



2 vols.

L7127

1751



Library  
of the  
University of Toronto

LARGE SECTION.

33 meters, half crown bands



COLOURED ILLUSTRATIONS  
OF THE  
EGGS OF BRITISH BIRDS.

---

VOL. I.

“Some to the holly hedge  
Nestling repair, and to the thicket some:  
Some to the rude protection of the thorn  
Commit their feeble offspring: the cleft tree  
Offers its kind concealment to a few,  
Their food its insects and its moss their nests.  
Others apart, far in the grassy dale  
Or rough'ning waste, their humble texture weave,  
But most in woodland solitudes delight;  
In unfrequented glooms or shaggy banks  
Steep and divided by a babbling brook.”

COLOURED ILLUSTRATIONS  
OF THE  
EGGS OF BRITISH BIRDS,

ACCOMPANIED WITH DESCRIPTIONS

OF THE  
EGGS, NESTS, ETC.

BY  
WILLIAM C. HEWITSON.

IN TWO VOLUMES.

VOL. I.

LONDON:  
JOHN VAN VOORST, PATERNOSTER ROW.

M.DCCC.XLVI.

LONDON:  
Printed by S. & J. BENTLEY, WILSON, and FLEY,  
Bangor House, Shoe Lane.



## INTRODUCTION.

---

AN anxious wish to add a portion, however humble, towards the illustration of those glorious works from which I have myself derived such abundant pleasure, together with a desire to impart to others a portion of such pleasure, led to the production of the present work; and however deficient in its accomplishment, should it be the means of turning the attention of any to the pursuit of Natural History, my object will have been fully gained; and I shall have the happiness of knowing, that I have been partly the means of adding many a bright hour to their lives; feeling, as I do, firmly convinced, that next to those pleasures to be derived from the discharge of more important duties, there is no pursuit so calculated to impart the purest sensations of delight, and at the same time to elevate the mind; there is not a pursuit which diffuses the same serenity over the feelings, which soothes us in the hour of trouble, and which, when other pleasures flit away, continues to afford such undiminished enjoyment to the last. For my own part, that taste for Natural History which I have enjoyed from the earliest recollection, and which I regard as one of the choicest gifts of Providence, has proved to me an inestimable blessing. To its influence I owe all the brighter hours of my life; whether, in the full enjoyment of health and happiness, I have trod the green fields, in the joyous spring, delighted with the early flowers and the first song of the Sky Lark; or have wandered as a school-boy through the woods, “to

pull the flower so gay ;” or in the autumn of the year have traversed the heathery mountains, when purpled o’er with blossoms, to watch the flight of the moor bird, and listen to the busy hum of a thousand bees ; that taste has brightened every beautiful object in nature, and added a zest to every pleasure.

It is with a satisfaction unalloyed by any unpleasant feelings, that the lover of nature looks back upon and retraces in his memory the many happy hours which he has spent in the pursuit of his favourite object. Never shall I forget the first dawning of a love for nature upon my mind, as its various beautiful objects came crowding upon my notice—“wonders yet to me ;” nor that strange feeling of delight which I have experienced from the capture of some long-chased butterfly, or the discovery of the nest of some then unknown bird.

However unimportant in itself the branch of Natural History which I have attempted to elucidate, the beautiful and varied objects which compose it, are amongst the first to excite the imagination, and call forth in boyhood those feelings, that love for nature, which are inherent in us all ; and however the cares or the pleasures of after life may have erased those earlier feelings, there are few who have not one day derived pleasurable emotions from their contemplation, and who do not remember those joyous times when, at the first breaking loose from school, they have hastened to the wood and the hedge-row, in search of their painted prize.

Few can have failed to notice that wonderful and all-absorbing feeling of anxiety, that utter disregard of self, which, during the breeding season, produces so remarkable a change in the nature of many of our birds : converting that wariness for which they are at other times remarkable, into the most heedless disregard of danger.

Numerous anecdotes are related of the devotedness of the

Partridge, and other species of birds, in the protection of their young.

The Mistletoe Thrush, usually so shy, seeks the immediate neighbourhood of our houses during the season of incubation, rearing its young ones within sight of our windows, and spreading terror amongst the rest of the feathered race, by its pugnacious persecution of all intruders.

I have elsewhere noticed the assiduity with which the Eider Duck covers its eggs.

Many of the smaller birds will allow themselves to be taken in the hand, rather than leave their nests. Some have been even known, upon having their young ones taken from them, to follow them into captivity.

The obstinate perseverance with which the Blue Titmouse continues to rebuild its nest, although it has been repeatedly destroyed, is very remarkable; and still more so the pertinacity with which it continues to sit its eggs, in defiance of all intrusion; and to retain possession of the hole in which they were placed, sometimes for days after they have been taken from it.

Notwithstanding the numerous accounts we hear of the fecundity of some of our smaller birds, I am much inclined to think that their powers of incubation have been overrated, and that the usual number of eggs only, which it is allotted them to lay, are sufficiently developed to be brought to maturity at one time. Those birds, however, which under ordinary circumstances would only breed once a year, have nevertheless, if deprived of their eggs, the power of producing, a short time afterwards, a second and even a third set; but usually diminished in their numbers, as well as in their size.

That the colouring of birds' eggs is an animal matter, and dependent upon the health of the bird, there can be little doubt. The day previous to their being produced, and after

the shell has become hard, they are, in those birds which I have examined, pure white; a large proportion of the colour is also easily rubbed off, for some time after they have been laid. Thus we find in their eggs the same want of colour, which is also occasionally observable in the feathers of white varieties of birds. Fear, or any thing which may affect the animal functions, exerts its influence upon the colour also. The eggs of birds which I have captured on their nests, during the time that they were laying, and kept in close confinement, have thus been deprived of much of their colour.

That the varied and beautiful hues which adorn the eggs of birds, are given them by the God of nature, as a protection from discovery and destruction, by resembling the various surfaces upon which they are deposited, (as stated by M. Gloger, a German naturalist,) when taken as a general rule, I am by no means ready to admit. On the other hand, I am prepared to show, that such precautions would be for the most part unnecessary and superfluous.

By far the most numerous class of birds are those which build in trees or bushes, and at an elevation from the ground; and the nest—which then forms the object of search and detection—being once discovered, further precaution to conceal the eggs would be of no avail; and on this account we find such an instinctive anxiety amongst the feathered race to conceal and protect the homes of their future offspring. I could quote a number of instances, any of which are sufficient to excite our wonder and admiration. Who has ever discovered the nest of the Common Wren, concealed and buried as it is amongst the same material of which it is itself constructed, without a feeling of pleasure and surprise? I have frequently seen it let into the hollow of some moss-clad stump, or so nicely woven into the side of a clover stack, when, had it not been for the small round hole of entrance, discovery would have been perfectly evaded.

The nest of the Chaffinch is little less worthy of remark ; built upon the branch of some tree clothed with lichens, it is covered with the same material. Those birds which, from the large size of their nests, are prevented from thus concealing them, have recourse to other means of protection. The Hawk, the Crow, and the Magpie, place theirs in places difficult of access ; the nest of the latter being defended besides by a roof of thorns, which is not easily penetrated.

That there are several instances in which the eggs of birds are admirably adapted to, and closely resemble in colour, the ground upon which they are deposited, I have frequently found, much to my annoyance, when in search of them ; and these are just the instances where such protection is most necessary, and where contrasting colours would lead to their detection ; such is the case amongst those birds which making little or no nest, deposit their eggs, for the most part, upon the bare ground, or the shingle of the sea beach, and leave them uncovered on the least alarm. Of these are the Ring Dotterel, Oyster Catcher, the Sandpipers, Peewit, and the Terns, especially the Lesser. Amongst the other ground-builders, the safety of the eggs consists in the careful and constant assiduity with which they are covered by the female ; and more so in the adaptation of the bird's feathers than its eggs, to the colour of the surrounding surface ; as the dull and very similar colouring of the females of nearly all the Duck tribe, of the hen Pheasant, and the Grey Hen, (*Tetrao tetrix*,)—so strongly as they are contrasted too with the brighter colours of their mates, which do not assist in incubation,—will illustrate most admirably. Were I to mention those birds, the eggs of which do not bear any resemblance to the surface on which they are deposited, I should have to enumerate much the greater portion of our British Birds. Who will say that there is any resemblance whatever in colour, between the clear blue eggs of the Thrush, and the

mud-lined interior of its nest? Neither do the bright blue eggs of the Hedge Sparrow bear much more resemblance to the nest. What likeness do the eggs of the Swans, the Geese, the Harriers, and the numerous species of Ducks, (all white, or nearly so) bear to the ground upon which they are placed? and why, if their colours only are intended for their concealment, are eggs so entirely different in that respect, placed in situations perfectly alike?

It may be asked, for what purpose then are these beautiful colours lavished so abundantly? For the same purpose for which they adorn the plumes of the humming-bird, or the wing of the resplendent butterfly—to gladden our eyes, “To minister delight to man, to beautify the earth.” And thus it is that the eggs of nearly all those birds (the Owl, Kingfisher, Bee-eater, Roller, Nuthatch, and the Woodpeckers,) which conceal them in holes, are white, because in such situations colour would be displayed to no purpose.

The number of eggs laid by various tribes of birds, as well as by the different genera of the same family, vary much. The more typical species of these are, however, for the most part nearly alike in this respect. In every instance we shall find the same beneficent influence acting for our welfare; increasing rapidly those species which are of the greatest use to us, and bestowing upon those intended for our more immediate benefit, a most wonderful power of ovo-production; and at the same time curtailing in their numbers those species which, in their greater increase, would soon become injurious to us. Most of the Rases, which, as game, form so agreeable an addition to our table, as well as the Duck tribe, lay numerous eggs. Some of the Warblers and the various species of Titmice, which render us such essential service in the destruction of the numerous insects which would otherwise become a nuisance, are unusually prolific.

In their relative sizes, the eggs of birds differ in a remark-

able degree from each other, as I have shown, when describing those of the Guillemot; and this will be seen by comparing those of a few species. The Guillemot and the Raven are themselves of about equal size; their eggs vary as ten to one. The Snipe and the Blackbird differ but slightly in weight; their eggs remarkably. The egg of the Curlew is six or eight times as large as that of the Rook; the birds are of about the same size. The eggs of the Guillemot are as big as those of an Eagle; whilst those of the Snipe equal in size the eggs of the Partridge and the Pigeon. The reason of this great disparity in size is, however, obvious: the eggs of all those birds which quit the nest soon after they are hatched, and which are consequently more fully developed at their birth, are very large, and yet so admirably formed to occupy the least possible space, that the Snipe has no more difficulty in covering its eggs, though apparently so disproportionate, than the Thrush or the Blackbird.

As I have elsewhere remarked, much useful and highly interesting information might be gained towards the classification of birds, by paying some attention to their eggs; and it is very gratifying to find, in thus regarding them, that, with the exception of a few instances, were we to take the eggs of our British birds as our only guide, we should arrive at the best and most approved arrangement of the different genera. All those new genera which have been lately adopted, are clearly indicated in the difference of their eggs, and in none more than in those of the Snow Bunting and the Bearded Titmouse; the former of which was associated with the genus *Emberiza*, the latter with that of *Parus*; the very great similarity which the eggs of each of these genera (*Emberiza* and *Parus*) bear to each other, at once pointing out the intruders. I would not, however, have any one place too implicit reliance on the character of their eggs, for the arrangement of the birds. There are puzzling instances in

which, by so doing, we should be led into error, and be tempted to place apart from each other the eggs of the Pied and Spotted Flycatchers, the Common and Tythis Redstarts, and to separate those of the Common and Mistletoe Thrush from the rest of the genus, the Swallow from the Martin and the Swift, the Little Bittern from the more common species, and the Woodcock from the Snipe; and placing too much reliance upon those minute differences which serve so beautifully to connect and represent neighbouring genera, we should be led into a similar mistake with regard to the eggs of the Pied Wagtail, the Grasshopper Warbler, the Wood Wren, and the Wheatear.

The generic characters of eggs are in some cases as distinctly marked in contour and in colour as are the birds themselves. Any one would immediately recognize the close affinity which those of the different species of Crows bear to each other, as also those of the Owls, the Ducks, the Divers, the Buntings, the Titmice, the Sea Gulls, and the Terns, greatly as the latter differ individually. In shape, the eggs of the Grebes are very peculiar, as are those of the more typical waders. This affinity is not confined to genera only, but may be traced, more or less, in most of the families, and is very remarkable throughout the Scolopacidæ, the eggs of which are much pointed at the smaller end, and almost invariably four in number.

There is too, in many genera, a beautiful analogical resemblance with others nearly allied to them. The Eagles and Hawk tribe (nearly all of which breed aloft,) approach by the genus *Circus*, which breeds upon the ground and lays eggs which are white or nearly so, that section of the Owls which is the most Hawk-like, the species of which also, departing from the habits of the rest of their family, breed upon the ground. The eggs of the following genera, *Corvus*, *Fregilus*, *Pica*, and *Garrulus*, are all closely allied, as are those of the Roller, Merops, and Alcedo.



Eggs are subject to much variety, and are not without those apparent discrepancies which beset the study of other branches of Natural History, and which are only to be reconciled by oft-repeated observation, and by combining with their study a knowledge of the nests in which they are found. And thus, as regards the different species of a genus: although the eggs of some of the Thrushes usually bear but slight resemblance to each other in colour, we shall find upon a closer acquaintance with them, that there are other connecting links. The nests of all the species are much alike, each being strongly cemented with clay; and much as the eggs of the Common Thrush and the Blackbird appear to differ at first sight, they nevertheless run imperceptibly into each other, in some of their varieties. I have seen eggs of both species, of a clear spotless blue. My friend Mr. Henry Doubleday, one year found several nests of the Blackbird, at Epping, in one locality, the eggs of which were all of this description; a variety perpetuated, probably, through the several individuals of the same family. No one who has seen the nests of the Swallow and the House Martin, (resembling each other as much as they differ from those of all other genera,) will need to be told that they are closely allied, much as the eggs differ in colour.

With regard to birds of the same species, although the eggs of most of them are subject to more or less variety, some are constant, or nearly so, in their colouring, whilst others display an almost unceasing variety. Amongst the former, are those chiefly of one colour, to which may be added a few others, which seldom vary much. These are the Kite, Golden Oriole, Lesser Whitethroat, the various species of Titmice, Reed Bunting, Goldfinch, and Black Grouse. The eggs, on the other hand, which are subject to the greatest variety, are those of the Water Birds, the Gulls, Terns, Guillemots, &c.; and of the land birds, the Red Grouse, the Rook and Carrion

Crow, Yellow Bunting, and House Sparrow, and above all, the Tree Pipit. There is, notwithstanding, in all these a character, by which a little experience will for the most part enable us to determine the species; and though we might not readily believe the varieties of the eggs of the Tree Pipit to belong to the same species, we should have no difficulty in referring them to the right genus.

In places where those materials are to be met with which instinct has taught individuals of the same species of bird to make use of in the construction of their nests, we shall usually find the same adopted. I know of no other bird which seems so much to consult its own taste in this respect, as the Common Wren. The materials of its nest are as different as the situations in which it is placed. It may be found built entirely of clover, even in places where moss is abundant; its interior is also formed according to the taste of the owner, and is as often found without any lining at all, as it is thickly lined with feathers.

There are many instances in which circumstances have led to a deviation from the usual habit. Those Eagles and Hooded Crows inhabiting the Shetland Islands, which would build their nests of sticks, were such materials to be had, are there compelled to substitute the larger species of sea-weed. A Carrion Crow which resorted to the Fern Islands to breed, for the same reason (the absence of sticks), made its nest in a hole in the ground, surrounding it, to give it sufficient depth, with a wall of sods.

There are a few deviations from the usual instinct, which, not being influenced by local causes, are very remarkable; and in no instance which has come under my notice, more so than in the nest of a Blackbird, sent me by my friend, the Rev. W. D. Fox, which is lined with black hair, instead of the usual material, dry grass; the same circumstance having occurred several years in succession.

With regard to the situation of their nests, birds seem to be left much more to the influence of their own choice, constructing them with surprising skill, in places apparently most unsuitable. Some species, leaving their natural mode of life, and their own wild haunts, have adapted their habits to our own, and being to a certain extent domesticated, have become our confiding friends and delightful companions. The Swift, the Martin, and the Swallow, once the inhabitants of the inland rocks and lonely sea cliffs of our coast, have now become the voluntary inmates of our dwellings, cheering us with their cheerful notes and elegant evolutions. The shy Hawk, the wily Raven, and the midnight Owl, leaving their native woods, have built their nests in the towers and steeples of our towns and cities. The Magpies, too, which with us are so suspicious of wrong, build their nests under the eaves of the Norwegian cottages. Numerous instances might be given, in which birds have chosen the most strange and singular situations for their nests, adapting them as though reason had been their guide. The most remarkable on record is that of Rooks, which, for ten successive years, built their nest upon the vane at the top of the Newcastle Exchange, revolving with every change of wind. The House Sparrow, the nest of which, when built in trees, is large and carefully arched over, dispenses with the labour of constructing its own roof, when it places it under the eaves of our dwellings.

---

I regret having to close the present work, and thus to put a conclusion to a correspondence which has given me so much pleasure. In doing so, I wish to express my best thanks to all those subscribers who have favoured me with their assistance, for the kind feeling which they evinced towards me, and more especially to those who have so greatly contributed to the following pages:—to William Yarrell, J. D. Hoy,

John Hancock, Henry Doubleday, J. P. Wilmot, John Wolley, J. D. Salmon, P. J. Selby, J. H. Tuke, Esqrs., and the Rev. W. D. Fox. To some of those subscribers, whose friendship I greatly value, I shall ever look with pleasure on these illustrations, as having formed the medium of introduction.

I ought not to omit to acknowledge with what care and accuracy Mr. J. Standish has performed his part—the colouring of this work.

---

It gives me great pleasure to correct an error into which I have fallen with regard to the egg of the Egyptian Vulture. Of the authenticity of the one now drawn I have not the slightest doubt.

During the progress of this work, I have seen eggs of the Wheatear which are slightly dotted with brown, thus resembling more closely than common those of the Whinchat and Stonechat.

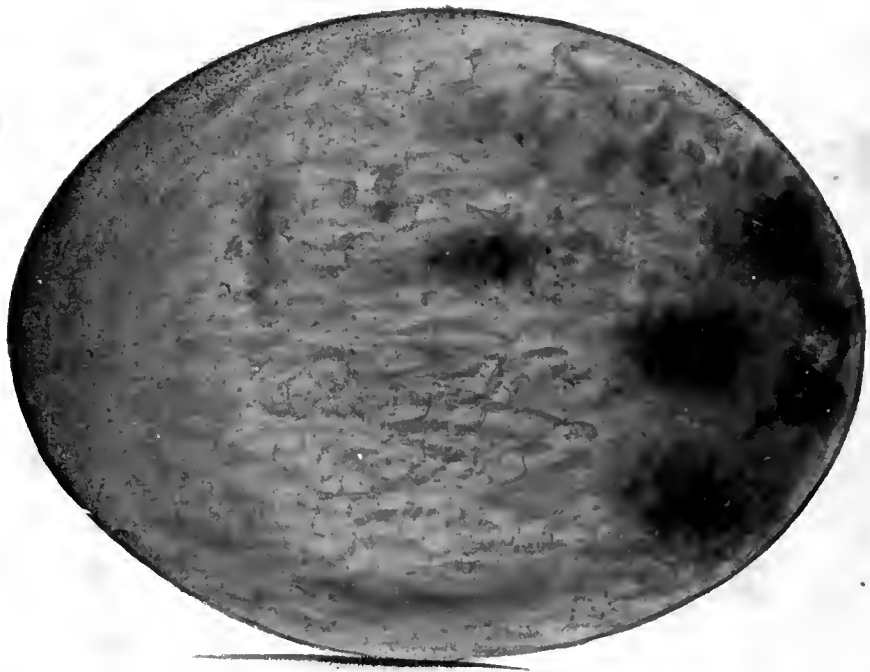
Also eggs of the Golden Crested Wren, of a pure white, much rounder than usual, and spotted with red like eggs of the Cole Titmouse.

The figure which I have drawn at Plate LXV. as the egg of the Virginian Quail, should be without the black marks, but is in every other respect quite correct: it was taken from an unknown egg which had been inadvertently mixed with eggs of this species.

Mr. Wolley has sent me several eggs of the Long-legged Plover, purchased by him at Tangier, which agree with my figure, except that they are more pointed at the smaller end, and more like eggs of the other Scolopacidæ.



I.



# EGGS OF BRITISH BIRDS.

---

RAPTORES.

VULTURIDÆ.

## EGYPTIAN VULTURE.

VULTUR PERCNOPTERUS.

PLATE I.

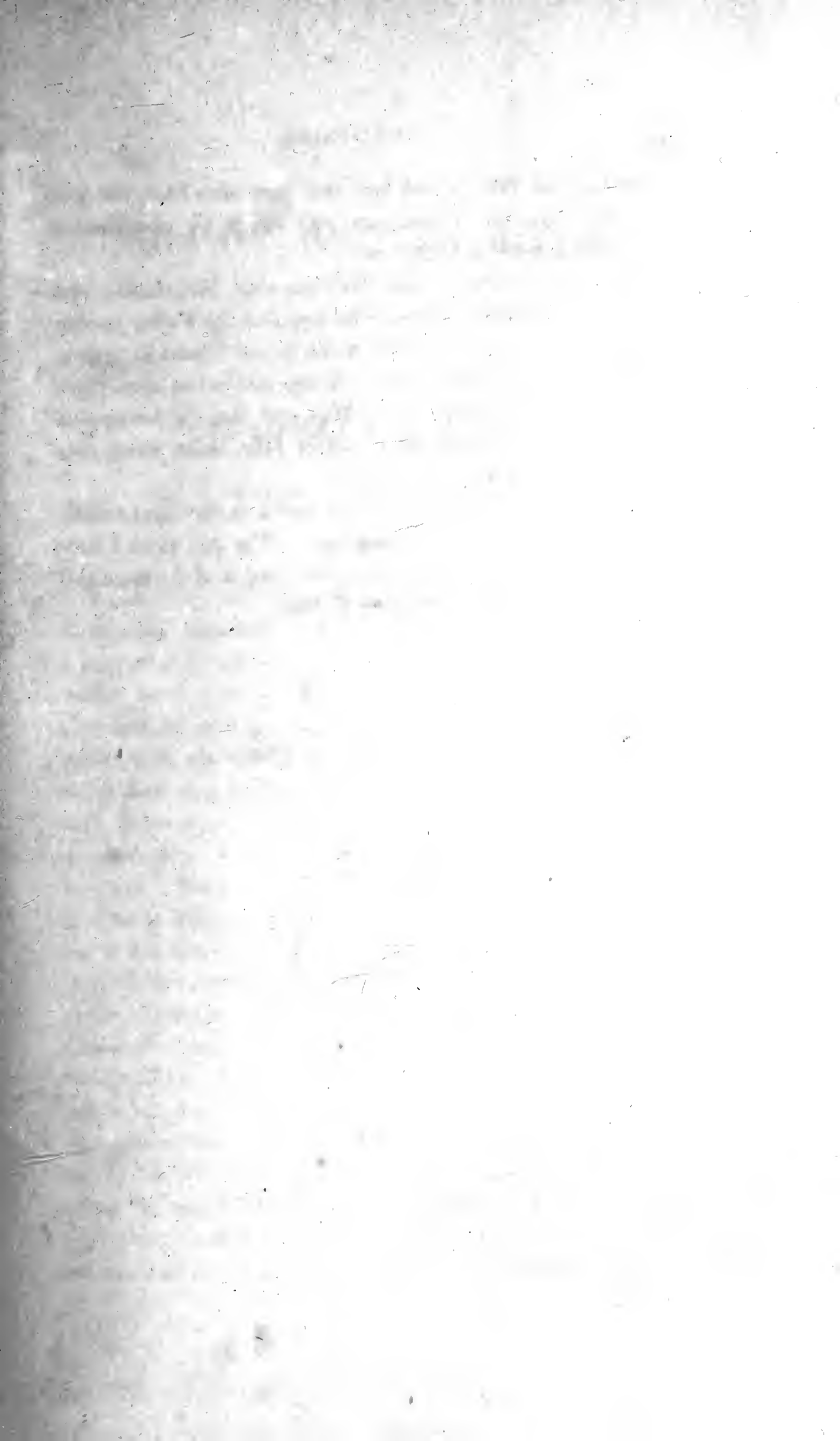
VERY little information is to be had in the works of the Continental naturalists with regard to the habits and propagation of this species. Temminck says that they are numerous on the Spanish side of the Pyrenees, but nowhere so abundant as in Africa, and that they breed in those precipices which are the most difficult of access. Le Vaillant states that they lay three or four eggs; whilst our countryman Bruce says that they build their nests in the most deserted parts of the country—speaking of Africa—and lay but two. Mons. A. Moquin Tandon, of the Jardin des Plantes at Toulouse, who has kindly sent me a drawing of an egg of this species, which is in his own collection, tells me that in 1842 two nests of the *Vultur percnopterus* were discovered in the vicinity of Arles on the Pyrenees each of which contained two eggs; and that the following summer a third nest was found on the Pic de St. Loup, near Montpellier, which had in it but one egg. The drawing of Mons. Moquin Tandon agrees exactly in size with one of two eggs kindly sent me by Mr. Wolley of Trinity College, Cambridge, and in colour is very similar to that now figured. Mr. Wolley's eggs were obtained by him on a visit to Tangier during the last summer from a Frenchman of the name of Favier, who

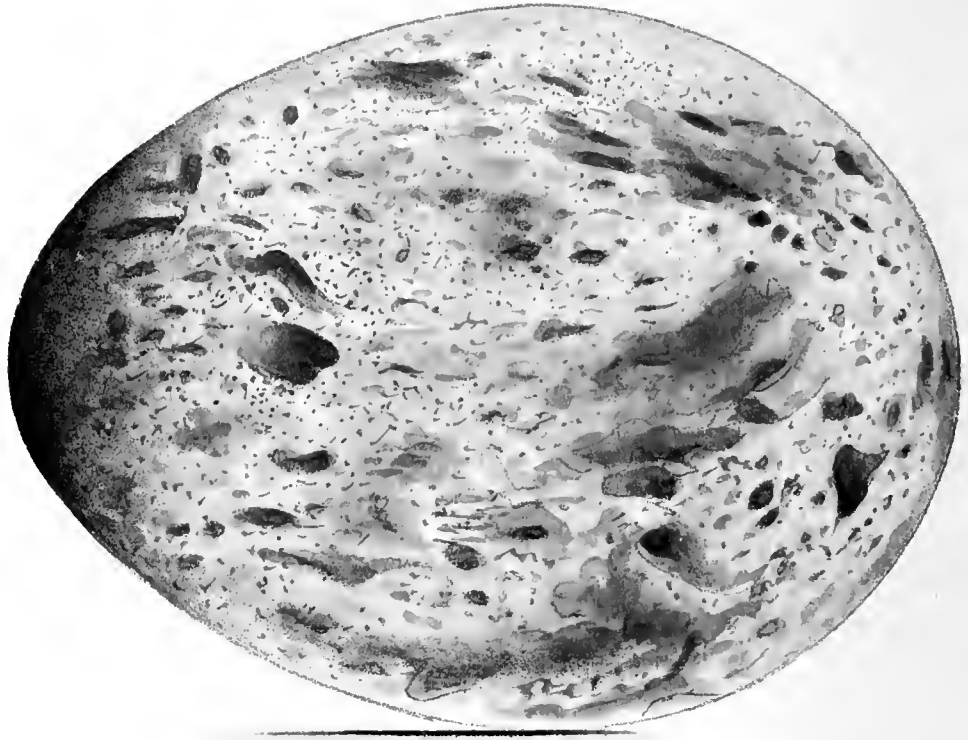
assured him that the old bird had been shot from the nest in which was one of them, and who had in his possession at the time a nestling young one.

Mr. Wolley has added the following information, also supplied by Mons. Favier, who says that the *Vultur percnopterus*, which makes its nest at the end of March in perpendicular and inaccessible precipices, lays one or two eggs, which are hatched about the end of May, and that the young ones remain in the nest till the month of July, before which they are incapable of flight.

Both of Mr. Wolley's eggs are widest in the exact centre, from which they taper to each end. The one which I have figured is a little larger than the other, and is of the same rich colour as eggs of the Peregrine Falcon.







*RAPTORES.**FALCONIDÆ.*

## GOLDEN EAGLE.

AQUILA CHRYSÆTOS.

PLATE II. FIG. I.

It is now an uncommon occurrence to hear of the appearance of an eagle south of the border. In the lowlands of Scotland they are becoming rare, and if you would see one in its native freedom, you must penetrate into the less frequented districts.

During an extensive tour through the isles and highlands of Scotland, twice only had I the pleasure of seeing one at large, and though I traversed the whole of the Shetland Islands, and spent six weeks amongst them, I could only hear of three or four of their eyries.

In Norway, where they enjoy an uninterrupted sway, and can choose their nesting places undisturbed amongst those magnificent rocks which bound its glorious Fiords, we saw them often perched upon the centre of some lonely island, where they would remain seated motionless for hours together. At midnight, whilst tranquilly gliding over those calm inland seas, we have sometimes disturbed one when thus seated.

Its motion is then slow, heavy, and like a Heron, till rising high in air it assumes its own majestic flight.

Upon the pinnacle of a steep and rocky island, to which we had climbed to watch the midnight sun, we found that we had seated ourselves upon the oft frequented resting-place of

the Golden Eagle. The rock was strewed with feathers and the remains of many a meal.

Birds of the same species, with one or two exceptions, of which the Common Wren is the most remarkable, will almost invariably, when under favourable circumstances, form their nests of the same materials.

In Shetland, where they would have some difficulty to find a stick, the eagles have very cleverly constructed their nests of those long rope-like pieces of sea-weed, which, having their roots at the bottom of the sea, rise like mimic forests to its surface, and spread out their long riband leaves. These in their pliability are so admirably adapted for the purpose, that I much doubt whether a Shetland eagle, with the choice of both, would ever have recourse to the more commonly used material.

Foula, one of the Shetland Islands, the western boundary of which is formed by one of the grandest promontories in Britain, is the favourite resort of the Golden Eagle.

It begins to breed in March, or early in April, and will return to the same eyrie for many successive years. It makes a nest of great size, composed of sticks (in Shetland of sea-weed), lined with softer materials, roots, straw, dry grass, and wool. The eggs are usually confined to two, though sometimes three in number. In a nest in the cliffs of Foula were two young ones only, whilst one mentioned by Mr. Salmon, in his bird-nesting account of Orkney, contained three.

The egg from which my former figure in the British Oology was drawn, was kindly sent me for that purpose by P. J. Selby, Esq., of Twizell House. It was the first egg laid by a bird which he had had many years in confinement. I was at first unwilling to figure it, knowing that eggs produced under such circumstances very frequently differ greatly from those laid in a state of nature.

Upon comparing it with an egg in the British Museum,

and also with the drawing of one sent me by Mr. Blackwall, of Manchester, it was found to be similar in colouring, though different in size.

I have since ascertained that the egg of the Golden Eagle is less than that of the other species, and that Mr. Selby's egg is unnaturally large.

My friend, Mr. Charles Adamson of Newcastle, has enabled me to figure the very beautiful variety now given from his cabinet. On a recent visit to Newcastle Mr. John Hancock showed me eggs of this species of a pure white.

*RAPTORES.**FALCONIDÆ.*

## WHITE-TAILED EAGLE.

AQUILA ALBICILLA.

PLATE II. FIG. II.

WE were invited whilst in Norway by some officers of the navy and army, who were engaged in surveying the coast, to join a party which they had made to visit one of the islands, where they were about to commence a search for the bones of some of their ancient kings. We had spent the day upon the island, and whilst they were engaged in digging for the remains of the mighty dead, had wandered round its rugged coast.

In the evening, whilst the rest of us repaired on board the cutter, my friend and companion Mr. John Hancock, with never-tiring zeal, chose rather to extend his solitary rambles on the coast. Although long after midnight when we landed, we found him still there waiting our return; he had seen a White-tailed Eagle, and after long and patient watching had succeeded in eying it to its nest.

This was high up the face of a precipice, the only access to which was through a deep and rugged gully on the right. We succeeded, after a most toilsome scramble, in reaching a sloping ledge of rocks, which we supposed must be above the nest. We had laid down our guns that we might hold on by the scanty tufts of grass which grew from the crevices of the rock, when the eagle rose within gunshot of our position, discovering to us its nest, a young one, and an unhatched egg. The nest was placed in a hollow of the rock, and was

composed of a large mass of sticks, and appeared to be thickly lined with soft materials. Between us and it intervened a large cubic mass of rock, so steep on its sides as to prevent the chance of our reaching the nest without the help of ropes.

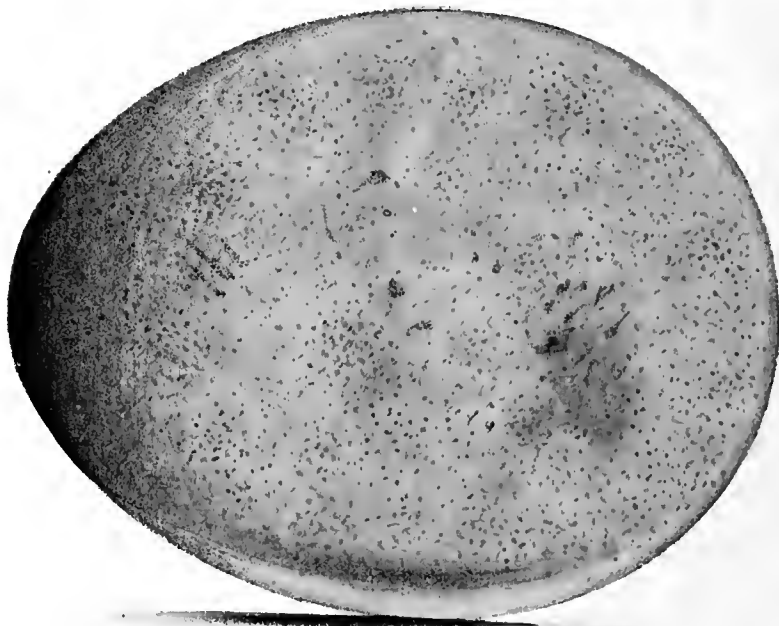
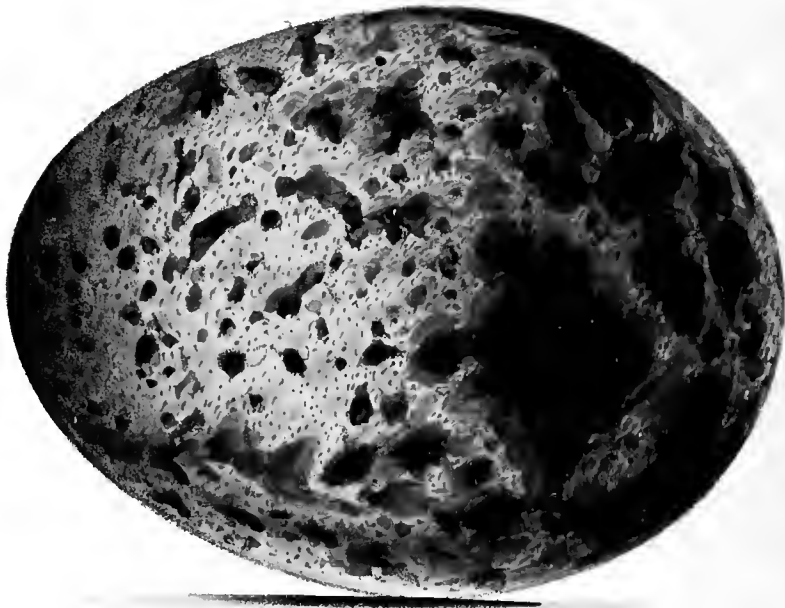
It went most sadly against our inclination to retreat; it wanted, however, but a few hours of the time when we must commence our homeward voyage. In its nidification, and the number of its eggs, this species resembles the Golden Eagle. All the eggs which I have seen are white, with the exception of the slight marking of the one now figured; it would not at all surprise me to meet with some a good deal coloured. Latham mentions one instance of this eagle breeding near Keswick in Cumberland.







III.



*RAPTORES.**FALCONIDÆ.*

## OSPREY, OR FISHING-HAWK.

PANDION HALIÆETUS.

PLATE III. FIG. I.

SPECIMENS of the eggs of the Osprey, kindly sent me from the collections of Sir W. Jardine and Mr. Yarrell, although very similar in colour, differ considerably in shape; one of them possessing the roundness which marks the eggs of the *Raptores*, whilst the other is considerably lengthened, and of a form which would appear from Wilson to be characteristic of this species. A note accompanying the specimen from Sir W. Jardine, states that it was procured from Loch Menteith, in Perthshire, a favourite station with the bird; he also states, in his edition of Wilson's *Ornithology*, that a pair or two may be found about most of the highland lochs, where they build on the ruined towers so common on the edges or insulated rocks of these wild waters. The nest is an immense fabric of rotten sticks, and is generally placed, if such exists, on the top of the chimney, and if this be wanting, on the highest summit of the building. An aged tree may sometimes be chosen, but ruins are always preferred if near.

Mr. Selby mentions his having seen the Osprey on Loch Awe, "where an eyrie is annually established upon the ruins of a castle near the southern extremity of the lake, and another in a similar situation, nearly opposite the egress of the River Awe."

For a further account of this species I have had recourse to the faithful description of Wilson, whose opportunities of

observing it were frequent, for so abundant is it in America, that no less than three hundred nests have been counted at one time on an island near New York; the old birds living together peaceably in close proximity, like so many rooks.

“The nest of the Fish-hawk is usually built on the top of a dead or decaying tree, sometimes not more than fifteen, often upwards of fifty, feet from the ground.

“It has been remarked by the people of the sea-coast that the most thriving tree will die in a few years after being taken possession of by the Fish-hawk.

“This is attributed to the fish-oil, and to the excrement of the bird, but is more probably occasioned by the large heap of wet salt materials of which the nest is composed. In my late excursion to the sea-shore I ascended to several of these nests that had been built in from year to year, and found them constructed as follows: externally large sticks, from half an inch to an inch and a half in diameter, and two or three feet in length, piled to the height of four or five feet, and from two to three feet in breadth; these were intermixed with cornstalks, sea-weed, pieces of wet turf in large quantities, and lined with dry sea-grass, the whole forming a mass observable at half a mile's distance, and large enough to fill a cart. About the 1st of May the female begins to lay her eggs, which are commonly three in number, sometimes only two, rarely four.”

It will be seen that some of the sticks which Wilson mentions as forming a part of the Osprey's nest, would form a very substantial walking-stick.

RAPTORES.

FALCONIDÆ.

## ICELAND FALCON.

FALCO ISLANDICUS. (*Hancock.*)

PLATE III. FIG. II.

AT the meeting of the British Association in Newcastle, Mr. John Hancock cleared up to the satisfaction of the Ornithologists there present, all those doubts which had previously existed with regard to the Gyr Falcon; he has since, too, had opportunities of examining a large series of both the Greenland and Iceland birds, and of verifying and confirming his former opinions on the subject.

Ornithologists, though unable to settle the question, had pretty generally come to the opinion that there was but one species, and that the White, or Greenland specimens, were merely varieties of age of the Grey, or Iceland bird. Faber, who spent some time in Iceland, and paid great attention to the subject, finding that the Falcon of that country retained the dark grey plumage during the breeding-season, was induced to consider the white birds which he saw only in the winter months, as albino varieties of the former.

All these difficulties Mr. Hancock has got rid of, by proving that the beautifully-marked black and white birds are of a distinct species; that the Falcons attain their mature dress at the first moult, and that although both the species are very much alike when young and in their nesting plumage, yet that the bird which remains in Iceland the year through, and which must retain the name of *Islandicus* which he proposes,

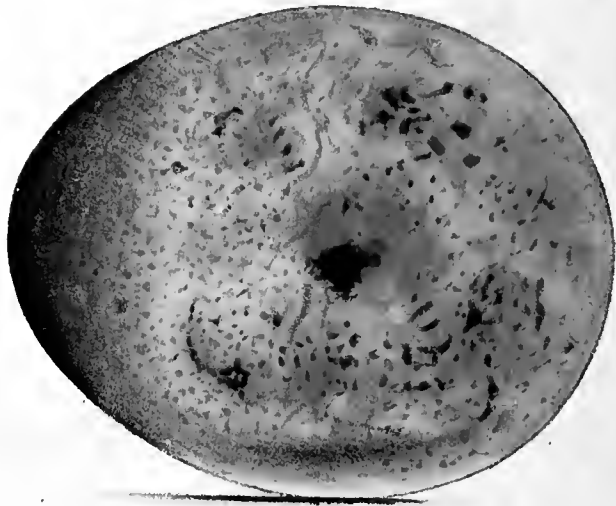
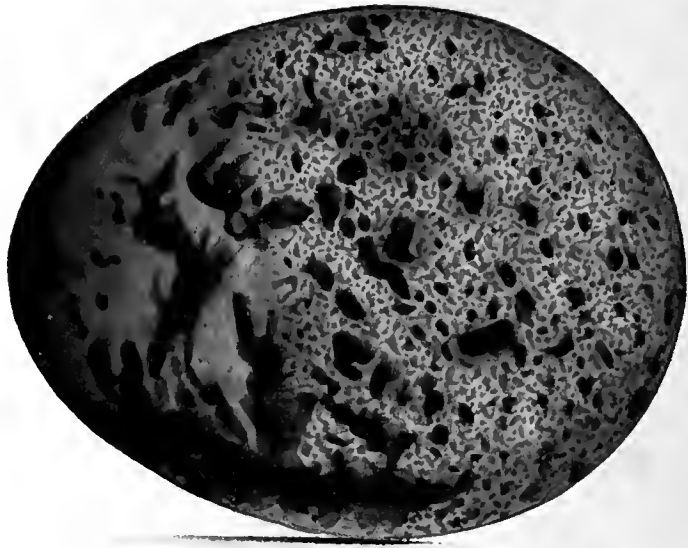
never attains the variegated plumage of the Gyr and Greenland Falcon figured by Mr. Yarrell.

The egg from which the figure has been now drawn, was taken by Mr. Proctor, the Curator of the Durham University Museum, from the nest of the true Iceland Falcon, whilst on a visit to that country. He had gone out for the purpose of collecting birds and their eggs, but did not reach the favourite localities of the Iceland Falcon till the broods were flown. This was in the beginning of August, when he shot several full grown young ones, and found some of the deserted nests; the one from which he took the egg now drawn was composed of sticks and roots, lined with wool, amongst which the egg, a rotten one, was embedded. He supposes that the nest may have been that of a raven, which is most probable, as it much resembled one. The remains of many birds, Whimbrels, Golden Plovers, Guillemots, and Ducks, lay strewed about the nest. This nest and others which Mr. Proctor saw were all in cliffs, forming the boundary of fresh water lakes, but none of them so high in the mountainous districts as he expected to have found them.

The egg from which my former figure was taken is a much better coloured specimen than the one now given; but as it is not known to which of the species it now belongs, I have chosen rather to draw the accompanying one, liberally sent me for that purpose from the collection of Mr. Salmon. It has most probably lost some of its original colouring.



IV.





*RAPTORES.**FALCONIDÆ.*

## PEREGRINE FALCON.

FALCO PEREGRINUS.

PLATE IV.

THE PEREGRINE FALCON is much too large a bird to escape for any length of time the prying eyes of the game-keeper. It is, therefore, confined to those wild districts which he rarely visits, and most of its breeding-places in this country are in the highest and least accessible cliffs of our sea-coast, to which it will return for many years together.

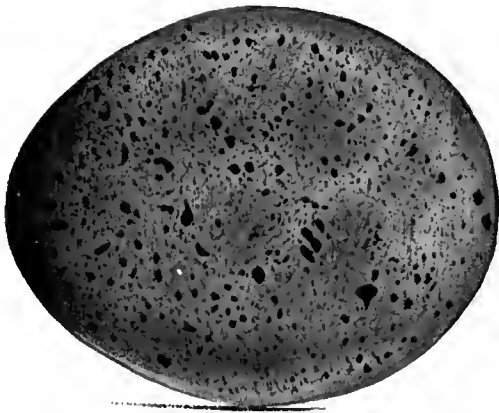
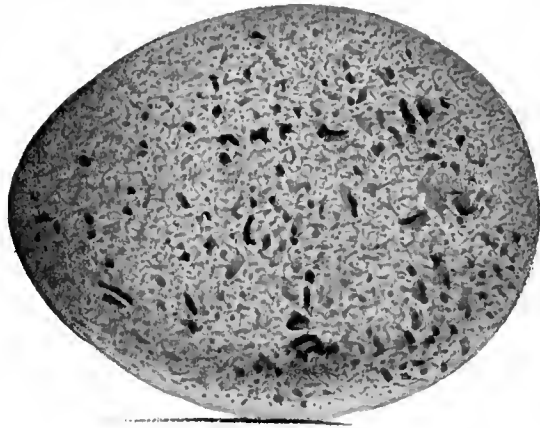
The Rev. W. D. Fox informs me that a pair of these birds have frequented the rocks of the Isle of Wight, and although annually plundered of their eggs or young ones, have for many successive years returned to the same spot; and what is more remarkable, although one of the sexes has been sometimes shot, the remaining bird has never failed to bring a mate with it the following spring. It makes but a slight nest, or more frequently, I believe, takes possession of that of some other bird, failing which it will content itself with the bare rock.

Its eggs are three or four in number, and differ, as will be seen by those figured in the plate, very considerably in colour as well as size, according to the age of the bird, the first figure being drawn from that of a mature bird, whilst the second was the produce of a young one. They were kindly sent me from Bamff, in Scotland, by Mr. Smith, rector of the grammar-school, and were taken from the fine cliffs which bound the Murray Firth, there being no nest whatever.





V



*RAPTORES.**FALCONIDÆ.*

## HOBBY.

FALCO SUBBUTEO.

PLATE V. FIG. I.

THIS beautiful species of hawk is, I believe, rare throughout the country, and, as far as my own observation goes, is more common in some parts of Yorkshire than elsewhere; not, however, having had an opportunity of seeing much of its habits, I avail myself of the information of Mr. Hoy.

He tells me, that the Hobby is a late breeder, seldom having eggs before the first week in June; that it very rarely, if ever, builds its own nest, but takes possession of that of a crow or magpie, preferring those which are placed near the tops of high trees; and though it may be met with breeding in large woods, seems very partial to isolated groves of fir, and other trees situate in an open country, where it can not only pursue with advantage the feathered tribe, but also capture vast numbers of coleopterous and other insects, upon which it feeds very much.

When in Norway we met with a nest of the Hobby, placed upon a projecting ledge of rock, on the face of a steep precipice, which, overhung with brushwood, formed a part of the beautiful scenery of one of the lovely lakes of that country. This was in the month of June.

The Hobby lays sometimes only two, but for the most part three eggs. Mr. Hoy told me that he had never met with more. As far as I have had an opportunity of seeing

them, they are not subject to much variety; one specimen only, which I have previously figured, was remarkable for the absence of all the deeper red colouring.

These eggs are a good deal like some of those of the kestrel, as well as those of the merlin; they are, however, larger than either, of a pinker hue, less suffused with colour, and are marked with fewer of those small black dots which are scattered over the surface of the others.

*RAPTORES.**FALCONIDÆ.*

## MERLIN.

FALCO ÆSALON.

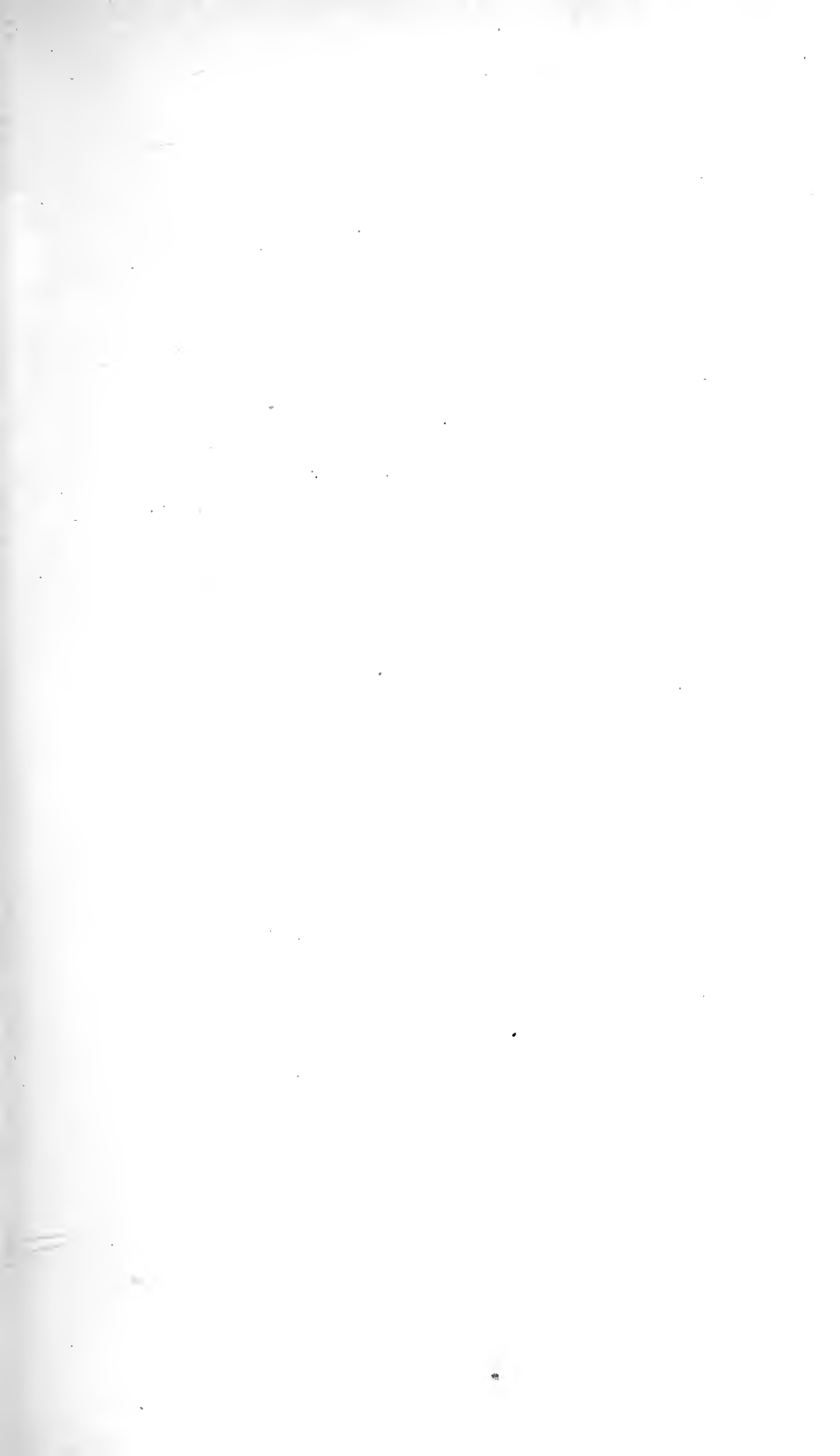
PLATE V. FIG. II.

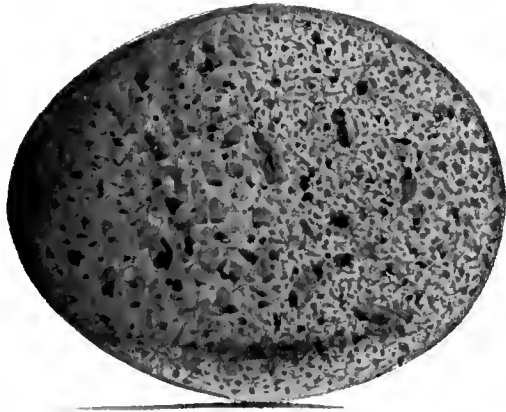
THE eggs of the Merlin, as far as any notice occurs of their detection in this country, have been found deposited upon the ground, and chiefly upon those extensive heathy moors which abound in the north of England. Temminck, however, says that the Merlin breeds in trees; and this, I think, is very probably the usual case in those districts which abound in wood. Were we to judge from the colour of its eggs, we should be led to expect that such was its usual habit, since the eggs of the other ground-building raptorial birds are white, or nearly so. These are, in their turn, represented amongst the arboreal breeders by the white-tailed eagle and the goshawk, which lay eggs that are also white, or rarely slightly coloured. Whilst in Norway we had the eggs of a hawk brought to us which had been taken from a tree, and which I have not the least doubt were those of the Merlin, as they corresponded exactly with the second figure of the plate both in colour and in size, and were less than the usual eggs of the kestrel. We also noticed a pair of these birds in a thick part of the forest, which, during our stay in their neighbourhood, evinced so much of that solicitude which birds do on your approach to their nests, that we felt quite sure theirs could not be far distant. So thick and tangled were the trees and brushwood, that it was not till after a weary and laborious search that we

were rewarded by its discovery. It was near the top of a tall spruce fir tree, and had every appearance of having been newly made by the birds themselves. It was outwardly of sticks, thickly lined with wool.

The Merlin, as far as my information goes, can scarcely be said to make a nest, when it deposits its eggs upon the ground, laying them either upon the bare heather, or on a small quantity of dry grass; they are four or five in number, and for the most part differ little from the plate; in their usual colouring they very much resemble one of the varieties of the eggs of the kestrel figured in the following plate, but are smaller, browner in colour, and are more closely sprinkled over with small black dots. Some of the varieties might also readily be mistaken for eggs of the kestrel. One of the most beautiful which I have seen is in the collection of Mr. John Hancock, of Newcastle; it is of a rich crimson red, blotched with deeper colour.







*RAPTORES.**FALCONIDÆ.*

## KESTREL.

FALCO TINNUNCULUS.

PLATE VI.

I AM inclined to believe that the true falcons very rarely make a nest for themselves. It is well known that the Kestrel most frequently takes possession of that of some other bird in which to rear its young ones. It breeds not uncommonly in most of our woody districts, laying its eggs in the nest of a crow or magpie.

In those bare and wilder places to which it also frequently resorts, it either makes its own nest, or uses that of the raven or the jackdaw, upon the ledge of some rocky steep, or on the walls of some crumbling ruin.

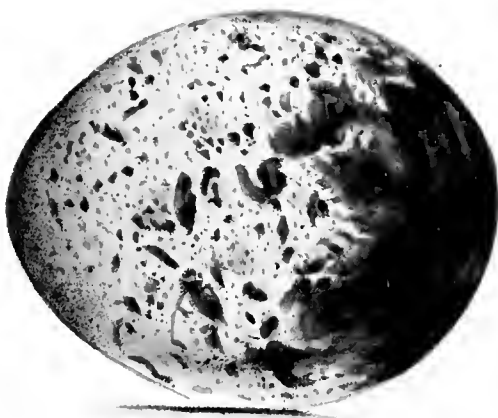
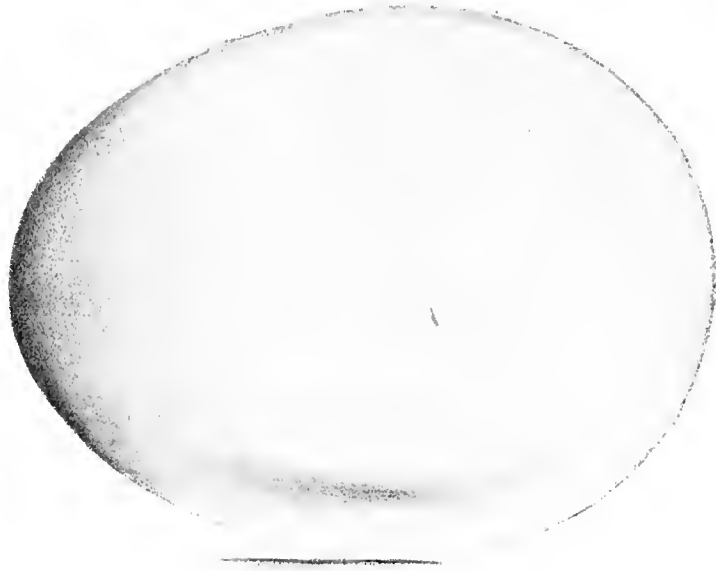
The eggs are four or five, and sometimes, though rarely, six in number; they are beautifully varied and richly coloured; some of them, like the first figure of the plate, are suffused over their whole surface with red, closely freckled with darker colour, and much resembling in this variety eggs of the Merlin; others are blotched with deep colour like the second figure, whilst intermediate varieties occur with a greater proportion of light ground colour, and a good deal resembling some eggs of the sparrow-hawk, but always of a redder hue.

I often think with pleasure of a pet Kestrel which was my companion when at school. It had been reared from the nest, and used to enjoy so much of its native freedom in long

flights round the neighbourhood in which we lived, that it never seemed desirous altogether to regain it.

Many a time, when sailing high in air, it would pounce down at my call, and quietly settling on my arm, remain to eat the food which I had brought it. Sometimes, greatly to my consternation, whilst at our daily lessons, it would enter the open window and fly, loudly screaming, round the room.





*RAPTORES.**FALCONIDÆ.*

## GOSHAWK.

ASTUR PALUMBARIUS.

PLATE VII. FIG. I.

MR. LOW, in his *Fauna Orcadensis*, says that the Goshawk is rather common there, breeding in the rocks of the sea coast. Whatever may have been its numbers during his time, it is not now to be met with either in Orkney or the adjacent isles of Shetland.

The peregrine falcon may sometimes be seen there; and I much suspect that it is the Goshawk of Mr. Low.

The Goshawk is a scarce bird with us, and has rarely been detected breeding in this country. Mr. Selby says that it breeds in Scotland.

It is to be met with during the summer season in the extensive forests of Holland, Germany, and various parts of the Continent; and, Mr. Hoy informs me, builds its own nest, and, if undisturbed in its possession, will frequently occupy it for several years, making the necessary repairs. It is placed in some high tree on the outskirts of the forest, and is rarely found in the interior of the woodland, except in those parts which are cleared, and free from timber.

The eggs are three or four in number, and are frequently hatched by the middle of May; they are, I believe, for the most part spotless, but my friends, Messrs. J. H. and W. Tuke, of York, have one in their collection which is indistinctly marked with brown.

*RAPTORES.**FALCONIDÆ.*

## SPARROW-HAWK.

ACCIPITER NISUS.

PLATE VII. FIGS. II. AND III.

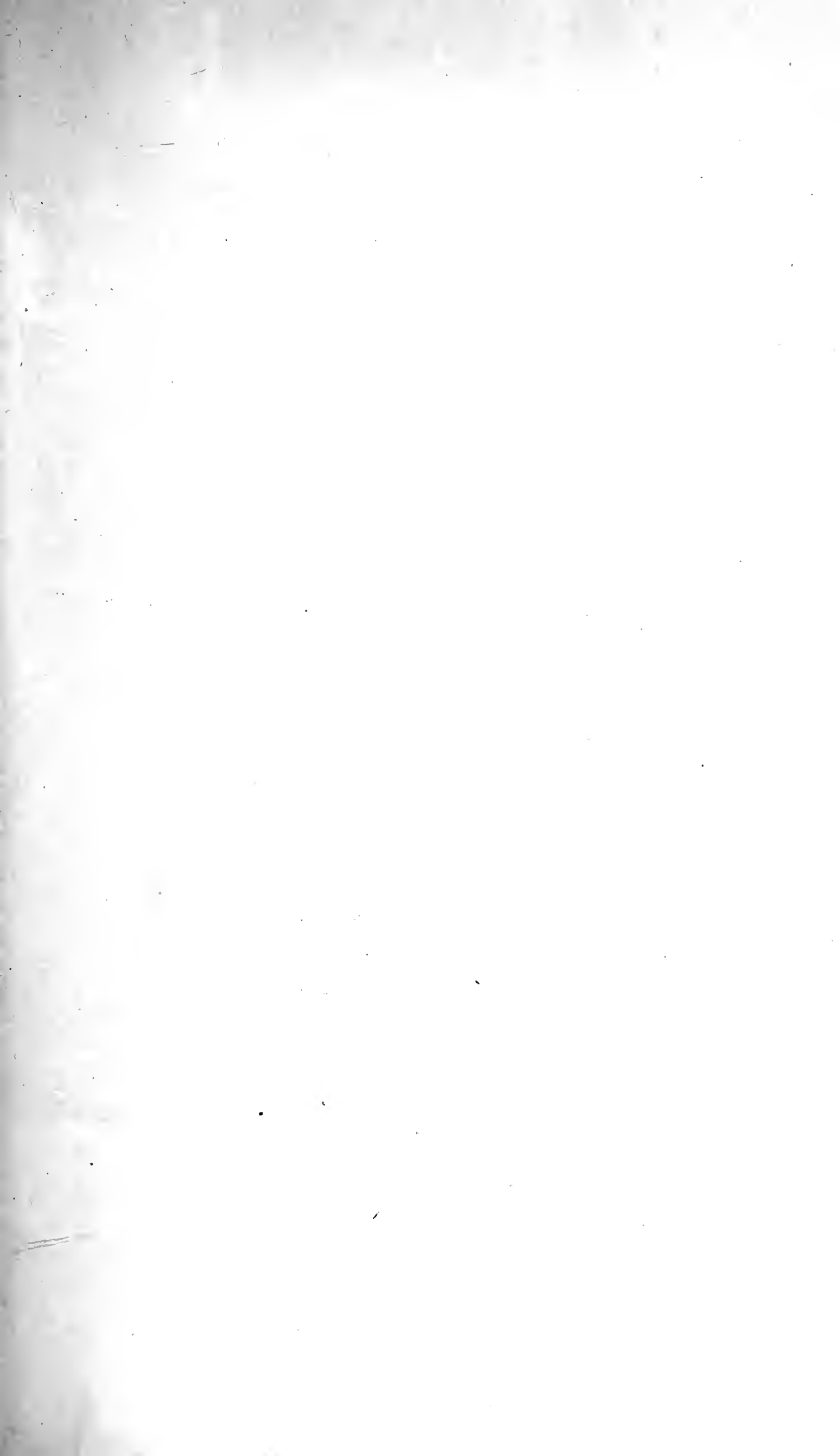
THE SPARROW-HAWK, although one of our commonest birds of prey, is not nearly so numerous as the kestrel. Its eggs may sometimes be found upon the ledge of some lofty cliff, but are much more frequently to be met with in trees, for the most part occupying the usurped nest of a crow or magpie; sometimes it would appear, however, in a nest of its own construction. Mr. Selby says that it occasionally makes its own nest in low trees or thorn-bushes, that it is flat and shallow, and very similar to that of the ring-dove, but rather larger, and is composed of slender twigs.

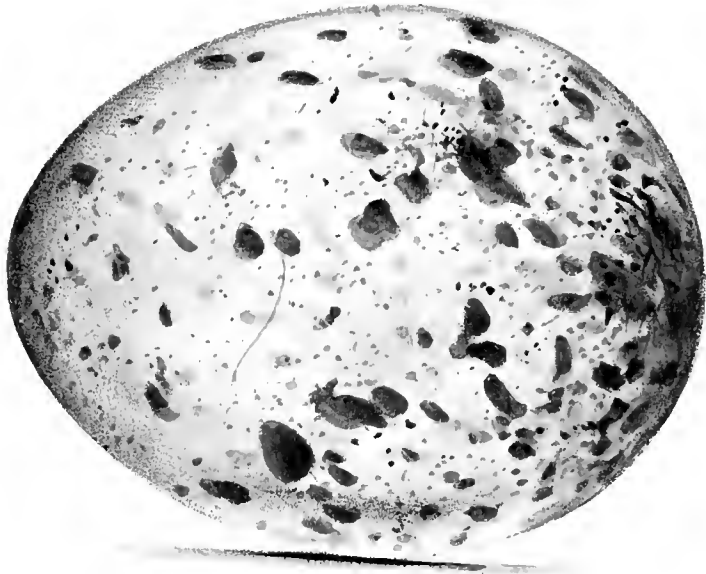
The eggs of the Sparrow-hawk, although usually very readily distinguished from those of any other species, are subject to varieties, which sometimes rather closely resemble those of the kestrel; the eggs of the latter are, however, always much redder in their colouring.

For the two beautiful and opposite varieties in the plate, I am indebted to the kindness of Miss A. Worsley, of Brington.

There are some specimens, on which all the markings are very obscure and indistinct; and others on which all the dark blotches of colour are at the smaller instead of the larger end.







*RAPTORES.**FALCONIDÆ.*

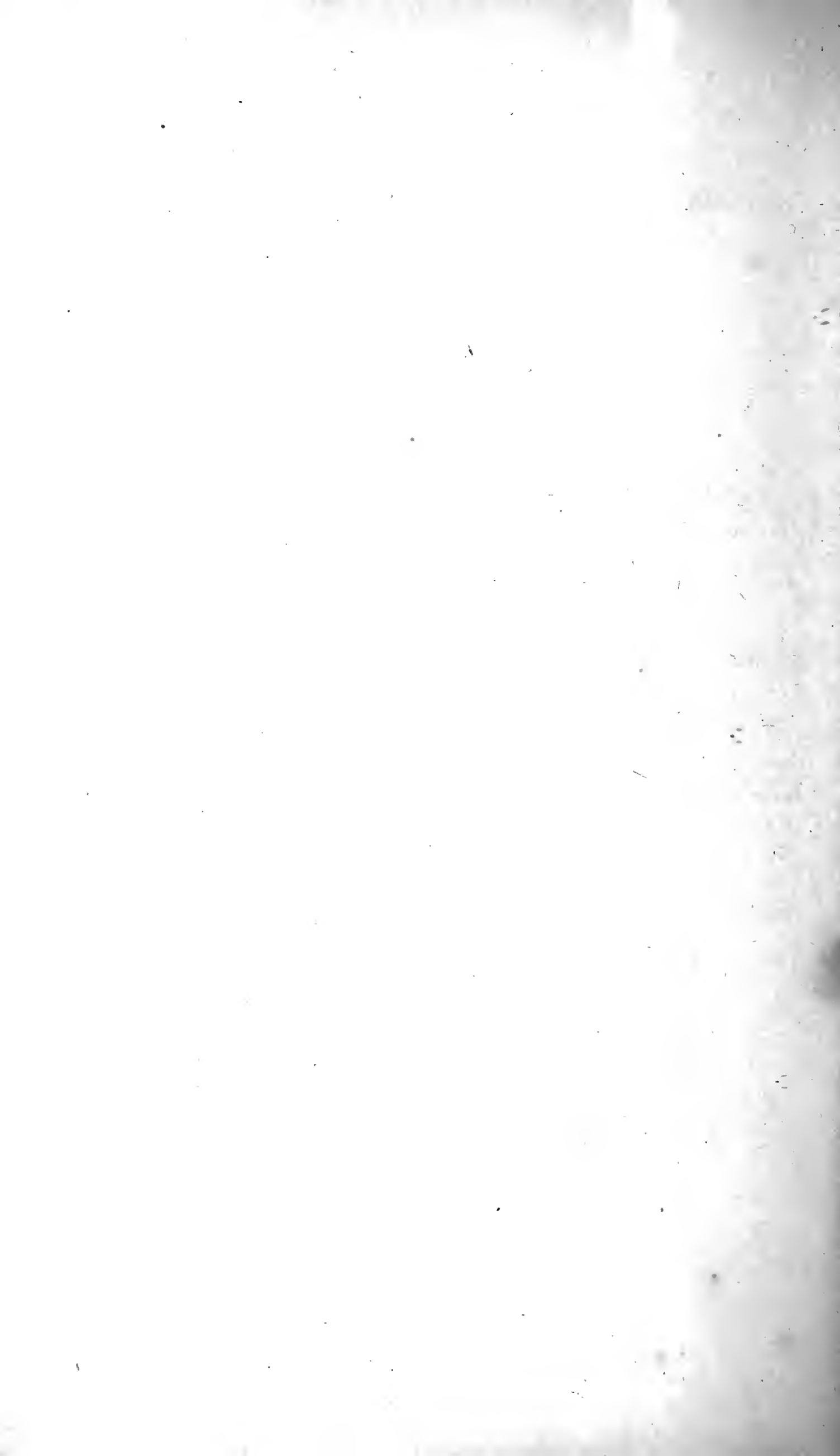
## KITE.

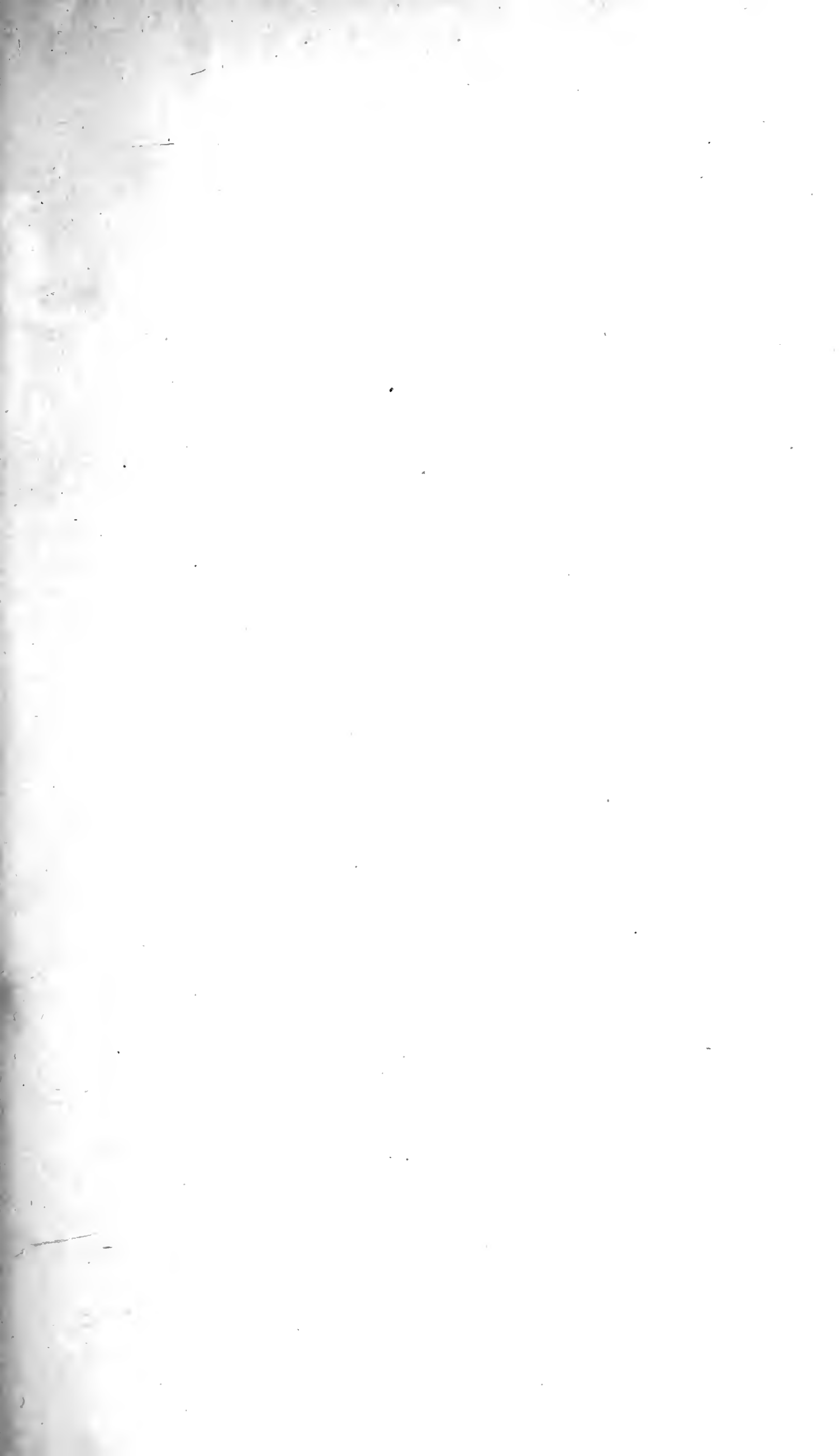
MILVUS VULGARIS.

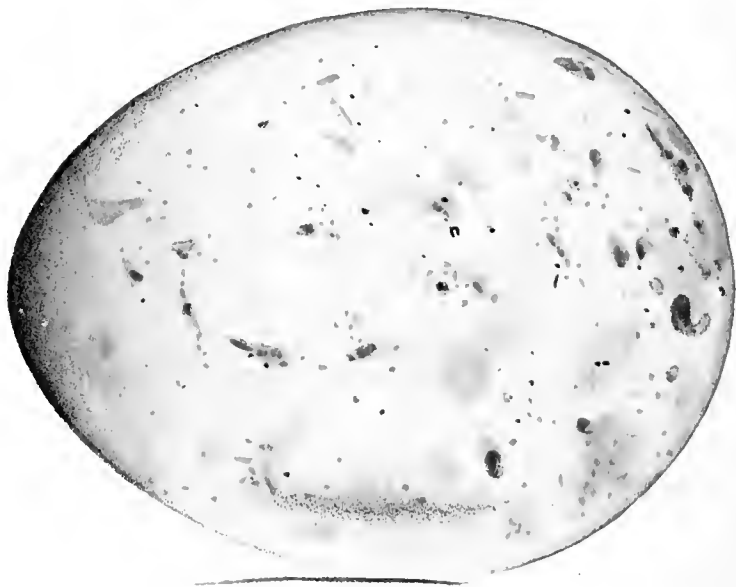
PLATE VIII.

THE KITE appears to be, from choice, rather local. Whether so or not, it is now in England confined to some of the large woods of the midland and southern counties, and the wilder districts of the north. It is not uncommon in some parts of Wales and Scotland; and, according to Mr. Selby, is plentiful in Aberdeenshire. It occurs in the vicinity of Loch Katterine, and I have had the pleasure of watching its graceful circling flight from the beautiful banks of Loch Awe, and have frequently seen two or three together when passing the large woods in the neighbourhood of Alconbury Hill, where it always breeds, building its nest in the fork of a large tree; it is composed of sticks, lined with dry grass, wool, and other soft materials.

The eggs, which it will be seen by the plate resemble those of the common buzzard, are not, as far as I have had an opportunity of seeing them, subject to much variety; one in the collection of the Rev. W. D. Fox, is singularly spotted with minute dots, and waved linear marks; they are commonly three in number, and, Mr. Selby tells us, are sometimes spotless.







*RAPTORES.**FALCONIDÆ.*

## COMMON BUZZARD.

BUTEO VULGARIS.

PLATE IX. FIG. I.

THE COMMON BUZZARD is, with all the larger birds of prey, driven to seek shelter in a few of our more extensive woods, far from which it is rarely seen. Its nest is built in trees, and is composed of sticks, lined with a quantity of wool, fur, and such-like soft materials. In Scotland, where it is more numerous than with us, Mr. Macgillivray says that it forms its nest on rocks, and, describing one which he found on the steep banks of a stream, he adds, that it was made of twigs, heath, wool, and other substances.

The eggs, which are three or four in number, vary according to the age of the bird, and are sometimes of a spotless white. The beautifully coloured egg from which the plate is drawn, is in the collection of Mr. Charles Adamson of Newcastle, and is the produce of an old bird.

Mr. R. R. Wingate had the eggs of the Common Buzzard brought to him from the same place for several successive years—no doubt the produce of the same bird. The first year they were white, or nearly so; the second year slightly marked with indistinct yellowish-brown; and increasing each year in the intensity of their colouring till the spots became of a rich dark brown.

*RAPTORES.**FALCONIDÆ.*

## ROUGH-LEGGED BUZZARD.

BUTEO LAGOPUS.

PLATE IX. FIG. II.

IT was not known till communicated through the pages of Mr. Yarrell's Birds, that the Rough-legged Buzzard was more than a temporary visiter of this country.

It is however there stated, upon the authority of Mr. Williamson of Scarborough, and I have pleasure in confirming that statement, through the kindness of my friend James Tuke of York, who has visited the neighbourhood, and made personal inquiries on the subject, "that it occasionally breeds in a precipitous dell near Hackness in Yorkshire, and that a marked female returned a second year with a new mate to her favourite haunt."

The Rough-legged Buzzard is an abundant species in some of the extensive forests of Germany. I noticed several, whilst travelling through some of the wilder parts of Baden and Wirtemberg, hunting over the vineyards and fields of Indian corn which border on the woody districts. It breeds, like the other allied species of hawks, in precipitous rocks and lofty trees, laying from three to five eggs, differing like those of the common buzzard, considerably in their colour; some specimens being nearly white, whilst others are darker and more blotched with colour than the one from which I have drawn my figure. The only specimens which I have seen are in the collection of the Messrs. Tuke of York, they were obtained from Germany, and are all thus lightly tinted.





X



*RAPTORES.**FALCONIDÆ.*

## HONEY BUZZARD.

PERNIS APIVORUS.

PLATE X.

A MUCH greater number of this species have of late been noticed as visiters of our island than had been for many previous years recorded.

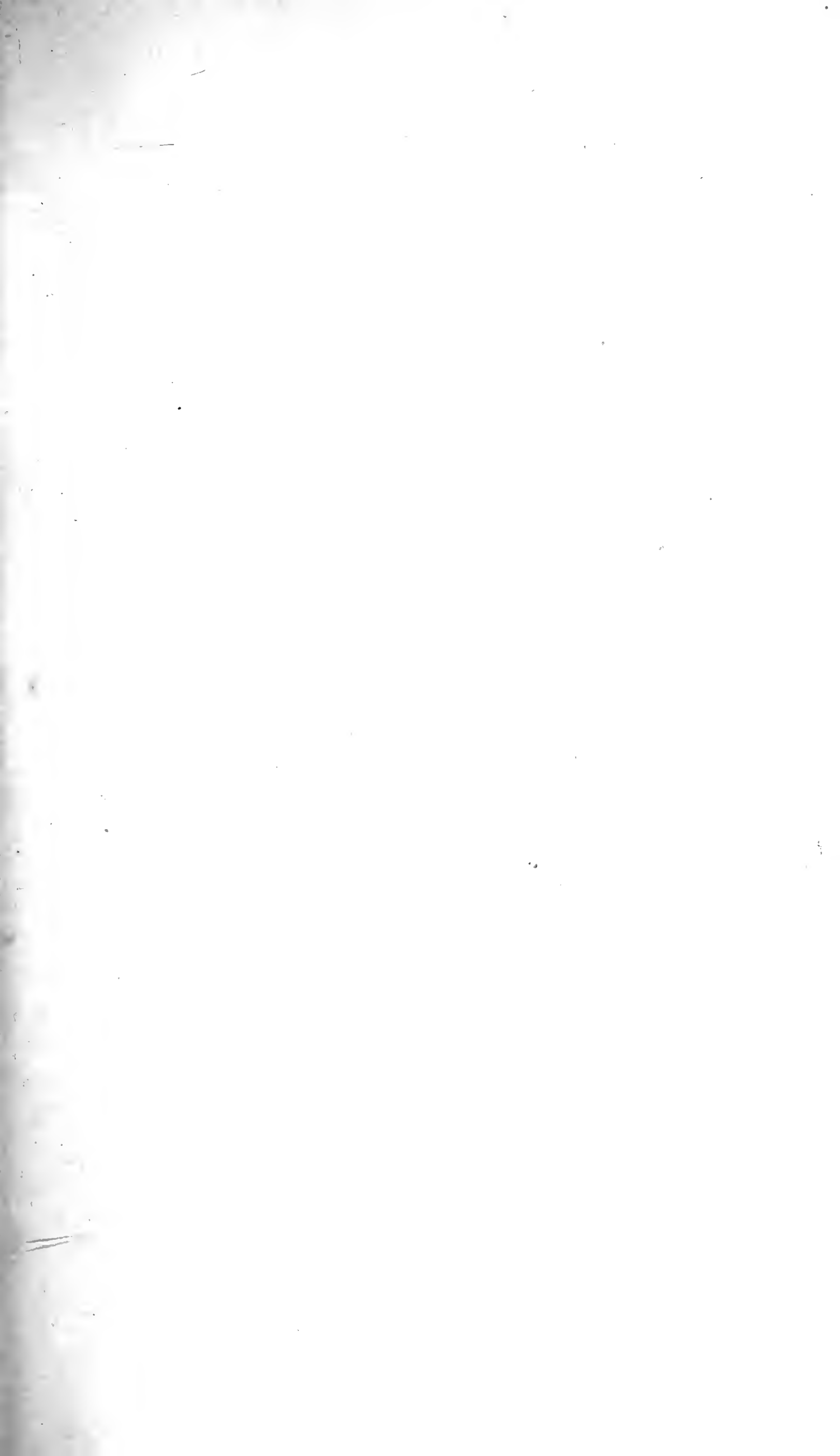
They have occurred during the last few years in various parts of England, and amongst several instances of their appearance in Northumberland, Mr. John Hancock has singularly obtained two fresh specimens, picked up dead upon the sea-shore.

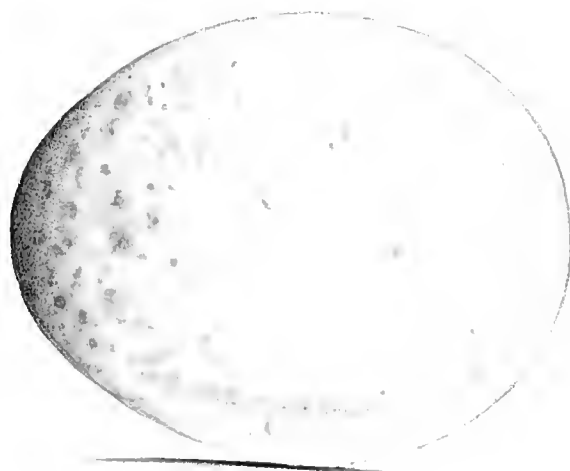
It seems, however, to have been more numerous years ago. Willoughby mentions a pair which made use of an old nest of the kite to breed in, and further states that the Honey Buzzard builds its nest of twigs, lining it with wool; and White thus refers to one at Selborne: "A pair of Honey Buzzards built there a large shallow nest, composed with twigs, and lined with dead beechen leaves, upon a tall slender beech near the middle of Selborne Hanger, in the summer of 1780.

"In the middle of the month of June a bold boy climbed the tree and brought down the egg, the only one in the nest, which had been sat upon for some time, and contained the embryo of a young bird."

There is no recent instance of the Honey Buzzard having bred in this country.

The eggs are two or three in number, and, judging from the specimens which I have seen in the collections of Mr. Yarrell, Mr. Doubleday, and the Messrs. Tuke of York, are coloured in a way which, though at once showing their relationship to others of the same family, is nevertheless very peculiar, and characteristic of this species. The colouring matter seems to have been profusely supplied, and is thickly spread over almost the entire surface of the egg.





RAPTORES.

FALCONIDÆ.

## MARSH HARRIER, OR MOOR BUZZARD.

## CIRCUS RUFUS.

PLATE XI. FIG. I.

MONTAGU, in describing the eggs of the Marsh Harrier, says that they are "perfectly white, without spot." Latham, on the contrary, in his description of the eggs of the same species, that they are "spotted with brown."

These assertions, when applied to the particular eggs which each of the parties may themselves have seen, are no doubt perfectly correct. Mr. Selby, however, contradicts the statement in the Index Ornithologicus of Latham, and says that they are "white, and not spotted."

With the descriptions of Montagu and Latham, taking them to refer, as I have done, to particular specimens of the eggs of the same species, I have no difficulty in agreeing, and regret that I cannot do so with that of Mr. Selby also. The eggs of the Marsh Harrier, although for the most part white, or slightly tinted with blue, are sometimes also spotted and smeared with brown, in the same manner as those of the hen harrier. I have figured one which is very slightly coloured.

This species and the common buzzard approximate most beautifully as far as relates to their mode of breeding, and form the connecting link between the genera *Buteo* and *Circus*. The common buzzard, as I have before shown, breeds in trees, its eggs are usually spotted, sometimes quite

white. The eggs of the Marsh Harrier are most commonly white, but sometimes spotted; it almost always breeds on the ground, but will sometimes, assuming the habits of the common buzzard, breed in the fork of a large tree, in which place Montagu says he has himself found it; in such a situation the nest would, as he describes it, be formed of sticks and such like materials. In the fen-countries, its usual resort, the nest is composed of so large a quantity of flags, reeds, and sedges, as to raise it a foot, or a foot and a half above the ground. The eggs are usually four, sometimes, though not often, five in number; the time of incubation early in May.

All the eggs of the Marsh Harrier which I have seen, upon the identity of which reliance could be placed, are considerably less than those of the common buzzard; and many of the eggs which stand in collections as those of the Marsh Harrier, would, I think, more properly bear the name of the other species. It is from one of these that Mr. Yarrell has written his description, when he gives the dimensions as "two inches one line in length, and one inch six lines in breadth." The eggs of the three species of Harrier may be readily known from those of nearly allied species, by the clear greenish-blue of the inside, which may be seen upon holding them to the light.



*RAPTORES.**FALCONIDÆ.*

## HEN HARRIER.

## CIRCUS CYANEUS.

PLATE XI. FIG. II.

THE HEN HARRIER breeds chiefly in the marshy districts of this country, and most commonly in the fens of Cambridgeshire; the nest is placed upon the ground, and is formed of so large a quantity of flags, sedge, and reeds, as to raise it eighteen inches or two feet above the surface, and thus to protect the eggs and young ones from the water by which the low grounds are often flooded. A correspondent tells me that he has known the nest raised in this manner nearly four feet from the foundation. The eggs are four or five in number, and though perhaps most frequently of a spotless bluish-white, are yet often slightly marked with yellowish-brown, mixed with a purplish hue, and in some specimens, like the plate, with more distinctly defined spots of light brown. To Mr. Heysham I am indebted for specimens from the neighbourhood of Carlisle; and to the Rev. W. D. Fox, for others from the fens of Cambridge.

*RAPTORES.**FALCONIDÆ.*

## MONTAGU'S HARRIER.

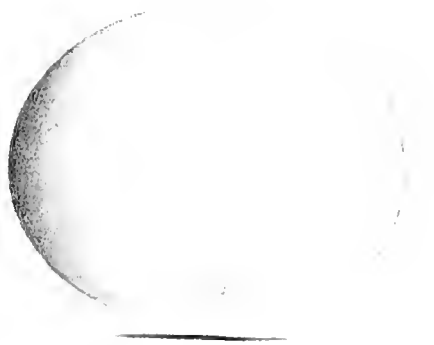
CIRCUS CINERACEUS.

PLATE XI. FIG. III.

FOR authentic, and, therefore, valuable specimens of the eggs of this species, I am indebted to my friend the Rev. W. D. Fox. These were procured for him by Mr. David Baker, of Melbourne, who has an accurate knowledge of the birds of the fen countries, which he stuffs for sale; and that there might be no doubt of their identity, the old birds were trapped upon the nest.

Montagu's Harrier breeds in the fens of Cambridgeshire, and though at one time more abundant than has been supposed, is now becoming rare, and exceedingly difficult to procure. The nest, which is placed upon the ground, is more slight than those of the other two Harriers, and is composed, like them, of flags, sedge, and rushes. The eggs are usually four or five in number; the nest from which are the specimens in my cabinet, contained six, the only instance of the kind which Mr. Baker has ever met with; they are of a clear white, distinctly tinted with light blue, and are never, to the best of my information, spotted. Like the last species the time of incubation is early in May.





*RAPTORES.**STRIGIDÆ.*

## EAGLE OWL.

## BUBO MAXIMUS.

PLATE XII. FIG. I.

THERE is a strong and perfect similarity amongst the eggs of the different species of Owls, which we could scarcely expect to find in the eggs of birds which differ from each other so much in their mode of breeding. The eggs of those species which are deposited in the hollows of old trees, and deserted ruins, and those which are found on the bare sod, and exposed to the broad light of day and the pelting storm, are alike without colour. The Eagle Owl breeds in the north of Europe, making its nest upon the bleak and unsheltered summit of some lofty mountain. In such situations Linnæus found their nests and young ones, whilst making his tour of Lapland, in the months of May and June; it was not, however, our good luck to be alike successful, although we traversed in search of them the pine-crested mountain ridges, the rocky steeps, and the snow-clad heights of the neighbouring country. In one instance only we had the gratification of seeing one of these noble birds at large, as it topped the heathery summit of the hill which we were climbing, and was lost to our anxious gaze.

*RAPTORES.**STRIGIDÆ.*

## SCOPS-EARED OWL.

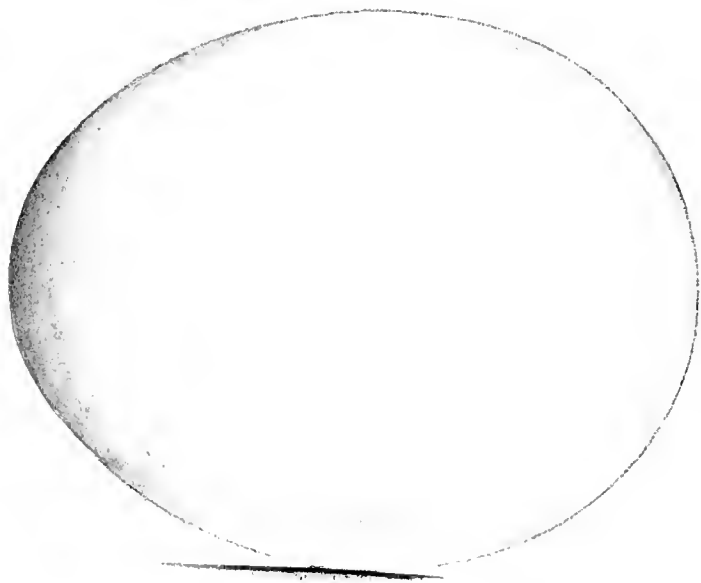
SCOPS ALDROVANDI.

PLATE XII. FIG. II.

THIS very minute and beautiful species of Owl has been excluded by Mr. Gould from the list of our British Birds, although there are several undoubted instances of its having been captured in this country. It has even been said to breed in the county of Durham, in Castle Eden dean, but upon quite insufficient authority. On the Continent, in some parts of France and Italy, it is not uncommon, and lays its eggs, which are four or five in number, in the holes of trees.



XII\*





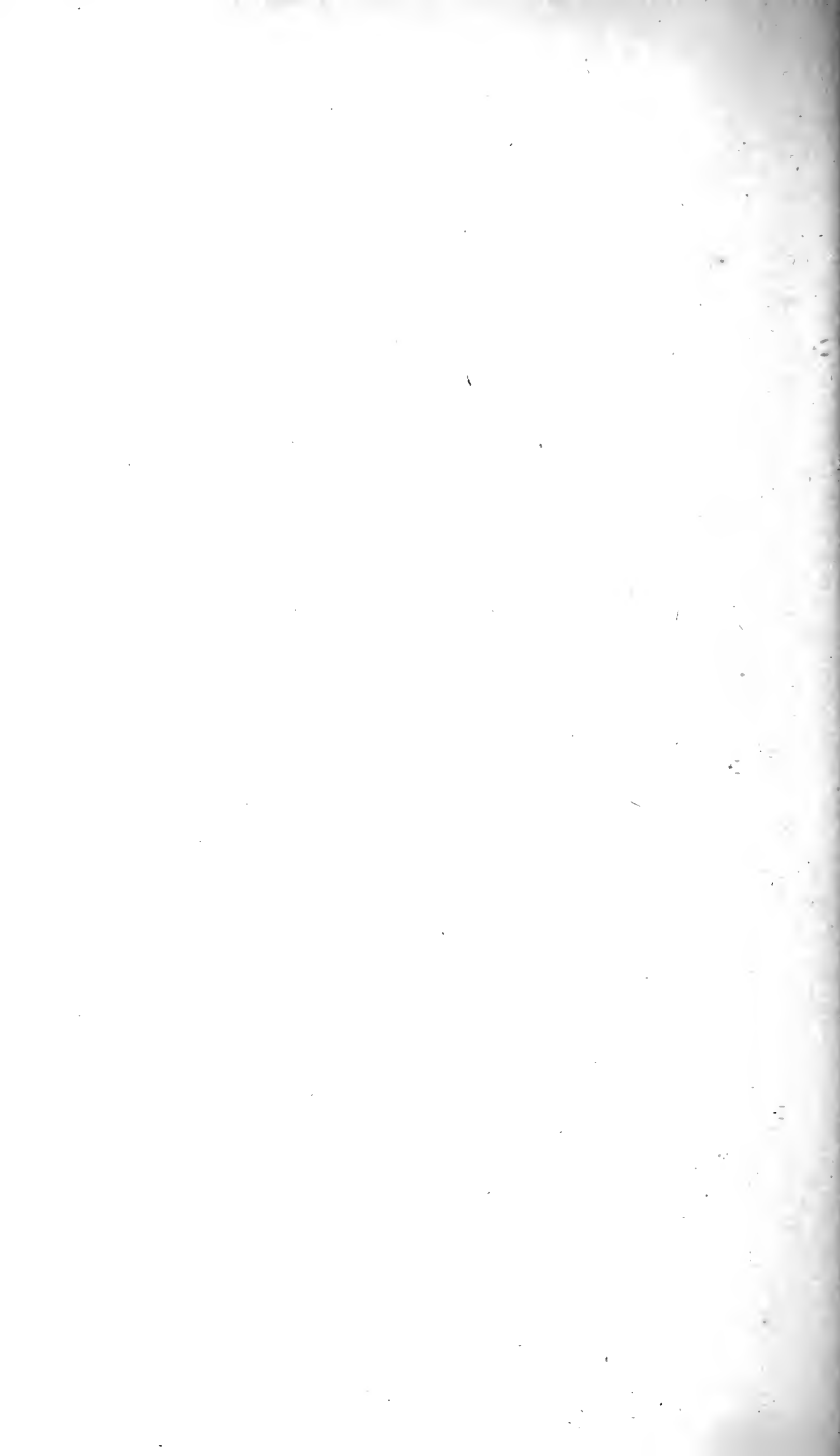
*RAPTORES.**STRIGIDÆ.*

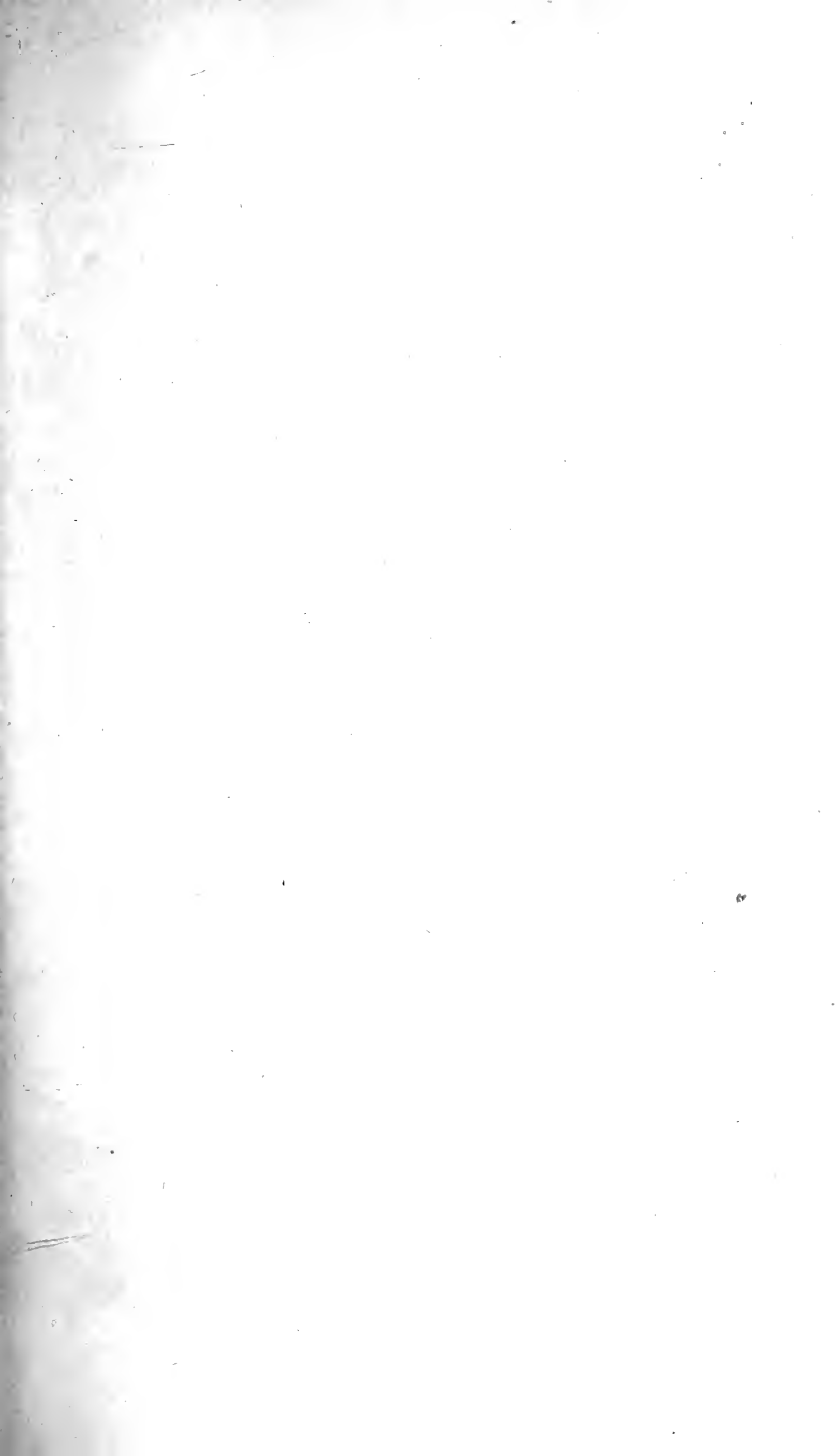
## SNOWY OWL.

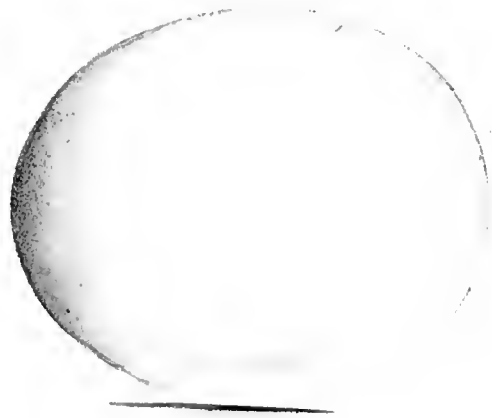
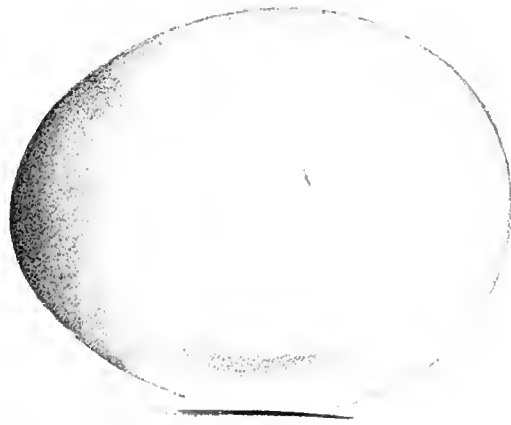
SURNIA NYCTEA.

PLATE XII.\*

THE SNOWY OWL which, it is supposed, used to breed on some of the Shetland Islands, is now a very rare visitor to any part of the British Islands. It is said to breed on various parts of the European Continent, and has been met with in most of those countries washed by the icy seas. The egg from which I have made my drawing, is in the collection of Mr. Wilmot, and was brought from Labrador.







RAPTORES.

STRIGIDÆ.

## LONG-EARED OWL.

OTUS VULGARIS.

PLATE XIV. FIG. I.

THE LONG-EARED OWL is to be met with in most of our woody districts, especially those which are composed of fir-trees. It is plentiful round York, where, the Messrs. Tuke inform me, they have frequently seen it flying, like the short-eared species, during the daytime; that the several nests which they have examined were the deserted ones of other birds, but apparently altered by the owls so as to form a perfectly level platform. These nests were either on the outskirts or in an opening of the wood, the ground beneath them being strewed with the remains of the blackbird, yellow hammer, green linnet, and chaffinch. My friends are of opinion that this Owl does not lay more than three eggs: none of the nests which they have seen—but they all had young ones—contained more than three.

The Long-eared Owl is one of our earliest breeders, and frequently lays its eggs, which are of a glossy white, early in March; it begins to sit with the first egg, and, from the difference of size of the young ones in the same nest, some days must intervene between the production of each egg; Mr. J. H. Tuke thinks that in some of the nests which I have mentioned there could not be less than eight or ten days difference in the age of the young ones,—a provision which will enable the old birds the more readily to supply the demands of their voracious progeny.

*RAPTORES.**STRIGIDÆ.*

## SHORT-EARED OWL.

## OTUS BRACHYOTOS.

PLATE XIV. FIG. II.

THE SHORT-EARED OWL, departing from the habits of the rest of the genus, rears its young ones on the ground; it forms, also, in its mode of breeding as it does in its flight and general appearance, one of the connecting links between the Falconidæ and the Owls. Although they for the most part go further north to breed, a few of them remain upon the moors of Northumberland, where Mr. Charlton of Hesley-side informs me he has frequently found their eggs amongst the heath in his own neighbourhood. Mr. R. R. Wingate has also met with the young ones on the same moors before they were able to fly.

The eggs, which are usually deposited with little or no nest, are from three to five in number.

The Rev. George Low, in his *Fauna Orcadensis*, says that in his time this Owl was very frequent on the hill of Hoy, where it built its nest amongst the heath, and was so impudent during the breeding-season as to take up chickens from the door, and chase pigeons in daylight. In a nest which he found were the remains of a moor-fowl and two plovers; it was placed in a large heath-bush, was made without any art, and intolerably fœtid.

*RAPTORES.**STRIGIDÆ.*

## WHITE OWL, BARN, OR SCREECH-OWL.

STRIX FLAMMEA.

PLATE XIV. FIG. III.

ALTHOUGH the White Owl breeds with the rest of the tribe early in the season, it seems in some cases to prolong the pleasures of incubation to a much longer period than is enjoyed by other birds. Mr. Blyth mentions a very curious instance of this. "A nest of the Barn Owl last summer in this neighbourhood (Tooting) contained two eggs, and when these were hatched two more were laid, which latter were probably hatched by the warmth of the young birds. A third laying took place after the latter were hatched, and the nest at last contained six young owls of three different ages, which were all reared."

This confirms the supposition which I ventured when speaking of the Long-eared Owl, that the Owls do not deposit their eggs as other birds for the most part do, in regular daily succession.

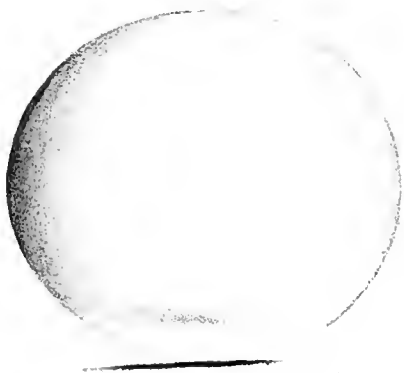
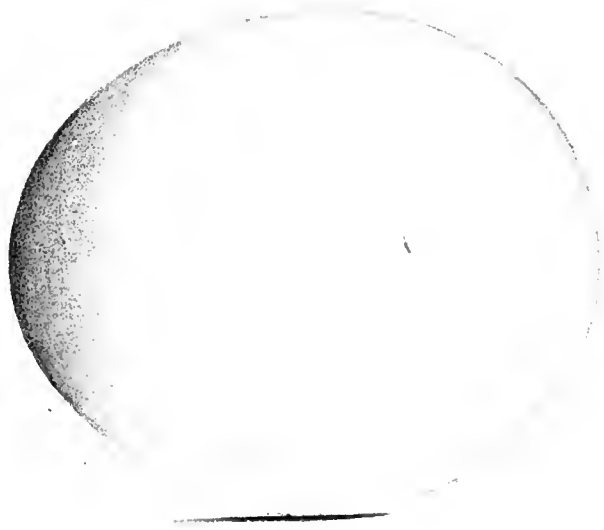
This Owl breeds in old ruins, under the eaves and in the steeples of churches—and may be found in York Minster—in deserted dove-cotes, in barns, and also in the holes of trees, and lays from three to five eggs. A nest which the Messrs. Tuke found near York contained six eggs; and it is rather curious that a nest and eggs of the starling were in the same

tree close below it. The White Owl probably lives chiefly upon mice, but is known also to destroy small birds.

The Long-eared Owl will destroy birds as large as the blackbird; how, then, can we account for the immunity of the starling.







*RAPTORES.**STRIGIDÆ.*

## TAWNY OWL, WOOD OWL.

SYRNIUM STRIDULA.

PLATE XIII. FIG. I.

THE TAWNY OWL usually lays its eggs in a hollow tree, sometimes in the holes of rocks, and occasionally in the deserted nest of some other bird; they are round, large, bright, and glossy, from three to five in number, and are deposited at irregular intervals, the first being set upon as soon as laid; the young of the same nest differ in consequence very considerably in their size.

This is the Owl from which issues forth that loud melancholy sound at night, which, however much it may be associated with goblins in the minds of others, is extremely agreeable to the ear that is fond of nature's sylvan sounds.

*RAPTORES.**STRIGIDÆ.*

## LITTLE OWL.

NOCTUA PASSERINA.

PLATE XIII. FIG. II.

So little is known regarding the habits of the three species of small Owls, which are only periodical and rare visitors to our shores, that I feel much indebted to the late Mr. Hoy for the following information regarding the present species, as well as for specimens of its eggs.

The Little Owl is, like the rest of the family, an early breeder. It not unfrequently makes its nest in the holes of trees; old ruins, however, and the towers of churches are its favourite resort. It appears to be of a quarrelsome disposition, two pairs being rarely met with as near neighbours during the breeding-season.

The eggs are usually four, sometimes five in number, and vary a little in size as well as contour.

The Little Owl makes no nest, although an accumulation of rubbish arising from its castings may be frequently found in the hole, which is often made use of for a long time previous to incubation.

In addition to the several instances of its appearance in this country, enumerated by Mr. Yarrell, I may add, on the authority of Mr. J. J. Briggs, of Melbourn, Derbyshire, that a specimen of the Little Owl was taken in that county, and exhibited alive during the last spring.

*RAPTORES.**STRIGIDÆ.*

## TENGMALM'S OWL.

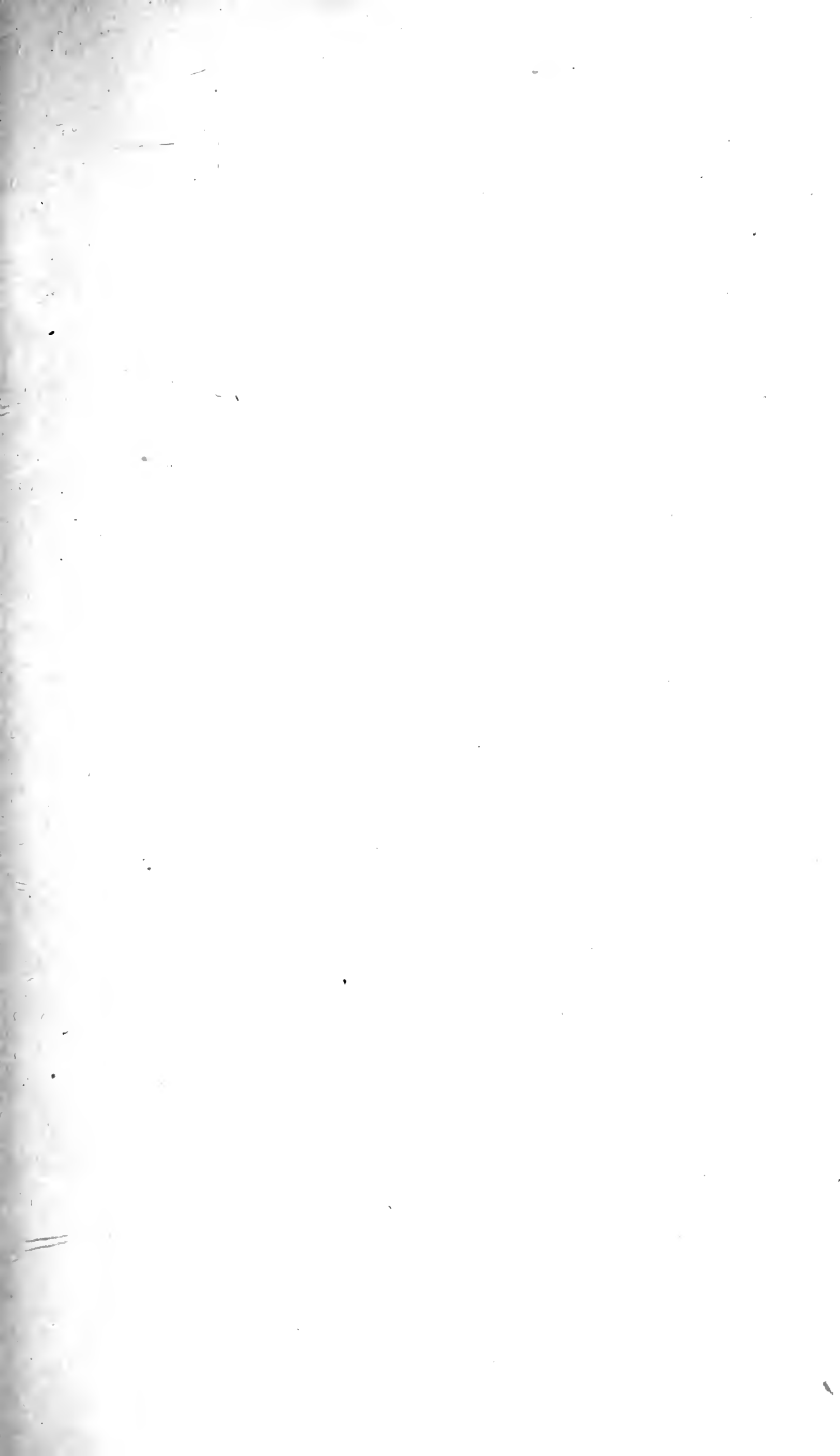
NOCTUA TENGMALMI.

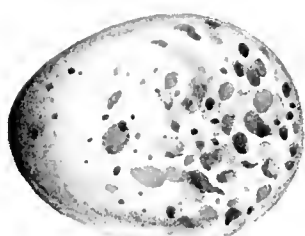
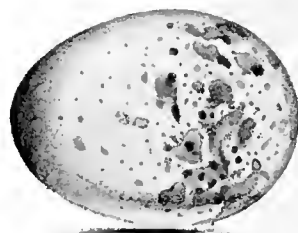
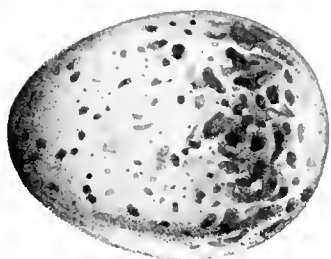
PLATE XIII. FIG. III.

WE have no satisfactory information with regard to the habits of this little Owl during the breeding-season.

It is common throughout the northern countries of Europe, inhabiting thick and extensive pine forests. In North America it has, according to Dr. Richardson, a wide range, embracing all the woody country from the Great Slave Lake to the United States. It most probably breeds like the preceding species, in the holes of trees.









*INCESSORES.*  
*DENTIROSTRES.*

*LANIADÆ.*

## GREAT GREY SHRIKE.

*LANIUS EXCUBITOR.*

PLATE XV. FIG. I.

THE eggs of the three British species of Shrike form a very beautiful and isolated group, as different from those of other birds as they are like each other.

Like our well known species the red-backed shrike, this bird makes its nest in thick bushes and high hedges; it is large, and composed of the stalks of umbelliferous plants, roots, moss, and wool, lined with finer roots and dry grass. The eggs are four or five, and it is said sometimes six or seven in number; though differing a good deal in the frequency of the spots, they still preserve more or less the constant characteristic zone. In colour they are more sombre than those of the succeeding species; and none of the specimens I have seen are ornamented with any of their rich variety of tints.

*INCESSORES.*  
*DENTIROSTRES.*

*LANIADÆ.*

## RED-BACKED SHRIKE, BUTCHER-BIRD.

*LANIUS COLLURIO.*

PLATE XV. FIGS. III. AND IV.

THE nest of the Red-backed Shrike is built in a thick thorn-hedge, or single bush; it is unusually large, and is composed of a quantity of coarse materials; the outside is formed of the stalks of umbelliferous plants, succeeded by moss and fine grass, with a small portion of wool, and is lined with slender roots, interspersed with a few hairs. The eggs are four or five in number, and are amongst the most beautiful of those of our British birds. The first figure on the right of the Plate represents the usual colouring, in which variety they closely resemble those of the other two species; the second figure is from one which I took at school, and have never since seen equalled. The zone of spots is sometimes at the narrow end of the egg.

Doubts have been expressed whether or not the Red-backed Shrike has deserved the name of *Lanius*, or butcher, which has been bestowed upon it.

I have pleasure in giving my testimony as to its well merited possession of the title. Whilst riding through one of the well fenced lanes of Suffolk I observed one of these birds, a male conspicuous from its bright plumage, busily engaged with something in the hedge, from which it seemed very reluctant to be driven by my approach. On examining

the spot I found, very much to my satisfaction, a small bird, of what species I did not at the time note, so firmly spitted on a blunt thorn that it must have required considerable force to fix it there; it was in a state of perfect nudity, every feather had been plucked from it, and its head torn off.

*INCESSORES.*  
*DENTIROSTRES.*

*LANIADÆ.*

## WOODCHAT SHRIKE.

LANIUS RUFUS.

PLATE XV. FIG. II.

NATURALISTS, especially those who take an interest in that portion of Ornithology which the present pages are intended to illustrate, have lost a most ardent and successful companion in the death of Mr. Hoy; I have greatly to regret his loss, for had he been yet living I should have been enabled, as will be seen from the frequent quotations from his information in my former work, to have given much more that would have been new and interesting during the progress of the present.

He says of the Woodchat, that "it differs from *Lanius collurio* in the choice of a situation for its nest, placing it invariably on trees, and preferring the oak. The nest is fixed in the fork of a projecting branch, and is composed on the outside of sticks and wool, mixed with white moss from the bodies of the trees, and lined with fine grass and wool. Eggs, four or five in number, rather smaller than those of the Red-backed Shrike, and varying much in markings, the ground colour being pale blue in some, in others a dirty white, surrounded near the larger end with a zone of rust-coloured spots; in some again the markings and spots are of a paler colour, and more dispersed over the egg.

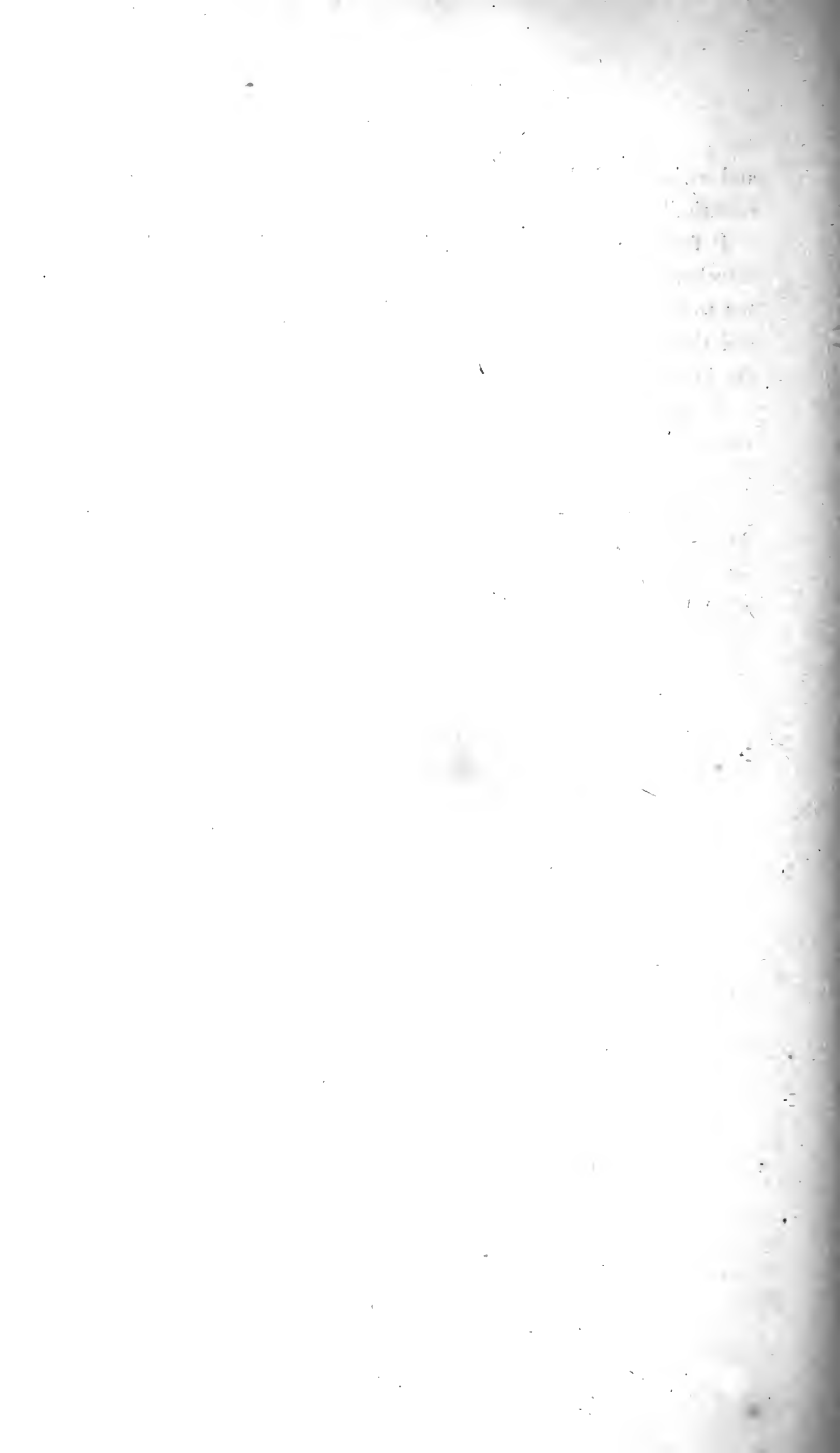
"It is not a wild bird, building close to houses and public roads. It is abundant in some parts of the Netherlands,

and arrives and departs about the same time as the *Lanius collurio*.”

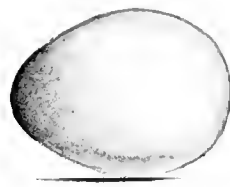
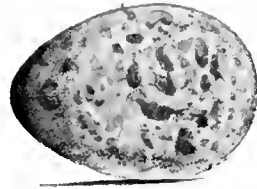
It is one of the very few birds which greet the eye of the traveller as he passes through the German States. I remember to have seen several during a ride through Wirtemberg, and the Duchy of Baden, amongst the fruit-trees which mark the line of road.

It will be seen that the egg from which the drawing is made, is rather larger than those of the *L. collurio*, but they differ a good deal in size as well as colour.

I have a remarkable variety from the collection of the Messrs. Tuke; the spots, which are large and deep in colour of brown and neutral tint, are scattered equally over the whole surface.









*INCESSORES.*  
*DENTIROSTRES.*

*MUSCICAPIDÆ.*

## SPOTTED FLYCATCHER.

*MUSCICAPA GRISOLA.*

PLATE XVI. FIG. I.

THE SPOTTED FLYCATCHER makes its nest about the beginning of June ; it is built in the hole of a wall, or of a decayed tree stump, on the low branches, and amongst the exposed roots of trees which overhang a stream of water, and upon the boughs of wall fruit-trees ; these are its most usual and natural places of resort, but there is scarcely any place so whimsical as not to be chosen by it for the position of its nest ; it has been twice detected breeding on the lamp posts in the crowded streets ; one of these instances is mentioned by Mr. Jesse, in his “Gleanings of Natural History.”

The nest is formed of small twigs, roots, and moss, interwoven with spiders' webs, and is lined with hair and feathers.

The eggs are four or five in number, and are not subject to much variety in colour ; in form they are sometimes longer and more pointed than the plate.

*INCESSORES.*  
*DENTIROSTRES.*

*MUSCICAPIDÆ.*

## PIED FLYCATCHER.

*MUSCICAPA ATRICAPILLA.*

PLATE XVI. FIG. II.

ALTHOUGH a few stragglers have been met with in various parts of England, (Bewick mentions a nest which was found in Axwell Park, near Newcastle-upon-Tyne; and Bolton found some in the West Riding of Yorkshire,) Westmoreland and Cumberland are the favourite resorts of this species, and especially that portion of them which forms the choicest of England's scenery, the lake district. Here, also, it is quite local, and though I have seen it in plenty in the woods which form the beautiful banks of the rivers Eamont and Lowther, and upon the Eden at Edenhall, yet during a walk through the lake district it never appeared again, except upon the borders of Ullswater.

To a friend and schoolfellow, Mr. John Gibson, who resided at Tyrril, near Penrith, and for some years observed the habits of this bird, I am indebted for the following information, accompanied with the nests and eggs.

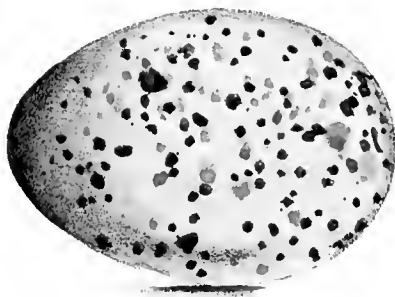
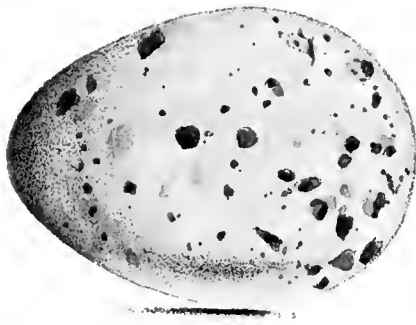
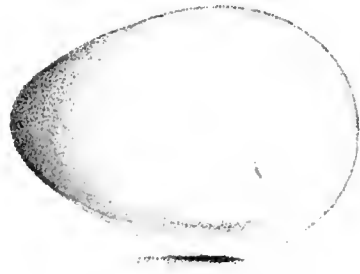
The Pied Flycatcher builds its nest about the end of May, or beginning of June, in the holes of trees, walls, and bridges, and appears particularly partial to the neighbourhood of a stream of water. The hole chosen is generally too small to admit the hand, and the nest rarely at the depth of more than four or five inches; it is slight, and composed of small quantities of dried grass and straws, lined with very fine grass

and hairs, with occasionally a few dead leaves. It usually lays from four to six eggs, but Mr. Heysham, who meets with them near Carlisle, and has published some interesting papers relative to their nidification, &c., informs me that the Pied Flycatcher frequently lays seven or eight eggs, several instances of each having come under his observation during the spring of 1831, that the eggs also differ considerably in size and conformation, those contained in one nest that he took being unusually small, nearly oval, and almost white; he has found the nest two successive years in the stump of a felled tree.



perquins eggs are got  
at Dassen Island they  
abound on countless  
myriads to be had  
on the 20. February  
about a days sail  
from Cape Town  
Cape of Good Hope  
they are also to be had  
at Tristan da Cunha  
1500 miles from any  
Land

there is scarcely any difference  
between the marking on the eggs  
of the yellow breasted and Blue  
Burdock



*INCESSORES.*  
*DENTIROSTRES.*

*MERULIDÆ.*

## COMMON DIPPER, WATER OUZEL.

*CINCLUS AQUATICUS.*

PLATE XVII. FIG. I.

IN its nidification, as well as its general appearance, the Water Ouzel closely resembles our common wren. It is an active and lively little bird, and seems to attach itself to those mountain streams, the currents of which are rapid and often broken; there it may be seen, either flying past you with great rapidity, or seated upon some stone in the middle of the stream, warbling its sweet notes, when all around it is cold and ice-bound. It begins to prepare its nest early in April; it is, as before mentioned, very similar to that of the common wren; like it, it is composed of an abundance of moss, thickly and compactly woven together, and threaded through here and there by a few straws to give it greater strength; it is covered with a dome, leaving merely the small hole of entrance for the bird. This little doorway is, too, as I have seldom failed to notice in the nest of the wren, neatly smoothed down and kept straight and even, for the reception of the bird's feet in passing in and out, by a few strong grass stalks; it is not so deep inside as other nests of a similar formation, being very thickly lined with a large quantity of dead leaves of the beech and oak, but chiefly of the latter, with a few straws and flags; it is placed, for the most part, either against the bank of a river, or the moss-grown surface of a rock.

My friend Mr. Benjamin Johnson has known of a nest of

this bird for many years in succession, which was built upon the rafters in one of the salmon fish-lochs upon the river Tyne. The eggs are four or five in number, white when blown, but of a delicate pink when the yolk is yet in them.

Once, when in company with Mr. George Selby, in the beautiful grounds of Twizell, we surprised a nest full of young Dippers, which, though scarcely able to fly, instantly scrambled into the water, down the stream of which they were hurried with such rapidity that I supposed it impossible that any of them could have escaped destruction; they did so, however, and landed safely far below.



*INCESSORES.*  
*DENTIROSTRES.*

*MERULIDÆ.*

## MISSEL THRUSH.

*TURDUS VISCIVORUS.*

PLATE XVII. FIG. II. AND III.

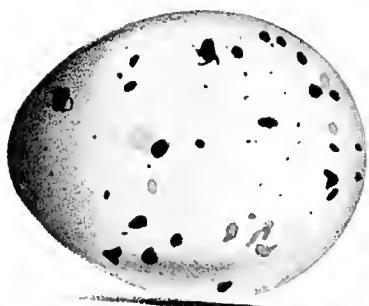
THE MISSEL THRUSH, at all other times a very shy and wary bird, seen only at a distance, or heard pouring forth its peculiarly wild, full note from the top of some high tree, becoming quite familiar in the spring, approaches our orchards and gardens, making its nest, which resembles that of the blackbird, about the middle of March, in fruit-trees, generally at the first divarication of the branches; it builds also, perhaps as frequently, in plantations; in firs, oaks, &c., ten or fifteen feet above the ground. I know of no bird that seems at times to have so little idea of concealing its nest as the Missel Thrush; it is sometimes scarcely possible to pass by it without discovery. It is formed of large quantities of straw, matting, stolen from the garden, wool, and grass, which are frequently left dangling down on all sides, as though the nest had been torn to pieces; a little moss is sometimes used; it is then cemented with mud, and afterwards lined with fine dry grass. I have seen a nest of this bird the foundation of which was mud, strongly cemented to, and nearly encircling the branches between which it was placed.

The female lays four or five eggs, differing a good deal in size as well as in the ground colour, which varies from a greenish to a reddish tint.

These birds are both noisy and pugnacious during the season of incubation; they will then unhesitatingly attack any other bird which comes into the vicinity of their nest.







INCESSORES.  
DENTIROSTRES.

MERULIDÆ.

## FIELDFARE.

TURDUS PILARIS.

PLATE XVIII. FIG. I.

LIVING in a town which had fostered the existing taste for ornithology, and spread it widely through our native land by the immortal birds of Bewick, we had for long felt dissatisfied at the slow progress which was making in a knowledge of their nidification and their eggs.

In the hope of satisfying some of our own cravings, and more still of giving an impulse to one of our favourite pursuits, two bird-nesting expeditions to the north of Europe, planned during the winter of 1822, were successfully accomplished during the succeeding summer, one by Mr. G. C. Atkinson to the Feroe Isles and Iceland, of which I shall have to speak when we reach the water-birds, the other to the coast of Norway, by my friends John Hancock, B. Johnson, and myself. Intending that the Fieldfare should be our *avant* courier to its native land, it was with peculiar interest that we watched its long lingering in our own, for weeks after our blackbirds and thrushes had commenced their nidification. It was not until the end of April that the last of them took their departure from our neighbourhood.

In a few days afterwards, on the 14th of May, our first day in Norway, we enjoyed the pleasure of again seeing them in their own wild native woods, engaged so early after their arrival, in all the bustle of preparation for the production of

other colonies, to visit us in future years. We had been out all day, rambling through those almost impassable forests, and after having climbed many a tree to no purpose, to nests of the previous summer, which we supposed must have once been tenanted by the birds of which we were in search, were returning home weary and disappointed, when suddenly the monotonous silence of the woods was broken by the loud harsh cries of a colony of Fieldfares, which, alarmed at our approach, were anxiously watching over their newly-established dwellings. We very soon forgot our toils in the delight which we experienced at the discovery of several of their nests, and were surprised to find them so contrary to the habits of the rest of the genus with which we are acquainted, breeding in society. Their nests were at various heights above the ground, from four to thirty or forty feet or upwards, and mixed with old ones of the preceding summer; they were for the most part placed against the trunk of the spruce fir-tree; some were, however, at a considerable distance from it, towards the smaller end of the thicker branches. They resemble most nearly those of the ring ouzel; the outside is composed of sticks and coarse grass, and weeds, gathered wet, matted together with a small quantity of clay, and lined with a thick bed of fine dry grass; none of them yet contained more than three eggs, although we afterwards found that five was more commonly the number than four, and that even six was very frequent; they are very similar to those of the blackbird, and even more so to those of the ring ouzel and the redwing; indeed so closely do the eggs of the four species resemble each other, that a drawing of one might apply to all. The Fieldfare is the most abundant bird in Norway, and is generally diffused over that part of the country which we visited, from Drontheim to the Arctic Circle. It builds, as before stated, in society. Two hundred nests or upwards may be found within a small circuit of the forest.

*INCESSORES.*  
*DENTIROSTRES.*

*MERULIDÆ.*

## SONG THRUSH.

*TURDUS MUSICUS.*

PLATE XVIII. FIG. II.

THE nest of the Thrush is composed of moss and dry grass, with the addition of a few sticks, straw, and roots, cemented together in the inside by a composition of clay and rotten wood.

Nearly all our writers on the subject state, that the nest of the Thrush is plastered with cow-dung; I am very much inclined to think that they are mistaken, and that if the material is ever used, it is in rare instances only. Amongst a large number of the nests which I have examined, when the plaster was yet freshly spread, there did not appear to be anything besides clay, in which was mixed up small bits of rotten wood, forming together, when dry, a composition which in many instances is completely water-tight. When the spring has been a wet one I have frequently found the newly-finished nests half full of water, either causing their abandonment by the birds, or delaying them some days from laying their eggs.

In a few nests, I have noticed, were particles of reeds and thistle-down, mixed with the clay instead of rotten wood.

The Thrush breeds early in April, laying four, or sometimes five eggs; they are mostly spotted with deep black, rarely with reddish or purplish brown.

In Westmoreland, where a party of my schoolfellows and

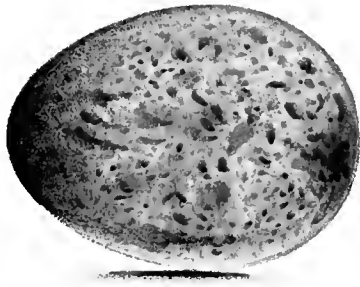
myself spent all our play hours in hunting birds' nests, each of us being on the alert, and anxious to find the first of the season; we never met with the eggs of the Thrush earlier than the beginning of April, and for several years the first nest and eggs were taken between the 5th and 8th of the month, from which time, till the middle of June, we continued to find one occasionally with eggs yet unhatched.

The situation in which we used to find them varied much. Thick thorn or holly bushes, tall furze or brambles, the top of a dead stake-fence, or amongst the exposed roots of trees on a bank side; they are also frequently built in gardens on fruit-trees against a wall.

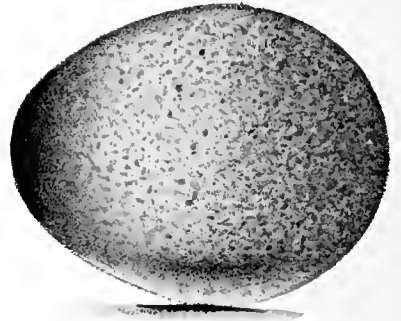




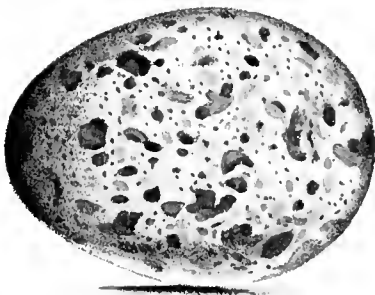
I



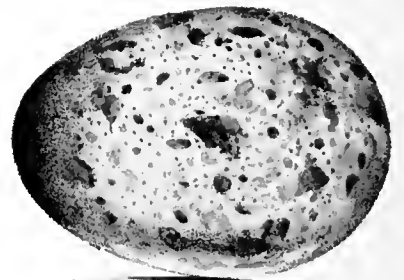
III



II



IV



*INCESSORES.*  
*DENTIROSTRES.*

*MERULIDÆ.*

## REDWING.

*TURDUS ILIACUS.*

PLATE XIX. FIG. I.

IN our long rambles through the boundless forest scenery of Norway, or during our visits to some of its thousand isles, whether by night or by day, the loud, wild, and most delicious song of the Redwing seldom failed to cheer us.

Unlike its neighbour the fieldfare, it was solitary and shy, and on our approach to the tree on the top of which it was perched, would drop down and hide itself in the thick of the brushwood.

Throughout that part of the country which we visited it is known by the name of nightingale, and well it deserves to be so; to a sweeter songster I have never listened. Like the nightingale of more southern skies, its clear sweet song would occasionally delight us during the hours of night, if the two or three delightful hours of twilight which succeed the long day of a Norwegian summer can be called night. The birds, like the other inhabitants of the country, seem loath to lose in sleep a portion of this short-lived season.

Anxious to extend our researches onwards, in the hope that as we proceeded north we should prove more successful, we had lingered but little to search for the nest and eggs of the Redwing, and our inquiries with regard to them had been unavailing.

One afternoon, as we approached the sea-coast, and at the

same time the northern limit of a beaten road, we discovered a nest of the Redwing, but to our great disappointment it had young ones. Having almost reached the boundary of our woodland rambles for the present, we spent the whole of the following day in exploring the beautiful woods by which we were on all sides surrounded. We found a second nest of the Redwing, but the eggs were again hatched. It was here, too, that we saw the brambling, accompanied by its full grown young ones.

The nest of the Redwing is placed, like those of the thrush and blackbird, in the centre of a thorn or other thick bush. It is similar to those of the blackbird, fieldfare, and ring ouzel. Outwardly, it is formed of moss, roots, and dry grass; inwardly, cemented with clay, and again lined with finer grass.

Several of the eggs were brought home by Mr. Dann; some of these are in the collection of Mr. Yarrell, and are similar to those which I have drawn from that of the Messrs. Tuke.

As will be seen by the Plate, they are somewhat less than the eggs of the fieldfare, but in other respects are perfectly similar, as well as to those of the blackbird and ring ouzel; indeed we have no other genus of birds in which the eggs of several species are so much alike.

*INCESSORES.*  
*DENTIROSTRES.*

*MERULIDÆ.*

## BLACKBIRD.

### TURDUS MERULA.

PLATE XIX. FIGS. III. AND IV.

IN its time of incubation, and in the position of its nest, the Blackbird differs very slightly from the thrush.

The nest, which is sometimes very much exposed, may be met with in thorn hedges, or single bushes, and in evergreens, occasionally on the top of a naked stake fence, on the summit of a wall, or in a heap of dead sticks. I have seen it within a few inches of the ground, on the stump of a felled tree.

It is formed chiefly of grass, with a few dry sticks, roots, and dead leaves, cemented together with mud, which it uses in much greater quantity than the thrush, and is then lined with fine dry grass.

The eggs, which are four or five in number, vary much.

The first figure, from a larger egg than common, represents the usual colouring; the second, a rare variety, much resembling eggs of the ring ouzel; a variety similar to the last, except that the ground colour is lighter, and the spots smaller, is not unfrequent. I have a beautiful egg of this species, of a clear spotless light blue, with the whole of the larger end suffused with reddish-brown; my friend, Mr. Henry Doubleday, found several nests of the Blackbird in Epping Forest,

the eggs of which were of the fine blue of the thrush, and without spot.

The eggs of the Blackbird are frequently of an oval form, the smaller end being rounded and obtuse, a character which I have not noticed in the allied species.

*INCESSORES.*  
*DENTIROSTRES.*

*MERULIDÆ.*

## RING OUZEL.

*TURDUS TORQUATUS.*

PLATE XIX. FIG. II.

THE RING OUZEL is rather a local bird, and is much more abundant in the north than in the south of England. It is seldom seen except in the wild mountain districts, which are its favourite haunts. It breeds in several parts of Northumberland, and the wilder portions of Derbyshire; and is abundant on some of the Yorkshire moors, especially about Halifax.

It builds its nest upon the ledges of the picturesque gray rocks, which are the peculiar feature of these mountain districts. It is very similar to that of the blackbird, and is outwardly composed of pieces of heather and coarse grass, with a slight layer of clay, and thickly lined with dry fine grass. It is frequently roofed over by a projecting ledge of rock, or a bunch of heather.

The eggs are four or five in number; they are more like those of the fieldfare and ring ouzel than those of the blackbird; the common closely freckled egg of which they very rarely resemble. They are frequently more closely freckled than the Plate, and in some of their varieties resemble the figure of the egg of the fieldfare.









*INCESSORES.*  
*DENTIROSTRES.*

*MERULIDÆ.*

## GOLDEN ORIOLE.

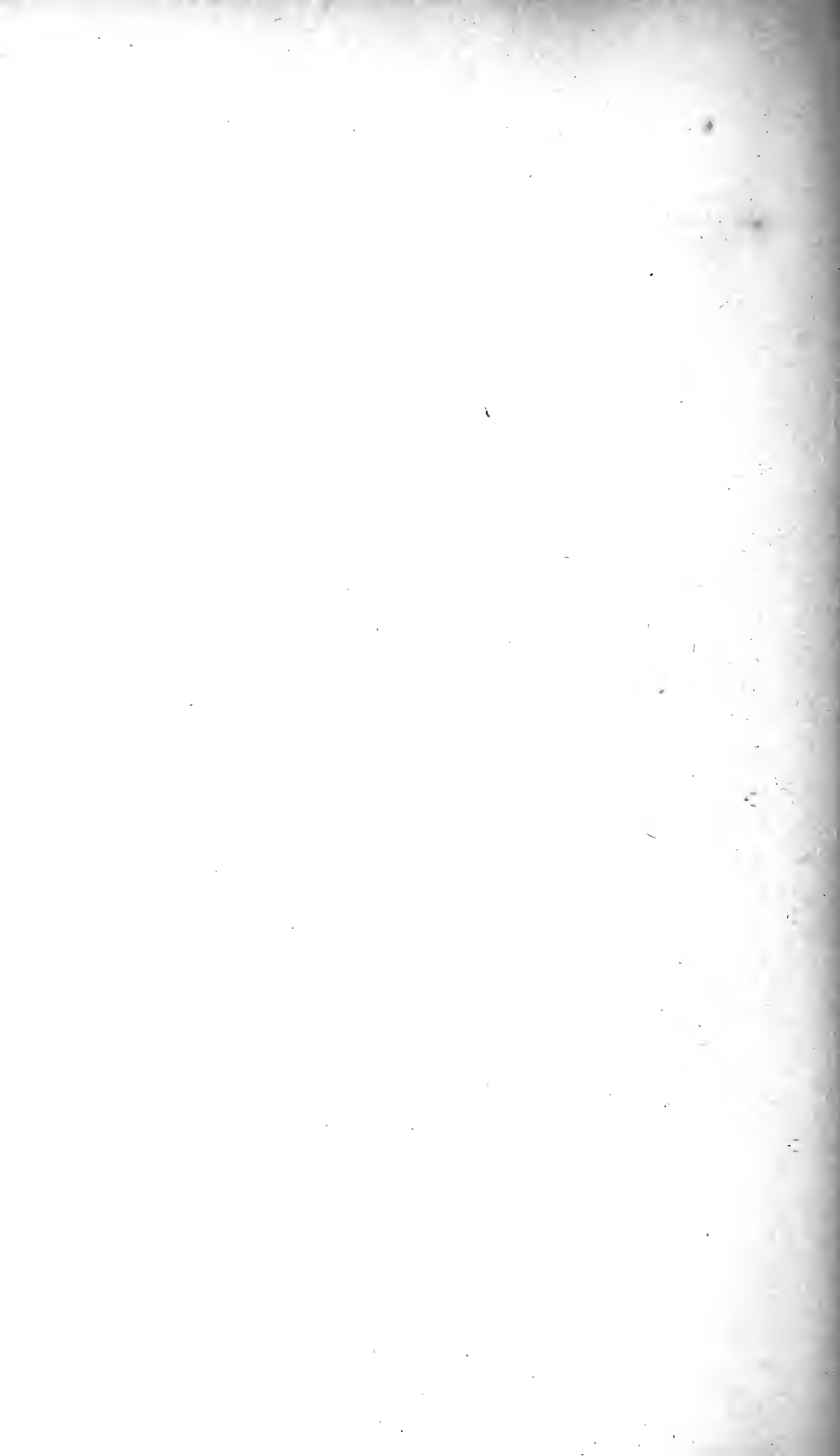
*ORIOLOUS GALBULA.*

PLATE XX.

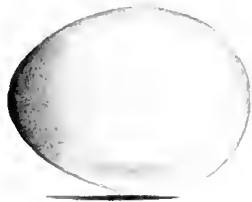
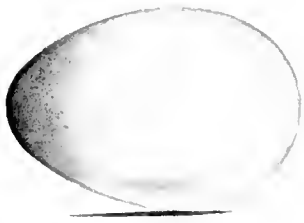
THE GOLDEN ORIOLE, though quite a rare visitor in this country, is rather common in Italy and the south of France. In Germany, at least that part of it which I have visited, it is rare. Once only whilst wandering through the forests of Bavaria, its bright tropical colours caught my eye.

Mr. Meyer has figured a nest of this bird, said to have been taken in Suffolk. Mr. Yarrell has also had a drawing made for his *Birds* from one in the collection of the Zoological Society.

The Golden Oriole generally builds in high trees, but places its nest in a low part of the tree, upon the forked extremity of a horizontal branch. It is composed of dry grass, roots, and wool, lined with similar materials of a finer texture.







*INCESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

## ALPINE ACCENTOR.

*ACCENTOR ALPINUS.*

PLATE XXI. FIG. I.

THIS species, as its name implies, is an inhabitant of Alpine countries. It is met with in the mountainous regions of Europe, and especially of those districts which are of a rugged and rocky character. Mr. Selby says that "it is very common upon the Swiss Alps, and may be always seen by travellers in the environs of the convent upon Mount St. Bernard. In summer it ascends to very elevated stations, where it breeds in holes and under ledges of the rocks." Its nest is composed, like that of the hedge-sparrow, of moss, dry grass, and wool, lined with hairs. The eggs are four or five in number, and, like those of the allied species, of a beautiful spotless blue, but rather more intense in their colouring.

*INCESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## HEDGE ACCENTOR, HEDGE SPARROW.

## ACCENTOR MODULARIS.

PLATE XXI. FIG. II.

THIS gentle, unobtrusive little bird, though neither brilliant in plumage nor yet in song, has many claims upon our regards. There is no other species of bird, with the exception of the house sparrow, which is so much in our immediate neighbourhood the year round; and in the winter, when all the rest have become mute except the robin and the wren, it ceases not to utter its monotonous, though agreeable notes.

Every one must remember the bright blue egg which first caught his boyish fancy, and the pleasure he has derived from its discovery and possession.

The Hedge Sparrow is one of our earliest breeders, and begins to lay its eggs in March or the beginning of April.

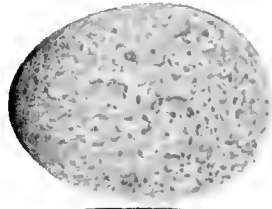
The nest is usually placed in a garden or orchard fence, or that of the field adjoining, or in some bush in the garden; sometimes in a furze-bush, or in ivy against a wall. I do not remember to have ever found one except near to some habitation.

The nest is composed of pieces of stick, coarse grass, moss, and bits of wool, and is lined with hair. Sometimes the nest is built almost entirely of dry grass.

In two instances I have seen the nest of this bird so imperfectly finished that the thorns were sticking through the inside, apparently very much to the discomfort of the old bird. The eggs are four or five in number.







*INCESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## ROBIN REDBREAST.

ERYTHACA RUBECULA.

PLATE XXII.

IN the springtide and summer of the year, when his sweet and cheerful notes are superseded by the loud carols of a thousand minstrels from abroad, the Robin is busy making his nest and rearing his young ones, away in the shady woods and green lanes of the country; when, however, the sunny summertide is gone, and the silent groves have been decked in all the gorgeous colouring of autumn, when the leaves, so lately green, are strewed around us by the drifting winds of November, then it is that our constant and familiar friend comes near our dwelling, cheering us at the earliest dawn of morning with his plaintive music, and again at eve till the last departing gleams of day have given place to the gloomy shadows of the night.

If the weather remains mild and open, and worms are to be had, we see little of him except when he comes to chant his morning and evening greeting under our window.

Should the severity of the frost, or the pitiless snow storm deprive him of his daily food, we begin to feel an interest in his fate, and the beautiful language of Burns occurs to our recollection :

Ilk happing bird, wee, helpless thing,  
 That in the merry months o' spring,  
 Delighted me to hear thee sing,  
   What comes o' thee?  
 Whare wilt thou cow'r thy chattering wing  
   An close thy e'e?

Then it is, that this dear pet of our childhood, presuming upon the kindness with which his race has ever been treated, will alight upon our threshold, and becoming more familiar each day, may be persuaded to pick the crumbs from our table, and even to become a cherished inmate of our dwellings.

“ Half afraid, he first  
Against the window beats ; then brisk alights  
On the warm hearth ; then hopping o'er the floor,  
Eyes all the smiling family askance,  
And pecks, and starts, and wonders where he is ;  
Till more familiar grown, the table crumbs  
Attract his slender feet.”

Amongst the oft-recurring memories of the past, there are few that come to my recollection with more undiminished enjoyment than the events of a severe winter.

Myself, and a brother who is now no more, were then learning our ornithological alphabet, and imbibing our first taste for natural history from the works of Bewick, one of the truest naturalists that our country has ever seen. Outside our window was a wide ledge, which being kept thickly strewn with bread crumbs, attracted a constant succession of visitors, which we had no difficulty in identifying with the beautiful fac-similies before us ; and such was the pinching influence of the cold, that at one time we had even rooks among the rest ; but of them all none was so welcome as the Robin, and great indeed was our delight when we succeeded in inducing one to take up his quarters with us for the night.

He would return every evening as regularly as the decline of day, and not only stayed with us the whole of that winter, roosting on one of the bell-wires, but continued to do so for some succeeding years, till, upon our being sent to school, our playfellow was forgotten.

It is, however, singular that several years after this a Red-breast—it may have been the same one—used to spend its

winter nights in my father's bed-room, when he was much interested by watching it and another, its companion, which would come at times to the window, to join it when liberated in the morning.

When engaged in railway surveys during the winter I have known the Robin come without fear of harm, to beg a crumb from the dinners of our workmen, and eat it off their hands.

The nest of the Robin is composed of moss, dried grass, and dead leaves, lined with hair, and sometimes a few feathers; its natural position is a hollow in the side of a woody bank, or of a country lane, where it is sheltered by the overhanging brushwood; it is not unfrequently found in the hole of an old ruin or garden wall; and may be met with in as many whimsical positions as the nest of the spotted fly-catcher.

Mr. Selby mentions having known several instances in which it occupied the inside of a watering-pot, and Mr. Blackwell describes one which was built in the side of a saw-pit, where people were at work.

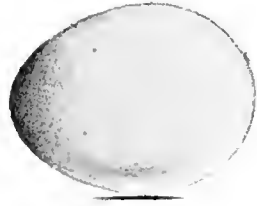
Although I have stated that the Robins betake themselves to the country to spend the joyous months of summer, many of them remain near us. Mr. J. H. Tuke informs me that they had no less than four nests of this species in their garden in York, during the last summer. They had placed flower-pots for the purpose in different parts of the garden, and had the pleasure of seeing four of them occupied, each by the nest of a different pair of Robins.

A pair of Redbreasts had their nest in some ivy against a garden wall near Newcastle, which the owner was about to remove, but being unwilling to disturb its tenants, he took the nest and eggs, and placing them in a neighbouring bush, had the satisfaction of seeing the old bird again re-seated on her eggs.

The eggs are mostly four or five, sometimes six, and even seven in number; they differ a good deal in colouring, some are almost, some perfectly white, others are sparingly but distinctly spotted, and resemble eggs of the green linnet, whilst the majority are like the first figure of the Plate.



XXIII





*INCESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## BLUE-THROATED WARBLER.

PHŒNICURA SUECICA.

PLATE XXIII. FIG. I.

Two specimens only of this beautiful bird have yet been killed in this country, one of which was shot upon the town moor of Newcastle-upon-Tyne, and is now in the Museum belonging to that town.

The only account which we have of the habits and nidification of this species, is the following, which is given by Mr. Yarrell, from the pen of the late Mr. J. D. Hoy, his observations being made during a bird-nesting visit to the continent.

“This bird makes its appearance early in spring, preceding that of the nightingale by ten or twelve days. I have always found this species during the breeding-season in low swampy grounds, on the woody borders of boggy heaths, and on the banks of streams running through wet springy meadows, where there is abundance of alder and willow underwood.

“The nest is placed on the ground amongst plants of the bog myrtle, in places overgrown with coarse grass, on the sides of sloping banks, in the bottom of stubs of scrubby brushwood in wet situations. It is well concealed, and difficult to discover. I do not believe they ever build in holes of trees.

“The nest is composed, on the outside of dead grass and a little moss, and lined with finer grass. The eggs, from four to six in number.”

Acerbi mentions his having found several nests and eggs of this bird on the banks of the river Jeres, at the head of the Gulf of Bothnia. It is also an inhabitant of some parts of Norway. In that portion of the country which we visited it is rare, and only once afforded us an opportunity of seeing it, and then under circumstances which I can never think of without feelings of extreme pleasure. We were descending the steep and woody sides of one of the numerous islands with which the Norwegian coast is so thickly studded. It was after midnight, and the sun, which we had just seen set in glory above the horizon, was now with its rising beams diffusing an additional warmth over the face of nature, and adding a lustre to every beautiful and magnificent object around us; Nature, which during the short delicious summer of these regions seems scarcely to allow time for slumber or repose, was thus early in activity. The bees came humming past us, and a Blue-throated Warbler, which was in motion amongst the low brushwood, arrested our progress.

Although classed with the redstarts, in the little we saw of its habits, this species seemed much more to resemble the birds of the genus *Curruca*, in its hiding skulking manner.

*INCESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

## REDSTART, REDTAIL, FIRETAIL.

*PHÆNICURA RUTICILLA.*

PLATE XXIII. FIG. II.

THE REDSTART is amongst the most familiar of our summer visitors, frequenting our towns and villages, and building its nest in a hole in the garden wall, or the hollow of some tree.

There its oft-repeated and monotonous note may be heard throughout the day, uttered sometimes in a tone of so much apparent anxiety and distress, that one is led to expect some enemy prowling near, and such is too frequently the case; numerous are the broods of this and other species of our friends, which fall an easy prey to the numerous cats that are ever on the watch.

The nest of the Redstart is formed chiefly of moss and dry grass, lined with hair and feathers. Two nests sent me by my friend the Rev. W. D. Fox, differ so much that I will describe them separately. One, taken from a hole in a tree, was formed of moss, grass, and a few dry leaves, lined with a quantity of wool, mixed with fine grass and hair. The other, from a wall, was chiefly of dry grass, moss, and wool, with finer grasses and hair towards the inside, and lined with a profusion of white feathers.

The eggs, which are from five to eight in number, are smaller than those of the hedge sparrow, of a more slender and delicate form, and usually of a lighter blue.

*INCESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

## BLACK REDSTART.

*PHÆNICURA TITHYS.*

PLATE XXIII. FIG. III.

IN its habits and the position and materials of its nest, this species very closely resembles the Common Redstart.

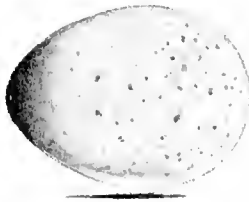
When at Kissingen in Bavaria I used to watch several of these birds, which had their nests in buildings in the environs of the town. It was towards the end of June when they had all young ones. Two pair of these had their nests in the walls of a salt manufactory, a shed of great length for the purpose of evaporating salt water.

The nests were composed of moss, dry grass, and wool, lined with hair and feathers.

Mr. W. R. Fisher, of Yarmouth, has kindly sent me the following memorandum relative to the Black Redstart:—“ I took the nest of this bird in Germany. It contained six eggs, which at first, from the transparency of the shell, were of a pink colour, but when blown, quite white. The nest was placed in the angle formed by two cross beams in the roof of an inhabited house, and was chiefly composed of worsted yarn, a quantity of which I found lying near the spot; I observed that the bird remained all the winter, and have since been told that it returns annually to the same place to breed.”

The Black Redstart lays five or six eggs, which, when blown, are of a purer white than those of any other bird which I have seen.





*INCESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## STONECHAT.

SAXICOLA RUBICOLA.

PLATE XXIV. FIG. I.

THE STONECHAT is much less common than either of the succeeding species ; it breeds too in places less frequented, on furze-covered commons and heaths. The nest is placed on the ground, at the bottom of a furze or stunted thorn-bush, or amongst the heather ; it is composed principally of grass, with a small quantity of moss, hair, and a few feathers loosely put together ; the eggs are five, or more commonly six in number, sometimes, though rarely, seven ; they are readily distinguished from the spotted variety of the eggs of the whinchat, being much less blue, and more closely freckled throughout with light reddish-brown. The Stonechat breeds in May or June ; it is, however, very difficult to mention any particular date for the time of nidification of our smaller birds, as individuals of the same species are frequently building their nests, laying their eggs, sitting them, or feeding their young ones at the same time.

*INCESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

## WHINCHAT, GRASSCHAT.

*SAXICOLA RUBETRA.*

PLATE XXIV. FIG. II.

THE WHINCHAT is not, as its name might imply, so entirely an inhabitant of those furze-covered hedgeless districts, as the other two species of *Saxicola*. In one of the rich grassy vales of Westmoreland where I was at school it was abundant, and there the name of Grasschat, by which we used to know it, was suited to the nature of the country round.

They were so plentiful, that any evening on which we bent our bird-nesting rambles to the inclosures, we were usually successful in finding two or three of their nests. These were either placed in a tuft of grass in a rough pasture field, or amongst the thick grass of the meadows, which, at this time of the year, May or June, was long and fit for cutting, and I have often since wondered at the good nature of the farmers who suffered us thus to roam unmolested amongst their crops.

The furzy common is, however, perhaps the most favourite resort of this species, where it places its nest, like that of the stonechat, at the foot of a furze or stunted thorn-bush, or amongst the heath; sometimes, though rarely, it is placed in the centre of a piece of thick furze, a few inches above the ground.

The nest is composed outwardly of the stalks of plants and



dry grass, with a small portion of moss, and is lined with finer grass ; like the nests of most birds that build upon the ground, it is very slightly woven together, and is not easily brought away whole.

The eggs, which nearly all of our ornithologists have described as of a spotless blue, are quite as frequently very finely dotted, and sometimes, though very rarely, distinctly spotted with rust colour ; they are almost invariably six in number.

*INCESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## WHEATEAR, WHITE-RUMP.

SAXICOLA ŒNANTHE.

PLATE XXIV. FIG. III.

THE WHEATEAR frequents open downs and commons, making its nest in the stone walls or turf dykes, by which they are intersected. Mr. Knapp informs me that they frequently make their entrance by a hole at a considerable distance from the nest, passing to it through the interstices between the stones; and that he had in consequence greater difficulty in procuring the eggs of the Wheatear than those of almost any other bird in his own neighbourhood; and was not successful till he had offered a premium for them amongst the boys of his parish.

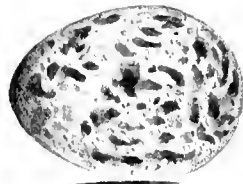
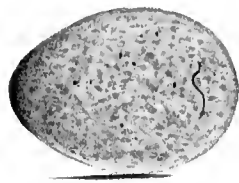
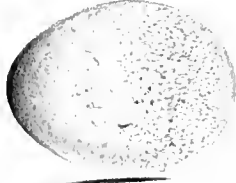
Mr. Yarrell, quoting the information of Mr. Salmon, states that the Wheatear is very abundant in the warrens of Norfolk and Suffolk, and usually selects a deserted rabbit-burrow, in which it places its nest at some little distance from the entrance.

It will also make its nest in the side of a stone quarry or gravel-pit, or upon the ground under the shelter of a stone or clod of earth. I have found it also in the sand-bank of a river, at the mouth of a hole perforated by the sand-martin.

It is made of the finest dry grasses, mixed throughout with small pieces of wool or moss, feathers and hair, the outside being nearly as fine as the lining. The eggs are five or six in number, and very elegantly formed.







The Egg of the Grasshopper Warbler, Plate XXV. is too much tinted with red.



1870  
1871  
1872



*INSESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## GRASSHOPPER WARBLER.

SALICARIA LOCUSTELLA.

PLATE XXV. FIG. I.

THE very shy and skulking nature of this species have always made it difficult to become familiarly acquainted with its habits, and still more so to obtain its nest and eggs; the first that I ever saw was in the collection of Mr. Wingate, of Newcastle, who is well known in the north of England for his life-like manner of mounting birds. I quote his account of its discovery from the pages of Bewick's Birds. He says, that "having long wished to get the egg of this bird to add to his curious collection, he at length, in June 1815, after much watching, succeeded in eyeing it to the distant passage on the top of a whin-bush, by which it entered and left its nest. Its curious habitation he found was built at the bottom of a deep narrow furrow, or ditch, overhung by the prickly branches of the whin, and grown over with thick coarse grass, matted together, year after year, to the height of about two feet. Before he could find the object of his pursuit he searched until he was wearied, and at length found that there was no other place left but that of taking away the grass by piece-meal, which he was obliged to do before he could obtain the prize."

The nest of the Grasshopper Warbler is composed of a large quantity of grass, so loosely put together that those which I have seen could have occupied no other situation

than the ground. Mr. Bolton, however, mentions having found one in a low willow. The eggs are five or six in number, Mr. Yarrell says, sometimes seven; they rarely vary so much as to render their identity at all doubtful.

In the collection of Mr. Knapp are two specimens, which are more remote from the usual appearance than any I have seen; the minute dots which are usually thickly sprinkled over the whole surface of the egg, are in these examples concentrated, so as to form a distinct ring round the larger end. Another variety, in the collection of the Messrs. Tuke, has the ground-colour of a pure white.

I once had a nest of this species brought to me, which contained seven eggs, one of which belonged to the cuckoo.

*INSESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## SEDGE WARBLER.

*SALICARIA PHRAGMITIS.*

PLATE XXV. FIG. II.

THE nest of the Sedge Warbler, though it bears considerable resemblance to that of the following species, is evidently intended for a situation less under the influence of every passing breeze; it is neither so deep—though much more so than the nests of most other birds,—nor yet so beautifully light. The nests of this species vary much in the neatness of their construction; some are compact and strong, and like those of the genus *Curruca*, formed of umbelliferous plants, with a few grasses, and a little moss; others contain a much larger proportion of the softer materials, and are fragile, and easily fall to pieces. All that I have seen were lined with the fine tops of umbelliferous plants, and flowering grasses, divested of their seed, with, at times, a small portion of wool, hair, or the soft downy substance of thistles, and other plants. They may occasionally be found, like those of the reed-warbler, amongst reeds,—the *Arundo phragmites*,—from which the bird derives its name, but in a less elevated position; sometimes amongst rushes; and at other times in a low bush, or amongst the many kinds of tangled brushwood which constitute a hedge bottom. The eggs are four or five, and usually closely freckled all over, and resembling those of the yellow wagtail; sometimes of a uniform dirty yellow. Mr. Heysham mentions a nest in which three of the eggs were perfectly white.

*INSESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

## REED WARBLER.

*SALICARIA ARUNDINACEA.*

PLATE XXV. FIG. III.

THE nest of the Reed Warbler is one of the most beautiful of those of our British Birds, and reminds one when looking at it, of some of those curious structures which the same natural instinct has taught the gaily-coloured inhabitants of other lands to form, as a protection from the dangers that surround them.

Were it not for its peculiarly formed nest, the young ones of this species would be subjected to as much danger from every passing breeze, as the birds of tropical countries have to dread from their numerous enemies. To pursue the comparison still further, there is as much ingenuity shown in entwining the nest of this species, and binding it round the several reeds to which it is attached, as is displayed in the leaf-cradled nest of the tailor bird.

Built, as the nest of this bird is, high upon the reeds, which are agitated by every wind that blows, the eggs would be in continual danger of rolling out, were it not for the admirable adaptation of the nest, which is so small in its diameter, and so much deeper, in proportion to its size, than the nests of other birds, that although, as observed by Montague, the reeds amongst which it is placed are often bowed by the wind to the surface of the water, yet the eggs and young ones ride secure.

To Mr. Henry Doubleday, of Epping, and Mr. J. J.

Briggs, of Melbourne, Derbyshire, who finds them in his own neighbourhood, I am indebted for several of the nests of the Reed Warbler, together with the eggs. Each nest is supported by four or five reeds, and forms a singularly beautiful object, the long grassy leaves of the plant bending over it.

The nest is composed almost entirely of the flowering tops of reeds, finer towards its centre, which is sometimes completed by the addition of a few hairs; the outside is bound round and kept firm by long grass, mixed with wool, which is at the same time twisted round the reeds.

The eggs, which are four or five in number, although in some of their varieties resembling those of the sedge warbler, are yet readily distinguished by their deeper colouring, which is for the most part in distinct spots. I have seen a few of these eggs, which are rather like those of the whitethroat.

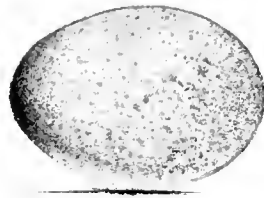
Bolton mentions having found a nest of this bird in a low hazel; and Sweet met with another in the low side branches of a poplar.

I must confess that I read these statements with something of incredulity, until the last summer, during which, Mr. Brown, a bird-stuffer in Bath, procured for me several of these nests from gardens in that city, lying near the river. These were placed indiscriminately, in any shrub most conveniently situated for the purpose; one was in a lilac, another in a lauristinus; and since in such a position the precaution was unnecessary, they were not of the usual depth which commonly characterizes the nests of this species. They were not deeper than the nests of the sedge-warbler, and were composed almost entirely of grass, with bits of moss bound together with wool and spiders' webs, finer towards the inside; in one only were a few hairs.





XXV.\*





*INSESSORES.**SYLVIADÆ.*

## SAVI'S WARBLER.

SALICARIA LUSCINOIDES.

PLATE XXV.\*

THIS is one of the several birds that the spreading taste for Ornithology—which received its first impulse from the beautiful works of Bewick—and the discrimination of its votaries have of late years added to the fauna of this country. Like the other species which it closely resembles in habits and appearance, it frequents districts which are covered with marsh and difficult of access, creeping about and hiding itself mouse-like amongst the low brushwood.

Several specimens of this species have been discovered in the fens of Cambridgeshire, some of which are in the British Museum.

Mr. Bond, to whose kindness I am indebted for the pleasure of figuring this rare egg, received it—together with the nest, which contain'd three eggs, and from which the bird was shot—from the fens a few miles from Cambridge. The nest which is beautifully symmetrical and round, and built entirely of the broad grassy top of the reed, was placed in a thick bunch of sedge upon the ground.

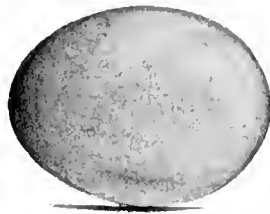
The eggs, which are considerably larger than those of our other three species,—and one of them was a good deal larger than that which I have figured,—most nearly resemble those of the grasshopper warbler, but are much more like those of

the woodlark. Mr. John Hancock tells me that a second nest and eggs of this species, together with the birds, which were also obtained in the fens of Cambridge and which agree exactly with those sent me by Mr. Bond, are in the collection of Mr. Robson, of Swalwell, near Newcastle.

Savi's Warbler is apparently a rare bird throughout the European continent.



XXVI



*INSESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

## NIGHTINGALE.

*PHILOMELA LUSCINIA.*

PLATE XXVI.

THOSE who live too far north, or in the southern counties where its sweet notes are never heard, can have but little conception of the pleasure of which they are deprived, if they have never been so fortunate as to listen to the song of the Nightingale. I have many a time wished that I had yet to hear it for the first time, for although that delicious song, when heard in each succeeding year produces a feeling of pleasure not to be expressed, it can never again excite the same thrill of enjoyment as at first.

Doncaster had long been considered by ornithologists as the northern limit of the Nightingale. In the former edition of this work, I had the pleasure of extending its boundary line a little further, by stating that its song had been several times heard within four or five miles of York.

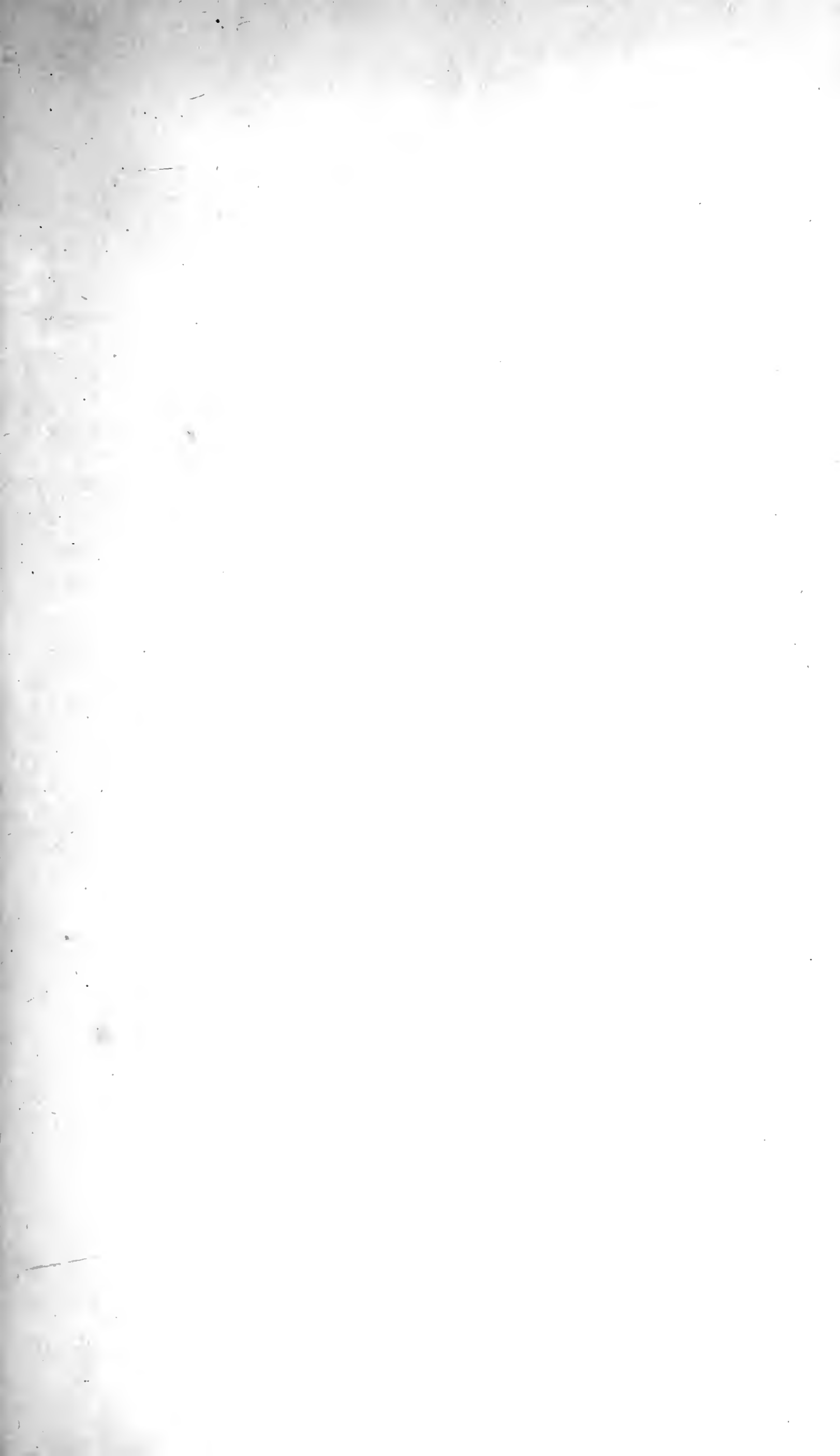
In the August number of the Zoologist it is stated by Mr. Robert Dick Duncan, that the Nightingale was heard in Calder Wood, in Mid Lothian, in the early part of the summer of 1826, a remarkably warm season, one which must be well remembered, by every entomologist, as lavish in the production of many rare insects.

The singular, and apparently whimsical distribution of the Nightingale through the southern counties of England, is one of those mysteries in natural history which has long puzzled

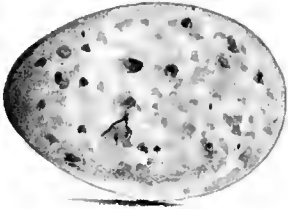
the ornithologist to account for; some of those counties which appear to him, in climate and in everything, best suited for their summer's sojourn, being entirely unvisited by them.

I have never at home, during the daytime, heard the song of the Nightingale in such perfection, so loud, so clear and joyous, as during a few days' ramble in the beautiful neighbourhood of Cintra; every coppice by the road-side, every orange-grove resounded with one loud burst of song.

The Nightingale makes its nest, like the robin redbreast, upon the ground, amongst the roots of trees, or upon a hedge-bank; its base is composed of loose herbage, rushes, and dry leaves; the nest itself is a thick matting of leaves, principally oak, rushes, and grass, lined with a thin covering of fine grass. The eggs are four or five, sometimes six in number; they are usually of the uniform colour of the Plate, but occasionally slightly mottled all over with a somewhat darker colour; they are usually found towards the end of May.



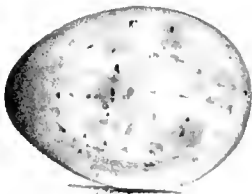
I



II



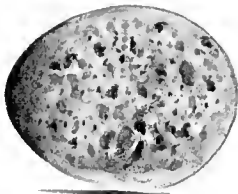
III



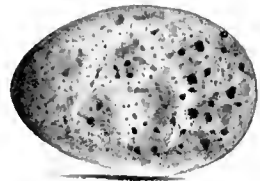
IV



V



VI





*INSESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

## BLACKCAP.

*CURRUCA ATRACAPILLA.*

PLATE XXVII. FIGS. I. AND II.

THE BLACKCAP builds its nest about the end of May, or beginning of June, in close and tangled thickets, in thorns, amongst brambles, and every species of low thick brushwood. In our gardens and pleasure-grounds it may be found in evergreens, and other closely-growing shrubs. It is formed outwardly of umbelliferous plants, twisted together with spiders' webs, bits of thread, and wool, becoming finer towards the inside, and mixed with the stalks and flowering heads of grasses, together with very fine roots, and a few hairs.

Though very slight and pervious, and apparently without the comfort of the thick, mossy, snug-looking nests of other birds, it is strong and compact, and in this alone differs from the nest of the garden-warbler, which is more loosely put together, and in some instances formed of a larger quantity of materials.

The eggs of the Blackcap are four or five in number, and vary considerably, both in colour and in shape, being sometimes a good deal longer than either of the figures in the Plate. The first of these figures represents the colouring which is most common; the second, a beautiful variety, which is not infrequent. There are many specimens smaller, and lighter in colour than either of those drawn, and resembling the egg which is given as characteristic of those of the garden-warbler.

We used at school to find a nest about once in a season, which I have little doubt now was that of the Blackcap, in which the eggs were altogether of a beautiful rose-colour, probably the produce of a young bird; for we always noticed that the nests in which they were found were unusually slight, and easily seen through, so much so, that we then considered them to belong to a different species.

Mr. Yarrell mentions this pink variety of the eggs, and supposes that the tint may be occasioned by partial incubation. This is not the case, incubation usually having the effect of deadening, rather than increasing the colouring of eggs.

*INSESSORES.**SYLVIADÆ.**DENTIROSTRES.*

## GARDEN WARBLER.

CURRUCA HORTENSIS.

PLATE XXVII. FIG. III.

WHEN illustrating the eggs of the genus *Curruca* in the former edition of this work, it was my belief that the eggs of the Garden Warbler, although in some of the varieties very closely resembling those of the blackcap, were usually to be distinguished from them by their more beautiful and bright colouring.

Mr. Henry Doubleday, of Epping, upon whose authority I have the utmost reliance, assures me that the reverse is more frequently the case; "that the eggs of the Garden Warbler are generally smaller than those of the blackcap, and never so bright in colour;" but that the two often approach each other. I have, therefore, figured from his collection those eggs which he considers as the most characteristic of each species. I am, however, still of opinion that eggs of the Garden Warbler, as well as those of the blackcap, have occasionally the rich colouring of the second figure.

The nest of the Garden Warbler may be found at the same season of the year, and in all those places which I have mentioned as most likely to contain that of the blackcap. It is built, too, of the same materials—umbelliferous plants and grasses—lined with fine roots and a few hairs, but less compactly interwoven. The eggs are four or five in number. Mr. Yarrell has found the nest of this species "in a row of peas and pea-sticks in a garden, and once amongst some tares in an open field."

*INSESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## WHITETHROAT.

## CURRUCA CINEREA.

PLATE XXVII. FIGS. V. AND VI.

THE eggs of the Whitethroat resemble more nearly those of the genus *Salicaria*, than of the more closely allied species of *Curruca*; they are, however, very different from either, and have a character and colouring about them which is peculiar to themselves, and gives them, though individually differing a good deal both in size and marking, a specific distinction, which, amongst the numbers I have seen, could never be mistaken; they are always more or less tinted with green, and usually appear as though they were smeared and dirty.

An egg, somewhat less blotched with neutral tint than the fifth figure of the Plate, would represent the typical appearance; some varieties are closely freckled all over with the more subdued colouring alone; others are smaller than either of the figures.

In its nidification the Whitethroat closely resembles the other species of the same genus; the nest, though apparently slight and comfortless, is composed of materials so light, and at the same time so strong, that it is much more compact and firm than the more substantial-looking structures of the *Fringillidæ*. It is composed almost entirely of the stalks of umbelliferous plants, bound and tied together with spiders' webs, and bits of wool, and is generally lined with black

horse-hair. It is usually placed in some of the rank herbage which is met with in the ditch of a hedge-bottom ; a low bush ; in brambles, or a bunch of nettles. The eggs are four or five, and sometimes six in number.

In Westmoreland, where the Whitethroat abounds, it is known by the name of Split-straw, from the fine straw-like materials used in the formation of its nest.

*INSESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

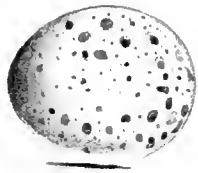
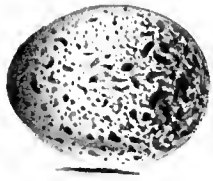
## LESSER WHITETHROAT.

*CURRUCA SYLVIELLA.*

PLATE XXVII. FIG. IV.

THE nest of the Lesser Whitethroat is found in situations similar to that of the common whitethroat; it resembles closely those of the three preceding species, and differs from them only in being constructed of rather finer materials; it is formed outwardly of umbelliferous plants, bound together with spiders' webs, pieces of hemp, or any such like material, mixed rarely with bits of moss; the lining contains a few roots, but consists chiefly of the flowering heads of fine grasses deprived of their seed, in lieu of the stronger stalks of grass, of which the nests of the other species are composed. The eggs bear no resemblance to those of the common whitethroat, but are a good deal like varieties of those of the black-cap; they vary little except in size, and in all the specimens I have seen, and they have been many, have the light ground-colour and clearly defined markings of the Plate, and are not, like those of the other species, suffused over the surface with uncertain colouring: they are four or five in number, and are usually undergoing incubation about the middle of May.







*INSESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

YELLOW WILLOW WREN, WOOD  
WARBLER.

*SYLVIA SIBILLATRIX.*

PLATE XXVIII. FIG. 1.

THE YELLOW WILLOW WREN is much more rare than the two allied species ; its haunts are also different. Whilst the other two species are met with in every thicket and closely-tangled copse, this species frequents woods of a larger growth, and free from the thicker brushwood.

The nest is placed upon the ground in woods, under a tuft of grass ; it is like those of the willow wren and chiff-chaff, covered with a dome ; it is, too, like them, composed of moss, dried grass, and dead leaves, but differs from them always in being lined with fine grass and hair, instead of feathers.

Mr. J. J. Briggs, who has some notes on the Wood and Willow Warblers in the October number of the *Zoologist*, is evidently unacquainted with the nest and eggs of this species, mistaking for them those of the willow-warbler.

The eggs, which are usually seven in number, are, for the most part, similar to the accompanying figure ; they are sometimes more oblong in shape, and thickly freckled all over with claret-coloured undefined spots. I have one, which is sparingly marked, and much like eggs of the chiff-chaff, but with larger spots.

I have often wondered at the difficulty which I have always

experienced in obtaining eggs of this species, as well as those of the chiff-chaff. Neither of them are uncommon, especially in the south of England; and yet among the many eggs which have come before me, amongst which were some hundreds of those of the willow-warbler, I have very rarely seen those of the other two species. In Westmoreland, after several summers of diligent bird-nesting, their eggs were not amongst our spoils.

*INSESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

W I L L O W W R E N,

WILLOW WARBLER.

*SYLVIA TROCHILUS.*

PLATE XXVIII. FIGS. III. AND IV.

MUCH as I love all the dear birds of summer, there is not one the return of which I have yearly witnessed with so much pleasure as that of the Willow Wren, and however more highly the rich melody of some of the other warblers may be prized, there is a simplicity and a sweet cadence about the note of this species, which never fails to excite within me feelings of pleasure, which none but the lover of nature can either appreciate or understand, but which are to him amongst the chief enjoyments of his life.

The Willow Wren is one of the most abundant of the warblers, and almost every wood and copse is enlivened by its beautiful form and graceful motions :

“Thou fairy bird, how I love to trace,  
The rapid flight of thy tiny race !  
For the wild bee does not wave its wing  
More lightly than thine, thou fairy thing !”

It is, too, an inhabitant of more northern countries ; and I shall not readily forget the delight I experienced on hearing its soft sweet note, whilst seated within the Arctic Circle upon one of the bleak isles of Norway.

The Willow Wren builds its nest upon the ground, sometimes in the midst of woods, when not thick, but more com-

monly near their margin, or in open places, or by the side of those grassy drives which are cut through them. It may be found in most of those grassy banks where brushwood occurs. In shape the nest resembles that of the common wren, being arched over, and entered from the side; it is, however, much more fragile, and not easily moved entire; it is composed of dry grass and moss, with dead leaves, warmly lined with feathers. Amongst the many eggs which I have found myself, I have seen only the two varieties figured, and in about equal numbers: the Messrs. Tuke have some which are, however, different, and which, in shape and markings, are more like eggs of the titmice. Mr. Neville Wood, in his *British Song Birds*, quotes a letter from Dr. Liverpool, describing the readiness with which the Willow Wren becomes sociable. To this I can add a most interesting instance. To ascertain beyond doubt the identity of the two varieties of the eggs figured, I had captured, on their nests, several of the birds. Amongst these was one which I had carried home and confined during the night in a large box, and such was its tameness, that when I took it out the following morning, and would have set it at liberty, it seemed to have no wish to leave my hand, and would hop about the table at which I was sitting, picking up flies which I caught for it.

In the autumn previous to their departure, the Willow Wrens frequent our gardens and orchards, where they may be seen busily picking insects from the pea-straw, and other vegetables, the young ones easily distinguished by their brighter yellow colouring; sometimes warbling a farewell song, but in a tone far different from their joyous carol in the spring, and so subdued that it is scarcely audible.

*INSESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## CHIFF CHAFF.

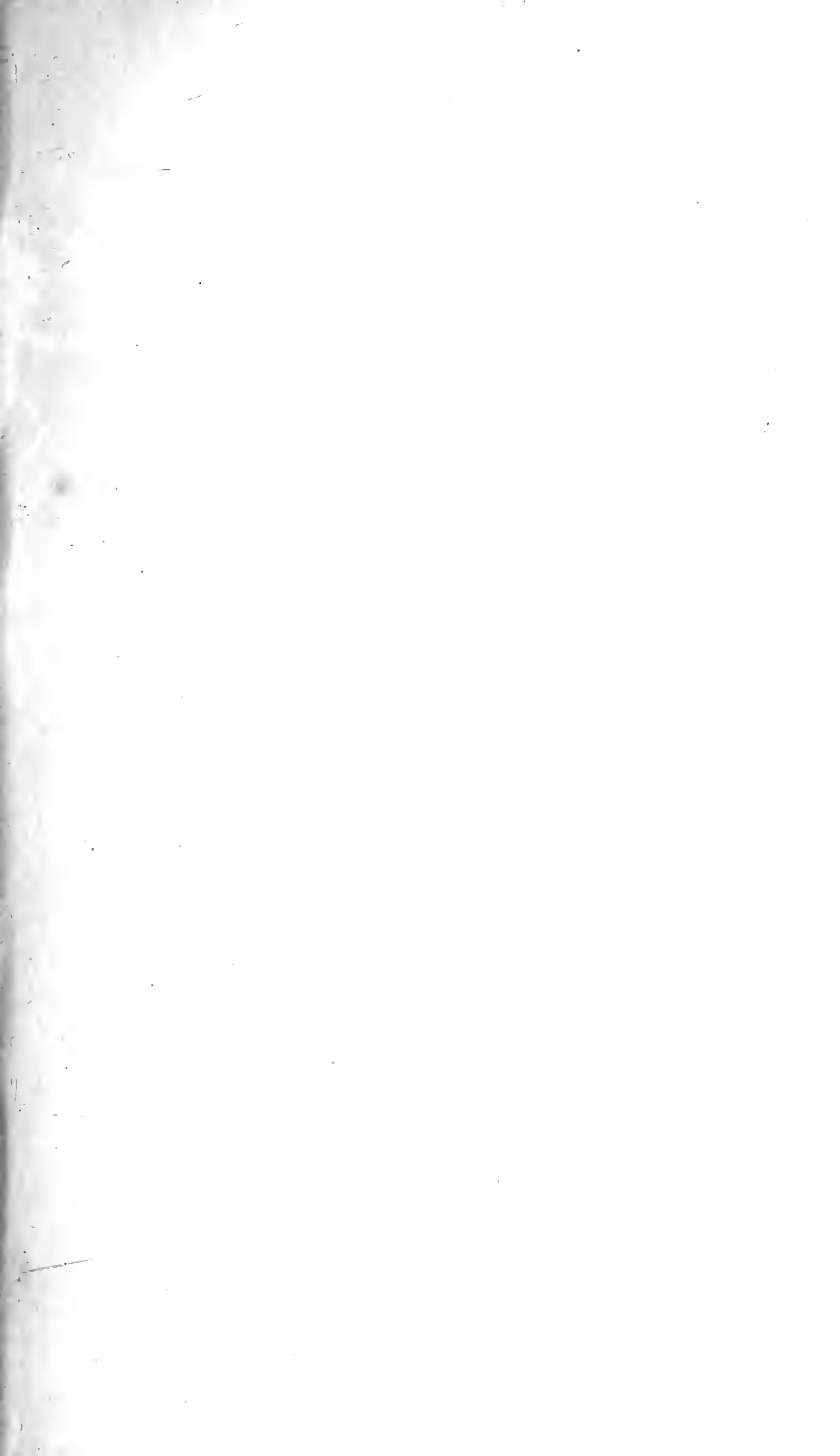
SYLVIA HIPPOLAIS.

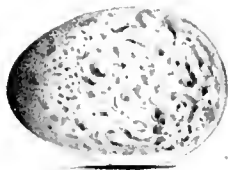
PLATE XXVIII. FIG. II.

HOWEVER monotonous the voice of the Chiff Chaff may sound when mingled with the rich melody of the various warblers, there is a time at which it brings with it a delightful welcome, when its cheerful sound bursts upon the ear as the first notice of the arrival of our feathered friends, just as the violet and the primrose—harbingers of the “time of flowers”—are first rearing their beautiful forms upon the cold earth, to tell us that the woods will soon again be green, and that the chill, joyless winter is about to give place to the delights of summer. It comes to us before the insects have left their winter hiding-places, when there is not a green leaf to cover its graceful form.

The arrival of the Chiff Chaff usually takes place in March; and Mr. Neville Wood informs me that he has heard its note as early as the 5th of February. Montague likewise mentions January and February as its earliest appearance. It is generally sitting its eggs towards the end of May. The nest is very similar to that of the willow-warbler; it is composed of dried grass, dead leaves, and moss; is covered with a dome, and profusely lined with feathers; it is, too, like the rest of that species, placed, most frequently perhaps, upon the ground, but unlike it, is in many instances raised above it, in a low bush. Mr. Henry Doubleday—I copy the information from Mr. Yarrell’s Birds—found

a nest of this species formed externally of dead leaves, placed in dead fern, at least two feet from the ground. I once found one at the same height in some ivy against a garden-wall. The eggs are usually seven; and though in lightly-coloured varieties, much like some of the more distinctly spotted eggs of the willow-warbler, are mostly marked with spots of a much deeper hue.







*INSESSORES.**SYLVIADÆ.**DENTIROSTRES.*

## DARTFORD WARBLER.

*MELIZOPHILUS PROVINCIALIS.*

PLATE XXIX.

THE DARTFORD WARBLER is one of those birds which, although not unfrequent in a few localities, is nevertheless difficult to procure.

It breeds at no great distance from London; is plentiful near Godalming, and may be met with near Lyndhurst in the New Forest. Colonel Montague, who gives the following narrative, observed them near Kingsbridge upon a large furze common; he had watched three pairs of these birds on the 16th of July, two pairs of which he says, "had young, evidently by their extreme clamour, and by frequently appearing with food in their bills."

"On the 17th my researches were renewed, and after watching for three hours the motions of another pair, I discovered the nest with three young; it was placed among the dead branches of the thickest furze, about two feet from the ground, slightly fastened between the main stems, not in a fork. On the same day a pair were observed to be busied carrying materials for building, and by concealing myself in the bushes, I soon discovered the place of nidification, and upon examination found the nest was just begun. As early as the 19th the nest appeared to be finished, but it possessed only one egg on the 21st, and on the 26th it contained four."

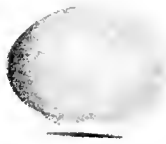
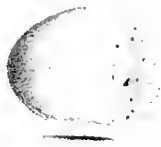
“The nest is composed of dry vegetable stalks, particularly goose-grass, mixed with the tender dead branches of furze, not sufficiently hardened to become prickly; these are put together in a very loose manner, and intermixed very sparingly with wool. In one of the nests was a single partridge’s feather. The lining is equally sparing, for it consists only of a few dry stalks of some fine species of carex, without a single leaf of the plant. This flimsy structure, which the eye pervades in all parts, much resembles the nest of the white-throat.”

The eggs of the Dartford Warbler are very difficult to obtain. I do not remember to have seen them in any collection, and am indebted to the kindness of Mr. Burney for specimens, from one of which the drawing is made; he took them near Oxford, after shooting the female from the nest, which was closely concealed in a thick covering of furze, and was composed of umbelliferous plants, and a small portion of moss, and was, as stated by Montague, a good deal like that of the whitethroat.

The eggs are four or five in number, and bear some resemblance to those of the whitethroat, as well as those of the reed-warbler.



XXX



*INSESSORES.**DENTIROSTRES.**SYLVIADÆ.*

## GOLDEN-CRESTED WREN.

REGULUS AURICAPILLUS.

PLATE XXX. FIGS. I. AND II.

THIS, the least of our British Birds, is very generally dispersed throughout the country, and may be met with from the most northerly part of Scotland and its islands, to the southern extremity of England; we saw it also whilst travelling through the pine forests of Norway. In activity and habit, when in search of insects, it resembles much the various species of titmice, and may be seen, like them, suspended from the branches of trees in all those graceful and beautiful attitudes so peculiar to that tribe of birds. Its chief resort is in fir plantations, and its nest is usually placed in a tree of that species. It is most commonly suspended beneath the sheltering branches of the spruce fir-tree, attached to some of the slender drooping twigs; of a nest thus suspended, Mr. Yarrell has given a nice figure in a vignette. It is sometimes built upon the upper surface of the branch; and I have also seen it, but rarely, placed against the trunk of the tree upon the base of a diverging branch, and at an elevation of from twelve to twenty feet above the ground. It is composed of the softest species of mosses, interwoven with wool, a few grasses, dead leaves, and spiders' webs: with the latter material, together with the wool, it is twisted round and made fast to the branches of the tree from which it is suspended. It is lined with a quantity of feathers, those of the small birds being very appropriately selected to form the

interior of this tiny dwelling. The eggs vary from seven to eight, which is the number most frequent, to ten or even eleven; their commonest colouring is shown by the first figure, the second represents a variety not uncommon.

I have found the eggs of this species fresh in May and June; Mr. Selby states that he has known full-fledged young ones as early as the third week in April.

*INSESSORES.*  
*DENTIROSTRES.*

*SYLVIADÆ.*

FIRE-CRESTED WREN.

REGULUS IGNICAPILLUS.

PLATE XXX. FIG. III.

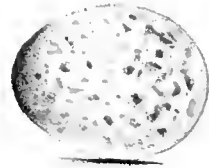
THE existence of the present species in this country was first made known by the Rev. L. Jenyns; other specimens have since been secured, and will most likely continue to be met with, now that the separate identity of the two species has been pointed out.

In its nidification, and number of its eggs, the Fire-crested Wren closely resembles the preceding species. Mr. Yarrell mentions that M. Vieillot found a nest of this bird near Rouen, which was suspended under the branch of a tree, like that of the other species, and contained five eggs.









*INSESSORES.**PARIDÆ.**DENTIROSTRES.*

## GREAT TITMOUSE,

OX-EYE.

PARUS MAJOR.

PLATE XXXI. FIG. I.

THERE are none of our birds to which we are more indebted for amusement and companionship than the Titmice. They are with us the year through, and supply the place of the truant summer-visitors which have left us. Although deprived of song, there is still something most agreeable in their gay, cheerful, and oft-repeated notes. The constant chatter of the blue-cap, the deep bass voice of the marsh titmouse, and even the monotonous spring-pipe of the greater titmouse, are all sounds highly pleasing to the lovers of nature. In activity, and the beauty and gracefulness of their actions, they are surpassed by none ; no place is hidden from their researches ; they are perfect mountebanks, and it seems to matter little to them whether their heads or their heels are uppermost ; dancing at one moment in antics round the branches of a tree, and at the next hanging suspended from its most slender twigs. They are some of the most prolific, and consequently most numerous of our British Birds.

The Greater Titmouse breeds in the holes of trees : Mr. Yarrell says, it will also sometimes make use of the deserted nest of a crow or magpie for that purpose. The nest is composed of moss and feathers, with some hair ; its eggs are, however, sometimes laid upon the fine particles of the rotten wood alone ; they are from seven to eleven in number, and are exceedingly similar in all respects to the eggs of the nuthatch ; they vary only in the number and intensity of the markings.

*INSESSORES.**DENTIROSTRES.**PARIDÆ.*

## BLUE TITMOUSE,

BLUECAP, TOMTIT, BILLY-BITER.

PARUS CÆRULEUS.

PLATE XXXI. FIG. II.

OUR well known friend the Bluecap is the most numerous of his race, and notwithstanding the absurd and cruel clamour that has been raised against him, and although he has long been outlawed, and a price set upon his guiltless head, he is of a race still sufficiently numerous to rid us of countless insects, and to heap benefits upon us in return for all the persecution that he has met with. He is a brave little fellow ; and when the severity of winter has driven him, together with his companion the great titmouse, to seek for shelter under the walls and evergreens of our gardens, and he is pinched with hunger, he will boldly enter any trap that may be set to catch him. It is thus in our gardens that he may be seen, closely prying into every corner, and diligently destroying thousands of insects in their winter quarters ; and though we may follow him in his search, and see the buds of promise from our trees strewed behind him, he has been destroying them to get at the lurking enemy within, which, had it been permitted to live till the following spring, would have wrought us tenfold evil.

Nothing that other birds will eat seems to come amiss to him ; he is very fond of a bit of carrion ; and in order to humour his *penchant*, I have often nailed small pieces of raw

meat against the trees in winter, and amused myself when storm-stayed in the house, by watching his enjoyment. Obstinacy is a remarkable trait in his character, and when he has once set his mind upon some particular spot in which to make his nest, he is only to be driven from it by force, and oft-repeated failure. I remember one, which had taken a fancy to build its nest in the hole under the handle of the garden pump, and it was not till its labour had been destroyed for many successive days, that it abandoned the attempt. When once in charge of his eggs or young ones, he will stoutly defend them against all intruders, first giving you warning that he is on the defensive, by a snake-like hissing noise, and if you obtrude your fingers, by biting them with all his might; and should you cruelly deprive him of the object of all his care, and forcibly eject him from his home, he will still return to its deserted walls for many days to deplore his loss. Of this his attachment to some particular spot, Mr. Heysham, of Carlisle, has kindly supplied me with the following most interesting instance.

“A few years ago, when upon an entomological excursion, wishing to examine the decayed stump of a tree which was broken to pieces for that purpose, and the fragments dispersed to a considerable distance by a severe blow, a Blue Titmouse was found sitting upon fourteen eggs, in a small cavity of the root, and notwithstanding the above severe shock, it remained immovable, till forcibly taken off the nest.”

“Early this spring a pair had taken possession of a hole in a tree, where the pied-flycatcher had regularly built for the last four years, and being anxious it should continue to do so, the nest and eggs were removed, the latter to the number of sixteen; in defiance of all these annoyances the female still kept possession of the hole, where I saw it repeatedly afterwards for several weeks, sitting upon the bare wood.”

It will be seen, too, by these narratives that the Blue Titmouse is the most prolific of our birds.

Until I had the authority which I have just quoted, I have always been accustomed to receive with jealousy and caution any of those reports in which some seem so much to delight, regarding the number of eggs laid by some of our smaller birds, never, in pretty extensive bird-nesting experience, having once met with the nest of any of our Incessorial birds containing more than eight eggs.

The Blue Titmouse builds its nest of grass, moss, hair, and feathers ; it is placed in the holes of trees and old walls, and small though it be, it is not easy sometimes to credit one's sight, through how very small an aperture it can pass. The eggs are most frequently seven or eight, although at times amounting to the unusual number of sixteen.

*INSESSORES.**DENTIROSTRES.**PARIDÆ.*

## CRESTED TITMOUSE.

PARUS CRISTATUS.

PLATE XXXI. FIG. III.

THE CRESTED TITMOUSE is said to have been met with in the pine forests of Scotland, where, however, the recent researches which have been made in the hopes of finding it have proved ineffectual.

Dr. Lathan first records this as a British species, from a specimen sent him from the neighbourhood of Glenmore; and Mr. Selby, quoting the information of Sir W. Jardine, states that it is met with near Glasgow. It breeds, according to Temminck, in the holes of trees and rocks, and sometimes in the deserted nest of a squirrel.

In its actions and habits the Crested Titmouse resembles the blue titmouse so closely, that when in the branches of a tree above your head, it is only by the crest that you can distinguish it. It is alike noisy, and always on the move.

I have watched them for hours, as, in busy pursuit of insects, they thronged the branches of some noble English-looking oak-trees, which adorn the outskirts of the forest at Kissingen, in Bavaria. They were equally abundant amongst the pine-trees; and although it was too late to obtain their eggs, I had the pleasure of discovering one of their nests, and of thus learning something of their nidification.

When trees are felled in the forest, their trunks are left standing about two feet above the ground, and in the de-

cayed wood of one of these a hole was scooped to contain the nest of which I have spoken, just such a situation as would have been chosen by the cole-titmouse. The nest was of dry grass and moss, and lined with feathers, and contained five full-fledged young ones, which scrambled out of the nest as we began to examine them. This species is said to lay from seven to ten eggs.



*INSESSORES.*  
*DENTIROSTRES.*

*PARIDÆ.*

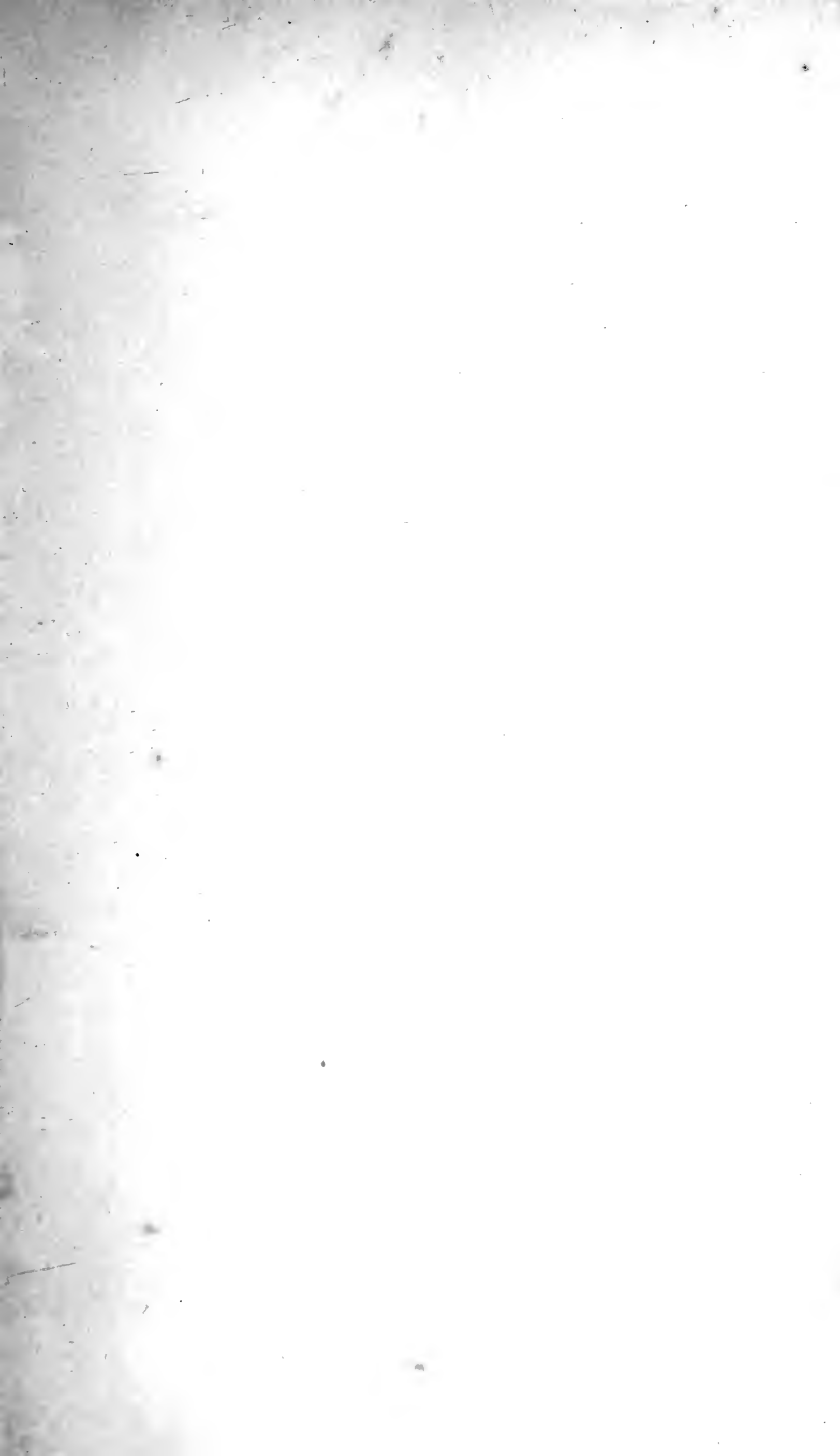
COLE TITMOUSE.

PARUS ATER.

PLATE XXXI. FIG. IV.

THE COLE TITMOUSE breeds, like all the preceding species, in the holes of trees, but with this difference, that the hole chosen by it is usually at a less elevation from the ground than that adopted by the others; its nest being sometimes built in cavities which occur amongst the exposed roots, or, as mentioned by Mr. Selby, in the entrance of a mouse-hole. The nest is of moss, wool, hair, and feathers; and the eggs from six to eight in number.







*INSESSORES.**DENTIROSTRES.**PARIDÆ.*

## MARSH TITMOUSE.

PARUS PALUSTRIS.

PLATE XXXII. FIG. I.

CONSIDERABLE pains is taken by the Marsh Titmouse in hollowing out a suitable cavity for its nest ; whilst excavating which, Colonel Montagu has watched it carefully conveying away the chips to some distance in its bill. It is, as its name implies, fond of low marshy districts, and, as Mr. Yarrell observes, usually makes choice of a pollard and decayed willow, in which to rear its young ones. The nest is made with more care than those of the preceding, and is formed of moss, grass, and the soft down of the willow, with which it is lined.

The eggs are seven or eight in number ; they resemble very closely those of the blue titmouse ; the spots are, however, usually larger, and the form of the egg is rounder and often much like those of the willow-wren.

*INSESSORES.**DENTIROSTRES.**PARIDÆ.*

## LONG-TAILED TITMOUSE,

BOTTLE TIT.

PARUS CAUDATUS.

PLATE XXXII. FIG. II.

AMONGST the many curious and ingeniously-constructed nests which we have seen and admired as the workmanship of the bright birds of other climes, there is not one which can surpass in beauty that of our own native Long-tailed Titmouse. It is in every way perfect, as the safeguard of the tiny beings that are to be reared under its protecting roof, and fostered by its warmth; covered in and defended as it is against every wind that blows, and formed of the softest materials. Its exterior is of green moss, closely and compactly woven together throughout with wool, and the nests and webs of spiders, and studded and coated over outside like the nest of the chaffinch, with pieces of grey lichen; its inside is so thickly lined with feathers as to obtain for it, in some parts of the country, the name of feather-poke. I have not seen one "with the hole behind for its tail to come through," mentioned by Mr. Selby.

I have never met with the Long-tailed Titmouse so common, or seen them so often as to destroy the novelty and interest which their appearance never fails to excite, as they come flitting across my path in rapid succession.

They are most sociable little beings, and except during the breeding-season, are rarely seen alone: united in families during the winter months, they may be seen sometimes pass-

ing from hedge to hedge, following each other in a long string in restless, and scarcely interrupted flight.

With the exception of the species of *Regulus* the eggs of the Long-tailed Titmouse are smaller than those of any other British bird ; they are from seven to ten, and rarely as many as sixteen in number. I state this upon authority which I believe to be good, never having myself seen more than seven in the same nest. The spots are sometimes altogether absent from some specimens, or are scarcely visible.

Upon finding the nest of almost every bird, we may predict with tolerable certainty the number of eggs it will contain, provided the bird has done laying ; but with the blue and Long-tailed Titmouse it is far different ; they vary from seven or eight, to twice that number, and even more ; I have found the nest of each of them with seven eggs only, and hard sitten.

The nest of this species is placed most frequently, perhaps, in the centre of a thick bush. I have seen it, however, in a very different situation, far from the ground upon the main branches of the oak ; and I suspect that it might be more frequently met with there than elsewhere, were it not from the great difficulty in discovering it.

In each of the instances in which I have found it, it was by having my attention directed to the spot by the frequent flight of the birds in that direction, and so closely did the nest resemble a portion of the tree, that it was not detected till I had seen the birds go inside ; upon climbing to the spot I found that the nest was built upon one of the main boughs, which the base of it partly spanned, without any support from the smaller branches.

*INSESSORES.**DENTIROSTRES.**PARIDÆ.*

## BEARDED TITMOUSE.

CALAMOPHILUS BIARMICUS.

PLATE XXXII. FIG. III.

THE BEARDED TITMOUSE is either so sparingly dispersed in most parts of the country, or is, in those fenny tracts of country where more abundant, so difficult to approach, that but little is known of its habits, except by those who for that purpose have made a visit to its retreats, which are chiefly in the marshy districts of the counties of Norfolk, Suffolk, Huntingdon, Cambridge, and Lincoln.

Never having myself had the pleasure of seeing it in its native haunts, I copy the narrative of an acute observer. Mr. Hoy thus writes in the pages of the Magazine of Natural History:—"The borders of the large pieces of fresh-water in Norfolk, called Broads, particularly Hickling and Horsey Broads, are the favourite places of resort of this bird; indeed it is to be met with in that neighbourhood wherever there are reeds in any quantity, with fenny land adjoining. I have found them numerous during the breeding-season on the skirts of Whittlesea; and they are not uncommon in the fenny district of Lincolnshire. It begins building in the end of April. The nest is composed on the outside with the dead leaves of the reed and sedge, intermixed with a few pieces of grass, and invariably lined with the top of the reed, somewhat in the manner of the nest of the reed-wren, but not so compact in the interior; it is generally placed in a tuft of coarse grass, or

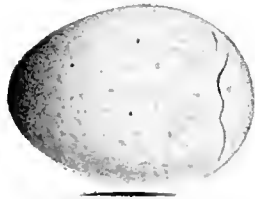
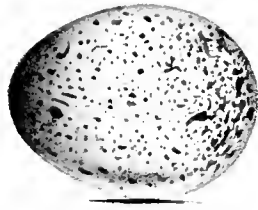


rushes near the ground, on the margin of the dykes in the fen ; also sometimes fixed among the reeds that are broken down, but never suspended between the stems ; the eggs vary in number from four to six, rarely seven." Mr. Yarrell says: "A few years since I obtained two nests from the parish of Horsey. These were both placed near the ground, being sustained only an inch or two above the surface by the strength of the stems of the coarse grass upon which they were fixed. Each nest was composed entirely of dried bents, the finer ones forming the lining."





XXXIII



*INSESSORES.**DENTIROSTRES.**MOTACILLIDÆ.*

## PIED WAGTAIL.

*MOTACILLA YARRELLII.*

PLATE XXXIII. FIG. I.

ALTHOUGH not at present prepared to adopt as distinct species the two Pied Wagtails of Mr. Gould, I have yet felt unwilling to reject the name proposed by him as a tribute to Mr. Yarrell, since it may yet be proved more satisfactorily that Mr. Gould's species are more than varieties.

The Pied Wagtail builds its nest in the holes of walls, bridges, and on the broken banks of rivers upon the ground. Mr. Yarrell says that it is frequently fixed in the side of a woodstack or hayrick, and occasionally occupying a cavity in a peat stack, or wall of turf sod.

Mr. Jesse mentions a remarkable instance of a bird of this species, which built its nest in one of the workshops belonging to Mr. Cox of Taunton, and, although the room was occupied by braziers, and the noise loud and incessant, yet in this strange place did the old birds persevere in hatching their young ones.

The nest of the Pied Wagtail is composed of roots and grasses, lined with finer roots and hair.

The eggs, which are from four to five in number, vary very considerably both in size and colour. I take the figure which is given to be characteristic of the greater portion of them; some specimens are much larger, and more deeply coloured, and would with difficulty be distinguished from those of the house-sparrow.

*INSESSORES.*  
*DENTIROSTRES.*

*MOTACILLIDÆ.*

## GREY WAGTAIL.

*MOTACILLA BOARULA.*

PLATE XXXIII. FIG. II.

THE nest of the Grey Wagtail may be found in most of the situations chosen by the pied-wagtail; in an old wall near a stream of water, in holes in bridges, but is more frequently met with upon the ground than that of the pied-wagtail. In its materials it is also nearly similar to the last, being composed of dry grass and roots, with sometimes a little moss or wool, and is lined with hair.

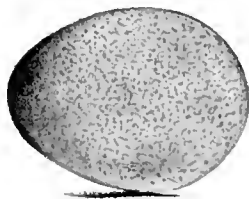
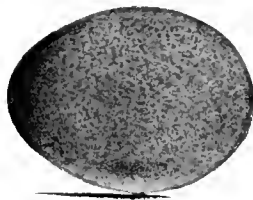
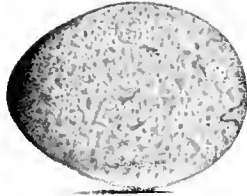
The Grey Wagtail is, comparatively, a rare bird, and is chiefly confined to the north of England during the breeding-season. I have taken its nest and eggs in Westmoreland; from Mr. Heysham, of Carlisle, I have others; and also— together with a nest beautifully lined with white hair only— from Mr. Leyland, of Halifax, who meets with them in his own neighbourhood every year.

This beautiful bird is very abundant in Madeira; I used to meet with it everywhere upon the margin of the numerous levadas, or water-courses, by which the country is intersected for the irrigation of the vineyards.

The eggs of this species are usually very slightly coloured. I have seen some both larger and much darker than the Plate. They are usually four or five in number, but occasionally extend to six.



X XXIV





INSESSORES.  
DENTIROSTRES.

MOTACILLIDÆ.

## GREY-HEADED YELLOW WAGTAIL.

MOTACILLA FLAVA. (*Temm.*)

PLATE XXXIV. FIGS. I. AND II.

SINCE the marks of difference which distinguish this species from the common yellow wagtail, with which we are so familiar, were first pointed out by Mr. Gould, several specimens have been met with in this country.

My friend Mr. Henry Doubleday was the first to give it a place as a British bird, since which others have been killed near London, in Suffolk, Northumberland, and in Scotland.

This species, being the true *Motacilla flava* of the Continental naturalists, must retain the name. It is therefore proposed that we should for the future know our Yellow Wagtail, which has become familiar to us under the name of *flava*, by that of *Motacilla Rayi*.

To the late Mr. Hóy I am indebted for a nest, and a large series of the eggs of this species, collected by him on the Continent, together with the following information :

“The *M. Flava* arrives about the middle of April, and is then seen following the plough in search of insects. It differs from the yellow wagtail in its breeding-places ; whilst our species most commonly makes its nest in dry situations in corn-fields, the continental species prefers low wet lands, placing its nest upon the ground in marshes, by the side of ditches in meadows, on the borders of inland pools and meres, and often on the boggy parts of heaths.”

Whenever we noticed this species in Norway, and we did so in several instances, it was always upon heaths and marshes, so wet and boggy, that it was with difficulty we could explore them.

The nest of the Grey-headed Yellow Wagtail is formed of coarse grass, and those mosses which grow in wet situations, strengthened by pieces of heath, and lined with fine grass and roots, moss, and hair.

The eggs scarcely differ from those of our yellow wagtail, they go through the same variety of colouring, and are frequently more slightly tinted than either of the figures drawn.

*INSESSORES.*  
*DENTIROSTRES.*

*MOTACILLIDÆ.*

RAY'S WAGTAIL,

YELLOW WAGTAIL.

*MOTACILLA RAYI.*

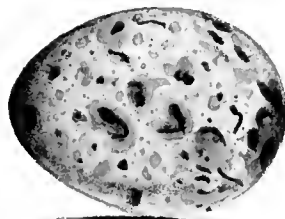
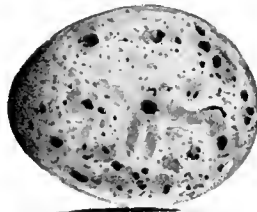
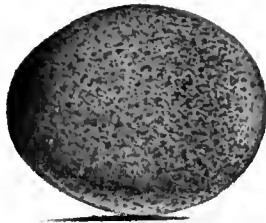
PLATE XXXIV. FIG. III.

THE YELLOW WAGTAIL usually builds its nest upon the ground, in fields of peas, or green corn, or on a naked fallow. I have found it too upon a ledge of earth on the bank of a river, and in the hole of a wall by the side of water. The nest is composed of dry grasses and roots, bits of moss or wool, and is lined with the finer grasses and roots, and a few hairs. The eggs are commonly four or five in number, sometimes six; they are usually somewhat less than the eggs of the grey wagtail, which they very much resemble; they are still more like those of the grey-headed yellow wagtail, and it would be very difficult to identify them if once mixed with eggs of the sedge-warbler.





XXXV



*INSESSORES.**DENTIROSTRES.**ANTHIDÆ.*

## TREE PIPIT.

ANTHUS ARBOREUS.

PLATE XXXV.

AMONGST our land birds there is no species the eggs of which present so many, or such distinct varieties as those of the Tree Pipit. No one would at first believe them to be eggs of the same species ; and it was not till I had captured the bird upon each of the varieties, and also received them from Mr. H. Doubleday, similarly attested, that I felt satisfactorily convinced upon the subject.

Of the varieties figured, all are easily procured. I have them in abundance, taken when I was at school. The first figure is the most common, together with a variety having the same colouring as the eggs of the meadow pipit or titlark.

In woody countries the Tree Pipit is very abundant, especially in Devonshire, Somersetshire, and some parts of Cumberland ; differing in this, its choice from the very closely-assimilated species the titlark, which, though it may be met with in the more cultivated and woody districts, is far more abundant on moors and open heaths, where it is followed by the cuckoo.

The nest of this species is composed chiefly of dry grass, mixed with moss, lined with finer grasses, and sometimes a few hairs. It is placed upon the ground, rarely far distant from trees or brushwood, and is frequently found in woods and plantations by the side of a drive or footpath. Mr. Ne-

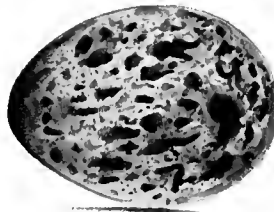
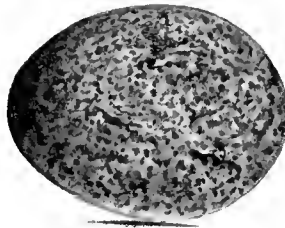
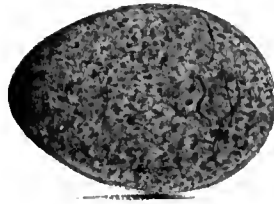
ville Wood, in his book of British Song Birds, mentions an instance, the only one of which I have heard, of its having been found in a low bush.

The favourite resort of the Tree Pipit is a grassy bank on the margin of a wood, especially if ornamented by a few single trees, on the branches of which it delights to perch. In such a situation you are sure to find its nest and eggs, if towards the end of May, or during the month of June; they are four or five in number, and in their spotted varieties seem to represent and form a connecting link with those of the buntings.





XXXVI



*INSESSORES.*  
*DENTIROSTRES.*

*ANTHIDÆ.*

MEADOW PIPIT,

TITLARK.

*ANTHUS PRATENSIS.*

PLATE XXXVI. FIG. 1.

THE eggs of the Meadow Pipit are less subject to variety than those of the other species, not often differing much from the sombre colouring of the Plate, except in the intensity of hue ; some are less strongly freckled throughout, whilst others are marked with a distinct zone of deeper colour towards the larger end. I have one very distinct and remarkable variety, not unlike some eggs of the pied wagtail.

The Titlark builds its nest in meadows and pastures, but is more partial to the margins of heathy moors. On those which border the lake district of Cumberland and Westmoreland, it is very abundant ; and the cuckoo, which seems to have a partiality for its nest, is there more numerous than I have ever seen it elsewhere. The nest is composed entirely of grass, finer towards the inside, and contains four or five eggs.

*INSESSORES.*  
*DENTIROSTRES.*

*ANTHIDÆ.*

ROCK PIPIT,

ROCK LARK.

*ANTHUS AQUATICUS.*

PLATE XXXVI. FIG. II.

THE ROCK PIPITS are, I believe, confined entirely to the sea-coast, upon some parts of which they are very abundant. They make their nests upon the ground, or upon ledges of the rock bounding the sea-beach. I have frequently found them upon the Fern and Coquet Islands, and once met with one snugly sheltered in the centre of a heap of sea-weed which lay upon the sandy shore just above high-water mark. The nest is composed entirely of fine dry grass, and although beautifully complete and symmetrical in its proper position, very soon falls to pieces if removed. The eggs are four or five, and occasionally six in number. I have seen no very striking varieties amongst them; they may be readily known from those of the other species of *Anthus* by their superior size; from some of the varieties of eggs of the skylark it would not be so easy to distinguish them; they are, however, usually broader, in comparison to their length, and are without the greenish colouring, which is frequently characteristic of the eggs of the skylark.

*INSESSORES.*  
*DENTIROSTRES.*

*ANTHIDÆ.*

RICHARD'S PIPIT.

*ANTHUS RICARDI.*

PLATE XXXVI. FIG. III.

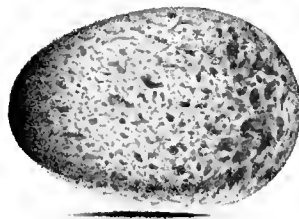
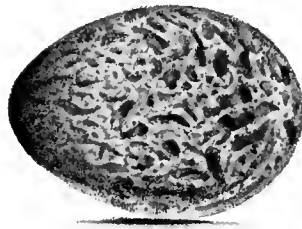
THE eggs from which I have selected one to form the subject of the accompanying drawing, were amongst those which the assiduous and successful bird-nesting rambles of the late Mr. Hoy added to our collections; they were brought by him from the Continent, and are in the collection of Mr. H. Doubleday, of Epping. The Messrs. Tuke of York have also received them from Germany.

This species, like the rest of the genus, makes its nest in a tuft of grass upon the ground. It is of dry grass, moss, and a few hairs; the eggs are four or five in number.





XXXVII





The Eggs of the Skylark and Woodlark, Plate XXXVII.  
are much too green.



*INSESSORES.*  
*CONIROSTRES.*

*ALAUDIDÆ.*

## SKY-LARK.

*ALAUDA ARVENSIS.*

PLATE XXXVII. FIG. I. AND II.

THE eggs of the Sky-lark, though very rarely differing so much as to cause a difficulty in identifying the species, are nevertheless subject to much variety, both in form and colour; some are large and oval, others are pyriform, like those of the waders; some are of the deep sombre brown which marks the eggs of the titlark; others are tinted with green, and are, I think, the most characteristic of the species, whilst a few, and these are of rare occurrence, are so much less closely freckled, as to leave a light ground-colour. In a nest which I found in Derbyshire some years ago, were two of these varieties; one of them resembled a good deal the eggs of the woodlark both in size and colour; the other was still lighter, the markings smaller, and not unlike eggs of the pied-wagtail. These were in the same nest with three others, of the usual size and colour. There is yet another variety which I had almost forgotten to mention, on which the chief part of the colouring is concentrated in a deep zone round the larger end, and in two or three specimens which I have seen the same deeper colouring was centred in a finger-like mark on one side only.

The nest of this species is made almost entirely of dried grasses, finer towards the interior, mixed with a few roots; it is placed upon the ground, and may be found in almost every situation which the country affords; the grassy meadow, the

corn-field, the open pasture, and on the bare sod of the ploughed land; it may also be met with amongst the long tufts of grass which abound in lands partially boggy, and sometimes in newly made plantations.

Mr. Blyth mentions a remarkable instance in which the Sky-lark—its nest being laid open by the scythe—constructed over it a canopy of dry grass to afford it the protection and concealment which the long grass, amongst which it was snugly sheltered, had previously afforded, an instance curious, because the same birds had probably the preceding year built their nest in a situation quite as much exposed to the daylight and the weather, as the present one when left bare by the mowers.

The Sky-lark breeds earlier, but I have usually found its eggs in May and June; they are from three to five; frequently not more than three in number.

*INSESSORES.*  
*CONIROSTRES.*

*ALAUDIDÆ.*

## WOODLARK.

*ALAUDA ARBOREA.*

PLATE XXXVII. FIG. III.

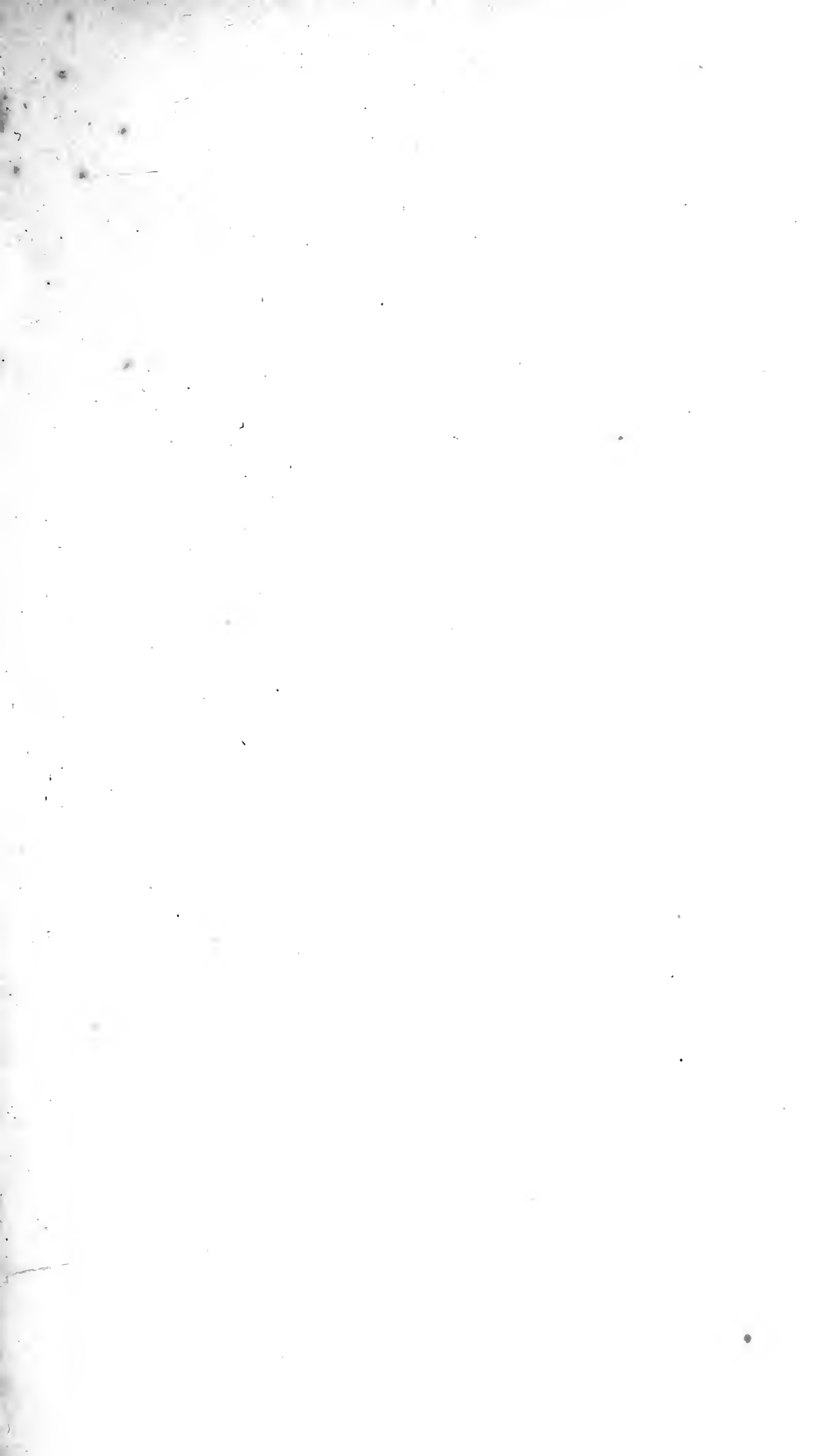
GREAT progress has been made of late towards a knowledge of the eggs of our British Birds. Till within a few years the eggs of the Woodlark were very little known, and were misrepresented in most collections by one of the varieties of those of the tree-pipit.

The difficulty in procuring its eggs may be accounted for by the value that is set upon the young birds, and the eagerness with which they are sought, to rear them for the cage.

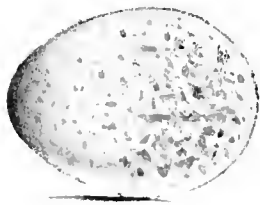
The Woodlark, though not a rare bird, being met with in most of the southern counties, is yet nowhere numerous: north of York it is but seldom met with, but has been frequently taken by the bird-catchers in the neighbourhood of that city. It is partial to newly-inclosed lands, and to light heathy districts, and makes its nest for the most part on those bare pastures which generally surround them, especially if trees and plantations are not far distant; it may be found also on the bare fallow field.

The nest, which is composed of coarse grass and roots, mixed occasionally with moss, and the skeletons of decayed leaves, and lined with the same materials of a finer texture, together with a few hairs, is placed in a tuft of grass, sometimes at the foot of a scrubby bush. Mr. Neville Wood

mentions having found one upon the stump of a felled tree. Mr. Hoy informed me that he has found the eggs early in March in mild seasons, and as late as the end of July; they are four or five in number, and are readily known from those of the skylark and the pipits by their lighter ground-colour; they are not subject to much variety, but are sometimes beautifully marked with blotches of vinous colouring.



XXXVII\*





*INSESSORES.*  
*CONIROSTRES.*

*ALAUDIDÆ.*

## SHORT-TOED LARK.

*ALAUDA BRACHYDACTYLA.*

PLATE XXXVII.\*

SINCE the Short-toed Lark has made its appearance in this country, and been admitted to a place amongst our British Birds, I am glad to avail myself of the kindness of Mr. Gould, which enables me to figure an egg of this species from his collection. This egg, it will be seen, very closely resembles those of the wood lark.

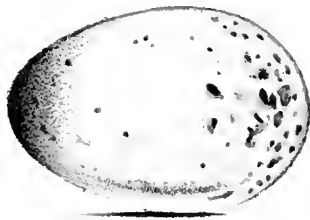
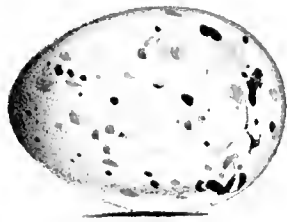
The Short-toed Lark is met with in abundance in various parts of the south of Europe.

Whilst wandering during the last autumn upon the grassy slopes of the Appenines, which form a back ground to the city of Genoa, I frequently heard the song of a Lark, the notes of which exceeded in power and sweetness those of any other bird it has been my pleasure to listen to; and I think it very probable that the bird of which I speak was the Short-toed Lark, from its similarity in size. I have watched them while singing and hovering, like the sky-lark, high in the air, and almost beyond my view, and at the time a strong wind was blowing, and have wondered that I could distinctly hear every note they uttered.





XXXVIII



*INSESSORES.*  
*CONIROSTRES.*

*EMBERIZIDÆ.*

SNOW BUNTING,  
TAWNY BUNTING, SNOW FLAKE.

*PLECTROPHANES NIVALIS.*

PLATE XXXVIII.

THE SNOW BUNTING has never been known to breed in this country, but only visits us during the winter months, and returns to more northerly regions to propagate its species. Pennant says that they breed in Greenland. Mr. Hancock, of Newcastle, has the eggs from Davis' Straits; and Mr. Proctor of Durham, found the nests of this species when in Iceland, in the month of June; they were placed amongst large stones, or in the fissures of rocks, and were composed of dry grass, lined with hair or feathers.

Dr. Richardson says that they breed on the northernmost of the American islands, and on all the shores of the continent, from Chesterfield inlet to Behring's Straits. Captain Lyons found their nests on Melville and Southampton islands, "in the crevices of rocks, or amongst loose stones, and constructed of dried grass, neatly lined with white deer's hair:" he mentions having met with one which was placed in the dead body of an Esquimaux child. Lieutenant Ross also describes one which was found at the Whale-fish Islands, early in July, formed of dry grass, and lined with feathers, which were covered with a fine white down.

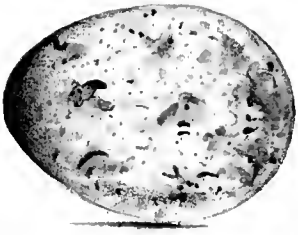
When in Norway we saw the Snow Buntings in their beautiful summer-plumage of black and white, and succeeded

in finding a single nest and young ones under some loose stones upon one of the larger islands.

It will be seen from the various accounts of this species which I have quoted, that it varies the lining of its nest considerably, according to circumstances, soft materials of any kind being difficult to procure in those sterile, thinly peopled countries.

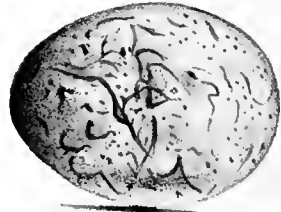
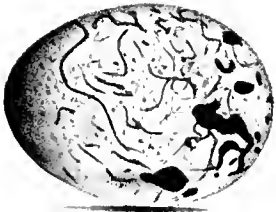
The eggs are from four to six in number, and are subject to great variety; some are like those of the tribe of birds to which it belongs, whilst others are exactly like those of the green-linnet. Mr. Hancock, of Newcastle, has a variety thickly marked all over with spots of a reddish and purple hue, and much resembling eggs of the spotted flycatcher.





...

...





*INSESSORES.*  
*CONIROSTRES.*

*EMBERIZIDÆ.*

COMMON BUNTING,  
CORN-BUNTING, BUNTING-LARK.

*EMBERIZA MILIARIA.*

PLATE XXXIX. FIG. I.

THE COMMON BUNTING, perhaps better known by the name of Corn-bunting, or Bunting-lark, builds its loosely constructed nest on or near the ground, sometimes in briers, more commonly in a clump of grass, and occasionally at the root of a low shrub; it is usually in the open fields, and at a distance from the hedgerows; like the nest of the last species, it is composed of a few sticks, pieces of moss, and dry grass, becoming finer towards the inside, which is sometimes completed by the addition of a few hairs. The eggs are four or five in number, and differ a good deal in size, shape, and colour, but always retain the character of the genus. Their size prevents them from being mistaken for those of any other bunting.

*INSESSORES.*  
*CONIROSTRES.*

*EMBERIZIDÆ.*

## BLACK-HEADED BUNTING,

REED-SPARROW, BLACK-CAP.

*EMBERIZA SCHÆNICLUS.*

PLATE XXXIX. FIG. II.

DIFFERENT opinions have been held with regard to the position of the nest of this species. Some authors in describing the situation of its nest, have no doubt confounded it with that of the sedge-warbler, as noticed by Mr. Selby and the Rev. L. Jenyns.

It usually builds its nest in a clump of grass, or low bush, preferring a marshy situation. I have, however, though rarely, found the nest at an elevation of two feet or more above the water, and supported by a bunch of the common reed, not fixed like the nest of the reed-warbler, attached to the perpendicular stems, but supported upon a bunch of them which had been prostrated by the wind.

The nest is composed of the stalks of various plants, some moss, and is lined with hair. The eggs are four or five in number, varying only in the browner or more purple tint of the general colour. They have much resemblance in their markings to the eggs of the chaffinch, but are always much darker.

*INSESSORES.*  
*CONIROSTRES.*

*EMBERIZIDÆ.*

## YELLOW BUNTING,

YELLOW-AMMER, YELLOW-YOWLEY, OR GOLD SPINK.

*EMBERIZA CITRINELLA.*

PLATE XXXIX. FIGS. III. AND IV.

THE YELLOW BUNTING is one of our most common birds, and its singularly marked eggs always form a large portion of the bird-nesting spoils which fill the string of the schoolboy. Although subject to great variety, they are usually so characteristic of the species that it would not be easy to confound them with those of any other bird, except the rarer eggs of the ciril-bunting. In form they are occasionally very long and oval, sometimes round as a marble. I have seen a single specimen of this egg so much suffused with colour that it might have been mistaken for that of the cuckoo.

The nest is formed outwardly of straws, bits of moss, sticks sometimes, and coarse grass, finer towards the inside, which is finished with roots and a few hairs. It may be found upon almost every briery hedge-dyke; it is most commonly placed upon the ground, but not unfrequently occupies the centre of a thick bush.

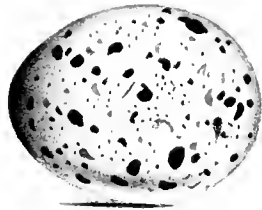
Mr. Salmon has found the nest at the unusual height of seven feet above the ground, amongst the thick bushy branches of some broom; and once, very much to my surprise, whilst seeking for nests of blackbirds and thrushes, amongst the firs of a young plantation, I discovered a nest of this species about six feet above the ground, upon the

branch of a spruce fir-tree, exemplifying a remark made to me by Mr. Yarrell, that as the buntings become more nearly allied to the larks by the greater length of their hind claws, so they likewise resemble them in their habit of building upon the ground. Of this the common and snow buntings, both of which have the claw produced, are instances, the former very rarely, the latter, as far as known, never raising its nest above the ground.

The eggs of the Yellow Bunting are from three to five in number ; the female sits very closely, and is not easily driven from them.



XL



*INSESSORES.*  
*CONIROSTRES.*

*EMBERIZIDÆ.*

## CIRL BUNTING.

*EMBERIZA CIRLUS.*

PLATE XL. FIG. I.

THE CIRL BUNTING, together with its nest and eggs, was first discovered in this country by Colonel Montague, and as I have never seen the nest, I quote his information. He says, "We first discovered this species near Kingsbridge, in 1800; they are indigenious to Devonshire, but seem to be confined to the southern parts of that county contiguous to the coast, having found them extending as far as Teignmouth, at both of which places we found their nests, but have never observed them far inland. It generally builds in furze, or some low bush; the nest is composed of dry stalks, roots, and a little moss, lined with long hairs and fibrous roots, the eggs are four or five in number.

The Cirl Bunting breeds also in Cornwall, from which county the Messrs. Tuke have received their eggs.

This species is not uncommon in the neighbourhood of Bath and Bristol during the winter months.

*INSESSORES.*  
*CONIROSTRES.*

*EMBERIZIDÆ.*

## ORTOLAN BUNTING.

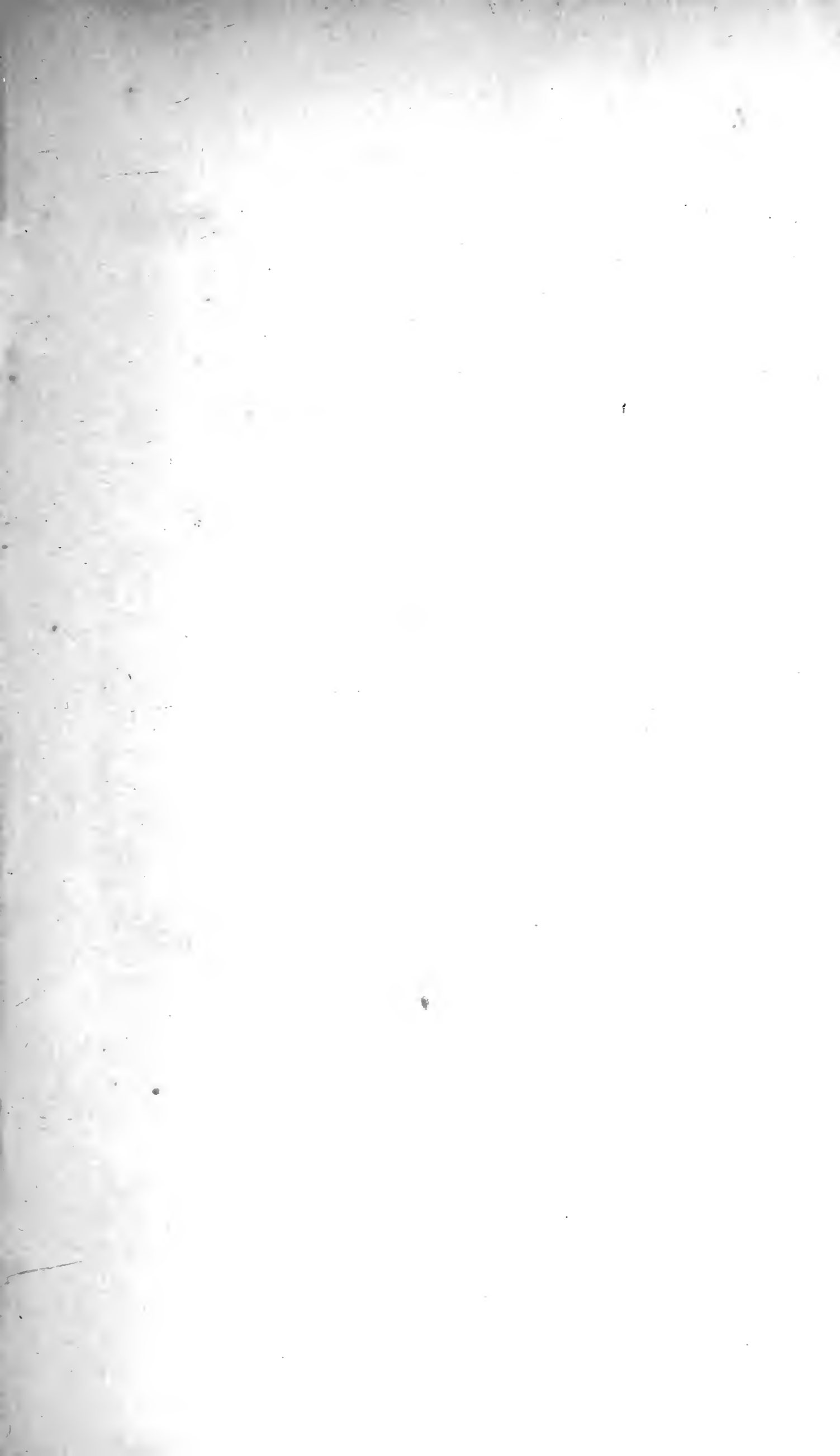
*EMBERIZA HORTULANA.*

PLATE XL. FIG. II.

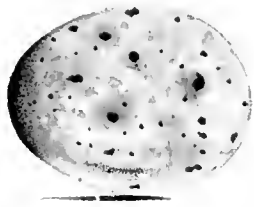
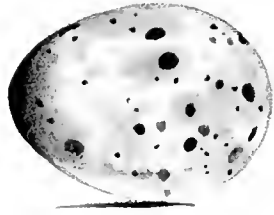
IN Italy, Germany, and various parts of the Continent, the Ortolan Bunting is an abundant species. I am fortunate in being able to give some account of it from an eye witness of its habits. The liberality of the late Mr. Hoy supplied me with the nests and several beautiful varieties of the eggs of this species, together with the following information. "The Ortolan Bunting begins to build early in May; it places its nest almost invariably in the corn, preferring rye to other kinds, indeed it is partial to light sandy soils where rye is much cultivated. The nest is placed in some little hollow in the ground, in the manner of that of the skylark; it is formed of dry grass and roots, thickly lined towards the interior with very fine roots; in some the inside is furnished with a few hairs. The eggs are four or five, sometimes, though rarely, six in number. I have never found them breeding except amongst corn. The male is almost incessant in its monotonous song during the pairing-season; it much resembles others of the tribe, having some resemblance to that of the ciril, as well as the reed-bunting."

Some of the varieties of the eggs are a good deal like those of the reed-bunting, and others bear some likeness to those of the yellow-bunting.





XLI



*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

CHAFFINCH,

SKELLY, SHELL-APPLE, PICK-A-TREE.

*FRINGILLA CŒLEBS.*

PLATE XLJ. FIG. I.

FEW can have passed through life so unobservant as not to have seen, and in seeing to have admired, the nest of the Chaffinch. No one whose heart is touched by the beauties of nature, can have examined this exquisite structure without uttering some exclamation of wonder and delight, and of comparing it, like the poet, with all that is most admirable in art and of man's invention.

Amongst even the tiny architects of the feathered race, there are few that can compete with the Chaffinch. Its nest is not only perfect in its inward arrangements, but is tastefully ornamented on the outside as well, with materials such as nature can alone supply. In its outward decoration some individuals employ much more of taste than others, but all seem to think it indispensable to deck the green walls of their dwellings with gems of white; and when, in the neighbourhood of our towns, the beautiful white lichens which are used for that purpose are obscured and blackened by the smoke of our chimneys, they have recourse to something else.

A nest of the Chaffinch, which was built in an old willow-tree in my father's garden, amidst the smoke of Newcastle, where no white lichens could be found, was stuck over outside with small bits of white paper. Mr. Rennie says that, in the

neighbourhood of the cotton factories at Catrine, in Ayrshire, he has seen many Chaffinches' nests thus decked with small tufts of cotton wool.

The Chaffinch builds its nest in many different situations, preferring old moss-grown apple or crab-trees, and white thorn bushes. There is, however, scarcely a low tree upon the branches of which the nest may not be sometimes found, occasionally upon the flat boughs of a spruce-fir, in hollies, and often in hedges. I have found one on the top of a dead stake fence. The nest is small in comparison with that of most other birds, being usually only an inch and three-fourths in diameter inside; it is composed chiefly of moss, so worked and matted together with wool, that it is no easy matter to pull it into pieces as small as those of which it was first formed; inside of this is a very thick lining of dry grass, wool, feathers, thistle-down, and hair, in succession.

The eggs are four or five in number, and rarely differ much from the accompanying figure. I have taken some of a light blue, blotched with reddish colouring, and much like those of the bullfinch.

*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

MOUNTAIN FINCH,  
BRAMBLING.

*FRINGILLA MONTIFRINGILLA.*

PLATE XLI. FIG. II.

To the kindness of Mr. Dashwood I am indebted for the pleasure it affords me to figure an egg, about which nothing has, with any certainty, been before known; they have been described as resembling those of the green-linnet, but are, as might be expected, very much like those of the chaffinch.

Mr. Dashwood has had the Brambling for some years at his residence at Beccles, Suffolk, and from him I have the following interesting notes. His aviary is a large one, inclosing a considerable piece of ground, surrounded by ivy, and planted inside with shrubs, so that the birds enjoy something of their native liberty.

The nest having been completed four days, the female laid her first egg on the 16th of June, 1839, depositing another daily till the 21st, when they were removed.

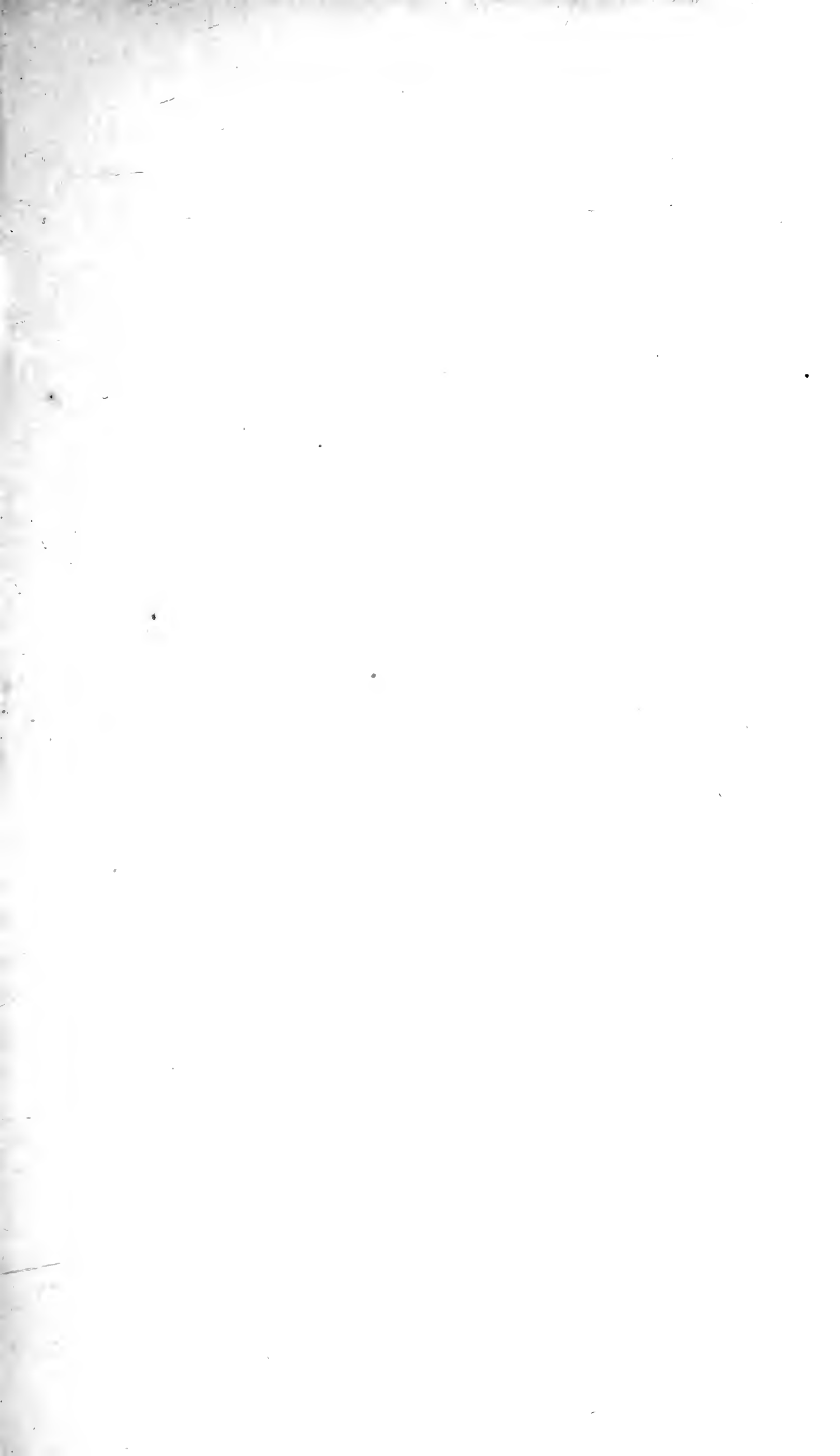
“The nest was deep, the walls thick, a large quantity of materials employed for the foundation, which was worked among the stalks of the ivy leaves. It was composed of moss, wool, and dry grass, and lined with hair. Portions of the nests of the chaffinch, green linnet, whitethroat, and yellow-bunting, were plentifully supplied, so that ample choice of materials was afforded.”

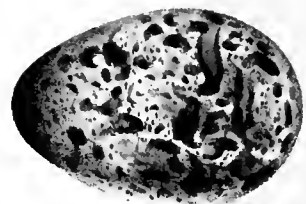
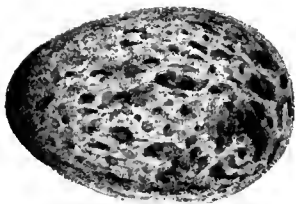
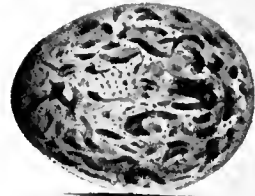
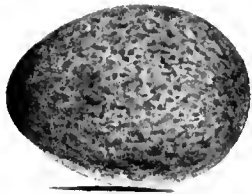
In the latter part of July of the same year, another pair

of Bramblings built, placing their nest on the ground close to a shrub on a tuft of grass. Outside of the nest of moss, lined with hair. From this nest I removed four eggs on the 1st of August. On the 17th of June, 1840, they laid again, having built in the ivy. This nest I did not disturb, and although the eggs were hatched, they did not succeed in rearing the young ones."

In a state of nature the Brambling would not have built its nest upon the ground; the materials used in its construction would probably have been the same.

Whilst on our way towards the north, June 8th, we saw some of the Bramblings in the pine forests of Norway, but searched till we were weary for their nests to no purpose. On our return homewards through the same district, July 1st, we had, however, the mortification of knowing that the nests must have been there, for the birds which we had seen before were now accompanied by their young ones.







*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

## TREE SPARROW.

*PASSER MONTANUS.*

PLATE XLII. FIG. I. AND II.

THE TREE SPARROW is by no means so rare a bird as it has been generally considered by ornithologists. It breeds abundantly in Yorkshire, Derbyshire, and Northumberland, and most probably throughout the northern counties.

Its habits are usually somewhat more retired than those of our common sparrow, choosing for its nest holes in trees, and not in the immediate neighbourhood of our dwellings. A number of nests, found by the Rev. W. D. Fox in Derbyshire, from which he kindly sent me a series of varieties of the eggs, were built either in the holes of large trees, or those of pollard-willows.

When at Cullercoats in Northumberland, Mr. John Hancock took me to an old wall surrounding the gardens of Whitley Hall, in which a number of the Tree and House-sparrows were breeding in common, without any distinction as to habit, locality, or nest.

Mr. Yarrell, quoting the information of the Rev. J. Dimock, says, "These birds frequently build in the thatch of a barn, in company with the house-sparrow, not, however, entering the thatch from the inside of the building like them, but by holes in the outside: five or six instances of this sort occurred in one building, and one or two pairs built upon the farm-house. They also built in the deserted nests of magpies

and crows, in which they formed domed nests, as does the common sparrow, when it builds among the branches of trees.”

From the same source I copy information supplied by the late Mr. Hoy, who says that, on the continent, where this species is rather numerous, they often build their nests in holes in the tiling of houses, and in stacks of wood-faggots.

As I have mentioned above, the nest of the Tree Sparrow does not differ from that of the other species, being like it formed of dry grass, abundantly lined with feathers.

The eggs are four or five in number; are less than those of the house-sparrow, and are usually more oval in form, and wider in proportion to their length; they are commonly more closely mottled throughout with various shades of brown, like the first figure of the plate.

*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

## HOUSE SPARROW.

*PASSER DOMESTICUS.*

PLATE XLII. FIGS. III. AND IV.

ALTHOUGH by no means one of those who would doom his whole race to pitiless destruction, the saucy pert old Sparrow is no favourite of mine, and there are traits in his character which are anything but estimable; many a time have I been sorely tempted to visit some of these birds with vengeance, when for days together, and indeed the whole summer through, I have seen them quietly basking in idleness on a house top, watching the progress that my dear little friends the martins were making with their clay-built nests, and when all has been finished and made snug and complete within, pouncing down upon them with the greatest coolness, and usurping the home which their industry had raised.

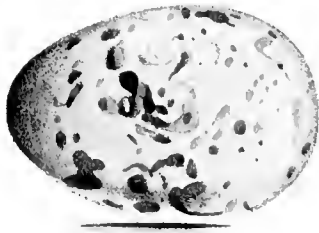
There is a tale told, and it has been revived by Mr. Jesse, in which it is stated, that once upon a time the martins themselves took summary vengeance upon one of these impudent intruders, and mustering in numbers to the rescue, walled the usurper in. The sparrow is, I fancy, armed with too powerful a bill to be thus incarcerated alive.

The Sparrow is no doubt the most destructive of the feathered tribe, and grievous indeed must it be, in some instances, to the farmer, to witness the inroads that they make upon his wheat; he is, however, too apt to forget the services they have done him by the destruction of countless cater-

pillars and grubs, which ought always to be considered in extenuation of the evil they are doing. In many parishes it has long been usual for the overseers to expend a portion of their funds in the destruction of sparrows ; there is, however, a parish near Bristol, the parish of Shirehampton, in which a subscription is got up for the extermination of birds generally, dooming all to destruction for the peculation of a few ; by the farmers, because in their ignorance they believe many of them to be noxious ; and by the gentry because a few of them take a portion of that fruit which was intended by the Creator for the birds as well as them, and because they prefer the pleasures of appetite to the sweet music of the grove. The Sparrow adapts the form of its nest, with singular readiness, to the situation in which it is placed ; this is most commonly in the spouts of houses, in old walls, sheds, and ruins, when it is very loosely put together ; sometimes it builds in, or underneath, the nests of rooks and magpies ; frequently in ivy against a wall, and also in firs and other thick foliaged trees, when its nest is very large and carefully constructed, and covered with a dome ; it is composed of a quantity of straw and hay, and is thickly lined with feathers. The Sparrow lays four or five, and sometimes six eggs ; these vary very much between shades of neutral tint and brown, and are occasionally quite white.



XLIII



*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

GREEN LINNET,

GREEN-FINCH, GREEN-GROSBECK.

*COCCOTHAUSTES CHLORIS.*

PLATE XLIII. FIG. I.

THE nest of the Green Linnet is loosely put together on the outside, which is composed of twigs, roots, moss, and wool, becoming finer and more compact as the structure advances; it is thickly lined with wool, very fine roots and grass, hair, and a few feathers. It may be found in almost every high hedge, in thorn bushes, in hollies, and other evergreens, in ivy against trees and walls, and in one instance I have found it upon a pollard apple-tree. It is most commonly at an elevation of five or six feet or more, rarely lower. The eggs are four or five, and vary but slightly.

Birds in a state of nature rarely lay those mis-shapen lusus-like eggs which are common amongst our domestic poultry. I have one, however, from the nest of the Green Linnet, which is only half the usual size, and quite white, and have seen similar eggs from the nests of several other species.

*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

## HAWFINCH.

*COCCOTHAUSTES VULGARIS.*

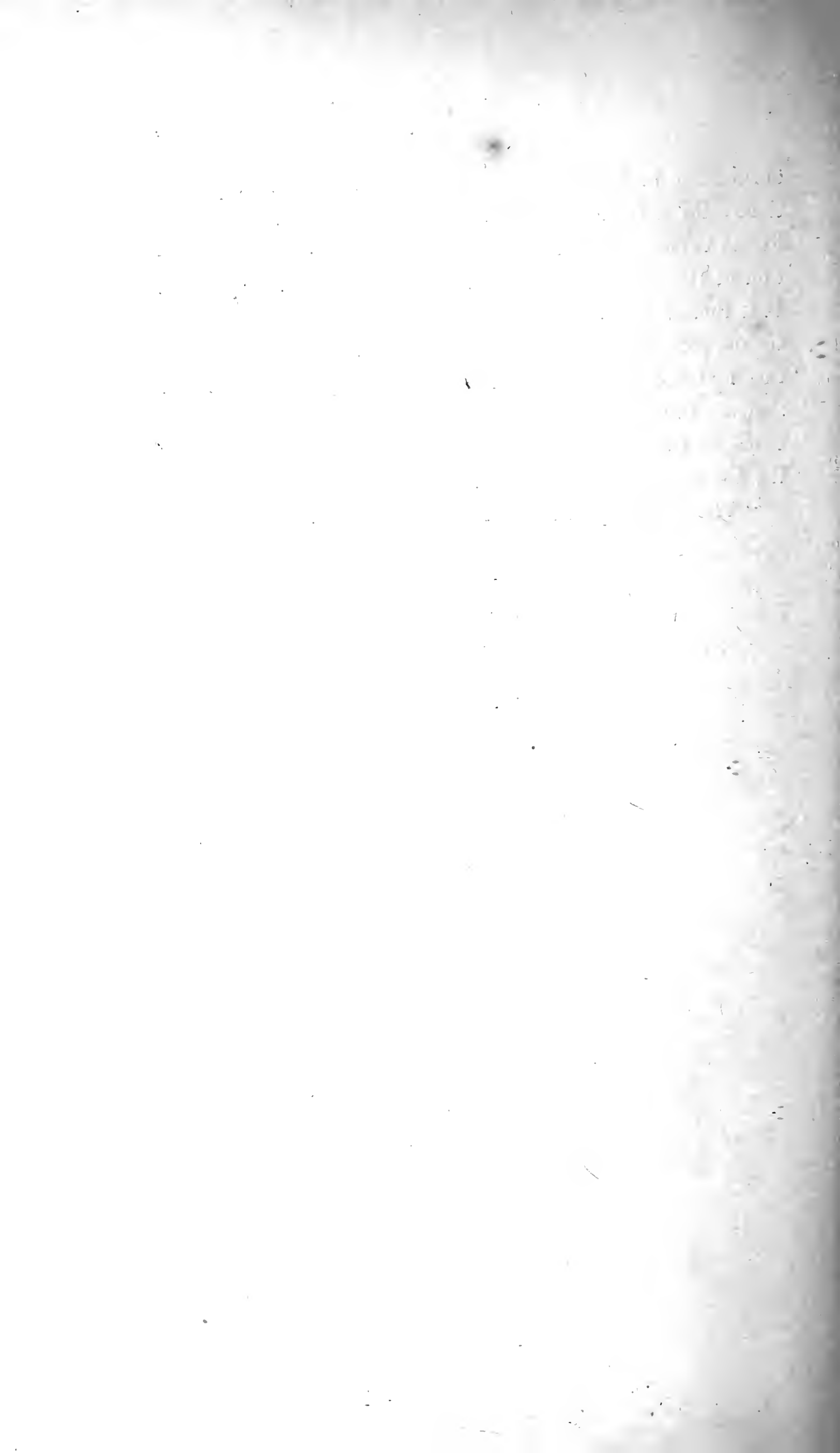
PLATE XLIII. FIG. II.

MR. HENRY DOUBLEDAY, of Epping, had for some years suspected that the Hawfinch must breed in the neighbouring forest, having occasionally seen the birds, and also some eggs of a species then unknown to him, and to his assiduity ornithologists are indebted for the knowledge that this species is indigenous in the country; to his liberality I am indebted for the nest and eggs of this rare bird; it is remarkably shallow, and carelessly put together, being scarcely deeper than that of the ring-dove; in materials it resembles that of the bullfinch, without its nicety of form; it is chiefly of sticks, interspersed with pieces of white lichen, and is loosely lined with roots. Mr. Doubleday has himself favoured the public with his observations on the subject, and these I copy from the Magazine of Zoology and Botany: "Their extreme shyness has no doubt contributed to keep us in ignorance of their habits and economy; in this trait they exceed any land bird with which I am acquainted, and in open places it is almost impossible to approach them within gunshot. About the middle of April they pair, and in a week or two commence nidification. The situation of the nest is various, but it is most commonly placed in an old scrubby whitethorn bush, often in a very exposed situation; they also frequently build on the horizontal arms of large oaks, the heads of pollard



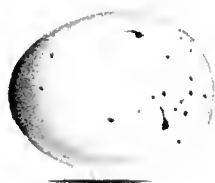
hornbeams, in hollies, and occasionally in fir trees in plantations; the elevation at which the nest is placed varying from five to twenty-five or thirty feet. The most correct description of the nest which I have seen is in Latham's Synopsis. It is there said to be composed of dead twigs of oak, honeysuckle, &c., mixed with pieces of grey lichen; the quantity of this material varies much in different nests, but it is never absent; in some it is only very sparingly placed amongst the twigs, in others the greater part of the nest is composed of it; the lining consists of fine roots and a little hair.

“The eggs vary in number from four to six.”





XLIV



*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

## GOLDFINCH.

*CARDUELIS ELEGANS.*

PLATE XLIV. FIG. I.

I HAVE nowhere seen the Goldfinch so abundant during the breeding-season as it is in the midland counties of Derby, Nottingham, and Leicester, where it is universally known by the absurd name of proud tailor. Most of the gardens and orchards which surround the various villages and farm-houses are their resort during the summer months. The favourite position for their nest in such situations is similar to that chosen by the chaffinch, the bough of an apple or pear-tree; and when in the neighbouring fields that of a low elm. It is also frequently built in evergreens. I remember finding a singularly beautiful nest of this species at the top of a lofty laurel, which, surrounded as it was by the green leaves, very much resembled some of those diminutive nests of the humming bird, which are frequently brought to this country encircled by evergreen leaves; this bush had been the constant resort of the birds, during the cold and protracted spring, for several weeks previous to the discovery of the nest, so that they seem to have made their choice of a site for their nest on their first arrival in the neighbourhood.

The nest is very small, and is sometimes a good deal like that of the chaffinch in neatness of outline, although without its compactness of form; it contains also a much greater proportion of moss in its construction. The outer part is of

moss and roots, closely intermixed and twisted together with wool, and ornamented outside with lichens; it is thickly lined with the soft seed of willows and thistles, mixed with the down of feathers, and a few hairs. The eggs are four or five, and rarely six in number; they vary little, and greatly resemble those of the grey and mountain linnets.

*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

## SISKIN.

### CARDUELIS SPINUS.

PLATE XLIV. FIG. II.

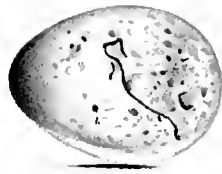
SEVERAL instances of the Siskin's breeding in this country are recorded by Mr. Yarrell. From the information of Mr. Meyer, he says that it has twice built in furze about three feet from the ground, near Coombe Wood, the eggs being taken in both instances and hatched under canaries. It is more frequent in Scotland than in England, for Sir W. Jardine says, that they have bred in a large fir wood at Killin, and also in a wood near New Abbey, in Galloway. Mr. Yarrell says, that Mr. Drew has met with them during the breeding-season on the borders of Loch Fine, and that Mr. Gardiner, of Dundee, has known of a nest and young ones in Camperdown woods, which was built close to the trunk at the insertion of a branch of a spruce-fir, about six feet from the ground; it was composed of materials similar to those used by the chaffinch.

To Miss Fisher, of Eagle Lodge, Old Brompton, I am indebted for the egg from which the drawing is taken; it was laid, together with three others, by a bird which she has had three years in confinement.









*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

COMMON LINNET,  
GREY-LINNET, BROWN-LINNET.

*LINOTA CANNABINA.*

PLATE XLV. FIG. I.

It was long supposed that there were two species under the common name of grey-linnet. We always believed so when at school, for those nests which we used to find in hedges were, for the most part, considerably larger than those built in furze-bushes; there was, too, a great disparity in the size of the eggs, some being so large that when mixed with small specimens of the eggs of the green-linnet, we had difficulty in setting apart those of each species.

In districts where furze abounds it is the favourite nesting resort of the grey-linnet. I have, however, found quite as many of their nests in the hedges of an inclosed country. Mr. Yarrell mentions a nest of this species which was found in a fir-tree ten or eleven feet above the ground.

The nest differs little from that of the green-linnet, except in its having generally a larger proportion of roots, and less of moss in its composition. It is formed of small sticks, stalks of plants, mixed with moss, roots, and wool, and is lined with hair and feathers, with sometimes a mixture of thistle or willow down. The eggs are four or five, and not unfrequently six in number; they differ considerably. The third figure of the plate is as good a representative of some of them, as it is of the egg of the mountain-linnet.

*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

## LESSER REDPOLE.

*LINOTA LINARIA.*

PLATE XLV. FIG. II.

MR. YARRELL mentions Halifax as the southern limit of the Lesser Redpole in this country during the breeding-season. It would appear, however, that it is distributed pretty generally through the midland counties. Mr. Wolley, who lives at Beeston, near Nottingham, informs me that it breeds in his neighbourhood, and that his brother has found its nest near Rugby, in Warwickshire. Mr. Briggs also meets with it near Melbourne, in Derbyshire. In the position of its nest this species differs from those allied to it. Its nest is usually placed, like that of the chaffinch, upon the bough of a low tree, or single thorn, a hazel-bush bordering the outskirts of mountain woods, sometimes in alders by the margin of a stream, and occasionally upon the branches of a crab-tree, when forming part of a high hedge. It is very small, and of the most elegant construction, and is formed of the stalks of plants, roots, moss, and dry grass, with hair towards the inside, and is thickly and most beautifully lined with the catkins of the willow, equalling in whiteness and texture the finest cotton wool. I have found the nest without any of the last-mentioned material, hair, fine grasses, and feathers being substituted in its stead. The eggs are from four to six in number; the time of incubation about the middle of June.

*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

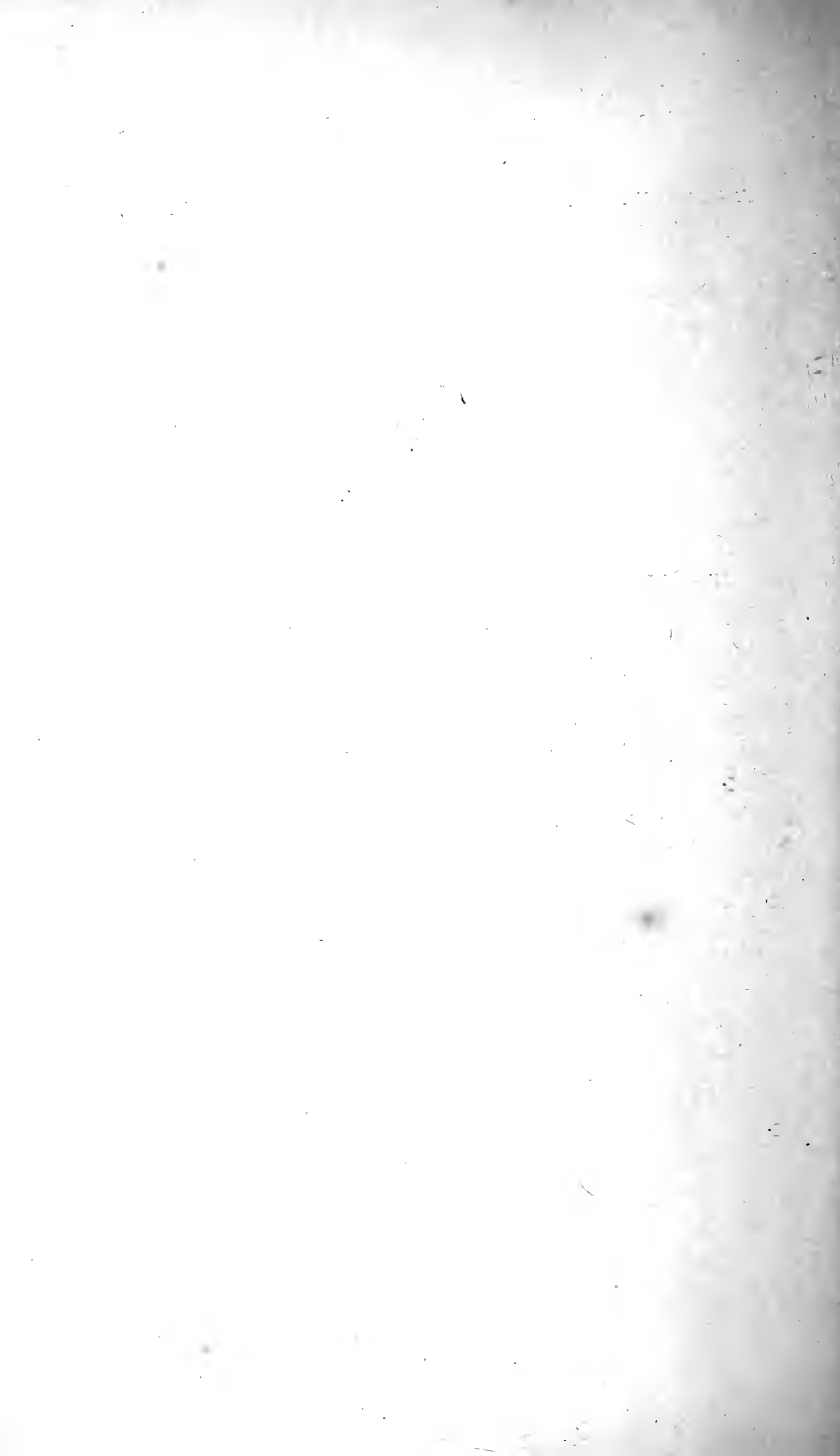
MOUNTAIN LINNET,

TWITE.

*LINOTA MONTIUM.*

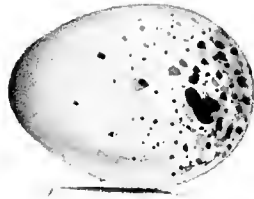
PLATE XLV. FIG. III.

THE MOUNTAIN LINNET, like the lesser redpole, is chiefly confined to the northern portion of this country during the breeding-season. It may then be met with in the wilder districts of the northern counties of England, and in various parts of Scotland. Mr. Salmon found two of their nests in the Orkney Islands: one of these was placed amongst some furze, the other upon the ground amongst the young corn; a singular situation for the nest of a linnct. We found some of their nests upon the bare mountain sides of Shetland, built amongst the long heather. They were composed of heath and dry grass, lined with wool, fine roots, hair, and feathers, and contained four or five, and frequently six eggs.





XLVI





*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

## BULLFINCH.

*PYRRHULA VULGARIS.*

PLATE XLVI. FIG. 1.

You will very rarely see the Bullfinch during the months of summer, unless you seek it in its sylvan haunts, amidst the thickest woods and copses, where it breeds, commonly choosing a blackthorn bush for the reception of its nest. I have rarely seen it in any other situation; it may sometimes, however, be found upon the flat branches of yew and fir-trees. It is composed of moss and roots, lined with wool and hair, and much resembles the nest of the green-linnet, but differs from it in being formed upon a platform of sticks, in which it resembles that of the hawfinch.

The Bullfinch lays four or five eggs, much like those of the linnet, but having a blue ground-colour; it breeds in May and June.

*INSESSORES.*  
*CONIROSTRES.*

*FRINGILLIDÆ.*

## CROSSBILL.

### LOXIA CURVIROSTRA.

PLATE XLVI. FIG. II.

THE kindness of Mr. Arthur Strickland enabled me to figure an egg of the Crossbill in the British Oology. This egg differs very considerably from that with which the liberality of Mr. Yarrell has supplied me for the present work. On the former egg the spots are light, and of the colour of those on the various species of titmouse; the egg now figured is, on the contrary, marked with a depth of colour which distinguishes it at once from the eggs of the green-linnet, to which it bears much resemblance. Mr. Strickland's egg was taken, together with the nest, from the branches of a larch fir-tree, near his residence at Boynton, near Burlington, in Yorkshire, during the summer of 1829. The nest was built of sticks, loosely put together, and crossed in a manner similar to that of the ring-dove, and mixed with white lichens, in the same way as the more clumsily-built nests of the hawfinch.

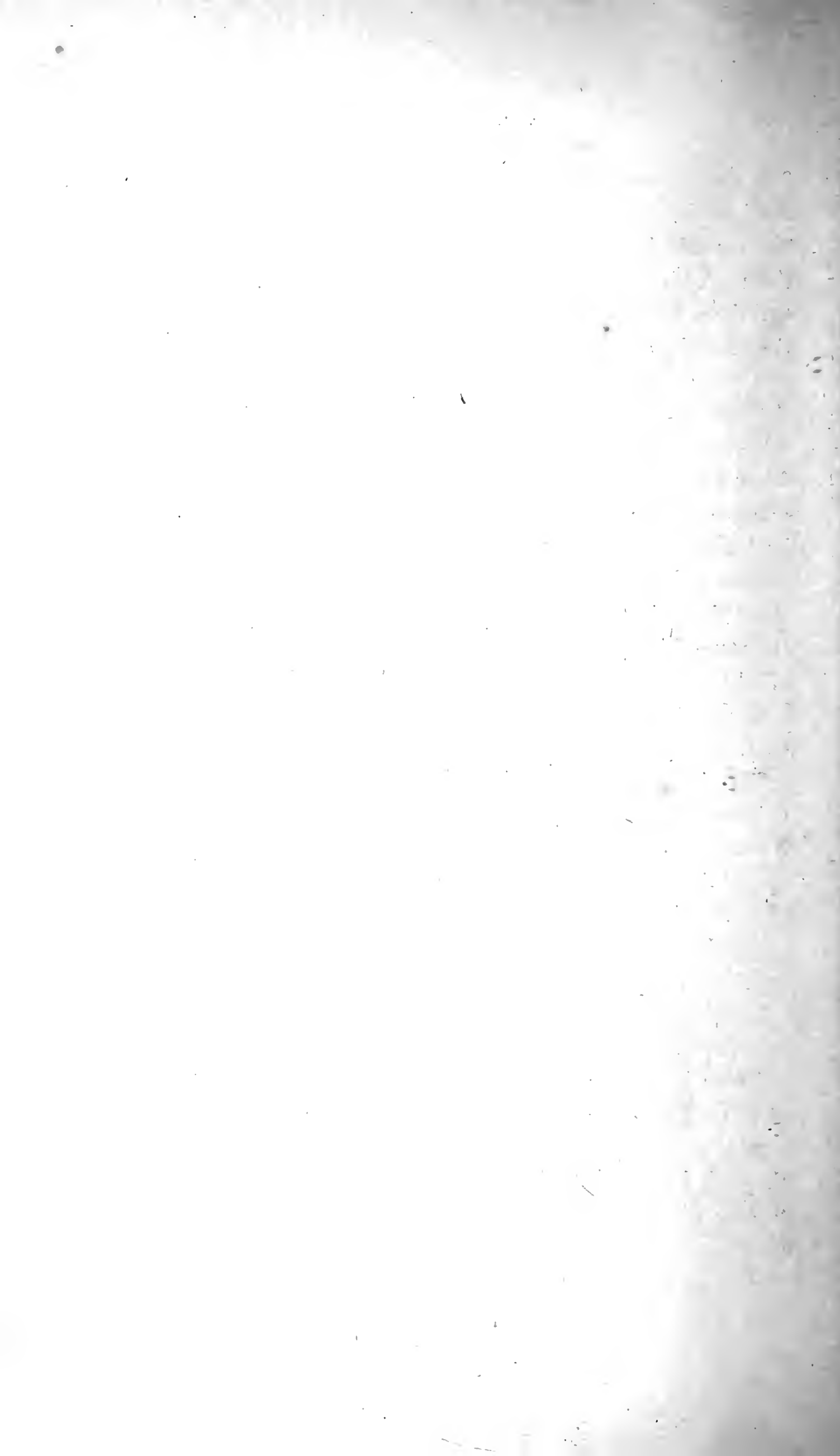
From Mr. Brown, of Cirencester, I have the following very interesting information with regard to two nests of this species, seen by him in that neighbourhood in the spring of 1839. He had been spending the winter in Malta, and did not return home till it was too late to obtain their eggs. One of these nests was placed upon the lower branch of a Scotch fir-tree, about ten feet above the ground, and four feet

from the extremity of the branch. The young ones, two in number, flew from the nest when discovered, and were afterwards watched by Mr. Brown as the old ones came to feed them. This was on the 9th of April, so that the nest must have been built in February, and the eggs laid at the end of that month, or very early in March. "The outside of the nest was a framework of the dry twigs of the larch-fir; from the base all round the sides within that frame, was laid a thick mass of bents, and slender stalks of wild plants firmly felted together with wool; it was lined within with horsehair, nearly concealing the other materials. The outside twigs of larch extended in a loose way from three to five inches round the outside of the nest, on the margin of which, and hanging about the twigs, was a complete mass of the white fæces of the young birds."

The other nest was built in a larch-fir, and was placed close to the trunk of the tree. It contained three young ones.

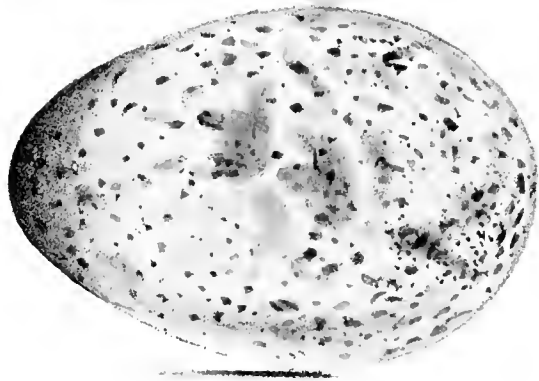
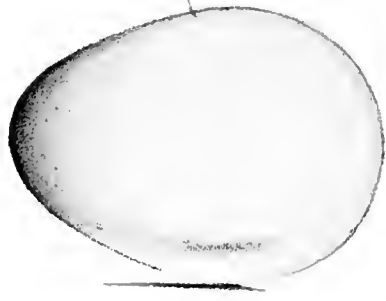
The instances which I have just mentioned confirm the opinion come to by Mr. Selby, that the Crossbill breeds with the earliest spring, or even in winter, from his having killed several in this country early in June, which showed plainly, from the denuded state of their breasts, that they had been engaged in incubation some time previous to their arrival. It also accounts for—what puzzled us at the time—our seeing them whilst in Norway during the months of May and June, always in flocks.

There is no previously-recorded instance that I am aware of, of the Crossbill having succeeded in rearing its young ones in this country. Mr. Yarrell mentions two cases in which the birds have built their nests, without having been allowed to proceed farther. One of these nests was upon an apple-tree.





XLVII



*INSESSORES.*  
*CONIROSTRES.*

*STURNIDÆ.*

## STARLING.

*STURNUS VULGARIS.*

PLATE XLVII. FIG. I.

THE STARLING is an early breeder, and repairs to its accustomed haunts at the end of March, or beginning of April, to commence nidification. It builds its nest of dry grass, in the holes of trees, church steeples, ruins, old walls, and in dwelling houses, in cliffs by the sea-coast, and not unfrequently in dove-cotes, and is in consequence accused of sucking the pigeons' eggs. The female lays four or five eggs, differing a little in size.

The most extraordinary assemblage of birds I have ever witnessed, is the gathering of Starlings at Kingsweston, near Bristol, mentioned by Mr. Yarrell. I have seen more birds at one time at several of the breeding places on the sea-coast, but never beheld so many of one species together. An immense body of Starlings make their roosting-place in the beautiful evergreen plantations, the property of Mr. Miles, and it is a sight well worth seeing to watch them arriving in an evening in dense and compact companies, each many thousand strong. It is strange, too, to hear the confused uproar raised by their noisy squabbles as they perch themselves for the night. You have only to call to mind the din occasioned by a dozen sparrows at bed-time, to have a slight notion of the noise and clamour of a great many thousand Starlings.

*INSESSORES.*  
*CONIROSTRES.*

*CORVIDÆ.*

CHOUGH,

RED-LEGGED CROW.

FREGILUS GRACULUS.

PLATE XLVII. FIG. II.

To the persevering kindness of the Rev. W. D. Fox, I am indebted for the egg from which the accompanying drawing is made, together with the nest, which contained five eggs. The Red-legged Crow is tolerably frequent round the British islands. It abounds on the Isle of Man; is said to breed on the western isles of Scotland; is met with sparingly near Berwick-on-Tweed, and on the coasts of Devonshire and Cornwall. Mr. Fox has also observed them on all the steep rocks and promontories of the Isle of Wight, and on the noble cliffs of the Isle of Purbeck in Dorsetshire. Mr. Henry Doubleday saw them during the breeding-season on the northern cliffs of the Isle of Jersey.

It is, notwithstanding this general distribution, a matter of great difficulty to procure its eggs; and it was not till after some years of fruitless endeavour that Mr. Fox succeeded in obtaining them. They are consequently in few collections, and are misrepresented in some through the knavery of the dealers in birds' eggs, by large specimens of the eggs of the magpie. This difficulty in procuring the eggs, Mr. Fox informs me, arises from the "excessive caution the birds employ in selecting their places of nidification. These are

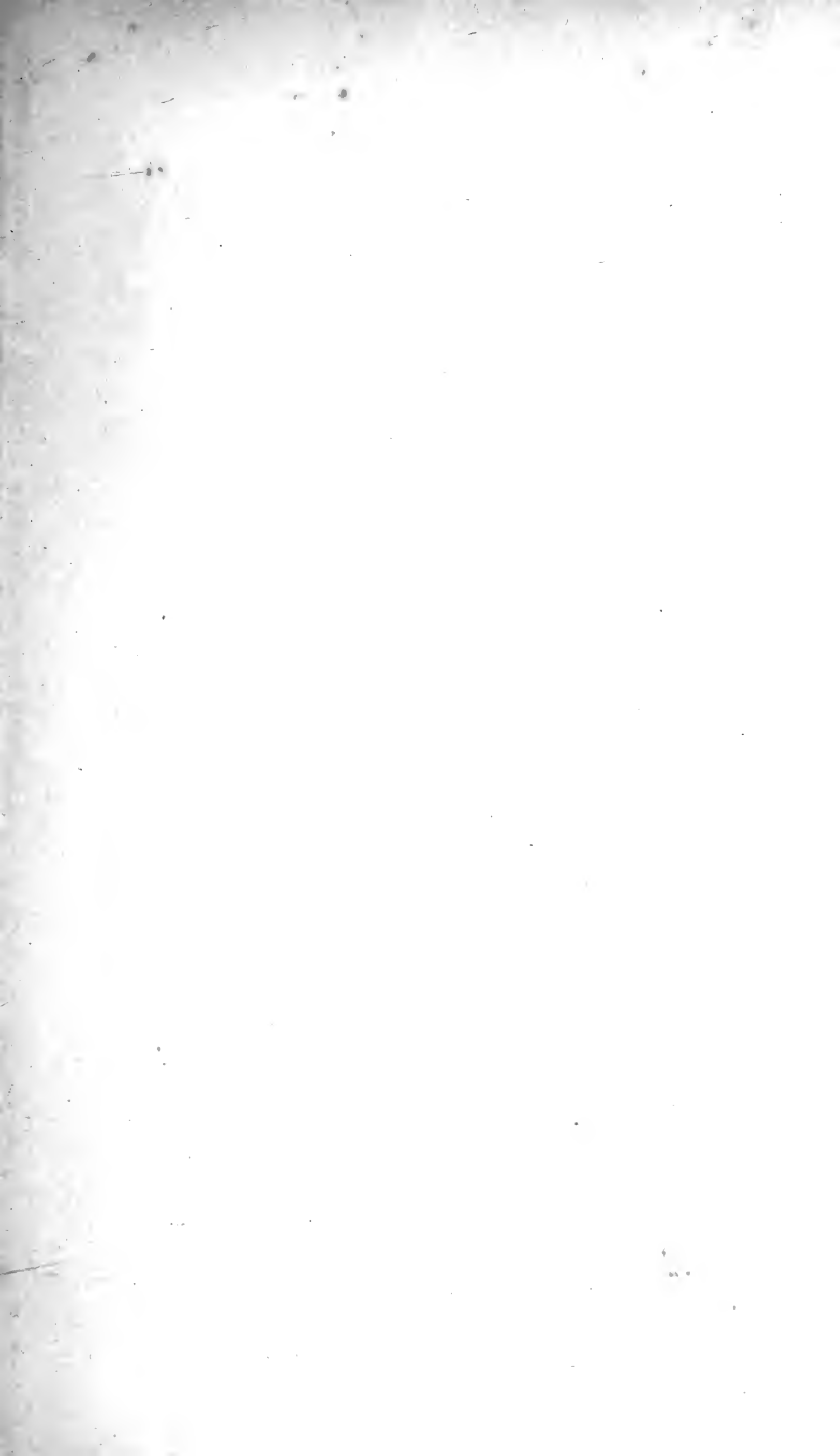


always on the face of the steepest cliffs, and in general in clefts far in ; the passage to which turns at right angles frequently, so that you cannot reach the nest, or even see it." He adds : " I obtained a young one, which I much regretted losing, as he promised to be very clever, and attached to me ; he followed me very well, and seemed to have all the cunning of the magpie." Montague mentions an instance of a pair of Choughs which bred for many years in the ruins of Crow Castle, in the Vale of Llangollen ; and Temminck says that they breed on trees, though rarely.

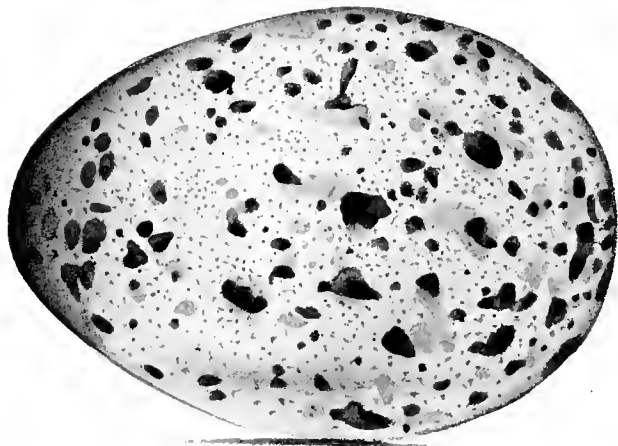
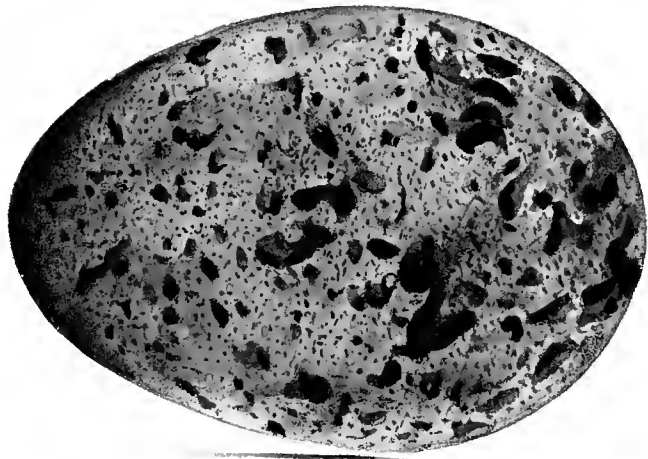
The nest is composed outwardly of sticks, succeeded by a quantity of roots and dry grass, lined with very fine roots, grass, and wool.

All the eggs which I have seen bear considerable resemblance to the plate ; they may be always known from those of the magpie by their greater size and the yellowish tint in some of the spots.





XLVIII



*INSESSORES.*  
*CONIROSTRES.*

*CORVIDÆ.*

## RAVEN.

*CORVUS CORAX.*

PLATE XLVIII.

THE RAVEN, which a few years ago used to breed in old ruins, and even in some of our church-steeple, is now only to be met with far distant from man's abode, leading a solitary and persecuted life: it is in consequence one of the shyest and most wary birds in this country. In Norway, on the contrary, where the feathered tribes are loved and cherished, they so abound that we at one time counted as many as eighteen together; there they are pert and confident, and would frequently remain quietly seated till we had passed them at a distance of a few yards. On one island which we visited we saw several of their nests in a large sepulchral-looking cave, peculiarly suitable as the residence of birds which, in some districts, are regarded as of ill-omen.

At home the Raven breeds in the most wild and inaccessible districts, building its nest, for the most part, in the steepest cliffs upon the sea-coast, sometimes, when inland, upon lofty trees. They have for a great many years been known to breed in the mausoleum at Castle Howard, in Yorkshire; and Mr. J. Tuke tells me they still resort thither.

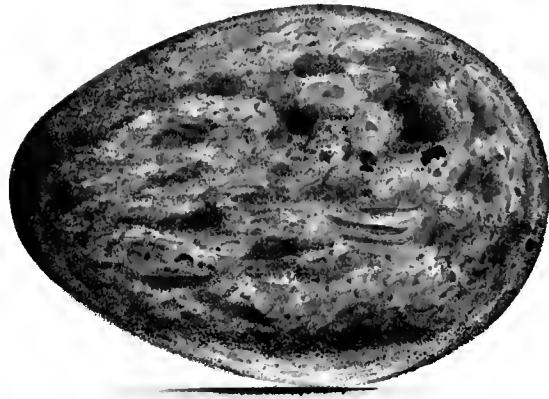
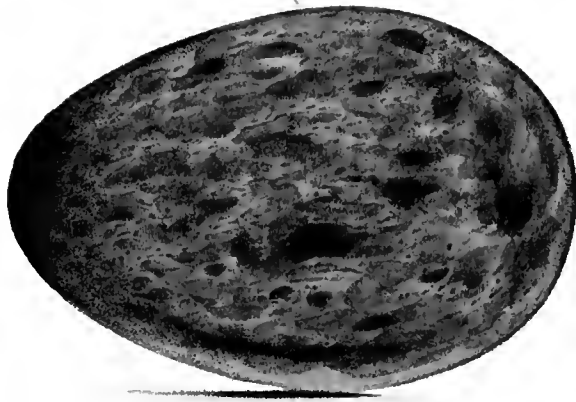
The nest is large, and composed of sticks plastered toge-

ther with mud, and lined with a quantity of roots, wool, and the fur of animals.

The Raven is one of our earliest breeders, and frequently rears its young ones under some of our most inclement skies. The eggs are four or five in number.



XLIX





*INSESSORES.*  
*CONIROSTRES.*

*CORVIDÆ.*

CARRION CROW,  
CORBIE CROW, BLACK NEB.

*CORVUS CORONE.*

PLATE XLIX. FIG. I.

SOME years ago a controversy took place between Mr. Waterton and Mr. Rennie, with regard to the habits of the Carrion Crow—Mr. Rennie maintaining that the bird is in the habit of covering its eggs during absence, and Mr. Waterton denying the correctness of the statement. Mr. Waterton, as is well known, has spent much of his life amongst the feathered tribes, either in this country or abroad. When at his own residence, no one, perhaps, has so good an opportunity as he has of studying the habits of our British birds, for all the most persecuted tribes of which, his park is a refuge and a home; there the hawk, the crow, the owl, and the magpie, are alike unmolested.

It was always, at school and for many years after I left it, a habit with me to look into every bird's nest within my reach, and I have very rarely passed the nests of the magpie or the crow without indulging myself with a peep at their contents, but I have never seen the eggs of the latter covered, as mentioned by Mr. Rennie.

The Carrion Crow builds its nest in trees, sometimes in a thick fir-tree; it is built of sticks, strongly cemented together with clay; it is then lined with roots, and afterwards with a large quantity of wool, the fur of animals, and other soft

materials, often two or three inches thick. The eggs are four or five in number, and greatly resemble those of the raven, the hooded crow, and the rook. From those of the rook it is at times very difficult to distinguish them; they are, however, usually a good deal larger. They vary much from the deeply-coloured egg of the plate to a light tinted variety, similar to that of the raven. I have some that are of a light blue, without any spots whatever, marked here and there with undertints of grey.

In 1832 a pair of these birds took a singular fancy into their heads: deserting the habits of their forefathers, and the society of their species, they repaired to one of the Fern Islands to breed, apparently thus subjecting themselves to very great inconvenience. Contrary to their usual habits, they built their nest upon the ground, there being no trees on the islands; it was of most curious construction, and instead of the sticks of which it is in other instances composed, which the neighbourhood would not supply, the outside of the nest was formed of small pieces of turf, neatly laid upon each other, and formed into a compact wall; the space within was lined with a quantity of wool, which was all brought from the mainland, at the distance of four or five miles.

*INSESSORES.*  
*CONIROSTRES.*

*CORVIDÆ.*

## HOODED CROW,

ROYSTON CROW.

*CORVUS CORNIX.*

PLATE XLIX. FIG. II.

THE HOODED CROW is a rare bird in England during the summer months; a few instances only being recorded in which it has remained so far south to breed. It is, then, not uncommon in Scotland, and is sparingly dispersed through the Orkney and Shetland Islands. The Hooded Crow has been known to breed near Scarborough, and also in the neighbourhood of Berwick-on-Tweed. It seems to accommodate itself with indifference as to the position of its nest. In Scotland it is found, according to Mr. Selby, in trees, rocks, and precipices on the sea-shore. In Shetland, where trees do not exist, and it would be as difficult to find a stick, the Hooded Crow builds its nest upon the cliffs, or single rocks, stacks as they are there appropriately called, which are surrounded by the sea; and resorts to the same substitute as the eagles, forming it of the long and very flexible branches of the larger sea-weeds, and lining it with quantities of dry grass, wool, hair, and other soft materials.

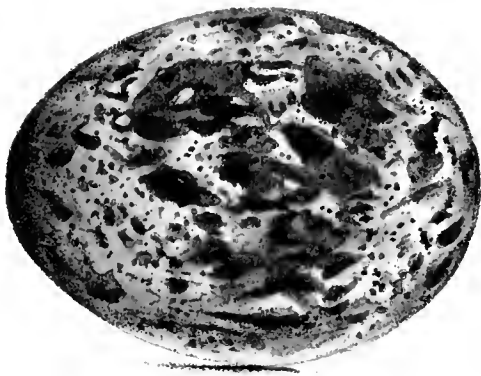
In Norway they inhabit here and there the boundless forests, but never at any great distance from the sea, arising probably from their partiality to shell-fish. On one of the islands at sea we found a solitary pair of Hooded Crows, which had got their nest in a rock, in the very camp of their

enemies the sea-gulls, which took every possible opportunity of annoying them, and, upon our driving one of them from the nest, persecuted it without mercy. One of the eggs was hatched, and another just chipped. We wished much to obtain the shell without causing the death of the young one; and, in order to accomplish this, my companion, Mr. John Hancock, performed the accouchement most admirably with a lancet, leaving the young Crow sprawling uninjured at the bottom of the nest.

The eggs are four or five in number, and do not differ from those of the carrion crow and rook, except in size. In shape and colour they are more nearly allied to those of the rook, and are subject to the same jackdaw-like variety as the other species.



L



*INSESSORES.*  
*CONIROSTRES.*

*CORVIDÆ.*

## ROOK.

*CORVUS FRUGILEGUS.*

PLATE L. FIG. I.

THE ROOK is one of those birds which, courting the society of man, has become almost as familiar to us as the domestic poultry which we rear.

Its noisy presence in the spring adds one of the great charms to a country life; and how much of the venerable respectability of some of the finest old halls and mansions in our land would be lost without it!

The old rookery, which has for centuries been the gathering-place of generations of these birds, is almost as inseparable in our ideas from some of the old homes of England, as the stately avenue by which we approach them.

During the first bright days which foretell the early opening of the spring, when the thrush alone has hailed its approaching glories with a glad song of welcome, the cheerful cawing of the Rooks, as they take possession of the well-known trees, breaks upon the ear, which is open to the simple music of nature, with a peculiar charm.

The jealous bickerings which take place, as each one is anxious to secure to itself some favourite bough, the frequent fights which occur before a proper understanding is established amongst them, and the general attack upon and destruction of the nest of some one which has broken the

laws of the community,—all may afford scenes of constant amusement.

The thieving propensity, so curious a characteristic of the genus, of which the Rooks inherit their full share, leading them to pilfer from each other's nests, is, too, the source of many a broil in the rookery.

That the Rooks have laws amongst themselves, by which to regulate the society, the following anecdotes, given by Mr. Jesse, will sufficiently point out. Speaking of the Rooks at Hampton Court, he says, they are very particular that none of the society build away from the usual line of trees. A pair did so one spring; and, when their nest was finished, at least fifty others came and demolished it in a few minutes.

He mentions another instance of a pair of birds which, though only separating themselves so far from the rest of the community as to build their nest in the lower branches of the same trees, were nevertheless pertinaciously persecuted by the others; having their nest destroyed by them no less than twenty-two times before they were permitted to complete it. He adds, that he has always observed that, if a pair of Rooks attempt to make their nest apart from the rest of the fraternity, and in a tree not used by them before, the other birds invariably pull it in pieces.

It is not to the rookery alone that their presence imparts an interest. They may be watched as they scour the country round in search of materials for their nests, visiting each tree in its turn, and breaking off and rejecting numerous branches, till the one suitable to their purpose is obtained. The elm, the branches of which are pliable and easily broken off, is their favourite tree, and of its twigs their nests are chiefly formed. I have many times watched them when overladen with too large a branch, after many an ineffectual struggle to reach their nests, borne away headlong before the wind, till at last compelled to let it drop.



It is, too, an interesting sight in the neighbourhood of a large rookery to watch these birds as they homeward wend their way in an evening after a long day's forage in the fields ; and to mark, as I have often done, the exactitude with which, for a number of evenings together, they will keep to the self-same track, and vary that track according to the season of the year. I was led to notice this more particularly by being told by some friends of mine, who had observed them for many years, that at one season of the year, the spring, the Rooks invariably make their homeward flight so nearly above their residence as to be just seen from the front windows ; and that, in the autumn, they always go a little behind the house.

Amongst our farmers are to be met with some of the most ignorant and prejudiced of men, and to that ignorance is to be attributed the most unjust and, to their own interest, detrimental persecution that the Rook has met with at their hands.

That it does occasionally consume a portion of the grain after it is sown, there can be no doubt ; but the injury to the forthcoming crop has been far more than counterbalanced by its destruction of grubs when the field was ploughed. In one instance which I will mention—for I have no wish to do them more than justice—their consumption of the seed-corn had been very considerable. This was, however, during a season which, remarkable for its drought, had caused a scarcity of their usual food, and was a rare instance, there being no notice of this habit of the Rook of which I am aware, with the exception of one during the same spring, in the Magazine of Natural History. I had occasion to visit a rookery for the purpose of obtaining varieties of the eggs to draw ; and, when looking out for the tree which presented the fewest difficulties to climb, I was much surprised by observing the ground beneath them strewed with pellets

composed of the shell of the oat, and similar to those disgorged by owls. In quantity they would have filled some bushels; but it must be remembered that these were gathered from many a hundred acres round.

The time at which the Rook meets with the bitterest persecution is just when it is doing the greatest good, and, when mercilessly shot down by the ignorant farmer, is heaping coals of fire on his head.

I remember once having pointed out to me by a farmer, who lives near Alnwick, one of his fields which was then black with Rooks; and, to prove to me the mischief they were doing him, he led me to the spot. It was a grass field, and, sure enough, the place bore evidence of destruction; its lovely green was gone, and scarcely a blade of grass remained standing. The Rooks had pulled up the entire surface of the already dead turf, and were regaling themselves upon the myriads of grubs which now lay beneath it, which had done all the mischief by eating the roots of the grass asunder; and, but for the timely interference of these useful birds, another summer's increase of their ranks would have enabled them to carry devastation far and wide.

Mr. Apperley, who farmed a property attached to one of the largest rookeries in this country, at Bilton Hall, near Rugby, thus witnesses in their favour: "So large, indeed, is this rookery, as to have given the name of 'Bilton Rook Feast' to a kind of wake held in the village at the time the young birds are considered fit to eat. Independent of the climbers, the gamekeepers of several neighbouring gentlemen used to attend with their guns; and I have known upwards of a hundred dozen birds taken of a morning. I am, however, enabled to say that, numerous as these birds were, I never found injury from them to my crops."

Rooks seem greatly to prefer those trees which are lofty, and near some dwelling. At times they, however, deviate

rather whimsically from their usual habits. There are several instances of their building in trees of a lower growth, as in the case of a rookery, mentioned by Mr. Rennie, in the Duke of Buccleuch's grounds at Dalkeith, where they built in young oak-trees, none of which were more than ten or twelve feet high, although large trees were abundant in the neighbourhood.

There are a few trees in one of the streets in Newcastle, which have long been crowned by the nests of these birds; but, during the spring of 1832, several pairs, dissenting from some of the proceedings of the community, left their ancestral trees, and built their nests amongst the smoky chimneys of the nearest houses. But, perhaps, the most remarkable instance in ornithological architecture is that mentioned by Bewick of the pair of Rooks which, for ten successive years, built their nest and reared their young ones on the weather-cock of the Exchange spire, turning about with every change of wind.

The nest of the Rook is built of sticks cemented with clay, mixed with tufts of grass, and is lined with roots. The eggs are four or five in number, and vary much, the jackdaw-like variety being not uncommon.

*INSESSORES.*  
*CONIROSTRES.*

*CORVIDÆ.*

## JACKDAW.

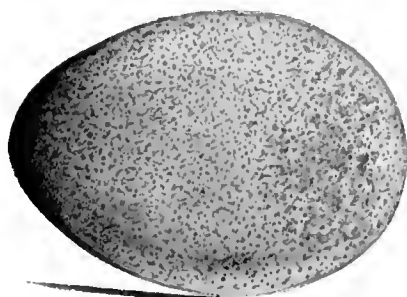
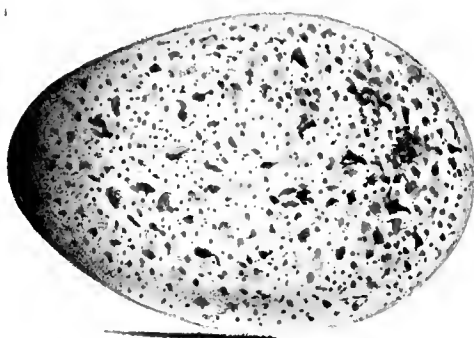
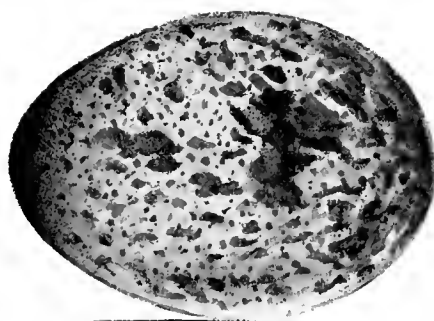
*CORVUS MONEDULA.*

PLATE L. FIG. II.

THE JACKDAW builds its nest in many opposite situations ; most commonly in holes of ruins, in lofty church steeples, being numerous in our cathedrals ; in cliffs and precipices, and sometimes in holes of decayed trees. In addition to these localities, a most curious instance is mentioned by White in his History of Selborne, in which he states that a race of these birds took it into their heads to breed in the burrows of a rabbit-warren.

The nest is composed of sticks, lined with wool, dry grass, and such like materials. The eggs are four or five in number, and do not differ materially.





*INSESSORES.*  
*CONIROSTRES.*

*CORVIDÆ.*

## MAGPIE.

PIANET.

*PICA CAUDATA.*

PLATE LI. FIGS. I. AND II.

THIS elegant and well-known bird is another of those which are in this country doomed to the most exterminating destruction, because they exercise those instincts which are implanted in them by the God of nature. It has become with us, in consequence of its persecuted life, and contrary to its natural disposition, one of the shyest and most wary birds we meet with: a little of its nature will, however, even here prevail, in its selection of those trees for its nest which are near some human dwelling. In Norway, a country where it meets with nothing but kindness, it is upon the most familiar terms with the natives. In the town of Drontheim it builds its nest under the eaves of their warehouses, and on their churches; upon the roofs of which, and the surrounding tombstones, a dozen of them may be seen at one time.

In the country, and even upon the islands adjacent to the coast, we scarcely saw a single house without two or more of these lively birds, which commonly build their nests under the very eaves, or in some stunted tree close by, where the nests are piled upon each other for many feet in depth, the accumulation of the undisturbed and quiet possession of many years.

We were always delighted with the kind feeling evinced by the inhabitants of Norway towards the feathered race: in some of their houses, holes are cut for the admission of the starling; against others pieces of wood are nailed to support the nest of the house martin. At Christmas, too, sheaves of corn are placed upon the roofs of their houses, that their feathered friends may join in the general festivity of the season. It is in consequence of this kindness that the Magpie walks into their houses with pert confidence. In no instance did we see one in the forests far from man's dwelling-place; on the contrary, its appearance was always a sure and welcome sign of our vicinity to some house.

The Magpie builds its nest for the most part in trees; sometimes in thorn-bushes and hedges, at a few feet only from the ground. The Rev. J. Hall gives the following interesting account of a nest of these birds which he met with in Scotland. "On the road between Huntly and Portsoy I observed two Magpies hopping round a gooseberry-bush in a small garden, near a poor-looking house, in a peculiar manner, and flying out and into the bush. I stepped aside to see what they were doing, and found, from the poor man and his wife, that these Magpies for several successive years had built their nest and brought up their young in this bush, and, that the foxes, cats, &c. might not interrupt them, they had not only barricaded the nest, but had encircled the bush with briars and thorns in a formidable manner."

Some have supposed that those Magpies which build their nests in hedges are of a distinct species, and Mr. Wilmot tells me that he has usually noticed that their eggs were less; my own experience does not corroborate his observation. In firmness of texture and strength of construction, no piece of architecture of like materials can at all vie with the nest of the Magpie: its outside is of thorns arched over, and so compactly put together, that it is by no means an easy matter to



force an entrance for the hand, except at the proper doorway ; the state of my hands during bird-nesting time at school would have frequently borne evidence of the fact. The nest is so thickly cemented at the bottom, and plastered inside with clay, that, when placed at the top of a high tree, shot will scarcely penetrate it ; the lining is composed of fine roots : the eggs are six or seven, and rarely eight in number ; they differ, as the Plate will show, much, both in colour and in size.

*INSESSORES.*  
*CONIROSTRES.*

*CORVIDÆ.*

## JAY.

### GARRULUS GLANDARIUS.

PLATE LI. FIG. III.

THE harsh cry of the Jay, “discordant heard alone,” if not disagreeable, is to myself, at least, unaccompanied with any of those delightful sensations which the wild wood-note of every other bird never ceases to impart. I speak in ignorance of the more agreeable notes mentioned by Montagu, never having heard any other than the loud, peevish, quarrelsome sort of cry which it mostly utters. The Jay is at all times a very shy bird, and difficult to approach. It hides, during the breeding-season, in the thickest and least frequented part of our woods, and builds its nest upon the boughs of a low tree. It is formed of sticks, lined with fine roots, and is in some instances very compactly put together.

The eggs are from four to six in number, and differ considerably; but, as from their size they cannot easily be mistaken for those of any other bird, I have not thought it necessary to figure any of the varieties: they are frequently much darker, as well as lighter, than the Plate; are sometimes much browner in their colouring, and not unfrequently encircled towards the larger end with a distinct ring of darker spots; in some instances, this ring is near the smaller end.



LII



*INSESSORES.*  
*SCANSORES.*

*PICIDÆ.*

## GREAT BLACK WOODPECKER.

*PICUS MARTIUS.*

PLATE LII. FIG. I.

To the several instances mentioned by Mr. Yarrell, in which the Great Black Woodpecker has been seen in this country, I may add one, communicated by Mr. T. Meynell of York, who says that he well remembers having seen a pair of these birds in the pleasure-grounds attached to the Friarage, his father's residence at Yarm, in Yorkshire.

We saw them but twice in the Norwegian forests, looking, when flying at a short distance, much like a crow; their nesting-places were like those of the other species, in holes in the trunks of trees. The eggs are, according to Temminck, three in number; they are, like those of all our species of woodpeckers, of a pure white and glossy, as though they had been varnished. To the kindness of Mr. Wilmot I am indebted for the use of this rare egg to draw.

*INSESSORES.*  
*SCANSORES.*

*PICIDÆ.*

## GREEN WOODPECKER.

RAIN-PIE.

PICUS VIRIDIS.

PLATE LII. FIG. II.

THE GREEN WOODPECKER very soon makes known its neighbourhood by its loud and very singular cry, which is the more remarkable in rainy weather; the loud laughing note which it then utters has often almost reconciled me to a wet jacket.

The Green Woodpecker builds its nest in the trunks of trees, frequently at a considerable height above the ground. In Norway, where the churches are chiefly of wood, we noticed one of these birds, which had chosen for its nest the elevated situation of the spire, in the side of which it had most irreverently bored its hole.

This hole is frequently so small that the eggs are accessible only after the long and laborious use of the hatchet; they are four or five in number, and are laid upon the fine particles of the rotten wood which remain at the bottom of the hole.

*INSESSORES.*  
*SCANSORES.*

*PICIDÆ.*

## GREAT SPOTTED WOODPECKER.

PICUS MAJOR.

PLATE LII. FIG. III.

THE GREAT SPOTTED WOODPECKER is either a rare or local bird, or one which most effectually evades the sight; for much as I have been out in the fields, and always on the look-out for such things, it has very rarely been my lot to see it alive, and I have eagerly looked for it in places where the green woodpecker and wryneck were very abundant.

Never having myself seen a nest of this species, I have recourse to the information of Mr. H. Doubleday, of Epping, who is ever on the look-out for anything curious in natural history, and ever ready liberally to impart to others the information thus gained. He notices the rarity of the bird even there: "The Great Spotted Woodpecker is a rare bird here, and I have seen only three of their nests; these were all in the horizontal branches or arms of oaks, where a smaller branch had been broken off, and the part had decayed; the place was carefully plastered up, so as only to leave a hole just large enough for the bird to enter; in one instance, where the arm was hollow, the nest was nearly three feet from the opening. The eggs, five in number, were laid upon the bare wood, which was decayed and soft."

*INSESSORES.*  
*SCANSORES.*

*PICIDÆ.*

## LESSER SPOTTED WOODPECKER.

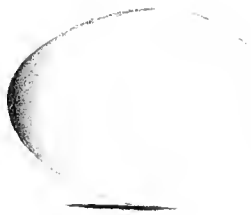
PICUS MINOR.

PLATE LII. FIG. IV.

LIKE the closely allied species preceding, the Lesser Spotted Woodpecker breeds in the holes of trees, laying its eggs, which are, according to Montagu, five in number, upon the bare rotten wood, and sometimes at a considerable distance from the entrance of the hole.







*INSESSORES.*  
*SCANSORES.*

*PICIDÆ.*

WRYNECK.

YUNX TORQUILLA.

PLATE LIII. FIG. I.

THE cry of the Wryneck is as singular as that of the green woodpecker, and, in some instances, very closely resembles that of the kestrel hawk. It makes its nest in the holes of trees, and seems partial to those of the apple-tree, chiefly frequenting orchards during the breeding season : it usually lays seven eggs, and, Montagu says, extends them to nine or ten in number. Mr. Salmon mentions a remarkable instance, in which he took no less than twenty-two eggs from a nest of this bird, robbing it of the eggs at five different times.

*INSESSORES.*  
*SCANSORES.*

*CERTHIADÆ.*

## CREEPER.

*CERTHIA FAMILIARIS.*

PLATE LIII. FIG. II.

THE eggs of the Creeper resemble almost as closely those of the blue and marsh titmouse, as some of the eggs of the nuthatch do those of the greater titmouse; they are, however, usually rather longer in proportion to their breadth, and have the spots more concentrated at the larger end: if mixed with eggs of the titmouse, and even with some of those of the willow-wren, it would be very uncertain work to separate them.

The Creeper builds in holes of trees, in such places as those out of which a branch has been torn, or where the bark protrudes from the tree, leaving sufficient room behind it. White mentions a nest which was built against a house-end, behind some loose plaster.

The nest is formed of dry grass and bits of moss, very loosely put together, and lined with feathers. Mr. Yarrell thus describes one of which he has added a drawing in his work. It is formed, on the outer surface, with small twigs, within which there is a thick layer of fine grass, mixed up and lined with black wool and a few small dark-coloured feathers.

The Creeper breeds early, and lays from six to nine eggs.

*INSESSORES.*  
*SCANSORES.*

*CERTHIADÆ.*

WREN,

KITTY WREN.

TROGLODYTES VULGARIS.

PLATE LIII. FIG. III.

THE nest of the Wren is of an oval form, arched over, and protected on every side. It is a most beautiful specimen of strength, warmth, and neatness, and so compact and closely interwoven that one in my collection might be kicked about the floor without much disarranging or disuniting those minute particles of moss of which it was first formed. It is usually constructed of green mosses and, from its close resemblance to the situation in which it is placed, is admirably protected from discovery. Its position is most commonly against the moss-grown side of a rock, a bank, or an old tree, in the decayed side of which the nest is formed; and, were it not for the small hole of entrance, would be regarded as only a portion of the tree. I have found it in the middle of a furze-bush, and constructed chiefly of dry grass, sometimes covered outside with ferns; and not unfrequently against the side of a clover stack, formed entirely of the clover, and so becoming a piece of the stack itself; and, were it not for the flight of the bird from the spot, it would have run no risk of detection.

No bird is so jealous of the discovery of its nest as the Wren. Amongst a great number of nests which I have found in the progress of building, I have never known one

proceeded with after having been once discovered and touched, it being quite impossible to thrust the finger into the tiny hole of entrance without disarranging the neatness and beautiful symmetry of its form. This I have always found to cause its abandonment by the owner, and may readily account for the number of unfinished nests, which we used at school to call "cocks' nests," supposing that they were built by the male bird for its own particular abode.

When incubation is proceeded with, and the eggs have been sitten upon for some time, the Wren, like all other birds, becomes much more attached to them, and is not then so easily driven to forsake them. The Rev. W. D. Fox has communicated to me a most remarkable instance of this attachment in one which would suffer its nest to be taken in the hand and examined, remaining the while quietly seated on its eggs.

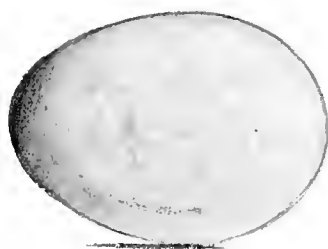
The Wren is a solitary, hardy little bird, and may be seen on some of our bleakest and most unsheltered districts. We saw it on some of the most sterile heaths of Shetland; the only support for its nest being the bank of some mountain gully, its only shelter the overhanging sod.

Notwithstanding the number of eggs which the Wren has been said to lay, I have never succeeded in finding more than eight, and rarely more than seven, in the same nest. They are sometimes more spotted than the Figure, and are not unfrequently quite white.

Ornithologists differ as to the inside of the Wren's nest; some maintain that it is thickly lined with feathers, whilst others deny that it has any in its composition. I have found it both with and without such lining, but think that it is most frequently finished with a few feathers.



LIV





*INSESSORES.*  
*SCANSORES.*

*CERTHIADÆ*

## HOOPOE.

UPUPA EPOPS.

PLATE LIV. FIG. I.

MONTAGU mentions an unfinished nest of the Hoopoe, which was found in Hampshire; Mr. Blythe says that a pair frequented a garden in the neighbourhood of Tooting, Surrey, in the summer of 1833; and Mr. Jesse says, that, some years ago, a pair of Hoopoes built their nest and hatched their young in a tree close to the house at Park-end, near Chichester. The best account of the summer habits of the Hoopoe is by Mr. E. H. Greenhow of Tynemouth, which I have transcribed from the seventh volume of Loudon's Magazine. "On the Bordeaux side of the Garonne, and near the city, are large spaces of marshy ground, intersected by broad ditches and creeks, terminating in the river; where, from the advantage derived from the water, many poplars and willows are planted for the sake of the twigs, which are much used for tying vines. These trees being topped at about ten or twelve feet from the ground, so as to induce them to sprout much, become very thick; and, in the course of a few years, gradually decaying at the centre, are attacked by numerous tribes of insects. In these retired places, which are frequented only by a few cowherds and country people, the Hoopoe, which is a very shy bird, may be frequently observed examining the rotten wood, and feeding on the

insects with which it abounds. The Hoopoe flies low, and seldom unless when disturbed, its food being so abundant as to require little search. It remains the whole year, and breeds in a hollow willow about the end of May, laying two eggs. The young come out in June.”

*INSESSORES.*  
*SCANSORES.*

*CERTHIADÆ.*

NUTHATCH.

SITTA EUROPEÆ.

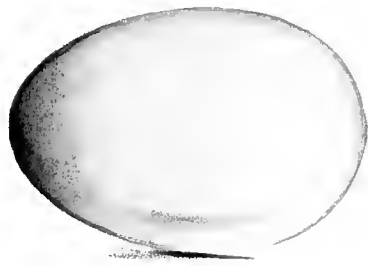
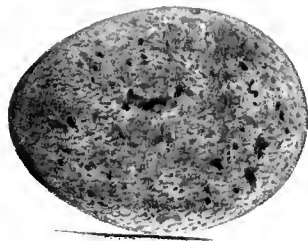
PLATE LIV. FIG. II.

THE NUTHATCH, like the woodpeckers, breeds in holes of trees, the entrance to which is admirably protected and contracted by a plaster of clay, till it is just sufficiently large to allow the ingress of the bird. This entrance it defends against its enemies with the greatest courage; making a hissing noise, like the blue titmouse, when attacked. The nest consists of a few dry leaves, with sometimes a little grass. Its eggs are from five to seven in number, and, in some of their varieties, very much resemble those of the greater titmouse; others are marked with large blotches of red and grey, and are sometimes of an oval form, much blunted at the smaller ends.





L.V



*INSESSORES.*  
*SCANSORES.*

*CUCULIDÆ.*

## CUCKOO.

### CUCULUS CANORUS.

PLATE I.V. FIG. I.

So much is already known of the singular and apparently unnatural way in which the Cuckoo deserts its egg after laying it in the nest, and leaving it to the care, of another and a strange bird, that I have not thought it necessary to repeat the often-quoted and interesting observations of the late Dr. Jenner; neither have I any original ones of my own to offer. It would, however, have afforded me much pleasure could I have thrown any light on these interesting points with regard to the economy of this bird,—what number of eggs it lays in one season, and whether or not it ever carries its egg, after having laid it, to the nest of another bird. Mr. Williamson, of Scarborough, informs me that he has found the egg of the Cuckoo in the nest of the rock-lark close under the projecting shelf of a rock, and in a situation where he considers it impossible for the Cuckoo to have deposited it in any other way. La Vaillant, in his Travels in Africa, mentions having in many instances shot a species of Cuckoo in the act of thus transporting its own egg in its mouth.

The eggs of the Cuckoo are found in the nests of several of our small birds. Of these, Mr. Yarrell enumerates thirteen species, to which I have to add the name of the grasshopper warbler. The egg has been found also in the nests of some of the larger species,—the thrush, the black-

bird, and the red-backed shrike. The Cuckoo seems, however, instinctively to prefer those, the eggs of which most nearly resemble its own. Amongst these are the larks, pipits, and the pied wagtail, to the eggs of which some light varieties of those of the Cuckoo bear considerable resemblance. It most frequently, however, makes choice of the nest of the titlark, which is common on those open heaths, the favourite resort of both. The egg, which is remarkable for its small size, is thus, together with its colour, admirably fitted for the deception which it is intended to practise. Though very similar in some instances to those of the skylark, there is a character about it peculiar to itself, by which it may be readily known. It is oval, and wider in proportion to its length; it is also usually marked with minute black dots. As I have stated above, there are light-coloured varieties, a good deal like the eggs of the pied wagtail.



*INSESSORES.*  
*SCANSORES.*

*CUCULIDÆ.*

## AMERICAN CUCKOO.

*COCYZUS AMERICANUS.*

PLATE LV. FIG. II.

THE AMERICAN CUCKOO having been admitted to a place in the list of our British Birds, I copy the following notes as to its nidification from Wilson's American Ornithology. "The singular, I will not say unnatural, conduct of the European Cuckoo, which never constructs a nest for itself, is so universally known, that the whole tribe of Cuckoos have, by some inconsiderate people, been stigmatized as destitute of parental care and affection.

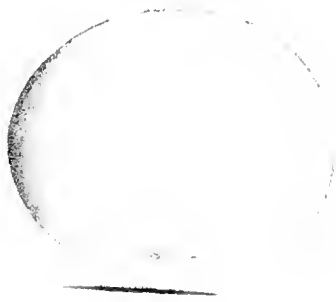
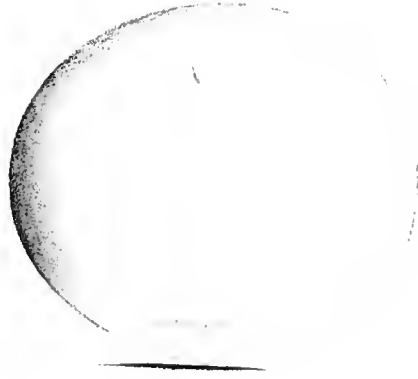
"Without attempting to account for this remarkable habit of the European species, I will only remark, that the bird now before us builds its own nest, hatches its own eggs, and rears its own young.

"Early in May they begin to pair, when obstinate battles take place amongst the males. About the tenth of the month, they begin building. The nest is usually fixed amongst the horizontal branches of an apple-tree; sometimes in a solitary thorn, crab, or cedar, in some retired part of the woods. It is constructed, with little art and scarcely any concavity, of small sticks and twigs, intermixed with green weeds and blossoms of the common maple. On this almost flat bed the eggs, usually three or four in number, are placed. While the female is sitting, the male is usually

not far distant, and gives the alarm by his notes when any person is approaching.

“The female sits so close that you may almost reach her with your hand, and then precipitates herself to the ground, feigning lameness to draw you from the spot, fluttering, trailing her wings, and tumbling over, in the manner of the partridge and many other species.” The egg figured is from the collection of Mr. Yarrell.





*INSESSORES.*  
*FISSIROSTRES.*

*MEROPIDÆ.*

## ROLLER.

*CORACIAS GARRULA.*

PLATE LVI. FIG. I.

THE ROLLER is one of those few occasional visitants of the British Islands, the brilliancy of whose plumage seems almost to tell us that it has but little right to a place in our catalogue.

The few instances of its occurrence with us have been chiefly in the north of Britain. It is met with in the forests of Germany, and is not unfrequent in other parts of Europe.

It is said to breed in the holes of decayed trees, and, in those districts where trees are scarce, to make its nest like the bee-eater and the kingfisher, in a bank of earth, which appears to be its more natural position, if we may judge from the appearance of the egg. It lays from four to seven eggs, which bear a very close resemblance to those of the bee-eater and the kingfisher, figured in the same plate, in the roundness of their contour and the glossy varnished appearance of the shell.

*INSESSORES.**FISSIROSTRES.**MEROPIDÆ.***BEE-EATER.****MEROPS APIASTER.**

PLATE LVI. FIG. II.

THE BEE-EATER is, like the last described species, an occasional, and but a rare visitor of this country. It breeds in various parts of the Continent, making its nest in the sandy banks of rivers, in manner much like the kingfisher, and lays from five to seven eggs. Montagu says that the Bee-eater abounds in the south of Russia, especially by the rivers Don and Wolga, in the banks of which they build their nests, perforating holes to the depth of half a foot, or more, for that purpose.

The egg from which the accompanying drawing is taken is in the collection of Mr. Yarrell, and was given him by Baron Laugier, who told him that it was taken out of a hole perforated four feet deep in the bank of a river.

*INSESSORES.*  
*FISSIROSTRES.*

*HALCYONIDÆ.*

## KINGFISHER.

*ALCEDO ISPIDA.*

PLATE LVI. FIG. III.

THIS splendid bird breeds sparingly in the sand-banks of many of our rivers; sometimes, as well, in the banks of a quarry, in a hole at the depth of two or three feet, in which it lays six or seven eggs; sometimes upon a collection of small fish-bones, but, I think, more commonly upon the bare sand.

From the many marvellous and exaggerated accounts given of the nest of this bird, Colonel Montagu was induced to pay particular attention to its habits, and gives the following very accurate and interesting particulars, perfectly agreeing with my own observations. "The hole chosen to breed in is always ascending; at the end is scooped a hollow, at the bottom of which is a quantity of small fish-bones, nearly half an inch thick, mixed in with the earth. This is, undoubtedly, the castings of the parent birds, and not the young, for we have found it even before they have eggs. The hole in which they breed is by no means fouled by the castings; but, before the young are able to fly, it becomes extremely foetid by the fæces of the brood, which is of a watery nature, and cannot be carried away by the parent birds, as is common with most of the smaller species: in defect of which, instinct has taught them to have the entrance to their habitation

ascending, by which means the filthy matter runs off, and may frequently be seen on the outside.”

Mr. Wolley tells me that the Kingfisher always enters its nest by making a direct shoot into its hole from a bough opposite to it, and, generally, on the other side of the water; it generally forms the hole for itself, and, should this be destroyed, will commence another within a few inches of it.





I. VII



*INSESSORES.*  
*FISSIROSTRES.*

*HIRUNDINIDÆ.*

## SWALLOW.

### HIRUNDO RUSTICA.

PLATE LVII. FIG. I.

**THERE** are but few of the pleasures of life, to be derived from the glorious works with which a kind Providence has on all sides surrounded us, that I could not more readily consent to part with, than the visit of our cheerful friends, the Swallows. They spend a part of their lifelong summer round about our dwellings; and, should we go beyond our doors, they are still, like some good spirit, hovering o'er us. If the day prove bright and beautiful, they may be seen, almost beyond the reach of vision, far away in the deep blue sky. Should the weather be dull and cloudy, and we stray forth into the green fields, we shall there find them near us; at one moment rapidly crossing our path, and in the next coming to meet us. If we wander down the banks of the river, and are fond of fishing, they will be with us the day long, coursing up and down the stream, and ever and anon "dipping their dappled wings," and, in the beautiful language of Wilson, "sweeping over our fields and rivers, and through our very streets, from morning till night, that the light of heaven itself, the sky, the trees, or any other common objects of nature, are not better known than the Swallows."

There are but few so indifferent or unobserving as not to greet them with pleasure on their return to us after a long and gloomy winter. The arrival of the first Swallow

is hailed by all : it brings with it a thousand recollections of “sunny skies and cloudless weather,” of days spent in the open fields, and of pic-nics in the deep green woods. On its coming, the trees have been wont to put forth their brightest foliage, the meadows have been strewn with flowers, the butterfly and the beetle have once more come forth from their winter’s sleep, and “the woods its welcome sing.”

I never see these dear birds gathering in the autumn, ere they take their departure for sunnier skys, or watch the last lingering few which the bright days of October have induced to tarry behind the rest, without regret that they are going to leave us, without feeling that I am about to lose my friends, the companions of all my solitary summer rambles, or without wishing a heartfelt blessing on their distant way.

Their lives are not only altogether harmless, but every hour that they live is spent in doing us good, and to an extent of which we can have but little conception ; and brutal and void of feeling, and ungrateful to that Great Being who made them for our good, must that man be who can in mere wantonness destroy and carelessly cast from him, to rot upon the ground, the beautiful form which, but for his thoughtlessness, had been soaring above his head full of life and enjoyment ! Would that some superstitious dread predicted evil to their destroyers ; or that some reverential feeling, or gratitude for their services, would protect them from evil, as the ibis of old, the stork of Holland, the purple martin of the United States, or even the hero of nursery tales, our own familiar robin red-breast !

It is now well known that the Swallows will return to the same place, and rear their young ones in the same nest, for many years in succession. A pair had for several years built their nest in the wash-house adjoining a cottage near York, finding their way in through a broken pane, passing in and out undaunted even on the washing-day. The rigour of a severe

winter had made it necessary to glaze the broken window in the wash-house ; and on the following summer, when the Swallows came as usual, and found their ingress prevented, they seated themselves upon the clothes-lines, and in repeated chattering expressed their disappointment. The pane was, however, speedily removed ; for the old lady to whom the place belongs is a great lover of their company, and likes well to hear their cheerful twittering.

The Swallow makes its nest in our chimneys, in barns, out-houses, and sheds, fixing it upon the cross-beams and against those that support the roof, occasionally also in the shaft of a deserted coal-pit. I have seen the nest against a door, which was daily opened many times, and yet the poor bird continued to sit till the nest was shaken down and destroyed ; and even built a second time, and shared the same fate. Mr. Yarrell gives a figure of a nest of this species, which was built upon the bough of a sycamore-tree, hanging low over a pond.

The nest of the Swallow is similar to that of the house martin, with the exception of its being open at the top ; it is made of the same materials—mud and clay, rendered more adhesive by mixing with it small pieces of straw ; it is lined with dry grass and feathers, and contains four or five eggs, always readily known from those of any other species of bird.

*INSESSORES.*  
*FISSIROSTRES.*

*HIRUNDINIDÆ.*

MARTIN,

HOUSE MARTIN, WINDOW SWALLOW.

*HIRUNDO URBICA.*

PLATE LVII. FIG. II.

How delightful is it, at the earliest dawn of daylight, when first awakening from sleep, to hear the soft, cheerful twitter of this gay bird, as it is forming its clay-built shed at the corner of our windows, or returning with food for its young ones; and how barbarous the custom, and I deeply regret to say that I have myself been guilty, of shooting these inoffensive useful birds! Ought we not rather to receive them as the people of the United States do the purple martins, which are everywhere considered by them as their friends and benefactors, and boxes prepared and hung against their houses purposely for the reception of their nests? “I never met with more than one man,” says Wilson, “who disliked the martins, and this was a penurious close-fisted German, who hated them because they eat his bees.”

The martins are, I fear, and I grieve to think it, yearly becoming less numerous in this country. In many of our villages, where they were very abundant, and their nests were clustered together under almost every “low-roofed cottage-ridge,” they are now never seen. In Germany, on the contrary, where they are unmolested, they so abound that their nests are crowded together in dozens under the lowliest roofs. Amongst the many natural beauties which surround the resi-

dence of Chatsworth, there was not one which pleased me so much as a large colony of martins that have established themselves at one end of the building. Here the good taste of the owner has allowed them to remain unmolested; and, many hundreds together, their evolutions add a most stirring cheerfulness to the scene. The Martin builds its nest, as every one is aware, under the eaves of our houses and at the corner of our windows; and, although apparently giving a preference to the walls of man's dwelling-place, against which it erects its own clay-built habitation, there are several places around our coast where numbers of Martins breed together, building their nests against the surface of the cliffs. In the north of Norway there is an island rock, known by the name of Torghattan, remarkable for a broad and lofty tunnel, which passes through it from sea to sea. Whilst standing midway amidst the heaps of rubbish which had fallen from its top, and admiring as well the vastness of this grand natural archway, as the singularly pleasing views through each of its mouths, seaward and inshore, we noticed some hundreds of Martins' nests, plastered against the irregularities of its roof, from which the owners were passing in and out in quick succession.

The nest of the Martin is composed of mud, rendered more adhesive by the mixture of small bits of straw; and, as observed by White, it is provident enough not to advance it too fast, but, by building only in the morning, gives it sufficient time to harden, lest, while soft, its own weight pull it down. Mr. Couch says, "I have known them neglect a fine morning and carry on the work through the afternoon, from no other apparent reason than the facility of procuring mortar at that period from a small distance, in a place which, in the morning, was covered with the tide." The lining of the nest is of fine grass and feathers. The eggs four or five in number.

*INSESSORES.*  
*FISSIROSTRES.*

*HIRUNDINIDÆ.*

## SAND MARTIN.

*HIRUNDO RIPARIA.*

PLATE LVII. FIG. III.

WE see less of the Sand Martin than of any of the swallow tribe. Whilst the other species spend the greater part of the time they are with us round about our dwellings, building their nests under the same roof ourselves inhabit, it retires to the more peaceful quiet of the country, and is seldom seen unless we follow it to its favourite haunts, the margin of a river. There, if the banks are elevated for a few feet above the influence of the water, and of a sufficiently porous soil, numbers of round holes may be seen, about the size of those perforated by the water-vole, which these birds have made with much toil and labour as a place of reception for their nests. Should you examine them, you may observe that, unless the soil is soft and sandy, many of them remain unfinished, the hardness of the substance having, most probably, driven the birds to seek a softer soil; and yet, at some of their breeding-places on the sea-coast, I have found the stratum so hard as to cause me some trouble sufficiently to enlarge the holes, not only to the detriment of my nails and fingers, but to the destruction of a stick-knife, without the assistance of which my wish to obtain the eggs must have remained ungratified. How, then, can we sufficiently admire the perseverance, and wonder at the power, which enables these little birds to overcome such difficulties?

Those holes which are completed, if no meddling hand has

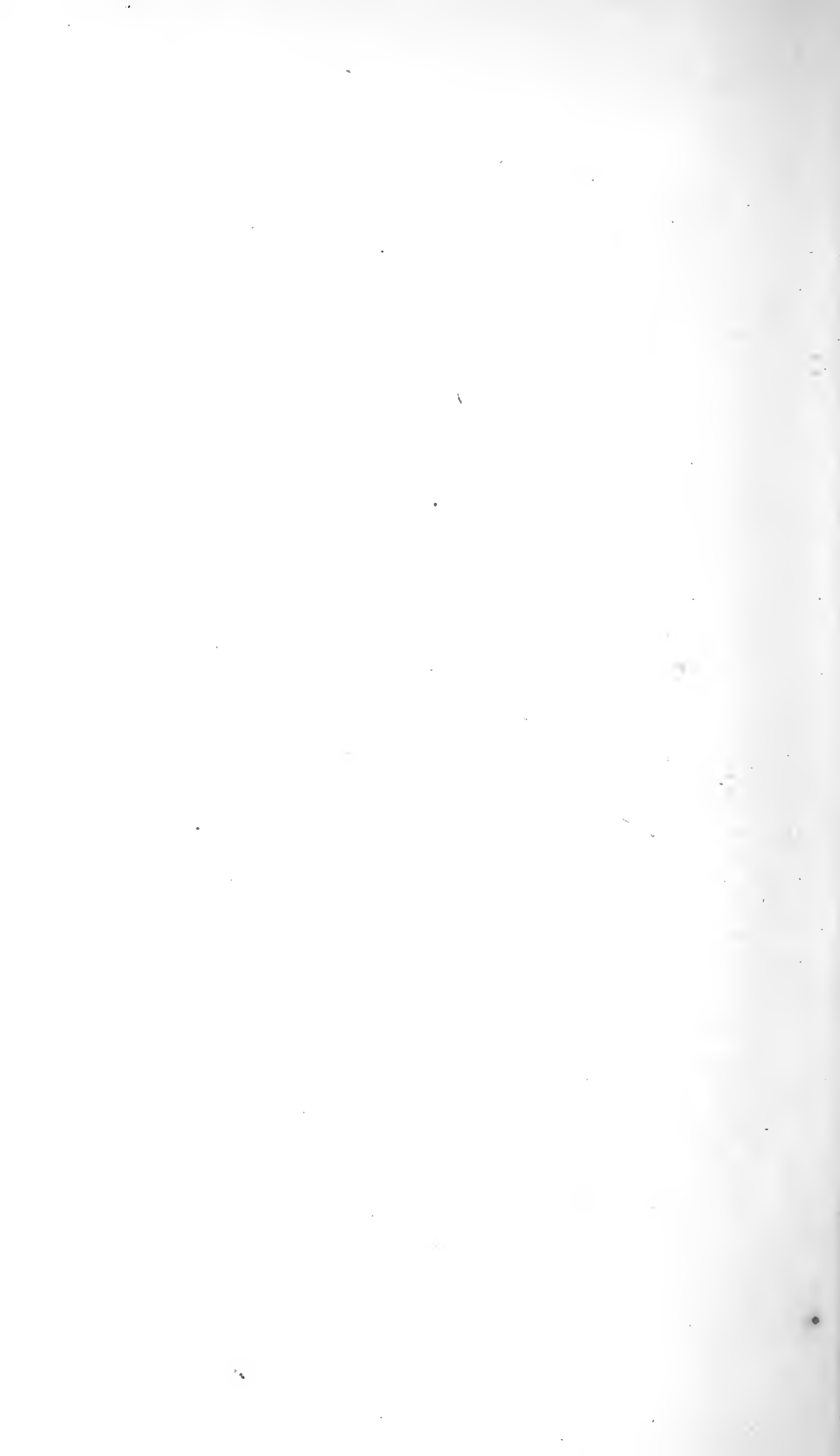


intruded to widen the orifice, are not sufficiently large to admit the arm, and from eight to eighteen inches deep. The doorway, which they seem most anxious to protect, is the narrowest part of the hole, which becomes wider towards the nest. In places where they have been yearly subject to disturbance, failing to touch the eggs at arm's length, I have only succeeded in doing so by the addition of a hooked stick, which reached them at the depth of from five to six feet. The Martins usually make their holes near the top of the bank, being evidently most in fear of enemies from below. I once saw a colony in great consternation, without being able for some time to discover the cause of alarm; when I observed a weasel, which made its *entrée* from above, passing from one hole to another, and no doubt making dire havoc either amongst the old birds or their young ones.

Besides the banks of rivers, which are their favourite haunts, there are many parts of the sea-coast to which the Sand Martins resort to breed. Their nests may be also occasionally met with in the banks of quarries and deserted sand-pits.

The outside of the nest is loose and flat, and of dry grass, profusely lined with the feathers of ducks and geese, more especially those from the breast of these birds, which in their natural curve give the roundness of the interior of the nest. Mr. Wolley informs me that at Burlington, in Yorkshire, the Sand Martins make their nests of sea-weed. The eggs, which are four or five, and rarely six in number, are, whilst the yolk is in them, beautifully tinged with pink.

Whilst watching the evolutions of some Norwegian soldiers, we were surprised to see that a colony of Sand Martins had scooped out their holes in a sandy bank which formed the boundary of the parade, and though close to the walls of the city of Drontheim, and not more than arm's reach from the ground, were enjoying undisturbed and quiet possession of their homes.





LXVIII



*INSESSORES.*  
*FISSIROSTRES.*

*HIRUNDINIDÆ.*

## SWIFT,

BLACK MARTIN, SCREECH, DEVILING.

*CYPSELUS MURARIUS.*

PLATE LVIII. FIG. I.

THE SWIFT usually brings forth its young ones in holes of old ruins, towers, and steeples; sometimes under the tiles of churches and houses, and in lime-kilns. White says, "In this village (Selbourne) some pairs frequent the lowest and meanest cottages;" and further adds, "we remember but one instance where they breed out of buildings, and that is in the sides of a deep chalk-pit." To this I may add, that I have seen them breeding in various places in the cliffs of the sea-coast.

Professor Nilson says, that in Sweden the Swift breeds in hollow trees. A correspondent of Loudon's Magazine also states that, observing a number of these birds at a distance of thirty miles from any place where it was likely that they should breed, upon making enquiry he discovered that they were occupying for that purpose the holes in trees perforated by the woodpecker.

For the most part, I believe the Swift deposits its eggs either upon the bare stone or mortar, or upon the remains of a sparrow's nest; sometimes it builds one for itself. This is, however, of very little substance and slight materials, being composed of a few straws, lined with feathers, and strongly cemented together with some glutinous substance. For several of these nests I am indebted to Mr. Salmon. The eggs of the Swift vary from two to four in number.

*INSESSORES.*  
*FISSIROSTRES.*

*HIRUNDINIDÆ.*

ALPINE SWIFT.

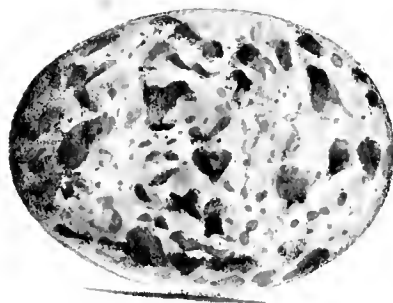
CYPSELUS ALPINUS.

PLATE LVIII. FIG. II.

No wonder that the Alpine Swift should sometimes visit our shores, since it is common throughout a great part of the southern continent of Europe, and gifted with a speed of wing which would set distance at defiance. Its flight is said to be even swifter than that of our well-known species. It is met with in some parts of France, Spain, Italy, and Switzerland. It breeds, like our own species, in high rocks, ruins, and in church steeples; and, Mr. Yarrell says, pays yearly visits for that purpose to the rocks in the canton of Geneva, the cathedral of Fribourg, and the steeple of Berne.

This Swift makes a nest similar to the commoner species, of pieces of straw firmly cemented together by some glutinous matter, and lined with feathers, in which it lays from three to five eggs.







*INSESSORES.*  
*FISSIROSTRES.*

*CAPRIMULGIDÆ.*

NIGHTJAR,

NIGHT HAWK, FERN OWL.

*CAPRIMULGUS EUROPEUS.*

PLATE LIX.

THE NIGHTJAR is most common in those open moorland tracts of country which immediately surround a more cultivated and woody district. In such situations it deposits its eggs, without any nest whatever, amongst heath, fern, and grass, or in a slight depression upon the bare ground, never far from the neighbourhood of woods or a woody district; its eggs may, also, frequently be found in open grassy spaces, and in drives occurring in the midst of large woods: they are two in number, and are amongst the most beautiful of our British birds' eggs; in shape they are peculiar, being almost of a perfect oval.

The American species of this genus, of which Wilson has given such interesting descriptions, all closely resemble ours in their mode of breeding.



London, December, 1845.

BOOKS ON NATURAL HISTORY, &c.

PUBLISHED BY

JOHN VAN VOORST, 1, PATERNOSTER ROW.

- 
- A GENERAL OUTLINE OF THE ANIMAL KINGDOM AND MANUAL OF COMPARATIVE ANATOMY. By T. RYMER JONES, F.Z.S., Professor of Comparative Anatomy in King's College, London; Examiner in Comparative Anatomy to the University of London.—In one thick vol. 8vo., containing nearly 350 Illustrations, 38s., or Royal 8vo., 3*l.* 16s., or Imperial 8vo., 5*l.* 14s.
- A HISTORY OF BRITISH QUADRUPEDS, INCLUDING THE CETACEA. By THOMAS BELL, F.R.S., F.L.S., V.P.Z.S., ETC. Professor of Zoology in King's College, London. Nearly 200 illustrations, 8vo., 28s. Royal 8vo., 2*l.* 16s., or Imperial 8vo., 4*l.* 4s.
- A HISTORY OF BRITISH BIRDS. By WILLIAM YARRELL, F.L.S., V.P.Z.S., ETC. This work contains a history and a portrait of each species of the Birds found in Britain. The three volumes contain 535 illustrations. Second Edition. 3 vols. demy 8vo. 4*l.* 14s. 6*d.*; royal 8vo. 9*l.*; or imperial 8vo. 13*l.* 10s. A Supplement to the first edition, demy 8vo. 2s. 6*d.*; royal 8vo. 5s.; imperial 8vo. 7s. 6*d.*
- A HISTORY OF BRITISH REPTILES. By THOMAS BELL, F.R.S., F.L.S., V.P.Z.S., ETC. Professor of Zoology in King's College, London. 8vo. with more than 40 illustrations, price 8s. 6*d.* Royal 8vo. 17s. or Imperial 8vo., 25s. 6*d.*
- A HISTORY OF BRITISH FISHES. By WILLIAM YARRELL, F.L.S., V.P.Z.S., ETC. Second Edition, in two vols. demy 8vo., illustrated by nearly 500 engravings, price 3*l.* A Supplement to the first edition, demy 8vo., 7s. 6*d.* Royal 8vo., 15s., or Imperial 8vo., 1*l.* 2s. 6*d.*
- A HISTORY OF BRITISH STARFISHES AND OTHER ANIMALS OF THE CLASS ECHINODERMATA. By EDWARD FORBES, F.L.S., V.P.W.S., Professor of Botany in King's College, London. 8vo., with more than 120 Illustrations, 15s., or Royal 8vo., 30s.
- A HISTORY OF BRITISH FOREST-TREES, INDIGENOUS AND INTRODUCED. By PRIDEAUX JOHN SELBY, F.L.S., M.W.S., ETC.—Nearly 200 Engravings. 8vo. 28s. Royal 8vo. 2*l.* 16s.
- A HISTORY OF BRITISH FERNS AND ALLIED PLANTS. By EDWARD NEWMAN, F.L.S., Z.S., ETC. With an Engraving of each Species. Second Edition, 8vo., 25s.
- 
- GEOLOGY, INTRODUCTORY, DESCRIPTIVE, AND PRACTICAL. By DAVID THOMAS ANSTED, M.A., F.R.S., Professor of Geology in King's College, London, and Fellow of Jesus College, Cambridge. 2 vols. 8vo., with numerous illustrative Engravings, 2*l.* 2s.
- A MANUAL OF GOTHIC MOULDINGS; a Practical Treatise on their Formations, Gradual Development, Combinations, and Varieties; with full directions for copying them, and for determining their date. Illustrated by nearly 500 examples. By F. A. PALEY, M.A., Honorary Secretary to the Cambridge Camden Society. 8vo., 9s.
- THE NATURAL HISTORY OF THE COUNTY OF STAFFORD, comprising its Geology, Zoology, Botany, and Meteorology; also its Antiquities, Topography, Manufactures, &c. By ROBERT GARNER, F.L.S. 8vo., with many Illustrations, 21s.
- THE INTRODUCTION TO DUTCH JURISPRUDENCE OF HUGO GROTIUS. Now first rendered into English. By CHARLES HERBERT, of the Middle Temple, Barrister-at-Law. Royal 8vo., 1*l.* 11s. 6*d.*
- ILLUSTRATIONS OF BAPTISMAL FONTS, comprising 124 Engravings, with descriptions; and with an Introduction by F. A. PALEY, M.A., Hon. Sec. of the Cambridge Camden Society. 8vo. 21s.

- THE NATURAL HISTORY OF ANIMALS. By T. RYMER JONES, F.R.S., F.Z.S., Professor of Comparative Anatomy in King's College, London. Vol. I. with 105 Illustrations. Post 8vo., 12s.
- ANATOMICAL MANIPULATION; or, Methods of pursuing Practical Investigations in Comparative Anatomy and Physiology: also an Introduction to the Use of the Microscope, &c., and an Appendix. By ALFRED TULK, M.R.C.S., M.E.S.; and ARTHUR HENFREY, F.L.S. M. Mic. S. Foolscep 8vo., with Diagrams. 9s.
- POEMS BY ROBERT BLOOMFIELD, THE FARMER'S BOY. With 13 illustrations, by T. SIDNEY COOPER, A.R.A., J. C. HORSLEY, J. F. TAYLER, and T. WEBSTER, A.R.A. Foolscep 8vo., cloth, 7s. 6d.; or square crown 8vo., cloth, 15s. Bound copies may be had.
- THE CHURCH RESTORERS: a Tale treating of Ancient and Modern Architecture and Church Decorations. By F. A. PALEY, M.A., Hon. Sec. of the Cambridge Camden Society. Foolscep 8vo., 4s. 6d.
- A CATALOGUE OF BRITISH VERTEBRATED ANIMALS, derived from BELL'S British Quadrupeds and Reptiles, and YARRELL'S British Birds and Fishes; so printed as to be applicable for labels. 8vo., price 2s. 6d.
- FIRST STEPS TO ANATOMY. By JAMES L. DRUMMOND, M.D., Professor of Anatomy and Physiology in the Royal Belfast Institution. 12mo. 5s.
- PERRANZABULOE: with an Account of the Past and Present Condition of the Oratory of St. Piran in the Sands. By the Rev. W. HASLAM, B.A., Curate of Perranzabuloe. Foolscep 8vo., with several Illustrations, 4s. 6d.
- A HISTORY OF THE FOSSIL INSECTS IN THE SECONDARY ROCKS OF ENGLAND. Accompanied by a Particular Account of the Strata in which they occur, and of the circumstances connected with their preservation. By the Rev. PETER BELLENGER BRODIE, M.A., F.G.S. With 11 Plates. 8vo., 9s.
- CONTRIBUTIONS TO THE FAUNA AND FLORA OF THE COUNTY OF CORK. The Zoological portion by DR. HARVEY and MR. HUMPHREY, the Botanical portion by DR. POWER. 8vo., 3s. 6d.
- DESCRIPTIVE AND ILLUSTRATIVE CATALOGUE OF THE PHYSIOLOGICAL SERIES OF COMPARATIVE ANATOMY, contained in the Museum of the Royal College of Surgeons in London. 5 vols. 4to, each 1l. 11s. 6d.
- CALCULI AND OTHER ANIMAL CONCRETIONS, 1840. 10s. plain, 1l. 11s. 6d. coloured.
- FOSSIL ORGANIC REMAINS OF MAMMALIA AND BIRDS. 21s.
- AIKIN'S CALENDAR OF NATURE; OR NATURAL HISTORY OF EACH MONTH IN THE YEAR. With Additions, by a Fellow of the Linnæan and Zoological Societies, and Eighteen Designs by CATTERMOLLE. Small 8vo., 2s. 6d. In ordering this volume "Cattermole's edition" should be particularly expressed.
- GOLDSMITH'S VICAR OF WAKEFIELD. With 32 illustrations by WILLIAM MULREADY, R.A. Sq. 8vo., 1 guinea, or 36s. morocco, elegant.
- AN ELEGY IN A COUNTRY CHURCH-YARD. By GRAY. Each stanza illustrated with an engraving on wood, from thirty-three original drawings expressly made for the volume, by the most eminent Artists. Post 8vo. 9s. A Polyglot Edition of this volume, with inter-paged translations in the Greek, Latin, German, Italian, and French languages. 12s.
- THE BARD. By GRAY. With illustrations from drawings by the HON. MRS. JOHN TALBOT.—Uniform with the Elegy of Gray, to which it forms an appropriate companion volume. 7s.
- A NOMENCLATURE OF BRITISH BIRDS. FOR LABELING COLLECTIONS OF BRITISH BIRDS AND THEIR EGGS. By HENRY DOUBLEDAY.—Fourth edition, 1s. 6d. sewed.
- A GEOGRAPHICAL AND COMPARATIVE LIST OF THE BIRDS OF EUROPE AND NORTH AMERICA. By CHARLES LUCIAN BONAPARTE, Prince of Canino.—8vo. 5s.
- A PAPER ON THE GROWTH OF THE SALMON IN FRESH WATER. By MR. YARRELL. With six illustrations of the fish of the natural size, exhibiting its structure and exact appearance at various stages during the first two years. 12s. sewed.

- AN ANGLER'S RAMBLES. By EDWARD JESSE, F.L.S., Author of "Gleanings in Natural History." Contents:—Thames Fishing.—Trolling in Staffordshire.—Perch Fishing-club.—Two Days' Fly-fishing on the Test.—Luckford Fishing-club.—Grayling Fishing.—A Visit to Oxford.—The Country Clergyman. Post 8vo., price 10s. 6d.
- A TREATISE ON THE MANAGEMENT OF FRESH-WATER FISH, WITH A VIEW TO MAKING THEM A SOURCE OF PROFIT TO LANDED PROPRIETORS. By GOTTLIEB BOCCIUS.—8vo. price 5s.
- HERALDRY OF FISH. By THOMAS MOULE.—8vo., price 21s; a few on large paper, (royal 8vo.,) for colouring, price 2l. 2s. Nearly six hundred families are noticed in this work, and besides the several descriptions of fish, fishing-nets, and boats, are included also mermaids, tritons, and shell-fish. Nearly seventy ancient seals are described, and upwards of twenty subjects in stained glass. The engravings, two hundred and five in number, are from stained glass, tombs, sculpture and carving, medals and coins, rolls of arms, and pedigrees.
- THE NATURAL HISTORY OF SELBORNE. By the late Rev GILBERT WHITE, M.A. A new edition, with notes by the REV. LEONARD JENYNS, M.A., F.L.S., ETC.; with 26 illustrations, foolscap 8vo., 7s. 6d.
- THE CANADIAN NATURALIST. By PHILIP HENRY GOSSE, Cor. Mem. of the Nat. Hist. Soc. of Montreal, and of the Lit. and Hist. Soc. of Quebec. With forty-four illustrations of the most remarkable Animal and Vegetable productions. Post 8vo., 12s.
- THE ORNITHOLOGIST'S GUIDE TO THE ISLANDS OF ORKNEY AND SHETLAND. By ROBERT DUNN.—Post 8vo., 5s.
- THE HONEY BEE; ITS NATURAL HISTORY, PHYSIOLOGY, AND MANAGEMENT. By EDWARD BEVAN, M.D. A new edition, with many illustrations, 12mo., 10s. 6d.
- THE NATURAL HISTORY OF THE SPERM WHALE, AND A SKETCH OF A SOUTH SEA WHALING VOYAGE. By THOMAS BEALE, late Surgeon to the "Kent," and "Sarah and Elizabeth," South Seamen. Post 8vo., 12s.
- A FAMILIAR INTRODUCTION TO THE HISTORY OF INSECTS By EDWARD NEWMAN, F.L.S., ETC.—With numerous Illustrations. One vol. 8vo., 12s.
- A CATALOGUE OF BRITISH FOSSILS. Comprising all the Genera and Species hitherto described; with references to their geological distribution, and to the localities in which they have been found. By JOHN MORRIS. 8vo., 10s.
- A MANUAL OF BRITISH BOTANY; containing the Flowering Plants and Ferns, arranged according to the natural orders. By C. C. BABINGTON, M.A., F.L.S., F.G.S., &c. 12mo., 9s.
- A MANUAL OF BRITISH ALGÆ. By W. II. HARVEY, M.D., M.R.I.A., ETC. Containing generic and specific descriptions of all the known British species of Sea-weed, and of *Confervæ*, both marine and fresh-water.—8vo., 9s.
- A CORNISH FAUNA; being a Compendium of the Natural History of the County. 8vo. Parts I. and II., by JONATHAN COUCH, F.L.S., ETC., 2s. each. Part III., by RICHARD Q. COUCH, price 7s.
- A FLORA OF SHROPSHIRE. By the Rev. W. A. LEIGHTON, M.A., F.R.S.E., ETC.—Comprising the flowering Plants indigenous to the County, arranged on the Linnæan system. 8vo., 24s.
- ON THE GROWTH OF PLANTS IN CLOSELY-GLAZED CASES. By N. B. WARD, F.L.S. 8vo., 5s.
- A FLORA OF THE NEIGHBOURHOOD OF REIGATE, SURREY; containing the Flowering Plants and Ferns. By GEORGE LUXFORD, A.L.S., F.R.S.E.—12mo., with a Map of the District, 5s.
- DESCRIPTION OF THE SKELETON OF AN EXTINCT GIGANTIC SLOTH. With Observations on the Osteology, natural Affinities, and probable Habits of the Megatherioid Quadrupeds in general. By RICHARD OWEN, F.R.S., ETC. 4to., 1l. 12s. 6d.
- A HISTORY OF THE FOSSIL FRUITS AND SEEDS OF THE LONDON CLAY. By JAMES SCOTT BOWERBANK, F.G.S., ETC. The first Part, in Royal 8vo., price 16s., contains the description, and 423 figures engraved on 17 copper plates by Mr. JAMES DE CARL SOWERBY.

- TRANSACTIONS OF THE MICROSCOPICAL SOCIETY OF LONDON, Parts I. and II., Royal 8vo., 7s. 6d. each.
- INDEX GEOLOGICUS. A Diagram 3ft. 6in. by 2ft. 9in.; showing the position and age of every deposit, and their "localities;" the classification of their Fossils, Metals, and Minerals; the statistics of Soils and indigenous Flora of each surface in Britain, &c. By G. BARTLETT.—On roller or in case, 21s.
- ILLUSTRATIONS OF ARTS AND MANUFACTURES; being a Series of Papers on Pottery, Limestone, and Calcareous Cements, Gypsum and its uses, Furs and the Fur Trade, Felting and Hat-making, Bone and its uses, Tortoise-shell and Whalebone, Antiquarian and Metallurgical History of Iron, Engraving and Etching, and on Paper. Read before the Society for the Encouragement of Arts, Manufactures, &c. By ARTHUR AIKIN, F.L.S., F.G.S., ETC. late Secretary to that Institution. In foolscap 8vo., Illustrated. Price 8s. cloth.
- A WINTER IN THE AZORES, AND A SUMMER AT THE BATHS OF THE FURNAS. By JOSEPH BULLAR, M.D., and HENRY BULLAR, of Lincoln's Inn. Two vols. 8vo., with Illustrations, 28s.
- DOCUMENTS CONNECTED WITH THE HISTORY OF LUDLOW AND THE LORDS MARCHERS. Edited by the Hon. ROBERT H. CLIVE.—Imperial 8vo., 31s. 6d.
- ELEMENTS OF PRACTICAL KNOWLEDGE; OR THE YOUNG ENQUIRER ANSWERED. Explaining, in question and answer, and in familiar language, what most things daily used, seen, or talked of, are; what they are made of, where found, and to what uses applied. Second Edition, 18mo., with Illustrations, 3s.
- A BRIEF HISTORY OF CHRIST'S HOSPITAL. By J. I. WILSON. Seventh Edition, with Six Illustrations, and a List of the Governors. Small 8vo., 4s.
- VAN VOORST'S NATURALIST'S POCKET ALMANACK, FOR THE YEARS, 1843, 1844, 1845, and 1846. 1s. each.

*Works now in course of Publication.*

- PROFESSOR BELL'S HISTORY OF BRITISH CRUSTACEA. Four Parts published, 2s. 6d. each, or large paper, 5s.
- DECORATED WINDOWS, a Series of Illustrations of the Rise and Progress of Decorated Window Tracery in England. By EDMUND SHARPE, M.A., Architect. 8vo., price 2s. 6d. each part. Seven published: nine will complete.
- PROFESSOR OWEN'S HISTORY OF BRITISH FOSSIL MAMMALIA. Six published, at 2s. 6d. each: will be completed in twelve parts.
- INSTRUMENTA ECCLESIASTICA. Edited by the Cambridge Camden Society. 4to. Ten parts published, 2s. 6d. each: will be completed in twelve parts.
- COMPILED ILLUSTRATIONS OF THE EGGS OF BRITISH BIRDS, accompanied with Descriptions of the Eggs, Nests, &c. By WILLIAM C. HEWITSON.—Will be completed in thirty-three monthly half-crown parts.
- THE PHYTOLOGIST, a Botanical Journal. 1s. monthly.
- THE ZOOLOGIST, a Journal of Natural History. 1s. monthly.

*In Preparation.*

- LETTERS BY RUSTICUS OF GODLIMAN. 8vo.
- A FLORA OF GIBRALTAR; with Topographical Descriptions. By E. F. KE-LAART, M.D., Army Medical Staff. 8vo.
- JOHNSTON'S HISTORY OF BRITISH ZOOPHYTES. A New Edition, in monthly parts at 2s. 6d. each, or large paper, 5s.
- TRAVELS IN LYCIA AND THE NEIGHBOURING PROVINCES OF ASIA MINOR. By LIEUT. SPRATT, R.N., and PROFESSOR EDWARD FORBES, in company with the late Rev. E. T. DANIELL. Two vols., 8vo., with a Map of the District from Actual Survey, and other Illustrations.
- REV. LEONARD JENYNS' OBSERVATIONS AND NOTES ON VARIOUS BRANCHES OF NATURAL HISTORY.
- PROFESSOR RYMER JONES'S NATURAL HISTORY OF ANIMALS. Vol. II.
- PROFESSOR EDWARD FORBES'S RAMBLES OF A NATURALIST.

301  
1990





