

WADER STUDY GROUP BULLETIN

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Breeding Waders in Europe

A Review of Population Size Estimates
and a Bibliography of Information Sources


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Breeding Waders in Europe is published by the Wader Study Group, with the financial assistance of The Nature Conservancy Council, and the Directie Natuur, Milieu en Faunabeheer (NMF) of the Ministerie van Landbouw en Visserij.

The Wader Study Group is an international voluntary association of amateur and professional researchers on all aspects of the biology and ecology of waders (or shorebirds). The Group has rapid access to experienced people throughout the field of wader research. The Group was founded in Britain in 1970 and its administration is still based in Britain, but it now has a worldwide membership.

The Nature Conservancy Council is the Government body responsible for all aspects of nature conservation in Great Britain. It was established by Acts of Parliament dating back to 1949. Its work falls into 4 main categories: the establishment, maintenance and management of National Nature Reserves; the identification and notification of Sites of Special Scientific Interest; the provision of advice and dissemination of knowledge about nature conservation; and the support and conduct of research relevant to these functions.

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CORRECTION

In Table 2 (p. 9) some figures were accidentally shifted up one line: the correct population estimates are as follows:

	Great Britain & Ireland	France	north-east Spain	Portugal
Great Snipe <i>Gallinago media</i>	-	-	-	-
Woodcock <i>Scolopax rusticola</i>	10 000-45 000	?	100-200	?
Black-tailed Godwit <i>Limosa limosa</i>	-	-	-	-
<i>islandica</i>	-	-	-	-
<i>limosa</i>	50-60	38-51	-	-

BREEDING WADERS IN EUROPE

A Review of Population Size Estimates
and A Bibliography of Information Sources

Compiled by Theunis Piersma, for the Wader Study Group

Published by the Wader Study Group, with the financial assistance of the Nature Conservancy Council, Great Britain, and the Directie Natuur, Milieu en Faunabeheer of the Ministerie van Landbouw en Visserij, The Netherlands.

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1. ABSTRACT

PIERSMA, T. (compiler). 1986. Breeding waders in Europe: a review of population size estimates and a bibliography of information sources. *Wader Study Group Bull.* 48, Suppl.: 1-116.

This is a review of population size estimates of all the Palearctic wader (Charadrii) species breeding in the greater part of Europe (Iceland, Faroe Islands, Norway, Sweden, Finland, Denmark, Poland, Czechoslovakia, Hungary, Austria, Switzerland, East and West Germany, The Netherlands, Belgium, Luxemburg, Great Britain, Ireland, France, north-east Spain and Portugal), plus Svalbard, north and east Greenland and Ellesmere Island. The review is based on published sources and on the results of the most recent surveys, supplied as unpublished material by national correspondents. A total of 37 wader species are included. Together they give a total of 6.5 million breeding wader pairs in Europe and a further 100 000 pairs in Svalbard, Greenland and Ellesmere Island. Species' totals range from 30 pairs (Terek Sandpiper) to 869 000 pairs (Lapwing). The completeness and accuracy of the surveys in the different countries varies greatly. For each species an annotated map, summarising the numerical distribution of breeding pairs over Europe, is given. In addition to the population size estimates, this document aims to list all published sources on which the estimates are based, and also to list all the recent (from 1950 onwards) publications on the breeding biology of waders in Europe. The bibliography consists of 3374 entries: 326 for breeding biological studies of general interest, 887 for species specific studies and 2161 for publications on breeding wader surveys, listed by country. The gaps in the current knowledge of the distribution, size and biology of European breeding wader populations are highlighted. This should stimulate and focus future work on breeding waders both in the areas covered by this review, and elsewhere in Europe.

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2. INTRODUCTION

Wetlands are biologically rich areas but tend to be threatened by very many human developments. These include drainage for agricultural intensification, land-claim for industry, major coastal engineering projects and peat-extraction or afforestation of moorland areas. For these reasons, wetlands are an important issue in nature conservation, and much international attention has been focussed upon them. Wetlands also provide the habitat for some of the most migratory species of birds, including waders, which depend on international co-operation for their effective conservation. These two features contributed to one of the first world-wide international agreements on nature conservation: the Convention on Wetlands of International Importance Especially as Waterfowl Habitat, agreed at Ramsar, Iran in 1971. Under this Convention, Contracting Parties agree to make wise use of wetlands within their territory and to list wetlands of international importance (see below) within their territory. They agree also to establish nature reserves on wetlands whether they are included in the list or not, and provide adequately for their wardening. Contracting Parties are also required to advise the Bureau of the Convention if any wetland they have designated under the Convention has changed, is changing or is likely to change as a result of technological developments, pollution or other human interference.

The importance of conserving wetlands is specifically noted in several other international agreements, including the European Community (EC) Directive on the Conservation of Wild Birds 1979. This requires the establishment of Special Protection Areas

in the most suitable places for the conservation of certain rare or vulnerable species and of regularly occurring migratory species. These areas should include breeding, moulting and wintering areas and staging posts along migration routes, particular attention being paid to wetlands. Thus the Directive also is very relevant to waders. Member states are required to take appropriate steps to avoid pollution or deterioration of habitats or disturbance in these areas, and also to strive to avoid pollution and deterioration of habitats outside these areas.

Meetings of Contracting Parties to the Ramsar Convention have agreed, most recently at Cagliari, Italy in 1980, criteria by which to assess whether a wetland is of international importance. Whilst general criteria exist and are likely to be made progressively more specific by future meetings of Contracting Parties as more information becomes available, the specific criteria presently available relate primarily to numbers of wintering waterfowl. In the non-breeding season, most waterfowl tend to be concentrated at wetland sites which themselves form a rather small proportion of total habitat in the regions concerned. The International Waterfowl Research Bureau (IWRB) has been instrumental in encouraging counts at such areas and bringing together information so that the numerical importance of individual sites can be assessed.

In the breeding season, most waterfowl are far more dispersed. This has several implications. First, it is far more difficult to estimate population sizes. Second, there has been general assumption that, as so many of the

populations breed in remote arctic areas, they are safe from major habitat loss. Third, it has been assumed that, even for those species breeding in temperate areas, the wide dispersion of the birds would mean that habitat changes on a sufficiently wide scale as to significantly affect the populations are unlikely. The last two assumptions are now known to be incorrect. Whilst arctic-breeding populations indeed spread over an immense area, temperate-breeding populations tend to occur at much higher densities and therefore constitute a more important component of the total populations than previously supposed. Furthermore, increasingly ambitious engineering proposals for arctic areas could have major effects over wide areas. In the present context, however, the most dramatic change has been the widespread loss of wetlands in temperate areas. In lowland areas this has resulted from increased drainage and intensification of agriculture. In The Netherlands, Beintema *et al.* (1985; references are listed in Chapter 5.3) have shown that there has been a decline in the length of the breeding season of Snipe *Gallinago gallinago*. Drainage, reseeding and fertilizer application have led to an earlier start to grazing and higher stocking rates have increased losses due to trampling. The drainage has also reduced the potential for feeding by Snipe which probe wet, soft ground. In England and Wales, Smith (1983) found that, by 1982, breeding Snipe were found in only 251 10 km x 10 km squares in lowland England and Wales, compared with 724 about 10 years earlier. The distribution of Redshank *Tringa totanus* had also been severely restricted.

In Scotland, a Wader Study Group (WSG) project concerned with the loss of unintensified lowland grassland concluded that the conversion of rough grazing to dry pasture is likely seriously to reduce the national Redshank population and to reduce local numbers of Curlew *Numenius arquata* and Snipe (Galbraith and Furness 1983). In the Western Isles of Scotland, the EC-supported Integrated Development Programme had the potential to disrupt the traditional methods of cultivating the machair-land on which some of the highest densities of breeding waders in Europe depend. A WSG project supported by the Nature Conservancy Council (NCC) is in progress there to assess any effect and identify the habitat needs of these birds.

Perhaps the most surprising development in recent years concerns the peatlands of Ireland, and north and west Britain. In Ireland commercial peat extraction has removed large areas of natural wetland. In Britain, upland peatlands are being planted with exotic species of coniferous trees at a very rapid rate. This is destructive to breeding wader habitat in both the areas planted and an area around (Stroud and Reed 1986). The planting is encouraged by a tax situation which makes planting a beneficial investment even if the trees do not grow.

Particularly in view of this background, it would be valuable to be able to place the breeding populations of waders in any area in context in a similar way to that now possible for wintering waders. As far as WSG is concerned, this need arose recently in reporting its survey of breeding waders in the Uists and more generally in Scotland (Fuller *et al.* 1986, Galbraith, Furness and Fuller 1984). There do now exist a large number of studies on breeding waders. These range from systematic surveys of large tracts of land (e.g. Reed,

Langslow and Symonds 1983) to local reports in which the numbers of breeding waders are almost incidental items.

The problem in using this material is its spread through an immense number of publications (and unpublished sources) in many languages. In late 1982 the Wader Study Group decided that, with its spread of members throughout Europe (as well as elsewhere), it ought to be able to draw together available information and identify gaps where further work is needed. WSG Coordinator, Theunis Piersma, was asked to invite participation from throughout Europe and collate the results. This report presents the results of this work, and consists of two main parts:

1. A summary of wader population sizes and distributions between countries at the current state of knowledge. This is likely to be of most use to conservation and planning as well as further scientific studies. In several cases, far more detailed national information is available and this will be published separately by the countries concerned (e.g. for France, Dubois and Maheo 1986).
2. A bibliography of sources used to establish this information and other documentation related to breeding waders in Europe. This is intended primarily for those who wish to build on the basis presented here, both to indicate to them which publications have already been searched and to allow further details from these to be pursued.

As is emphasized above, this report is not an end-point. Rather, it is the start of the next phase. In particular, problems of language, lack of contacts or insufficient background information have made it so far impossible to cover some countries in southern and eastern Europe and the immense territory of the USSR. We hope that this publication will stimulate and encourage co-operative enterprises for the areas not yet covered. We hope also that publication of these estimates, in some cases very tentative, will lead to improved ones in the future. The bibliography indicate also some surprising gaps in studies on certain European breeding species. Thus there is ample scope for innovative research. Finally, the Wader Study Group hopes that the estimates provided in this report will be of use to those organisations responsible for safeguarding the breeding habitats and the birds themselves.

The immense amount of work in bringing this document together will be apparent to the reader. This have depended on very many people, particularly the national coordinators, acknowledged in the following section. It is appropriate here, however, to express the thanks of the WSG to Theunis Piersma for his great efforts in undertaking this project and bringing it to completion.

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 Senior Ornithologist, Nature Conservancy Council

3. ACKNOWLEDGEMENTS

This compilation of information from 23 different countries, and a multitude of published sources, could not have been accomplished without the co-operation and help of a great many different people. I hope that everyone who has been involved in this great, four-year, project will find now that their expended time and effort has been worthwhile. Here I have the opportunity to express my warmest thanks to all of them. First of all the people who provided me with published and unpublished data on wader population sizes: Arthor Gardarsson, Sven Blomqvist, Ingvar Byrkjedal, Rob Bijlsma, Gerard van Dijk, Philippe Dubois, Jadwiga Gromadzka, Olavi Hilden, Jacob Hoglund, Hermann Hotker, John Atle Kalas, Bernhard Kohler, Vera Hromadkova-Lnenickova, A. Martinez Vilalta, Hans Meltofte, Michel Metais, A. Randik, Georg Rauer, Tim Reed, Rui Rufino, Egon Schmidt, A. Siefke, K. Stastny, Bo Svensson and Herman Voet. Without the help of those who compiled partial or complete bibliographies for their countries, this work would certainly not have been as it is: Sven Blomqvist, Ingvar Byrkjedal, Jadwiga Gromadzka, Olavi Hilden, Hermann Hotker, Bernhard Kohler, Vera Hromadkova-Lnenickova, Hans Meltofte, Laszlo Molnar, Georg Rauer, Rui Rufino, Arnd Stiefel, Brigitte Vadier and Theo Verstrael. I am grateful also to those who helped in many other ways: Luis Alberto, Albert Beintema, Rob Fuller, Hector Galbraith, Alfred

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We gratefully acknowledge the support of the Dutch Ministerie van Landbouw en Visserij, Directie Natuur, Milieu en Faunabeheer, afdeling Soortenbehoud who, through the good offices of Gerard Boere and the Nederlandse Vereniging tot Bescherming van Vogels in Zeist, financed the typing, editorial and postage costs of *Breeding Waders in Europe*, and The Nature Conservancy Council of Great Britain for providing the costs of printing.

My final thanks must go to Nienke Bloksma. She suffered most.

4. METHODS

4.1. POPULATION SIZE ESTIMATES

The population size estimates of breeding waders in the different countries of Europe, were compiled by assembling the relevant published sources and by correspondence with authorities on breeding waders in each country. For about half of the 22 geographical areas, information was already available in published form at the start of this enquiry in 1982. During the ensuing 4 years, published information became available for a few more countries. Information on breeding wader population sizes for the remaining countries is based on estimates provided by personal communications from the local ornithologists/national correspondents. In addition, these correspondents have provided many corrections, many additions and improvements to the published estimates. All such sources are acknowledged in the relevant tables summarising population size estimates.

Figure 1 shows those parts of Europe which are covered in this publication. A recent paper by Meltofte (1985) has reviewed and summarised population estimates of waders breeding in high arctic Greenland and Ellesmere Island (Canada). These are incorporated in this review to set the European populations in a wider context, and since these populations are for the most part Palearctic in their migratory habits. This coverage also is shown in Figure 1. The parts of Europe for which detailed coverage could be achieved is shown in Figure 2. Northern and western Europe is well covered, but in the south and east of Europe coverage is far less complete.

The accuracy of population size estimates

varies greatly between countries. For some countries and species, estimates can be given only as large ranges of numbers. Indeed, for many countries only extrapolations of limited surveys or 'informed guesses' are available. Furthermore, even some of these (Iceland, Hungary, Austria, Czechoslovakia and Portugal) were made only in response to the request for information for this review. To reiterate Gardarsson's (*in litt.*) comments on his estimates for Iceland: "the request brings into focus the fact that we do not have any really good figures for the populations of Icelandic waders" and "I should repeat that these estimates are very close to being just guesswork at present". In contrast, for countries including the Faroe Islands, Denmark, East Germany, Switzerland, The Netherlands, Belgium, Great Britain (but not Ireland, see Reed 1985) and France, the estimates are likely to be much more precise. These estimates are based on extensive reviews of many local breeding wader surveys and/or on nation-wide atlas-work or specially organised censuses. However, it must be emphasised that for each country, not all species have been censused with the same intensity. For example, the woodland-breeding wader, the Woodcock *Scolopax rusticola*, has been accurately surveyed in very few countries, while a colonially-breeding species such as the Avocet *Recurvirostra avosetta* has been counted very accurately everywhere. In Table 1 I have summarized the approximate level of intensity with which each of the geographical areas have been researched. This table also indicates for which areas much more precise information is needed.

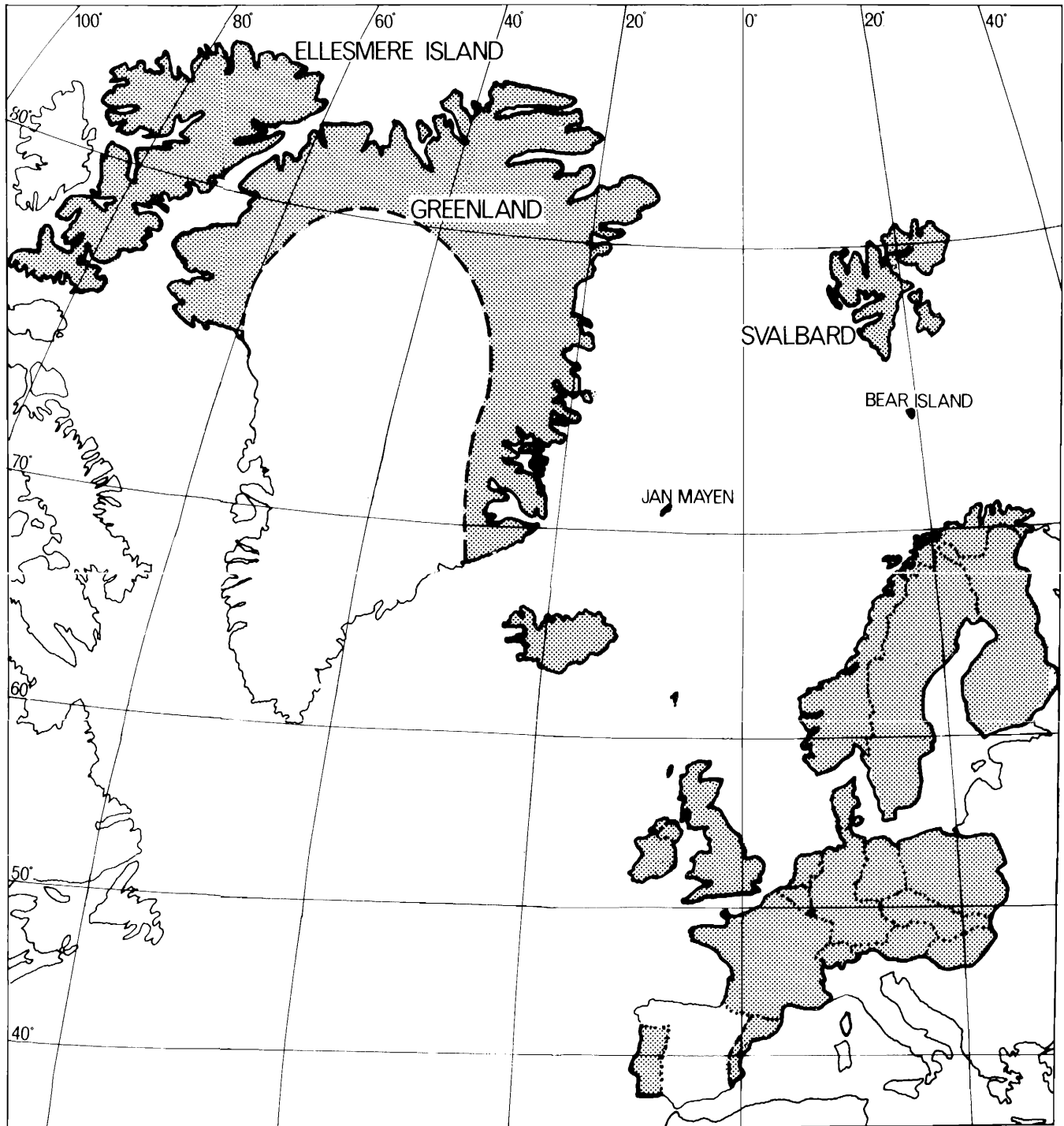


Figure 1. Geographical coverage of *Breeding waders in Europe*. The shaded parts of the map are included in this review.

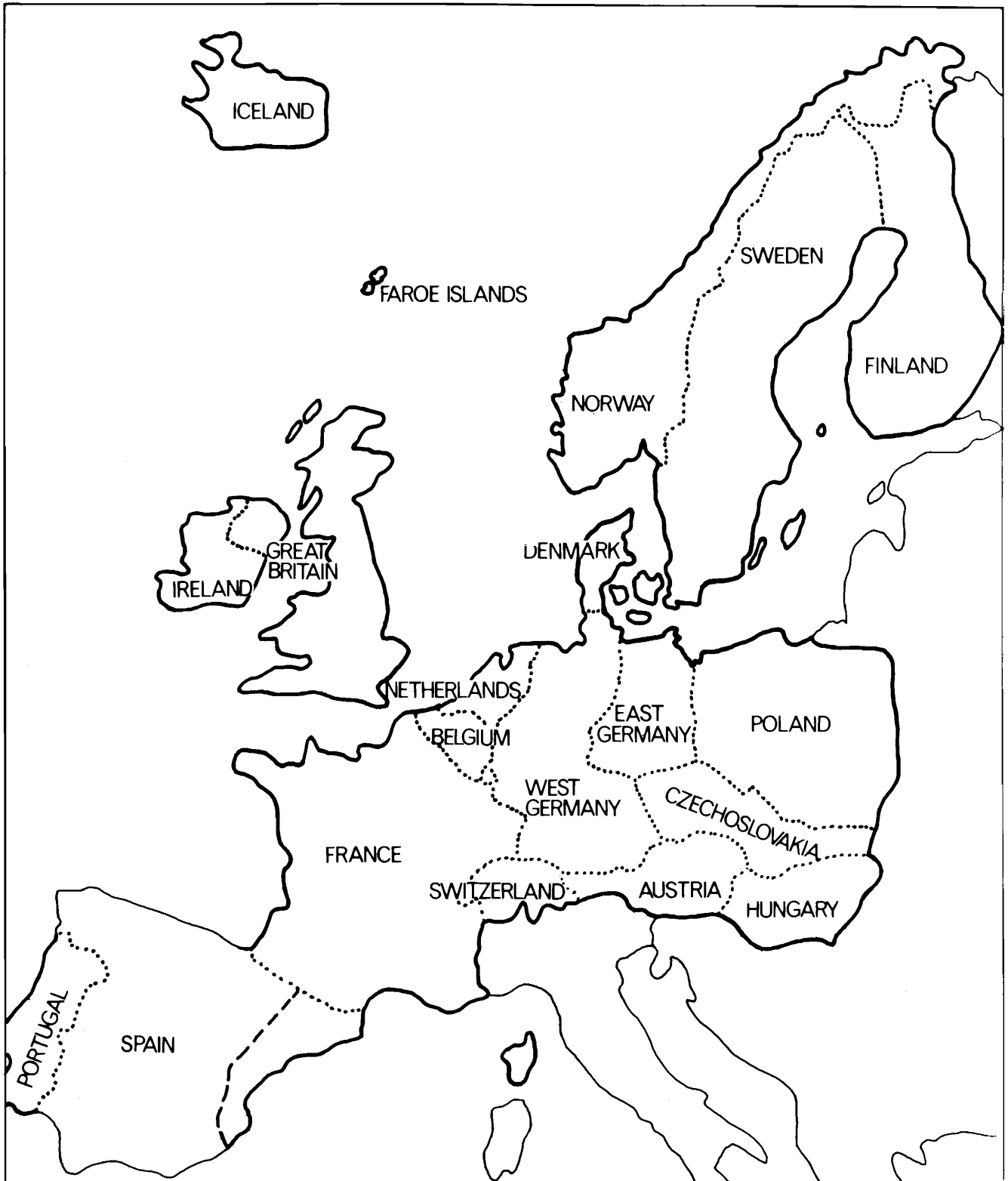
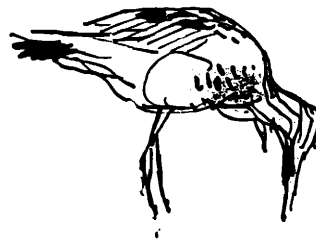
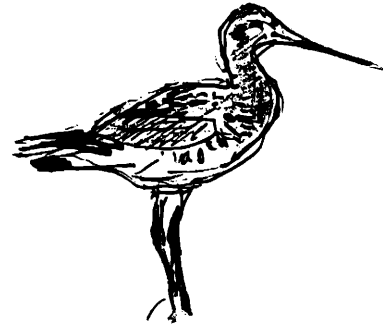


Figure 2. Parts of Europe given detailed coverage in the breeding wader populations and bibliographic review. Only the area within the thick border-lines is covered.

Table 1. The approximate level of intensity with which the different geographical areas covered in this survey have been researched for breeding waders. Intensities are: 1. extrapolation of limited breeding wader surveys; 2. extrapolation of (mostly quantitative) atlas-work; 3. atlas-work plus review of special surveys; and 4. special surveys. The most accurate estimates of population size usually come from intensities 3 and 4.

Geographical area	Research intensity index
high-arctic Greenland and Ellesmere Island	1
Bear Island and Jan Mayen	4
Svalbard	1
Iceland	1
Faroe Islands	4
Norway	1 & 3
Sweden	1 & 4
Finland	2
Denmark	3
Poland	2
Czechoslovakia	2
Hungary	3
Austria	3
Switzerland	3
East Germany	3
West Germany	2
The Netherlands	3
Belgium	3
Great Britain and Ireland	3
France	4
north-east Spain	4
Portugal	2



4.2. BIBLIOGRAPHY

The bibliography is divided into 3 sections: general topics related to the biology of breeding waders; the breeding biology of single species; and surveys of breeding waders in each country. Whilst the bibliographies for each country mainly list references to work published in Europe, in the bibliographies on general topics I have additionally included relevant references to studies in other parts of the world. Studies made outside Europe on species that breed in Europe are also included.

The bibliographies on the different topics, species and countries have been compiled chiefly from references found in standard handbooks (notably Glutz von Blotzheim *et al.* 1975, 1977), and from the reference lists of the most important recent papers on the subject. The completeness of the compilations on survey work in different countries varies. The most important references published after 1950 are listed for each country, but some compilers have included also a great number of 'lesser articles'.

Unless indicated otherwise, each bibliography was assembled by the compiler. The main language of WSG, and this bibliography, is English. However, I have assumed that French and German are also internationally comprehensible and have not translated titles in these languages. Titles in languages other than these three have been translated into

English wherever possible, or, when titles of abstracts in only French or German were available, into one of these two languages. An exception is the listing in The Netherlands section of the many privately published Dutch reports. These titles have not been translated, since they are likely to be of use mostly within The Netherlands. No comprehensive bibliography could be compiled for Spain, since it has been possible to include only the north-eastern part of Spain in the breeding population survey.

Limitations of resources and space have precluded the preparation of full subject, species, geographical and author indices. However, the arrangement of the references by subject, species and geographical area, and the alphabet ordering of (first) author's names within each section, should minimise the need for a separate index. Where individual papers are relevant to several sections of the bibliography, they are listed under each of the relevant sections. Those publications in which the breeding biology of several wader species is discussed appear under the heading of 'General Breeding Biology' and are not then listed separately in each species section. The Bibliography consists of a total of 3374 entries: 326 for the general topics, 887 for the species studies and 2161 for the surveys by country.

5. POPULATION SIZE ESTIMATES

5.1. RESULTS

Table 2 gives the best estimates of breeding wader populations in the different European countries that can be achieved currently. From all the detailed information given in Table 2, Table 3 summarises the approximate total number of pairs of waders of each species breeding in the surveyed area. Some species, such as Little Stint, Terek Sandpiper and Grey Phalarope are very rare breeding birds in Europe and total breeding populations are under 1000 pairs. The high-arctic breeding species Knot and Sanderling breed in Europe only in Svalbard and in extremely low numbers. The breeding population of Collared Pratincoles is also under 1000 pairs in the survey. However large numbers of Collared Pratincoles are known to breed in the parts of Spain not covered here, so total populations are undoubtedly much larger.

The main features of the distribution of each species are described in the remainder of this

section, and the distribution in Europe of each species is shown in Figures 3 to 36. The distribution maps are based on the data in Figure 2, and the size of the symbols is directly proportional to the total number of pairs breeding in the country (midpoint, if a range is given in Table 2). A legend to the scale is given in each distribution map. For the larger countries, the dots are placed according to the general breeding distribution of a particular species in that country (by reference to the distribution maps in Cramp & Simmons 1983). Thus, since Little Stints nest only in the arctic parts of Norway, the symbol is placed in the northernmost part of the country. Symbols are placed centrally where the species breeds throughout a country. Wherever possible, breeding populations of different subspecies are shown by different symbols. Information on geographical variation and recognition of subspecies follows Cramp & Simmons (1983).

Species accounts

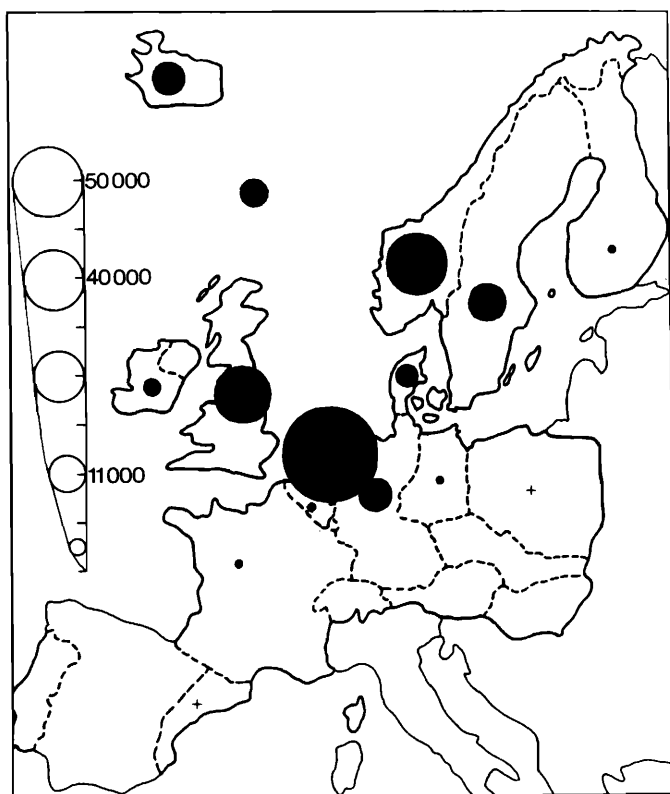


Figure 3. Distribution of Oystercatchers *Haematopus ostralegus* in Europe. In this and the following maps, the areas of the dots are relative to the numbers of breeding pairs in each country. The large dot for The Netherlands represents 90 000 pairs.

Oystercatcher *Haematopus ostralegus* (Figure 3). Oystercatchers breeding in Europe have only slight geographical size variation, although wings are slightly longer in birds breeding in Iceland and the Faroe Islands than elsewhere. About 40% of the total European breeding population of 218 000 pairs breed in The Netherlands, with a further 20% in Great Britain and Ireland, and 18% in Norway. Hence nearly 80% of European Oystercatchers breed in only 4 countries. Elsewhere there are smaller populations in Iceland, Faroe Islands, Sweden, Denmark and West Germany. Breeding populations in south and east Europe are very small.

Table 2. Estimated numbers of pairs of waders breeding in Europe. For areas covered see Figures 1 and 2. Where more than one subspecies breeds in a country, the country total has been allocated to the most abundant population, and the presence of the other subspecies indicated by +.

	high arctic Greenland and Ellesmere Island ¹	Bear Island and Jan Mayen ²	Svalbard ³	Iceland ⁴	Faroe Islands ⁵	Norway ⁷	Sweden ⁹	Finland ¹⁷	Denmark ¹⁹	Poland ²¹	Czechoslovakia ²²	Hungary ²³	Austria ²⁴
Oystercatcher <i>Haematopus ostralegus</i>	-	-	-	10 000	8 667	40 000	10 000 ¹⁰	1500-1800	4 000-6 000	10	-	-	-
Black-winged Stilt <i>Himantopus himantopus</i>	-	-	-	-	-	0-3	750 ¹⁴	-	3 555 ²⁰	-	4	25-30	1
Avocet <i>Recurvirostra avosetta</i>	-	-	-	-	-	-	-	-	-	-	-	200	50-80
Stone Curlew <i>Burhinus oedipnemus</i>	-	-	-	-	-	-	-	-	-	10	15-30	200	1
Collared Pratincole <i>Glareola pratincola</i>	-	-	-	-	-	-	100-150	-	-	-	1 000-1 500	100-250	150
Little Ringed Plover <i>Charadrius dubius</i>	-	-	-	-	-	-	100-150	5000	150-200	1 000-1 500	>1 000	600-800	-
Ringed Plover <i>Charadrius dubius</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
high arctic <i>hiaticula</i>	25 000	-	300-600	-	-	-	-	-	-	-	-	-	-
subarctic <i>hiaticula</i>	-	-	-	30 000-50 000	10	-	-	-	-	-	-	-	-
temperate <i>hiaticula</i>	-	-	-	-	-	-	-	-	1500-2500	350-400	-	-	-
tundra	-	-	-	-	-	12 500	20 000 ¹⁰	4000	-	-	-	-	-
Kentish Plover <i>Charadrius alexandrinus</i>	-	-	-	-	-	-	20 000 ¹⁰	+	-	-	-	-	-
Dotterel <i>Charadrius morinellus</i>	-	-	-	-	-	-	10 ¹¹	+	-	-	-	-	-
Golden Plover <i>Pluvialis apricaria</i>	100	-	0-1	300 000	918	28 000	7 500 ¹⁰	800	50-75	-	-	100	13
Lapwing <i>Vanellus vanellus</i>	-	-	0-5	0-55	10	130 000	50 000 ¹⁰	100 000	5-10	-	-	-	10
Knot <i>Calidris canutus</i>	20 000	-	0-5	-	-	58 000	120 000 ¹⁰	150 000	30 000-40 000	3 000	>2 000	10 000	1 500-2 000
Sanderling <i>Calidris alba</i>	17 000	-	5-15	-	-	200	0-2	0-5 ¹⁸	-	-	-	-	-
Little Stint <i>Calidris minuta</i>	-	-	-	-	-	3 400	20 000 ¹⁰	2 000	-	-	-	-	-
Temminck's Stint <i>Calidris temminckii</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
Purple Sandpiper <i>Calidris maritima</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
" <i>nitens</i> "	>100	100-1000	2000-4000	50 000	20	10 500	2 000 ¹⁰	10	-	-	-	-	-
Dunlin <i>Calidris alpina</i>	5 000	-	0-5	300 000	20	-	-	-	-	-	-	-	-
arctica	+	-	-	-	-	-	-	-	-	-	-	-	-
subarctic <i>schinzii</i>	-	-	-	-	-	-	-	1 000	490 ²⁰	80-100	-	-	-
temperate <i>schinzii</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>alpinus</i>	-	-	-	-	-	35-000	20 000 ¹⁰	+	-	-	-	-	-
Broad-billed Sandpiper <i>Limicola falcinellus</i>	-	-	-	-	-	180	2000-3000 ¹⁵	8 000	-	-	-	-	-
Ruff <i>Phalaropus lagopus</i>	-	-	-	-	-	15 000	50 000 ¹⁰	150 000	652 ²⁰	350-400	-	8-10	-
Jack Snipe <i>Lymnocryptes minimus</i>	-	-	-	-	-	110 ⁸	18 000 ¹⁰	10 000	-	5	-	-	-
Snipe <i>Gallinago gallinago</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>faerensis</i>	-	-	-	300 000	1 133	55 000	15 000 ¹⁰	25 000	2000-4000	13 000-15 000	>1 000	300-350	>85
<i>gallinago</i>	-	-	-	-	-	1 400	1000-2000 ¹⁶	-	1500-2000	?	>1 000	30-40	?
Great Snipe <i>Callinago media</i>	-	-	-	-	-	34 500	75 000 ¹⁰	200 000	-	-	-	-	-
Woodcock <i>Scolopax rusticola</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
Black-tailed Godwit <i>Limosa limosa</i>	-	-	-	-	-	65	350-375 ¹²	20	833 ²⁰	7 000	300-600	1 000	70-80
<i>islandica</i>	-	-	-	10 000-30 000	-	1 300 ⁸	10-15 ¹³	200	-	-	-	-	-
<i>islandica</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
Bar-tailed Godwit <i>Limosa lapponica</i>	-	-	-	-	-	10 000	5 000 ¹⁰	30 000	-	-	-	-	-
Whimbrel <i>Numenius phaeopus</i>	-	-	-	200 000	2 847	5 100	20 000	40 000	250-350	400	125-150	50	50-60
<i>islandicus</i>	-	-	-	-	-	5 000 ⁸	20 000 ¹⁰	20 000	-	-	-	-	-
<i>phaeopus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
Curlew <i>Numenius arquata</i>	-	-	-	-	5	10 000	5 000 ¹⁰	30 000	-	-	-	-	-
Spotted Redshank <i>Tringa erythropus</i>	-	-	-	-	-	5 100	20 000	40 000	4000-6000	1 100-1 400	80-150	400-500	85-100
Redshank <i>Tringa totanus</i>	-	-	-	-	-	5 000 ⁸	20 000 ¹⁰	20 000	40-50	>100	-	-	1
<i>robusta</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>totanus</i>	-	-	-	100 000	10	58 000	20 000 ¹⁰	5 000	4000-6000	1 100-1 400	80-150	400-500	85-100
Greenshank <i>Tringa nebularia</i>	-	-	-	-	-	17 000	50 000 ¹⁰	40 000	-	-	-	-	-
Green Sandpiper <i>Tringa ochropus</i>	-	-	-	-	-	13 000	60 000 ¹⁰	60 000	40-50	>100	-	-	1
Wood Sandpiper <i>Tringa glareola</i>	-	-	-	-	-	27 000	250 000 ¹⁰	300 000	-	-	-	-	-
Common Sandpiper <i>Actitis hypoleucos</i>	-	-	-	<100	-	150 000	300 000 ¹⁰	400 000	-	>100	>1 000	50-100	>95
Terek Sandpiper <i>Xenus cinereus</i>	-	-	-	-	-	-	-	30	-	-	-	-	-
Turnstone <i>Arenaria interpres</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
high arctic <i>interpres</i>	25 000	-	10-40	-	-	8 500	5 000 ¹⁰	5 000	25-30	-	-	-	-
Fennoscandian <i>interpres</i>	>100	-	0-5	50 000-100 000	50	9 500	50 000 ¹⁰	15 000	-	-	-	-	-
Red-necked Phalarope <i>Phalaropus lobatus</i>	>100	-	150-300	<100	-	-	-	-	-	-	-	-	-
Grey Phalarope <i>Phalaropus fulicarius</i>	93 000	100-1000	2500-5000	1 350 000-13 680	727 030	1 360 000	1 798 000	1 330 000	50 000-70 000	27 000-30 000	>7 000	13 300	2 400
Totals													

Table 2 (continued).

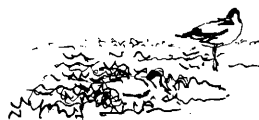
	Switzerland ²⁵	East Germany ²⁶	West Germany ²⁷	The Netherlands ²⁴	Luxembourg ³⁴	Great Britain ³⁶ & Ireland ³⁶	France ³⁷	north-east ³⁹ Spain	Portugal ⁴⁰
Oystercatcher <i>Haematopus ostralegus</i>	-	200-250	10 000 ²⁸	90 000	400-450	33 000	670-735	25	-
Black-winged Stilt <i>Himantopus himantopus</i>	-	0-2	0-5	0-1	0-135	-	350-410	1 000-1 300	500-2 000
Avocet <i>Recurvirostra avosetta</i>	-	150	3200-3500 ²⁸	8 000 ³²	450	-	1 473-1 633	1 000	50-100
Stone Curlew <i>Burhinus oedicnemus</i>	-	0-2	?	?	-	-	4 000-5 000 ³⁸	1 000-3 000	1 000-10 000
Collared Pratincole <i>Glareola pratincola</i>	-	-	-	-	-	-	-	250-1 000	-
Little Ringed Plover <i>Charadrius dubius</i>	20-25	800-1 000	1 900 ²⁸	800-1 300 ³³	350-400	-	2 500-3 000	100-200	1 000-10 000
Ringed Plover <i>Charadrius dubius</i>	-	-	-	-	-	-	-	-	-
high arctic <i>hiaticula</i>	-	-	-	-	-	-	-	-	-
subarctic <i>hiaticula</i>	-	-	-	-	-	-	-	-	-
temperate <i>hiaticula</i>	-	100-150	1 300 ²⁸	450-600 ³³	3	8 600	166-186	-	-
Kentish Plover <i>Charadrius alexandrinus</i>	-	0-2	800-1000 ²⁹	750-1 100 ³³	130	-	1 075-1 160	2 000-3 000	1 500-3 000
Dotterel <i>Charadrius morinellus</i>	-	-	-	0-10 ³³	-	-	>238	1-10	-
Golden Plover <i>Pluvialis aprincaria</i>	-	-	-	0-35	-	600	-	-	-
Lapwing <i>Vanellus vanellus</i>	730	15 000-20 000	50 000-60 000 ²⁸	160 000-175 000	15 000	33 500	17 000-20 000	1-3	-
Knot <i>Calidris canutus</i>	-	-	-	-	-	-	-	-	-
Sanderling <i>Calidris alba</i>	-	-	-	-	-	-	-	-	-
Little Stint <i>Calidris minuta</i>	-	-	-	-	-	-	-	-	-
Temminck's Stint <i>Calidris temminckii</i>	-	-	-	-	-	-	-	-	-
Purple Sandpiper <i>Calidris maritima</i>	-	-	-	-	-	-	-	-	-
"fittoralis"	-	-	-	-	-	-	-	-	-
<i>maritima</i>	-	-	-	-	-	-	-	-	-
Dunlin <i>Calidris alpina</i>	-	-	-	-	-	-	-	-	-
arctica	-	-	-	-	-	-	-	-	-
subarctic <i>achinaii</i>	-	-	-	-	-	-	-	-	-
temperate <i>achinaii</i>	100	-	30 ²⁹	0-5 ³³	0-2	200	-	-	-
<i>alpina</i>	-	-	-	-	-	-	-	-	-
Broad-billed Sandpiper <i>Limicola falcinellus</i>	-	-	-	-	0-25	-	-	-	-
Ruff <i>Philomachus pugnax</i>	-	60-80	500 ²⁹	800-1 100	-	-	-	-	-
Jack Snipe <i>Limnocyptus minimus</i>	-	-	-	-	-	-	-	-	-
Snipe <i>Gallinago gallinago</i>	-	-	-	-	-	-	-	-	-
<i>faeroensis</i>	-	-	-	-	-	-	-	-	-
<i>gallinago</i>	25-30	4 000-6 000	16 000 ²⁹	4 700-4 800	100	10 400	150-250	-	10-50
Great Snipe <i>Gallinago media</i>	100-200	4 000-5 000	?	2 000-3 000 ³³	?	10 000-45 000	?	100-200	?
Woodcock <i>Scotopax rusticola</i>	-	-	-	-	-	-	-	-	-
Black-tailed Godwit <i>Limosa limosa</i>	-	-	-	-	-	-	-	-	-
<i>islandica</i>	-	-	-	-	-	-	-	-	-
<i>limosa</i>	-	300	6 500-7 000 ²⁹	85000-105 000	650-700	-	-	-	-
Bar-tailed Godwit <i>Limosa lapponica</i>	-	-	-	-	-	-	-	-	-
Whimbrel <i>Numenius phaeopus</i>	-	-	-	-	-	-	-	-	-
"islandicus"	-	-	-	-	-	-	-	-	-
<i>phaeopus</i>	15	350-500	4 000 ³⁰	5 000-5 400	500	33 000-38 000	12 000	1 150-1 280	-
Spotted Redshank <i>Tringa erythropus</i>	-	-	-	-	-	-	-	-	-
Redshank <i>Tringa totanus</i>	-	-	-	-	-	-	-	-	-
<i>robusta</i>	-	500-600	13 500 ²⁹	28 000-30 000	200	30 600-33 600	3 000	420-495	10-50
Greenshank <i>Tringa nebularia</i>	-	<30	528	-	-	1 545	5	-	-
Green Sandpiper <i>Tringa ochropus</i>	-	-	-	-	-	-	-	-	-
Wood Sandpiper <i>Tringa glareola</i>	-	-	-	-	-	-	-	-	-
Common Sandpiper <i>Actitis hypoleucos</i>	100-130	100-200	125-250 ²⁹	5-10 ³³	?	17 100-20 100	4 900	500-650	1 000-10 000
Terek Sandpiper <i>Xenus cinereus</i>	-	-	-	-	-	-	-	-	-
Turnstone <i>Arenaria interpres</i>	-	-	-	-	-	-	-	-	-
high arctic <i>interpres</i>	-	-	-	-	-	-	-	-	-
Fennoscandian <i>interpres</i>	-	-	-	-	-	-	-	-	-
Red-necked Phalarope <i>Phalaropus lobatus</i>	-	-	-	-	-	-	-	-	-
Grey Phalarope <i>Phalaropus fulicarius</i>	-	-	-	-	-	-	-	-	-
Totals	1 060	25 000-35 000	100 000-120 000	386 000-425 000	18 000	450 000-506 000	32 000-36 000	5 500-11 000	5 300-36 200

Superscript numbers give the source(s) of the estimates, either as a reference to published estimates, or the date of receipt of estimates in unpublished communications for this survey.

1. Heltofte (1985);
2. Jonsson (1983);
3. Van Franeker Campmuisen (1984);
4. Kallas and Byrkjedal (1981);
5. A. Gardarson in litt. (Jan 1985);
6. Hansen (1983);
7. Bengtson and Bloch (1983), Bloch (1981);
8. Kallas and Byrkjedal (1981);
9. Mjelstad and Sætersdal (1986);
10. Compiled by S. Blomqvist in litt. (July 1984);
11. Ulfstrand and Hogstedt (1976);
12. Tholin (1982);
13. Wahlstedt (1984);
14. Ahlen (1977);
15. B. Svensson pers. comm. (May 1986);
16. J. Høglund pers. comm. (May 1986);
17. Compiled by O. Hilden in litt. (March 1986);
18. Hilden and Hyttia (1981);
19. Bybbro (1981);
20. Hansen (1985);
21. Gromadzka, Stawarczyk and Tomialojc (1985);
22. L. Lenickova, K. Stastny and A. Randik in litt. (June 1986);
23. E. Schmidt in litt. (Feb 1986);
24. B. Kohler and G. Rauer in litt. (Feb 1986);
25. Schifferli, Geroudet and Winkler (1980);
26. A. Stiefke in litt. (Feb 1984);
27. Compiled by H. Hocker in litt. (Nov 1982);
28. Glutz von Blotzheim et al. (1975, 1977);
29. Bauer and Thielcke (1982);
30. Holzinger and Schmid (1982);
31. Compiled by G. van Dijk in litt. (June 1986);
32. Ruitenbeek (1985);
33. Teixeira (1979);
34. compiled by H. Voet in litt. (May 1984);
35. Voet et al. (1982);
36. Reed (1985);
37. compiled by P.J. Dubois in litt. (Oct 1985);
38. M. Metals pers. comm. (May 1986);
39. Martinez Vilalta (1985);
40. R. Rufino in litt. (Nov 1985).

Table 3. Estimated total numbers of pairs of breeding waders in Europe, and north and east Greenland and Ellesmere Island, derived from Table 2. Ranges of total numbers are given for each subspecies; the mid-points of ranges in numbers are given for each species.

	range of total numbers	midpoint of range	
		Greenland and Ellesmere Island	Europe
Oystercatcher	211 000-224 000	-	218 000
Black-winged Stilt	1 900- 4 700	-	3 300
Avocet	19 000- 19 700	-	19 300
Stone Curlew	6 500- 20 500	-	13 500
Collared Pratincole	550- 1 350	-	950
Little Ringed Plover	16 900- 28 000	-	22 500
Ringed Plover		25 000	90 000
high arctic <i>hiaticula</i>	25 000- 26 000		
subarctic <i>hiaticula</i>	30 000- 50 000		
temperate <i>hiaticula</i>	12 500- 13 800		
<i>tundrae</i>	36 500- 36 500		
Kentish Plover	6 400- 9 600	-	8 000
Dotterel	36 400- 36 500	-	36 500
Golden Plover	-	100	609 000
Lapwing	847 000-891 000	-	869 000
Knot	-	20 000	-
Sanderling	-	17 000	-
Little Stint	200- 210	-	205
Temminck's Stint	-	-	25 400
Purple Sandpiper		>100	66 100
" <i>littoralis</i> "	52 000- 56 000		
<i>maritima</i>	12 500- 12 500		
Dunlin		5 000	366 000
<i>arctica</i>	5 000- 5 000		
subarctic <i>schinzii</i>	300 000-300 000		
temperate <i>schinzii</i>	11 100- 11 100		
<i>alpina</i>	55 000- 55 000		
Broad-billed Sandpiper	10 200- 11 200	-	10 700
Ruff	-	-	247 000
Jack Snipe	-	-	28 100
Snipe		-	841 000
<i>faeroeensis</i>	301 000-301 000		
<i>gallinago</i>	530 000-539 000		
Great Snipe	2 900- 4 000	-	3 500
Woodcock	328 000-366 000	-	347 000
Black-tailed Godwit		-	133 000
<i>islandica</i>	10 000- 30 000		
<i>limosa</i>	102 000-123 000		
Bar-tailed Godwit	-	-	1 500
Whimbrel		-	248 000
" <i>islandicus</i> "	203 000-203 000		
<i>phaeopus</i>	45 000- 45 000		
Curlew	122 000-128 000	-	125 000
Spotted Redshank	-	-	45 000
Redshank		-	268 000
<i>robusta</i>	100 000-100 000		
<i>totanus</i>	164 000-172 000		
Greenshank	-	-	109 000
Green Sandpiper	-	-	133 000
Wood Sandpiper	-	-	577 000
Common Sandpiper	-	-	882 000
Terek Sandpiper	-	-	30
Turnstone		25 000	18 500
high arctic <i>interpres</i>	25 000- 25 000		
Fennoscandian <i>interpres</i>	18 500- 18 500		
Red-necked Phalarope	125 000-175 000	>100	150 000
Grey Phalarope	350- 500	>100	330
TOTAL		c.93 000	c.6 500 000



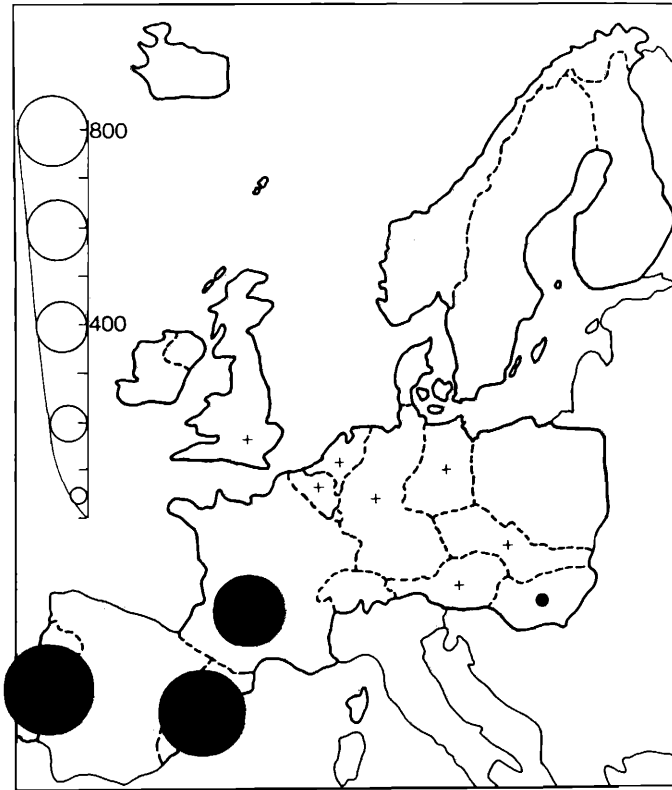


Figure 4. Distribution of Black-winged Stilts *Himantopus himantopus* in Europe.

Black-winged Stilt *Himantopus himantopus* (Figure 4). Only the nominate subspecies *Himantopus* breeds in Europe, chiefly around the Mediterranean and Black Sea. Thus this survey covers only a small part of the total European breeding population. Large populations breed in Portugal, France and north-east Spain, but there are probably thousands more breeding pairs outside the survey limits in Spain, Italy and Greece (see Dubois 1986).

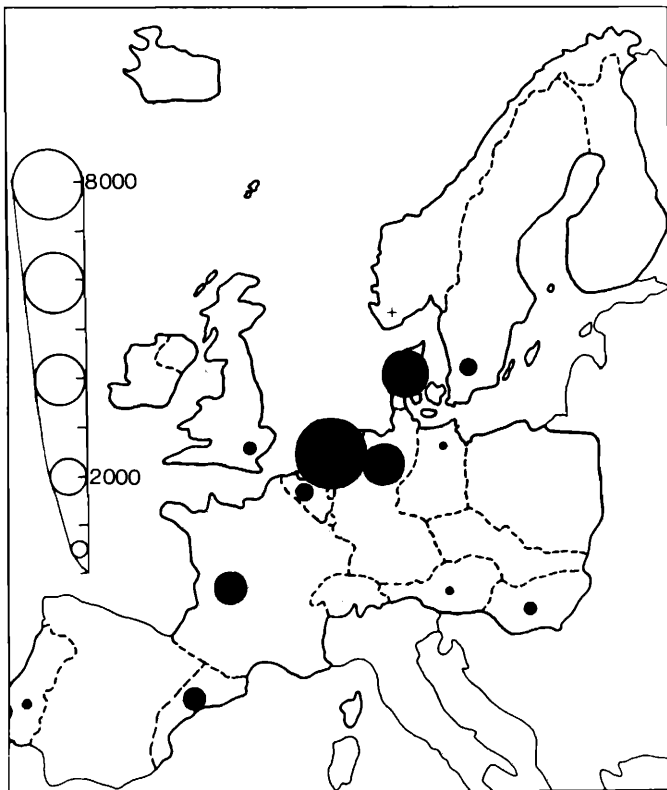
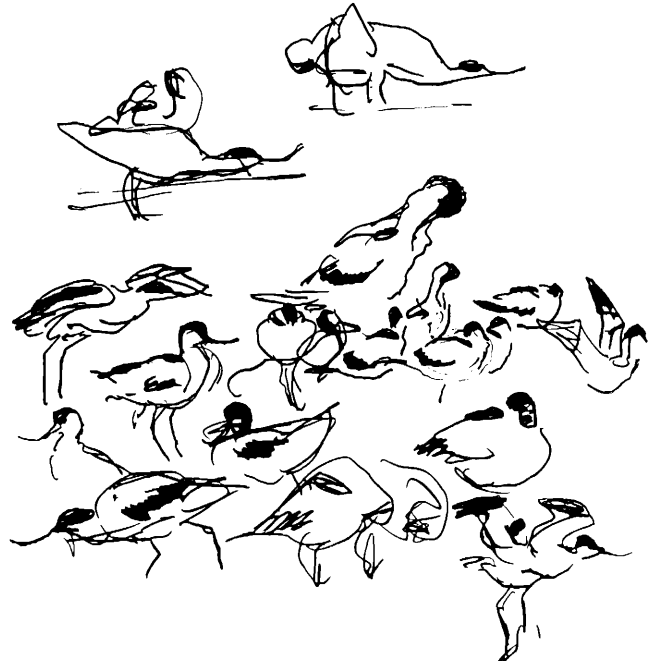


Figure 5. Distribution of Avocets *Recurvirostra avosetta* in Europe.

Avocet *Recurvirostra avosetta* (Figure 5). Avocets are widespread over much of Eurasia, and show no size variation in Europe. Most (75%) of the European population of 20 000 pairs breed along the Wadden Sea coasts of The Netherlands, West Germany and Denmark, with smaller populations scattered over the remainder of southern and western Europe.



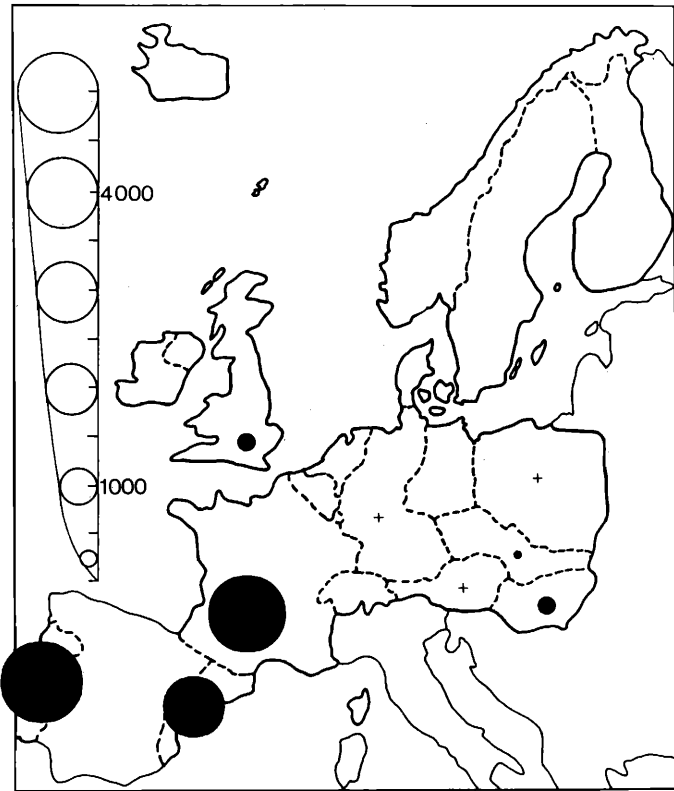


Figure 6. Distribution of Stone Curlews *Burhinus oedicnemus* in Europe.

Stone Curlew *Burhinus oedicnemus* (Figure 6). This species shows no geographical variation within Europe. Most Stone Curlews in Europe certainly breed in the south (France, Spain and Portugal), but breeding densities are poorly documented. There are known to be large breeding populations in Spain just outside the surveyed area.

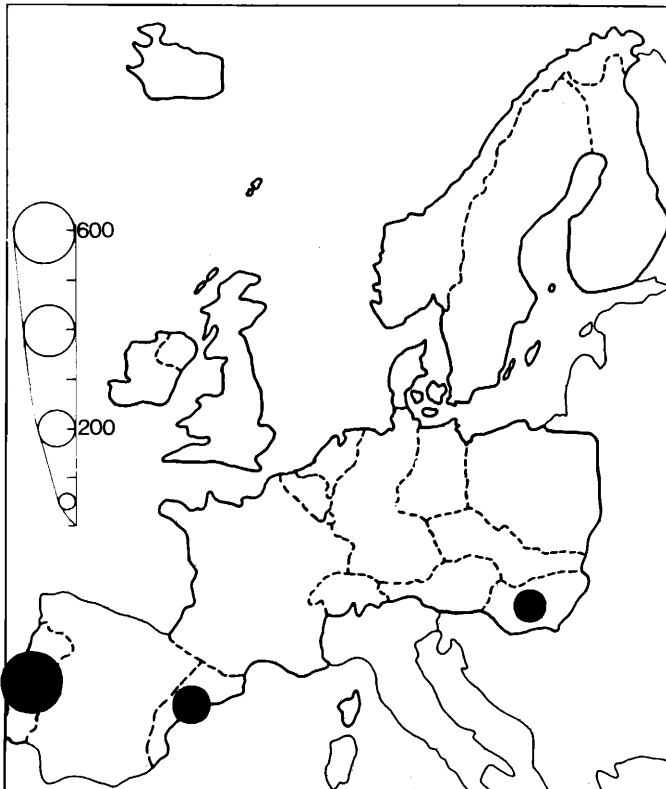


Figure 7. Distribution of Collared Pratincoles *Glareola pratincola* in Europe.

Collared Pratincole *Glareola pratincola* (Figure 7). Only one subspecies of Collared Pratincole (the nominate *pratincola*) lives in Europe. A large part of the European population probably breeds in the parts of Spain outside this survey. The 1000 pairs that were reported are all in the Mediterranean countries and Hungary. Also in Hungary, 1-3 pairs of a related species, the Black-winged Pratincole *Glareola nordmanni* breed in some years, alongside the 100-150 breeding pairs of Collared Pratincoles (E. Schmidt *in litt.*).

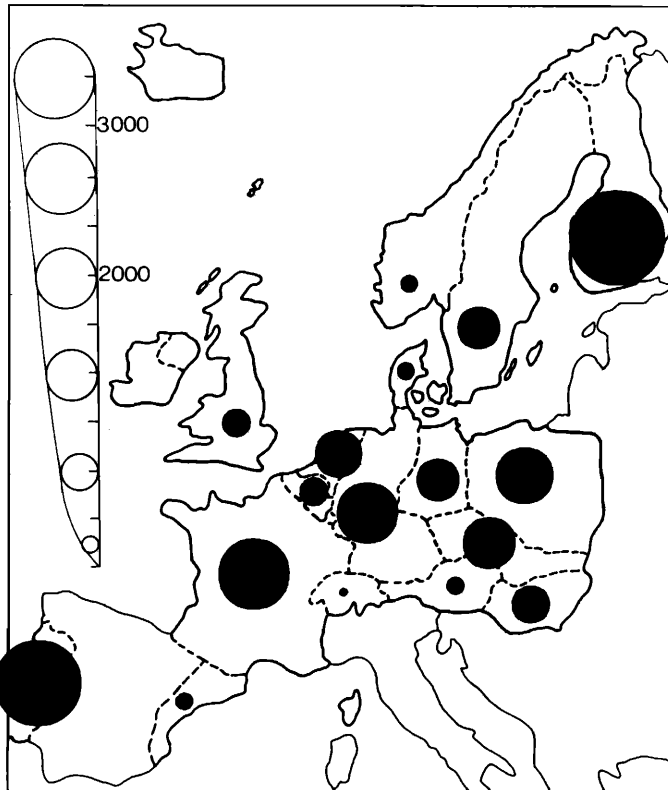


Figure 8. Distribution of Little Ringed Plovers *Charadrius dubius* in Europe. The large dot in Finland represents 5000 pairs.

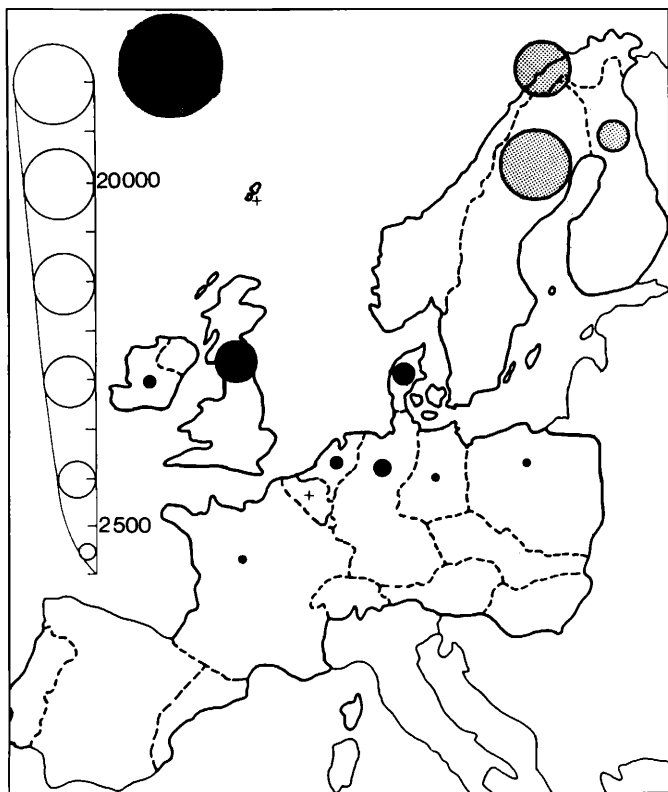


Figure 9. Distribution of Ringed Plovers *Charadrius hiaticula* in Europe. Black dots show the temperate population of the subspecies *hiaticula*, the heavily shaded dot is the subarctic population of *hiaticula* (40 000 pairs), and the lightly shaded dots are the subspecies *tundrae*.

Little Ringed Plover *Charadrius dubius* (Figure 8). Only one subspecies (*curonicus*) breeds in Europe, where Little Ringed Plovers are widespread over inland areas, but not in northern Scandinavia or Iceland. With a total European population of 22 500 pairs, large breeding populations are found in most other European countries, the largest being in Finland and Portugal.



Ringed Plover *Charadrius hiaticula* (Figure 9). Two subspecies of Ringed Plover breed in Europe: *hiaticula* from the Baltic area and western Europe to Iceland, Svalbard and Greenland/Ellesmere Island, and *tundrae* breeding in the arctic areas of Fennoscandia and the USSR. Most Ringed Plovers breeding in Scandinavia (36 500 pairs) belong to the *tundrae* subspecies. There is a large subarctic population (50 000 pairs) of *hiaticula* breeding in Iceland, with a further arctic population of 25 000 pairs on Greenland and Ellesmere Island. Temperate breeding populations of *hiaticula* are small, with the stronghold in Great Britain (8600 pairs) - populations elsewhere in Europe (chiefly Denmark, The Netherlands and West Germany) total only about 4500 pairs.

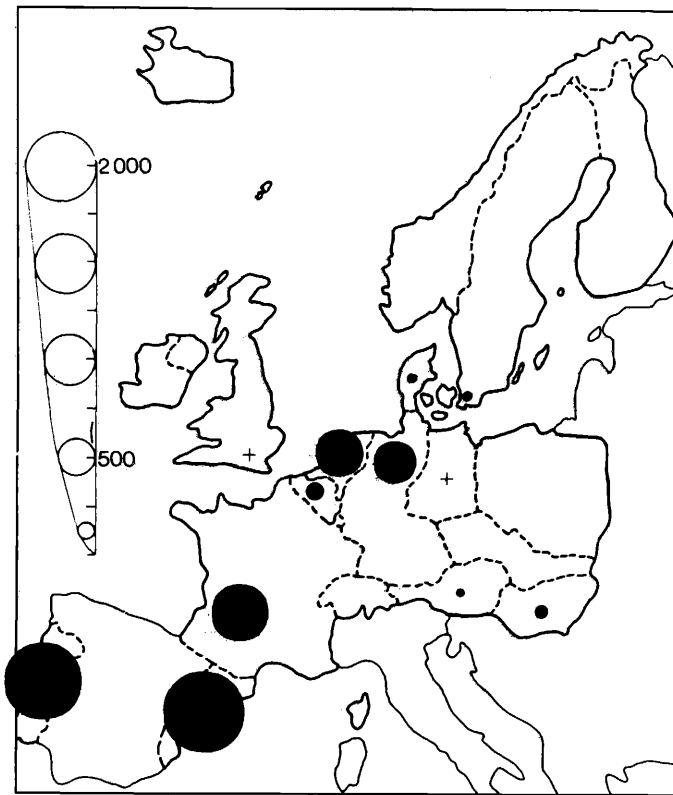


Figure 10. Distribution of Kentish Plovers *Charadrius alexandrinus* in Europe.

Kentish Plover *Charadrius alexandrinus* (Figure 10). Only one subspecies of Kentish Plover breeds in Europe, mainly around the Mediterranean and Black Seas. Though the largest breeding populations are found in France (c. 1100 pairs), in Portugal (1500-3000 pairs) and in Spain (2000-3000 pairs just in the part covered by this survey), good numbers breed also along the coasts of North Sea and Wadden Sea coasts in The Netherlands and West Germany.

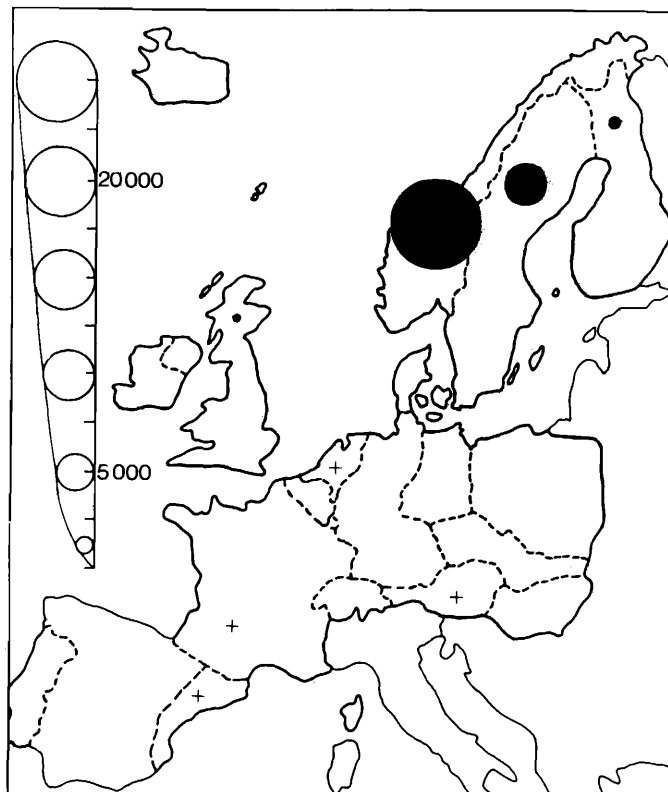
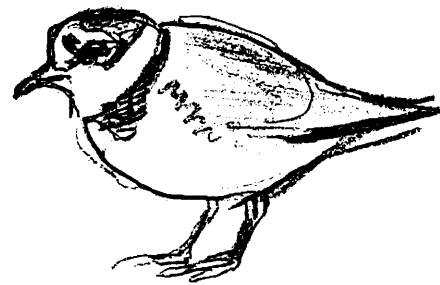


Figure 11. Distribution of Dotterels *Charadrius morinellus* in Europe. The large dot in Norway represents 28 000 pairs.

Dotterel *Charadrius morinellus* (Figure 11). This is a monotypic species. Dotterels have their stronghold in the mountains of Fennoscandia. Norway holds over 75% of the total European population of 36 500 pairs. A relatively isolated population occurs in Scotland.

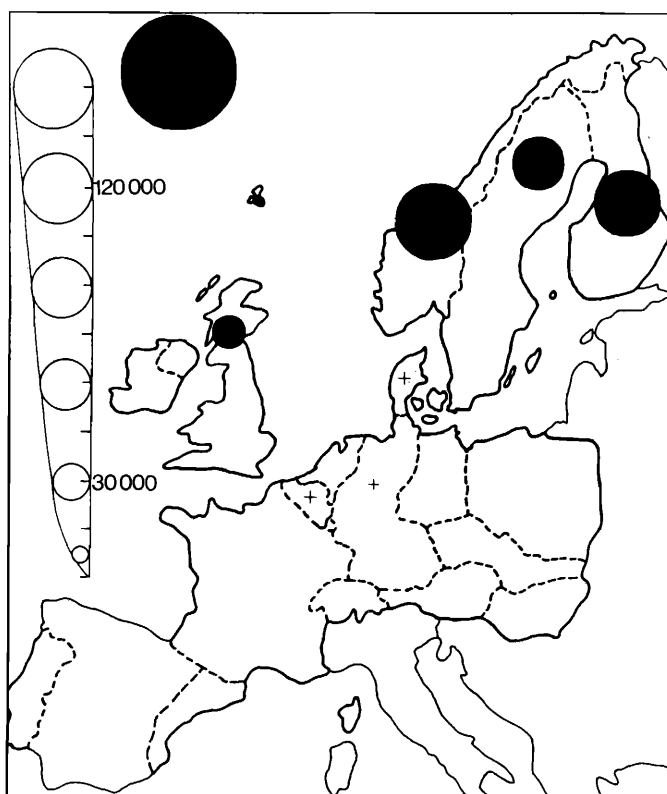


Figure 12. Distribution of Golden Plovers *Pluvialis apricaria* in Europe. The large dot in Iceland represents 300 000 pairs.

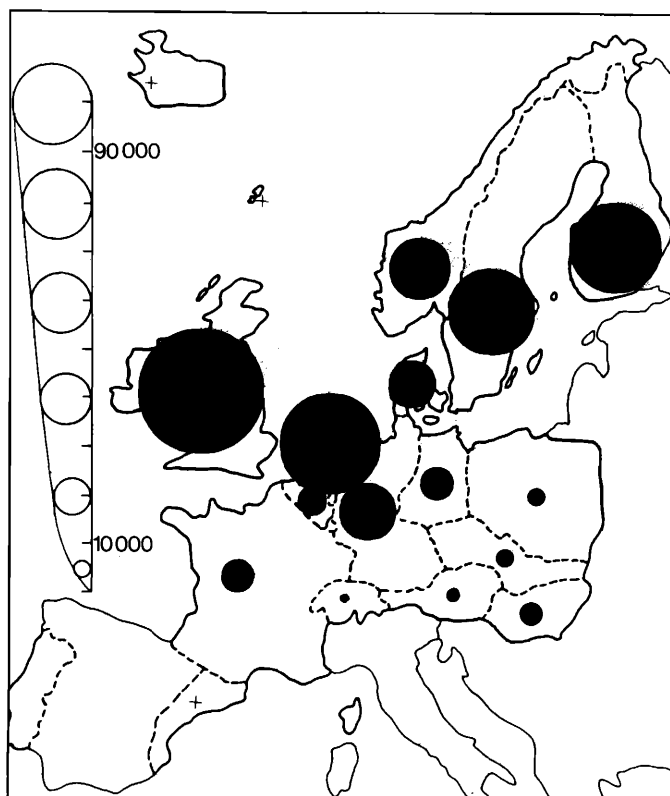
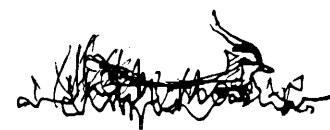


Figure 13. Distribution of Lapwings *Vanellus vanellus* in Europe. The large dot in Great Britain and Ireland represents 215 000 pairs.

Golden Plover *Pluvialis apricaria* (Figure 12). A monotypic species with a northern breeding distribution. The largest breeding populations of Golden Plovers are in Iceland and in Fennoscandia. The small breeding populations in countries bordering the North Sea (Denmark, West Germany) have almost disappeared during the last century, with only Britain retaining important populations.

Lapwing *Vanellus vanellus* (Figure 13). Lapwings are a monotypic species. They are the most numerous European breeding wader and breed in large numbers over much of northern Europe. The largest breeding populations are found in the British Isles (215 000 pairs), in The Netherlands (160 000-175 000 pairs) and in Finland (150 000 pairs).



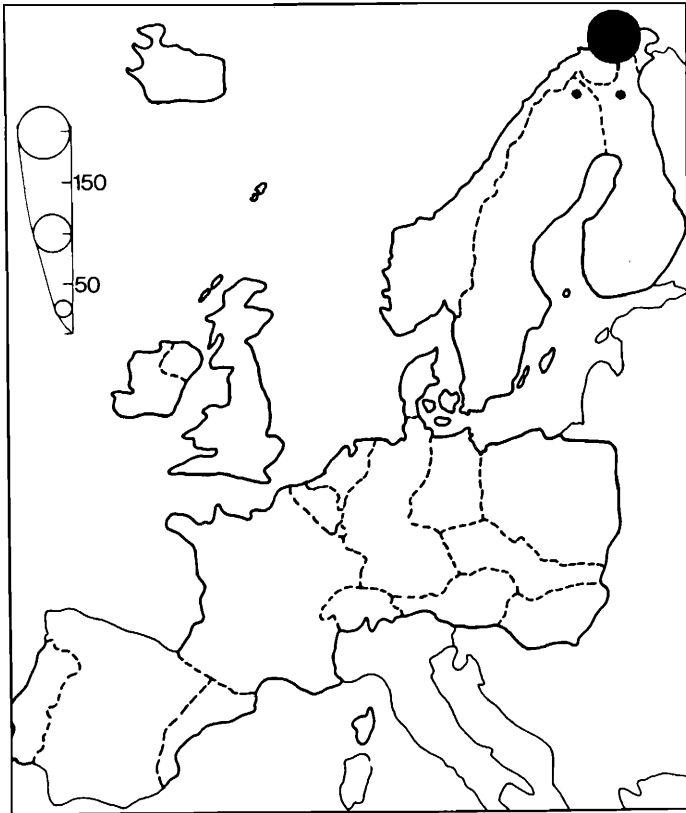


Figure 14. Distribution of Little Stints *Calidris minuta* in Europe.

Knot *Calidris canutus* (no map). Knots breed only on the high arctic tundra. The subspecies *islandica* breeds in Greenland and on Ellesmere Island, and there is a very small population (0-5 pairs) of unknown affinities on Svalbard.

Sanderling *Calidris alba* (no map). Sanderlings are a monotypic wader species of the high arctic, with an almost circumpolar breeding distribution. There is a very small population (5-15 pairs) on Svalbard and about 17 000 pairs are estimated to breed in Greenland and on Ellesmere Island.

Little Stint *Calidris minuta* (Figure 14). Little Stints breed chiefly on the tundra of the USSR. A small population (c. 200 pairs) breeds just within the surveyed area, in northernmost Fennoscandia, especially Norway.

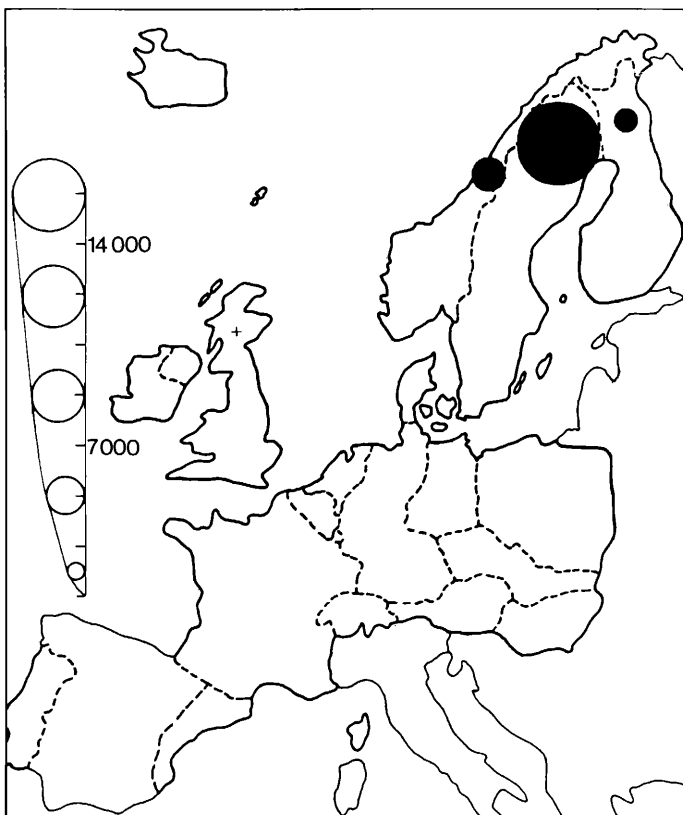


Figure 15. Distribution of Temminck's Stints *Calidris temminckii* in Europe.

Temminck's Stint *Calidris temminckii* (Figure 15). This is a monotypic species of subarctic areas. Its stronghold in Europe is northern Sweden, where almost 80% of the 25 400 European pairs breed, with much smaller populations in Norway and Finland.

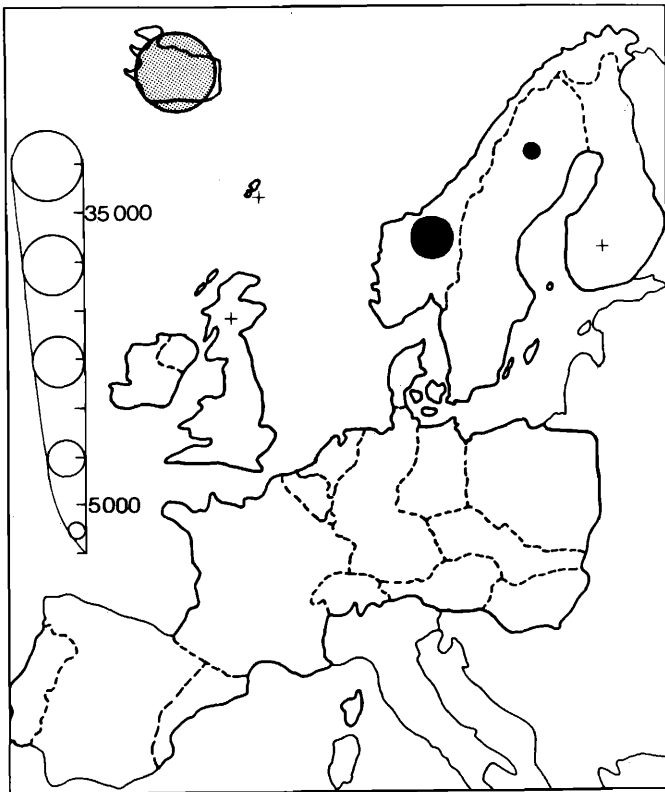


Figure 16. Distribution of Purple Sandpipers *Calidris maritima* in Europe. Black dots show the "race" of mainland Europe, the shaded dot indicates "littoralis" breeding on Iceland (50 000 pairs) and in the Greenland arctic (see text).

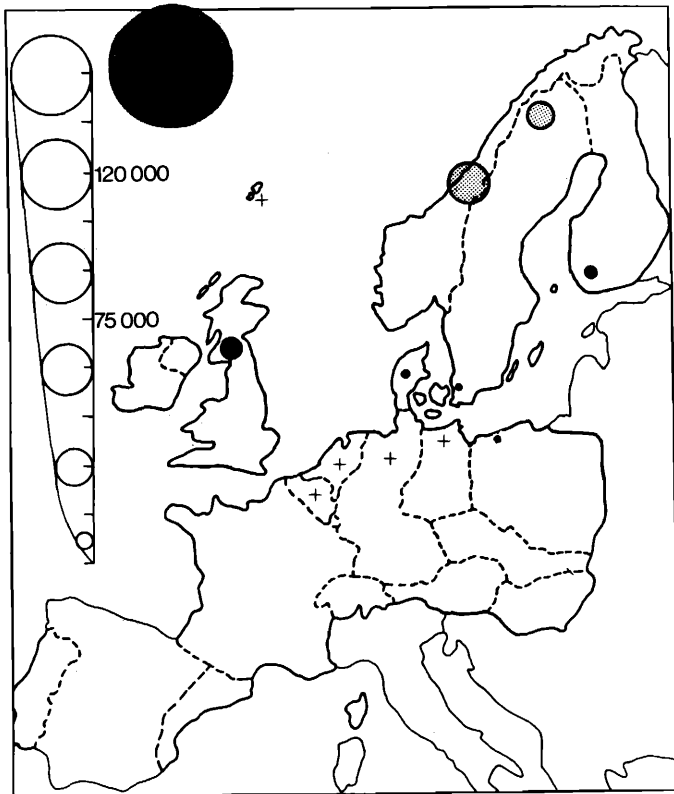


Figure 17. Distribution of Dunlins *Calidris alpina* in Europe. Black dots are the temperate breeding population of the subspecies *schinzii*, the heavily shaded dot is the subarctic population of *schinzii* (300 000 pairs), and the lightly shaded dots are the subspecies *alpina*. The black dot in Finland incorporates a considerable number of *alpina* pairs from northern Finland.

Purple Sandpiper *Calidris maritima* (Figure 16). Although not usually recognized taxonomically, Purple Sandpipers from sub-arctic breeding areas in Iceland and Greenland are larger and may form a separate subspecies ("*littoralis*") from the birds breeding in Norway and Sweden. Iceland, with 50 000 pairs, harbours the largest breeding population of Europe (80%). Populations of the "nominate" race are smaller, with most (10 500 pairs) in Norway.

Dunlin *Calidris alpina* (Figure 17). Three subspecies of Dunlins breed within the surveyed area: *arctica* in northeast Greenland, *schinzii* in Iceland, Britain and around the Baltic Sea, and the nominate subspecies *alpina* in northern Fennoscandia. The total breeding population of *arctica* is no more than 5000 pairs. The subarctic population on Iceland of the *schinzii* subspecies is much more abundant, with about 300 000 pairs. However, the temperate breeding populations of *schinzii* are now very much smaller and have their last stronghold in Great Britain (9350 pairs), notably on the Western Isles and northernmost mainland of Scotland. *schinzii* Dunlins have almost disappeared from the countries around the Baltic Sea and southern North Sea. Only a small proportion of the *alpina* subspecies breeds in Europe: about 50 000 pairs in (sub-)arctic Fennoscandia.

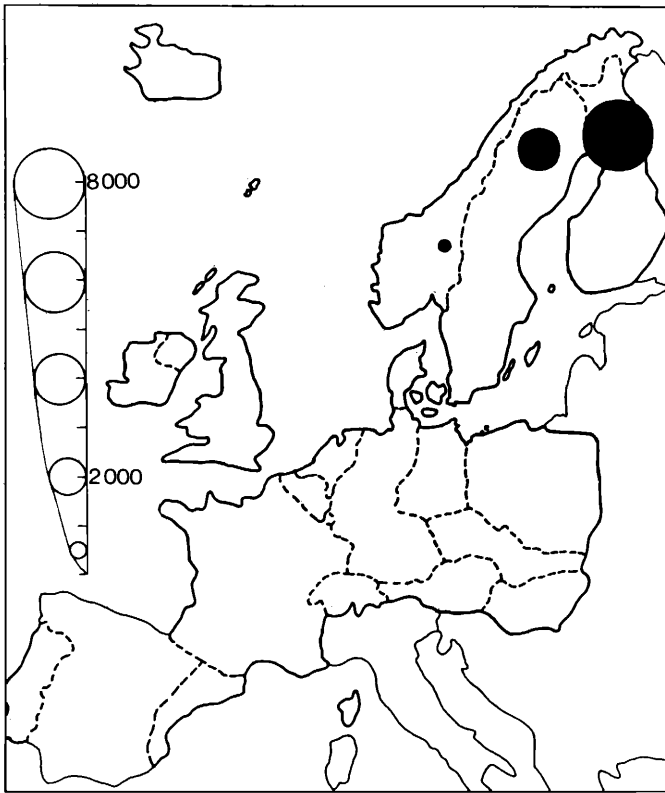


Figure 18. Distribution of Broad-billed Sandpipers *Limicola falcinellus* in Europe.

Broad-billed Sandpiper *Limicola falcinellus* (Figure 18). One subspecies (nominate *falcinellus*) of Broad-billed Sandpipers occurs in Europe. Almost all (98%) of the European breeding population is found in the northern part of Sweden and Finland, with a very small population in Norway.

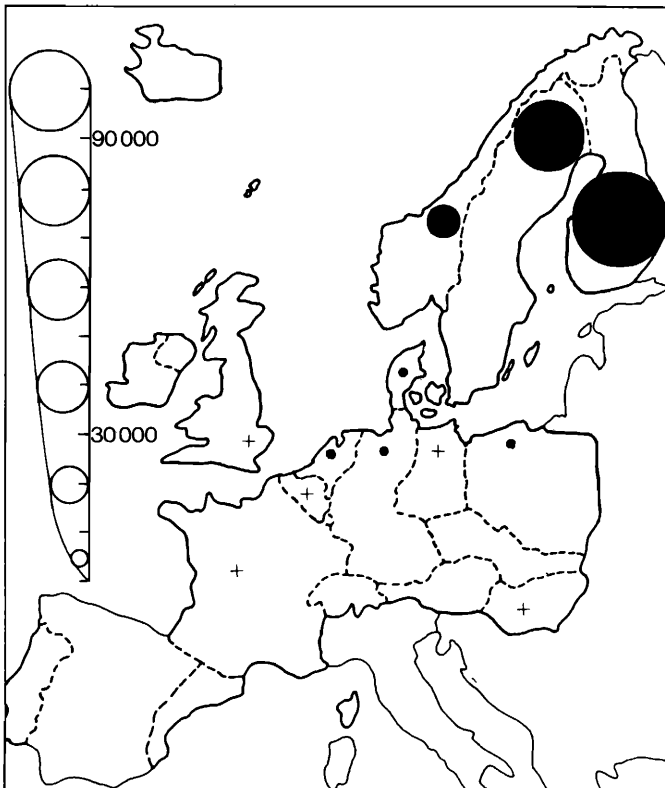
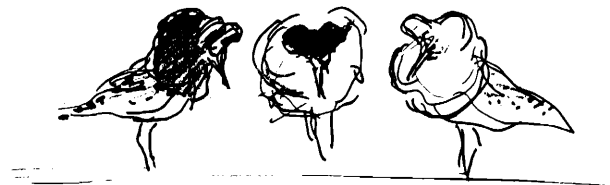


Figure 19. Distribution of Ruffs *Philomachus pugnax* in Europe.

Ruff *Philomachus pugnax* (Figure 19). This is a very widespread, but monotypic, species. The majority (93%) of nearly 250 000 Ruffs breeding in Europe are found in northern Sweden and in Finland. During the last few decades, Ruffs have almost disappeared from the countries around the North Sea; largely due to agricultural improvements to their breeding grounds.



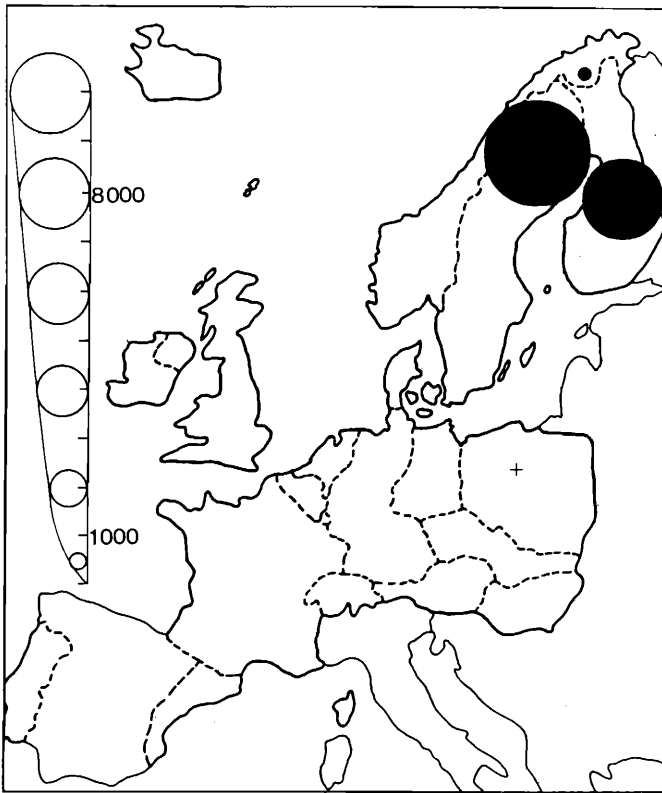


Figure 20. Distribution of Jack Snipe *Lymnocyptes minimus* in Europe. The large dot in Sweden represents 18 000 pairs.

Jack Snipe *Lymnocyptes minimus* (Figure 20). The Jack Snipe is a rather scarce, monotypic species. The European population of about 30 000 pairs breeds in northernmost Fennoscandia, mostly in Sweden and Finland.

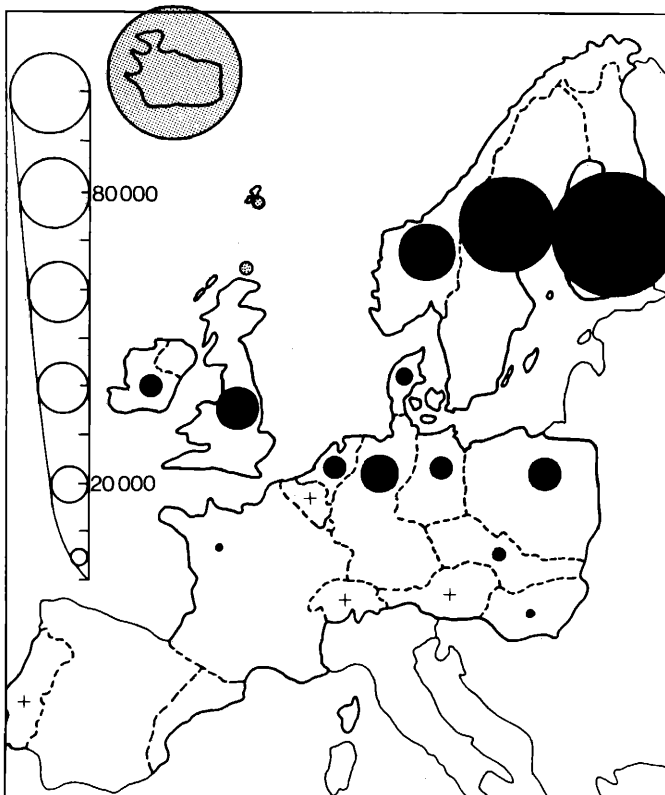


Figure 21. Distribution of Snipe *Gallinago gallinago* in Europe. Shaded dots show the subspecies *faeroeensis* (300 000 pairs in Iceland), and black dots show the subspecies *gallinago*.

Snipe *Gallinago gallinago* (Figure 21). Snipe in the western populations (Iceland, Faroe, Orkney and Shetland) are recognised as a separate subspecies (*faeroeensis*) from those in the rest of Europe (*gallinago*). The Snipe is a very numerous breeding wader in northern Europe. Most (300 000 pairs) of the large *faeroeensis* population breeds on Iceland. Most (c. 90%) of the over half a million pairs of *gallinago* breeds in Fennoscandia; especially, Finland and Sweden. Very few Snipe breed in southern Europe.

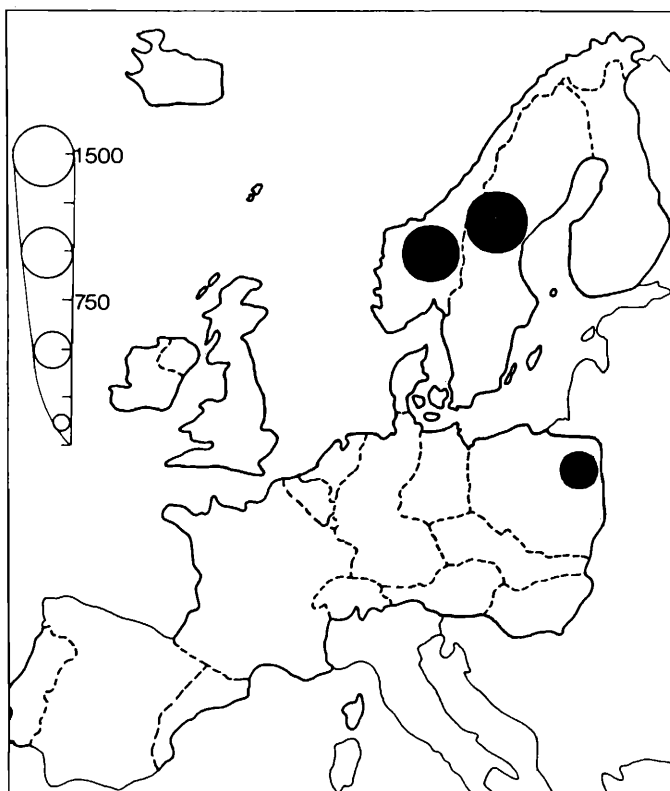


Figure 22. Distribution of Great Snipe *Gallinago media* in Europe.

Great Snipe *Gallinago media* (Figure 22). With 3500 pairs, the monotypic Great Snipe is a rare European wader species, although it breeds through much of Russia. In Europe, Great Snipe breed only in Norway, Sweden and Poland.

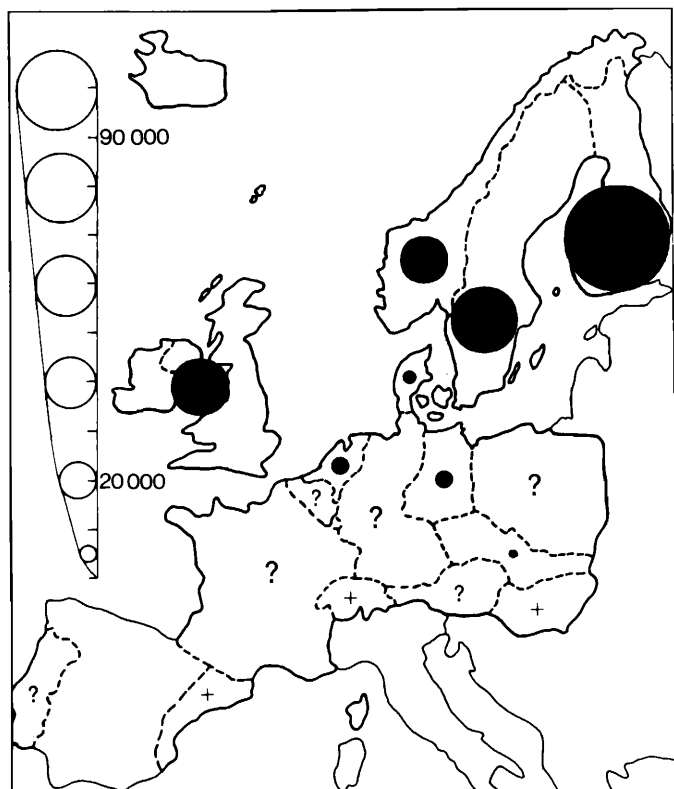


Figure 23. Distribution of Woodcock *Scolopax rusticola* in Europe.

Woodcock *Scolopax rusticola* (Figure 23). The number of breeding pairs of the monotypic Woodcock in Europe is very incompletely known, despite the considerable attention the species receives from hunters and hunting organizations. Therefore, the figure for the total population (347 000 pairs) must be considered as a minimum. The largest known numbers of breeding pairs are found in Finland (200 000 pairs), with large populations also in Sweden, Norway and Great Britain and Ireland.



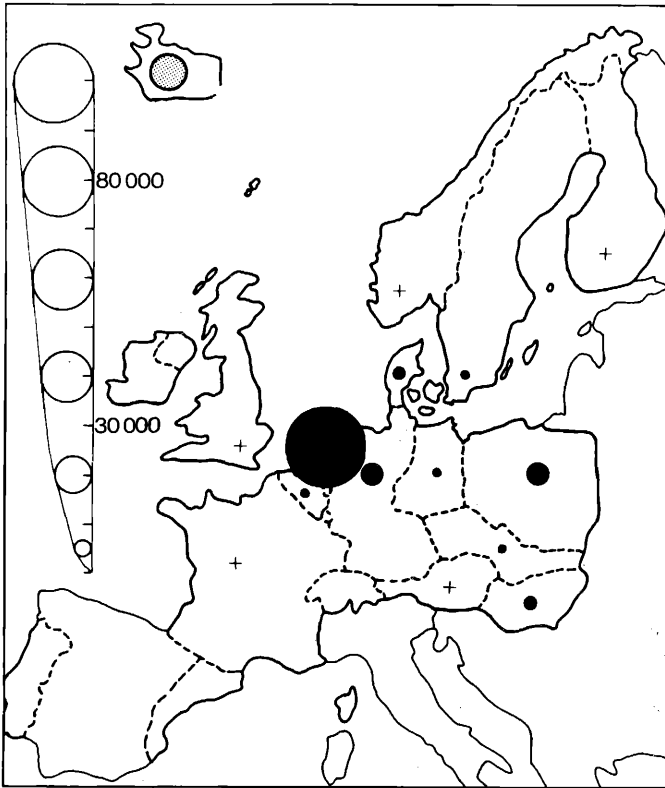


Figure 24. Distribution of Black-tailed Godwits *Limosa limosa* in Europe. Black dots show the subspecies *limosa* and the shaded dot shows the subspecies *islandica*.

Black-tailed Godwit *Limosa limosa* (Figure 24). Two subspecies of Black-tailed Godwits breed in Europe. The rather uncommon subspecies *islandica* breeds almost entirely in Iceland with 10 000 - 30 000 pairs. The nominate subspecies *limosa* has its major stronghold in The Netherlands, where almost 85% of the European pairs are now found, but even this population may well be decreasing now. Elsewhere in Europe populations are very small.

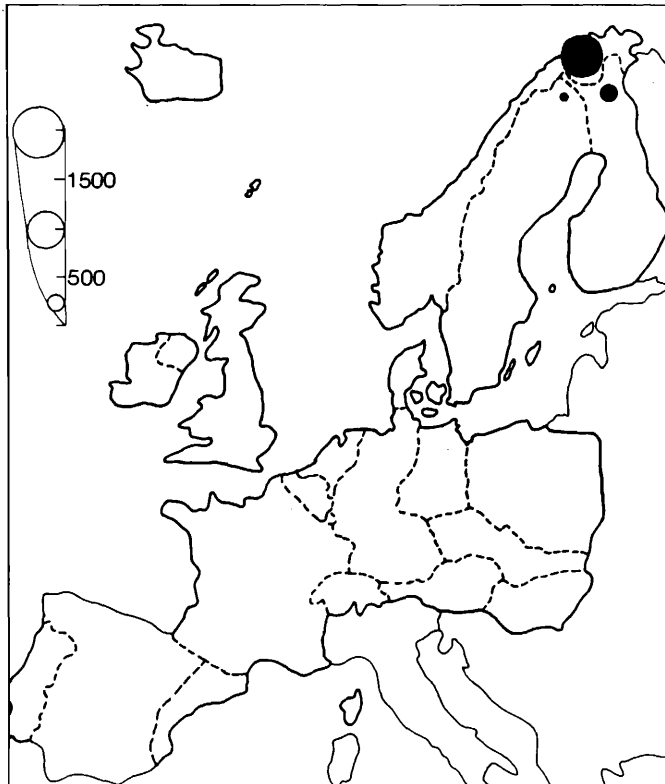
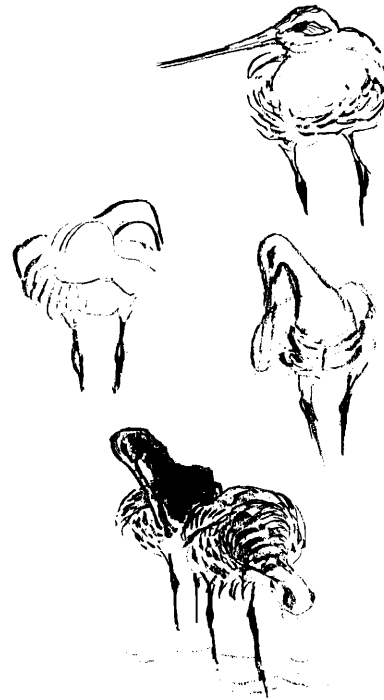


Figure 25. Distribution of Bar-tailed Godwits *Limosa lapponica* in Europe.

Bar-tailed Godwit *Limosa lapponica* (Figure 25). Europe is on the fringe of the subarctic breeding range (chiefly in the USSR) of Bar-tailed Godwits. Small numbers of the subspecies *lapponica* breed in northernmost Fennoscandia, especially Norway (1300 pairs).

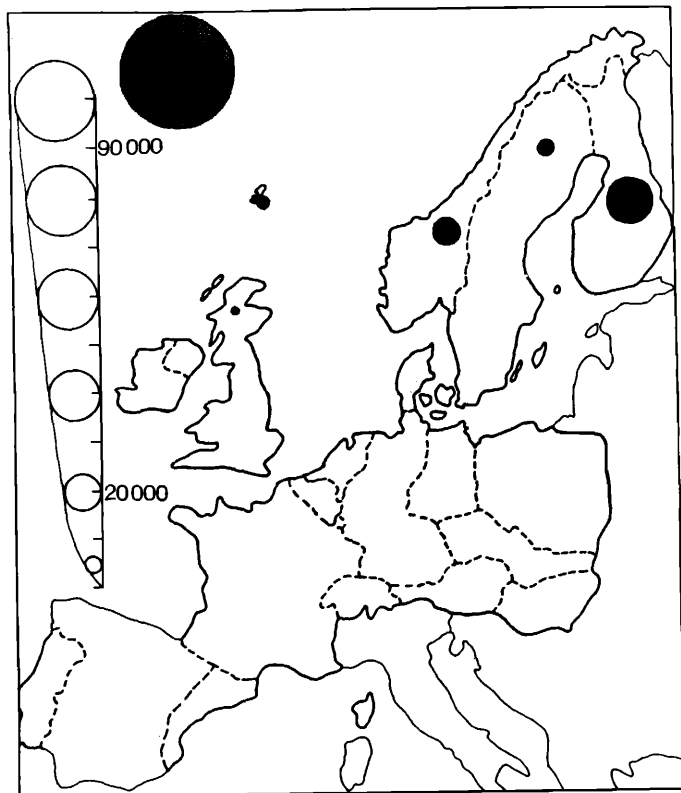


Figure 26. Distribution of Whimbrels *Numenius phaeopus* in Europe. Black dots indicate the subspecies *phaeopus* and the shaded circle is the subarctic population of "*islandicus*" (200 000 pairs in Iceland, see text).

Whimbrel *Numenius phaeopus* (Figure 26). Whimbrels from the subarctic breeding grounds on Iceland are sometimes treated as a separate subspecies ("*islandicus*"), although they are usually considered as belonging to the nominate *phaeopus*, despite differences in size. Iceland harbours by far the largest breeding population of Europe (200 000 pairs). Outside Iceland, Finland holds over 60% of Whimbrels breeding on mainland Europe, with smaller populations in Sweden, Norway and northern Britain.

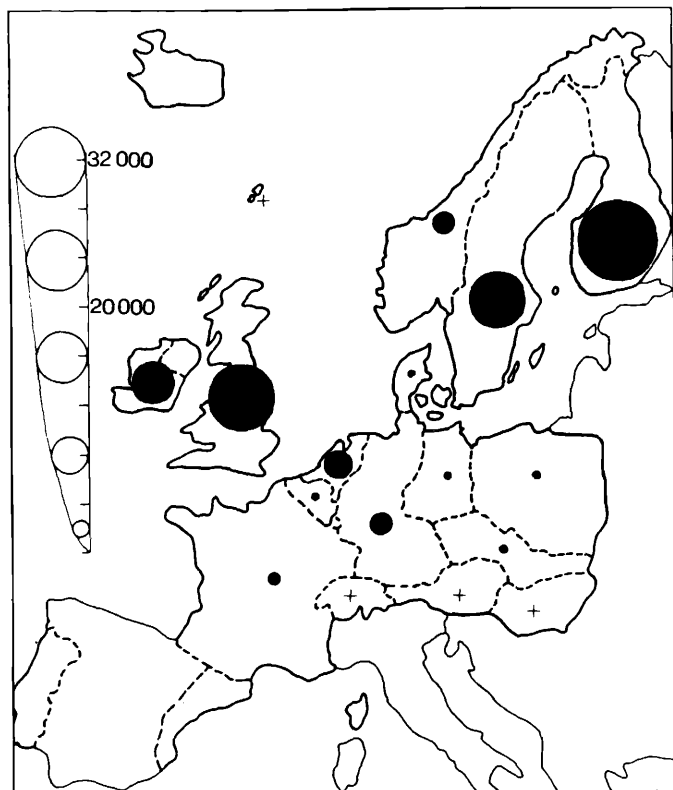


Figure 27. Distribution of Curlews *Numenius arquata* in Europe.

Curlew *Numenius arquata* (Figure 27). Only the subspecies *arquata* is recognized in Europe. Most European breeding Curlews are in Britain (18-20% of birds) and in Finland (16%). Elsewhere, Sweden and Ireland support large populations, but Curlews are scarce elsewhere in northern Europe and absent from southern Europe.

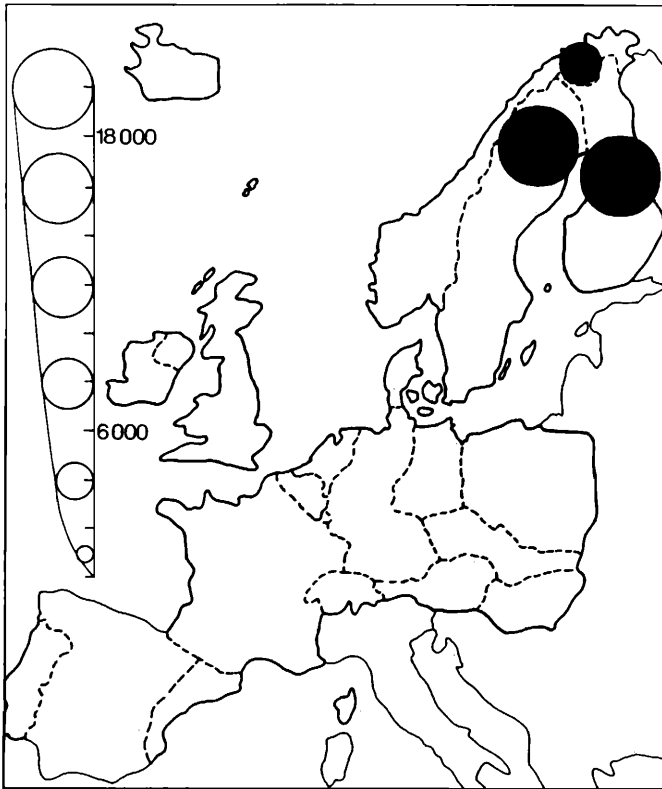


Figure 28. Distribution of Spotted Redshanks *Tringa erythropus* in Europe.

Spotted Redshank *Tringa erythropus* (Figure 28). The monotypic Spotted Redshank is found in Europe only in northern Fennoscandia, with most in Sweden and Finland (45% of the population in each country).

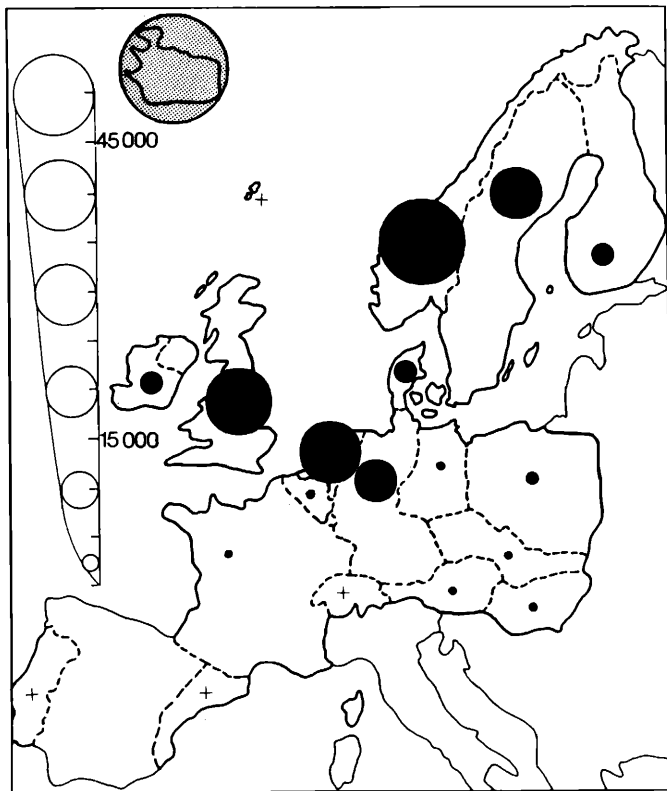
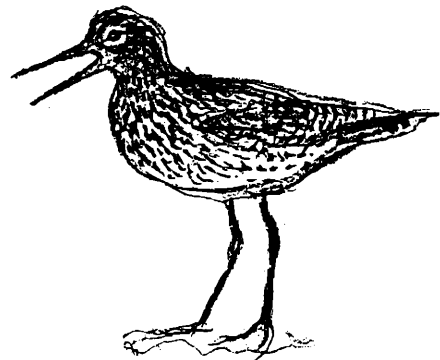
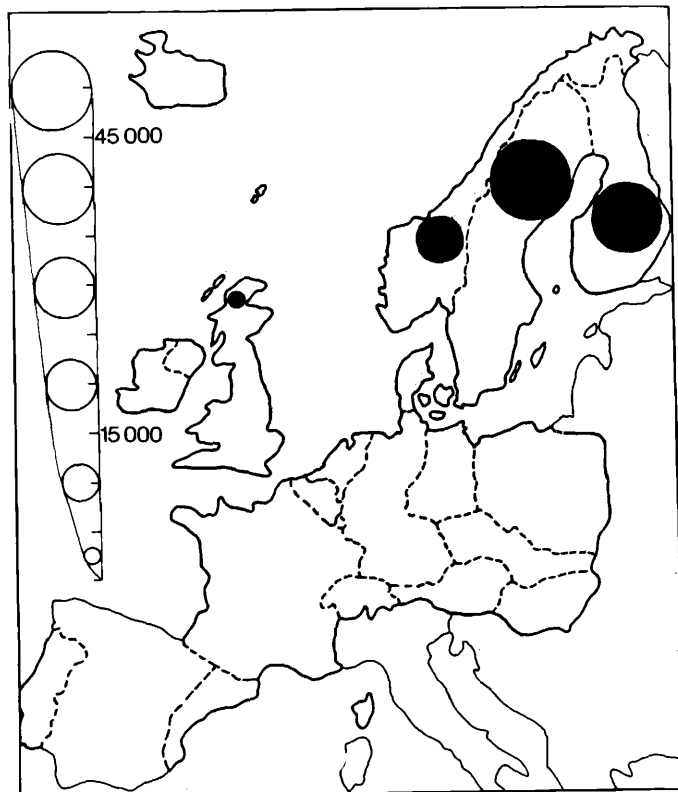


Figure 29. Distribution of Redshanks *Tringa totanus* in Europe. Black dots show the subspecies *totanus* and the shaded circle shows the subspecies *robusta* (100 000 pairs).

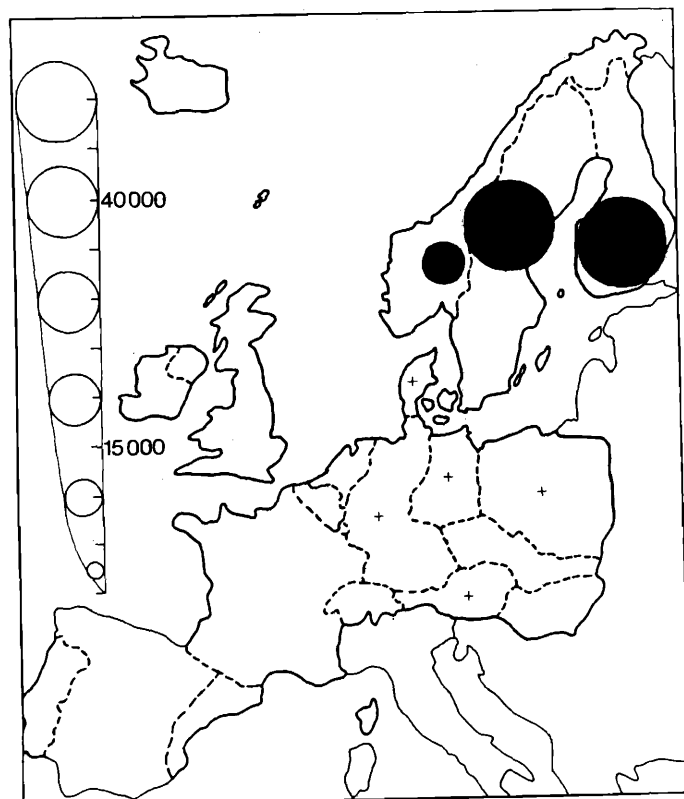
Redshank *Tringa totanus* (Figure 29). At least two subspecies of Redshanks are found in Europe: *robusta* on Iceland and the Faroe Islands, and the nominate *totanus* in the rest of Europe. Formerly, birds from the British Isles were placed in a separate subspecies *britannica*. Largest breeding populations of *totanus* are found in Norway, Britain and The Netherlands, which together have over 70% of the breeding pairs. Elsewhere there are large populations only in Sweden (12%) and West Germany (8%). At least 100 000 pairs of *robusta* breed in Iceland.





Greenshank *Tringa nebularia* (Figure 30). This monotypic species has its European stronghold in Fennoscandia, especially Finland and Sweden (together 83% of the European population). Outside Fennoscandia the only breeding population in Europe is in Scotland.

Figure 30. Distribution of Greenshanks *Tringa nebularia* in Europe.



Green Sandpiper *Tringa ochropus* (Figure 31). The majority of breeding European Green Sandpipers are restricted to Fennoscandia, especially Sweden and Finland (90% of the European population).

Figure 31. Distribution of Green Sandpiper *Tringa ochropus* in Europe.

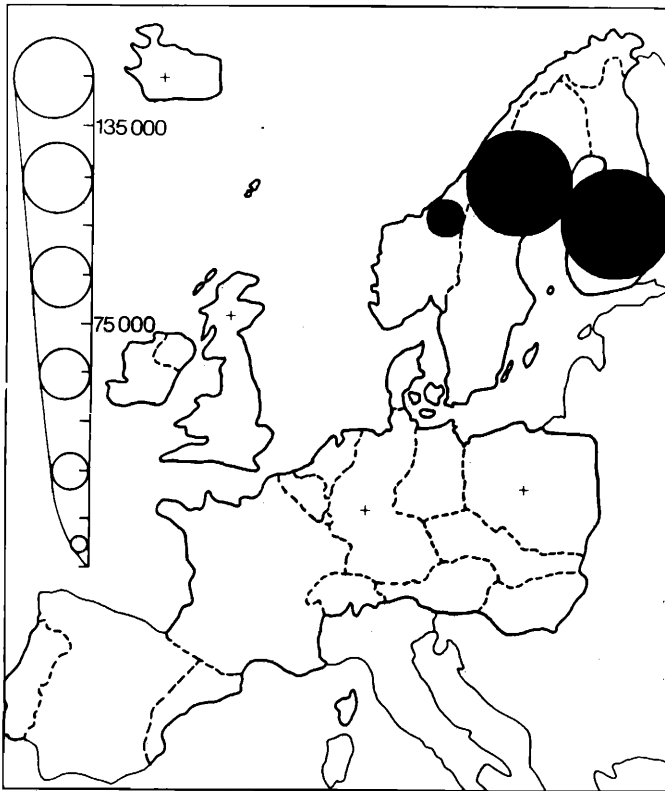


Figure 32. Distribution of Wood Sandpipers *Tringa glareola* in Europe. The large dot in Finland represents 300 000 pairs.

Wood Sandpiper *Tringa glareola* (Figure 32). Another monotypic tringid sandpiper which is very numerous in Europe, but which occurs almost exclusively in Fennoscandia. Both Sweden (250 000 pairs) and Finland (300 000 pairs) hold very large breeding populations.

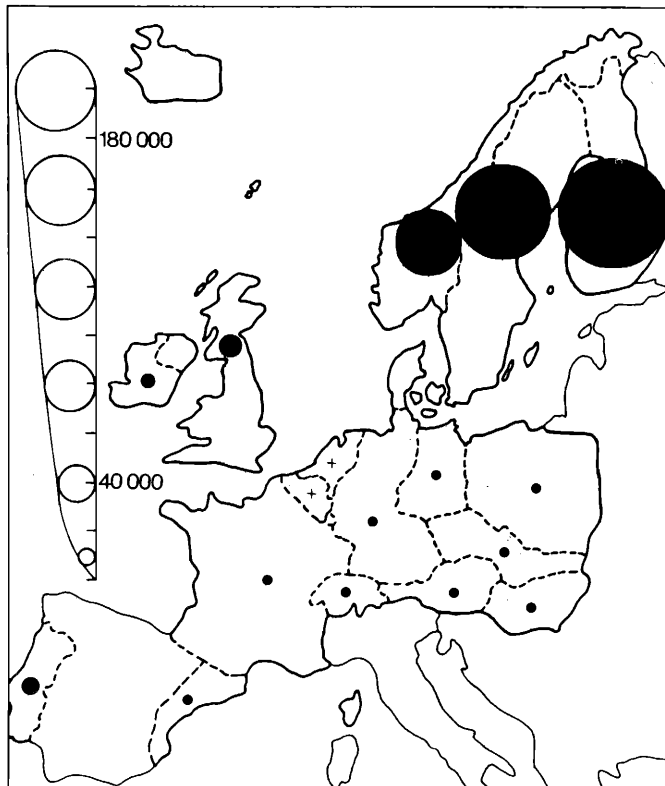


Figure 33. Distribution of Common Sandpipers *Actitis hypoleucos* in Europe. The large dot in Finland represents 400 000 pairs.

Common Sandpiper *Actitis hypoleucos* (Figure 33). Though Common Sandpipers breed over much of continental Europe and Asia, it is monotypic. It is a very numerous European breeding species and the greater part (96%) of the large European breeding population (882 000 pairs) is found in Fennoscandia. Elsewhere there is a large population only in Great Britain and Ireland (22 000 - 25 000), but Common Sandpipers breed in small numbers also over much of the rest of Europe.

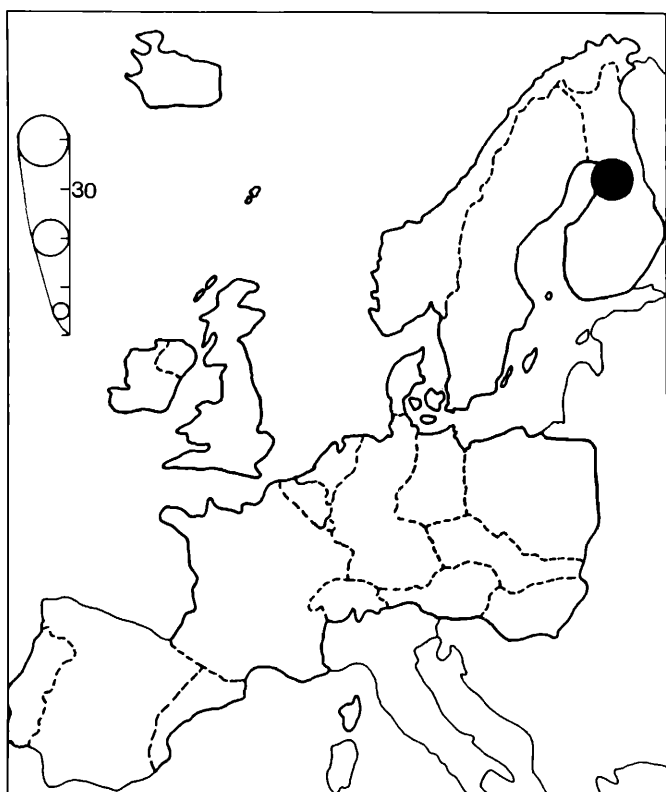


Figure 34. Distribution of Terek Sandpipers *Xenus cinereus* in Europe.

Terek Sandpiper *Xenus cinereus* (Figure 34). Terek Sandpipers breed over much of the northern USSR. There is a small breeding population (only c. 30 pairs) on the extreme western fringe of the breeding range, along the Gulf of Bothnia in Finland.

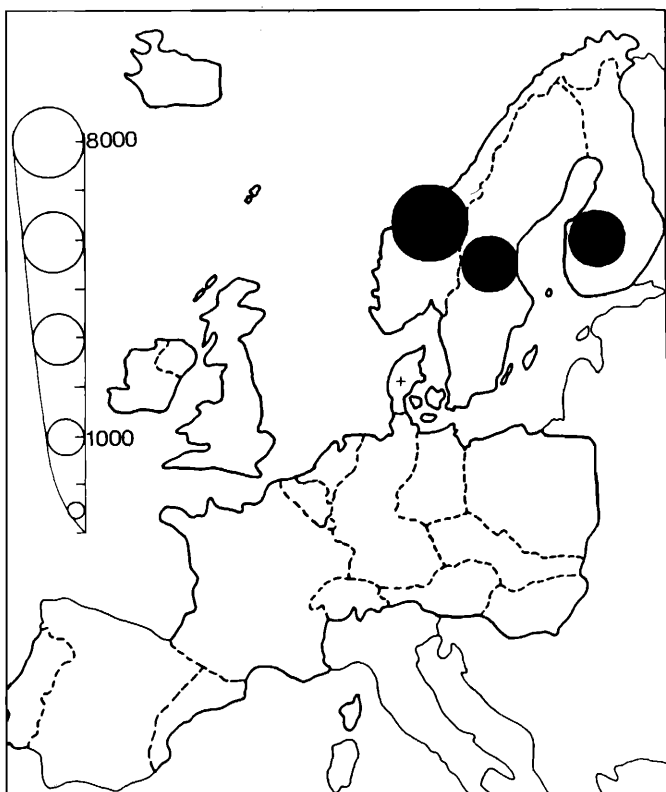


Figure 35. Distribution of Turnstones *Arenaria interpres* in Europe.

Turnstone *Arenaria interpres* (Figure 35). All Turnstones in the surveyed area of Europe and the Arctic belong to the nominate subspecies. Large breeding populations occur in Greenland and Ellesmere Island (25 000 pairs). In Europe 20 000 pairs breed in the coastal areas of Norway, Sweden and Finland, with a very small population in Denmark.

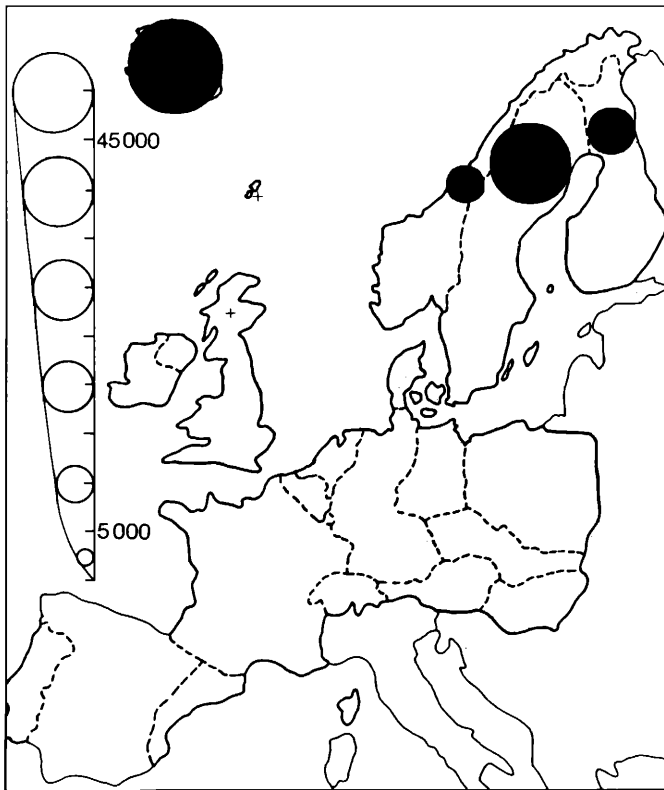
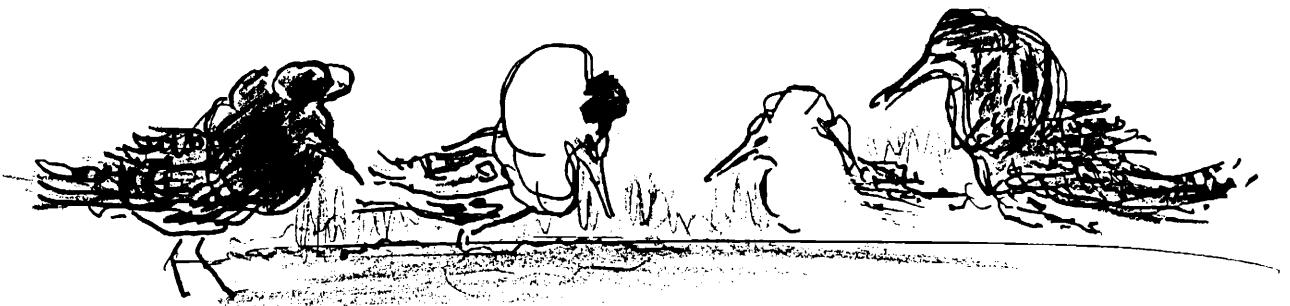


Figure 36. Distribution of Red-necked Phalaropes *Phalaropus lobatus* in Europe.

Red-necked Phalarope *Phalaropus lobatus* (Figure 36). The monotypic Red-necked Phalarope is a northern breeding species. Its European strongholds are in Iceland (50 000 - 100 000 pairs) and in Sweden (50 000 pairs). Elsewhere there are smaller breeding populations in Finland and Norway, and very small populations on the Faroe Islands and in Scotland.

Grey Phalarope *Phalaropus fulicarius* (no map). Grey Phalaropes have a circumpolar breeding distribution. There are small breeding populations found on Ellesmere Island, Greenland, Svalbard, and also in Iceland (<100 pairs).



5.2. DISCUSSION

This survey with its first assessment of population sizes of breeding waders throughout most of Europe, has highlighted several features of the distribution and size of the populations. The high arctic is known to support major breeding populations of waders. This survey has clearly identified subarctic and temperate Europe also as supporting very large populations of breeding waders. In total at least 6.5 million pairs of waders breed in the parts of Europe covered by this survey. By comparison, Meltofte (1985) estimated that the population of breeding waders in high arctic Greenland and Ellesmere Island was only c. 100 000 pairs, although he considered that this was an underestimate.

The comparisons of population sizes in different countries highlight the great importance of Iceland as a focus of the breeding populations of many species, especially Ringed Plover, Golden Plover, Purple Sandpiper, Dunlin (*schinzii* ssp.), Snipe, Black-tailed Godwit (*islandica* ssp.), Whimbrel, Redshank and Red-necked Phalarope. For southern breeding species such as Black-winged Stilt, Stone Curlew, Collared Pratincole and Kentish Plover, Portugal and Spain (even just the small area surveyed here) are very important breeding grounds. Fennoscandia is the major breeding area in Europe for many species, notably the large populations of tringid sandpipers such as Common Sandpiper, Green Sandpiper, Wood Sandpiper, Spotted Redshank and Greenshank. Fennoscandia also supports the main breeding populations of mainland Europe of many other species.

Despite its relatively small area, The Netherlands is a major breeding area for several European waders, especially Oystercatcher, Avocet, Lapwing and Redshank, and has about 85% of European breeding Black-tailed Godwits. Great Britain has the largest breeding populations of Lapwings in

Europe, and has also a large population of Oystercatchers, the largest temperate population of Ringed Plovers, the only remaining large populations of temperate breeding Dunlins and Golden Plovers, and the only large populations of Woodcock and Curlew outside Fennoscandia.

The survey highlights also that for many species the bulk of the breeding population is restricted to just a few countries. Few breeding waders are widespread in Europe, exceptions being the Little Ringed Plover and the Lapwing, although even the latter is scarce in southern Europe. Thus habitat changes over even quite small parts of Europe could have major impacts on the breeding populations of many species of waders.

Table 4 lists the twenty most numerous breeding waders of Europe and the nearby Arctic, and suggests that species with coastal and estuarine wintering habitats may have generally smaller breeding populations than those which winter in the (perhaps more extensive) inland and freshwater habitats. Excluding Red-necked Phalarope, which winters at sea, and Greenshank, which occurs both coastally and inland, average rank numbers for coastal and inland wintering species are respectively 12.9 (n = 8) and 7.8 (n = 10). Although this difference is not statistically significant (Mann-Whitney U = 29, p > 0.05), it may repay further investigation.

An important step in interpreting breeding population figures such as those in this survey, is to compare the estimated breeding population with estimates of the number of wintering birds of the same populations. However, to do so on a European scale for most species requires much greater knowledge on the size and geographical origins of wintering wader populations and migratory routes than is presently available. Nevertheless, for a few

Table 4. The 20 most abundant breeding wader species of Europe and the nearby Arctic (see Figure 1), along with their main wintering habitats.

Rank	Species	Approximate total number of pairs (from Table 3)	Wintering habitat
1	Lapwing	869 000	inland
2	Common Sandpiper	882 000	inland
3	Snipe	841 000	inland
4	Golden Plover	609 000	inland
5	Wood Sandpiper	577 000	inland
6	Dunlin	371 000	coastal
7	Woodcock	347 000	inland
8	Redshank	268 000	coastal
9	Whimbrel	248 000	coastal
10	Ruff	247 000	inland
11	Oystercatcher	218 000	coastal
12	Red-necked Phalarope	150 000	(marine)
13	Green Sandpiper	133 000	inland
14	Black-tailed Godwit	133 000	inland
15	Curlew	125 000	coastal
16	Ringed Plover	115 000	coastal
17	Greenshank	109 000	inland (coastal)
18	Purple Sandpiper	66 000	coastal
19	Spotted Redshank	45 000	inland
20	Turnstone	44 000	coastal

species on limited breeding areas, such comparisons have been attempted. Van Dijk (1983) compared the breeding and wintering figures for West European breeding Oystercatchers and Redshanks, and found the two figures to be of the same order of size (provided that some simple assumptions on age structure were made). Meltofte (1985) estimated the size of the breeding populations (in pairs) in high arctic Greenland and Ellesmere Island for several species (Table 2) and then calculated the autumn population by multiplying by two and adding 1.5-2 fledged juveniles per pair and, for the late-maturing Turnstone and Knot, a further 50-60% of the juvenile number to represent the surviving one-year-old (non-breeding) young of the previous year. He then found that, apart from Turnstone, the estimates derived from breeding numbers were much lower than the estimates of population size on the wintering grounds, and suggested that his breeding estimates for high arctic Greenland and Ellesmere Island were too low.

The winter distribution and population sizes of Dunlins are known quite precisely. We know that almost all the one million Dunlins wintering along the Atlantic coast of Morocco belong to the two subspecies *schinzii* and *arctica* (Engelmoer et al. 1984, Pienkowski et al. 1985). Indeed, the birds wintering in Africa seem to be almost the entire populations of these subspecies. The *schinzii* race breeds in southwest Greenland (an unknown number of pairs), Iceland (300 000 pairs), Great Britain (9000 pairs) and around the Baltic Sea (less than 2000 pairs). The *arctica* race breeds only in high arctic Greenland (5000 pairs). If about one-quarter of the juvenile population remains on the wintering areas during their second summer, the non-breeding summering population in West Africa will be about 55 000 second year birds. With this many birds remaining on the wintering grounds, the total breeding population of 630 000 individuals would need to produce one young per pair per year for the numbers to equal the estimated wintering population. Since both above assumptions (young production and size of summering population) are reasonable (see e.g. Soikkeli 1967, 1970), at least for these two subspecies of Dunlin the emerging picture seems rather realistic. This finding holds the promise that it may eventually be possible to arrive at accurate, integrated, views of the distribution and size

of the population of many species of waders on both their breeding and wintering areas.

This survey has proved that it is feasible, with the help of an international group of co-operative (and committed) individuals, to arrive at reasonably accurate estimates of breeding population size on a continental scale. At most, previous breeding population surveys have been made for single countries. In fact, we know of no other example in ornithology in which breeding bird populations have been assessed on such a grand scale.

As such, this survey has greatly extended understanding of the size and distribution of waders breeding in Europe. Nevertheless, even this survey is incomplete in many respects and must be viewed as only a first assessment. We have highlighted that even some widespread and well-studied species (notably Woodcock) need much more attention before good estimates of their total breeding populations can be achieved.

Much future work is needed within the surveyed area to extend and refine the currently very rough estimates of population sizes of many species. Increased accuracy of estimates is a vital precursor to any attempt to use these estimates for evaluation of changes in the population sizes of waders on an international scale (cf. Prater 1981 for such evaluation for wintering waders). Equally pressing is the need to extend the geographical coverage of the survey, especially into southern and eastern Europe.

A major aim of this first attempt to summarise breeding populations of waders in Europe is to provide the direction and stimulus for further international survey work on breeding waders, as well as for more fundamental research on their breeding biology. Reference to the bibliography that follows reveals substantial gaps in the published information on many species. For example, the difficult-to-study tringid sandpipers of Fennoscandia may prove a suitably demanding challenge for comparative breeding biology studies.

Breeding Waders in Europe is only the start, and we hope that in a few years time it will prove possible to update and greatly refine the estimates of breeding wader population sizes summarised here.

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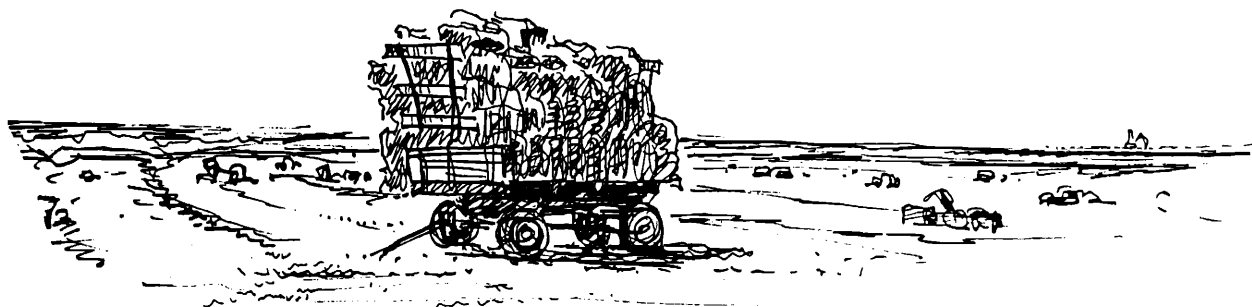
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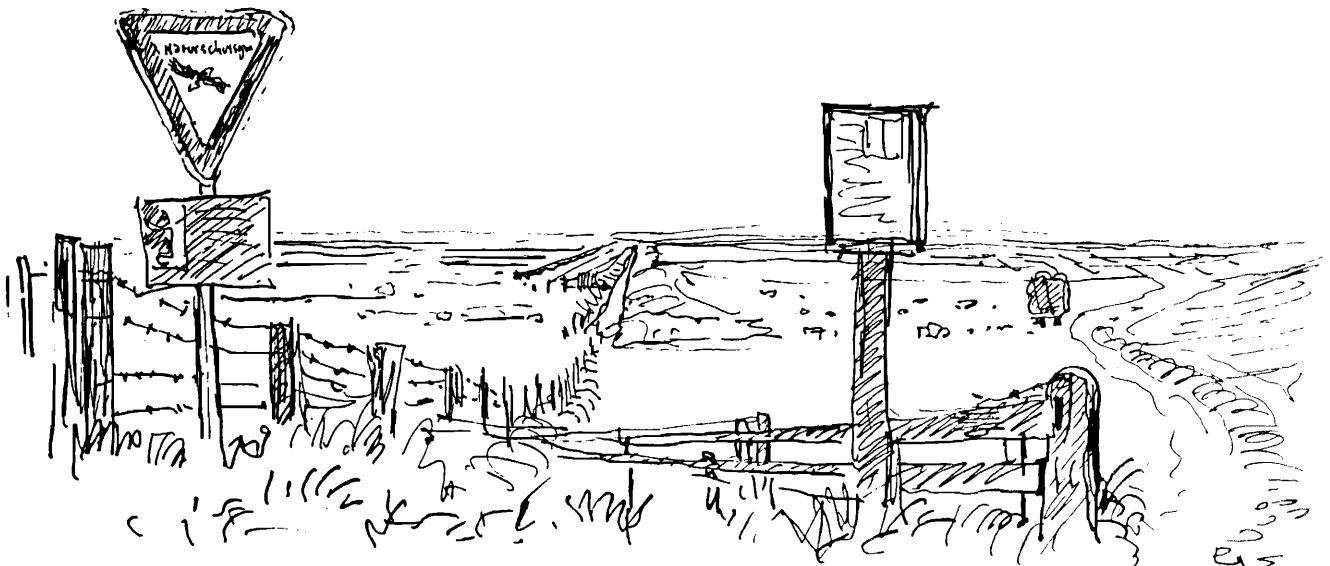
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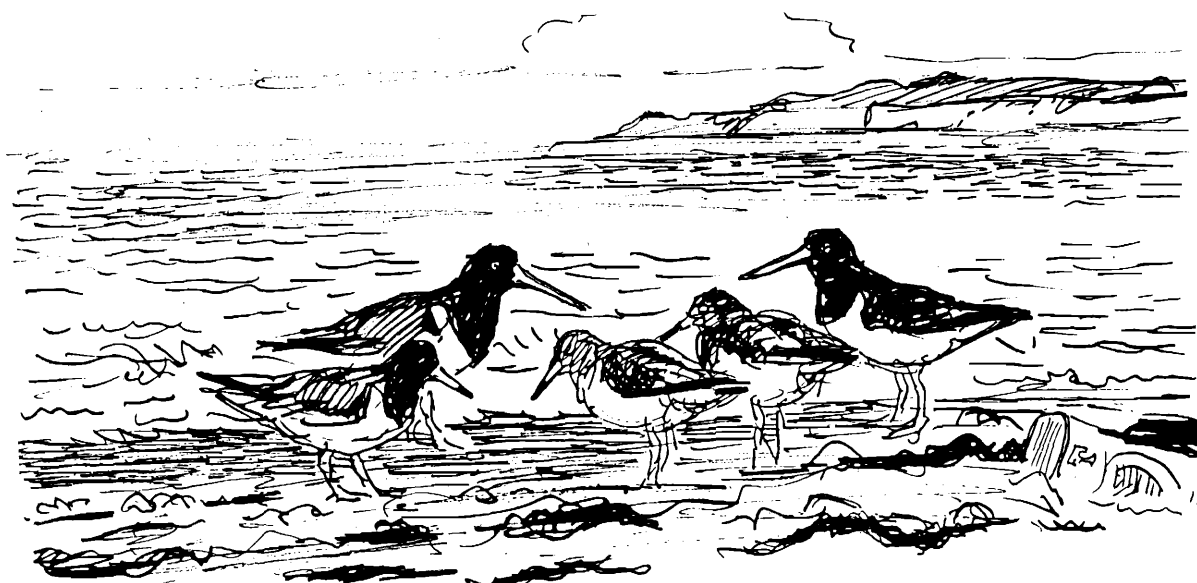


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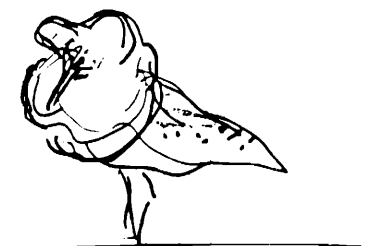
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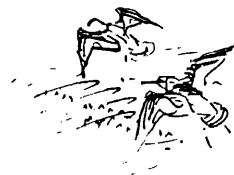
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compiled by Sven Blomqvist

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6.55. CZECHOSLOVAKIA

compiled by Vera Hromadkova-Lnenickova

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6.61. THE NETHERLANDS

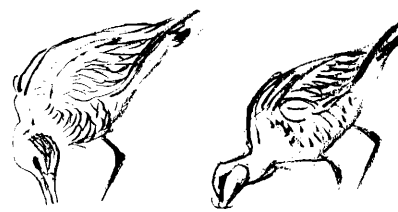
compiled by Theunis Piersma and Theo Verstrael

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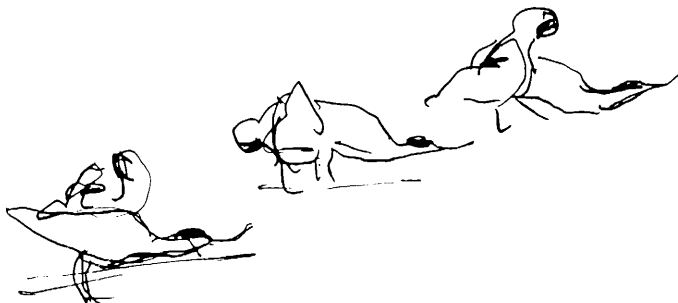


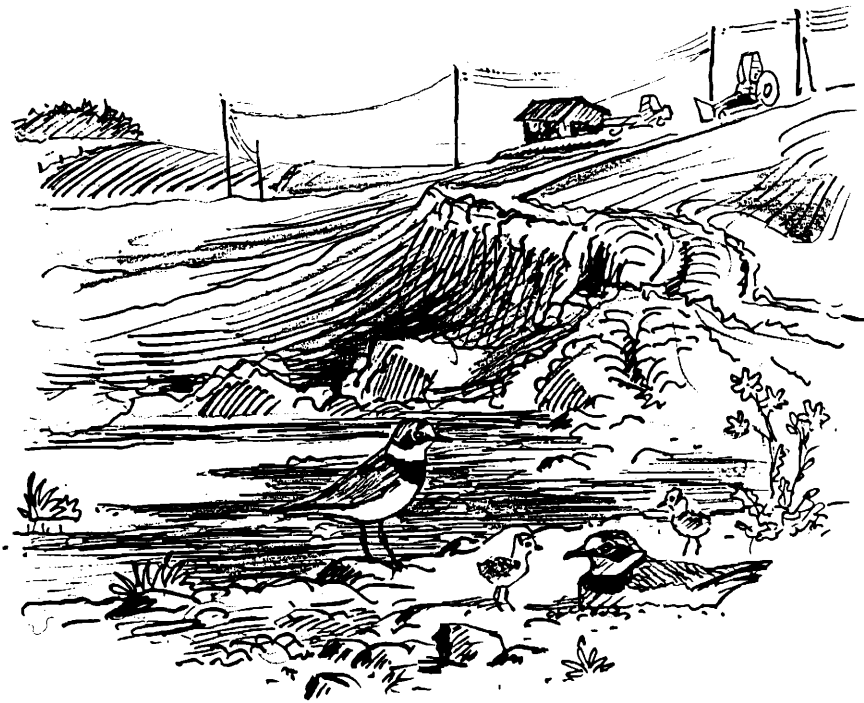
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The WADER STUDY GROUP (WSG) is an association of amateur and professional workers on the Charadrii (waders or shorebirds) from all parts of the world. By 1982, membership of the WSG was over 500 people, more than half of the members living in countries other than Britain (where the group was formed in 1970), and including people in the Americas, Asia, Africa and Australasia, as well as Europe. New World members have their own section within the WSG. Interests of the Group have diversified from the original concentration on migration-related studies to embrace all aspects of research on waders, e.g. counts, breeding biology, feeding ecology and behaviour.

The aims of the WSG are to maintain contact between both amateur and professional individuals and groups studying waders; to help organise co-operative studies; and to provide a vehicle for exchange of information. The main means of achieving these aims is by the publication of the *Wader Study Group Bulletin* (see below). WSG maintains contacts with many regional, national and international bodies interested in bird research and conservation, notably the International Waterfowl Research Bureau (IWRB), and often works alongside them in co-operative studies. The Group has been involved also in the organisation of expeditions to remote areas to fill gaps in the knowledge of waders. Projects co-ordinated by WSG have included studies of the spring migration of Siberian-breeding Knot through Europe and Africa, and of other species passing through western Europe. Current projects include a comprehensive assessment of the networks of coastal sites used by shorebirds in western Europe in the non-breeding season; a large-scale investigation of spring migration through the Americas; a long-term monitoring of the usage of inland sites in Europe; and an investigation into the effects of severe winter weather in Europe. Most of these studies have immediate relevance to conservation as well as increasing basic understanding of wader biology. These comments apply also to the current WSG co-operative projects concerning breeding waders, particularly an intensive study of wader distributions and densities in the Outer Hebrides of Scotland, where rapid changes are being made due to agricultural practices. WSG also co-ordinates (on behalf of several national authorities) the use on waders of colour-marks visible in the field, and attempts to forward sightings of these.

Membership of the WSG is open to all individuals or groups interested in waders, and application forms can be obtained from the Membership Secretaries, N. & J. Clark, Department of Zoology, University of Edinburgh, West Mains Road, Edinburgh EH9 3JT, U.K. The subscription is devoted mainly to the cost of production and circulation of the *Bulletin*. The annual subscription is #10 (or US \$17 or Canadian \$21). Outside Europe, *Bulletins* will be sent by airmail for a total subscription of #13 (or US \$22 or Canadian \$27). Rates for institutions and payment through subscription services are #25 (or US \$42 or Canadian \$52), or for airmail posting #28 (or US \$47 or Canadian \$58). All cheques should be payable to "Wader Study Group" and must be in British, US or Canadian currency. Alternatively, payments may be made by bank giro (in English pounds) to Lloyds Bank Ltd., 7 Victoria Place, Haverfordwest, Dyfed SA61 23Z, U.K. (Bank sorting code no. 30-93-98), with reference to WSG account (no. 0095972); or by British Post Office Giro to account no. 471204404. Please ensure that your name and initials appear on the transfer form and that a membership application form is sent directly to WSG. Persons, with bank accounts in Britain may use the bankers order form provided with the application form.

The *WADER STUDY GROUP BULLETIN* provides a forum for news, notices, recent ringing recoveries, recent publications, new methods of catching and study, articles and preliminary or interim publication of results from all parts of the world. The editors try to maintain a balance of material ranging from newsletter,

informal descriptions of research activities, meetings and expeditions to formal presentation of results or preliminary analyses.

The *Bulletin* appears three times per year, in April, August and December; the deadlines for copy being the first of February, June and October respectively, for notices, but articles must be received well before these dates. Articles, notes, papers, notices, obituaries, requests for information, books for review, reprints of papers and other items should be sent to the Editor, Dr. N.C. Davidson, c/o Nature Conservancy Council, Northminster House, Peterborough PE1 1UA, U.K. Material relating to the New World may be sent to the editors of the New World Section (Dr. J.P. Myers, Vertebrate Biology, Academy of Natural Sciences, 19th and the Parkway, Philadelphia, Pennsylvania 19103, U.S.A.; and Dr. R.I.G. Morrison, Canadian Wildlife Service, 1725 Woodward Drive, Ottawa, Ontario, Canada K1A 0E7). Matters relating to the circulation of the *Bulletin* should be sent to the Membership Secretaries (address above).

The Editors are always pleased to discuss possible contributions with potential authors, and to advise on presentation. Manuscripts should be typed or written clearly, with all lines double-spaced, leaving wide margins, and following the style of *Bulletin 40 (April 1984)* or later issues. Pay particular attention to the style of headings and reference lists. Scientific names should appear at the first mention of each species or, if all species occur in a table, scientific names may be given there instead. Tables and figures should, wherever possible, be designed to fit a single column width of 12 cm. Full page width is 25 cm. A single column of text comprises 47 characters (including spaces).

The *Bulletin* is produced from camera-ready copy printed by a NEC Pinwriter P7 dot-matrix printer driven by a British Broadcasting Corporation Microcomputer Model B (Acorn Computers), with a Computer Concepts "Wordwise Plus" word-processing chip. Authors with such equipment may submit copy in machine-readable form. Advice on this was given in *Bulletin 40*, and is summarised here. Material should be on a 5.25 inch floppy disc, single-sided, at single density, and preferably on 80-track (but 40-track is acceptable). Authors with Epson-compatible printers can include "embedded commands" in the text for italics, underlining, superscripts etc. Otherwise, mark these features clearly on a print-out of your article, using a coloured-pen. A print-out of the article should in any case be sent as well as the machine-readable form. It may be possible for authors with a BBC Microcomputer, but not "Wordwise" or "Wordwise Plus", to submit machine-readable material, but please consult the editor first.

Line illustrations and figures should be produced neatly in black ink on good quality white or tracing paper, with linear dimensions about 1.5 times intended publication size. These can then be used directly in printing. Lettering should be stencilled or by dry transfer (e.g. Letraset), and be at least 1.5 mm high after final reduction. If stencil or dry transfer is not available, leave the original illustration unlabelled, and mark the required lettering on a separate copy. Please send original illustrations, and retain a copy in case of loss or damage in transit. It would be helpful if two copies of each manuscript could be submitted.

Publication of interim results in *WSG Bulletin* is not intended to pre-empt publication of final results as journal papers. Readers are requested to bear in mind that results and analyses published in *WSG Bulletin* may be of a preliminary nature, and to take account of this if making reference to these articles in publications of their own. If editors of other publications wish to reprint items from *WSG Bulletin* with suitable acknowledgement, this can usually be arranged; the persons concerned should contact the WSG Editor.

WADER STUDY GROUP

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DECEMBER 1986

BREEDING WADERS IN EUROPE

Breeding Waders in Europe is a comprehensive review of population size estimates of all the Palearctic wader (Charadrii) species breeding in the greater part of Europe (Iceland, Faroes, Norway, Sweden, Finland, Denmark, Poland, Czechoslovakia, Hungary, Austria, Switzerland, East and West Germany, The Netherlands, Belgium, Luxembourg, Great Britain, Ireland, France, north-east Spain and Portugal), together with Svalbard, north and east Greenland and Ellesmere Island. It has been compiled by Theunis Piersma on behalf of the Wader Study Group. The review is based on published sources and on the results of the most recent surveys, supplied as unpublished material by national correspondents. A total of 37 wader species are included. Together they give a total of 6.5 million breeding wader pairs in Europe and a further 100 000 pairs in Svalbard, Greenland and Ellesmere Island. Species' totals range from 30 pairs (Terek Sandpiper) to 869 000 pairs (Lapwing). The completeness and accuracy of the surveys in the different countries varies greatly. For each species an annotated map, summarising the numerical distribution of breeding pairs over Europe, is given. In addition to the population size estimates, Breeding Waders in Europe lists all published sources on which the estimates are based, and aims also to list all the recent (from 1950 onwards) publications on the breeding biology of waders in Europe. The bibliography consists of 3356 entries: 326 for breeding biology studies of general interest, 887 for species-specific studies and 2143 for publications on breeding wader surveys, listed by country. The gaps in the current knowledge of the distribution and size of European breeding wader populations are highlighted. This is intended to stimulate and focus future work on breeding waders both in the areas covered by this review, and elsewhere in Europe.

