

# *Ringling & Migration*

**VOLUME 16  
1995**

*Editor*

James A Fowler

*Editorial Panel*

Franz Bairlein, Peter Ferns, Stephen Norman, David Norman  
Roger Riddington and Juliet Vickery

ISSN 0307-8698

## **Ringling & Migration**

*List of Line Drawings in Volume 16*

|                                       | <i>Page</i>        |
|---------------------------------------|--------------------|
| Great Tit (A. J. MACKAY) .....        | Inside front cover |
| Red-throated Diver (P. SCLATER) ..... | 64                 |

# Ringing & Migration

*Contents of Volume 16, 1995*

| <i>Part 1 (April 1995)</i>                                                                                                                                                                                                  | <i>Page</i> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Flock composition and biometrics of Fieldfares <i>Turdus pilaris</i> wintering in a Cheshire orchard. D. Norman .....                                                                                                       | 1           |
| Transatlantic recovery of a ringed Roseate Tern <i>Sterna dougallii</i> . Ian C. T. Nisbet and David Cabot .....                                                                                                            | 14          |
| Report on bird ringing in Britain and Ireland for 1993. C. J. Mead, J. A. Clark and W. J. Peach. ....                                                                                                                       | 16          |
| <i>Part 2 (August 1995)</i>                                                                                                                                                                                                 |             |
| A comparison of wing length and primary length as size measures for small passerines: A report to the British Ringing Committee. A. G. Gosler, J. J. D. Greenwood, J. K. Baker and J. R. King. ....                         | 65          |
| Migratory movements and mortality of Danish Avocets <i>Recurvirostra avosetta</i> Jacob Christian Salvig. ....                                                                                                              | 79          |
| Biometrics of Sanderlings <i>Calidris alba</i> from the Taimyr. M. Yu. Sloviev and P. S. Tomkovich. ....                                                                                                                    | 91          |
| Patterns of abundance, body-mass dynamics and habitat use of the Reed Warbler <i>Acrocephalus scirpaceus</i> in two reedbeds of south-eastern Spain. I. Garcia Peiro. ....                                                  | 100         |
| Relative masses of primary feathers. L. G. Underhill and A. Joubert. ....                                                                                                                                                   | 109         |
| Interrupted moult of some passerine birds in Southern Europe. Gabriel Gargallo. ....                                                                                                                                        | 117         |
| Who lives and who dies? The impact of severe April weather on breeding Common Sandpipers <i>Actitis hypoleucos</i> . P. K. Holland and D. W. Yalden .....                                                                   | 121         |
| Pitfalls in sexing Kittiwakes <i>Rissa tridactyla</i> on head + bill length. R. Y. McGowan and B. Zonfrillo. ....                                                                                                           | 124         |
| Yellow-browed Warbler with renewed rectrices. P. Harris. ....                                                                                                                                                               | 127         |
| <i>Part 3 (December 1995)</i>                                                                                                                                                                                               |             |
| Fledging success of wader chicks, estimated from ringing data. A. J. Beintema .....                                                                                                                                         | 129         |
| Biometrics and migration of Oystercatchers ( <i>Haematopus ostralegus</i> ) from the White Sea region (NW Russia). R. H. D. Lambek, V. V. Bianki, H. Schekkerman, E. G. J. Wessel, P. M. J. Herman and A. S. Koryakin. .... | 140         |
| Sex differences in the migration, moult and wintering areas of British-ringed Ruff. J. A. Gill, J. A. Clark, N. A. Clark and W. J. Sutherland. ....                                                                         | 159         |
| The primary moult of Curlew Sandpiper in the Ebro Delta, North-East Spain. J. Figuerola and A. Bertolero .....                                                                                                              | 168         |

|                                                                                                                                          |     |
|------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Ageing and sexing Marsh Tits <i>Parus palustris</i> J. R. King and<br>J. L. Muddeman. ....                                               | 172 |
| Extensive moult and ageing in six species of passerines. G. Gargallo and<br>O. Clarabuch. ....                                           | 178 |
| Remoult of tertials during post-juvenile and post-nuptial moult in Sardinian Warblers<br><i>Sylvia melanocephala</i> . G. Gargallo ..... | 190 |

## Ringling & Migration

*Index to Volume 16*

Compiled by Hugh Insley

All species of bird mentioned in the text are included except those mentioned in the 1993 Ringing Report. Page numbers given are those of the first mention of the species in each paper.

*Actitis hypoleucos* 121  
*Acrocephalus baeticatus* 112  
*A. melanopogon* 74  
*A. schoenobaenus* 70  
*A. scirpaceus* 70, 100  
African Marsh Warbler 112  
Age determination 172, 178  
*Anthus pratensis* 70  
Arctic Tern 111  
*Arenaria interpres* 111  
Avocet 79

BAKER, J. K. (see GOSLER, A. G., GREENWOOD, J. J. D., BAKER, J. K. and KING, J. R.)  
Bar-tailed Godwit 111  
BEINTEMA, A. J. Fledging success of wader chicks, estimated from ringing data 129  
BERTOLERO, A. (see FIGUEROLA, J. and BERTOLERO, A.)  
BIANKI, V. V. (see LAMBERT, R. H. D., BIANKI, V. V., SCHEKKERMAN, H., WESSEL, E. G. J., HERMAN, P. M. J. and KORYAKIN, A. S.)  
Bill length 129, 140  
Blackbird 12, 69  
Blackcap 12, 70, 117  
Black-tailed Godwit 129, 170  
Blue Tit 74, 173  
Body mass 1, 91, 100, 131, 140  
Bonelli's Warbler 117  
Bristle-thighed Curlew 111  
Brood patch 100  
Brown-throated Martin 112  
Bully Canary 112

CABOT, D. (see NISBET, I. C. T. and CABOT, D.)  
*Calidris alba* 91, 111  
*C. alpina* 98, 111, 165, 170  
*C. canutus* 111  
*C. ferruginuea* 111, 168

*C. maritima* 111, 170  
*C. mauri* 98  
*C. minuta* 111  
 Cape Bulbul 112  
 Cape Robin 112  
 Cape Sugarbird 112  
 Cape Weaver 112  
 Cape White-eye 112  
*Carduelis carduelis* 178  
*C. cannabina* 70, 178  
*C. chloris* 74, 178  
*C. flammea* 70, 98  
*C. hornemanni* 98  
*C. spinus* 117  
*Cettia cettia* 74  
 Cetti's Warbler 74  
 Chaffinch 8, 74  
*Charadrius montanus* 138  
*C. pallidus* 111  
*C. squatarola* 111  
 Chestnut-banded Plover 111  
 Chiffchaff 70, 127, 178  
 CLARABUCH, O. (see GARGALLO, G., and CLARABUCH, O.)  
 CLARK, J. A. (see GILL, J. A., CLARK, J. A., CLARK, N. and SUTHERLAND, W. J.)  
 Coal Tit 74, 173  
 Common Sandpiper 121  
 Common Snipe 111  
 Common Tern 111  
 Common Waxbill 112  
 Constant effort sites 27  
 Coot 152  
 Corn Bunting 7  
*Cossypha caffra* 112  
 Curlew Sandpiper 111, 168  
  
 Dunlin 98, 111, 165, 170  
 Dunnock 67  
  
*Emberiza schoeniclus* 74  
*Erithacus rubecula* 12, 70  
*Estrilda astrild* 112  
 Ethiopian Snipe 111  
  
*Falco naumanni* 111  
 Fat load 98  
*Ficedula hypoleuca* 70, 117, 170  
 Fieldfare 1  
 FIGUEROLA, J. and BERTOLERO, A. The primary moult of Curlew Sandpiper in the  
 Ebro Delta, North-East Spain 168

Forest Canary 112  
*Fringilla coelebs* 8, 74  
*Fulica atra* 152  
  
*Gallinago gallinago* 111  
*G. nigripennis* 111  
 Garden Warbler 12, 70  
 GARGALLO, G. Interrupted moult of some passerine birds in Southern Europe 117  
 GARGALLO, G. and CLARABUCH, O. Extensive moult and ageing in six species of passerines 178  
 GARGALLO, G. Remoult of tertials during post-juvenile and post-nuptial moult in Sardinian Warblers *Sylvia melanocephala* 190  
*Gelochelidon nilotica* 14  
 GILL, J. A., CLARK, J. A., CLARK, N. A. and SUTHERLAND, W. J. Sex differences in the migration, moult and wintering areas of British-ringed Ruff 159  
 Goldcrest 69  
 Goldfinch 178  
 GOSLER, A. G., GREENWOOD, J. J. D., BAKER, J. K. and KING, J. R. A comparison of wing length and primary length as size measures for small passerines: A report to the British Ringing Committee 65  
 Great Tit 74, 173  
 Greenfinch 74, 178  
 Greenshank 111  
 GREENWOOD, J. J. D. (see GOSLER, A. G., GREENWOOD, J. J. D., BAKER, J. K. and KING, J. K.)  
 Grey Plover 111  
 Gull-billed Tern 14  
  
*Haematopus ostralegus* 129, 140  
 HARRIS, P. Yellow-browed Warbler with renewed rectrices 127  
 Hatching date 129  
 Head and bill length 124  
 HERMAN, P. M. J. (see LAMBERT, R. H. D., BIANKI, V. V., SCHEKKERMAN, H., WESSEL, E. G. J., HERMAN, P. M. J. and KORYAKIN, A. S.)  
 HOLLAND, P. K. and YALDEN, D. W. Who lives and who dies? The impact of severe April weather on breeding Common Sandpipers *Actitis hypoleucos* 121  
 House Sparrow 69  
  
 JOUBERT, A. (see UNDERHILL, L. G. and JOUBERT, A.)  
  
 KING, J. R. (see GOSLER, A. G., GREENWOOD, J. J. D., BAKER, J. K. and KING, J. R.)  
 KING, J. R. and MUDDERMAN, J. L. Ageing and sexing Marsh Tits *Parus palustris* 172  
 Kittiwake 124  
 Knot 111  
 KORYAKIN, A. S. (see LAMBERT, R. H. D., BIANKI, V. V., SCHEKKERMAN, J. R., WESSEL, E. G. J., HERMAN, P. M. J. and KORYAKIN, A. S.)

LAMBERT, R. H. D., BIANKI, V. V., SCHEKKERMAN, H., WESSEL, E. G. J.  
 HERMAN, P. M. J. and KORYAKIN, A. S. Biometrics and migration of  
 Oystercatchers (*Haemotopus ostralegus*) from the White Sea region (NW Russia) 140  
*Lanius senator* 178  
 Lapwing 129  
 Laughing Dove 111  
 Lesser Double-collared Sunbird 112  
 Lesser Kestrel 111  
 Lesser Whitethroat 70  
*Limosa lapponica* 111, 170  
*L. limosa* 129  
 Linnet 69, 178  
 Little Stint 111  
  
 Marsh Tit 172  
 MCGOWAN, R. Y. and ZONFRILLO, B. Pitfalls in sexing Kittiwakes *Rissa tridactyla*  
 on head + bill length 124  
 Meadow Pipit 70  
*Motacilla alba alba* 74  
*M. a. yarrellii* 74  
 Migration, autumn 83; spring 85  
*Miliaria calandra* 7  
 Mistle Thrush 10  
 Mortality 79, 121  
 Moulting, arrested 167; interrupted 117; post-juvenile 178, 190; post-nuptial 118, 178,  
 190; primary 168; score 109, 160  
 Mountain Plover 138  
 Moustached Warbler 74  
 MUDDERMAN, J. L. (see KING, J. R., and MUDDERMAN, J. L.)  
  
*Nectarinia chalybea* 112  
 NISBET, I. C. T. and CABOT, D. Transatlantic recovery of a ringed Roseate Tern  
*Sterna dougallii* 14  
 NORMAN, D. Flock composition and biometrics of Fieldfares *Turdus pilaris* wintering  
 in a Cheshire orchard 1  
*Numenius phaeopus* 111  
*N. tahitiensis* 111  
 Nuthatch 74  
  
*Oenanthe oenanthe* 70  
 Olive Thrush 112  
 Oystercatcher 129, 140  
  
 Pacific Golden Plover 98  
*Parus ater* 74, 173  
*P. caeruleus* 74, 173  
*P. major* 74, 173  
*P. montanus* 177  
*P. palustris* 172

*Passer domesticus* 70  
*P. montanus* 66,  
 PEIRO, I. G. Patterns of abundance, body-mass dynamics and habitat use of the Reed Warbler *Acrocephalus scirpaceus* in two reedbeds of south-eastern Spain 100  
*Philomachus pugnax* 159  
 Philopatry 121  
*Phylloscopus bonelli* 117  
*P. collybita* 70, 127, 178  
*P. inornatus* 127  
*P. trochilus* 70, 112, 119  
 Pied Flycatcher 70, 117, 170  
 Pied Wagtail 74  
*Ploceus capensis* 112  
*Pluvialis fulva* 98  
 Primary: feather mass 109; feather length 65  
*Promerops cafer* 112  
*Prunella modularis* 72  
*Puffinus griseus* 111  
 Purple Sandpiper 111, 170  
*Pycnonotus capensis* 112  
  
 Recovery rate 79  
 Rectrices 127  
*Recurvirostra avosetta* 79  
 Red-faced Mouse-bird 111  
 Redpoll 70, 98  
 Redshank 111, 129  
 Redwing 67  
 Reed Bunting 74  
 Reed Warbler 70, 100  
*Regulus regulus* 70  
*Riparia paludicola* 112  
*R. riparia* 70  
*Rissa tridactyla* 124  
 Robin 12, 67  
 Roseate Tern 14  
 Ruff 159  
  
 SALVIG, J. C. Migratory movements and mortality of Danish Avocets *Recurvirostra avosetta* 79  
 Sanderling 91, 111  
 Sand Martin 70  
 Sardinian Warbler 190  
 Sedge Warbler 69, 107  
 Serin 178  
*Serinus scotops* 112  
*S. serinus* 178  
*S. sulphuratus* 112  
*S. flaviventris* 112

*S. albogularis* 112  
 Sex: determination 91, 172; dimorphism 65, 92; ratio 1, 167, 168  
 SCHEKKERMAN, H. (see LAMBERT, R. H. D., BIANKI, V. V., SCHEKKERMAN, H., WESSEL, E. G. J., HERMAN, P. M. J. and KORYAKIN, A. S.)  
 Siskin 117  
*Sitta europaea* 74  
 SOLOVIEV, M. Y. and TOMKOVICH, P. S. Biometrics of Sanderlings *Calidris alba* from the Taimyr 91  
 Song Thrush 67  
 Sooty Shearwater 111  
 Starling 1, 70, 112  
*Sterna dougallii* 14  
*S. hirundo* 111  
*S. paradisea* 111  
*Streptopelia senegalensis* 111  
*Sturnus vulgaris* 1, 70, 112  
 Subalpine Warbler 117  
 Survival rate 138  
 SUTHERLAND, W. J. (see GILL, J. A., CLARK, J. A., CLARK, N. A. and SUTHERLAND, W. J.)  
*Sylvia atricapilla* 12, 70, 117  
*S. borin* 12, 70  
*S. cantillans moltonii* 117  
*S. curruca* 70  
*S. melanocephala* 190  
  
 TOMKOVICH, S. (see SOLOVIEV, M. Y. and TOMKOVICH, P. S.)  
 Tree Sparrow 66  
*Tringa nebularia* 111  
*T. totanus* 111, 129  
*Turdus iliacus* 70  
*T. merula* 12, 70  
*T. olivaceus* 112  
*T. philomelos* 70  
*T. pilaris* 1  
*T. viscivorus* 10  
 Turnstone 111  
  
 UNDERHILL, L. G. and JOUBERT, A. Relative masses of primary feathers 109  
*Urocolius indicus* 111  
*Vanellus vanellus* 129  
  
 WESSEL, E. G. J. (see LAMBERT, R. H. D., BIANKI, V. V., SCHEKKERMAN, H., WESSEL, E. G. J., HERMAN, P. M. J. and KORYAKIN, A. S.)  
 Wheatear 70  
 Whimbrel 111  
 White-throated Canary 112  
 Willow Tit 177

Willow Warbler 70, 112, 119  
Wing length 1, 65, 121, 144, 160, 175  
Woodchat Shrike 178

YALDEN, D. W. (see HOLLAND, P. K. and YALDEN, D. W.)  
Yellow-browed Warbler 127  
Yellow Canary 112

ZONFRILLO, B. (see MCGOWAN, R. Y. and ZONFRILLO, B.)  
*Zosterops pallidus* 112