy of the species contained in Part XIV., which he most kindly undertook to do, as I was then rather overworked; besides, from time to time, as the work progressed, I received the greatest assistance from him in hunting up obscure references; he likewise always allowed me the use of his specimens and books whenever I required them.

The earlier Parts were published at the Office of the Zoological Society, 11 Hanover Square; and I take this opportunity of expressing my deep gratitude

to the President and Council of the Zoological Society, who most generously permitted the work to be published there, and who gave me every assistance in their power during the earlier years when I was struggling under not a few difficulties.

The latter Parts were issued from 6 Tenterden Street, where for upwards of seven years I have kept my collections and library, and where, owing to the close proximity of the rich library of the Zoological Society, I have had every opportunity of referring to the many rare ornithological works which it contains.

To the various noblemen and gentlemen who during the progress of the work assisted me with notes and the loan of specimens (whose names are mentioned so frequently in the following pages that I need not recapitulate them here) I return my heartfelt thanks. Many of these kind friends, some of whom have been my most zealous supporters, have not lived to see the work finished, amongst whom I may name T. C. Jerdon, E. Blyth, Jules Verreaux, G. R. Gray, R. Swinhoe, Andrew Anderson, Lord Tweeddale; and since I have commenced writing the present introduction, zoologists have to mourn the loss of John Gould and Edward R. Alston, one of our oldest and one of our youngest zoologists, the latter of whom will be long remembered as a most painstaking and accurate worker as well as a true friend and genial companion.

The illustrations have been executed chiefly by Mr. J. C. Keulemans, whose facile pencil has embellished so many works on ornithology. Not a few of the Raptores as well as one or two other birds have been drawn by Mr. Joseph Wolf, well known as the best of living delineators of animal life; and a few of the other Plates were executed by Mr. E. Neale. The lithographs were printed by Messrs. M. and N. Hanhart, Mr. Walter (who printed all Mr. Gould's plates), and by Messrs. Mintern Brothers; and the colouring was intrusted to Mr. Smith and Mr. Hart, the latter of whom is well known as the artist employed by Mr. Gould during the publication of all his later works. The printing has throughout been done by Messrs. Taylor and Francis. To all of these I am much indebted for the care and attention they have bestowed on the various portions of the work in which their skill was employed.

And now that the work is completed I must ask my readers to look on the result with lenient eyes. There is much that I should alter and add were I able to

rewrite many of the articles; and no one can be more keenly aware of the many imperfections and shortcomings than myself. I have often wished that I had more time to compare specimens; but had I not pressed forward as much as possible it would have been impossible to complete the work in any thing like the time expended on it; and when I state that it has been entirely written before breakfast and after evening meal, during the few hours I could spare from the arduous duties of a city life, often working late into the night, and again recommencing my labours soon after daybreak, I trust I may claim some little indulgence. At the same time it has been a labour of love to me, and one which, though so heavy, I am, now that it draws to a close, reluctant to relinquish; but I hope, if I am spared and retain the health and strength I have hitherto enjoyed to so great a degree, to continue my labours, and to bring out, after having collected sufficient material, a work on the birds of the Eastern Palæarctic Region, excluding of course those species which occur there of which I have treated in the present work.

INTRODUCTION.

ALTHOUGH ornithology has made such rapid strides during the last quarter of a century, and many excellent works have been written on the avifauna of our island, as well as of various other European countries, yet, since the publication of Gould's 'Birds of Europe,' no work has been written in the English language on the ornithology of Europe; and it was with a view to supply this want that the present work was commenced. Dr. C. R. Bree certainly published a work entitled the 'Birds of Europe,' of which a second edition has lately appeared; but it contains merely those species which have not been met with in the British Isles, and it cannot fairly be counted as a complete work on the avifauna of Europe.

In the present work I have, as will be seen, avoided taking the limits of Europe, politically speaking, as previous authors on the subject have done, but have included the whole of the Western Palæarctic Region, and have thus adopted natural instead of political boundaries. By so doing a broad strip of Northern Africa, the Azores, Canaries, and Madeira, and the major portion of Asia Minor have been added to the area which has been hitherto included by those authors who have written on European ornithology; and I have striven as much as possible to make the present work more especially a history of Western Palæarctic birds rather than a history of the birds of the Western Palæarctic Region; that is, I have excluded those species which, though they may have occurred as rare stragglers, essentially belong to extra-limital genera.

When we contemplated the publication of the present work it was remarked to us by a well-known naturalist that we should be able to add but few species to the European list; it may therefore be of interest to ornithologists to see how far this prediction has been verified, as a comparison with the previously published works on the subject will clearly demonstrate. Temminck, in his first edition of the 'Manuel d'Ornithologie,' included 336 species; but of these I deduct 12 as being either included on insufficient grounds, or else as being bad species, thus reducing the total to 324. In his second edition he included 510 species, many of which were certainly extra-limital, and some of them not valid species; and deducting these, 48 in number, there remain only 462.

Gould includes 449 species; but of these the following, viz. *Emberiza lesbia*, *Tetrao hybridus*,

Lagopus brachydactylus, *Uria lachrymans*, *Mormon fratercula*, *Phalacrocorax cristatus*, *Phalacrocorax desmarestii*, appear to me to be bad species, and fifteen others, viz. *Nauclerus furcatus*, *Bubo ascalaphus*, *Ulula nebulosa*, *Turdus migratorius*, *Parus bicolor*, *Fringilla hyemalis*, *Corythus longicauda*, *Erythrospiza rosea*, *Sitta asiatica*, *Ciconia maguari*, *Totanus macularius*, *Mergus cucullatus*, *Sterna stolidus*, *Larus atricilla*, and *Puffinus obscurus*, are included on insufficient evidence; hence his total number is reduced to 427.

Degland and Gerbe, who included a larger area, taking in the Caucasus and a portion of Asia Minor, increased the list of European birds to 531; but of these five, viz. *Certhia brachydactyla*, *Linota borealis*, *Puffinus yelkouan*, *Sterna paradisea* (which they describe as distinct from *Sterna dougalli*), and *Podiceps longirostris*, are not good species, and thirty-eight others, viz. *Otogyps auricularis*, *Haliaëtus leucocephalus*, *Falco concolor*, *Bubo ascalaphus*, *Ceryle alcyon*, *Carpodacus roseus*, *Fringilla spodiogena*, *Emberiza striolata*, *Otocorys bilopha*, *Turdus olivaceus*, *Turdus migratorius*, *Turdus minor*, *Turdus solitarius*, *Turdus swainsoni*, *Ectopistes migratorius*, *Actitis macularia*, *Symphemia semipalmata*, *Grus antigone*, *Balearica pavonina*, *Ardeola sturmi*, *Ibis religiosa*, *Fregata marina*, *Phaeton æthereus*, *Diomedea exulans*, *Diomedea chlororhyncha*, *Procellaria capensis*, *Puffinus obscurus*, *Larus leucophthalmus*, *Larus atricilla*, *Larus bonapartii*, *Sterna bergii*, *Bernicla canagica*, *Chenalopex ægyptiaca*, *Mareca americana*, *Querquedula discors*, *Fulix collaris*, *Mergus cucullatus*, and *Fratercula corniculata*, are either birds inhabiting North Africa, which do not appear to have really occurred north of the Mediterranean, or else they are species inhabiting other zoogeographical regions which have been included as stragglers on insufficient evidence. Deducting these, the total number of species included by Degland and Gerbe amounts to 488.

In the present work I include 623 species, or, adding *Pratincola maura*, which I have since found to be a good species, 624 species in all; but of these, 10 species are restricted to the Atlantic islands and 27 to North Africa: deducting these there remain 586 species inhabiting Europe and the portion of Asia Minor which belongs to the Western Palæarctic Region, or 98 more than are included by Degland and Gerbe, 126 more than are in the second edition of Temminck's 'Manuel d'Ornithologie,' and 159 more than Gould has in his 'Birds of Europe.' Nor is the subject by any means exhausted; for it appears probable that the number of European or, rather, Western Palæarctic species may ere long be considerably increased as ornithological research is pushed in the Caucasus and Asia Minor.

Professor Bogdanoff has lately published in the 'Proceedings' of the Kazan Naturalists' Society (viii. part iv. p. 196, 1879) a list of the birds of the Caucasus, in which he includes the following species as new to the European avifauna, viz. *Buteo menetriesi*, Bogd., *Sturnus nitens*, Hume, *Hesperiphona carneipes*, Hodgs., *Montifringilla alpicola*, Pall., *Emberiza huttoni*, Blyth, *Parus phænotus*, Blanf., *Parus michalowskii*, Bogd., *Pæcile brandtii*, Bogd., *Erithacus hyrcanus*, Blanf., *Daulias hafizi*, Severtz., *Picus poelzami*, Bogd., and *Sitta rupicola*, Blanf. Of these, as will be seen, four are new species. These I have not yet had an opportunity of examining, and

I therefore cannot pass an opinion on them with any degree of certainty; but *Buteo menetriesi* appears to me to be exceedingly close to, if not identical with, *Buteo desertorum*. *Sturnus nitens*, Hume, from the Caucasus, may possibly prove to be *Sturnus purpurascens*, Gould, which species is not included by Professor Bogdanoff; and I do not think that *Montifringilla alpicola* can be fairly separated from *Montifringilla nivalis*. Professor Bogdanoff remarks that *Gecinus saundersi*, Tacz. (J. f. Orn. 1878, p. 349), is a mere variety of *Gecinus viridis*, and certainly not a valid species, and must therefore be expunged from the list. *Hesperiphona carneipes*, *Emberiza huttoni*, *Parus phæonotus*, *Erithacus hyrcanus*, *Daulias hafizi*, and *Sitta rupicola* are all inhabitants of Persia; and it is therefore not to be wondered at that they should also be met with in the Caucasus.

Hitherto the few works that have been written on the ornithology of Europe have included those species only which occur north of the Mediterranean and the Dardanelles and west of the Ural range, none of the Atlantic islands being included; but the present work embraces all the species found in the Western Palæarctic Region. This region comprises the whole of continental Europe to the Ural range, Scandinavia, Spitzbergen, the British Isles, Iceland, the Færoes, the Azores, Madeira, and the Canary Isles, a comparatively narrow strip of North Africa, reaching to the border of the desert, Asia Minor (excluding the Jordan valley, which is essentially Ethiopian), and the Caucasus. The northern and western boundaries of this region are clearly enough defined; but the eastern and southern ones are far more difficult to fix.

The eastern boundary which I have adopted consists of the Ural range of mountains and river, from the extreme northern portion of that range down to the mouth of the Ural river, from whence it skirts along the western shores of the Caspian down to the frontiers of Persia, where an imaginary line is drawn across to the Euphrates, and thence southward along the borders of the Arabian desert, so as to include Syria and Arabia Petræa down to the Red Sea; but from this I exclude the Jordan valley, which is, as shown by Canon Tristram, essentially Ethiopian.

In fixing on the above boundary I have been obliged to cut in two, as it were, the Persian subregion; for in this subregion Asia Minor and Syria as well as the whole of Persia have been included; but I do not see how I could have done otherwise, except by relegating Asia Minor and Syria to the Eastern Palæarctic Region, which would not have been feasible.

The Tropic of Cancer appears to be the best southern boundary of the region; that is, it extends to the first cataract of the Nile, in Eastern Africa, and about as far as the Ouro river on the western side of that continent. As, however, I have striven as much as possible to make the present work a history of Western Palæarctic birds, rather than a history of the birds of the Western Palæarctic Region, so as to include every species that has been met with within the borders of that region, I have deemed it advisable to exclude some few species, which, although they have straggled within the above limits, yet are purely Ethiopian, or else belong to essentially extra-limital genera. Amongst these I may enumerate *Amydrus tristrami*, *Nectarinia*

osea, *Passer moabiticus*, *Caprimulgus tamaricis*, and *Ketupa ceylonensis* (which have occurred in the Jordan valley and Palestine), *Struthio camelus*, *Pterocles exustus*, and *Pterocles senegallus* (which have been met with in Palestine, Egypt, and Algeria), *Bubo ascalaphus* and *Ammoperdix heyi* (which are recorded from the Jordan valley and Egypt), *Pycnonotus arsinoë*, *Crateropus acaciæ*, *Nectarinea metallica*, *Motacilla vidua*, *Centropus ægyptius*, *Accipiter gabar*, *Gypaetus nudipes*, *Pterocles coronatus*, *Ægialitis pecuaria*, *Rhynchæa capensis*, *Chenalopax ægyptiaca*, *Sula cyanops*, *Sterna bergii*, *Rhynchops flavirostris*, and *Larus leucophthalmus* (which occur in Egypt, some having been met with as far north even as the Nile delta), *Falco concolor*, *Otogyps nubicus*, and *Ibis æthiopica* (which have been recorded from Egypt and Algeria), *Falco chiquera*, *Fringillaria sahariæ*, *Stoparola deserti*, *Drymæca saharæ*, *Balearica pavonina*, *Ardea gutturalis*, *Hæmatopus moquinii* (which have occurred in Algeria), *Eupodotis arabs* (which has been obtained in Algeria and Morocco), and *Melierax polyzonus* (which has occurred in Morocco).

Falco babylonicus is said to have been met with in Egypt; but this species is so very closely allied to *Falco barbarus*, if indeed it can fairly be separated, that it appears probable that the bird obtained may have belonged to the latter species. *Alcedo bengalensis* appears also to straggle into the extreme south-eastern portion of the Western Palæarctic Region; but I have not included it, as it is essentially an Eastern Palæarctic bird.

The Western Palæarctic includes the whole of subregion I. and the major portion of subregion II., being two of the four subregions into which the Palæarctic Region has been subdivided. Subregion I. (the European subregion) embraces Central and Northern Europe, and is bounded on the south by the Pyrenees, the Alps, the Balkans, the Black Sea, and the Caucasus range, and by the Ural range on the east; and it includes on the north and west Spitzbergen, Iceland, and the British Isles.

Although it differs from the Siberian subregion in having a more genial climate and being more free from the extremes of heat and cold, yet many of its characteristic genera of birds are such as may also be quoted as characteristic of the Siberian subregion, or at least of the northern and central portion of that subregion. Amongst these I may name *Turdus*, *Erithacus*, *Daulias*, *Sylvia*, *Melizophilus*, *Phylloscopus*, *Hypolais*, *Locustella*, *Accentor*, *Panurus*, *Acredula*, *Tichodroma*, *Motacilla*, *Carduelis*, *Coccothraustes*, *Passer*, *Montifringilla*, *Emberiza*, *Pyrrhacorax*, *Nucifraga*, *Perisoreus*, *Gecinus*, *Iynx*, *Gypaëtus*, *Eudromias*, and *Terekia*. In the extreme southern portion of this subregion one finds in the elevated mountain-ranges of the Pyrenees, Alps, and Carpathians one or two species which are peculiar to that portion of the subregion—as, for instance, *Tichodroma muraria*, *Montifringilla nivalis*, and *Pyrrhacorax alpinus*; and *Gypaëtus barbatus* inhabits no other portion of the subregion. The northern portion of this subregion is inhabited by a considerable number of characteristic species which range round the northern portions of the entire globe, or else are represented in the northern portion of the Nearctic Region by very closely allied forms. Amongst these I may enumerate the following, which have a circumpolar range, viz. *Certhia familiaris*, *Cotile riparia*, *Ampelis garrulus*, *Linota*

linaria, *Linota exilipes*, *Pinicola enucleator*, *Plectrophanes lapponicus* and *Plectrophanes nivalis*, *Otocorys alpestris*, *Pica rustica*, *Corvus corax*, *Strix flammea*, *Asio accipitrinus*, *Nyctea scandiaca*, *Nyctale tengmalmi*, *Aquila chrysaetus*, *Falco gyrfalco*, *Falco candicans* and *Falco peregrinus*, *Pandion haliaetus*, *Phalacrocorax carbo*. Besides these, *Loxia curvirostra* and *L. bifasciata* are represented in the Nearctic Region by *L. americana* and *L. leucoptera*, both very closely allied forms; and the following are also represented in the Nearctic Region by species so closely allied that they may be treated as only climatic varieties, viz. *Asio otus* by *Asio americanus*, *Syrnium lapponicum* by *S. cinereum*, *Surnia ulula* by *Surnia funerea* (which latter has also occurred in Europe as a rare straggler), *Astur palumbarius* by *Astur atricapillus*, *Falco æsalon* by *Falco columbarius*. I may also remark that *Phylloscopus borealis* and *Motacilla flava*, which species range right across the northern portion of the Palæarctic Region, have occurred in the north-western portion of the Nearctic Region.

Amongst the Herodii only one species, *Nycticorax griseus*, has a circumpolar range; but *Ardea alba* and *Ardea garzetta* are represented in the Nearctic Region by two closely allied species, *A. egretta* and *A. candidissima*.

The Anseres are, as may be imagined, very widely distributed—two species of the genus *Bernicla*, one of *Chen*, one each of *Anas*, *Querquedula*, *Chaulelasmus*, *Spatula*, *Dafla*, *Mareca*, *Fuligula*, *Clangula*, *Cosmonetta*, *Harelda*, and *Ædemia*, three of *Somateria*, and two of *Mergus* having a circumpolar range.

The genus *Lagopus* is essentially circumpolar in its range, although only one species (*Lagopus albus*) is found throughout the circumpolar region. Of the Grallæ, *Gallinula chloropus* is found right round the globe, though it does not range further north than to about 60° N. lat.; but *Fulica atra* is replaced by a closely allied species, *Fulica americana*, in the Nearctic Region.

Of the Charadriidæ the only European representatives of the genera *Squatarola* and *Strepsilas* have a circumpolar range; and the American Golden Plover is scarcely separable from *Charadrius fulvus*; but our Oyster-catcher is replaced in North America by *Hæmatopus palliatus*.

Amongst the Scolopacidæ many species are found on both continents; two of the genus *Phalaropus*, three of *Tringa*, and one *Calidris* have a circumpolar range, whereas four of *Tringa*, one *Tryngites*, one *Bartramia*, one *Machetes*, one *Macrorhamphus*, and one *Numenius* have been recorded from both the Nearctic and Palæarctic Regions, most of them being inhabitants of the former, and mere stragglers to the latter region.

As might be expected, the Gaviæ, Tubinares, Alcæ, and Pygopodes are largely represented in both the Palæarctic and Nearctic Regions—there being seven species of the genus *Sterna*, one *Hydrochelidon*, one *Xema*, one *Rhodostethia*, one *Pagophila*, five of the genus *Larus*, three of *Stercorarius*, both species of *Procellaria*, one *Oceanites*, three of *Puffinus*, one *Fulmarus*, one

Æstrelata, one *Alca* (besides *Alca impennis*, which is now extinct, and which used to occur also off the American coasts), two species of *Lomvia*, one *Uria*, one *Mergulus*, and one *Fratercula* common to the coasts of the Nearctic and Palæarctic Regions.

Of the Colymbidæ, *Colymbus glacialis*, *C. arcticus*, and *C. septentrionalis* are all common to both continents; and of the Podicipitidæ, two of the five Western Palæarctic species, viz. *Podiceps griseigena* and *P. auritus*, are found in the Nearctic Region also.

On the islands of this subregion there are, as might be anticipated, several local forms. On Spitzbergen a peculiar form of Ptarmigan (*Lagopus hemileucurus*) is found. *Troglodytes borealis*, a distinct form of our Wren, inhabits the Færoe Islands and Iceland; and the Starling of the Færoe Isles, though not specifically separable from the common Starling, almost always has a larger and stouter bill. Great Britain possesses two species which do not occur elsewhere, *Parus britannicus* and *Lagopus scoticus*; and a third species, *Acredula rosea*, which is common and resident on our islands, has a very restricted range on the continent of Europe. Not a few species straggle westward into this subregion from the Siberian subregion, as for instance amongst the Turdinæ *T. naumanni*, *T. dubius*, *T. ruficollis*, *T. obscurus*, *T. varius*, *T. atrigularis*, amongst the Sylviinæ *Calliope camtschatkensis*, *Nemura cyanura*, amongst the Phylloscopinæ *Phylloscopus superciliaris*, *P. tristis*, and *P. plumbeitarsus*—*Phylloscopus borealis*, a common Eastern Palæarctic species, being a summer resident in the eastern portion of the present subregion, as are also *Acrocephalus agricola*, *A. dumetorum*, *Motacilla citreola*, and *Anthus gustavi*. Of the Emberizinæ *Emberiza chrysophrys* and *E. leucocephala* are stragglers from the Eastern Palæarctic Region, as are also *Acanthyllis caudacuta*, *Bernicla ruficollis*, *Querquedula formosa*, *Q. falcata*, *Turtur orientalis*, *Syrnhaptus paradoxus*, *Grus leucogeranus*, *Otis macqueenii*, and *Charadrius fulvus*.

Subregion II. of the Western Palæarctic Region, the so-called Mediterranean subregion, includes all the countries south of the Pyrenees, Alps, Balkans, and Caucasus range, a broad strip of North Africa extending to the first cataract of the Nile, and the Azores, Madeira, and Canary Islands. The climate in this subregion is much warmer than it is in Subregion I., and the entire country much more fertile; therefore the avifauna is more varied, and there are many stragglers from the neighbouring Ethiopian Region. The representative genera are tolerably numerous; and amongst them I may enumerate *Cossypha*, *Aedon*, *Luscinola*, *Cettia*, *Cisticola*, *Drymæca*, *Argya*, *Ægithalus*, *Pycnonotus*, *Telephonus*, *Erythrospiza*, *Certhilauda*, *Calandrella*, *Rhamphocorys*, *Pastor*, *Halcyon*, *Ceryle*, *Merops*, *Coccytes*, *Scops*, *Gyps*, *Vultur*, *Neophron*, *Nisaetus*, *Pelecanus*, *Ibis*, *Plegadis*, *Phœnicopterus*, *Erismatura*, *Pterocles*, *Phasianus*, *Ammoperdix*, *Francolinus*, *Tetraogallus*, *Turnix*, *Porphyrio*, *Pluvianus*, *Chettusia*, and *Hoplopterus*, many of these being largely represented in the Ethiopian and Indian Regions also. Owing to the mildness of the climate in this subregion, most of our summer migrants and many of the Central-European summer residents retire into its southern districts to pass the winter.

A noteworthy peculiarity of the present subregion is the presence, in its eastern portion, of

the Jordan valley, a long strip of country, greatly depressed, which is strictly tropical in climate, and which belongs to the Ethiopian Region. Here one finds several purely non-European forms, such as *Nectarinea osea*, *Amydrus tristrami*, *Ketupa ceylonensis*, and *Struthio camelus*, which I have consequently excluded from the present work.

On the islands included in this subregion are several representative species not found elsewhere, as for instance *Regulus maderensis*, *Anthus bertheloti*, *Serinus canarius*, *Fringilla tintillon*, *Fringilla teydea*, *Pyrrhula murina*, *Cypselus unicolor*, *Columba bollii*, *Columba laurivora*, and *Columba trocas*; and the Blackcap of the Azores is subject to melanism in those islands, which does not appear to be the case elsewhere. Although so far distant from the continent of Europe, the Azores being quite alone in mid Atlantic, the fauna of these islands is strictly Palæarctic, and it would appear that they have been peopled chiefly by stragglers from the continent of Europe, in proof of which Mr. Godman points out that the bird population is most abundant in the islands of the Azorean group which are nearest to Europe and Africa.

Mr. Wallace includes the Cape-Verd Islands in the Palæarctic Region, and remarks (Geogr. Distrib. of Anim. i. p. 215) that, though there is a mingling of the two faunas (Palæarctic and Ethiopian), "the preponderance seems to be undoubtedly with the Palæarctic rather than with the Ethiopian. I owe to Mr. R. B. Sharpe, of the British Museum, a MS. list of the birds of these islands, twenty-three species in all. Of these, eight are of wide distribution, and may be neglected; seven are undoubted Palæarctic species, viz. *Milvus ictinus*, *Sylvia atricapilla*, *S. conspicillata*, *Corvus corone*, *Passer salicarius*, *Certhilauda desertorum*, *Columba livia*; three are peculiar species, but of Palæarctic genera and affinities, viz. *Calamoherpe brevipennis*, *Ammomanes cinctura*, and *Passer jagoensis*. Against this we have to set two West-African species, *Estrilda cinerea* and *Numida meleagris*, both of which were probably introduced by man, and three which are of Ethiopian genera and affinities, viz. *Halcyon erythrorhyncha*, closely allied to *H. semicærulea* of Arabia and North-east Africa, and therefore almost Palæarctic, *Accipiter melanoleucus*, and *Pyrrhulauda nigriceps*: [the last two] are Ethiopian forms; but the same species occur in the Canaries." According to this there is much to be said in favour of extending the Mediterranean subregion to include the Cape-Verd Islands; but, after carefully considering the matter, I have deemed it inexpedient to do so.

It is chiefly during the seasons of migration that the rarer stragglers are met with within our limits, and, as a rule, more frequently in the autumn than in the spring. Migration is a subject which has only been investigated with any degree of care during the last few years; and as yet, comparatively speaking, but little is known respecting it. We have arrived at the knowledge of the fact that our Swallows pass the winter in South Africa and do not hibernate, and that the Cuckoo does not become a Sparrow-Hawk in the winter, as was firmly believed within the last hundred years; but we have yet much to learn. Mr. Gätke has, during his long residence in the island of Heligoland, collected a fund of information on the subject, and has probably done more than any one else to further our knowledge on this subject; and I may

especially refer to Mr. Seebohm's chapter on migration in his 'Siberia in Europe' (pp. 242-261), the materials for which were to a large extent obtained from Mr. Gätke. I quite agree with Mr. Seebohm that the desire to migrate is an hereditary impulse which has, during the lapse of ages, acquired a force almost as irresistible as the instinct to breed in the spring; but temperature, as well as the lack of superabundance of food, may have to do with migration, and cannot be disregarded. Thus, during unusually mild winters some even of our insectivorous soft-billed birds remain in their breeding-haunts instead of passing southward with the rest of their congeners, and the Chiffchaff has been known to winter in Great Britain. With us also several species are resident which on the continent of Europe are true migrants—a fact to be explained by the mildness of our winters compared with those in the northern portions of continental Europe; for with us they are able to find sufficient food during the winter, whereas in the north of continental Europe they would probably be starved out ere long. The soft-billed insectivorous birds appear to be the most persistent migrants, as they feed almost solely on insects. The Tits, which feed on insects and vegetable diet also, are to a large extent only partial migrants or, in some places, residents. Where they find a sufficiency of food they remain all the year round; but when food becomes scarce they lead a rambling, gipsy life, sometimes not travelling far, and at others migrating to some distance. In countries where they are permanently resident they develop into local races, or even fairly distinct species; thus our English Coal Titmouse has become in the course of time quite easily separable from *Parus ater*, its continental ally, and has been separated under the name of *Parus britannicus*; and the Blue Titmouse of North Africa, *Parus teneriffæ*, has diverged from *Parus cæruleus* into a perfectly good species. The Dippers afford another instance of this; for although they are exclusively insectivorous, they are able to obtain a sufficiency of food without migrating to southern climes, and are therefore residents, or only straggle from one stream to another, seldom traversing any considerable distance. Consequently they have merged into several closely allied though fairly separable forms, of which we have in Europe alone three, *Cinclus melanogaster*, *Cinclus aquaticus*, and *Cinclus albicollis*. Our common Chaffinch, *Fringilla cœlebs*, which is a migrant in most parts of the tract over which its range extends, is represented in the north of Africa and in the Azores by two closely allied but perfectly distinct species, *Fringilla spodiogena* and *Fringilla tintillon*, both of which are non-migratory, and consequently have in the course of time become specifically separable. The common Turtle Dove is also replaced in North-east Africa by a form (*Turtur isabellinus*) which evidently has sprung from the same parent stock, but which, being resident in that portion of Africa, has become a perfectly valid and well-separated species.

It is especially noteworthy that the young birds of the year are the first to migrate south in the autumn, and not, as one would at first suppose, the old birds; and this may account for the fact that so many of our rarer visitants appear in the autumn and are young birds, probably such as have wandered out of the direct course. It appears also that birds when migrating

travel at a great altitude, and migration takes place chiefly during the night. Mr. Seebohm (op. cit. p. 255) says:—"The period of migration of each species lasts about a month. In spring during the first week the flocks consist principally of adult males; during the second week they principally consist of adult females; in the third week follow the birds of the year; whilst finally, during the last week, arrive the cripples—birds which have lost their toes, birds with half a tail, birds with one mandible abnormally long, or birds with some other defect. In autumn the order of migration is somewhat different. For weeks before the regular period of migration is due stragglers in various stages of plumage arrive, loaf about in a desultory manner for a few days, and then disappear. Some of these birds are in summer plumage, some of them in their winter dress, whilst others are in a transition stage, moulting as they migrate. These *avant-couriers* are supposed to consist of barren birds, odd birds who have been unable to find a mate, or birds whose nests have been destroyed too late in the season to allow a second nest to be made. Having nothing else to do, the hereditary instinct to migrate not being checked by the parental instinct, they yield to its first impulses, and drift southwards before the general body of their species. When the period of migration sets in in earnest, astounding as the fact is, it is nevertheless true, that the birds of the year are the first to migrate, birds which of course have never migrated before. This circumstance, which all the Heligolanders with whom I conversed agreed in corroborating, may, to a large extent, account for the fact that the rare stragglers recorded as visiting Heligoland and other countries are for the most part birds of the year on their first autumn migration. It is not to be wondered at that on their first journey they should frequently stray from the direct course. Probably the mortality amongst birds of the year is very great, especially amongst those who take the wrong road on their first migration." The line of migration is certainly not invariably from the south to the north in the spring, and in the contrary direction in the autumn, as was supposed by some naturalists, but the direction is frequently diagonal. Gätke informed Mr. Seebohm that in his opinion the direction taken by some species is east and west, whereas Aeuckens, the birdstuffer on Heligoland, maintained that birds migrate north-east in spring and south-west in autumn; and this latter hypothesis appears to me to be in many cases correct; for when in Southern Spain in May I observed large numbers of Grey Plovers, Little Stints, and Pygmy Curlews, birds which certainly breed in the extreme north-east of Europe and in Northern Asia, passing in a north-easterly direction, most of them being in almost full breeding-dress. That the line of migration taken in the spring differs from that taken in the autumn reversed, seems certain, at least to a large extent, to judge from the fact that many species which occur on the shores of Great Britain in the spring in considerable numbers, are seen, only in much smaller numbers, in the autumn, and *vice versâ*.

A most interesting communication relative to the migration of birds has lately been published by Mr. W. E. D. Scott (Bull. Nutt. Orn. Club, 1881, pp. 97–100), clearly showing that birds not only migrate by night, but at a very great altitude, say of from one to four miles

above the earth, at which height they are able to distinguish the prominent features of the landscape, such as coast-lines, the principal watercourses, mountain-chains, &c. They usually migrate during clear weather, when they can discern the landmarks on the earth below them—supposing that they are to some extent guided by landmarks; and if this is the case the bewilderment they exhibit when thick weather sets in is explained by the fact that, their landmarks being obscured, they are at a loss to know what course to pursue, and consequently descend to the nearest resting-place on the earth. At the same time I must add that, it appears to me, the hypothesis that birds are guided by landmarks below them is not confirmed by more recent observations. Mr. Scott made his observations when looking at a number of objects through the nine-inch equatorial at the astronomical observatory at Prince Town, New Jersey, in October 1880, when, the night being clear, he could see the birds passing across the field of observation clearly defined against the bright background.

The above statement as regards the altitude at which birds travel has been corroborated by Mr. Gätke, who has come to the same conclusion from careful observations made on Heligoland during nearly forty years. I lately spent a week on Heligoland, and was astonished to see the mass of information on the subject he has collected, and which will ere long be published in a work he is on the eve of issuing, which will be a most valuable essay on the difficult and so little understood subject of migration. He believes, and (as far as I could judge by a glance through his rough notes) on excellent grounds, that birds migrate at an altitude of from one (at least) to two miles above the earth, and that they travel at a speed far above what has hitherto been surmised—the heavy Hooded Crow even attaining a speed of fully twenty-seven geographical miles per hour, and many other species travelling at a much greater speed. He surmises that the Red-spotted Bluethroat (*Cyanecula suecica*) passes from North Africa to Heligoland in a single night, which gives a rate of locomotion of about forty geographical miles per hour, a speed which he believes may easily be attained at altitudes where the air, being so rarefied, offers, comparatively speaking, so little resistance; and it is certainly true that the first point north of its winter quarters where this bird is found in considerable numbers is Heligoland. In a letter to Professor Baird, of which he gave me a copy, he makes some interesting remarks on the subject of migration, which I may transcribe as follows, especially as he is strongly of opinion that birds are not in the least influenced by the contour of the countries over which they pass in the choice of the direction they take. He says:—“That the direction of the course of wandering birds should be influenced by river-courses or mountain-chains is a point which I do not agree to, at least so far as Europe comes under contemplation. Here during the fall the route of miscellaneous species is so varied that the two principal hosts cross each other at right angles, one great mass progressing due west from the furthest east of Asia (e. g. *Anthus richardi*, *Sylvia superciliosa*) and continue their course to Heligoland, England, France, and Spain. Besides these, all the rare autumnal visitors come here from the far east of Asia, which proves that there must be with birds of these regions a strong inherent tendency to a western migration, even in species

whose real winter quarters are in the south of India down to the Sunda Isles, as, for instance, the two named above. This line of flight diverges abruptly to the north when approaching the Atlantic, in England, Western France, and Spain; *vide* the immense numbers crossing the Straits of Gibraltar.

“This westerly current is cut at right angles by another host coming simultaneously down from the extreme north of Europe and Asia, and steering due south for their winter quarters, viz. the Willow-Warblers, *Phylloscopus trochilus* and *rufus*, which go from the North Cape of Scandinavia to the Cape of Good Hope, *P. tristis* and *borealis* from Northern Europe and Asiatic Russia down to the south of India and China. The latter, together with *Falco rufipes*, *Motacilla citreola*, *Anthus cervinus*, *Emberiza aureola*, and *Limosa cinerea*, all plentifully breeding so close to Heliogoland as the Onega, Dvina, Mezen, and Petchora districts, but still never, or very rarely, turning up here during their autumnal flights, proves in itself their southern course, without the least western inclination, even if they were not observed down the Ural, the Black Sea, Turkestan, &c. The most striking instance of such a movement is seen in *Sylvia philomela*, which breeds in the south of Sweden, and nevertheless has been observed here but once during the last forty years. A few can be pointed out as going from north-east to south-west, namely *Sylvia suecica* and *Alauda alpestris*. These and all the others enumerated are joined by hosts of the more common ‘million,’ which are spread far and wide over the entire Northern Palæarctic Region.

“What under such circumstances becomes of the routes of birds by river-courses or mountains? How many great rivers *Anthus richardi* has to cross, almost at right angles, during his autumnal flight from Dauria to France and Spain! I maintain that the migratorial movement, particularly the vernal one, when in normal progress, is performed by the great majority of birds far beyond the conception of man, and that what we see of the same are but the irregularities and interruptions thereof, brought about by atmospheric agencies. Your opinion that the spring line of flight is widely different from that of the fall, I most completely participate in. All the different routes enumerated in the foregoing are dropped, and a more or less direct course toward the polar regions adopted—the wide front of the winter quarters, extending from the west of Africa to the east of China, the Philippines, Borneo, &c., concentrating during this northerly passage to less than half its original stretch.

“A proof of this latter assertion is rendered by the fact that of all the eastern birds which visit Heligoland during their autumnal migration none appear during their return journey, the track to the south which terminated their western flight having brought them to far lower latitudes; while in spring, as they pursue a direct course to their northern breeding-grounds, they leave all these western countries to their left.

“While the ‘rare birds’ here during the autumn are, without exception, eastern species, those of the spring are as uniformly from the south-east—Greece, Asia Minor, Turkestan, &c. Singular it is that almost no exceptional bird has come here from the south or west, *i. e.* so far

as the 'Old World' is concerned. In what eminent manner the 'far west' is represented, I have told you at an earlier period.

"And this leads me to the route which American birds follow to Europe. I do not much lean to the supposition that storms have in any considerable degree to do with such extra tours; and why Newton and others advance so strongly the Greenland, Iceland, &c. route I cannot comprehend. I fancy they never contemplated the possibility of a bird coming in a direct line from Newfoundland to Ireland—in other words, that a bird might be able to sustain an uninterrupted flight sufficient to carry it across the Atlantic. My researches have led me to the belief that such is not alone far from being impossible, but that the probability of such a fact, wonderful as it may appear, is borne out by good evidence."

It is somewhat remarkable that so many American species should have been obtained on this small island; and I may mention that in Mr. Gätke's unique collection I observed fine examples of *Turdus migratorius*, *Turdus swainsoni*, *Mimus carolinensis*, *Harporhynchus rufus*, *Dendræca virens*, and *Charadrius virginicus*, which species I have not deemed it advisable to include in the European avifauna.

One subject that is worthy of especial notice is the variation in coloration of plumage in many species; and it is a difficult matter to decide whether these forms should be treated as distinct species or only as climatic varieties of the same species. Amongst these I may enumerate *Phylloscopus superciliosus* and *Phylloscopus humei*, *Phylloscopus viridanus* and *Phylloscopus nitidus*, which differ merely, and but very slightly, in tint of plumage. One observes these differences in tint of plumage more especially on islands. On those which are at some distance from the mainland, where the sun is often obscured, and the atmosphere is dull and heavy, the plumage of the brighter-coloured birds is more sober and dull. Our Greenfinch under the bright skies of Southern Europe and North Africa becomes so richly coloured that it has been described as a distinct species; and our common Linnet, *Linota cannabina*, in South-eastern Europe and Asia Minor is very much brighter in tint of colour; and so richly coloured are specimens from Gilgit that Dr. Scully is inclined to separate specifically the birds obtained there. I was also much struck with the rich and deep coloration of the specimens obtained by him of *Carpodacus erythrinus*, which are much darker and deeper in tint of coloration than any I have seen. Examples from India are, as a rule, more pink and paler than those from Eastern Europe; but those obtained by him are darker and much redder than any I have seen from Europe. Another species that varies widely according to the locality where it is procured is *Galerita cristata*; and it is only by collecting together a large series from various localities that one can prove that all the various forms are mere varieties, excepting *Galerita isabellina*, which inhabits the desert portion of North Africa, and is a pale sandy-coloured but constant form of our Crested Lark, and *Galerita macrorhyncha*, which has become specifically separable from *Galerita cristata*. In many species which frequent the desert region one finds forms not differing from examples of the same species found in more fertile regions, except in tone of

colour; thus three desert forms of the Chukar Partridge have been described by Mr. Hume as distinct species, under the names of *Caccabis pallidus*, *C. pallescens*, and *C. arenarius*, none of which appear to me to be worthy of specific rank. American ornithologists have of late adopted the plan of designating such by means of trinomial appellations, and would call these three forms *Caccabis chukar pallidus*, *Caccabis chukar pallescens*, and *Caccabis chukar arenarius*; but this appears to me a highly objectionable retrograde step, as it will only tend to make the study of ornithology more difficult instead of simplifying matters.

It will be necessary to make a few remarks relative to the classification I have adopted in the present work, especially as I have departed from that which has hitherto been so universally employed by authors who have written on European ornithology. Recent research has shown that the old Cuvierian system of classification, in which the Raptores head the list, cannot stand; and it is universally conceded that a fresh classification is absolutely necessary. Having carefully considered the matter, I came to the conclusion that Professor Huxley's classification of birds is undoubtedly the best in principle, especially as it is the one which anatomists agree in adopting; I have therefore made use of it, though in so doing I have, as will be seen, adopted his principle rather than his practice, and have accepted the modifications which have been suggested since his first paper on the subject, and more especially those proposed by Mr. Sclater, who appears to have been the first to make practical use of Professor Huxley's system, and has done much to popularize it. An article recently published by him (*Ibis*, 1880, pp. 340–350, and 399–411) gives the outlines of this classification of birds; and I may refer such of my readers as may wish for further details respecting the same to it. The basis of this system of classification was first proposed by Professor Huxley in 1867 (*P. Z. S.* 1867, pp. 415–472), in a paper "On the Classification of Birds; and on the Taxonomic Value of the Modifications of certain of the Cranial Bones observable in that Class." In this paper he points out that birds are so nearly allied to reptiles in all the essential and fundamental points of their structure that to associate them into one primary group of the Vertebrata, the Sauropsida, as formerly proposed by him, is a necessity; and in proof of this he enumerates the principal points in which Aves and Reptilia agree with one another and differ from the Mammalia. Having arrived at the conclusion that the class Aves, while well enough defined from all existing Reptilia, is more closely connected with this class than with any other, he proceeds to divide it into three orders—the Saururæ, the Ratitæ, and the Carinataæ. The first of these is represented by the solitary fossil *Archæopteryx*, and has no representative at present in existence; the second class, the Ratitæ, contains the Struthious birds, which have no keel developed on the sternum; and the third class embraces all existing birds except the Ratitæ, which have the sternum keeled, and ossified from a median centre in that keel, as well as from lateral paired centres. Of these three classes the Carinataæ alone are represented in Europe; and therefore with them only are we concerned. These birds are divided by Professor Huxley into four suborders, according to the peculiarities in the arrangement of the palatal bones, as these characters, being independent

of external circumstances, must have arisen from genetic divergences. Of these suborders three, viz. *Ægithognathæ*, *Desmognathæ*, and *Schizognathæ*, are represented in our region, the *Dromæognathæ* containing only the Tinamous, which are exclusively Neotropical birds. For these orders and suborders I have not used the same titles as were bestowed on them by Professor Huxley; but here I have followed Mr. Sclater in modifying the classification, and in using such of the names already in use among ornithologists as can fairly be woven into the new system.

The *Ægithognathæ* and *Schizognathæ* have the maxillo-palatine bones free and separate from one another, not joining in the middle line, the first of them having the anterior end of the vomer truncated or cut off nearly square, and the second having the vomer pointed in front; whereas the *Desmognathæ* have the maxillo-palatines united in the middle line. In the article above quoted Professor Huxley arranges the *Schizognathæ* first, then the *Desmognathæ*, and concludes with the *Ægithognathæ*; but he subsequently (*Anat. of Verteb. Anim.* pp. 233–255) modified his ideas to some extent, and in his arrangement commenced with the *Schizognathæ*, then following with the *Ægithognathæ*, and concluding with the *Desmognathæ*. I have, however, deemed it expedient to follow Mr. Sclater, and have therefore commenced with the *Ægithognathæ*, then taking the *Desmognathæ*, and concluding with the *Schizognathæ*; for in any case it appears most advisable to an ornithologist to head the list with the *Passeres*. To arrange the different families in linear order is a simple impossibility; for a scheme of classification must be compared to a genealogical tree, of which the trunk and the bases of its main branches are buried in the waters of obscurity, and the smaller branches alone are seen above the surface; therefore one must take one of the branches from as near the base as we can now trace it, and follow it up to its smaller branches and leaves, and then, relinquishing it, go to work on another in the same manner. In this way each must separately be treated; and by so doing the apparent incongruity of ranging widely different species next to each other vanishes; for the one will be found to spring from a totally different branch from the other.

In this manner I have subdivided the *Ægithognathæ* into three orders, viz. *Passeres*, *Macrochires*, and *Pici*; the *Desmognathæ* into five orders—*Coccyges*, *Accipitres*, *Steganopodes*, *Herodii*, and *Anseres*; and the *Schizognathæ* into eight, viz. *Columbæ*, *Gallinæ*, *Grallæ*, *Limicolæ*, *Gaviæ*, *Tubinares*, *Alcæ*, and *Pygopodes*.

As may be supposed, I have found the greatest difficulty in the classification of the *Passeres*; and I am fully aware that the conclusions at which I have arrived are in many respects open to criticism; but the classification of the *Passeres* is a task that has troubled wiser heads than mine, and is likely still to remain unsettled for some time to come. I am glad to find that, on the whole, the classification I have adopted agrees tolerably closely with that recommended by Mr. Sclater, whose essay on the subject (*l. c.*) is certainly the best that has yet appeared. He, however, (following Sundevall) separates the Larks entirely from the rest of the *Oscines*, calling the former *Scutiplantares*, and the latter *Laminiplantares*, whereas I have placed the Larks merely

in one of the five sections of the Oscines, calling them Oscines scutellipantares. Unfortunately I had already worked out my system before his papers on the subject were published: but I must not omit to acknowledge the great assistance rendered to me from time to time by him; for he was always ready to give me the best advice when I found myself in want of it.

In the subdivision of the Desmognathæ Mr. Sclater separates the Striges from the Accipitres, making a separate order of each, whereas I place them in two suborders of the order Accipitres; otherwise we agree in our subdivisions.

As regards the Schizognathæ, my order Grallæ is equal to his Geranomorphæ, except that he includes the Otidæ in that order, whereas I have placed them in the order Limicolæ.

Besides the assistance I have received from Mr. Sclater, I am greatly indebted to Professors Newton and Parker, and Messrs. Salvin and H. T. Wharton for the cooperation they have so readily afforded me during my task of working out the classification. Professor Newton strongly urged me to commence the Passeres with the Crows, as being, in his opinion, the most representative family; and for many reasons I was at first inclined to do so; but eventually I decided to follow Mr. Sclater's practice, and to commence with the Thrushes, so as to avoid making any alteration that was not absolutely necessary in the arrangement of the families as proposed by him.

LITERATURE.

It was my intention to give a chapter on the bibliography of European ornithology, together with as complete a list as possible of all works, as well as all separate papers, on the subject, published since 1766; and for that purpose I collected together a considerable amount of material. But the number of papers, especially of short articles, is so great that it will be too large an undertaking, and would take up too much space, to be included in the introduction to the present work; I must therefore defer its publication, and, if possible, issue it in a separate pamphlet. It will, however, doubtless be of use to my readers to have particulars of the best works of reference on European ornithology; and I therefore give their titles, classified under the names of the different countries, in the same manner as was done by Mr. Sclater in his 'Address to the Biological Section of the British Association' delivered at Bristol in 1875.

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- Savi, P.* Ornitologia Toscana. 3 vols. 8vo. Pisa, 1827-1831.
- Savi, P.* Ornitologia Italiana. 3 vols. 8vo. Florence, 1873-76.
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- Wright, C. A.* List of the Birds observed in the Islands of Malta and Gozo. (Ibis, 1864, pp. 42-73, 137-157, 291, 292; 1865, pp. 459-466; 1869, pp. 245-256; 1870, pp. 488-493.)

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- Drummond, H. M., and Strickland, H. E.* List of the Birds of Crete. (Ann. & Mag. Nat. Hist. xii. p. 423.)
- Elwes and Buckley.* A List of the Birds of Turkey. (Ibis, 1870, pp. 59-77, 188-201, 327-341.)
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- Krüper, Th.* Notizen über Griechenland. (J. f. Orn. 1862, pp. 360, 435.)
- Krüper, Th.* Brutvögel von Naxos. (J. f. Orn. 1863, p. 402.)
- Krüper, Dr. Th., und Hartlaub, G.* Zeiten des Gehens und Kommens und des Brütens der Vögel in Griechenland und Ionien. (Mommensen's Griechische Jahreszeiten, Heft iii. Schleswig, 1875.)
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Drummond, H. M. List of Birds found in the Vicinity of Tunis and Bizerta. (Ann. & Mag. Nat. Hist. xvi. p. 102, 1845.)
Gurney, J. H., jun. Six Months' Bird-collecting in Egypt (in 'Rambles of a Naturalist'). 8vo. London. No date.
Gurney, J. H., jun. On the Ornithology of Algeria. (Ibis, 1871, pp. 68–86, 289–301.)
Heuglin, Th. von. Ornithologie Nordost-Afrika's, &c. 4 vols. Roy. 8vo. Cassel, 1869–1874.
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Loche. Exploration Scientifique de l'Algérie, &c., Oiseaux. 2 vols. Folio. Paris, 1867.
Salvin, Osbert. Five Months' Bird-nesting in the Eastern Atlas. (Ibis, 1859, pp. 174–191, 302–318, 352–365.)
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Tristram, H. B. On the Ornithology of N. Africa. (Ibis, 1859, pp. 153–162, 277–301, 415–435; 1860, pp. 68–83, 149–165, 361–375.)

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- Bolle, C.* Bemerkungen über die Vögel der Canarischen Inseln. (Journ. f. Orn. 1854, p. 447; 1855, p. 171; 1857, pp. 258, 305.)
Godman, F. DuCane. Notes on the Resident and Migratory Birds of Madeira and the Canaries. (Ibis, 1872, pp. 158–209.)

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Vernon Harcourt, E. Notes on the Ornithology of Madeira. (Ann. & Mag. Nat. Hist. 1855, pp. 430–438.)

Webb, P. B., et Berthelot, S. Histoire Naturelle des Iles Canaries. 4to. Paris, 1835–1850.

In the foregoing list I have given, as concisely as I can, the titles of such works as I believe will be found of use to students of Western Palæarctic Ornithology, omitting such as appear to me to be of but little value for reference. Amongst those which I have found most useful for general reference I may enumerate the following, viz.:—*Great Britain.* Macgillivray's 'British Birds,' which will always rank high as containing such excellent field-notes; Yarrell's 'British Birds,' which is perhaps the best work of reference on British ornithology, the fourth edition by Professor Newton being especially reliable, and indeed, when completed, it will be by far the best work on our avifauna. Gould's 'Birds of Great Britain' certainly stands preeminent as far as the magnificent illustrations are concerned; but the letterpress is far from being equal to the plates.

On European ornithology generally, the most useful handbook is Degland and Gerbe's 'Ornithologie Européenne,' which I have found better for reference than Fritsch's 'Vögel Europa's,' though the latter is a cheap and useful work. Gould's 'Birds of Europe' contains excellent illustrations; but the letterpress is now far behind the times, and it is rather heavy and cumbersome, as well as expensive. For *Scandinavia*—Collett's 'Remarks on the Ornithology of Northern Norway,' Collin's 'Skandinaviens Fugle,' and Nilsson's 'Skandinavisk Fauna' are all worthy of commendation; but Professor Sundevall's 'Svenska Foglarne' is, so far as it goes, certainly the best work on the birds of Sweden; but unfortunately it was incomplete when he died, and will probably never be completed. *Russia* appears sadly wanting in a good general work on the avifauna of that vast empire, and I know of no single work that I can recommend, although there are, as will be seen by the foregoing list, not a few local catalogues; but *Finland* can boast of a very excellent little work, 'Finland's Foglar,' the first volume of which was written by my friend the late Magnus von Wright, and the second volume (published after his death) by Palmgren.

But the best and most reliable work on continental European ornithology is undoubtedly Naumann's 'Naturgeschichte der Vögel Deutschlands,' a work of which I cannot speak in too high terms, and one which every ornithologist who can read German should possess. Fallon's 'Oiseaux de la Belgique' is a tolerably useful little book on Belgian ornithology; and Schlegel's 'Vogels van Nederland' is a most reliable work on the birds of Holland, and has excellent illustrations. As regards French ornithology there are many useful works on local natural history; but, excepting Degland and Gerbe's 'Ornithologie Européenne,' and Vieillot's 'Faune Française,' there is no work that treats of the birds of France as a whole; and the latter of these is now rather out of date. Bailly's 'Ornithologie de la Suisse' must also be cited here as an almost indispensable work of reference. *Spain* and *Portugal* both lack a good general work on their ornithology; but Colonel Irby's 'Ornithology of the Straits of Gibraltar' gives first-rate data

respecting the birds of Southern Spain, and Lord Lilford's and Mr. Howard Saunders's papers on the ornithology of Spain, contain a considerable amount of useful information. As regards *Italy*, the best and most reliable works, so far as I can judge, are Salvadori's 'Uccelli d'Italia' and Savi's posthumous work 'Ornitologia Italiana,' which were published within a year of each other, and which contain almost all the latest information on the avifauna of Italy.

For *Greece* the best reference list is Krüper and Hartlaub's 'Griechische Jahreszeiten,' which contains all the information given in Linder Mayer's 'Vögel Griechenlands' and von der Mühle's 'Beiträge zur Ornithologie Griechenlands,' as well as later information and some field-notes collected by Dr. Krüper. As far as *Turkey* and *Asia Minor* are concerned, the only information to be obtained must be gathered from the various papers published in different periodicals, of which I give a list; but Shelley's 'Birds of Egypt' and Loche's 'Expl. Scient. de l'Algérie, Oiseaux' give full information respecting the avifauna of *North Africa*, as do Godman's "Notes on the Birds of Madeira and the Canaries" and 'Natural History of the Azores' on that of the *Atlantic Islands*.

ADDENDA ET ERRATA.

As ornithology is gradually, but steadily, making onward strides, and as, during the last ten years which have elapsed since I commenced the publication of the present work, ornithologists in Great Britain, as well as elsewhere in Europe, have been unusually active, much which when I wrote the earlier articles was buried in obscurity has since been brought to light. Large collections have been sent to Europe from localities whence I could then only obtain an old specimen or two; and many leading ornithologists have devoted themselves to working out small groups monographically, and have consequently thrown new light on many knotty points. Almost every week some moot question gets cleared up; for every step that a working ornithologist takes serves as a guide to those that follow after, and his work forms a basis on which his successor can build, until by degrees a tolerably good structure is erected. Hence much that I have written requires correction and emendation; and I have therefore deemed it advisable to give the following list of addenda et errata:—

VOL. II.

- Letterpress to Vol. II., species 10. *Turdus atrigularis*, for 1878 69, 70, read 1877 59, 60.
" " species 89. *Acrocephalus arundinaceus*, for 1877 57, 58, read 1878 67, 68.
Page 3. Add *Turdus bonapartei*, Cab. J. f. O. 1860, p. 183.
23. *Turdus musicus* appears to be replaced in China by *Turdus auritus*, Verr.
35. Add *Turdus illas*, Pall. Zoogr. Rosso-As. i. p. 456 (1811).
59. Add *Turdus abrekianus*, Dybowsky, J. f. Orn. 1876, p. 193.
67. Add *Turdus hyemalis*, Dybowsky, J. f. O. 1872, p. 439.
71. Add *Turdulus pallens* (Pall.), Godw.-Austen, J. As. Soc. Beng. xliii. pt. 2, p. 178 (1874).
87. Add *Oreocinclla inframarginata*, Blyth, J. A. Soc. Beng. xxix. p. 106 (1860), *Turdus inframarginatus* (Blyth), Gray, Hand-l. of B. i. p. 254. no. 3694 (1869), *Geocichla mutabilis* (Temm.), S. Müller, fide Blyth, Ibis, 1870, p. 167, *Merula sibirica* (Pall.), Dyb. J. f. Orn. 1872, p. 437, and *Turdulus sibiricus* (Pall.), Hume, Stray Feathers, vi. p. 255 (1878).
91. Add *Merula nigra*, Leach, Syst. Cat. M. & B. Brit. Mus. p. 20 (1816), and *Turdus menegazzianus*, Perini, Ucc. Veron. p. 56 (1858).
129. Add *Turdus infaustus* (Gm.), Lath. Ind. Orn. i. p. 335 (1790), *Saxicola saxatilis* (L.), Rüpp. Neue Wirbelth. Vög. p. 80 (1835), and *Orocetes saxatilis* (L.), Horsf. & Moore, Cat. B. Mus. E.I. Co. i. p. 189 (1854).

- Page 199. Add *Saxicola valida*, Licht. Nomencl. Av. p. 35 (1854), and *Dromolæa isabellina* (Rüpp.), Loche, Expl. Sci. Algér. Ois. i. p. 201 (1867).
203. Add *Saxicola albicollis* (Vieill.), Bp. Consp. Gen. Av. i. p. 303 (1850).
211. Delete *Saxicola hendersoni*, Hume, et *Saxicola talas*, Severtzoff.
219. According to Mr. Seebohm (Cat. Turd. Brit. Mus. p. 370), both *Saxicola erythræa*, Ehr., and *S. halophila*, Tristr., refer to the young of *Saxicola lugens*, Licht., i. e. *Saxicola leucomela* (Pall.), mihi, p. 231; but of this I have been as yet unable to convince myself satisfactorily, though at the same time I believe that I was in error in identifying the species there referred to, and figured by me on Pl. XXIX., with the Arabian Chat, and think it highly probable that Mr. Seebohm may be right. The Arabian Chat figured on Pl. XXVIII. will stand as *Saxicola finschii*; and the synonyms *Saxicola erythræa* and *Saxicola halophila* will have to be expunged from the list.
223. Tristram's Chat (Pl. XXX. and Pl. XXXII. fig. 2) will stand as *Saxicola mæsta* (see p. 229).
227. The Red-rumped Chat (Pl. XXXI. and Pl. XXXII. fig. 1) will stand as *Saxicola xanthoprymna* (see p. 229).
231. According to Mr. Seebohm (Cat. Turdidæ, p. 370) the Pied Chat should stand as *Saxicola lugens*, and not as *Saxicola leucomela*.
235. Recently received collections containing a large series of *Saxicola hendersoni* show that this species should be united to *Saxicola morio*, as pointed out by Mr. Seebohm.
263. Since writing the article on *Pratincola rubicola* I have found that the Eastern form can be distinguished from the West-European species by the upper tail-coverts, which in the former species are unspotted white, whereas in the true *Pratincola rubicola* they are marked with dark colour; and in the Eastern form the axillaries are much blacker than in true *P. rubicola*; but these distinctions are not so clearly discernible in immature and autumn-killed examples, though they are sufficient to enable one to separate the two species. Under these circumstances I think it advisable to separate the Eastern form under the name of *Pratincola maura*, the synonymy being as follows:—

Motacilla maura, Pallas, Reis. Russ. Reichs, ii. p. 728, no. 17 (1773).

Sylvia maura (Pall.), Latham, Ind. Orn. ii. p. 526, no. 62 (1790).

Saxicola rubicola, Frankl. P. Z. S. 1831, p. 119 (nec Linn.).

Saxicola rubicola, Temm. & Schl. Faun. Jap. Aves, p. 58 (1842, nec Linn.).

Saxicola saturator, Hodgs. in Gray's Zool. Misc. p. 83 (1844).

Pratincola indica, Blyth, J. A. Soc. Beng. xvi. p. 129 (1847).

Saxicola rubicola, Schrenck, Amur-Lande, i. 2, p. 358 (1860).

Pratincola indica, Blyth, Jerdon's B. of Ind. ii. p. 124, no. 483 (1863).

Pratincola indica, Blyth, Swinhoe, P. Z. S. 1871, p. 360, no. 167.

These references will therefore have to be expunged from the synonymy of *Pratincola rubicola*; and the references to the occurrences of the Stonechat in Asia and in the extreme eastern portion of Russia in Europe will refer to *Pratincola*

maura, and not to *P. rubicola*; for the former species is certainly found in Eastern Russia, though it is difficult to say where the range of *P. rubicola* ends and that of *P. maura* commences.

- Page 277. Add *Erithacus phoenicurus* (Linn.), Degl. Orn. Eur. i. p. 502 (1849), and *Luscinia phoenicurus* (Linn.), Sundevall, Sv. Fogl. p. 59 (1856).
281. According to Mr. Seebohm the Redstart "breeds as far east as the watershed of the Yennesei and the Lena."
285. Add *Ruticilla bonapartii*, von Müll. Beitr. Orn. W.-Afr. pl. xiv. (1853), *Ruticilla mesoleuca* (Ehr.), Cab. J. f. Orn. 1854, p. 446, and *Ruticilla marginella*, Bp. Compt. Rend. xxxviii. p. 8 (1854).
286. Ehrenberg's Redstart winters, it appears, in Western Arabia, Abyssinia, and Senegal.
289. Mr. Seebohm (Cat. Turd. Brit. Mus. p. 344) separates the species found in Palestine and Syria from *R. rufiventris* under the name of *Ruticilla semirufa*, in which I cannot agree with him; and, indeed, he himself owns that "it is scarcely more than a local race."
293. Add *Motacilla ochrura*, Gmel. Reis. Russl. iii. p. 101, pl. xix. fig. 3 (1774), *Ruticilla thitis* (Scop.), Rüpp. Syst. Uebers. p. 57 (1845), and *Ruticilla ochruros* (Gmel.), Bogd. B. Cauc. p. 96 (1879).
341. Add *Melodes calliope* (Pall.), Newt. List B. Eur. Blas. p. 10 (1862), and *Cyanecula camtschatkensis* (Gmel.), Gray, Hand-l. of B. i. p. 224, no. 3202 (1869).
347. Add *Irania albigula*, Severtzoff, Turk. Jevotnie, pp. 65, 122 (1873).
- 383, line 22. Should be *Sylvia affinis*, Blyth, Cat. B. Mus. As. Soc. p. 187 (1849).
389. Add *Dumeticola subalpina* (Temm.), Homeyer, J. f. O. 1862, p. 279.
399. The bird described and figured as the adult female of *Sylvia melanothorax* is, as I have since ascertained from an examination of a further series of specimens, a young bird. The female scarcely differs from the male in plumage.
401. As stated at p. 407, I have recently ascertained that *Sylvia momus* should be separated from *Sylvia melanocephala*.
- 417, line 3. Should be *Sylvia rüppellii*, Temm. Pl. Col. iii. p. 245, fig. 1 (1823).
435. Add *Philacantha nisoria* (Bechst.), Swinh. P. Z. S. 1871, p. 355.
509. Add *Sylvia borealis* (Blas.), Gray, Hand-l. of B. i. p. 216, no. 3063 (1869), and *Phyllopneuste javanica*, Bonap. apud Salvad. Ucc. Born. p. 244 (1874).
517. Add *Sylvia flaveola*, Vieill. Nouv. Dict. xi. p. 185 (1817). *Salicaria hypolais* (Linn.), Filippi, Mus. Mediol. p. 30 (1847), and *Hypolais salicaria* (Linn.), Fritsch, Vög. Eur. p. 161 (1870).
521. Add *Salicaria italica*, Salvadori, Att. R. Ac. Sc. Tor. iii. p. 268 (1868).
537. Add *Calamodyta elaiica* (Linderm.), Gray, Gen. of B. i. p. 172 (1848), *Acrocephalus pallidus* (Ehr.), Heugl. Orn. N.O.-Afr. i. p. 294 (1869), and *Salicaria tamariceti*, Severtz. Turk. Jevotnie, pp. 66, 131 (1873).
541. Add *Salicaria microptera*, Severtzoff, Stray Feathers, iii. p. 425 (1875), and *Locustella salicaria* (Linn.), apud Tacz. Bull. Soc. Zool. Fr. 1876, p. 139.

- Page 559. *Acrocephalus agricolus* should be *Acrocephalus agricola*. Add *Salicaria modesta* et *gracilis*, Severtzoff, Turk. Jevotnie, p. 66 (1873).
561. Add *Acrocephalus montanus* (Sykes), Blyth, J. As. Soc. Beng. xiv. p. 594, and *Salicaria euryncha*, *sphenura*, et *concolor*, Severtzoff, Turk. Jevotnie, pp. 66, 128, 130 (1873).
573. Add *Sylvia (Calamoherpe) fruticola*, Naum. Vög. Deutschl. xiii. p. 453 (1853), and *Salicaria macronyx*, Severtzoff, Turk. Jevotnie, pp. 66, 128 (1873).
579. Add *Acrocephalus lacustris*, Naum. Naturg. Land- u. Wasser-Vög. Nachtr. iv. p. 201 (1811), *Hydrocopsichus turdoides* (Mey.), Kaup, Natürl. Syst. p. 121 (1829), *Sylvia turdina*, Gloger, Handb. Naturg. p. 312 (1842), *Calamoherpe turdina* (Glog.), Schlegel, Vög. Nederl. p. 142 (1854), *Salicaria arundinacea* (Linn.), Harting, Handb. Brit. B. p. 14 (1872), and *Acrocephalus fulvolateralis*, Sharpe in Layard's B. of S. Afr. p. 289 (1877).
585. Add *Calamodyta stentorea* (Ehr.), Gray, Hand-l. i. p. 207, no. 2930 (1869).
591. Add *Calamoherpe cariceti* (Naum.), Boie, Isis, 1822, p. 552, and *Calamoherpe limicola* et *striata*, C. L. Brehm, Vög. Deutschl. pp. 451, 452 (1831).
597. Add *Sylvia tritici* et *subphragmitis*, L. Brehm, Naumannia, 1855, p. 284.
- 600, line 16. Since writing this, Mr. Seebohm has found this Warbler breeding as far east as the Yennesei, in Siberia.
605. Add *Acrocephalus melanopogon* (Temm.), Irby, Orn. Str. Gibr. p. 223 (1875), and *Calamodus melanopogon* (Temm.), Blanf. E. Pers. ii. p. 198 (1876).
606. I have subsequently examined two specimens of this Warbler from Corsica, obtained there by Mr. C. Bygrave Wharton.
611. Add *Locustella sibilans*, Gould, B. of Eur., letterpress to pl. 102 (1837), *Calamodyta locustella* (Lath.), Gray, Hand-l. B. i. p. 210, no. 2972 (1869), *Threnetria locustella* (Lath.), Schauer, J. f. O. 1873, p. 183, and *Locustella locustella* (Lath.), Seebohm, Cat. Passerif. Brit. Mus. p. 115 (1881).
- 613, line 12. For *Locustella hendersoni* read *Locustella straminea* (Severtz.).
617. Add *Locustella macropus* et *hendersoni* (Cass.), Swinhoe, P. Z. S. 1863, pp. 93, 444. *Calamodyta hendersonii* (Cass.), Gray, Hand-l. of B. i. p. 210. no. 2976 (1869).
- 621, line 5. For (1819) read (1811). Add *Potamodus fluviatilis* (Wolf), Kaup, Natürl. Syst. p. 123 (1829).
627. Add *Calamoherpe luscinioides* (Savi), Schlegel, Vog. Nederl. p. 149 (1854), *Lusciniopsis luscinioides* (Savi), Newt. in Blas. List B. Eur. p. 11 (1862), *Pseudoluscinia luscinioides* (Savi), Shelley, B. of Egypt, p. 89 (1872), *Acrocephalus luscinioides* (Savi), Newt. in Yarr. Brit. B. i. p. 389 (1873), *Threnetria acheta*, Schauer, J. f. O. 1873, p. 183, and *Potamodus luscinioides* (Savi), Blanf. E. Pers. ii. p. 199 (1876).
633. Add *Calamoherpe certhiola* (Pall.), Boie, Isis, 1822, p. 552, and *Parnopia certhiola* (Pall.), Newt. in Blas. List Eur. B. p. 11 (1862).
639. For *Bradypterus cettii* read *Cettia cettii*. Add *Sylvia fulvescens* (Gm.), Vieill. Faun. Franç. i. p. 208 (1820), and *Bradyptetes cettii* (Marm.), Blanf. E. Pers. ii. p. 200 (1876). And expunge from synonyms *Bradypterus platyurus*, Swains., and at p. 643 the paragraph in lines 33-40 respecting this bird.

VOL. III.

- Letterpress to Vol. III., p. 6, species 179. *Carduelis elegans*, for part 60 (1877), read part 40 (1875).
- „ „ p. 6, species 180. *Chrysomitris citrinella*, for parts 63, 64 (1877), read parts 43, 44 (1875).
- Page 1, line 17. For It flight read Its flight.
49. For *Calamophilus biarmicus* read *Panurus biarmicus*.
- 79, line 7. For *Musvil-meise* read *Musvit-meise*.
- 120, lines 22 and 23. For *Parus borealis* read *Parus palustris*.
125. For Siberian Marsh-Titmouse read Lapp Titmouse. Plate 112, for Scandinavian Titmouse read Lapp Titmouse.
176. *Sitta rupicola*, Blanf., proves on examination of a larger series to be a bad species; and this name will sink into a synonym of *Sitta neumayeri*.
183. Mr. Seebohm, who has lately been working out the Nuthatches, informs me that he has, after an examination of a larger series than I had available when I wrote this article, decided to separate the Eastern or Asiatic form, to which I refer in lines 34–39, specifically from the European bird; and in this view I am now inclined to agree with him. This being the case, the Eastern form will stand as *Sitta syriaca*, Ehr., and the European bird as *Sitta neumayeri*, Michah.,—*Sitta tephronota*, Sharpe (referred to on p. 176), being a synonym of the Asiatic bird; and *Sitta syriaca* will have to be expunged from the synonyms on p. 183, but *Sitta rupicola*, Blanf., will have to be added.
- Sitta syriaca*, Ehr., is found in Palestine, Syria (whence it was first described), Turkestan, and Afghanistan.
295. *Anthus seebohmi*. Since the article on this species was published I have ascertained that it is identical with *Anthus gustavi*, Swinh., under which name it will consequently stand; and, as lately pointed out by Mr. Seebohm in his notes on the ornithology of Siberia, it has since been found to have a very wide range, having been met with on the Ob (*Finsch and Brehm*), the Yennesei (*Seebohm*), Lake Baikal (*Dybowski*), Tschuski Land, north of Kamtchatka (*Baron Meydell*), Behring Isle (*Wossnessensky*), Batchian (*Wallace*), Manilla and Celebes (*Brüggemann*), Borneo and Negros (*Mus. Brit.*). The synonymy of this species will therefore now be as follows:—
- Anthus gustavi*, Swinhoe, P. Z. S. 1863, pp. 90, 273.
- Anthus batchianensis*, G. R. Gray, Hand-l. of B. i. p. 251, no. 3642 (1869).
- Anthus seebohmi*, mihi, B. of Eur. part xlv. (1875).
375. *Lanius excubitor*. Since the article on this species was written the Grey Shrikes have been worked at most carefully by several authors; and the amount of literature added to the subject is by no means small. It is scarcely advisable here to treat fully of the question as to how many of the various forms of the Grey Shrike should be treated as species; for lately a vast number of skins of Grey Shrikes from Asia have reached England, showing that there are not a few different forms, some of which may possibly be treated as distinct species, and to treat the

subject fully would entail a long article. I trust, however, when I can get leisure to do so, to take the subject in hand again. Should the various forms be treated as good species, two more Grey Shrikes at least, *Lanius homeyeri*, Cab., and *Lanius major*, Pall., will have to be added to the European list.

Page 376, line 14. *For* Parrex *read* Parvex.

377, line 35. *For* Dubowski and Parrex *read* Dybowsky and Parvex.

380, line 35. *For* Parrex *read* Parvex.

381. Mr. Seebohm (Ibis, 1880, p. 186) does not agree with our identification of the Western bird with *Lanius lahtora*, Sykes, and treats of this Western form as *Lanius fallax*, Finsch; but I cannot see that this separation is practicable.

409, line 36. *For* Ortakeny *read* Ortakeuy.

413. Mr. J. Scully assures me that he can always separate *Lanius phœnicuroides* from *Lanius isabellinus*, even in the immature plumage, and that he obtained in Yarkand many specimens of the latter in breeding-plumage not differing in colour from winter examples; and he says (Ibis, 1881, p. 434) that in the adult dress *L. phœnicuroides* differs from *L. isabellinus* in having a differently shaped wing and tail, in the wing-speculum being larger, the lower surface white, the entire lores black, the head more rufous than the back, and the quills more black; and to this species he refers my Plate No. 152. I cannot, however, state my own convictions as to the correctness of his views until I have had time to investigate the matter again more fully.

453, line 22. *For* Sortoch *read* Sort och.

466, line 30. *For* Sicily *read* Scilly.

505, 513, and 521. *For* COTYLE *read* COTILE.

586. Since writing the article on *Passer italiae* I have examined the specimens obtained by Mr. Wharton at Ajaccio, in Corsica; and they are certainly referable to this species.

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Page 17, line 36. *For* Summerfeldt *read* Sommerfeldt.

31. *Linaria cannabina* should be *Linota cannabina*.

69. *For* *Carpodacus rubicillus* *read* *Carpodacus rubicilla*.

78, line 24. *For* Parrex *read* Parvex.

81, line 1. *For* Parrex *read* Parvex.

82, line 17. *For* Temscken *read* Tschimkent.

171, line 10. *For* Dosyanka *read* Owsianka.

227, line 39. *For* Parrex *read* Parvex.

341. *Alauda brachydactyla*, Leisler, Ann. Wetterau. Gesellsch. should be (1814) and not (1809).

383. *For* *Rhamphocoris* *read* *Rhamphocorys*.

437. Add *Coracia gracula* (Linn.), Gray, Gen. of B. ii. p. 321, and *Gracula gracula* (Linn.), Sharpe, Cat. Coleomorphæ, p. 146 (1877).

445. Add *Pyrrhocorax forsythi*, Stoliczka, Str. Feathers, 1874, p. 462.

Page 487, line 3. *For* 1843 *read* 1842.

523. Add *Colæus monedula*, Sharpe, Cat. Coleomorphæ, p. 26 (1877).
 531. Add *Corone corone*, Sharpe, Cat. Coleomorphæ, p. 36 (1877).
 543. Add *Corone cornix*, Sharpe, Cat. Coleomorphæ, p. 31 (1877).
 551. Add *Trypanocorax frugilegus* (Linn.), Expl. Sci. Alg. Ois. i. p. 113.
 559. Add *Corax brachyurus*, A. E. Brehm, Erg. einer Reise nach Habesch, p. 323 (1863),
 and *Rhinocorax affinis* (Rüpp.), Sharpe, Cat. Coleomorphæ, p. 46 (1877).
 563. Add *Corvus leptonyx*, Sharpe, Cat. Coleomorphæ, p. 19 (1877).

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- 47, line 12. *For* Mellauspæ *read* Mellanspæ.
 95, line 10. *For* Grahöfdad *read* Gråhöfdad.
 141. *For* CORACIAS GARRULA *read* CORACIAS GARRULUS.
 199, 203. *Cuculus rochii*. Professor Newton writes (Yarr. Brit. B. ed. 4, p. 406, footnote),
 “Mr. Dresser regards this bird (*C. rochi*) as specifically the same as *C. canorus*,
 which seems to be an erroneous view; and MM. A. Milne-Edwards and Grandidier
 (Ois. de Madagascar, i. p. 176, pl. 66) treat it as a variety of the Indian *C. polioce-*
phalus; but that has dark irides, while those of the Madagascar bird are said on
 good authority to be orange, though M. Grandidier asserts the contrary.”
 301. Add *Surnia funerea*, Dumeril, Zool. Anal. p. 34 (nec Linn.), *Strix uralensis*, Shaw,
 Gen. Zool. vii. p. 277 (1809, nec Pall.), and *Noctua ulula* (Linn.), Schl. Mus. P. B.
 Striges, p. 42 (1862).
 304, line 36. *For* Jarostaf *read* Jaroslaf.
 309. Add *Surnia hudsoni* (Gm.), Jameson, ed. Wils. Am. Orn. i. p. 90 (1831), and *Surnia*
ulula, Cass. Cat. Strig. Phil. Mus. p. 17 (nec Linn.).
 319. Add *Ulula tengmalmi* (Gm.), Bp. Oss. Regn. Anim. Cuv. p. 53 (1830), *Scotophilus*
tengmalmi (Gm.), Swains. Classif. of Birds, ii. p. 217 (1837), *Nyctale dasypus*
 (Bechst.), Gray, List of Gen. of B. p. 6 (1840), and *Syrnium funereum*, Heugl. Orn.
 N.O.-Afr. i. p. 123 (1869, nec Linn.).
 340, line 43. *For* lighest *read* lightest.
 349. Add *Noctua pygmæa*, Steph. in Shaw's Gen. Zool. xiii. pt. 2, p. 63 (1826), *Noctua*
arcadica, Cuv. Règ. Anim. p. 345 (1829), and *Glaucidium pygmæum et micorhyn-*
chum, Brehm, Naumannia, 1855, p. 273.
 349, line 11. *For* Dwerquil *read* Dwerguil.
 357. Add *Strix passerina*, Gmel. Syst. Nat. i. p. 296 (1788), *Athene passerina* (Gm.), Boie,
 Isis, 1822, p. 549, *Carine noctua* (Retz), Kaup, Natürl. Syst. p. 29 (1829), *Noctua*
passerina (Gm.), Cuv. Règ. Animal, i. p. 345 (1829), *Scotophilus nudipes* (Nilss.),
 Jard. Brit. B. i. p. 274, *Noctua nudipes* (Nilss.), Gould, B. of Eur. i. pl. 48 (1838),
Athene psilodactyla (Nilss.) et *indigena*, Brehm, Naumannia, 1855, p. 270, *Noctua*
veterum, Schl. Mus. Pays-Bas, Striges, p. 28 (1862), and *Noctua minor*, Degl. &
 Gerbe, Orn. Eur. i. p. 122 (1867).
 434, line 28. *For* Wiutegra *read* Wuitegra.

- Page 521. Add *Aquila crassipes*, Hodgs. in Gray's Zool. Misc. p. 81 (1844), *Aquila mogilnik*, Strickl. Orn. Syn. p. 57 (1855), and *Aquila bifasciata*, Saunders, P. Z. S. 1871, p. 37.
523. The plate published by Jaubert and Barthélemy Lapommeraye (line 41) represents a variety of *Aquila chrysaetus* and not *Aquila mogilnik*; and the latter species does not, so far as I can ascertain, occur in the south of France.
575. Add *Nisaetus bonellii* (Temm.), Jerd. B. of Ind. i. p. 67 (1862).
599. Add *Falco minutus*, Linn. Syst. Nat. i. p. 131 (1766), *Accipiter fringillarius*, Vig. Zool. Journ. i. p. 338 (1824), *Nisus peregrinus*, Brehm, Vög. Deutschl. p. 88 (1831), *Accipiter nisosimilis*, Blyth, J. A. Soc. Beng. xii. p. 311 (1843), *Accipiter subtypicus*, Hodgs. in Gray's Zool. Misc. p. 81 (1844), *Nisus major*, Jaub. Mots. Eur. Orn. p. 29 (1851), and *Nisus intercedens*, Brehm, Naumannia, 1855, p. 269.
633. Add *Falco badius*, Krüper, J. f. Orn. 1869, p. 25.

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69. Add *Dendrofalco subbuteo* (L.), Gray, List of Gen. of B. p. 3 (1840), *Dendrofalco hirundinum et arboreus*, Brehm, Naumannia, 1855, p. 269, and *Hypotriorchis cuvieri*, Gray, Hand-l. of B. i. p. 20 (1869, nec Smith).
- Plate 38. For *Falco regulus* read *Falco æsalon*.
- Page 93. Add *Falco rufus*, Scop. Del. Faun. & Flor. Insubr. ii. p. 36, pl. xix (1786), *Falco erythrorurus*, Raf. Caratt. N. G. Av. p. 5 (1810), *Falco rubripes*, Less. Traité, p. 93 (1831), and *Erythropus pallidus et minor*, Brehm, Naumannia, 1855, p. 269.
103. Add *Hypotriorchis arcadicus*, Gray, Gen. of B. i. p. 20 (1844), *Falco plumbeus*, Brehm, Naumannia, 1856, p. 236, and *Falco gracilis*, A. et L. Brehm, Naumannia, 1856, p. 232.
107. To range, add N.E. Africa, where Brehm obtained it near Cairo in September 1851.
113. Add *Falco alaudarius*, Gmel. Syst. Nat. i. p. 279 (1788), *Falco architinnunculus*, C. L. Brehm, Vög. Deutschl. p. 70 (1831), and *Cerchneis tæniura, intercedens, accedens, fasciata et guttata*, Brehm, Naumannia, 1855, p. 269.
- 120, line 30. For Azores read Cape-Verd Islands.
- 125, line 3, should be *Falco cenchrus*, Naumann, Vög. Deutschl. i. p. 318 (1818); and line 4, *Falco naumanni*, Fleischer in Sylvan, 1818, p. 175. Add *Cerchneis paradoxa, ruficeps et ruficauda*, Brehm, Naumannia, 1855, p. 269, and *Cerchneis naumanni* (Fleisch.), Sharpe, Cat. Accip. p. 435 (1874).
- 182, line 3. For adult female read young female.
- 297, line 5. For p. 41 read p. 48.
- 319, line 1. For *Platea leucorodia* read *Platalea leucorodia*.
335. Add *Tantalus falcinellus*, Bechst. Orn. Taschenb. p. 272 (1803).
469. For *Anas boschas* read *Anas boscas*.
- 483, and Pl. 423. The male and female being so much alike, only one figure is given on the Plate.
- 511, line 9. For Ortakeny read Ortakeuy.

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- Plate 483. fig. 1 represents the spring dress of the male; fig. 2, that of the female in summer; and fig. 3, that of the male in summer.
- Page 283, line 3, *for* p. 126 *read* p. 108; line 15, *for Phasaridion* *read Phalaridion*.
- 291, line 7. *Read Crex pratensis*, Bechst. Orn. Taschenb. p. 337 (1803).
- 337, line 14. Pl. lxii. in Faun. Lap. does not represent *Grus communis*, but a distinct species, *Grus schlegelii*, Blyth; but the description in the letterpress of the same work applies to *Grus communis*.
- 343, line 26. The *Grus cinerea longirostris*, Temm. & Schlegel, from Japan, appears to be a bird distinct from *G. communis*, and is *Grus schlegelii*, Blyth. Cf. Blyth's 'Monograph of the Cranes,' p. 78.
351. In Bechstein's 2nd ed. of his Gemeinn. Naturg. der Vög. Deutschlands, vol. iii. p. 103 (1809), he calls the Crane *Grus cinerea*; but of course this name cannot stand, as he called it *G. communis* in 1793.
- 395, line 5. *For* (1835) *read* (1833-34).
- 396, line 41. *For Otis* *read Otis*.
- 402, line 13. *Read Young* resembles the adult bird, but is *darker &c.*
- 436, line 21. *For* right-hand figures *read* left-hand figures.
- Plate 515. In some of the impressions of this Plate the hind claw has been omitted in the figure of *Squatarola helvetica*.
- Page 451. Mr. Seebohm found the Eastern Golden Plover breeding in Eastern Siberia, and gives (Ibis, 1879, pp. 153, 154) some most interesting notes on its nidification and habits.
587. Add *Himantopus melanopterus*, Meyer, Wetter. Ann. iii. p. 177 (1812).
615. *Scolopax rusticola* should stand as *Scolopax rusticola*.
- Plate 542. *For gallinaria* *read caelestis*.

VOL. VIII.

- Plates to Vol. VIII. p. viii, no. 631, *for Podiceps auratus* *read Podiceps auritus*.
- Page 16, line 28. *For minutella* *read minutilla*.
- 18, line 28. *For Ægialite* *read Ægialites*.
- 29, line 4. *For* 1811 *read* 1812.
- 45, line 4. *For* ii. p. 75 (1811) *read* i. p. 64 (1812).
51. Expunge from the synonyms *Chorlito pestorejo pardo*, Azara, and *Tringa fuscicollis*, Bonn & Vieill., and put a query after *Tringa campestris*, Licht.
59. Add *Scolopax subarquata*, Güld. Nov. Comm. Acad. Petrop. xix. p. 471 (1774).
119. *Actiturus longicaudus* should stand as *Bartramia longicauda* (cf. p. 117).
151. To the synonymy of *Totanus stagnatilis* add *Glottis stagnatilis* (Bechst.), Koch, Baier. Zool. i. p. 306 (1816), and *Ilyornis*, Kaup (*Tot. stagnatilis*, Bechst.), Natürl. Syst. p. 156 (1829).
- 203, line 9. *For* (1811-1815) *read* (1813).
- 211, line 10. *For* (1811-1815) *read* (1813). Add *Gambetta limosa*, Koch, Baier. Zool. p. 308 (1816).

- Page 237. Add *Numenius australis*, L. Brehm, Naumannia, 1855, p. 291.
- 240, lines 8 & 9. Expunge all notes respecting its nidification in Malta (cf. p. 231).
243. For *Numenius arquatus* read *Numenius arquata*.
255. Add *Sterna pikei*, Lawr. Ann. Lyc. N. Y. vi. p. 3 (1853), "*Sterna senegalensis*, Sw.," Schlegel, Mus. Pays-Bas, *Sternæ*, p. 16 (1863), and *Sterna portlandica*, Ridg. Am. Nat. viii. p. 433 (1874).
263. Add *Larus bicolor*, *Larus sterna* et *Larus columbinus*, Scop. Ann. I. Hist. Nat. p. 82 (1769).
337. Add "*Xema sabini*, Leach," J. Ross, App. Ross's Voyage, p. 57 (1819), 4to ed.
- 369, line 7. For *ichthyaetus* read *ichthyaetum*.
380. The second Plate is omitted in the list of plates, and will stand as 599 a.
381. Add *Glaucus canus* (L.) and "*Glaucus lachrymosus* (Licht.)," Bruch, J. f. Orn. 1853, p. 102, *Gavina kamtschatchensis*, Bp. Naumannia, 1854, p. 212, *Gavina heinei* (Hom.) and *Gavina canus* (L.), Bruch, J. f. O. 1855, pp. 283, 284, *Larus delawar-ensis*, Coues, Proc. Ac. N. Sc. Phil. 1861, p. 246, and *Larus audouini*, Tristr. Ibis, 1868, p. 330, nec Payr.
- Plate 605. Owing to an error on the part of the colourists, the legs of the Glaucous Gull have been coloured yellow instead of light flesh.
- Page 439. Add *Larus chalconotus*, Licht. Nomencl. Av. p. 99 (1854), *Laroides glacialis*, Bruch, J. f. O. 1855, p. 22, and *Leucus chalconotus* et *arcticus*, Bp. Consp. Gen. Av. ii. p. 216 (1857).
463. Add *Coprotheres pomarinus* (Temm.), Reich. Nat. Syst. Vög. p. v. (1852), and *Lestris pomatorhina* (Temm.), Heugl. Ibis, 1872, p. 65.
491. For *Thalassidroma pelagica* read *Procellaria pelagica*.
497. For *Thalassidroma leucorrhœa* read *Procellaria leucorrhœa*.
- 570, line 38. For Harvie read Harvie-Brown.

I N D E X.

[The antique figures designate the first page of the article on the respective species or genus.]

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HENRY EELES DRESSER
1838-1915

Dresser was born on May 9, 1838, at Thirsk, in Yorkshire, where his grandfather had founded the Thirsk Bank, and died at Cannes on November 28, 1915. In 1870 he started business in London in the metal trade, but he continued to travel extensively throughout the whole of his life, and from the time when he was at school in Germany he began to collect eggs and bird-skins systematically. He belonged to the old order of systematic ornithologists who did not believe in subspecies or trinomials. All he wrote, however, was marked by a thorough and a rigid accuracy of description and attention to detail, and he took special pains to get his illustrations executed and reproduced in the most perfect manner possible, so that his monographs and the "Birds of Europe" were as monuments of ornithological literature. The works here represented comprise the Coraciidae, or family of the Rollers, 1893; the Meropidae, or family of the Bee-Eaters, 1884-86; and Vol. II of the "Birds of Europe", 1871-90.

