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NOTES FOR CONTRIBUTORS

Isopoda is published annually in the Spring by the British Isopod Study Group. Articles and reviews on any aspect of the biology of isopods (and terrestrial amphipods) will be considered for publication. Contributions from non-professional zoologists are particularly welcome. Style should follow that of the current issue. Further details concerning Isopoda, and the British Non-Marine Isopod Survey Scheme can be obtained from: -

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COVER PHOTOGRAPH

The photograph is of Armadillidium album Dollfus 1887 (5 mm in length) collected from Newborough Beach, Anglesey. Photograph by Steve Hopkin.

AN INDEXED BIBLIOGRAPHY OF THE DISTRIBUTION AND ECOLOGY OF WOODLICE
(CRUSTACEA, ONISCIDEA) IN GREAT BRITAIN (1830-1986)

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INTRODUCTION

A bibliography of the woodlice of Britain and Ireland has been in gestation for some 25 years. The present bibliography is, in effect, the third and final part of a list which includes over 820 titles. Two previous parts have been published which cover Ireland and the works of W E Collinge respectively (see below). The current part contains 527 titles and includes only publications relating to species in Great Britain, the Isle of Man and the Channel Islands. The period covered is from the earliest published list (1830) to the year (1986) immediately preceding the launch of a new journal, Isopoda, which is primarily devoted to work on woodlice in the British Isles.

SCOPE OF THE BIBLIOGRAPHY

The bibliography does not cover every topic concerning woodlice in Great Britain. Instead it covers publications which are concerned primarily with the geographical distribution and the ecological requirements and preferences of species. In this way, it covers a topic area similar to that covered in Harding & Sutton (1985).

It has been difficult to separate those publications which are concerned directly with distribution and ecology, from those dealing with physiology, morphology and toxicology. I have, somewhat arbitrarily, omitted a number of mainly recent publications on these latter topics by British authors (in particular C A C Hames, D M Holdich, S P Hopkin and M H Martin, and their respective co-workers). However, many of these publications are listed in the references of papers by the four authors published in the two Biology of Terrestrial Isopods symposia volumes (Sutton & Holdich 1984, Ferrara 1989). A bibliography of such papers could possibly be compiled and published separately.

A few publications have been listed which are only marginally relevant to distribution and ecology, such as those by Howard on genetics, by Chater on cultural aspects and by several authors on parasitism and predation.

A BIOGRAPHY OF THE BIBLIOGRAPHY

The bibliography has a history which is inextricably linked with my own career. In the following section a brief history of the bibliography is included for those with a perverted interest in why anyone should want to undertake such a project.

I first took an interest in woodlice when I was in the Sixth Form at

school. Soon after I started work, at Monks Wood in 1962, I found that one of my many duties in the Conservation Research Section was to identify hoards of woodlice in samples from various Breckland heaths. In 1964 I rediscovered Armadillidium album (see cover photograph), in South Wales, and this single event put me on a road which has been a perpetual source of enjoyment throughout a varied career. My interest in woodlice has been part-hobby, part-job, for nearly 30 years.

When I started working on woodlice at Monks Wood, the only keys available to me were Edney (1954) and, if I could have afforded it, Webb & Sillem (1906). Vandel was published in 1960 & 1962, but I did not become aware of it until 1964. The other important continental work, by Gruner, was not published until 1966. The British Isles literature was diffuse and without an easy starting point for access. In this situation, if one wanted to find out what had been done on the British Isles fauna, it was necessary to follow whatever leads existed. I began by tracing the publications cited by Edney and Vandel. Thus, in 1964, I began to compile a card index of publications on British and Irish woodlice and gradually to build up vice-county tables of the occurrence of species.

I was firmly convinced that I was the only person in the British Isles with an interest in the group until my brief note on Porcellionides cingendus (1967) prompted a letter from Stephen Sutton who had recently taken up a post as lecturer in the Zoology Department at Leeds University. By that time I had left Monks Wood and was, for reasons best known to myself, working on a permanent night shift at a jam factory near Cambridge. Whilst gainfully employed for 9 months at night, I spent happy afternoons in the Cambridge University Library and in the Balfour Library of the Zoology Department, excavating papers on woodlice from often obscure journals. The new-found collaboration with Stephen Sutton, and through him with John Metcalfe, gave my isolated work on woodlice and their distribution a new sense of purpose. In 1970, the Biological Records Centre, at Monks Wood, supported the launching of linked recording schemes for woodlice, millipedes and centipedes; details of this phase are given in Harding and Sutton (1985).

In September 1971 I returned to Monks Wood to join the Woodlands Section, having abandoned my peripatetic life as jam maker, warehouse clerk, nature reserve warden and researcher on crop pests, in favour of marriage and a mortgage. I was fortunate to be able to do a little work on woodlice as part of my duties at Monks Wood. After a gap of three years, more work could be done on the putative 'Bibliography of woodlice in Britain and Ireland'. However, that phase was short lived and woodlice increasingly became a hobby.

Harding & Sutton (1985) have explained the reasoning behind the decision to concentrate efforts in the Isopod Survey Scheme on new records rather than trying to interpret possibly unreliable published records. For this reason, work on the bibliography became less important although it was maintained to include new and additional titles which had previously been overlooked. When work on the text for Woodlice in Britain and Ireland was in progress, we discussed the possibility of publishing the bibliography in that book, but decided to omit it because of lack of time to complete the bibliography and limitations on space.

A typescript of the references of the bibliography was shown to British delegates at the 2nd International Symposium on the Biology of Terrestrial Isopods at Urbino in 1986. Since then, Steve Hopkin has acted as my conscience to get the bibliography into print so that it may be of use to others.

THE IRISH BIBLIOGRAPHY

By 1974 I was confident that I had covered most of the publications on Irish woodlice and an indexed bibliography (Harding 1975) was prepared. A revised and enlarged version of this bibliography, including 131 titles covering publications from 1836 to 1981, was subsequently published in Doogue & Harding (1982).

THE W E COLLINGE BIBLIOGRAPHY

From an early stage in our collaboration, Stephen Sutton and I had doubts about some of the records published by Collinge in his long series of papers, particularly those published between 1941 and 1947. Our growing knowledge of the habitats and distribution of species did not equate with those described by Collinge. An opportunity to examine the Collinge collection and archives at the Yorkshire Museum, forced me to conclude 'that it would be unwise to continue to accept the published works of W E Collinge on British Isles woodlice as being reliably based on correct identification'. This view has subsequently been confirmed also for his work on aquatic Isopoda and foreign woodlice. A complete bibliography of Collinge's publications on British Isles woodlice (165 titles) is included in my re-examination of his work (Harding 1977).

CHRONOLOGY AND PERSONALITIES

Although Chater (1983 and 1988) has shown that woodlice have been in the cultural consciousness of the British and Irish for centuries, the earliest list of the species occurring in Britain, that I have traced, dates from 1830. In that year Leach listed 6 species (Table 1). It is interesting to note that both Leach and Templeton (who published the first Irish list, of 5 species, in 1836) included Porcellio laevis, a species now considered to be uncommon.

By 1899, the list included 19 species, largely thanks to the work of C S Bate, A M Norman and T R R Stebbing, who added a further 4 species by 1904. Although Webb & Sillem (1906) produced a splendidly illustrated book on woodlice, which remained the standard work for the next 48 years, they did not add any new species. R S Bagnall, A R Jackson, A Patience and R Standen added 14 native and 7 alien species in the period 1906-1913. Although Bagnall, Standen and particularly W E Collinge were active during the next 30 years, only 1 native and 3 alien species were added during the next 63 years. Following the launch of the Isopod Survey Scheme in 1970, 5 native species were added by 1986 and further species in subsequent years. The growth of the British list is summarized in Table 1.

With the exception of Eluma purpurascens, which may be a recent introduction to Britain, all the native species added to the British list since 1904 have been small or difficult to identify, or they occur in unusual habitats. The rate at which species have been added to the British list since the Scheme began in 1970 suggests that there may be other species to be found, for example by working difficult and inaccessible habitats or by critically examining the species we already know, to look for 'hidden' species. Further introductions to the British fauna cannot be ruled out, particularly of partially synanthropic species with horticultural imports. The scope for further alien species in heated glasshouses may still be good, despite modern pest control measures.

Little work was done on ecological aspects of British woodlice until the 1960s, exceptions being work on Ligia (especially by Bassindale in the 1940s), on Platyarthrus (Donisthorpe) and on the effects of weather on several species (Cloudsley-Thompson and Sankey). Quantitative ecological research was started

at Oxford, under Charles Elton and Kitty Southern, where a succession of workers (Brereton, Lloyd, Sutton and Phillipson) used Wytham as a research site. Sutton went on to found the 'Leeds woodlouse school' (Davis, Fussey, Grundy, Hassall, Sunderland and Willows). In his turn, Hassall supervised Rushton at the University of East Anglia. Trichoniscus pusillus seems to have been the most favoured species for population ecology because not only did Sutton work on it at Wytham, as did Fussey at Leeds, but Standen (nee Healey), at Manchester, and Frankel, at London, also worked on the species. At Bristol, Martin extended research on heavy metal pollution and invertebrates with Hopkin, who has since gone on to found a new 'Reading woodlouse school' (Hames and Jones). The genetics of woodlice in Britain have been largely neglected, except by Howard, whose work was spread over a period of 40 years. However, in France the genetics of woodlice have been studied actively.

FUTURE PROSPECTS

New generations of 'woodlousers' will have to be recruited, but prospects seem to be good as several excellent young specialists have become involved with the Scheme in recent years. Despite having been studied for 160 years in Britain, anyone with the enthusiasm to go and look and to learn, will find something new concerning British woodlice. Distribution is a readily accessible topic to study, but the ecology of only a few species has been studied. The fashion for observational natural history is due for a comeback and what more accessible and maleable species could one want than many of our commoner woodlice. The 800 plus titles in the complete bibliography of British and Irish woodlice cover a limited area of study; there is still plenty of work to be done!

ACKNOWLEDGEMENTS

I am very grateful to my wife, Philippa, who has been on the fringes of the work on this bibliography for longer than either of us care to remember. Without access to the Cambridge University Library and the Balfour Library of the Zoology Department it would have been impossible to have seen all the relevant publications. The former Librarian at Monks Wood, Jean King, provided much help and advice. I am also grateful to Stephen Sutton and Steve Hopkin for their help in many ways and to several others who have kindly brought increasingly obscure papers to my attention.

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Table 1 The chronological growth of the British species list of woodlice (1830-1986)

Date of publication	Author	Species added
1830	Leach	Armadillidium vulgare Ligia oceanica Oniscus asellus Philoscia muscorum Porcellio laevis P. scaber
1859	Hogan	Platyarthrus hoffmannseggii
1868	Bate & Westwood	Androniscus dentiger Cylisticus convexus Halophiloscia couchi Porcellionides pruinosus Porcellio spinicornis Trichoniscus pusillus
1873	Stebbing	Ligidium hypnorum
1899	Norman	Armadillidium depressum A. nasatum Haplophthalmus danicus Porcellio dilatatus Porcellionides cingendus
1904	Norman & Brady	Armadillidium pulchellum Haplophthalmus mengei Trachelipus rathkei Trichoniscoides albidus
1906	Bagnall	Trichoniscus pygmaeus
1906	Patience	* Cordioniscus stebbingi * Styloniscus spinosus
1908	Bagnall	Armadillidium album * Chaetophiloscia patiencei
1908	Patience	* Miktoniscus linearis Trichoniscoides sarsi
1910	Jackson	* Agabiformius lentus
1913	Bagnall	* Nagurus cristatus * Trichorhina tomentosa
1913	Standen	Armadillidium pictum
1918	Collinge	* Nagurus nanus
1947	Holthuis	* Chaetophiloscia meeusei * Reductoniscus costulatus
1968	Sheppard	Trichoniscoides saeroeensis
1976	Harding	Eluma purpurascens
1980	Harding, Cotton & Rundle	Stenophiloscia zosteræ
1981	Oliver & Trew	Metatrachoniscoides celticus
1982	Oliver & Sutton	Miktoniscus patiencei
1983	Oliver	Buddelundiella cataractae

* Species considered to be alien in Great Britain

INDEX TO THE BIBLIOGRAPHY

The index is in 3 parts: to species, to main topics (other than distribution and ecology) and to geographical areas.

Species

All references to the native species of Britain are indexed except for the commonest 5 species (Armadillidium vulgare, Oniscus asellus, Philoscia muscorum, Porcellio scaber and Trichoniscus pusillus) which are cited in almost all the publications. Any references to alien species are indexed under that one heading. References to 3 species of uncertain taxonomic or British status are listed separately. The index is to the species named in the paper (but using modern nomenclature), not to any subsequent interpretation of the identification. Thus, all references to Trachelipus ratzeburgi, which is no longer considered to be a valid British species, are listed under that name.

Main topics

A small selection of topics is indexed for publications which make a significant contribution to the subject area.

Geographical

This was probably the most difficult index to compile because of the variety of geographical units used in the publications. The index is to modern administrative counties wherever practicable, but in some cases older (pre-1974) counties are used with modern equivalents in brackets. Some sites which are distinct (eg islands), or where research has been done (eg Wytham), have been indexed separately within the appropriate county.

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Armadillidium album Dollfus

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Armadillidium depressum Brandt

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Armadillidium nasatum Budde-Lund

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