Scottish Birds

INDEX

TITLE PAGES AND
LIST OF ILLUSTRATIONS

Volume 3
1964 - 1965

SCOTTISH BIRDS - BINDING

Arrangements have been made for binding Volume 3 of "Sottish Birds." The charge is 19/3d for binding in red buckram, or 23/9d for binding in red quarter leather, both prices including return postage. The parts to be bound (Nos. 1 to 8 and Index) should be sent direct to the binders together with your remittance to cover the cost of binding. Back numbers may be purchased from the Scottish Centre for Ornithology and Bird Protection, 21 Regent Terrace, Edinburgh 7, at 5/- each, but not from the binders. Please be sure to complete the binding form on the back cover (with details of your name and address, remittance, and style of binding required) before sending the parts to:

G. BLUNT & SONS LTD.

North Acton Road

Harlesden

LONDON N.W.10

Scottish Birds

THE JOURNAL OF THE SCOTTISH ORNITHOLOGISTS' CLUB



Edited by A. T. MACMILLAN

with the assistance of

D. G. ANDREW P. J. B. SLATER T. C. SMOUT

Business Editor, T. C. SMOUT

VOLUME 3

1964 - 1965



Index

The index is in three parts. The first is a general index to the various sections of the journal; the second is a list of all papers and short articles; and the third is an index of all significant mentions of each species. Only the first page of each reference is given, except in the index of papers and short articles.

English names are used throughout. A complete list of scientific names is not given in this volume, but those not included at the end of volume 2 are noted. A new British List is now in preparation, and will involve various changes in nomenclature. We hope this will not be too long delayed, but in the meantime we continue to use the 1952 B.O.U. list, with amendments, as detailed in volume 2, page 515.

The index to species is selective, not comprehensive. Titles of papers and short notes dealing with particular species are included in abbreviated form, and various sub-headings are added; otherwise only page numbers are given. All references in short and current notes, reviews of changes in status, local status lists, and lists of unusual occurrences, have been indexed. As most contributions are concerned with migration and distribution of birds in Scotland it may generally be assumed that where no further details of the references listed for a species are given they are mostly of this nature. Passing and comparative references have usually been omitted, and also references within the body of papers, reviews, obituaries and other contributions, unless these are status reports or considered of special interest apart from the context in which they are mentioned. In particular it should be emphasised that detailed and valuable information on migration and numbers of common birds, in papers such as the Isle of May reports, finds no place in the index to species.

Regular Features

Corrections 324, 381 Correspondence 208, 435

Current Notes 35, 84, 141, 197, 260, 318, 366, 421

Editorial 1, 57, 97, 157, 217, 281, 329, 385

Obituary

Miss Helen C. Todd 43 Ian M. Thomson 92, plates 7, 19 Charles J. Inkster 150 Bill Crawford 324, plate 27

Official Section 51, 95, 154, 209, 276, 326, 381, 382, 437

Requests for Information 50, 153, 208, 275, 280, 326, 381, 389

Reviews-excluding 'Special Review'

D. A. Bannerman & G. E. Lodge: The Birds of the British Isles Vol. XII 43
 D. A. Bannerman: Birds of the Atlantic Islands Vol. 1 45

G. L. Atkinson-Willes: Wildfowl in Great Britain 46 W. S. Medlicott: The Birds of South Roxburghshire 47 R. Spencer: Instructions to Young Ornithologists III.

Bird Migration 48

E. A. R. Ennion: Birdwatching 49

E. A. Armstrong: A Study of Bird Song 93

I. C. Welty: The Life of Birds 151

C. J. O. Harrison: Instructions to Young Ornithologists V. Birds' Nests and Eggs 151

R. Brodtkorb: Flying Free 153

K. Williamson: Identification for Ringers 3. The Genus Sylvia 206

A. L. Thomson: A New Dictionary of Birds 269
J. Fisher & R. T. Peterson: The World of Birds 272
B. Campbell & D. Watson: The Oxford Book of Birds 272
J. J. Swift: Proceedings of the First European Meeting on Wildfowl Conservation 273

W. E. Lanyon: Biology of Birds 274 P. E. Brown & P. H. T. Hartley: Birds and Green Places 274 D. Stephen: Scottish Wild Life 274

P. A. Clancey: The Birds of Natal and Zululand 325 A. McNeillie: But Hibou was Special 325

B.T.O. Guide to Ageing and Sexing 326

M. L. Grossman & J. Hamlet: Birds of Prey of the World 378.

P. Brown: Birds of Prey 378

H. Boase: Birds of North Fife 379

D. H. Mills: The Distribution and Food of the Cormorant in Scottish Inland Waters 380

J. M. Harrison: Bird Taxidermy 380

F. F. Darling & J. M. Boyd: The Highlands and Islands 431

K. Williamson: Fair Isle and its Birds 433

G. A. Richards: A Check-List of the Birds of Ayrshire 434 Binoculars & Telescopes for Field Work (B.T.O. Guide) 434

B. & M. Grzimek: Serengeti Shall Not Die 434 Colour slides 152, 207

Also received 153, 207

Short Notes 26, 82, 138, 195, 246, 310, 360, 406

Without Comment 83

Papers and Short Articles

Current research on Red Grouse in Scotland (D. Jenkins, A. Watson & G. R. Miller) 3-13

Isle of May Bird Observatory and Field Station Report for 1963 (Nancy J. Gordon) 14-21; 1964 283-287

Rock Doves in Scotland (R. Hewson) 22-25, plates 1-2

The Nature Conservancy and its work; with mainly ornithological examples (W. J. Eggeling) 59-72

Observations on small petrels at St Kilda, 1961-62 (W. E. Waters) 73-81, plates 4-6

Some aspects of breeding biology and behaviour of the North Atlantic Gannet on the Bass Rock (J. B. Nelson) 99-137, plates 8-15

Scottish Ornithologists. 1. Sir Robert Sibbald 1641-1722 (I. D. Pennie) 159-166, plates 16-18

Review of ornithological changes in Scotland in 1963 (D. G. Andrew) 167-177; 1964 390-396

Notes on the rookeries in the City of Edinburgh in 1957 and 1964 (C. N. L. Cowper) 177-179

The Waxwing invasion of October and November 1963 (A. T. Macmillan) 180-194

Research at Culterty Field Station (G. M. Dunnet et al.) 219-235, plates 20 - 23

Notes on the Corn Bunting in Sutherland (D. Macdonald) 235-246

- Recent changes in Scottish barley acreages and the possible effects on wild geese (Janet Kear) 288-292
- The Collared Dove in Scotland (A. T. Macmillan) 292-301
- Movements of the Mute Swan in east Scotland (H. Boase) 301-310
- Research on Scottish Ptarmigan (A. Watson) 331-349, plates 28-33
- The numbers and behaviour of geese in the Lothians and Berwickshire (W. Brotherston: Special Review by D. G. Andrew) 350-360, 436
- Notes on the birds of Berneray, Mingulay and Pabbay (A. W. Diamond, R. J. Douthwaite & W. J. E. Indge) 397-404
- Further notes from Island Roan, Sutherland (the late I. R. Downhill) 404-405

Index to Species

- AUK, LITTLE, winter 39, 89, 145, 321
- AVOCET, Shetland 144; Orkney 371
- BALDPATE, see Wigeon, American BITTERN, winter 47, 85, 318; May 367
- BLACKBIRD, 19, 41, 286, 405; ringing recoveries 20, 286; leucistic 377, 431
- BLACKCAP, 43, 148, 375, 428; ringing recovery 20; November and winter 41, 91, 148, 150, 266, 285, 32
- BLUETHROAT, autumn 16, 429 BRAMBLING, 267, 429
- BULLFINCH, 18 (see 396), 48; Northern race 18
- BUNTING, CORN, notes from Sutherland 235
- BUNTING, INDIGO, escape 391
- BUNTING LAZULI, escape 391
- BUNTING, LAPLAND, autumn 17, 42, 174, 396, 405, 420
- BUNTING ORTOLAN, autumn 16. 174, 429
- BUNTING, RED-HEADED, probable escapes 206, 377, 428
- BUNTING, REED, 377, 405
- BUNTING, SNOW, late spring 149, 206
- BUNTING, YELLOW-BREAST-ED, autumn 18, 317 (corrected 381), 396
- BUSTARD, LITTLE, Wigtown 253 BUZZARD, south Scotland 142, 171, 199, 263, 320; north 320, 369, 404; breeding Clackmannan 410

- BUZZARD, HONEY, Fair Isle 171; Orkney 423
- BUZZARD, ROUGH-LEGGED, 87, 171, 321, 423
- CAPERCAILLIE, Stirling 87
- CHAFFINCH, migrants 429
- CHIFFCHAFF, 148, 323, 376, 405; late October and winter 41, 150, 266, 285, 322.
- CHOUGH, Outer Hebrides 173; Caithness 374; Orkney 377.
- CORMORANT, 35, 47, 85, 330, 380, 392
- CORNCRAKE, 18, 48, 370, 424
- COURSER, CREAM-COLOURED, East Lothian 385
- CRAKE, SPOTTED, Midlothian 31; S. Uist 200; Inverness 264; Dunbarton 416; Kirkcudbright 416
- CRANE, 1962 records 171
- CROW, CARRION, 330
- CROW, HOODED, 330, 401, 405; south Scotland 18, 90, 146, 265, 322; big flock 322; increase S.E. Sutherland 366
- CROSSBILL (including Scottish birds), 59, 177, 330; mainly immigrants 18, 42, 43, 91, 149, 177, 205, 405
- CROSSBILL, PARROT, Shetland, Fair Isle and Outer Hebrides 168, 174, 196
- CUCKOO, spring 145, 372; autumn 428, 429
- CURLEW, 227, 370, 403, 404
- CURLEW, STONE, North Fife 417
- DIPPER, 48; new race at Fair Isle

- 173, 395; 'black-bellied' in Orkney 374
- DIVER, BLACK-THROATED, 330, 391; winter inland 318; winter W. Ross 367
- DIVER, GREAT NORTHERN, plate 17; big flocks 84, 367
- DIVER, RED-THROATED, 84, 141, 168, 318, 421, plate 7; big flocks 260, 367 (June), 421
- DIVER, WHITE-BILLED, S.E. Sutherland 168
- DOTTEREL, Fair Isle 424
- DOVE, COLLARED, 18, 39, 43, 48, 58, 89, 153, 172, 176, 204, 285, 330, 394, 396, 428; in Scotland 292
- DOVE, ROCK, 275, 400, 405; in Scotland 22, plates 1-2
- DOVE, TURTLE, spring and summer 145, 172, 284, 372, 403; autumn 203, 420, 427
- DOWITCHER sp., Shetland and Dunbarton 254, 393
- DUCK, LONG-TAILED, 85, 389, 422; inland 35, 261, 319, 422; summer 142, 422; big flocks 86, 142, 261
- DUCK, RING-NECKED, first Scottish 167, 170
- DUCK, RUDDY, escape 422
- DUCK, TUFTED, 170, 368
- DUNLIN, 227, 405; inland winter 321
- DUNNOCK, see SPARROW HEDGE
- EAGLE, GOLDEN, 2, 59, 68, 159, 275, 330, 399; attacking human intruder 26; eaglet weights 26; over 40 years old 268 (corrected 282)
- EAGLE, WHITE-TAILED, 330; attempted reintroduction 153, 411
- EGRET, CATTLE, Dumfries 246, 391
- EIDER, 330, 389, 399, 404, 423; Ythan research 221, plate 21; abnormal nesting behaviour 252, 431; big flocks 86, 142, 198
- EIDER, KING, Shetland 311
- FALCON, GYR, Isle of May rejected 393; St Kilda 412
- FALCON, RED-FOOTED, Orkney 171; Shetland 312, 393

- FIELDFARE, 40, 146, 266, 374; June and July 204, 286, 374, 428; ringing recovery 20
- FLAMINGO, south Scotland, 261, 407
- FLYCATCHER, COLLARED, Orkney 174
- FLYCATCHER, PIED, spring and summer 48, 148, 376; autumn 18, 205, 405, 429
- FLYCATCHER, RED-BREAST-ED, 25th June 376; autumn 16, 267, 285, 420, 429
- FLYCATCHER, SPOTTED, 148, 376, 429; 16th November 41
- FULMAR, 141, 169, 286, 398, 401, 404; Eynhallow research 233, plate 23; wreck 430; 'blue' 141, 198, 367
- GADWALL, 85, 142, 169, 261, 319, 367, 422; parasitic association with Coot 195
- GALLINULE, INDIAN, escapes 321
- GANNET, 2, 35, 85, 198, 330, 389, 404, plate 16; inland 318; breeding biology and behaviour on Bass 97, plates 8-15
- GARGANEY, spring 141, 206, 367; summer 42, 142; autumn 198
- GODWIT, BAR-TAILED, 18, 227, 370, 405
- GODWIT, BLACK-TAILED, breeding southern Scotland 256, 424; autumn, winter and spring 37, 88, 143, 200, 264, 321, 370, 424; Icelandic race 171
- GOLDCREST, winter Orkney 322; at bird table 323; migrants 405, 429
- GOLDENEYF, unusual numbers 85, 319; summer 368, 422; abnormally plumaged 409
- GOLDFINCH, 42, 174, 205, 267
- GOOSANDER, 330, 389; breeding 175; winter 319, 368
- GOOSE, BAR-HEADED, escapes 320
- GOOSE, BARNACLE, winter 37, 86, 158, 263, 285, 320, 360, 368, 404; summer 42, 170, 199, 368, 423
- GOOSE, BEAN, 86, 142, 170, 263, 320
- GOOSE, BRENT, 142, 170, 263; May

- 142; Dark-breasted 36, 170; Pale-breasted 37, 86, 263, 393
- GOOSE, CANADA, 87, 142, 170, 175, 369, 393, 423; Beauly Firth moulting flock 158, 199, 393, 423
- GOOSE, GREY LAG, 36, 47, 170, 262, 368, 389, 392, 404,; Eastern race 168; numbers and behaviour in Lothians and Berwick 158, 350, letter 436; effect of changes in barley acreage 288; melanistic 92
- GOOSE, PINK-FOOTED, 36, 47, 86. 142, 262, 368, 392; numbers and behaviour in Lothians and Berwick 158, 350, letter 436; effect of changes in barley acreage 288
- GOOSE, ROSS'S and GOOSE, SNOW, in Scotland 138. 262, 320, 368, 392, plates (Ross's) 25-26
- GOOSE, WHITE-FRONTED, 36, 170, 262, 320, 368; Greenland race 36, 86, 170, 320, 368, 392; European race 86
- GOSHAWK, Argyll 27, 393; Roxburgh 48; Fair Isle, Dunbarton and Ayr 171; Moray 253
- GREBE, BLACK-NECKED, 85, 168, 198, 267, 318, 367, 377, 422; breeding 175
- GREBE, GREAT CRESTED, 84, 141, 206, 280, 367; big flock 84; late brood 198; inland winter 261
- GREBE, LITTLE, autumn flock 198 GREBE, RED-NECKED, Firth of Forth 84, 260, 421; west coast 318; inland 84, 198, 421
- GREBE, SLAVONIAN, winter 85, 260; inland winter 85, 260, 367, 391; June 367, 422
- GREENSHANK, 144, 201, 371, 379, 426; winter 88, 150, 321
- GROSBEAK, SCARLET, Orkney 34; rejected records 174
- GROUSE, BLACK, 48, 330
- GROUSE, RED, 59, 218, 330; current Scottish research 3
- GUILLEMOT, 323, 399, 401-3, 405; ringing recovery 286
- GUILLEMOT, BLACK, 399, 401, 403, 405; south Scotland 89, 145, 203, 265

- GULL, BLACK-HEADED, 330, 405; unusual plumage 92, 323
- GULL, COMMON, 176, 330, 402, 405
- GULL, GLAUCOUS, winter 38, 88, 144, 203, 265, 321; June 144, 371; July 427; inland 38, 144
- GULL, GREAT BLACK-BACKED, 19, 176, 264, 286, 330, 394, 402, 405, plate 35; ringing recovery 20
- GULL, HERRING, 19, 159, 286, 371, 402, 405; abnormal nesting behaviour 252; albino 371
- GULL, ICELAND, winter on sea 38, 88, 265, 321, 394; June 371; inland 38, 89, 265, 371 (see also GULL, HERRING, albino)
- GULL, LESSER BLACK-BACK-ED, 19, 48, 286, 371, 394, 402, 405, 430, plate 36; late autumn and winter 38, 88, 265, 321; ringing recoveries 20, 286; eggs in Eider's nest 431; Scandinavian race 38, 144, 172, 265, 394, 427
- GULL, LITTLE, spring 89, 144, 372: summer 144, 203: autumn 18, 39, 203, 265, 268, 285, 323, 394, 427; winter 39, 89, 265, 372
- HARRIER sp., see HARRIER, HEN
- HARRIER, HEN, plate 19; spring 171, 369; breeding 175, 369; autumn and winter 18, 199, 264, 404
- HARRIER, MARSH, Aberdeen 91; Roxburgh 171, 423; Argyll 268
- HARRIER, MONTAGU'S, Aberdeen 171; Shetland 364; Augus breeding rejected 175
- HARRIER, PALLID, Shetland 364 HAWFINCH, 91, 149, 205, 323, 377, 430
- HERON, 47, 141, 403, 404; big clutch 377
- HERON, NIGHT, Orkney 169
- HOBBY, Shetland 200, 369; Outer Hebrides 369
- HOOPOE, spring 373, 430; autumn 204, 323, 428
- IBIS, GLOSSY, Sutherland 169; reject Angus 169
- JACKDAW, 177; roosting flight 90, 265; Scandinavian race claimed

40, 90, letter 208, rejected 395 JAY, 48, 266, 322

KESTREL, 37, 48, 404; food 323; nesting associates 43

KINGFISHER, south Scotland 48, 265, 323; Sutherland 173

KITTIWAKE, 19, 89, 144, 176, 203, 268, 372, 401, 402, 427; inland 89, 394; nesting behaviour in November 268

KNOT, 227, 405; unusual numbers 37, 88, 264, 321; inland 88, 201

LAPWING, 227, 399, 400, 404

MAGPIE, 40, 48, 374

MALLARD, unusual numbers 318; early and late broods 141, 268; double-brooded below Kestrels nest 43; killing sparrow 430

MARTIN, HOUSE, 146, 373, 403, 405; late nest 40; November 40; quick colonisation of new eaves 206, 268

MARTIN, SAND, 43, 48, 146, 373 MERGANSER, RED-BREASTED, 47, 199, 261, 389, 392; flocks 86, 142 (June), 199, 261

MERLIN, 48, 369, 424; chased by Jackdaws 264

MOORHEN, early chick 88; research 230

NIGHTJAR, 48; spring and summer 15, 204, 373; autumn 40, 204

NUTHATCH, Perth 83, 395 ORIOLE, GOLDEN, early summer

1964 and 1965 in north and west 204, 374, 430

OSPREY, 42, 142, 171, 199, 285, 369, 423; breeding Speyside 3, 57, 68, 159, 331, 385, 389, 423

OUZEL, RING, 18, 48, 147, 374; winter 322

OWL, BARN, 40, 321

OWL, LITTLE, Dumfries 145, 314 (including correction)

OWL, LONG-EARED, autumn and winter (including flocks) 18, 19, 40, 90, 420

OWL, SCOPS, Orkney 417

OWL, SHORT-EARED, unusual autumn and winter numbers 40, 90

OWL, SNOWY, Aberdeen, Banff, Shetland and Orkney 31; Midlothian 196, 395; Shetland 258; Angus 365

OWL, TAWNY, with cataract 92 OYSTERCATCHER, 19, 48, 227, 400, 404; big clutch 377

PARTRIDGE, RED-LEGGED, Perth introduction 369

PELICAN sp., escape 177, 390

PEREGRINE, 68, 264, 389, 399, 404, 424

PETREL, LEACH'S, 92, 158; St Kilda observations 73, plates 4-6

PETREL, STORM, 158, 401, 404, 422; St Kilda observations 73, plate 5

PHALAROPE, RED-NECKED, autumn in south Scotland 91, 393, 426, 430; brooding chick on hand 431

PHALAROPE, WILSON'S, Dunbarton 172; Fife 82, 394

PHEASANT, Lewis 143

PINTAIL, winter 85, 170, 261, 319, 367; breeding Kirkcudbright 175, 195, 422; unproven breeding Perth 175

PIPIT, MEADOW, 19, 400, 405; long-lived 19

PIPIT, ROCK, 400, 405

PIPIT, TAWNY, Isle of May 174, 286

PIPIT, TREE, 18, 149, 205, 375

PLOVER, GOLDEN, 18, 48, 227, 403, 404

PLOVER, GREY, 18, 171, 200, 227; inland 264

PLOVER, RINGED, 227, 400, 404 POCHARD, breeding Tentsmuir 368

POCHARD, RED-CRESTED, Edinburgh 35; Perth 422

PTARMIGAN, 218, 330, 389; Scottish research 331, plates 28-33

PUFFIN, 19, 286, 399, 401, 402, 405; numbers dead 89

QUAIL, 37, 143, 200, 285, 370, 393, 424, 430

RAIL, WATER, spring 18; autumn and winter 87, 264, 285; breeding 268

RAVEN, 48, 399, 405; big flocks 428 RAZORBILL, 399, 401-3, 405, 427; Northern race 394

REDPOLL, spring 286; autumn flocks 267; ringing recovery

- 287; Mealy 14, 285
- REDPOLL, ARCTIC, E. Inverness 174
- REDSHANK, 227, 405; Icelandic 172
- REDSHANK, SPOTTED, June 371; autumn 18, 37, 43, 201, 264, 268, 285, 425; winter 37, 88, 172, 264 (corrected 324), 321
- REDSTART, 147, 204, 286, 375, 420, 429; ringing recoveries 20, 287
- REDSTART, BLACK, spring 14, 147, 283, 286, 375; autumn 17, 429, 430; winter 90, 322
- REDWING, 41, 266; summer 204, 428; breeding Sutherland 315; Icelandic 173
- ROBIN, 18, 405, 429; October influx to coastal territories 269
- ROOK, roosting flight 90, 265; marking scheme 381; Edinburgh rookeries 177; Ythan population study 229
- RUFF, spring 370, 426; summer 426; autumn 16, 38, 172, 202, 426; winter 38, 88, 321, 324
- SANDERLING, inland 202
- SANDPIPER, COMMON, 143, 370 SANDPIPER, CURLEW, spring
- 144, 371; autumn 18, 38, 172, 202, 264, 426
- SANDPIPER. GREEN, spring 370; autumn 15, 16, 172, 201, 264, 425; winter 88, 264, 321
- SANDPIPER. PECTORAL, Lanark 172; Foula 177, 393
- SANDPIPER, WOOD, spring 143, 201, 370; autumn 18, 172, 201, 268, 425; breeding Sutherland 175, 196, 425
- SCAUP, 367, 404; summer 198, 368, 422; inland 35, 85, 170, 198, 261, 368, 422
- SCOTER, COMMON, 404; June flock 142; breeding 368; inland 86, 142, 368
- SCOTER, SURF, Orkney 170; Kirkcudbright 195, 392; Moray Firth 252; Outer Hebrides and Solway 362
- SCOTER, VELVET, 198, 319; Scottish breeding unproven 168
- SHAG, 198, 286, 398, 401; inland 35, 261

- SHEARWATER, CORY'S, Outer Hebrides 169
- SHEARWATER, GREAT, N. Sutherland 169; Shetland in April 406
- SHEARWATER, MANX, 35, 141, 169, 268, 401, 404, 422; summer and breeding Outer Hebrides 73, 175, 198, plate 5, letter 435; in Peregrine's eyrie in Cairngorms 392
- SHEARWATER, SOOTY, June 367; July 42; autumn 198, 285, 404, 406, 422
- SHELDUCK, 19, 158, 170, 175, 330; inland 36, 86, 142; research at Culterty 225, plate 22
- SHOVELER, Lewis 422
- SHRIKE, GREAT GREY, winter 17, 42, 91, 149, 174, 267, 322, 376
- SHRIKE, LESSER GREY, Outer Hebrides 259, 396; Orkney 420
- SHRIKE, RED-BACKED, spring 205, 284, 428; autumn 16
- SISKIN, 18, 205, 267, 429; ringing recovery 20
- SKUA, ARCTIC, breeding 144; autumn (to mid November) 38, 202, 264, 285 (29 birds), 405; inland 38, 323
- SKUA, GREAT, 172, 202, 405, 426; breeding Handa 313; breeding Outer Hebrides and St Kilda 144, 176, 202, 371; Fife in June 144; December 38, 88; inland 202; lifting Coot 202
- SKUA, LONG-TAILED, autumn 38, 285, 394, 427; inland 427
- SKUA, POMARINE, July 203; autumn 38, 172, 394, 427
- SKYLARK, 265, 400, 405
- SMEW, winter 36, 86, 142, 262, 319
- SNIPE, 399, 400, 404; unusual numbers 37
- SPARROWHAWK, 48, 263, 404
- SPARROW, HEDGE, ringing recovery 20
- SPARROW, TREE, 48, 149, 177, 206, 267, 268, 286, 377, 396, 403, 429
- SPOONBILL, Isle of May 285; Perth and Moray 310; N. Uist 422
- STARLING, 400, 405; ringing re-

coveries 20, 287

STILT, BLACK-WINGED, plate

STINT, LITTLE, spring 371; autumn (11th July to 4th November) 38, 201, 393, 426

STONECHAT, 90, 204, 389, 428; Asiatic race 177, 395

STORK, WHITE, Nairn and E. Inverness 246, 392; E. Lothian 406

SWALLOW, 19, 146, 373, 403; November and December 40, 90, 265

SWAN, BEWICK'S, winter 87, 142, 263, 320

SWAN, MUTE, big brood 142; movements in cast Scotland 301

SWAN, WHOOPER, 3, 18, 285; summer 142, 199, 263, 369, 423; high numbers 37, 87, 263; big flocks in fields 87, 263; display in winter 323

SWIFT, 145, 373, 428; November 323

SWIFT, ALPINE, Orkney 418; Fair Isle rejected 173

TEAL. 404

TEAL, BAIKAL, 177, 396

TEAL, GREEN-WINGED, E. Inverness 169; Renfrew 408

TERN, ARCTIC, 176, 372, 400, 402, 405; breeding S. Fife 313, 377

TERN, BLACK, spring inland 145; autumn inland 43, 203, 427; autumn at sea 39, 265, 427

TERN, COMMON, 145, 372, 405; inland 145, 203, 265

TERN, LITTLE, 145, 203, 372

TERN, ROSEATE, Tentsmuir 145; Forth 18, 172, 176

TERN, SANDWICH, 145, 176, 203, 372, 427

TERN, WHITE-WINGED BLACK, first Scottish 258, 391, 394

THRUSH, EYE-BROWED, first Scottish 391, 395, 418

THRUSH, SONG, 400, 401, 405, 431

TIT, BLUE, breeding Lewis 177, 374; Shetland immigrants 430; nesting associates 43

TIT, COAL, Lewis 374; Shetland

TIT, GREAT, W. Ross 90, 314; Lewis 266, 322, 374; Shetland immigrants 430; killing and carrying Wren 314

TIT, LONG-TAILED, flock Ross 146

TIT, MARSH, Roxburgh 204, 266, 395

TREECREEPER, 322; winter Orkney 322

TURNSTONE, 227, 404

TWITE, 42, 399, 400, 405

WAGTAIL, GREY, effect of severe winter 41; built-up areas 267, 322

WAGTAIL, PIED, 19, 149

WAGTAIL, WHITE, spring 149, 286, 322; autumn 405

WAGTAIL, 'YELLOW', breeding 149, 376; spring 149, 174, 376; autumn 42, 205, 396, 420, 429

WARBLER, BARRED, autumn 15, 16, 18, 19, 205, 284, 420, 429

WARBLER, GARDEN, 18, 148, 174, 268, 323, 375, 396, 405, 420, 429

WARBLER, GRASSHOPPER, 147, 174, 205, 323, 429,

WARBLER, GREAT REED, E. Inverness 315; Fair Isle 395

WARBLER, ICTERINE, June 375; autumn 16, 429

WARBLER, MARSH, rejected 177, 396

WARBLER, MELODIOUS, possible Fife 429

WARBLER, RADDE'S, first Scottish 168, 174

WARBLER, REED. 396

WARBLER, SEDGE, 147, 266, 375

WARBLER, WILLOW, 148, 375, 405, 429; ringing recoveries 19, 287; open nest plate 24

WARBLER, WOOD, 148, 376, 405, 429

WARBLER, YELLOW-BROWED, autumn 17, 267, 420, 429; reject Angus 174

WAXWING, 17, 18, 42, 267, 322, 389; October and November 1963 invasion 180

WHEATEAR, 19, 147, 374, 400, 405, 429; November 18, 41; 'Green-

- land' 405; pale creamy juvenile 431
- WHIMBREL, spring 143, 370; autumn 18, 200, 404; breeding 200, 370, 396; big flocks 200, 370
- WHINCHAT, 147, 375, 405, 429
- WHITETHROAT, 148, 375, 429; breeding in north-west 148, 205; ringing recoveries 287
- WHITETHROAT, LESSER, spring 286, 375; autumn 16, 267, 286 (November), 429; Roxburgh rejected 48
- WIGEON, summer 422; unusual winter numbers 85, 261
- WIGEON, AMERICAN, E. Inverness 360

- WOODCOCK, ringing recovery 20 WOODLARK, spring 285; autumn 18
- WOODPECKER, GREAT SPOT-TED, 48, 90, 150, 204, 322, 430; ringing recovery 20; Northern race 173, 395
- WOODPECKER, (FREEN, 48, 90, 146, 173, 176, 204, 265, 322, 373, 428
- WOODPIGEON, Outer Hebrides 403
- WREN, 59, 400, 405; killed by Great Tit 314
- WRYNECK, spring coast 373; autumn coast 16, 18, 19, 429; autumn inland 204; Inverness in summer 418

Scientific Names

This is a list of species mentioned in the index to volume 3 but not detailed in *Scottish Birds* 2: 515-517, where a complete list is given together with details of the authorities followed for scientific and English names.

Ardeola ibis Cattle Egret Phoenicopterus ruber Flamingo Oxyura jamaicensis Ruddy Duck Anser indicus Bar-headed Goose Circus macrourus Pallid Harrier Falco subbuteo Hobby Porphyrula poliocephalus Indian Gallinule Otis tetrax Little Bustard Recurvirostra avosetta Avocet Himantopus himantopus Black-winged Stilt Burhinus oedicnemus Stone Curlew Chlidonias leucopterus White-winged Black Tern Otus scops Scops Owl Lullula arborea Woodlark Oriolus oriolus Golden Oriole Parus palustris Marsh Tit Sitta europaea Nuthatch Turdus obscurus Eye-browed Thrush Acrocephalus arundinaceus Great Reed Warbler Hippolais polyglotta Melodious Warbler Hippolais icterina Icterine Warbler Carpodacus erythrinus Scarlet Grosbeak Passerina cyanea Indigo Bunting Passerina amoena Lazuli Bunting

List of Plates

Plate	\$		Pages
1-2	Dovecotes in Banffshire (R. Hewson)		28-29
3	Weighing month-old Golden Eagles (L. MacNally)		30
4	Juvenile Leach's Petrel (W. E. Waters)		75
5	Carn Mor, Hirta, St Kilda (W. E. Waters)		76
6	Leach's Petrel (W. E. Waters)		77
7	Red-throated Diver and chick (I. M. Thomson)		78
8-15	Gannets on the Bass Rock showing study area, stages of plumage and displays (J. B. Nelson, N. Tinbergen)		123-130
16-18	Plates from Robert Sibbald's Scotia Illustrata (I. D. Pennie)		185-187
19	Female Hen Harrier and chick (I. M. Thomson)		188
2()-23	Research by Culterty Field Station 20. Billy Murray sampling the mudflat fauna (A. Anderson) 21. Wing-tagged female Eider (H. Milne) 22. Colin Young with trapped Shelduck (G. M. Dunne 23. George Dunnet recording Fulmar on Eynhallow (J. Warham)	 et)	247 248 249 250
24	Willow Warbler with open nest (J. Edelsten)		303
25-26	Captive Ross's Goose with Grey Lag (D. Jenkins)		304-305
27	The late William Crawford and friends (J. MacGeoch)		306
28-33	Ptarmigan in Scotland in relation to habitat and behaviour with comparative plates of tracks of displaying cock Ptarmigan and Capercaillie in snow (D. Jenkins, A. Watson)		353-358
34	Speakers at the S.O.C. 1965 Annual Conference (J. MacGeoch)		413
35	Great Black-backed Gull landing on nest (W. S. Paton)		414
36	Lesser Black-backed Gulls displaying (W. S. Paton)	100	415

Please complete the Binding Form overleaf

RECEIPT FOR SCOTTISH BIRDS BINDING

From	G.	BLU	INT	& SO:	NS :	LTD.,	North	Acton	Road,	Harlesden,
				V. 10.						ŕ

We	ackno	wledge	with	thanks	receipt	of	your	parcel
of is	ssues o	f SCO	ГТІSН	BIRDS	S for bin	ndir	ng, an	d your
rem	ittance	of £		s	d			

Date	G.	BLUNT	&	SONS	LTD.

BOOKS - Handle with Care

	Name
	Address
	VOLUMES ENCLOSED:
Го	: G. BLUNT & SONS LTD., North Acton Road, Harlesden, London, N.W.10.
1	enclose cheque/P.O. £d. for binding in
	H Buckram
	☐ Quarter Leather
216	ease tick your choice in space above. Binding rates are: Buckram 19s 3d post paid; Quarter Leather 23s 9d post paid.
P1	ease fill in your Name and Address in both spaces on this page.
wi	Failure to do so may cause delay. The lower half of this sheeld be sent back to you as a receipt; the upper half is the label for ereturn of your bound volume.
1	
	Name
1	Address