

Ringing & Migration

VOLUME 23
2006 and 2007

Editor
Chris Redfern

Managing Editor
Jacquie Clark

Copy Editor
John Marchant

Editorial Board

2006

Guy Anderson, Franz Bairlein, Jon Coleman, Peter Ferns, Jennifer Gill, Åke Lindström, Iain Main,
Stephen Norman, Jane Reid, Roger Riddington and Graham Scott

2007

Guy Anderson, Franz Bairlein, Jon Coleman, Peter Ferns, Jennifer Gill, Åke Lindström,
Stephen Norman, Jane Reid, Roger Riddington and Graham Scott

ISSN 0307-8698

Ringling & Migration

Contents of Vol 23, 2006 and 2007

Part 1 (June 2006)

Measurement of mass change in breeding birds: a bibliography and discussion of measurement techniques. Sean A. Rands, Alasdair I. Houston and Innes C. Cuthill	1
Movements of British Hen Harriers <i>Circus cyaneus</i> outside the breeding season. Brian Etheridge and Ron W. Summers	6
Phenology of Western Olivaceous Warbler <i>Hippolais opaca</i> and Eastern Olivaceous Warbler <i>Hippolais pallida reiseri</i> on stopover sites in Mauritania. Volker Salewski and Marc Herremans	15
Post-breeding dispersal, breeding site fidelity and migration/wintering areas of migratory populations of Song Thrush <i>Turdus philomelos</i> in the Western Palearctic. R.D.P. Milwright	21
Autumn migration of Reed Buntings <i>Emberiza schoeniclus</i> in Switzerland. Patrick Schmitz and Florian Steiner	33
Wear and loss of rings used on Razorbills <i>Alca torda</i> – further caution in the estimation of large auk survival. Peter Lyngs	39
Migration patterns of two populations of Twite <i>Carduelis flavirostris</i> in Britain. André F. Raine, David J. Sowler, Andrew F. Brown and William J. Sutherland	45
Autumn migration of passerine long-distance migrants in northern Morocco observed by moon-watching. Gudrun Hilgerloh, Jan Weinbecker and Pavel Zehtindjiev	53
Biometrics and wing moult of migrating Red-rumped Swallows <i>Hirundo daurica</i> in Greece. Jeremy D. Wilson, Triantaphyllos Akriotis, Dawn E. Balmer, Les Hatton and Shirley Millar	57
Validity of ageing Wrens <i>Troglodytes troglodytes</i> on fourth primary spots. Robin M. Ward and Chris Du Feu	62

Part 2 (December 2006)

Survival rates of adult Reed Warblers <i>Acrocephalus scirpaceus</i> at a northern and southern site in England. Chris B. Thaxter, Chris P.F. Redfern and Richard M. Bevan	65
Migration of a Peregrine <i>Falco peregrinus</i> over water in the vicinity of a hurricane. M.J. McGrady, G.S. Young and W.S. Seegar	80
Annual survival rates of adult male Corsican Nuthatches <i>Sitta whiteheadi</i> . Jean-Claude Thibault and Stephanie Jenouvrier	85
Natal philopatry and local movement patterns of Twite <i>Carduelis flavirostris</i> . André F. Raine, David J. Sowler, Andrew F. Brown and William J. Sutherland	89
Population structure and origins of Purple Sandpipers <i>Calidris maritima</i> in north Norway during winter. Karl-Birger Strann, Ron W. Summers and Rab Rae	95
The effect of age and sex on wing morphology and body size of the Bearded Tit <i>Panurus biarmicus</i> in relation to complete moult. Ignacio García Peiró, Francisco Robledano and Miguel A. Esteve	101
Spring arrivals of migrant waders in Iceland in the 20th century. Hugh Boyd and Ævar Petersen	107
Biometrics of Citril Finch <i>Serinus citrinella</i> in the west Pyrenees and the influence of feather abrasion on biometric data Daniel Alonso and Juan Arizaga	116
Sexing Corn Buntings <i>Miliaria calandra</i> by discriminant function: a comment. John H. Morgan	125
Sexing Corn Buntings <i>Miliaria calandra</i> by discriminant function: a reply. F. Campos, M. Hernández, J. Arizaga, R. Miranda and A. Amezcua	126
Papers from Ringing Group reports. Ian R. Hartley	127

Part 3 (June 2007)

Different timing of autumn migration of two Ringed Plover <i>Charadrius hiaticula</i> subspecies through the southern Baltic revealed by biometric analysis. Włodzimierz Meissner	129
Biometrics of Ruffs <i>Philomachus pugnax</i> migrating in spring through southern Belarus with special emphasis on the occurrence of 'faeders'. Natalia Karlionova, Pavel Pinchuk, Włodzimierz Meissner and Yvonne Verkuil	134
Biometrics of the Southern Grey Shrike <i>Lanius meridionalis</i> in relation to age and sex. Francisco Gutiérrez-Corchero, Francisco Campos, M. Ángeles Hernández and Ana Amezcua	141
Grasshopper Warbler <i>Locustella naevia</i> autumn migration – findings from a study in southeast Britain. Nicholas J. Bayly and Stephen J.R. Rumsey	147
Bird ringing in Britain and Ireland in 2005. Jacquie A. Clark, Robert A. Robinson, Sue Y. Adams, Mark J. Grantham, Kate Risely, Dawn E. Balmer, Jeremy R. Blackburn, Bridget M. Griffin, John H. Marchant and Viola Kimmel	156

Part 4 (December 2007)

Wild birds and human pathogens in the context of ringing and migration. Hussein H. Abulreesh, Raymond Goulter and Graham W. Scott.....	193
Can migrating Tengmalm's Owls <i>Aegolius funereus</i> be reliably sexed in autumn using simple morphometric measurements? Tim Hipkiss	201
Plastic colour rings and the incidence of leg injury in flycatchers (Muscicapidae, Monarchidae). Andrew J. Pierce, Danaë K. Stevens, Raoul Mulder and Volker Salewski.....	205
Sex determination of Iberian Azure-winged Magpies <i>Cyanopica cyanus cooki</i> by discriminant analysis of external measurements. Susana Alarcos, Carlos de la Cruz, Elena Solis, Juliana Valencia and María Jesús García-Baquero.....	211
Continental Great Spotted Woodpeckers in mainland Britain - fact or fiction? John Coulson and Nigel Odin.....	217
A new insight into the ageing of Common Snipe <i>Gallinago gallinago</i> - the value of contrast within the wing coverts of adults. Krzysztof Kaczmarek, Piotr Minias, Radosław Włodarczyk, Tomasz Janiszewski and Anna Kleszcz.....	223
Time of roosting of Barn Swallows <i>Hirundo rustica</i> at an Irish reedbed during autumn migration. Patrick Smiddy, Chris Cullen and John O'Halloran.....	228
Measuring passerine productivity using constant effort sites: the effect of missed visits. Will Miles, Stephen N. Freeman, Nancy M. Harrison and Dawn E. Balmer.....	231
Site fidelity of Icelandic Greylag Geese between winters. Robert (Bob) L. Swann and Ivan K. Brockway	238
Migratory stopovers of passerines in an oasis at the crossroads of the African and Indian flyways. Nikita Chernetsov, Victor N. Bulyuk and Pavel Ktitorov.....	243
Population size estimation and metapopulation relationships of Storm Petrels <i>Hydrobates pelagicus</i> in the Gulf of Biscay. Iñigo Zuberogoitia, Ainara Azkona, Iñaki Castillo, Jabi Zabala, Jose Antonio Martínez and Jon Etxezarreta.....	252
Book Review: Graham Appleton.....	255

Ringling & Migration

INDEX TO VOLUME 23

Compiled by Hugh Insley

- ABULREESH, HUSSEIN H., RAYMOND GOULDER and GRAHAM W. SCOTT Wild birds and human pathogens in the context of ringing and migration 193
- Acanthiza* spp. 209
- Accipiter nisus* 196
- Acrocephalus dumetorum* 243
- A. schoenobaenus* 65, 147, 249
- A. scirpaceus* 65, 249
- Actitis hypoleucos* 132
- ADAMS, SUE Y. see CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL
- Aegolius funereus* 201
- A.f. richardsoni* 203
- Age 101; – determination 62, 223; – ratio 33; – segregation 95
- AKRIOTIS, TRIANTAPHYLLOS see WILSON, JEREMY D., TRIANTAPHYLLOS AKRIOTIS, DAWN E. BALMER, LES HATTON and SHIRLEY MILLAR
- ALARCOS, SUSANA, CARLOS DE LA CRUZ, ELENA SOLÍS, JULIANA VALENCIA and MARÍA JESÚS GARCÍA-BAQUERO Sex determination of Iberian Azure-winged Magpies *Cyanopica cyanus cooki* by discriminant analysis of external measurements 211
- Alauda arvensis* 14
- Alca torda* 39
- ALONSO, DANIEL and JUAN ARIZAGA Biometrics of Citril Finch *Serinus citrinella* in the west Pyrenees and the influence of feather abrasion on biometric data 116
- American Crow 194
- AMEZCUA, A. see CAMPOS, F., M. HERNÁNDEZ, J. ARIZAGA, R. MIRANDA and A. AMEZCUA
- AMEZCUA, ANA see GUTIÉRREZ-CORCHERO, FRANCISCO, FRANCISCO CAMPOS, M. ÁNGELES HERNÁNDEZ and ANA AMEZCUA
- Anser albifrons flavirostris* 242
- A. anser* 238
- A. brachyrhynchus* 195, 242
- A. indicus* 193
- Anthus pratensis* 14
- APPLETON, GRAHAM Book review 255
- Arenaria interpres* 107, 132
- ARIZAGA, J. see CAMPOS, F., M. HERNÁNDEZ, J. ARIZAGA, R. MIRANDA and A. AMEZCUA
- ARIZAGA, JUAN see ALONSO, DANIEL and JUAN ARIZAGA
- Asio otus* 195
- AZKONA, AINARA see ZUBEROGOITIA, IÑIGO, AINARA AZKONA, IÑAKI CASTILLO, JABI ZABALA, JOSE ANTONIO MARTÍNEZ and JON ETXEZARRETA
- Azure-winged Magpie 196, 211
- BALMER, DAWN E. see CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL
- BALMER, DAWN E. see MILES, WILL, STEPHEN N. FREEMAN, NANCY M. HARRISON and DAWN E. BALMER
- BALMER, DAWN E. see WILSON, JEREMY D., TRIANTAPHYLLOS AKRIOTIS, DAWN E. BALMER, LES HATTON and SHIRLEY MILLAR
- Bar-headed Goose 193
- Bar-tailed Godwit 132
- Barn Swallow 228
- BAYLY, NICHOLAS J. and STEPHEN J.R. RUMSEY Grasshopper Warbler *Locustella naevia* autumn migration – findings from a study in southeast Britain 147
- Bearded Tit 101
- Bell Miner 205
- BEVAN, RICHARD M., see THAXTER, CHRIS B., CHRIS P.F. REDFERN and RICHARD M. BEVAN
- Bill depth 33, 116; – length 16, 34, 95, 102, 129, 134; – morphology 116; – width 34, 116
- Biometrics 33, 57, 116, 129, 134, 141
- Black-headed Gull 195
- Black-headed Paradise-flycatcher 206
- British Trust for Ornithology, Ringing & Migration, 23

- Black-naped Monarch 206
 Black-tailed Godwit 108
 Blackbird 196
 BLACKBURN, JEREMY R. see CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL
 Blackcap 104, 232
 Blue Tit 232
 Blyth's Reed Warbler 243
 Body mass 1, 34, 66, 148, 201; – size 101
 Boreal Owl 202
 BOYD, HUGH and ÆVAR PETERSEN Spring arrivals of migrant waders in Iceland in the 20th century 107
Branta canadensis 195
 BROCKWAY, IVAN K. see SWANN, ROBERT (BOB) L. and IVAN K. BROCKWAY
 BROWN, ANDREW F. see RAINE, ANDRÉ F., DAVID J. SOWTER, ANDREW F. BROWN and WILLIAM J. SUTHERLAND 45, 89
 Brown-eared Bulbul 196
 Brown-headed Cowbird 196
 Bull-headed Shrike 145
 BULYUK, VICTOR N., see CHERNETSOV, NIKITA, VICTOR N. BULYUK and PAVEL KTITOROV
Buteo buteo 197
 Buzzard 197
- Calidris alba* 108
C. alpina 108, 196
C. canutus 108, 132
C. maritima 95, 108
C. mauri 99
C. temminckii 51
 CAMPOS, F., M. HERNÁNDEZ, J. ARIZAGA, R. MIRANDA and A. AMEZCUA Sexing Corn Buntings *Miliaria calandria* by discriminant function: a reply 126
 CAMPOS, F., see GUTIÉRREZ-CORCHERO, FRANCISCO, FRANCISCO CAMPOS, M. ÁNGELES HERNÁNDEZ and ANA AMEZCUA
Campylobacter 193
 Canada Goose 195
 Cannon nets 95, 238
Carduelis cannabina 92
C. carduelis 92
C. chloris 92
C. flammea 92
C. flavirostris 45, 89
C. spinus 104
Carpodacus purpureus 194
 CASTILLO, IÑAKI see ZUBEROGOITIA, IÑIGO, AINARA AZKONA, IÑAKI CASTILLO, JABI ZABALA, JOSE ANTONIO MARTÍNEZ and JON ETXEZARRETA
Certhia familiaris 232
 CES see Constant Effort Sites
 Chaffinch 36
Charadrius hiaticula 108, 129
 CHERNETSOV, NIKITA, VICTOR N. BULYUK and PAVEL KTITOROV Migratory stopovers of passerines in an oasis at the crossroads of the African and Indian flyways 243
 Chiffchaff 245
 Chilean Flamingo 194
Chondestes grammacus 208
Ciconia ciconia 194
Circus cyaneus 6
 Citril Finch 116
 CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL Bird ringing in Britain and Ireland in 2005 156
 Colour rings 45, 85, 89, 95, 205, 238
Columba livia 196
 Common Grackle 195
 Common Gull 197
 Common Redstart 244

Vol 23 Index

- Common Sandpiper 132
Common Snipe 108, 223
Common Tern 194, 205
Common Whitethroat 65, 147, 232
Constant Effort Sites (CES) 74, 231
Coot 196
Corn Bunting 125, 126
Corsican Nuthatch 85
Corvus brachyrhynchos 194
C. cornix 196
C. frugilegus 196
C. leuclantii 196
C. monedula 195
COULSON, JOHN and NIGEL ODIN Continental Great Spotted Woodpeckers in mainland Britain – fact or fiction? 217
Cuckoo 73
Cuculus canorus 73
CULLEN, CHRIS see SMIDDY, PATRICK, CHRIS CULLEN and JOHN O'HALLORAN
Culmen length 116
CUTHILL, INNES C., see RANDES, SEAN A., ALASDAIR I. HOUSTON and INNES C. CUTHILL
Cyanistes caeruleus 232
Cyanopica cyanus 196, 211
Cygnus olor 194

DE LA CRUZ, CARLOS see ALARCOS, SUSANA, CARLOS DE LA CRUZ, ELENA SOLÍS, JULIANA VALENCIA and MARÍA JESÚS GARCÍA-BAQUERO
Dendrocopos major 217
Dispersal, post-breeding 21; post-natal – 6, 89
DNA 134
DU FEU, CHRIS see WARD, ROBIN M. and CHRIS DU FEU
Dunlin 108, 196

Eastern Olivaceous Warbler 15
Emberiza schoeniclus 33, 232
Empidonax traillii 205
Erithacus rubecula 232, 245
Escherichia coli 193
ESTEVE, MIGUEL A. see PEIRÓ, IGNACIO GARCÍA, FRANCISCO ROBLEDANO and MIGUEL A. ESTEVE
ETHERIDGE, BRIAN and RON W. SUMMERS Movements of British Hen Harriers *Circus cyaneus* outside the breeding season 6
ETXEZARRETA, JON see ZUBEROGOITIA, IÑIGO, AINARA AZKONA, IÑAKI CASTILLO, JABI ZABALA, JOSE ANTONIO MARTÍNEZ and JON ETXEZARRETA
Eurasian Reed Warbler 65, 154, 249
Eurasian Treecreeper 232
European Robin 232, 245

Faeders 134
Falco columbarius 14
F. naumanni 197
F. peregrinus 80
F. tinnunculus 14
Fat, 147, 243; – deposition 74; – score 57, 148, 245
Feather abrasion 34, 101, 116
Feral Pigeon 196
Ficedula hypoleuca 206
F. parva 243
Fieldfare 29
First sighting dates 107
Flight range 147
FREEMAN, STEPHEN N. see MILES, WILL, STEPHEN N. FREEMAN, NANCY M. HARRISON and DAWN E. BALMER
Fringilla coelebs 36
Fuel load (see Fat)
Fulica atra 196

Gallinago gallinago 223

- G.g. faeroeensis* 108
 GARCÍA-BAQUERO, MARÍA JESÚS see ALARCOS, SUSANA, CARLOS DE LA CRUZ, ELENA SOLÍS, JULIANA VALENCIA and MARÍA JESÚS GARCÍA-BAQUERO
 Garden Warbler 53, 243
 Golden Plover 108
 Goldfinch 92
 GOULDER, RAYMOND see ABULREESH, HUSSEIN H., RAYMOND GOULDER and GRAHAM W. SCOTT
 GRANTHAM, MARK J. see CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL
 Grasshopper Warbler 147
 Great Grey Shrike 141
 Great Spotted Woodpecker 217
 Great Tit 196
 Greenfinch 92
 Greenland White-fronted Goose 242
 Grey Phalarope 108
 Grey Plover 132
 Greylag Goose 238
 GRIFFIN, BRIDGET M. see CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL
 Guillemot 39
 GUTIÉRREZ-CORCHERO, FRANCISCO, FRANCISCO CAMPOS, M. ÁNGELES HERNÁNDEZ and ANA AMEZCUA Biometrics of the Southern Grey Shrike *Lanius meridionalis* in relation to age and sex 141
- Haematopus ostralegus* 108
 Hare 14
 HARRISON, NANCY M., see MILES, WILL, STEPHEN N. FREEMAN, NANCY M. HARRISON and DAWN E. BALMER
 HARTLEY, IAN R. Papers from Ringing Group reports 127
 HATTON, LES see WILSON, JEREMY D., TRIANTAPHYLLOS AKRIOTIS, DAWN E. BALMER, LES HATTON and SHIRLEY MILLAR
 Helmeted Honeyeater 208
 Hen Harrier 6
 HERNÁNDEZ, M. see CAMPOS, F., M. HERNÁNDEZ, J. ARIZAGA, R. MIRANDA and A. AMEZCUA
 HERNÁNDEZ, M. ÁNGELES see GUTIÉRREZ-CORCHERO, FRANCISCO, FRANCISCO CAMPOS, M. ÁNGELES HERNÁNDEZ and ANA AMEZCUA
 HERREMANS, MARC see SALEWSKI, VOLKER and MARC HERREMANS
 HILGERLOH, GUDRUN, JAN WEINBECKER and PAVEL ZEHTINDJIEV Autumn migration of passerine long-distance migrants in northern Morocco observed by moon-watching 53
 HIPKISS, TIM Can migrating Tengmalm's Owls *Aegolius funereus* be reliably sexed in autumn using simple morphometric measurements? 201
Hippolais opaca 15
H. pallida 15
H.p. elaeica 15
H.p. laeneni 15
H.p. pallida 15
H.p. reiseri 15
Hirundo daurica 57
H. rustica 228
 Hooded Crow 196
 House Sparrow 196
 HOUSTON, ALASDAIR I. see RANDES, SEAN A., ALASDAIR I. HOUSTON and INNES C. CUTHILL
Hydrobates pelagicus 252
Hypothymis azurea 206
Hypsipetes amaurotis 196
- Integrated Population Monitoring (IPM) 231
- Jackdaw 195
 JANISZEWSKI, TOMASZ see KACZMAREK, KRZYSZTOF, PIOTR MINIAS, RADOSŁAW WŁODARCZYK, TOMASZ JANISZEWSKI and ANNA KLESZCZ
 JENOUVRIER, STEPHANIE see THIBAUT, JEAN-CLAUDE and STEPHANIE JENOUVRIER
 Jungle Crow 196

Vol 23 Index

- KACZMAREK, KRZYSZTOF, PIOTR MINIAS, RADOSŁAW WŁODARCZYK, TOMASZ JANISZEWSKI and ANNA KLESZCZ A new insight into the ageing of Common Snipe *Gallinago gallinago* – the value of contrast within the wing coverts of adults 223
- KARLIONOVA, NATALIA, PAVEL PINCHUK, WŁODZIMIERZ MEISSNER and YVONNE VERKUIL Biometrics of Ruffs *Philomachus pugnax* migrating in spring through southern Belarus with special emphasis on the occurrence of ‘faeders’ 134
- Keel length 211
- Kestrel 14
- KIMMEL, VIOLA see CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL
- KLESZCZ, ANNA see KACZMAREK, KRZYSZTOF, PIOTR MINIAS, RADOSŁAW WŁODARCZYK, TOMASZ JANISZEWSKI and ANNA KLESZCZ
- Knot 108, 132
- KTITOROV, PAVEL see CHERNETSOV, NIKITA, VICTOR N. BULYUK and PAVEL KTITOROV
- Lagopus lagopus* 14
- Lanius bucephalus* 145
- L. collurio* 145
- L. excubitor* 141
- L. ludovicianus* 141
- L. meridionalis* 141
- Lapwing 196
- Lark Sparrow 208
- Larus argentatus smithsonianus* 194
- L. canus* 197
- L. michahellis* 252
- L. ridibundus* 195
- Leaden Flycatcher 209
- Leg injury 205
- Lepus* spp. 14
- Lesser Kestrel 197
- Lesser Whitethroat 232
- Lichenostomus melanops* 209
- Limosa lapponica* 132
- L. limosa islandica* 108
- Linnet 92
- Locustella naevia* 147
- Loggerhead Shrike 141
- Long-eared Owl 195
- Longevity 85
- LYNGS, PETER Wear and loss of rings used on Razorbills *Alca torda* – further caution in the estimation of large auk survival 39
- Madagascar Paradise-flycatcher 206
- Magpie 195
- Manorina melanophrys* 205
- MARCHANT, JOHN H. see CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL
- Mark-recapture 65
- MARTÍNEZ, JOSE ANTONIO see ZUBEROGOITIA, IÑIGO, AINARA AZKONA, IÑAKI CASTILLO, JABI ZABALA, JOSE ANTONIO MARTÍNEZ and JON ETXEZARRETA
- McGRADY, M.J., G.S. YOUNG and W.S. SEEGAR Migration of a Peregrine *Falco peregrinus* over water in the vicinity of a hurricane 80
- Meadow Pipit 14
- Mealy Redpoll 92
- MEISSNER, WŁODZIMIERZ Different timing of autumn migration of two Ringed Plover *Charadrius hiaticula* subspecies through the southern Baltic revealed by biometric analysis 129
- MEISSNER, WŁODZIMIERZ see KARLIONOVA, NATALIA, PAVEL PINCHUK, WŁODZIMIERZ MEISSNER and YVONNE VERKUIL
- Merlin 14
- Migration, 80; autumn – 15, 21, 33, 53, 129, 147, 223, 228; – phenology 15; spring – 15, 21, 80, 134
- MILES, WILL, STEPHEN N. FREEMAN, NANCY M. HARRISON and DAWN E. BALMER Measuring passerine productivity using constant effort sites: the effect of missed visits 231
- Miliaria calandria* 125, 126
- MILLAR, SHIRLEY see WILSON, JEREMY D., TRIANTAPHYLLOS AKRIOTIS, DAWN E. BALMER, LES HATTON and SHIRLEY MILLAR
- MILWRIGHT, R.D.P. Post-breeding dispersal, breeding site fidelity and migration/wintering areas of migratory populations of Song
- British Trust for Ornithology, Ringing & Migration, 23

- Thrush *Turdus philomelos* in the Western Palearctic 21
 MINIAS, PIOTR see KACZMAREK, KRZYSZTOF, PIOTR MINIAS, RADOSŁAW WŁODARCZYK, TOMASZ JANISZEWSKI and ANNA KLESZCZ
 MIRANDA, R. see CAMPOS, F., M. HERNÁNDEZ, J. ARIZAGA, R. MIRANDA and A. AMEZCUA
 Mist net 15, 46, 57, 85, 116, 135, 147, 223, 228, 231, 244, 252
 Mistle Thrush 195
Molothrus ater 196
 Moon watching 53
 MORGAN, JOHN H. Sexing Corn Buntings *Miliaria calandra* by discriminant function: a comment 125
 Mortality rate 66
 Moulting, post-breeding – 116; post-juvenile – 101, 116, 223; primary – 100; suspended – 57; wing – 57
 MULDER, RAOUL see PIERCE, ANDREW J., DANAË K. STEVENS, RAOUL MULDER and VOLKER SALEWSKI
Muscicapa striata 206, 249
 Mute Swan 194
Myiagra rubecula 209
- Neck collars 238
 North Island Robin 205
Numenius phaeopus islandicus 108
- ODIN, NIGEL see COULSON, JOHN and NIGEL ODIN
 O'HALLORAN, JOHN see SMIDDY, PATRICK, CHRIS CULLEN and JOHN O'HALLORAN
Oryctolagus cuniculus 14
 Oystercatcher 108
- Panurus biarmicus* 101
Parus major 196
Passer domesticus 196
 PEIRÓ, IGNACIO GARCÍA, FRANCISCO ROBLEDANO and MIGUEL A. ESTEVE The effect of age and sex on wing morphology and body size of the Bearded Tit *Panurus biarmicus* in relation to complete moult 101
 Peregrine 80
 PETERSEN, ÆVAR see BOYD, HUGH and ÆVAR PETERSEN
Petroica longipes 205
Phalacrocorax aristotelis 252
Phalaropus fulicarius 108
P. lobata 108
 Phenology 147, 245
Philomachus pugnax 134
 Philopatry, natal 89
Phoenicopterus chilensis 194
Phoenicurus phoenicurus 244
Phylloscopus collybita 245
P. trochilus 65, 147, 245
Pica pica 195
 Pied Flycatcher 206
 PIERCE, ANDREW J., DANAË K. STEVENS, RAOUL MULDER and VOLKER SALEWSKI Plastic colour rings and the incidence of leg injury in flycatchers (Muscicapidae, Monarchidae) 205
 PINCHUK, PAVEL see KARLIONOVA, NATALIA, PAVEL PINCHUK, WŁODZIMIERZ MEISSNER and YVONNE VERKUIL
 Pink-footed Goose 195, 242
Pluvialis apricaria 108
P. squatarola 132
 Population change 65; – size 252; – structure 95
 Potter trap 141
 Productivity 232
 Purple Finch 194
 Purple Sandpiper 95, 108
- Quiscalus quiscula* 195
- Rabbit 14
 RAE, RAB see STRANN, KARL-BIRGER, RON W. SUMMERS and RAB RAE
 RAINE, ANDRÉ F., DAVID J. SOWTER, ANDREW F. BROWN and WILLIAM J. SUTHERLAND Migration patterns of two populations of Twite *Carduelis flavirostris* in Britain 45

Vol 23 Index

- RAINE, ANDRÉ F., DAVID J. SOWTER, ANDREW F. BROWN and WILLIAM J. SUTHERLAND Natal philopatry and local movement patterns of Twite *Carduelis flavirostris* 89
- RANDS, SEAN A., ALASDAIR I. HOUSTON and INNES C. CUTHILL Measurement of mass change in breeding birds: a bibliography and discussion of measurement techniques 1
- Razorbill 39
- Red-backed Shrike 145
- Red-breasted Flycatcher 243
- Red Grouse 14
- Red-necked Phalarope 108
- Red-rumped Swallow 57
- REDFERN, CHRIS P.F. see THAXTER, CHRIS B., CHRIS P.F. REDFERN and RICHARD M. BEVAN
- Redshank 108, 196
- Redwing 29
- Reed Bunting 33, 232
- Reed Warbler (see Eurasian Reed Warbler)
- Reproductive changes 1
- Ring loss 39; – wear 39
- Ringed Plover 108, 129
- Ringed effort 67
- Riparia riparia* 65, 228
- RISELY, KATE see CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL
- ROBINSON, ROBERT A. see CLARK, JACQUIE A., ROBERT A. ROBINSON, SUE Y. ADAMS, MARK J. GRANTHAM, KATE RISELY, DAWN E. BALMER, JEREMY R. BLACKBURN, BRIDGET M. GRIFFIN, JOHN H. MARCHANT and VIOLA KIMMEL
- ROBLEDANO, FRANCISCO see PEIRÓ, IGNACIO GARCÍA, FRANCISCO ROBLEDANO and MIGUEL A. ESTEVE
- Rook 196
- Roosting time 228
- Ruff 134
- RUMSEY, STEPHEN J.R., see BAYLY, NICHOLAS J. and STEPHEN J.R. RUMSEY
- Sahel Region 67
- SALEWSKI, VOLKER and MARC HERREMANS Phenology of Western Olivaceous Warbler *Hippolais opaca* and Eastern Olivaceous Warbler *Hippolais pallida reiseri* on stopover sites in Mauritania 15
- SALEWSKI, VOLKER see PIERCE, ANDREW J., DANAË K. STEVENS, RAOUL MULDER and VOLKER SALEWSKI
- Salmonella 193
- Sand Martin 65, 228
- Sanderling 108
- SCHMITZ, PATRICK and FLORIAN STEINER Autumn migration of Reed Buntings *Emberiza schoeniclus* in Switzerland 33
- SCOTT, GRAHAM W. see ABULREESH, HUSSEIN H., RAYMOND GOULDER and GRAHAM W. SCOTT
- Sedge Warbler 65, 147, 249
- SEEGAR, W.S. see McGRADY, M.J., G.S. YOUNG and W.S. SEEGAR
- Serinus citrinella* 116
- Sex bias 242; – determination 62, 66, 125, 201, 211; – dimorphism 14, 37, 96, 138, 211; – ratio 33, 134
- Shag 252
- Siskin 104
- Site fidelity, breeding 21, 89; wintering – 238
- Sitta whiteheadi* 85
- Skylark 14
- SMIDDY, PATRICK, CHRIS CULLEN and JOHN O'HALLORAN Time of roosting of Barn Swallows *Hirundo rustica* at an Irish reedbed during autumn migration 228
- SOLÍS, ELENA see ALARCOS, SUSANA, CARLOS DE LA CRUZ, ELENA SOLÍS, JULIANA VALENCIA and MARÍA JESÚS GARCÍA-BAQUERO
- Song Thrush 21, 65, 196
- Sound lures 16, 148, 228, 252
- Southern Grey Shrike 141
- SOWTER, DAVID J. see ANDRÉ F. RAINE, DAVID J. SOWTER, ANDREW F. BROWN and WILLIAM J. SUTHERLAND 45, 89
- Sparrowhawk 196
- Spotted Flycatcher 206, 249
- Starling 194
- STEINER, FLORIAN see SCHMITZ, PATRICK and FLORIAN STEINER
- Sterna hirundo* 194, 205
- STEVENS, DANAË K. see PIERCE, ANDREW J., DANAË K. STEVENS, RAOUL MULDER and VOLKER SALEWSKI
- Storm Petrel 252

- STRANN, KARL-BIRGER, RON W. SUMMERS and RAB RAE Population structure and origins of Purple Sandpipers *Calidris maritima* in north Norway during winter 95
- Sturnus vulgaris* 194
- SUMMERS, RON W. see ETHERIDGE, BRIAN and RON W. SUMMERS
- SUMMERS, RON W. see STRANN, KARL-BIRGER, RON W. SUMMERS and RAB RAE
- Survival 1; – rate 65, 85; juvenile/first winter – 65
- SUTHERLAND, WILLIAM J. see RAINE, ANDRÉ F., DAVID J. SOWTER, ANDREW F. BROWN and WILLIAM J. SUTHERLAND 45, 89
- SWANN, ROBERT (BOB) L. and IVAN K. BROCKWAY Site fidelity of Icelandic Greylag Geese between winters 238
- Sylvia atricapilla* 104, 232
- S. borin* 53, 243
- S. communis* 65, 147, 232
- S. curruca* 232
- Tail fork 57
- Tail length 57, 116, 201, 211
- Tarsus length 16, 57, 102, 129, 134, 212
- Tengmalm's Owl 201
- Terpsiphone mutata* 206
- T. rufiventer* 206
- THAXTER, CHRIS B., CHRIS P.F. REDFERN and RICHARD M. BEVAN Survival rates of adult Reed Warblers *Acrocephalus scirpaceus* at a northern and southern site in England 65
- THIBAUT, JEAN-CLAUDE and STEPHANIE JENOUVRIER Annual survival rates of adult male Corsican Nuthatches *Sitta whiteheadi* 85
- Thornbill 209
- Total head length 129, 134, 211
- Tringa totanus* 108, 196
- Troglodytes troglodytes* 62
- Turdus iliacus* 29
- T.i. coburni* 31
- T. merula* 196
- T. philomelos* 21, 65, 196
- T.p. clarkei* 21
- T.p. hebridensis* 21
- T. pilaris* 29
- T. viscivorus* 195
- Turnstone 108, 132
- Twite 45, 89
- Uria aalge* 39
- Uropygial gland 208
- VALENCIA, JULIANA see ALARCOS, SUSANA, CARLOS DE LA CRUZ, ELENA SOLÍS, JULIANA VALENCIA and MARÍA JESÚS GARCÍA-BAQUERO
- Vanellus vanellus* 196
- VERKUIL, YVONNE see KARLIONOVA, NATALIA, PAVEL PINCHUK, WŁODZIMIERZ MEISSNER and YVONNE VERKUIL
- Walk-in traps 129, 134, 223
- WARD, ROBIN M. and CHRIS DU FEU Validity of ageing Wrens *Troglodytes troglodytes* on fourth primary spots 62
- Weight change 1
- WEINBECKER, JAN, see HILGERLOH, GUDRUN, JAN WEINBECKER and PAVEL ZEHTINDJIEV
- Western Olivaceous Warbler 15
- Western Sandpiper 99
- Whimbrel 108
- White Stork 194
- Whitethroat (see Common Whitethroat)
- Whoosh nets 46
- Willow Flycatcher 205
- Willow Warbler 65, 147, 245
- WILSON, JEREMY D., TRIANTAPHYLLOS AKRIOTIS, DAWN E. BALMER, LES HATTON and SHIRLEY MILLAR Biometrics and wing moult of migrating Red-rumped Swallows *Hirundo daurica* in Greece 57
- Wing formula 102; – length 34, 57, 62, 68, 95, 116, 125, 126, 129, 134, 148, 201, 211, 217; – morphology 101, 116
- Wing tags 6

Vol 23 Index

Wintering areas 21, 45

WŁODARCZYK, RADOSŁAW see KACZMAREK, KRZYSZTOF, PIOTR MINIAS, RADOSŁAW WŁODARCZYK, TOMASZ
JANISZEWSKI and ANNA KLESZCZ

Wren 62

Yellow-legged Gull 252

YOUNG, G.S. see McGRADY, M.J., G.S. YOUNG and W.S. SEEGAR

ZABALA, JABI see ZUBEROGOITIA, IÑIGO, AINARA AZKONA, IÑAKI CASTILLO, JABI ZABALA, JOSE ANTONIO MARTÍNEZ
and JON ETXEZARRETA

ZEHTINDJIEV, PAVEL see HILGERLOH, GUDRUN, JAN WEINBECKER and PAVEL ZEHTINDJIEV

Zoonoses 193

ZUBEROGOITIA, IÑIGO, AINARA AZKONA, IÑAKI CASTILLO, JABI ZABALA, JOSE ANTONIO MARTÍNEZ and JON
ETXEZARRETA Population size estimation and metapopulation relationships of Storm Petrels *Hydrobates pelagicus* in the Gulf of Biscay
252