



A Bibliography of Ditch Surveys in England and Wales

Part 1: Surveys 1878 to 1999

Compiled by R. J. Driscoll

2007

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Contents

Introduction	4
Acknowledgements	7
References	8
Table 1. Geographical index to ditch surveys	9
Table 2. Bibliography	22
Table 3. Location of items included in the bibliography	81
Figure 1. Map showing the areas of England and Wales subject to drainage works and/or flood defence	82

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Introduction

Background

Much of lowland Britain is drained by networks of artificial channels or ditches (local names include: dykes, reens, rhynes, drains and sewers). Prior to 1970, the literature dealing with ditches was almost solely concerned with their land drainage function. Since the 1970s there has been an upsurge of interest in the ecology of ditches, stimulated by the belated recognition of their importance as a wildlife habitat and by the realisation that the habitat was under threat from drainage improvements. As late as 1979 Clare (1979) wrote "It is surprising considering the widespread distribution and significance of drainage channels as an aquatic habitat ... that little information is available on their ecology ..." In fact a great deal of information had been collected by 1979, although most of it was unpublished and so was not readily available to Clare when he was carrying out his own research.

Since the early 1970s there have been numerous biological surveys of ditch systems, ranging from the recording of a single ditch to extensive surveys including more than 2000 sample sites. So many surveys were carried out during the 1970s and 1980s that in 1989 Drake (1989) wrote that "ditches ... must be one of the best surveyed habitats in England by now". The results of some of this work have been published, but the sheer quantity of information collected means that much of it remains unpublished. Many of the surveys were written up in unpublished reports that were produced in small numbers and were not widely circulated (in some cases only a single copy was produced). Some of the surveys have not even been written up in unpublished reports and the results are available only as field record sheets or record cards. As a result, much of the information collected has been virtually unobtainable to most potential users. Unpublished reports are generally hard to trace and much of the research that has been completed has been overlooked by later workers.

This bibliography of published and unpublished reports has been compiled to make the results of these ditch surveys more readily accessible. The 2007 version covers work carried out up to the year 1999 (reports produced in 2000) and is based on an unpublished bibliography produced by the author in 1999. Work on the revision was funded by Buglife – The Invertebrate Conservation Trust.

Scope of the bibliography

This bibliography is concerned only with published or unpublished reports of biological surveys of ditches in England and Wales. For the purpose of the bibliography a survey is defined as *an attempt to record the flora and/or fauna at one or more sample sites in one or more ditches*. No attempt has been made to trace or include isolated biological records from ditches. Surveys of water chemistry have been included only if they formed part of a more general biological survey. Most of the items included are primary sources (i.e. original reports). Secondary sources (e.g. reviews of biological data) have been

included if they contain information that is not readily available elsewhere. Whenever the raw survey data have been traced, these have been included in addition to the published and/or unpublished reports based on them. Some surveys were never written up as reports, in which case the raw survey data alone have been included.

Marshall *et al.* (1978) mapped the distribution of the main areas of artificially drained land in England and Wales and listed 28 areas. During the compilation of this bibliography reports were traced for many of these areas and from several other areas that had been omitted or overlooked by Marshall *et al.* In contrast, no reports were traced from several other areas included in Marshall *et al.* Table 1 lists the areas of artificially drained land covered by this bibliography and Figure 1 shows their locations.

Serious research on Broadland dykes began in 1972 and a great deal of work has been carried out since then. Driscoll (1996, 1999) and Driscoll & Doarks (1997) have reviewed this work in detail and similar reviews would be very useful for some of the other areas where researchers have been particularly active.

Very few items have been traced that are earlier than 1970, reflecting the general lack of interest in ditches before the 1970s. Although the most recent item dates from 2000, coverage of the late 1990s is probably far from complete. Some of the more recent surveys have yet to be written up and others have no doubt been overlooked because they have not yet been widely circulated or referred to in the literature.

This bibliography is not intended to be a general guide to the literature on ditches. It excludes the large number of works that deal with the land drainage function of ditches and most investigations of ditch management techniques. General limnological works that include sections on ditches have also been excluded.

Compilation

Several methods were used to trace the items included in this bibliography. Each method produced results that were not obtained by any of the others, an indication of how difficult it is to trace information that is largely unpublished.

The compiler's own collection of reprints and unpublished reports provided the obvious starting point. The Bibliography/References sections of these items were systematically searched. Any relevant reports were traced and the process repeated until no more new items were found. This exercise yielded a large number of reports, although it soon became apparent that many unpublished works had been overlooked or ignored by other researchers and had never been referred to.

As work progressed, draft lists were circulated to colleagues, who suggested several items (mostly unpublished) that would otherwise have been overlooked.

A literature search was carried out by the library staff at English Nature, Peterborough using the key-words: ditch, dyke, drain, reen and rhyne. This search revealed a number of items that would otherwise have been missed. Several days of browsing through the report holdings of the library at English Nature, Peterborough produced a number of unpublished reports that had not been traced during the literature search.

Work on this bibliography has revealed just how poor many authors are at citing other work (including their own earlier work). Some references to published work and many references to unpublished work simply do not contain enough information (or correct information) to enable the items to be traced. Conversation with some of the authors revealed that they gave references merely to indicate that they were aware of or had used other sources of information and had never really considered that their readers might wish to trace these references for their own purposes!

Most of the items listed in the bibliography have been seen by the compiler and the

references checked against the items. Items that have not been seen are clearly indicated.

Limitations

This bibliography is incomplete. Without doubt many small reports lie buried in the site files in various Natural England offices, in the files of various national and local nature conservation organisations and in local biological/environmental records centres. Some larger reports, including several theses, are available for inspection at particular libraries but cannot be borrowed or copied. With the limited resources available it was simply not possible to visit the majority of these organisations and libraries in order to trace or examine such items. Other items are known about (i.e. they have been cited by other workers) but have not been traced. Unfortunately, the number of such items (work that has been carried out, and in some cases written up, but has subsequently been lost) is larger than might be expected and includes some potentially very important reports. Other items are known about but have not been seen, as their contents are confidential. (A prolific worker in Kent was unable to provide copies of his many unpublished reports, or even a list of them, because he did not keep copies himself!)

In the past, most biological/ecological surveys were carried out on behalf of the Nature Conservancy Council (and its successor English Nature) or other nature conservation organisations. Although most of the resulting reports were produced in limited numbers and many have been ignored or overlooked by other workers, the original intention nevertheless was to collect information and in most cases make it available to other researchers. Only a very small proportion of the reports produced was considered to be confidential, due to the sensitive nature of their contents, and this confidentiality usually lapsed with the passage of time.

Many recent surveys have been carried out by consultants working for private or commercial concerns. The results of these surveys have proved to be far more difficult to trace as the reports are often 'confidential' and are very definitely not available to the general enquirer. The very existence of some reports is denied.

Arrangement of the bibliography

The bibliography is in two parts. A geographical index to ditch surveys (Table 1) indicates the area covered by each survey, details of its scope and a list of references. This is followed by the bibliography proper (Table 2), arranged alphabetically by author. Most entries include a very brief summary and a note about the location of the item (see below).

Location of items and their availability

Knowledge that a report exists is of little use unless a copy can be traced and consulted. In this bibliography at least one 'location' is given for every item that has been seen by the compiler. In some cases the location given is an organisation (usually indicating that the item is in the organisation's library). In other cases the name of an individual who has a copy of the item is given. Once a copy of an item had been traced no attempt was made to trace further copies. Nevertheless, in many cases more than one location is given. The inclusion of a location does not mean that a particular item is generally accessible at that location, merely that the compiler knows of a copy there.

Published items can generally be obtained at any library through the British Library Document Supply Service. Unpublished items generally cannot be obtained so easily. The organisation that commissioned or produced the item should be contacted by

anyone interested in the report(s) or original data. Some reports were not commissioned by a named organisation and in other cases the details are not available. To gain access to such items it would be necessary to approach an organisation or individual that holds a copy. However, it should be borne in mind that none of the locations listed is a lending library. Some organisations have limited facilities for dealing with outside enquiries and some of the items listed are the personal property of individual members of staff. The compiler of this bibliography has copies of many of the items included and if all else fails he may be able to help.

Most of the items in this bibliography have been seen by the compiler, who has obtained a copy whenever possible. Items that have not been seen by the compiler are clearly indicated by NOT SEEN.

The codes for the location of copies of the reports are listed in Table 3.

Acknowledgements

Compiling this bibliography was far more difficult than I imagined it would be at the outset and would not have been possible without the help I received from others. With very few exceptions the people I approached for assistance went out of their way to help.

Many people gave or loaned, and allowed me to copy, reports they had written or had in their care or possession, informed me about items that I would otherwise have overlooked, or provided me with helpful contacts. The library staff at English Nature, Peterborough carried out a very productive literature search at very short notice.

I would like to thank the following people for their help. People change jobs and/or retire and organisations change their names: where the name of an organisation is given in this list it is the name that was in use at the time the person helped me:

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So many people have helped. I apologise if I have omitted anyone - I am grateful even if I have failed to include your name.

The bibliography was originally intended to form a small part of a paper that was being prepared for the 'Nature Conservation and the Management of Drainage System Habitat' symposium held at Nottingham University in September 1993. The bibliography soon outgrew the paper and had to be dropped from it. John Harpley kindly agreed to include the bibliography as an extra item in the published proceedings of the symposium and encouraged me to continue working on it. Unfortunately, despite a great deal of work, the

proceedings were never published. A draft version of the bibliography was circulated in the mid 1990s (over 60 copies) and the inclusion of additional items has continued.

Some of the original work on this bibliography was carried out whilst the compiler worked for Norfolk Museums Service. A. G. Irwin, the keeper of Natural History, read and commented on a draft of the text and converted the original text files from Locoscript to WordPerfect. Jo Parmenter later converted the WordPerfect files to Word, allowed the compiler to use her computer, patiently gave instruction in the use of Word, helped with page layouts and generally made the 2007 revision of the original bibliography possible.

The revision was carried out for Buglife – The Invertebrate Conservation Trust. It forms a contribution to a three-year Buglife project to investigate the ecological status of grazing marsh ditch systems in England and Wales. The production of the revised bibliography was made possible by funding from the Norwich and Peterborough Building Society.

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Driscoll, R. J. 1996 *Broadland Dyke Survey 1972-1995*. Unpublished report. 211p.

Driscoll, R. J. 1999 *The Thurne catchment area: a review of some surveys of land use and of the flora and fauna of dykes*. Unpublished report. 30p.

Marshall, E. J. P., Wade, P. M. and Clare, P. 1978 Land drainage channels in England and Wales. *Geographical Journal* **144**(2), 254-263.

Table 1. Geographical index to ditch surveys

Codes used for types of survey:

- A Aquatic macrophyte survey (may include some algae)
- B Aquatic invertebrate survey (may include some vertebrates)
- C Phytoplankton survey
- D Epiphytic diatom survey (may include some other algae)
- E Land use survey (extensive surveys only)
- F Drainage pattern survey (extensive surveys only)
- G Water chemistry (includes electrical conductivity, but not pH alone)
- H Habitat data (including management)
- I Classification of aquatic macrophyte flora
- J Classification of aquatic invertebrate fauna
- K Classification of epiphytic diatom flora
- L Biological/ecological assessment
- * Information about scope of work not available

See Figure 1 for the location of Areas 1 to 28.

Area/Date of survey	Scope		Reference
1 Oxfordshire			
1983 (Wytham Meads)	A	H	Watt & Kirby (1983)
2 Surrey			
1987? (Wey valley)	A		Walker (1987)
3 West Sussex			
1974-1976 (Amberley Wild Brooks)	A		Bishop (1974-1976)
Review of data (Amberley Wild Brooks)	A		Buckle (1977)
1977 (Amberley Wild Brooks)	A	L	Newbold (1977)
1978 (Waltham Brooks)	A B		Driscoll (1979)
1979 (Amberley Wild Brooks)	A B		Farrell & Palmer (1980)
1980-1988 (Amberley Wild Brooks)	A		Byrne & Palmer (1991)
1980-1989 (Amberley Wild Brooks)	A B	G	Garland (1990), Mugridge (1982, 1983, 1984, 1985)
1989 (Bracklesham Bay)	A		Hitchings (1989)
1989-1990 (Arun valley)	B	L	Hodge (1990)

1990 (Pulborough Brooks)	A		H		Self & Burch (1990)
1996 (Amberley Wild Brooks)	AB		H		Killeen & Willing (1997)
1997 (Arun valley)	* * * * *		* * * * *		Abraham <i>et al.</i> (1998)
1997 (Arun valley)	AB		GH		Willing & Killeen (1998)
4 Pevensey Levels					
1969-1978	B		H		Hingley (1979), Keymer <i>et al.</i> (1989)
1976	AB	E	GH		Steel (1976)
197?	* * * * *		* * * * *		Chandler (1979)
1981	B				Keymer <i>et al.</i> (1989)
1981	AB		GH		Palmer (1981b)
1982	A	E	GHI	L	Glading (1986a)
1983	B				Carr (1983, 1985), Keymer <i>et al.</i> (1989)
1983	AB		GHI	L	Glading (1986a), Palmer (1984a, 1986b)
1984	A	E		L	Glading (1986a), Keymer <i>et al.</i> (1989)
1986	B				Belden (1987), Keymer <i>et al.</i> (1989)
1986	A	E	H	L	Keymer <i>et al.</i> (1989)
1991	B			L	Hodge (1991)
1993	A		GHI		Mundy (1993)
1994	AB		H	J	Killeen (1994)
1996	AB		H		Killeen & Willing (1997)
5 East Sussex					
1983-1984 (Rye Harbour area)	B				Smith (1985)
1986 (Lewes Brooks)	* B * * * * *		* * * * *		Hicklin (1986b)
1986 (Lewes Brooks)	AB	E	GH	L	Hicklin (1986a)
1986-1988 (Offham Marshes)	B				Hodge (1988)
1987 (Brede Level)	A		H		Allwright (1987)
1987 (Pett Levels)	B			L	Hodge (1987)
1987? (Pett Levels)	A		H		Anon (1987?b)
1988? (Offham Marshes)	A				Anon (1988?)
1989 (Lewes Brooks)	B	E	GH	L	Drake (1989b)
1996 (Lewes Brooks)	AB		H		Killeen & Willing (1997)
1998-1999 (Lewes Brooks)	AB		H		Hodge (2000)
6 Romney Marsh					
1954-1959	A				Rose (1954-1959)

19??	A * * * * * * * * * *			Phillips (1975)
1975-1983		D		Morris (1984)
1980	A	E	L	Latimer (1980), Whisson (1984)
1981	A	E	H	Mountford & Sheail (1982, 1983)
1982	A B		GH L	Carr (1982), Foster (1982, 1983b), Palmer (1982b, 1985?a, 1987), Philp (1982)
1983 (Hayward House)	A		L	Pell (1983)
1984 (Lydd Ranges)	A B			Henderson & Henderson (1984)
1984 (Near Offens Farm)	A		H	Whisson (1984)
1984-1985 (Five Watering Sewer & Highnock Channel)	A		H	Whisson (1985b)
1985 (Hayward House)	A		H	Whisson (1985a)
1985 (Walland Marsh)	A * * * * * * * * * *			Whisson (1985c), Williams <i>et al.</i> (1994)
1985-1989 (Lambs Drain)	A B C		G I J	Nature Conservancy Council & Southern Water (1989), Wade (1986, 1987a, 1988, 1989a, 1989b, 1990)
1990 (East Guldford)	* * * * * * * * * *			Chris Blandford Associates (1992)
1993-1994 (Walland Marsh)	A		I	Williams (1995c), Williams <i>et al.</i> (1994), Williams & Ware (1998)

7 Kent

1986 (Near South Willesborough)	A B		H	Drake (1986a)
1986 (Near South Willesborough)	A		GH	Palmer (1986c)
1986 (Near South Willesborough)	A	E	H	Whisson (1986b)

8 East Kent marshes

1976 (Pegwell/Deal)	A		H L	Ainley-Walker (1976), Barter (1978a), Nature Conservancy Council & Southern Water Authority (1979a, 1979b)
1978 (Lower Stour valley)	A B	E F	GH L	Barter (1978a, 1978b), Henderson (1982), Nature Conservancy Council & Southern Water Authority (1979a, 1979b), Southern Water Authority (1978)
1981 (Lower Stour valley)	A		H	Newbold (1981)
1982 (Sandwich/Deal)	A	E F	H L	Henderson (1982), Pell (1984)
1983 (Worth)	A			Keymer (1983)
1984 (Sandwich/Deal)	A	E	H L	Pell (1984)

1989 (Stodmarsh)	A	GH		Van Dongen & Painter (1989)
1996	AB	H		Killeen (2000), Killeen & Willing (1997)
1999	AB	H	L	Killeen (2000)
9 North Kent marshes				
197? (Cliffe Marshes)	A * * * * *			North Kent Wildlife Preservation Society (1975)
197? (Cliffe Marshes)	A * * * * *			Philp (1976)
1979-1980 (Crayford & Dartford Marshes)	AB	GH		Knights & Powlesland (1984)
1980-1981	AB	GHI	L	Charman (1980, 1981), Charman <i>et al.</i> (1985), Palmer (1981a, 1981c), Philp (1980), Stubbs (1980), Williams (1995b)
1982 (Near Conyer)	A			Keymer (1982)
1982 (Teynham Level & near Conyer)	A	GH		Newbold & Palmer (1982)
1983? (Cliffe Marshes)	A			Anon (1983)
1985 (Dartford Marshes)	A	H		Pardon (1986b), Whisson (1986a)
1985 (Dartford Salt Marshes)	A			Keymer (1986)
1985-1986 (Crayford Marshes)	A	H		Pardon (1986a)
1986 (Crayford & Dartford Marshes)	B			Carr (1986, 1987)
1986 (Dartford Marshes)	A	G	L	Palmer (1986a)
1986 (Dartford Marshes)	A	E H	L	Whisson (1986a)
1987 (Near River Medway)	AB			Philp (1987)
1989? (Ferry Marshes)	* B * * * * *			Gower (1989?a), Key (1990)
1989? (Iwade Marshes)	* B * * * * *			Gower (1989?b), Key (1990)
1989? (Sheppey Court & Diggs Marshes)	* B * * * * *			Gower (1989?c), Key (1990)
1989 (Iwade Marshes)	* B * * * * *			Philp (1989a), Key (1990)
1989 (Ridham & Coldharbour Marshes)	* B * * * * *			Philp (1989b), Key (1990)
1989 (Ridham & Coldharbour Marshes)	* B * * * * *			Environmental Resources Ltd (1990)
1990 (Cliffe Marshes)	AB	E G	L	Environmental Advisory Unit (1990), Port of London Authority (1990)
1990 (Iwade Marshes)	B			Philp (1990), Key (1990)
Review of data (Ridham/Coldharbour Marshes area)	B			Key (1990)

19??	* * * * *			Kent Trust for Nature Conservation (1991)
1991 (Cliffe & Higham Marshes)	B	H		Kirby (1991a)
1991 (Cliffe & Higham Marshes)	AB	H	L	Philp (1991)
1991 (Crayford Marshes)	B	H	L	Plant (1991)
1992 (Dartford Marshes)	B	H		Plant (1992)
1992 (Westcourt Marshes)	B	GH		Pond Action (1992)
1992 (Westcourt & Filborough Marshes)	B	H	L	Hodge (1992)
1993 (Erith & Belvedere Marshes)	B	H	L	Plant (1993)
1993 (North Kent Marshes ESA)	A	GHI		Morris <i>et al.</i> (1993), Williams (1995c, 1996), Williams & Ware (1998)
1994	AB	G		Avey (1995)
1994 (Chetney Marshes)	A			Williams (1995a, 1996)
1994 (Shorne Marshes)	A			Williams (1995b, 1996)
1995	A	GHI		Williams (1996), Williams & Ware (1998)

10 Essex coast

197?	* * * * *			Macey (1975)
198? (Pitsea Marsh)	* * * * *			Powlesland (1984)
1983	AB			Philp (1983)
1984 (Old Hall Marshes)	A	E F GH	L	Taylor (1984)
1985 (Inner Thames Marshes)	A			Pardon (1986c)
1986 (Rainham Rifle Ranges)	B	H		Plant (1986)
1987 (Aveley Marshes)	B	H	L	Plant (1987)
1987	B	H	L	Drake (1988b, 1990b)
1987	A	GHI	L	Wolfe-Murphy <i>et al.</i> (1991)
198? (Old Hall Marshes)	A * * * * *			Kerry (1988)
1988 (Rainham & Wennington Marshes)	B		L	Drake (1988a)
1988 (Wennington Marshes)	B	H		Plant (1988)
1989-1990 (Aveley & Wennington Marshes)	AB	H		Eversham (1990), Eversham & Greatorex-Davies (1989), Eversham <i>et al.</i> (1989)
1989 (Wennington Marshes North)	A			Kite (c.1991)
1990 (Aveley & Wennington Marshes)	AB	H	L	Drake (1990)

1990 (Vange, Fobbing, Pitsea, Bowers & Hadleigh Marshes)	B			Drake (1991b)
Review of data (Inner Thames Marshes SSSI)	B			Ball (1990)
1991 (Ramsey Marsh)	B	H		Kirby (1991b)
1993 (Fobbing Marshes)	A B	GH	L	Gibbs 1993)
1994 (Aveley Marshes)	A B	GH	L	Etheridge (1995)
11 Suffolk coast				
1983 (Sizewell)	A	H		Ranwell & Storeton-West (1983)
1987	A	GH I	L	Wolfe-Murphy <i>et al.</i> (1991)
1988	B	H	L	Drake (1989d)
1988-1989 (Sizewell)	A B	E F	L	Bioscan (UK) Ltd (1991)
1989 (Sizewell)	B	GH	L	Drake (1989a)
1990 (North Warren & Church Marshes)	A	E	L	Ausden (1990)
1992 (Minsmere)	A	H		Sibbett (1992a, 1992b)
1993 (Sizewell Belts)	A	E GH	L	Suffolk Wildlife Trust (1993)
12 Broadland				
1878-1889 (Ashby with Oby & Thurne)	A			Driscoll (1982e, 1995b)
1880-1990 (Buckenham)		D	K	Driscoll & Waterford (1994), Slater (1991), Waterford & Driscoll (1997)
1908-1909 (Northern part of Broadland)	A			Gurney (1908-1909)
1966 (Northern part of Broadland)	A	GH		Bye (1966)
1967 (Northern part of Broadland)	B C	H		Anon (1967)
1972 (Northern part of Broadland)	A B	H	L	Doarks (1990), Driscoll (1975b, 1976b, 1976c, 1978a, 1982e, 1995b, 1995c), Driscoll & Lees (1972a, 1972b, 1973a, 1973b)
1973 (Hemsby)	A B	6 H	L	Driscoll (1973c, 1975b, 1976b, 1976c), Harcombe & Driscoll 1973)
1973 (Stokesby)	A	H		Driscoll (1973a, 1975b, 1976b)
1973-1974 (Thurne catchment area)	A B	E F GH	L	Doarks (1990), Driscoll (1973b, 1975b, 1975d, 1976b, 1976c, 1976d, 1978a, 1981c, 1981f, 1981h, 1981i, 1983b, 1983c, 1984a, 1985, 1986b, 1986d), Driscoll & Lees (1974), Lees (1973)

1974 (Northern part of Broadland)	A B	E	H I	L	Doarks (1990), Driscoll (1974, 1975b, 1976b, 1976c, 1978a, 1981d, 1981g, 1981h, 1981i, 1982e, 1983d, 1995b, 1995c, 1997c, in prep. A), George (1997)
1975 (Northern part of Broadland)	A B		GH	L	Driscoll (1975a, 1982e, 1995b, 1995c, 1996c, 1997c, in prep. a), George (1997)
1976 (Northern part of Broadland)			G		Driscoll (1996c)
1977 (Thrigby)	A		H		Driscoll (1977a)
1977 (Wheatfen)	B				Driscoll (1982a, 1994a)
1978 (Southern part of Broadland)	A	E F		L	Jackson & Charter (1978a, 1978b, 1978c)
1978 (Strumpshaw)	A				Willis (1980)
1979 (Strumpshaw)	B		H		Willis (1980)
1980	A		H I	L	Doarks (1980a, 1980b, c.1981), Driscoll (1995b, 1995c), Kindleysides (1993b), O'Riordan & Doarks (1980), Southwood (1987)
1981 (Ludham)	A				Wright (1981)
1981 (Strumpshaw)	A		GH		Newbold & Blackburn (1981)
1981 (Yare valley)	A B		GH		Newbold & Palmer (1981)
1981-1983 (Horsey/Winterton)	A B	E F	GH	L	Driscoll (1981b, 1981e, 1981h, 1981i, 1982c, 1982d, 1983b, 1983c, 1984a, 1984b, 1984c, 1985, 1986b, 1986d)
1981-1984	A		GH		Doarks (1982, 1983a, 1983b, 1984a, 1984b, 1986)
1982 (Billockby)	A B		H		Driscoll (1982b)
1982 (Halvergate)	A		H		Wright (1982a)
1982 (Ludham)	A		H		Wright (1982b)
1982 (Upton)	A		H		Mountford (1982)
1982-1985 (Grazing marsh SSSIs)	A				Kindleysides (1993b), Timms (1982-1985)
1983 (Potter Heigham)	A				Driscoll (1994b, 1997c, in prep. a)
1983 (Thrigby)	A		H		Driscoll (1983a)
1983 (Upton)			G		Driscoll (1996b)
1985 (Potter Heigham)	A B				Driscoll (1997c, in prep. a)
1986 (Halvergate)	A B				Driscoll (1986a)
1986 (Halvergate)	A	E	H	L	Driscoll (1991), Kindleysides (1993b)

1986 (Halvergate Fleet)	A	E F G H I		Talks (1986)
1986 (Horsey)	A	E H		Hearn & Alexander (1989)
1986 (Ludham)	A			Southwood (1987)
1986 (Surlingham Church Marsh & Strumpshaw)	A			Jerram (1986)
1987 (Halvergate)	A			Anon (1987a), Kindleysides (1993b)
1987 (Halvergate)	A			Thomas (1987a)
1987 (Halvergate)	A		L	Thomas (1987b)
1987 (Strumpshaw)	A			Thomas (1987c)
1987 (Surlingham)	A			Tolhurst (1987)
1987 (Upper Waveney valley)	A		L	Hooton (1987)
1987-1988 (Berney Marshes)	A	G H I		Burgess (1988), Burgess & Evans (1990), Doarks & Leach (1990), Doarks <i>et al.</i> (1990), Doarks & Storer (1990)
1987-1994 (Broads ESA)	A	E H		ADAS (1996), MAFF (1991a, 1991b), Sherwood (1993)
1988 (Carlton Marshes)	A	H	L	Casey (1988)
1988 (Castle Marshes)	A	F H	L	Casey (1989)
1988-1989	A	G H I	L	Doarks (1990), Doarks & Driscoll (1994, 1997), Doarks & Leach (1990), Doarks <i>et al.</i> (1990), Doarks & Storer (1990), Driscoll (1995b, 1995c, 1997c, in prep.a), George (1990), George (1997), Kindleysides (1993a, 1993b), Moore & Austin (1997), Reid <i>et al.</i> (1989b)
1990 (Beccles)	A	H	L	Casey (1990)
1990 (Brograve & Eastfield Levels)	A			George (1990)
1990 (Heigham Holmes)	A	H		Grove <i>et al.</i> (1991)
1990 (Northern part of Broadland)		D	K	Slater (1991), Waterford & Driscoll (1992)
1991 (Halvergate, Ludham & Upton)	A	G H	L	Kindleysides (1993b), Tidswell & Soden (1992)
1991 (Ludham)	A	G		Dicks (1992)
1991 (Potter Heigham)	A B	H		Driscoll (1992, 1997c, in prep. a)
1991-1992 (Castle Marshes)	A B			Leyshon, Leyshon & Moore (1993)
1992 (Buckenham & Cantley)	A	H		Barrett & Watts (1992)
1992 (Halvergate Marshes)	A	G H	L	Kindleysides (1992, 1993b)

1992 (Upton)	A	GH I		Spencer (1993)
1993 (Berney Marshes)	A	H		Barrett (1993)
1993 (Buckenham & Cantley)	A	GH	L	Halshaw (1993)
1993 (Cantley)	A	GH		George (1997), Kindleysides (1993a, 1993c)
1994 (Cantley)	A	GH		George (1997), Kennison (1994)
1995 (Berney Marshes)	B	G		Eyre (1996)
1995 (Damgate Marsh)	A B		L	Doarks (1995a)
1995 (Ludham)	A B		L	Doarks (1995b)
1996	A B	H		Killeen & Willing (1997)
1996 (Cantley)	A	GH		George (1997), Harris <i>et al.</i> (1997)
1996 (Strumpshaw)	A B	H		Burton (1997)
1996 (Yare & Waveney valleys)	A	GH		Moore & Austin (1997)
1997	A	GH		Doarks & Driscoll (1997), Harris <i>et al.</i> (1997), Parmenter (1998)
1997	A B	GH		Willing & Killeen (1998)
1997? (Ebridge)	A			Parmenter (1997)
1997 (Horsey/Winterton)	A B	E F GH	L	Driscoll (1997b, in prep. b, in prep. c, on prep. d)
1997 (Potter Heigham)	A	GH		Driscoll (1997a, 1997c, in prep. a)
1997 (Waveney valley)	A B	GH		Jackson & Howlett (1999)
1998 (Ant valley)	A	GH		Parmenter (1998)
Reviews of ditch surveys in Broadland				Driscoll (1996a, 1999), Driscoll & Doarks (1997)

13 Norfolk (other than Broadland)

1975 (Holkham)	A B	E F GH I	L	Driscoll (1975c, 1976a, 1978b, 1978c, 1986c)
1976 (Old Buckenham)	A B			Driscoll (1976e)
1976 (Ringland)	A B			Driscoll (1976f)
1977-1986 (Methwold)	A	H		Barkham (1987)
1977 (Stoke Ferry)	A B			Driscoll (1977b)
1977 (Wensum valley)	A B	H		Driscoll (1981a)
1988 (North Norfolk coast)	A	GH I		Reid <i>et al.</i> (1989a)
1991 (Gressenhall)	A B			Driscoll (1995a)

14 Fenland

1968-?	A	GH		Mountford (1968-?)
1977 (Whittlesey Washes)	* * * * *	* * * * *		Hodgkin (1977)

1978 (Ouse Washes)	A	H		Cadbury <i>et al.</i> (1993, 1994), Grose & Allen (1978), Thomas <i>et al.</i> (1980, 1981)
1979 (Nene Washes)	A B	H		Newbold <i>et al.</i> (1979)
1984 (Nene Washes)	A	HI		Evans (1985)
1986 (Northern part of Fenland)	B	GH	J L	Foster <i>et al.</i> (1989)
1986-1989 (Swavesey)	A B	E F GH		Mountford (1986-1989)
1987 (Cross Drain, Langtoft Fen)	A			Drewett (1987a, 1987b)
1991? (Near Bourne)	* * * * *	* * * * *		Petts <i>et al.</i> (1991)
1991 (Bourne/Horbling area)	A	H	L	Sir William Halcrow & Partners Ltd. (1991, 1992)
1991-1995 (Chippenham Fen)	A B	H	L	Kirby (1992, 1993, 1994, 1995, 1996), Shaw <i>et al.</i> (1996)
1992 (Ouse Washes)	A	E F H	L	Cadbury <i>et al.</i> (1993, 1994)
15 Lincolnshire coast				
1988 (Saltfleetby/Theddlethorpe area)	B	GH		Thomas (1988)
16 Northamptonshire				
1984	A	GH I		Wright (1984)
1984 (Nassington)	A B	H		Palmer (1984c)
c.1984 (Nassington)	A			Anon (c.1984)
1985 (Nassington)	A	GH		Palmer 1985b)
17 Leicestershire				
1980 (Near Ratcliffe on Soar)	A B			Goddard (1981a)
1981 (Soar & Trent valleys)	A B	H		Goddard (1981b)
18 Thorne and Hatfield Moors				
1952-1973 (Idle valley)	A			Howitt & Howitt (1952-1973)
1955-1986 (Mother Drain)	B			Wood (1986)
1977	A B	H		Anon (1977)
1978	A B	H		Anon (1978)
1980 (Idle valley)	A	H	L	Page (1980a, 1980b)
1983 (Hatfield Chase area)	A	E GH	L	Bond (1983)
1983 (Idle valley)	A	E HI		Mountford (1983), Mountford & Sheail (1986)
1984 (Everton & Gringley Carrs)	A B	GH		Palmer (1984b)
1986 (Hatfield Chase)	A B			Wade (1987b)
1986 (Mother Drain)	A			Smith & Drewett (1986)

1986 (Mother Drain)	B			Wright (1986)
1986 (Hatfield Chase)	A	GHI		Bignall (1991), Malard (1989a, 1990), Wade & Wingfield (1987), Wade <i>et al.</i> (1986), Wingfield <i>et al.</i> (1988)
1987 (Hatfield Chase)	A	I	L	Bignall (1991), Wingfield (1987), Wingfield <i>et al.</i> (1988)
1987 (Hatfield Chase)		G		Mallard (1989a, 1990), Wingfield <i>et al.</i> (1988)
1989 (Hatfield Moors)	A	H	L	Dargie (1989)
1989 (Hatfield Chase)	AB	GH	J	Malard (1989a, 1989b, 1990)

19 Derwent valley

1986 (Derwent Ings)	AB	H	L	Gregory (1986)
1987 (Derwent Ings)	A	GHI	L	Birkinshaw (1991)

20 Durham

1966 (Bradbury & Morden Carrs)	A			Anon (1966)
1977 (Bradbury & Morden Carrs)	A			Bradshaw (1977), Doody (1977)
1984 (Bradbury & Morden Carrs)	A	H		Hopkins (1984)
1984 (Bradbury & Morden Carrs)	A		L	Newbold (1984)

21 Gilpin valley

1985-1986 (Lyth valley & Foulshaw Mosses)	AB	H	L	Drake (1991)
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22 Gloucestershire

1984 (Walmore Common)	AB	H	L	Palmer & Briggs (1984)
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23 Avon Levels

1982-1983	A	HI		Mountford & Sheail (1984b, 1985)
1983 (Gordano valley)	AB	H		Newbold (1983b)
1983 (Gordano valley & Kenn Moor)	B	GH	J L	Drake (1987a), Drake <i>et al.</i> (1984, 1985), Foster (1984)
1986 (Gordano valley)	A	GH		Wilson (1987a, 1987b)
1988 (Gordano valley)	AB	G		Palmer (1988)
1989 (Banwell Meadows, Kenn & Nailsea Moors)	B	H	L	Drake (1989c)
1989-1990 (Gordano valley)	A	GH		Wilson (1990, 1992)
1991	AB	H	L	Anderson <i>et al.</i> (1991)
1991 (Puxton)	A * * * * *			Bristol Ecological Consultants Ltd. (1991), Pollock <i>et al.</i> (1992a, 1992b)
1991-1992	A	GH	L	Pollock <i>et al.</i> (1992a, 1992b)
1992	AB	H	L	Anderson <i>et al.</i> (1992)

1993(Biddle Street & Puxton Moor)	A B	H	L	Anderson et al. (1994)
24 Somerset Levels				
1976	A		L	Bradford (1978), Seccombe (1977)
1976 (Shapwick)	A B	H	L	Newbold (1976)
1979	A B	H	L	Cooter <i>et al.</i> (1981), Palmer (1979a, 1979b, 1980, 1982a), Stubbs (1979)
1980	A B	H		Newbold & Palmer (1980)
1980 (North Moor area)	A	E F G H I		Palmer (1983), Raine (1980), Wolseley <i>et al.</i> (1984a, 1984b)
1981	B	G H		Armitage (1981), Palmer (1982a), Wolseley <i>et al.</i> (1984a, 1984b)
1982	A	G H I	L	Henderson (1985), Palmer (1983), Wolseley <i>et al.</i> (1984a, 1984b)
1982? (West Sedgemoor)	* * * * *			Brunt (c.1982)
1982-1983	A	H I		Mountford & Sheail (1984b, 1985), Palmer (1983), Wolseley <i>et al.</i> (1984a, 1984b)
1983	B	G H J	L	Drake (1987a), Drake <i>et al.</i> (1984, 1985), Foster (1983a, 1984)
1984	A B	G H		Newbold <i>et al.</i> (1984)
1984 (West Sedgemoor)	A	E F H		Henderson (1985)
1985 (Tealham & Tadham Moors)	A	H		Johnson (1986)
1985 (Westhay Moor)	B			Cropper (1985), Sheppard (1987)
1985 (Westhay Moor)	A			N. (1985)
1985 (Westhay & Tadham Moors)	B			Sheppard (1985)
1986 (Pawlett Hams)	A B	G H		(Palmer (1986d)
1987 (Westhay & Tadham Moors)	B	H	L	Drake (1987b, 1987c)
1987 (Westhay Moor)	B	H	L	Sheppard (1987)
1989 (Langmead & Curry Moor)	B	H	L	Drake (1989c)
1993 (Curry & Hay Moors)	A	H	L	Cox (1994)
1993 (West Sedgemoor)	A	H		Lovett (1994)
25 Devon				
1978 (Exminster Marshes)	* * * * *			King (1979)
1983 (Braunton Marsh)	B			Beer (1983)
1983 (Braunton Marsh)	B			Brown (1983)

1983 (Braunton Marsh)	A		GH		Newbold (1983a)
1983 (Braunton Marsh)	A				Parkinson (1983)
1987 (Braunton Marsh)	A		H	L	Wolseley (1988)
1987 (Exminster Marshes)	A		H		Amphlett (1988)
1988 (Exminster Marshes)	A		GHI	L	Leach <i>et al.</i> (1991)
1992 (Exminster Marshes)	A		H		Nicholson (1993)

26 Anglesey

1985 (Malltraeth Marsh)	A	E	GHI	L	Smith & Humphreys (1986)
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27 Gwent Levels

1973-1975	B		G		Wade & Scotter (c.1978)
1974-1975 (Goldcliff)	AB		GH		Marshall (1984)
1974-1976	AB		GHI		Wade (1977)
1976-1978	AB		GH	J	Clare (1979), Clare & Edwards (1983)
1981	AB				McLean (1982)
1982-1983	A		HI	L	Glading (1986b), Nature Conservancy Council. South Wales Region (1982, 1984)
1985	AB		GH	J L	Drake (1986b, 1987a, 1988c)
1991	AB		H	L	Gibbs (1991)

28 Pembrokeshire

1984	A	*	*	*	*	*	*	*	*	*	*	*	*	*	Mountford & Sheail (1984a)
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Table 2. Bibliography

This bibliography is arranged in alphabetical order of author. Most of the items listed are unpublished. In some cases there is no clear information about which organisation commissioned or produced an item, and several items lack a title and/or an author's name and/or a date. Wherever possible the missing information has been supplied from other sources. All such inferred information is contained within square brackets.

Each entry consists of three parts. The first part is a standard bibliographical reference. This is usually followed by a brief summary in round brackets. The final part indicates the geographical area of the survey (see Table 1 and Figure 1) and the location of the report (see Table 3).

ABRAHAM, F., ALLEN, S., HODGE, P. and WILLING, M. J. 1998 *A survey of the plants, water insects and molluscs of ditches adjacent to the River Arun between Pulborough and Climping, West Sussex, 1997*. Littlehampton: Arun District Council/Environment Agency. [Cited by WILLING, M. J. and KILLEEN, I. J. 1998 *The freshwater snail Anisus vorticulus in Suffolk, Norfolk and Essex*. [Peterborough]: English Nature. 85p. (English Nature research reports no. 287).]

West Sussex

NOT SEEN

ADAS 1996 *Botanical monitoring of dykes in the Broads ESA 1987-1994. Draft*. Unpublished report prepared for Ministry of Agriculture, Fisheries and Food. 75p.

(Review of the monitoring of the ditch flora within the Broads ESA, 1987-1994.)

Broadland

RJD, NEN.

AINLEY-WALKER, P. [1976] *A survey of the main plant communities of Sandwich Bay, Pegwell Bay and surrounding area*. Unpublished report prepared for Nature Conservancy Council. South East Region. 122p. + 6 maps.

(Botanical survey of the Sandwich Bay area, including numerous ditches, 1976.)

East Kent marshes

RJD, NEP.

ALLWRIGHT, R. 1987 *Land adjoining the River Brede. Surveyed 14.10.87. by Ruth Allwright*. Unpublished results of survey [carried out for Nature Conservancy Council]. 3p.

(Botanical survey of 6 ditches on the Brede Level, 1987.)

East Sussex

RJD, NEP.

AMPHLETT, A. 1988 *Exminster Marshes report 1987*. Unpublished report [prepared for Royal Society for the Protection of Birds]. 23p.

(Botanical survey of Exminster Marshes, including 14 ditches, 1987.)

Devon

RJD, NEO.

ANDERSON, M., HILL-COTTINGHAM, P. and DUFF, A. [G.] 1991 *Avon invertebrates survey*. Unpublished report prepared by Somerset Ecology Consultants Ltd. for English Nature. 36p.

(Survey of the aquatic fauna of 40 ditches on the Avon Levels and Moors, 1991.)

Avon Levels

RJD, NEP.

ANDERSON, M., HILL-COTTINGHAM, P. and DUFF, A. [G.] 1992 *Invertebrate survey of ditches on the Avon Levels and Moors 1992*. Unpublished report prepared by Somerset Ecology Consultants Ltd. for English Nature. 36p.

(Survey of the aquatic fauna of 30 ditches on the Avon Levels and Moors in 1992 and a review of Coleoptera records.)

Avon Levels

RJD.

ANDERSON, M., HILL-COTTINGHAM, P., SMITH, A. G. and DUFF, A. G. 1994 *Invertebrate survey of ditches on the Avon Levels and Moors*. Unpublished report prepared by Somerset Ecology Consultants Ltd. for English Nature. South West Region. 34p.

(Survey of the aquatic fauna of 14 ditches in the Biddle Street and Puxton areas in 1993 and a review of invertebrate records from the Avon Levels and Moors.)

Avon Levels

RJD, NET.

ANON [1966] [*Survey of ditches at Bradbury and Morden Carrs, Durham, June-July 1966.*] Unpublished results of survey. 7p.

(Botanical survey of 6 ditches at Bradbury and Morden Carrs, 1966.)

Durham

RJD, NEP.

ANON [1967] *June-July 1967 plankton survey of certain dykes in the Norfolk Broads area*. Unpublished report. 47p.

(Survey of zooplankton and phytoplankton in a few ditches in the northern part of Broadland in 1967 and an attempt to relate the plankton to ditch cleaning and saline infiltration.)

Broadland

RJD, NEN.

ANON 1977 [*Survey of c.1300 biological sites within Nottinghamshire.*] Unpublished results of survey [carried out for Natural History Museum, Nottingham and Nottinghamshire Naturalists Trust].

(Biological survey of Nottinghamshire, including numerous ditches, 1977.)

Thorne and Hatfield Moors

NB.

ANON 1978 [*Survey of c.300 'elite' biological sites within Nottinghamshire.*] Unpublished results of survey [carried out for Natural History Museum, Nottingham and Nottinghamshire Naturalists Trust].

(Biological survey of Nottinghamshire, including numerous ditches, 1978.)

Thorne and Hatfield Moors

NB.

ANON [1983] *Proposed drainage scheme at Courtssole Farm. Comments on the fields which it is proposed to drain. Survey of ditches on land owned by W. Filmer & Sons on Cliffe Marshes*. Unpublished report [prepared for Nature Conservancy Council]. 5p. [Incomplete?, probably lacks map.]

(Botanical survey of 13 ditches at Cliffe Marshes, probably in 1983.)

North Kent marshes

RJD, NEP.

- ANON [c.1984] *Nassington dykes spp. list*. Unpublished results of survey. 6p.
 (Botanical survey of 7 ditches at Nassington, c.1984.)
 Northamptonshire RJD, NEP.
- ANON [1987a] *Halvergate Marshes S.S.S.I. Dyke survey 1987 29.5 - 3.9.87*. Unpublished report [prepared for Nature Conservancy Council]. 3p.
 (Botanical survey of 25 ditches at Halvergate Marshes, 1987.)
 Broadland RJD, NEN.
- ANON [1987?b] *Pett Levels botanical survey*. Unpublished results of survey [carried out for Nature Conservancy Council]. 54p.
 (Botanical survey of 152 ditches on the Pett Levels, probably in 1987.)
 East Sussex RJD, NEP.
- ANON [1988?] [*Survey of ditches at Offham Marshes.*] Unpublished report. 3p. [Extract from unidentified report.]
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 East Sussex RJD, NEP.
- ARMITAGE, P. [D.] 1981 *A survey of the aquatic invertebrates of the Somerset Levels, August 13-14, 1981*. Unpublished report prepared for Nature Conservancy Council by Institute of Freshwater Ecology. River Laboratory. 17p.
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 Somerset Levels RJD, NEP.
- AUSDEN, M. 1990 *NVC vegetation survey of North Warren RSPB Reserve*. Unpublished report prepared for Royal Society for the Protection of Birds by Suffolk Wildlife Trust. 70p. [Incomplete, lacks appendices 2 and 3.]
 (Botanical survey of North Warren and Church Marshes, including ditches, 1990.)
 Suffolk Coast RJD, RSPB.
- AVEY, G. S. 1995 *A study to determine the effects of iron ochre precipitates on the flora and fauna of marsh ditches*. Unpublished [undergraduate project, University of East Anglia]. 77p.
 (Biological survey of ditches (123 sample sites) on the north Kent coast in 1994 and an investigation of the ecological effects of ochre.)
 North Kent marshes RJD.
- BALL, S. G. 1990 *Department of Transport A13 improvements. Ferry Lane to London Road section. Proof of evidence by Stuart G. Ball B.A., Ph.D. Nature Conservancy Council*. Unpublished report prepared for Nature Conservancy Council. 2 vols. + responses to questions.
 (Review of invertebrate records, including many from ditches, from the Inner Thames Marshes SSSI.)
 Essex coast RJD.

BARKHAM, J. [P.] [1987] Management of drainage dykes and ditches Catsholme Farm, Norfolk. In: Matthews, R. (ed.) [1987] *Conservation monitoring and management. A report on the monitoring and management of wildlife habitats on demonstration farms*. Cheltenham: Countryside Commission. pp. 27-33. (CCP 231).

(Study of the effects of ditch management on the ditch vegetation at Catsholme Farm, Norfolk, between 1977 and 1986.)

Norfolk (other than Broadland) RJD.

BARRETT, D. A. 1993 [*Survey of dykes at Berney Marshes, 1993.*] Unpublished results of survey carried out for Royal Society for the Protection of Birds.

(Botanical survey of c.20 ditches at Berney Marshes, 1993.)

Broadland NOT SEEN.

BARRETT, D. A. and WATTS, C. 1992 [*Survey of dykes at Buckenham and Cantley, 1992.*] Unpublished results of survey carried out for Royal Society for the Protection of Birds.

(Botanical survey of c.20 ditches at Buckenham and Cantley, 1992.)

Broadland NOT SEEN.

BARTER, G. 1978a *A survey of the dyke flora of the lower Stour valley, Kent*. Unpublished report prepared for Nature Conservancy Council. South East Region. 87p.

(Botanical survey of a large number of ditches in the lower Stour valley, 1978.)

East Kent marshes RJD, NEP.

[BARTER, G.] [1987b] *Survey of the dykes of the lower Stour valley: provisional report*. Unpublished report [prepared for Nature Conservancy Council. South East Region]. 48p.

(Botanical survey of a large number of dykes in the lower Stour valley, 1978.)

East Kent marshes RJD, NEP.

BEER, T. [1983] *Braunton Marsh survey, 1983. Odonata species*. Unpublished report. 1p.

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Devon RJD, NEP.

BELDEN, P. 1987 *Pevensy Levels dragonflies*. Unpublished report prepared for Nature Conservancy Council and East Sussex County Council. 61p.

(Survey of adult Odonata on the Pevensy Levels, 1986.)

Pevensy Levels RJD, NEP.

BIGNALL, M. R. 1991 *The nature conservation management of ditches on Hatfield Chase [sic]*. Unpublished report prepared for National Rivers Authority. 62p.

(Assessment of the ditches and an investigation of ditch management at Hatfield Chase.)

Thorne and Hatfield Moors RJD, NEY.

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supplementary figures. (Report no OX/190/B). [Incomplete, report lacks pp. 55, 77-89.]

(Ecological survey of the proposed Sizewell 'C' site, including c.100 ditches, 1988-1989.)

Suffolk coast

RJD, NEB.

BIRKINSHAW, C. R. 1991 *Derwent Ings ditch vegetation survey, 1987. A description of the ditch vegetation of the lower Derwent valley, covering Derwent Ings SSSI, Melbourne and Thornton Ings SSSI, Newton Mask SSSI and Brighton Meadows SSSI.* Unpublished report prepared for Nature Conservancy Council. England Field Unit. 94p. (EFU project no. 47).

(Botanical survey of 177 ditches in the lower Derwent valley in 1987 and a classification of the ditch vegetation.)

Derwent valley

RJD, NEP, NEY.

[BISHOP] 1974-1976 [*Amberley Wild Brooks ditch survey, 1974-1976.*] Unpublished results of survey. 4p. [RJD copy bound with covering letter, etc.]

(Botanical survey of 141 ditches at Amberley Wild Brooks, 1974-1976.)

West Sussex

RJD, NEP.

BOND, S. M. 1983 *A botanical [sic] survey of dykes in the Hatfield area of South Yorkshire.* Unpublished report prepared for Nature Conservancy Council. 256p.

(Botanical survey of 244 ditches in the Hatfield Chase area, 1983.)

Thorne and Hatfield Moors

RJD.

BRADFORD, R. 1978 *A report on the botanical evaluation of the meadows and other nature conservation interests in the Somerset Levels 1977-78.* Unpublished report prepared for Nature Conservancy Council. 109p.

(Summary of botanical and ornithological surveys of meadows and ditches on the Somerset Levels, 1976-1978.)

Somerset Levels

RJD.

BRADSHAW 1977 [*Survey of ditches at Bradbury and Morden Carrs, Durham, 1977.*]

Unpublished results of survey carried out for Nature Conservancy Council. [Cited by DOODY, J. P. 1977 *Bradbury and Morden Carrs.* Unpublished report [prepared for Nature Conservancy Council]. 6p. + 1 map.]

Durham

`NOT SEEN.

BRISTOL ECOLOGICAL CONSULTANTS LTD. 1991 *Ecological profile of the Puxton Moor site.* Unpublished report. [Cited by POLLOCK, K., BRADFORD, R. and CHRISTIAN, S. 1992b *A botanical survey of ditches on the Avon Levels and Moors 1991 and 1992.* Unpublished report prepared for English Nature. South West Region. 149p.]

Avon Levels

NOT SEEN.

BROWN, A. L. 1983 *Survey of aquatic fauna in two ditches transecting Braunton Marsh.*

Unpublished report prepared for Nature Conservancy Council. 2p. [To be used with the map in P[ARKINSON], M. 1983 *Report on Braunton Marsh, July 1983.* Unpublished report prepared for Nature Conservancy Council. 9p.] [RJD copy bound with copy of map.]

(Survey of the aquatic fauna of 2 ditches at Braunton Marsh, 1983.)

Devon

RJD, NEO, NEP.

BRUNT, R. P. M. [c.1982] *West Sedgemoor vegetation survey 1982*. Unpublished report.

Somerset Levels

NOT SEEN.

BUCKLE, O. 1977 *Amberley Wild Brooks. Survey by Oliver Buckle 1977*. Unpublished report prepared for Nature Conservancy Council. South East Region. 15p.

(Review of plant records, including the ditch flora, from Amberley Wild Brooks.)

West Sussex

RJD, NEP.

BURGESS, N. [D.] 1988 *Berney Marshes Reserve: vegetation survey botanical site evaluation and management prescriptions*. Unpublished report prepared for Royal Society for the Protection of Birds. 131p. [Incomplete, lacks some figures.]

(Botanical survey of Berney Marshes, including 150 ditches, in 1987 and a classification of the ditch vegetation.)

Broadland

RJD, NEN.

BURGESS, N. D. and EVANS, C. E. 1990 Ditch-flora of the Halvergate Marshes. *Transactions of the Norfolk and Norwich Naturalists' Society* **28**(5), 341-350.

(Classification of the ditch vegetation at Berney Marshes, based on 150 sample sites visited in 1987.)

Broadland

RJD, NEN, NHN.

BURTON, S. 1997 *An investigation into the relationship between aquatic flora and the distribution of larval dragonflies (Odonata: Anisoptera) at Strumpshaw Fen*. Unpublished undergraduate project, City College, Norwich. 67p.

(Biological survey of 2 ditches at Strumpshaw, 1996.)

Broadland

RJD.

BYE, V. [J.] [1966] *Chemical analyses of certain dykes and broads in the valleys of the Rivers Bure, Yare and Thurne. A report on work carried out during the summer of 1966*. Unpublished [undergraduate project], University of East Anglia. 22p.

(Botanical survey of a few ditches in the northern part of Broadland in 1966 and an attempt to relate the ditch vegetation to water chemistry.)

Broadland

RJD, NEN.

BYRNE, S. and PALMER, M. [A.] 1991 *A review of monitoring on Amberley Wild Brooks, Sussex*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 116p. (EFU project no. 123).

(Review of the monitoring of ditch plants at Amberley Wild Brooks, up until 1988.)

West Sussex

RJD, NEP.

CADBURY, C. J., HALSHAW, L. and TIDSWELL, R. 1993 *Status and management of the ditch and pool flora of the Ouse Washes 1992: comparisons with 1978*. Unpublished report prepared for English Nature, Royal Society for the Protection of Birds and Wildfowl and Wetlands Trust. 195p.

+ 4 overlays.

(Detailed account and atlas of the ditch flora of the Ouse Washes, based on visits to 706 sample sites in 1992, and a comparison with the results of a survey carried out in 1978.)

Fenland

RJD, RSPB.

CADBURY, [C.] J., HALSHAW, L. and TIDSWELL, R. 1994 The ditch flora of the Ouse Washes (Cambridgeshire and West Norfolk): a comparison between 1978 and 1992. *Nature in Cambridgeshire* no. 36, 17-33.

(Brief account of ditch vegetation in the Ouse Washes, 1978-1992.)

P.

CARR, R. 1982 [*Romney Marsh survey, 28 June-2 July 1982.*] Unpublished results of survey [carried out for Nature [Conservancy Council]. [Later included in PALMER, M. [A.] [1985?] *Survey of the aquatic invertebrates of the Walland Marsh area of Romney Marsh 1982.* Unpublished report prepared for Nature Conservancy Council. Chief Scientist Directorate.. 43p.]

(Survey of the aquatic Coleoptera in 11 ditches on Romney Marsh, 1982.)

Romney Marsh

NOT SEEN

CARR, R. [1983] *A survey of the aquatic Coleoptera of the Pevensey Levels.* Unpublished report [prepared for Nature Conservancy Council]. 24p.

(Survey of the aquatic Coleoptera, including 28 ditches, on the Pevensey Levels, 1983.)

Pevensey Levels

RJD, NEP.

CARR, R. 1985 Aquatic Coleoptera on the Pevensey Levels. *Balfour-Browne Club Newsletter* no. 32, 7-8.

(List of the aquatic Coleoptera recorded from ditches on the Pevensey Levels, 1983.)

Pevensey Levels

RJD, NHN.

CARR, R. 1986 *A survey of aquatic Coleoptera of the Dartford and Crayford Marshes.* Unpublished report prepared for Nature Conservancy Council. 7p.

(Survey of the aquatic Coleoptera in several ditches at Crayford and Dartford Marshes, 1986.)

North Kent marshes

RJD, NEP.

CARR, R. 1987 Water beetles of the Dartford & Crayford Marshes. *Balfour-Browne Club Newsletter* no. 39, 6-7.

(Lists of the aquatic Coleoptera recorded from Crayford and Dartford Marshes, mainly from ditches, 1986.)

North Kent marshes

RJD, NHN.

CASEY, D. [1988] *A botanical survey of Carlton Marshes Nature Reserve, Suffolk July, 1988.* Unpublished report [prepared for Suffolk Wildlife Trust]. 73p.

(Botanical survey of Carlton Marshes, including 13 ditches, in 1988, with management recommendations.)

Broadland

RJD, SWT.

CASEY, D. [1989] *A survey of the dykes of Castle Marshes, Suffolk July 1988*. Unpublished report [prepared for Suffolk Wildlife Trust]. 45p.

(Botanical survey of 30 ditches at Castle Marshes, 1988-1989.)

Broadland

RJD, SWT.

CASEY, D. 1990 *A wildlife survey of Beccles Marshes*. Unpublished report prepared for Beccles Town Council by Suffolk Wildlife Trust. 74p.

(Botanical survey of 27 ditches at Beccles Marshes, 1990.)

Broadland

RJD, SWT.

CHANDLER, K. A. 1979 *A study of the ecology and management of the Pevensey Levels, East Sussex*. Unpublished M.Sc. thesis, Imperial College of Science and Technology, London. [Cited by GLADING, P. R. 1986 *A botanical survey of ditches on the Pevensey Levels*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 82p. (EFU project no. 25).]

Pevensey Levels

NOT SEEN.

CHARMAN, K. 1980 *North Kent marshes survey*. Unpublished report [prepared for Nature Conservancy Council]. 2p.

(Brief summary of the results of a botanical survey of 130 ditches on the north Kent coast, 1980.)

North Kent marshes

RJD, NEP.

CHARMAN, K. 1981 *A botanical survey of ditches in selected areas of the north Kent marshes*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 188p. (EFU project no. 14).

(Botanical survey of 165 ditches on the north Kent coast in 1980 and a classification of the ditch vegetation.)

North Kent marshes

RJD, NEP.

CHARMAN, K. 1985 *Pevensey Levels report*. Unpublished report prepared for Nature Conservancy Council. [Cited by BELDEN, P. 1987 *Pevensey Levels dragonflies*. Unpublished report prepared for Nature Conservancy Council and East Sussex County Council.. 61p.]

Pevensey Levels

CHARMAN, K., PALMER, M. [A.] and PHILP, E. G. 1985 Survey of aquatic habitats in the north Kent marshes. *Transactions of the Kent Field Club* **10**(1), 19-32.

(Biological survey of 165 ditches on the north Kent coast, 1980-1981.)

North Kent marshes

RJD, NEP.

CHRIS BLANDFORD ASSOCIATES 1992 *Ecological survey of East Guildford in connection with A259 Rye bypass*. [Cited by WILLIAMS, P., BANKS, B., CAMERON, R. and COOKE, R. [1994] *Ditch monitoring at Walland Marsh SSSI 1993/4*. [Peterborough]: English Nature 127p. (English Nature Research Reports no. 132).]

Romney Marsh

NOT SEEN.

CLARE, P. 1979 *The distribution of aquatic macroinvertebrates in the Gwent Levels*. Unpublished Ph.D. thesis, University of Wales Institute of Science and Technology. 322p. [Incomplete, lacks several figures.]

(Survey of the aquatic fauna of 60 ditches on the Gwent Levels in 1976-1978 and a classification of the ditch fauna.)

Gwent Levels

RJD, NEP.

CLARE, P. and EDWARDS, R. W. 1983 The macro-invertebrate fauna of the drainage channels of the Gwent Levels, South Wales. *Freshwater Biology* **13**(3), 205-225.

(Survey of the aquatic fauna of 60 ditches on the Gwent Levels in 1976 and a classification of the ditch fauna.)

Gwent Levels

RJD, NEP.

COOTER, J., CROPPER, R., HECKFORD, R. [G.], MCLEAN, I. [F. G.], PALMER, M. [A.] and STUBBS, A. [E.] 1981 *A survey of the invertebrates of the Somerset Levels June 1979*. Unpublished report prepared for Nature Conservancy Council. 72p. (CST report no. 324).

(Biological survey of the Somerset Levels, including ditches, 1979.)

Somerset Levels

RJD, NEP.

COX, W. 1994 *A botanical survey of ditches Curry and Hay Moors SSSI, Somerset, 1993*. Unpublished report prepared for English Nature. South West Region, 129p.

(Detailed account and atlas of the ditch flora at Curry and Hay Moors, based on 311 sample sites visited in 1993.)

Somerset Levels

RJD, NET.

CROPPER, R. [1985?] [*Invertebrate fauna of ditches at Westhay Moor.*] Unpublished results of survey. [Species list later included in: SHEPPARD, D. A. 1987 *An invertebrate survey of selected ditches on Westhay Moor SSSI*. Unpublished report [prepared for Nature Conservancy Council]. 26p.]

(Survey of the aquatic fauna of ditches at Westhay Moor, 1985.)

Somerset Levels

NOT SEEN.

DARGIE, T. C. D. 1989 *Hatfield Moor SSSI drains survey 1989. A baseline ecological study*. Unpublished report prepared for Nature Conservancy Council. 60p.

(Botanical survey of 16 ditches at Hatfield Moor, 1989.)

Thorne and Hatfield Moors

RJD.

DICKS, R. [1992] *Salinisation and its adverse effects on conservation of traditional Norfolk marshland*. Unpublished [undergraduate project]. 50p.

(Botanical survey of 36 ditches at Ludham Marshes in 1991 and an attempt to relate the ditch vegetation to salinity.)

Broadland

RJD, NEN.

DOARKS, C. 1980a *Botanical survey of marsh dykes in Broadland*. Norwich: Broads Authority.

52p. (BARS 2).

(Botanical survey of 795 ditches in Broadland in 1980 and an attempt to classify the ditch vegetation and relate it to environmental factors.)

Broadland

RJD, NEN.

[DOARKS, C.] 1980b [*Survey of dykes in Broadland, 1980.*] Unpublished results of survey [carried out for the Broads Authority]. 168p.

(Botanical survey of 795 ditches in Broadland, 1980.)

Broadland

RJD.

DOARKS, C.] [c.1981] *Botanical survey of marsh dykes in Broadland. Supplementary report.* Unpublished report [prepared for Broads Authority]. 2 versions: 40p. (without maps) and 76p. (with maps).

(Botanical survey of 795 ditches in Broadland, 1980.)

Broadland

RJD, NEN.

[DOARKS, C.] [1982] [*Management of Broadland marsh dykes. Draft interim report.*] Unpublished report [prepared for Broads Authority]. 62p.

(Botanical survey of 280 ditches in Broadland in 1981-1982 and an attempt to relate the ditch vegetation to environmental factors.)

Broadland

RJD, NEN.

DOARKS, C. 1983a *The environment and flora of marsh dykes in Broadland.* Unpublished report prepared for Broads Authority. 99p.

(Botanical survey of 280 ditches in Broadland in 1981-1982 and an attempt to relate the ditch vegetation to environmental factors.)

Broadland

RJD, NEN.

DOARKS, C. [1983b] *The management of marsh dykes in Broadland. A progress report.* Unpublished report [prepared for Broads Authority]. 6p.

(Brief notes about the factors thought to influence the ditch vegetation in Broadland.)

Broadland

RJD, NEN.

DOARKS, C. 1984a *The environment and flora of marsh dykes in Broadland.* Unpublished report prepared for Broads Authority. 85p.

(Botanical survey of 280 ditches in Broadland in 1981-1982 and an attempt to relate the ditch vegetation to environmental factors.)

Broadland

RJD, NEN.

DOARKS, C. 1984b *A study of marsh dykes in Broadland.* Norwich: Broads Authority. 136p. (BARS 9). [Published version lacks Appendix 2, maps 1-4.]

(Botanical survey of 280 ditches in Broadland in 1981-1982 and an attempt to relate the ditch vegetation to environmental factors, partly based on a management experiment, 1983-1984.)

Broadland

RJD, NEN.

DOARKS, C. 1986 *Ecology and management of marsh dykes in Broadland*. Unpublished M.Phil. thesis, University of East Anglia. 114p.

(Botanical survey of 280 ditches in Broadland in 1981-1982 and an attempt to relate the ditch vegetation to environmental factors.)

Broadland

RJD, CD.

DOARKS, C. 1990 *Changes in the flora of grazing marsh dykes in Broadland, between 1972-74 and 1988-89*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 51p. (EFU project no. 76).

(Review of changes in the ditch vegetation in Broadland between 1972-1974 and 1988-1989 and possible causes.)

Broadland

RJD, NEN, NEP, NHN.

DOARKS, C. 1995a *Botanical survey of the marsh dykes at Damgate Marsh, Acle SSSI*. Unpublished report prepared for English Nature. Norfolk Team. 7p.

(Botanical survey of several ditches at Damgate Marshes, Acle, 1995.)

Broadland

RJD, NEN.

DOARKS, C. 1995b *Botanical survey of the marsh dykes at Ludham Marshes NNR*. Unpublished report prepared for English Nature. Norfolk Team. 10p.

(Botanical survey of several ditches at Ludham Marshes, 1995.)

Broadland

RJD, NEN.

DOARKS, C. and DRISCOLL, R. J. [1994] *Changes in the aquatic vegetation in grazing marsh dykes in Broadland, England between 1972-74 and 1988-89*. [Paper presented at the 19th Eurosite European Seminar *The management of water levels in and around conservation areas* held at Zwartluis, Netherlands, 29 May - 1 June 1994.] 27p.

(Review of changes in the ditch vegetation in Broadland between 1972-1974 and 1988-1989 and possible causes.)

Broadland

RJD.

DOARKS, C. and DRISCOLL, R. J. [1997] *Changes in the aquatic vegetation of Broadland dykes between 1972-74 and 1988-89*. [Revised version of paper presented at the *Nature conservation and the management of drainage system habitat* symposium held at Nottingham University, 23-25 September 1993.] 30p.

(Review of changes in the ditch vegetation in Broadland between 1972-1974 and 1988-1989 and possible causes.)

Broadland

RJD.

DOARKS, C. and LEACH, S. J. 1990 *A classification of grazing marsh dyke vegetation in Broadland*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 137p. (EFU project no. 76).

(Classification of the ditch vegetation in Broadland, including 2834 sample sites visited in 1987-1989.)

Broadland

RJD, NEN, NEP, NHN.

DOARKS, C., LEACH, S. J., STORER, J., REID, S. A. J., NEWLANDS, C. and KENNISON, G. C. B. 1990 *An atlas of the flora of grazing marsh dykes in Broadland*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 185p. (EFU project no. 76).

(Atlas of ditch plants in Broadland, based on 2834 sample sites visited in 1987-1989.)

Broadland

RJD, NEN, NEP, NHN.

DOARKS, C. and STORER, J. 1990 *A botanical survey and evaluation of grazing marsh dyke systems in Broadland, 1988-89*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 68p. (EFU project no. 76).

(Evaluation of the ditch vegetation in Broadland, based on 2834 sample sites visited in 1987-1989.)

Broadland

RJD, NEN, NEP, NHN.

DOODY, J. P. 1977 *Bradbury and Morden Carrs*. Unpublished report [prepared for Nature Conservancy Council]. 6p. + 1 map. [Incomplete, lacks appendix.]

(Summary of the results of a botanical survey of 9 ditches at Bradbury and Morden Carrs, 1977.)

Durham

RJD, NEP.

DRAKE, C. M. 1986a *Entomological survey of the main sites affected by the proposals to construct a Channel tunnel*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 77p. (EFU project no. 45a).

(Biological survey of 6 ditches near South Willesborough, 1986.)

Kent

RJD, NEP.

DRAKE, C. M. 1986b *A survey of the invertebrates of the Gwent Levels 1985*. Peterborough: Nature Conservancy Council. 227p. (Contract surveys no. 1).

(Biological survey of 152 ditches on the Gwent Levels in 1985 and a classification of the ditch fauna.)

Gwent Levels

RJD, NEP.

DRAKE, C. M. 1987a *Dragonflies on the Gwent and Somerset Levels and Moors*. *Journal of the British Dragonfly Society* 3(1), 1-4.

(Survey of the Odonata in 395 ditches on the Avon, Somerset and Gwent Levels, 1983-1985.)

Avon Levels, Somerset Levels, Gwent Levels

RJD, NEP.

DRAKE, C. M. 1987b *Survey of aquatic invertebrates on Westhay Moor, Somerset, October 1987*. Unpublished report [prepared for Nature Conservancy Council]. 7p.

(Survey of the aquatic fauna of 3 ditches at Westhay Moor, 1987.)

Somerset Levels

RJD.

[DRAKE, C. M.] 1987c [Survey of rhynes on Westhay Moor, 20 October 1987.] Unpublished results of survey [carried out for Nature Conservancy Council]. 19p.

(Survey of the aquatic fauna of a few ditches at Westhay and Tadham Moors, 1987.)

Somerset Levels

RJD.

[Includes map of Holme Fen!]

DRAKE, C. M. 1988a *Aquatic invertebrate survey of Inner Thames Marshes, 1988*. Unpublished report prepared for Nature Conservancy Council. 7p.

(Survey of the aquatic fauna of 15 ditches at Rainham and Wennington, 1988.)

Essex coast

RJD.

DRAKE, C. M. 1988b *A survey of the aquatic invertebrates of the Essex grazing marshes*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 129p. (EFU project no. 50a).

(Survey of the aquatic fauna of 113 ditches in Essex, 1987.)

Essex coast

RJD, NEP.

DRAKE, [C.] M. 1988c *Water beetles from the Gwent Levels, Wales. Balfour-Browne Club Newsletter* no. 43, 13-15.

(List of the aquatic Coleoptera recorded from 152 ditches on the Gwent Levels, 1985.)

Gwent Levels

RJD, NHN.

DRAKE, C. M. 1989a *A brief survey of the aquatic invertebrates in the vicinity of the Sizewell Power Station 1989*. Unpublished report [prepared for Nature Conservancy Council. England Field Unit]. 15p. ([EFU project no. 112]).

(Survey of the aquatic fauna of 12 ditches near Sizewell Power Station, 1989.)

Suffolk coast

RJD, NEP.

DRAKE, [C.] M. 1989b *The Lewes Brooks. A brief survey of the invertebrates and drainage of the eastern SSSI*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 18p. (EFU project no. 106).

(Survey of the aquatic fauna of 52 ditches at Lewes Brooks, 1989.)

East Sussex

RJD, NEP.

DRAKE, C. M. 1989c *Somerset and Avon Levels aquatic invertebrate survey, 1989*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 68p. (EFU project no. 107).

(Survey of the aquatic fauna of 46 ditches on the Avon and Somerset Levels, 1989.)

Avon Levels, Somerset Levels

RJD, NEP.

DRAKE, C. M. 1989d *A survey of the aquatic invertebrates of the Suffolk grazing marshes*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 83p. (EFU project no. 50b).

(Survey of the aquatic fauna of 73 ditches in Suffolk, 1988.)

Suffolk coast

RJD, NEP.

DRAKE, C. M. 1990a *Monitoring the invertebrate fauna of managed ditches on Wennington*

Marshes, Inner Thames Estuary SSSI. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 12p. (EFU project no. 130).

(Biological survey of 13 ditches at Aveley and Wennington Marshes, 1990.)

Essex coast

RJD, NEL, NEP.

DRAKE, C. M. 1990b Records of larval *Lestes dryas* Kirby in Essex during 1987. *Journal of the British Dragonfly Society* 6(2), 34-41.

(Several records of *Lestes dryas* from ditches in Essex, 1987.)

Essex coast

RJD.

DRAKE, C. M. 1991a *A brief survey of the aquatic invertebrates of the drainage ditches of the grazing marshes of the Lyth valley and Foulshaw Mosses*. Unpublished report prepared for English Nature. 12p.

(Biological survey of 15 ditches in the Lyth valley and Foulshaw Mosses, 1985-1986.)

Gilpin valley

RJD.

DRAKE, C. M. 1991b The condition of *Lestes dryas* Kirby larval populations in some Essex grazing marshes in May 1990. *Journal of the British Dragonfly Society* 7(1), 10-17.

(Survey of *Lestes dryas* at Vange, Fobbing, Pitsea, Bowers and Hadleigh Marshes, 1990.)

Essex marshes

RJD.

DRAKE, C. M., FOSTER, A. P. and PALMER, M. A. 1984 *A survey of the invertebrates of the Somerset Levels and Moors*. Unpublished report prepared for Nature Conservancy Council. Chief Scientist's Team. 354p. [Later published as DRAKE, C. M., FOSTER, A. P. and PALMER, M. A. 1985 *A survey of the invertebrates of the Somerset Levels and Moors*. [Peterborough: Nature Conservancy Council]. 8 microfiches. (CSD report no. 572).]

(Survey of the invertebrate fauna of the Somerset and Avon Levels, including 243 samples from 226 ditches sampled in 1983, and a classification of the ditch fauna based on 110 sample sites.)

Avon Levels, Somerset Levels

RJD, NEP.

DRAKE, C. M., FOSTER, A. P. and PALMER, M. A. 1985 *A survey of the invertebrates of the Somerset Levels and Moors*. [Peterborough: Nature Conservancy Council]. 8 microfiches. (CSD report no. 572).

(Survey of the invertebrate fauna of the Somerset and Avon Levels, including 243 samples from 226 ditches sampled in 1983, and a classification of the ditch fauna based on 110 samples sites.)

Avon Levels, Somerset Levels

RJD.

DREWETT, H. 1987a [Survey of Cross Drain, Langtoft Fen, 14 July 1987.] Unpublished results of survey [carried out for Nature Conservancy Council]. 2 record sheets + 1 map.

(Botanical survey of the Cross Drain, 1987.)

Fenland

RJD, NEP.

DREWETT, H. 1987b [Survey of Cross Drain, Langtoft Fen, 19 August 1987.] Unpublished results of survey [carried out for Nature Conservancy Council]. 3 record sheets + 1 map.

(Botanical survey of 3 stretches of the Cross Drain, 1987.)

Fenland

RJD, NEP.

DRISCOLL, R. J. 1973a [*Broadland Dyke Survey, 1973. Survey of a dyke at Stokesby.*] Unpublished results of survey. 1 record sheet.

(Botanical survey of a ditch at Stokesby, 1973.)

Broadland

RJD.

DRISCOLL, R. J. 1973b [*Broadland Dyke Survey, 1973. Survey of dykes in the Thurne catchment area.*] Unpublished results of a survey [carried out for Nature Conservancy Council]. 150 record sheets.

(Biological survey of 150 ditches in the Thurne catchment area, 1973.)

Broadland

RJD.

DRISCOLL, R. J. 1973c *A survey of the aquatic macrophyte flora and aquatic vertebrate and invertebrate fauna in drainage dykes at Hemsby, Norfolk, carried out by David J. Harcombe and Robert J. Driscoll, summer 1973.* Unpublished report. 13p.

(Biological survey of 12 ditches at Hemsby, 1973.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1974 [*Broadland Dyke Survey, 1974.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 515 record sheets.

(Biological survey of 515 ditches in the northern part of Broadland, 1974.)

Broadland

RJD.

DRISCOLL, R. J. 1975a [*Broadland dyke survey, 1975.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 188 record sheets.

(Biological survey of 188 ditches in the northern part of Broadland, 1975.)

Broadland

RJD.

DRISCOLL, R. J. 1975b *Distribution maps of aquatic macrophytes and bryophytes recorded in drainage dykes in Broadland, 1972-1974.* Unpublished report prepared for Nature Conservancy Council. 201p [Later included in DRISCOLL, R. J. 1976 *Broadland Dykes Survey (maps)*. [Banbury]: Nature Conservancy Council. 8 microfiches. (CST report no. 139).]

(Distribution maps of the aquatic flora of ditches in the northern part of Broadland, based on 982 visits to 892 sample sites in 1972-1974.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1975c [*Holkham NNR dyke survey, 1975.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 38 record sheets.

(Biological survey of 38 ditches at Holkham, 1975.)

Norfolk (other than Broadland)

RJD.

DRISCOLL, R. J. 1975d *The Thurne catchment area: supplement.* Unpublished report [prepared

for Nature Conservancy Council]. 66p.

(Survey of the salinity of ditch water in the Thurne catchment area, 1974.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1976a *The aquatic macrophyte flora and aquatic vertebrate and invertebrate fauna of Holkham Lake and the dykes draining the reclaimed marshes, Holkham National Nature Reserve, Norfolk*. Unpublished report prepared for Nature Conservancy Council. East Anglia Region. 78p.

(Biological survey of 38 ditches at Holkham, 1975.)

Norfolk (other than Broadland)

RJD, NEN.

DRISCOLL, R. J. 1976b *Broadland dyke survey (maps)*. [Banbury]: Nature Conservancy Council. 8 microfiches. (CST report no. 139).

(Distribution maps of the aquatic flora and fauna of ditches in the northern part of Broadland, based on 982 visits to 892 sample sites in 1972-1974.)

Broadland

RJD, NEN, NEP.

DRISCOLL, R. J. 1976c *Distribution maps of aquatic vertebrates and invertebrates recorded in drainage dykes in Broadland, 1972-1974*. Unpublished report prepared for Nature Conservancy Council. 241p [Later included in DRISCOLL, R. J. 1976 *Broadland Dykes Survey (maps)*. [Banbury]: Nature Conservancy Council. 8 microfiches. (CST report no. 139).]

(Distribution maps of the aquatic fauna of ditches in the northern part of Broadland, based on 937 visits to 854 sample sites in 1972-1974.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1976d *The Thurne catchment area: second supplement, tables and figures not included in report and first supplement*. Unpublished report. 47p.

(Information about the ditch network in the Thurne catchment area.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1976e [*Visit to Old Buckenham Fen, 1 July 1976*]. Unpublished results of survey. 3 record sheets.

(Biological survey of a ditch at Old Buckenham Fen, 1976.)

Norfolk (other than Broadland)

RJD.

DRISCOLL, R. J. 1976f [*Visit to Ringland, 24 August 1976*]. Unpublished results of survey. 3 record sheets.

(Biological survey of a few ditches at Ringland, 1976.)

Norfolk (other than Broadland)

RJD.

DRISCOLL, R. J. 1977a [*Broadland Dyke Survey, 1977. Survey of dykes at Thrigby*]. Unpublished results of survey. 2 record sheets [Replacement copies].

(Botanical survey of 2 ditches at Thrigby, 1977.)

Broadland

RJD.

DRISCOLL, R. J. 1977b [*Visit to Littleman's Way, Stoke Ferry, 1 August 1977.*] Unpublished results of survey. 3 record sheets.

(Biological survey of 2 ditches at Littleman's Way, Stoke Ferry, 1977.)

Norfolk (other than Broadland)

RJD.

DRISCOLL, R. J. 1978a A preliminary report on the distribution of water beetles in Broadland dykes. *Balfour-Browne Club Newsletter* no. 8, 3-14.

(Annotated list of the aquatic Coleoptera recorded in ditches in the northern part of Broadland, mainly in 1972-1974.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1978b *Survey of the aquatic macrophyte flora and aquatic vertebrate and invertebrate fauna of Holkham Lake and the dykes draining the reclaimed marshes, Holkham National Nature Reserve, Norfolk. Distribution maps of the aquatic macrophytes recorded in the lake and dykes, summer 1975.* Unpublished report [prepared for Nature Conservancy Council]. 70p.

(Distribution maps of the aquatic flora of ditches at Holkham NNR, based on 38 sample sites visited in 1975.)

Norfolk (other than Broadland)

RJD, NEN.

DRISCOLL, R. J. 1978c *Survey of the aquatic macrophyte flora and aquatic vertebrate and invertebrate fauna of Holkham Lake and the dykes draining the reclaimed marshes, Holkham National Nature Reserve, Norfolk. Distribution maps of the aquatic vertebrates and invertebrates recorded in the lake and dykes, summer 1975.* Unpublished report [prepared for Nature Conservancy Council]. 109p.

(Distribution maps of the aquatic fauna of ditches at Holkham NNR, based on 38 sample sites visited in 1975.)

Norfolk (other than Broadland)

RJD, NEN.

DRISCOLL, R. J. 1979 [*Survey of Waltham Brooks Nature Reserve, 1978.*] Unpublished results of survey. 6 record sheets.

(Biological survey of Waltham Brooks Nature Reserve, including 3 ditches, 1978.)

West Sussex

RJD.

DRISCOLL, R. J. 1981a *A biological survey of the upper reaches of the River Wensum and its tributaries, carried out by R. E. Baker, R.J.Driscoll and P. W. Lambley, 1976-1977.* Unpublished report. 3 vols.

(Biological survey of the River Wensum, including 5 ditches, 1976-1977.)

Norfolk (other than Broadland)

RJD, NEN, NHN.

[DRISCOLL, R. J.] 1981b [*Broadland Dyke Survey, 1981 Survey of dykes in the Thurne catchment area.*] Unpublished results of survey. 59 record sheets.

(Biological survey of 59 ditches in the Thurne catchment area, 1981.)

Broadland

RJD.

DRISCOLL, R. J. 1981c *Distribution maps of aquatic macrophytes, bryophytes and algae recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub areas 1 and 2, summer 1973*. Unpublished report. 69p.

(Distribution maps of the aquatic flora of ditches in part of the Thurne catchment area, based on 134 sample sites visited in 1973.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1981d *Distribution maps of aquatic macrophytes, bryophytes and algae recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub areas 1 and 2, summer 1974*. Unpublished report. 73p.

(Distribution maps of the aquatic flora of ditches in part of the Thurne catchment area, based on 36 sample sites visited in 1974.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1981e *Distribution maps of aquatic macrophytes, bryophytes and algae recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub areas 1 and 2, summer 1981*. Unpublished report. 69p.

(Distribution maps of the aquatic flora of ditches in part of the Thurne catchment area, based on 59 sample sites visited in 1981.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1981f *Distribution maps of aquatic vertebrates and invertebrates recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub areas 1 and 2, summer 1973*. Unpublished report. 104p.

(Distribution maps of the aquatic fauna of ditches in part of the Thurne catchment area, based on 134 sample sites visited in 1973.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1981g *Distribution maps of aquatic vertebrates and invertebrates recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub areas 1 and 2, summer 1974*. Unpublished report. 95p.

(Distribution maps of the aquatic fauna of ditches in part of the Thurne catchment area, based on 36 sample sites visited in 1974.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1981h *Improvements in land management: their effects on aquatic plants*. 29p. Exhibit prepared for Botanical Society of the British Isles Annual Exhibition meeting, held at the British Museum (Natural History), London, Saturday 28 November 1981.

(Study of the effects of arable conversion on the ditch flora in part of the Thurne catchment area between 1973 and 1981.)

Broadland

RJD., NHN.

DRISCOLL, R. J. 1981i *Improvements in land management: their effects on aquatic plants. A preliminary report on the effects of changes in land use and drainage on the diversity and species composition of the dyke flora in the Thurne catchment area, 1973-1981*. Unpublished report. 7p.

(Study of the effects of arable conversion on the ditch flora in part of the Thurne catchment area between 1973 and 1981.)

Broadland

RJD, NEP.

DRISCOLL, R. J. 1982a *The aquatic vertebrate and invertebrate fauna and aquatic flora of the lower reaches of the Rivers Bure and Yare, Breydon Water, and Strumpshaw, Surlingham, Rockland and Wheatfen Broads.* Unpublished report prepared for Nature Conservancy Council. 2 vols.

(Biological survey of wetlands in the Bure and Yare valleys, including a ditch at Wheatfen, 1977.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1982b [*Broadland Dyke Survey, 1982. Survey of dykes at Billockby.*] Unpublished results of survey. 3 record sheets.

(Biological survey of 3 ditches at Billockby, 1982.)

Broadland

RJD.

DRISCOLL, R. J. 1982c [*Broadland Dykes Survey, 1982. Survey of dykes in the Thurne catchment area.*] Unpublished results of survey. 54 record sheets.

(Biological survey of 54 ditches in the Thurne catchment area, 1982.)

Broadland

RJD.

DRISCOLL, R. J. 1982d *Distribution maps of aquatic vertebrates and invertebrates recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub areas 1 and 2, summer 1981.* Unpublished report. 89p.

(Distribution maps of the aquatic fauna of ditches in part of the Thurne catchment area, based on 59 sample sites visited in 1981.)

Broadland

RJD, NEN.

DRISCOLL, R. [J.] 1982e The dyke vegetation at Oby and Thurne: a comparison of late 19th century and recent records. *Transactions of the Norfolk and Norwich Naturalists' Society* **26**(1), 43-49.

(Comparison of the ditch vegetation at Ashby with Oby and Thurne in 1878-1889 and 1972-1975.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1983a [*Broadland Dyke Survey, 1983. Survey of dykes at Thrigby.*] Unpublished results of survey. 3 record sheets [Replacement copies].

(Botanical survey of 3 ditches at Thrigby, 1983.)

Broadland

RJD.

DRISCOLL, R. J. 1983b Broadland dykes: the loss of an important wildlife habitat. *Transactions of the Norfolk and Norwich Naturalists' Society* **26**(3), 170-172.

(Study of ditch loss in part of the Thurne catchment area between 1973 and 1981.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1983c Improvements in land management: their effects on aquatic plants in

Broadland. *Watsonia* **14**(3), 276-277.

(Study of the effects of arable conversion on the ditch flora in part of the Thurne catchment area between 1973 and 1981.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1983d *A preliminary classification of Broadland dyke vegetation using TWINSpan*. London: Nature Conservancy Council. 46p. (CST notes no. 35).

(Classification of the ditch vegetation in Broadland, based on 424 sample sites visited in 1974.)

Broadland

RJD, NEN, NEP, NHN.

DRISCOLL, R. J. 1984a *Chloride ion concentrations in dyke water in the Thurne catchment area in 1974 and 1983*. Unpublished report. 62p.

(Comparison of the chloride ion concentrations in ditch water in part of the Thurne catchment area in 1974 and 1983.)

Broadland

RJD, NEN, NEP, NHN.

DRISCOLL, R. J. 1984b *Distribution maps of aquatic macrophytes and algae recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub areas 1 and 2, summer 1982*. Unpublished report. 70p.

(Distribution maps of the aquatic flora of ditches in part of the Thurne catchment area, based on 54 sample sites visited in 1982.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1984c *Distribution maps of aquatic vertebrates and invertebrates recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub areas 1 and 2, summer 1982*. Unpublished report. 106p.

(Distribution maps of the aquatic fauna of ditches in part of the Thurne catchment area, based on 54 sample sites visited in 1982.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1985 The effect of changes in land management on the dyke flora at Somerton and Winterton. *Transactions of the Norfolk and Norwich Naturalists' Society* **27**(1), 33-41.

(Study of the effects of arable conversion on the ditch flora in part of the Thurne catchment area between 1973 and 1982.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1986a [*Broadland Dyke Survey, 1986. Survey of dykes at Halvergate Marshes*]. Unpublished results of survey. 14p.

(Botanical survey of 12 ditches in the western part of Halvergate Marshes, 1986.)

Broadland

RJD, NEN.

DRISCOLL, R. J. 1986b Changes in land management in the Thurne catchment area, Norfolk, between 1973 and 1983 and their effects on the dyke flora and fauna. In: European Weed Research Society and Association of Applied Biologists 1986 [*Proceedings of the 7th International Symposium on Aquatic Weeds*. Loughborough University of Technology,

Loughborough, Leicestershire, England, 15-19 September 1986. [S.I.]: European Weed Research Society and Association of Applied Biologists]. pp. 87-92.

(Study of the effects of arable conversion on the ditch flora and fauna in part of the Thurne catchment area between 1973 and 1982.)

Broadland

RJD, NEN, NEP.

DRISCOLL, R. J. 1986c The dyke vegetation at Holkham National Nature Reserve, Norfolk. *Transactions of the Norfolk and Norwich Naturalists' Society* **27**(3), 183-190.

(Botanical survey of 38 ditches at Holkham NNR in 1975 and a classification of the ditch vegetation.)

Norfolk (other than Broadland)

RJD, NEN, NHN.

DRISCOLL, R. J. 1986d The effect of changes in land management on the dyke fauna at Somerton and Winterton. *Transactions of the Norfolk and Norwich Naturalists' Society* **27**(3), 215-220.

(Study of the effects of arable conversion on the ditch fauna in part of the Thurne catchment area between 1973 and 1982.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1991 *Distribution maps of selected dyke plants in the western part of Halvergate Marshes, August 1986. Based on records collected by A. Talks and L. Talks.* Unpublished report. 25p.

(Distribution maps of a few species of plant in the ditches at Halvergate Marshes, 1986.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1992 *Luronium natans* (L.) Raf. at Potter Heigham, 1951-1991. Unpublished report prepared for English Nature. 30p.

(Biological survey of 15 ditches at Potter Heigham, 1991.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1994a Changes in the aquatic molluscan fauna of Wheatfen Broad, Norfolk. *Conchologists' Newsletter* **7**(3), no. 129, 333-335.

(Note about changes in the aquatic Mollusca at Wheatfen, including a ditch, between the 1930s and 1977.)

Broadland

RJD.

DRISCOLL, R. J. 1994b *Luronium natans* (L.) Raf. at Potter Heigham - supplement. Unpublished report. 9p.

(Botanical survey of 7 ditches at Potter Heigham, 1983.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1995a *Biological records from fields and ditches at Gressenhall, Norfolk recorded by R. J. Driscoll and A. G. Irwin, 18 June 1991.* Unpublished results of survey. 7p.

(Biological survey of marshland, including 4 ditches, at Gressenhall, 1991.)

Norfolk

RJD, NHN.

DRISCOLL, R. J. 1995b Changes in the dyke vegetation at Oby. *Transactions of the Norfolk and Norwich Naturalists' Society* **30**(3), 289-297.

(Review of changes in the ditch vegetation at Oby and possible causes.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1995c *Changes in the dyke vegetation at Oby, 1972-1988*. Unpublished report. 217p.

(Review of changes in the ditch vegetation at Oby and Thurne between 1972 and 1988 and possible causes.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1996a *Broadland Dyke Survey 1972-1995*. Unpublished report. 211p.

(Review of some ditch research carried out in Broadland.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1996b *Chemical analyses of water samples from dykes at Upton, 5 March 1983*. Unpublished report. 6p.

(Chemical analyses of water samples from 18 ditches at Upton, 1983.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1996c Electrical conductivities of water samples from dykes in Broadland, 1975-1976. Unpublished report. 51p.

(Survey of the electrical conductivity of water in ditches in the northern part of Broadland, 1975-1976.)

Broadland

RJD, NEN, NHN.

[DRISCOLL, R. J.] 1997a [*Broadland Dyke Survey, 1997. Survey of dykes at Potter Heigham*]. Unpublished results of survey. 9 record sheets + 1 map.

(Botanical survey of 14 ditches at Potter Heigham, 1997.)

Broadland

RJD.

[DRISCOLL], R. J. 1997b [*Broadland Dyke Survey, 1997. Survey of dykes in the Thurne catchment area*]. Unpublished results of survey. 58 record sheets.

(Biological survey of 58 ditches in the Thurne catchment area, 1997.)

Broadland

RJD.

DRISCOLL, R. J. 1997c *Luronium natans (L.) Raf. at Potter Heigham, a review*. Unpublished report. 46p.

(Review of changes in the ditch vegetation at Potter Heigham between 1974 and 1997.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. 1999 *The Thurne catchment area: a review of some surveys of land use and of*

the flora and fauna of dykes. Unpublished report. 30p.

(Review of ditch research carried out in the Thurne catchment area.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. in prep.a *Changes in the dyke vegetation at Potter Heigham, 1974-1997.* Unpublished report.

(Review of changes in the ditch vegetation at Potter Heigham between 1974 and 1997.)

Broadland

DRISCOLL, R. J. in prep.b *Distribution maps of aquatic macrophytes, bryophytes and algae recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub-areas 1 and 2, summer 1997.* Unpublished report.

(Distribution maps of the aquatic flora of ditches in part of the Thurne catchment area, based on 58 sample sites visited in 1997.)

Broadland.

DRISCOLL, R. J. in prep.c *Distribution maps of aquatic vertebrates and invertebrates recorded from drainage dykes in Happisburgh-Winterton Internal Drainage Board sub-areas 1 and 2, summer 1997.* Unpublished report.

(Distribution maps of the aquatic fauna of ditches in part of the Thurne catchment area, based on 58 sample sites visited in 1997.)

Broadland.

DRISCOLL, R. J. in prep.d *The electrical conductivity of water in dykes in Happisburgh-Winterton Internal Drainage Board sub-areas 1 and 2, summer 1997.* Unpublished report.

(Survey of the electrical conductivity of water in ditches in part of the Thurne catchment area, 1997.)

Broadland

DRISCOLL, R. J. and DOARKS, C. 1997 *The survey and classification of dyke vegetation: a review of research carried out in Broadland.* [Revised version of paper presented at the *Nature conservation and the management of drainage system habitat* symposium held at Nottingham University, 23-25 September 1993.] 32p.

(Review of ditch research carried out in Broadland.)

Broadland

RJD.

[DRISCOLL, R. J. and LEES, A. J.] 1972a [*Broadland Dyke Survey, 1972.*] Unpublished results of survey [carried out for Nature Conservancy]. 231 record sheets [Replacement copies].

(Biological survey of 231 ditches in the northern part of Broadland, 1972.)

Broadland

RJD.

[DRISCOLL, R. J. and LEES, A. J.] [19772b] [*Survey of dykes at Lockgate Farm Marshes. 16.Sept.72.*] Unpublished report [prepared for Nature Conservancy]. 23p.

(Biological survey of ditches at Lockgate Farm Marshes, 1972.)

Broadland

RJD, NEN.

[DRISCOLL, R. J. and LEES, A. J.] [1973a] [*Broadland dyke survey. Distribution maps, using a 1-km grid system, of the aquatic macrophytes and bryophytes recorded in drainage dykes in Broadland, summer 1972.*] Unpublished report [prepared for Nature Conservancy].

(Distribution maps of the aquatic flora of ditches in the northern part of Broadland, based on visits to 231 sample sites in 1972.)

Broadland

NEN.

[DRISCOLL, R. J. and LEES, A. J.] [1973b] [*Broadland dyke survey. Distribution maps, using a 1-km grid system, of the aquatic vertebrates and invertebrates recorded in drainage dykes in Broadland, summer 1972.*] Unpublished report [prepared for Nature Conservancy].

(Distribution maps of the aquatic fauna of ditches in the northern part of Broadland, based on visits to 231 sample sites in 1972.)

Broadland

NEN.

DRISCOLL, R. J. and LEES, A. J. [1974] *The Thurne catchment area: a survey of land use, drainage and the flora and fauna of drainage dykes.* Unpublished report prepared for Nature Conservancy Council. 78p.

(Biological survey of 223 ditches in the Thurne catchment area, 1973.)

Broadland

RJD, NEN, NHN.

DRISCOLL, R. J. and WATERFORD, Z. L. 1994 *Potamogeton acutifolius* and epiphytic diatoms at Buckenham. *Transactions of the Norfolk and Norwich Naturalists` Society* **30**(1), 80-88.

(Study of changes in the epiphytic diatom flora of ditches at Buckenham between 1880 and 1975.)

Broadland

RJD, NEN, NHN.

ENVIRONMENTAL ADVISORY UNIT -LIVERPOOL UNIVERSITY LTD. [1990] [*Survey of Cliffe Marshes.*] Unpublished report prepared for Port of London Authority. [Cited by PORT OF LONDON AUTHORITY 1990 *Cliff silt lagoons. Environmental statement.* Unpublished report. 190p. + 4 maps.]

(Biological survey, of Cliffe Marshes, including 19 ditches, 1990.)

North Kent marshes

NOT SEEN.

ENVIRONMENTAL RESOURCES LTD. 1990 *Environmental statement: Swale Project. Final report for Lionhope (Kent) Ltd.* Unpublished report prepared for Lionhope (Kent) Ltd. [Cited by KEY, R. S. [1990] *Nature Conservancy Council. Lionhope Swale Project. Planning application nos SW/89/1050 SW/89/1051 SW/89/1052 & SW/89/1053. This evidence relates only to application no SW/89/1053 (case 12481). Proof of evidence by Dr R S Key.* Unpublished report prepared for Nature Conservancy Council. 2 vols.]

(Survey of ditches at Ridham and Coldharbour Marshes, 1989.)

North Kent marshes

NOT SEEN.

ETHERIDGE, S. J. 1995 *Investigation and comparison of invertebrate ecologies in the Inner Thames Marshes located at Barking, Purfleet, and Tilbury.* Unpublished B.Sc. thesis, University of Greenwich. 157p.

(Biological survey of a ditch at Aveley Marshes, 1994.)

Essex coast RJD.

EVANS, C. [E.] 1985 *Ditch plants at Nene Washes Reserve July-September 1984*. Unpublished report prepared for Royal Society for the Protection of Birds. 109p.

(Botanical survey of 138 ditches on the Nene Washes in 1984 and a classification of the ditch vegetation.)

Fenland RJD, RSPB.

[EVERSHAM, B. C.] [1990] *Inner Thames Marshes SSSI Rainham. Report on invertebrate survey and evaluation*. Unpublished report [prepared for Institute of Terrestrial Ecology.] 68p. [Incomplete draft of appendices 1 and 2.]

(Biological survey of marshes, including 7 ditches, at Rainham, 1989-1990.)

Essex coast RJD, BCE.

EVERSHAM, B. C. and GRETOREX-DAVIES, J. N. 1989 *Inner Thames Marshes SSSI, Rainham. Report on preliminary invertebrate survey at Wennington and Aveley Marshes*. Unpublished report prepared for Applied Environmental Research Centre Ltd. by Institute of Terrestrial Ecology. 66p.

(Biological survey of marshes, including 7 ditches, at Rainham, 1989.)

Essex coast RJD, BCE.

EVERSHAM, B. C., GRETOREX-DAVIES, J. N. and HARDING, P. T. 1989 *Inner Thames Marshes SSSI, Rainham. Report on preliminary invertebrate survey at Wennington and Aveley Marshes*. Unpublished report prepared for Applied Environmental Research Centre Ltd. by Institute of Terrestrial Ecology. 59p. [Draft.]

(Biological survey of marshes, including 7 ditches, at Rainham, 1989.)

Essex coast RJD.

EYRE, R. 1996 *Aquatic macro-invertebrate species and diversity of dykes, in relation to the management regime at Berney R.S.P.B. Reserve*. Unpublished undergraduate project, University of East Anglia. 65p.

(Survey of the aquatic fauna in 5 ditches at Berney Marshes Reserve in 1995 and an attempt to relate the fauna to ditch cleaning.)

Broadland RJD.

FARRELL, L. and PALMER, M. [A.] 1980 *Brief survey of Amberley Wildbrooks and Coldwaltham Canal -July 1979*. Unpublished report [prepared for Nature Conservancy Council]. 8p. [RJD copy bound with copy of record card.]

(Biological survey of a few ditches at Amberley Wild Brooks, 1979.)

West Sussex RJD, NEP.

[FOSTER, A. P.] [1982] [*Romney Marsh survey, 28 June-2 July 1982*.] Unpublished results of survey [carried out for Nature Conservancy Council]. 16p. [Later included in PALMER, M. [A.] [1985?] *Survey of the aquatic invertebrates of the Walland Marsh area of Romney Marsh 1982*. Unpublished report prepared for Nature Conservancy Council. 43p.]

(Biological survey of c.25 ditches on Romney Marsh, 1982.)

Romney Marsh RJD, NEP.

FOSTER, A. [P.] 1983a *Provisional report on the invertebrate fauna of the Somerset Levels (with reference to the nine PSSSI areas)*. Unpublished report [prepared for Nature Conservancy Council]. 8p.

(Survey of the invertebrate fauna of the Somerset Levels, including ditches, 1983.)

Somerset Levels

RJD, NEP.

FOSTER, A. [P.] 1983b Water beetles from the Romney Marshes. *Balfour-Browne Club Newsletter* no. 28, 4-7.

(List of aquatic Coleoptera recorded from various habitats, mainly ditches, on Romney Marsh, 1982.)

Romney Marsh

RJD, NHN.

FOSTER, A. [P.] 1984 Modern water beetle records from the Somerset Levels and Moors. *Balfour-Browne Club Newsletter* no. 30, 11-23.

(Annotated list of aquatic Coleoptera recorded in ditches on the Avon and Somerset Levels, 1983.)

Avon Levels, Somerset Levels

RJD, NHN.

FOSTER, G. N., FOSTER, A. P., EYRE, M. D. and BILTON, D. T. 1989 [1990] Classification of water beetle assemblages in arable fenland and ranking of sites in relation to conservation value. *Freshwater Biology* **22**(3), 343-354.

(Survey of the aquatic Coleoptera at 157 sites, mostly ditches, in the northern part of Fenland in 1986 and a classification of the aquatic coleopteran fauna.)

Fenland

RJD, NEP.

GARLAND, J. H. N. 1990 *An examination of water quality data collected at the Wild Brooks SSSI over the period 1981-89*. Unpublished report. 78p.

(Review of water chemistry data for 10 ditches at Amberley Wild Brooks, 1981-1989.)

West Sussex

RJD, NEP.

GEORGE, M. 1997 *The aquatic flora of the RSPB's Cantley dyke system* - 1996. Unpublished report. 69p.

(Botanical survey of 65 ditches at Cantley in 1996 and a review of earlier botanical records.)

Broadland

RJD, NEN.

GIBBS, D. J. 1991 *A quantitative base-line survey of the invertebrates of the Gwent Levels 1991*. Unpublished report prepared for Countryside Council for Wales. South Wales Region. 222p.

(Biological survey of 51 ditches on the Gwent Levels, 1991.)

Gwent Levels

RJD, NEP.

GIBBS, D. [J.] [1993] *Invertebrate survey of Fobbing Marsh ditch system 24 May-3 June 1993*. Unpublished report. 58p.

(Biological survey of 25 ditches at Fobbing Marshes, 1993.)

Essex coast

RJD.

GLADING, P. R. 1986a *A botanical survey of ditches on the Pevensey Levels*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 82p. (EFU project no. 25).

(Botanical survey of ditches on the Pevensey Levels, 1982-1984.)

Pevensey Levels

RJD, NEP.

GLADING, P. R. [1986b] *A classification of the reed (ditch) vegetation of the Gwent Levels*. Draft report. Unpublished report prepared for Nature Conservancy Council. South Wales Region and Chief Scientist Directorate. 50p. [Incomplete, lacks map and Appendix 1.]

(Classification of the ditch vegetation on the Gwent Levels, based on sample sites visited in 1982 and 1983.)

Gwent Levels

RJD, CCW.

GODDARD, D. G. [1981a] *River Soar - report of survey of aquatic and riparian invertebrates, 1980*. Leicester: Leicestershire Museums, Art Galleries and Records Service. 40p. (Leicestershire Museums publication no. 33).

(Biological survey of a ditch near Ratcliffe on Soar, 1980.)

Leicestershire

RJD, EUL, NEP.

GODDARD, D. G. [1981b] *Soar and Trent valleys - report on surveys of riparian and aquatic invertebrates, May and June 1981*. Unpublished report. 30p.

(Biological survey of water bodies, including 4 ditches, in the Soar and Trent valleys, 1981.)

Leicestershire

RJD, EUL.

GOWER, A. [1989?a] [*Invertebrate survey of Ferry Marshes*.] Unpublished report prepared for Environmental Resources Ltd. [Species list later included in: KEY, R. S. [1990] *Nature Conservancy Council. Lionhope Swale Project. Planning application nos SW/89/1050 SW/89/1051 SW/89/1052 & SW/89/1053. This evidence relates only to application no SW/89/1053 (case 12481). Proof of evidence*. Unpublished report prepared for Nature Conservancy Council. 2 vols.]

North Kent marshes

NOT SEEN.

GOWER, A. [1989?b] [*Invertebrate survey of marshes east of Iwade poultry farm*.] Unpublished report prepared for Environmental Resources Ltd. [Species list later included in: KEY, R. S. [1990] *Nature Conservancy Council. Lionhope Swale Project. Planning application nos SW/89/1050 SW/89/1051 SW/89/1052 & SW/89/1053. This evidence relates only to application no SW/89/1053 (case 12481). Proof of evidence*. Unpublished report prepared for Nature Conservancy Council. 2 vols.]

North Kent marshes

NOT SEEN.

GOWER, A. [1989?c] [*Invertebrate survey of Sheppey Court and Diggs Marshes*.] Unpublished report prepared for Environmental Resources Ltd. [Species list later included in: KEY, R. S. [1990] *Nature Conservancy Council. Lionhope Swale Project. Planning application nos SW/89/1050 SW/89/1051 SW/89/1052 & SW/89/1053. This evidence relates only to application no SW/89/1053 (case 12481). Proof of evidence*. Unpublished report prepared for Nature Conservancy Council. 2 vols.]

North Kent marshes

NOT SEEN.

GREGORY, R. D. 1986 *Freshwater invertebrate survey of the dyke systems of the lower Derwent valley*. Unpublished report prepared for Nature Conservancy Council. 52p.

(Survey of the aquatic fauna of ditches (180 sample sites) in the lower Derwent valley, 1986.)

Derwent valley

RJD, NEP, NEY.

GROSE, M. P. B. and ALLEN, D. S. 1978 *Survey of Ouse Washes waterplants July-September 1978*. Unpublished report prepared for Anglian Water Authority and Royal Society for the Protection of Birds. 125p.

(Botanical survey of the Ouse Washes, including 830 samples of ditch vegetation, 1978.)

Fenland

RJD, RSPB.

GROVE, S., JACKSON, P. and LISTER, J. 1991 *Heigham Holmes Norfolk*. Unpublished report prepared for National Trust. 30p.

(Biological survey of Heigham Holmes, including ditches, 1990.)

Broadland

RJD.

[GURNEY, R.] 1908-1909 [*Broadland vegetation survey*]. Unpublished results of survey. 139 record sheets + 13 maps. [Incomplete, 1 map missing.]

(Botanical survey of the northern part of Broadland, including several ditches, 1908-1909.)

Broadland

RJD, NHN.

HALSHAW, L. [1993] *Vegetation survey of dykes Buckenham and Cantley RSPB Nature Reserve 1993*. Unpublished report prepared for Royal Society for the Protection of Birds. 35p. [Incomplete, lacks maps 5-7, 15 and 16.]

(Botanical survey of ditches (96 sample sites) at Buckenham and Cantley, 1993.)

Broadland

RJD.

HARCOMBE, D. J. and DRISCOLL, R. J. 1973 [*Broadland Dyke Survey, 1973. Survey of dykes at Hemsby*]. Unpublished results of survey. 12 record sheets [Replacement copies].

(Biological survey of 12 ditches at Hemsby, 1973.)

Broadland

RJD.

HARRIS, J. E., PARMENTER, J. M. and RUNDLE, C. M. [1997] *The Broads Grazing Marsh Dyke Survey 1997. Survey of the aquatic plant species, communities and water vole *Arvicola terrestris* within the marsh dykes of the Broads Natural Area including a comparison with previous surveys*. Unpublished report prepared for English Nature, Broads Authority and Environment Agency. 200p [Incomplete ...]

(Botanical survey of *** ditches in Broadland in 1996 and 1997 and a review of changes in the ditch vegetation between 1988-1989 and 1996-1997.)

Broadland RJD, NEN, NHN.

HEARN, K. A. and ALEXANDER, K. 1989 *Horsey Estate, Norfolk (Outline)*. Unpublished report prepared for Natural Trust. 52p.

(Biological survey of Horsey, including 36 ditches, 1986.)

Broadland

RJD, NHN.

HENDERSON, A. C. B. 1982 *Biological survey of the pastures and dykes of the Sandwich-Deal area, 1982*. Unpublished report prepared for Southern Water Authority. 77p.

(Botanical survey of 597 ditches in the Sandwich/Deal area, 1982.)

East Kent marshes

RJD, NEP.

HENDERSON, A. [C. B.] 1985 *West Sedgemoor aquatic flora 1984*. Unpublished report prepared for Royal Society for the Protection of Birds. 124p. + 11 overlays.

(Botanical survey of 519 ditches at West Sedgemoor, 1984.)

Somerset Levels

RJD, RSPB.

HENDERSON, K. L. and HENDERSON, A. C. B. [1984] *Biological survey of Lydd Ranges 1984*. Unpublished report prepared for Nature Conservancy Council. South East Region. 2 vols.

(Biological survey of Lydd Ranges, including ditches, 1984.)

Romney Marsh

RJD, NEP.

HICKLIN, A. J. 1986a *An evaluation of the nature conservation status of the Lewes Brooks drainage system, East Sussex*. Unpublished report prepared for Nature Conservancy Council. South East Region. 38p.

(Biological survey of 161 ditches at Lewes Brooks in 1986 and a review of earlier invertebrate records.)

East Sussex

RJD, NEP.

HICKLIN, A. J. 1986b [*List of invertebrates from 19 ditches at Lewes Brooks May-August 1986*]. Unpublished report prepared for East Sussex County Council. [Cited by HICKLIN, A. J. 1986 *An evaluation of the nature conservation status of the Lewes Brooks drainage system, East Sussex*. Unpublished report prepared for Nature Conservancy Council. South East Region. 38p.]

East Sussex

NOT SEEN.

HINGLEY, M. R. 1979 The colonisation of newly-dredged drainage channels on the Pevensey Levels (East Sussex), with special reference to gastropods. *Journal of Conchology* **30**(2), 105-122.

(Study of the aquatic fauna of ditches on the Pevensey Levels, 1968-1978.)

Pevensey Levels

RJD.

HITCHINGS, S. P. 1989 *Bracklesham Bay SSSI. Survey of breeding birds, shingle and ditch flora*. Unpublished report prepared for Nature Conservancy Council. South East Region. 44p.

(Botanical survey of a few ditches at Bracklesham Bay, 1989.)

West Sussex

RJD, NEP.

HODGE, P. J. 1987 *Pett Levels entomological survey - May to July 1987*. Unpublished report [possibly prepared for Nature Conservancy Council]. 18p.

(Entomological survey of the Pett Levels, including 20 ditches, 1987.)

East Sussex

RJD, NEP.

HODGE, P. J. 1988 *Report for 'The Pells' invertebrate survey*. Unpublished report [possibly prepared for Nature Conservancy Council]. 11p.

(Survey of the invertebrate fauna at Offham Marshes, including several ditches, 1986 and 1988.)

East Sussex

RJD, NEP.

HODGE, P. J. 1990 *A survey of the Coleoptera, Diptera and Hemiptera-Heteroptera of the Arun Levels between Arundel and Pulborough*. Unpublished report prepared for Nature Conservancy Council. South East Region. 72p.

(Survey of insects in the Arun valley, including c.35 ditches, 1989-1990)

West Sussex

RJD, NEP.

HODGE, P. J. [1991] *A survey of aquatic invertebrates of selected ponds and dykes within Pevensey Levels SSSI (including Pevensey Levels NNR)*. Unpublished report prepared for English Nature. South-East Region. 12p.

(Survey of the aquatic fauna of 15 ditches on the Pevensey Levels, 1991.)

Pevensey Levels

RJD, NEP.

HODGE, P. J. [1992] *A survey of the insects of Westcourt Marshes and part of Filborough Marshes*. Unpublished report [prepared for English Nature]. 25p.

(Entomological survey of 16 ditches at Westcourt and Filborough Marshes, 1992.)

North Kent marshes

RJD.

HODGE, P. J. [2000] *The diving beetle Laccophilus poecilus (Dytiscidae): historical review, survey and monitoring on the Lewes Levels*. [Peterborough]: English Nature. 45p. (English Nature research reports no. 357).

(Survey of *Laccophilus poecilus* in ditches at Lewes Brooks in 1998-1999 and a review of earlier records.)

East Sussex

RJD.

HODGKIN, S. 1977 *Whittlesey Washes survey*. Unpublished report prepared for Nature Conservancy Council. [Cited by EVANS, C. [E.] 1985 *Ditch plants at Nene Washes Reserve July-September 1984*. Unpublished report prepared for Royal Society for the Protection of Birds. 109p.

Fenland

NOT SEEN.

HOOTON, S. [1987] *Survey of the upper Waveney & Dove valleys within the Broads Environmentally Sensitive Area 1987*. Unpublished report prepared for Nature Conservancy Council. East Anglia Region. 54p.

(Botanical survey of the upper Waveney and Dove valleys, including ditches, 1987.)

N, P.

HOPKINS, J. J. 1984 *Note for the file. Site visit to Bradbury and Morden Carrs, County Durham, 28/8/84*. Unpublished report [prepared for Nature Conservancy Council]. 5p.

(Botanical survey of a few ditches at Bradbury and Morden Carrs, 1984.)

Durham

RJD, NEP.

HOWITT, R. C. L. and HOWITT, B. E. 1952-1973 [*Day books, 1952-1973.*]

Unpublished records.

NB. NOT SEEN.

JACKSON, M. [J.] and CHARTER, E. 1978a *Ecological survey of the Yare basin marshlands. Part II. Parts of the mid Yare, lower Bure & Waveney valley. July - Sept 1978.* Unpublished report [prepared for Nature Conservancy Council]. 140p. [Incomplete, lacks p.16. Part I was a folder of maps..]

(Ecological survey of ditches in the southern part of Broadland, 1978.)

Broadland

RJD, NEN.

JACKSON, M. [J.] and CHARTER, E. 1978b *Yare Basin Survey. PART 2. A survey of the aquatic vegetation of drainage dykes and the distribution of grasslands, agricultural land uses and vegetation types in parts of the mid-Yare, lower Bure and Waveney valleys, Norfolk and Suffolk May to September 1978. Third draft.* Unpublished report [prepared for Nature Conservancy Council]. 140p. [Incomplete. Part 1 was a folder of maps.]

(Ecological survey of ditches in the southern part of Broadland, 1978.)

Broadland

RJD, NEN.

JACKSON, M. [J.] and CHARTER, E. 1978c *The Yare Basin Survey (Part 2). A survey of land-use and the aquatic vegetation of drainage dykes in parts of the mid-Yare, lower Bure and Waveney valleys.* Unpublished report [prepared for Nature Conservancy Council]. 105p. [Incomplete, lacks p.16, conclusions and appendix I. Part 1 was a folder of maps.]

(Ecological survey of ditches in the southern part of Broadland, 1978.)

Broadland

RJD, NEN.

JACKSON, M. [J.] and HOWLETT, D. J. 1999 *The freshwater molluscs of the River Waveney grazing marshes. A survey carried out during the summer of 1997.* [Norwich]: Broads Authority. 77p. (BARS 18).

(Survey of aquatic Mollusca in 524 ditches in the Waveney valley, 1997.)

Broadland

RJD, NHN.

JERRAM, R. 1986 *Vegetation survey of Rockland and Surlingham Church Marsh, Norfolk.* Unpublished report prepared for Royal Society for the Protection of Birds. 78p.

(Botanical survey, including 7 ditches at Surlingham Church Marsh and 22 ditches at Strumpshaw, 1986.)

Broadland

RJD, RSPB.

JOHNSON, B. R. [1986] *WLF/4958/SOMERSET/5: Tealham and Tadham Nature Conservation Order 1985 appeal by Mr M C Sweet. Public inquiry 4th February 1986 Burnham-on-Sea: Somerset. Proof of evidence.* Unpublished report prepared for Nature Conservancy Council. 60p. [RJD copy incomplete, lacks annex 12.]

(Botanical survey of 14 ditches at Tealham and Tadham Moors, 1985.)

Somerset Levels

RJD, NET.

K[ENNISON], G. [C. B.] 1994 [*Dyke monitoring of the Cantley Level-- 1994.*] Unpublished results of survey [carried out for Royal Society for the Protection of Birds]. 54 record sheets.

(Botanical survey of 54 ditches at Cantley, 1994.)

Broadland

RJD.

KENT TRUST FOR NATURE CONSERVATION 1991 *River catchment management plans; Marsh dykes ecology survey. Site descriptions.* Unpublished report prepared for National Rivers Authority, Thames Region. Vols. 1 and 2. [Cited by PLANT, C. W. 1991 *Invertebrates at Crayford Marsh: an Assessment.* Unpublished report prepared for English Nature. London. 51p.]

North Kent marshes

NOT SEEN.

KERRY, L. 1988 *Old Hall Marshes ditch plant survey.* Unpublished report prepared for Royal Society for the Protection of Birds.

NOT SEEN.

KEY, R. S. [1990] *Nature Conservancy Council. Lionhope Swale Project. Planning application nos SW/89/1050 SW/89/1051 SW/89/1052 & SW/89/1053. This evidence relates only to application no SW/89/1053 (case 12481). Proof of evidence.* Unpublished report prepared for Nature Conservancy Council. 2 vols.

(Review of invertebrate records, including many from ditches, from Ridham, Iwade and Coldharbour Marshes.)

North Kent marshes

RJD.

KEYMER, R. J. 1982 *Visit to Blacketts Farm on 20 May 1982.* Unpublished report [prepared for Nature Conservancy Council]. 4p.

(Botanical survey of 4 ditches at the Swale, 1982.)

North Kent marshes

RJD, NEP.

KEYMER, R. J. 1983 *Note for the file. Visit to Mr Stevens, Minnis Farm, Worth. On 23 June 1983. Note of visit on 15 July 1983.* Unpublished report [prepared for Nature Conservancy Council]. 3p.

(Botanical survey of 4 ditches at Worth, 1983.)

East Kent marshes

RJD, NEP.

KEYMER, R. J. 1986 *Note for the file. Dartford Marshes.* Unpublished report [prepared for Nature Conservancy Council]. 8p.

(Botanical survey of 11 ditches at Dartford Salt Marshes, 1985.)

North Kent marshes

RJD, NEP.

KEYMER, R. J., BLAKE, C. [P.] and DRAKE, [C.] M. 1989 *Pevensy Levels - final report. Proposed boundary for renotification under the Wildlife and Countryside Act 1981.* Unpublished report prepared for Nature Conservancy Council. England Field Unit. 166p. (EFU project no. 25).

(Review of biological records, mainly from ditches, from the Pevensy Levels.)

Pevensey Levels

RJD, NEP.

KILLEEN, I. J. 1994 *A survey of the freshwater Mollusca of Pevensey Levels East Sussex*. [Peterborough]: English Nature. 38p. (English Nature research reports no. 124).

(Survey of aquatic Mollusca in 100 ditches on the Pevensey Levels, 1994.)

Pevensey Levels

RJD.

KILLEEN, I. J. [2000] *A survey of the East Kent grazing marshes for the freshwater snail Segmentina nitida*. [Peterborough]: English Nature. 52p. (English Nature research reports no 356).

(Survey of aquatic Mollusca in 104 ditches on the East Kent Levels in 1999 and a comparison with the results of a survey carried out in 1996.)

East Kent marshes

RJD.

KILLEEN, I. J. and WILLING, M. J. 1997 *Survey of ditches in East Anglia and south-east England for the freshwater snails Segmentina nitida and Anisus vorticulus*. [Peterborough]: English Nature. 67p. (English Nature research reports no. 229).C

(Survey of aquatic Mollusca in Broadland and south-east England, including 154 ditches, 1996.)

West Sussex, Pevensey Levels, East Sussex,

East Kent marshes, Broadland.

RJD.

[KINDLEYSIDES, D.] 1992 [1992 dyke survey data for Halvergate Marshes SSSI collected by D. Kindleysides 3.8.92-15.8.92.] Unpublished results of survey [carried out as undergraduate project, University of East Anglia]. 63 record sheets + 3 maps.

(Botanical survey of 63 ditches at Halvergate Marshes, 1992.)

Broadland

RJD, NEN.

KINDLEYSIDES, D. 1993a *The flooding of the Cantley Level in 1993: monitoring the effects of saline inundation on the aquatic dyke flora in an area of Broadland grazing marsh*. Unpublished report prepared for English Nature. Norfolk. 55p.

(Botanical survey of 191 ditches at Cantley in 1993 and a comparison with the results of a survey carried out in 1988-1989.)

Broadland

RJD, NEN.

KINDLEYSIDES, D. [1993b] *A survey of the dyke flora at Halvergate Marshes SSSI*. Unpublished [undergraduate project, University of East Anglia]. 79p.

(Botanical survey of 63 ditches at Halvergate Marshes, 1992.)

Broadland

RJD, NEN, NHN.

KINDLEYSIDES, D. 1993c [Survey of dykes at Cantley, 1993.] Unpublished results of survey [carried out for English Nature. Norfolk]. 170 record sheets + 1 map.

(Botanical survey of 191 ditches at Cantley, 1993.)

Broadland

RJD, NEN.

KING, R. B. 1979 *The conservation value of the Exminster marshes and Exeter canal*. Unpublished report prepared for Devon Trust for Nature Conservation. [Cited by LEACH, S. J., DOARKS, C., REID, S. A. J. and NEWLANDS, C. 1991 *A botanical survey of ditches on the Exminster Marshes, Devon, 1988*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 98p. (EFU project no. 78).]

Devon

NOT SEEN.

KIRBY, P. 1991a *Cliffe & Higham Marshes, Kent. Survey of terrestrial invertebrates July 1991*. Unpublished report [prepared for English Nature]. 34p.

(Survey of the invertebrate fauna of Cliffe and Higham Marshes, including c.25 ditches, 1991.)

North Kent marshes

RJD.

KIRBY, P. 1991b *Ramsey Marsh, Essex TL940056. Survey of aquatic and marginal invertebrates 2 November 1991*. Unpublished report [prepared for English Nature]. 11p.

(Survey of the aquatic fauna of a few ditches at Ramsey Marsh, 1991.)

Essex coast

RJD.

KIRBY, P. 1992 *Chippenham Fen Cambridgeshire. Aquatic invertebrate monitoring 1991*. Unpublished report prepared for English Nature. [Cited by KIRBY, P 1996 *Chippenham Fen NNR. [Botanical, invertebrate and hydrological] monitoring 1991-1995. Appendix 3 invertebrate monitoring. Part B: aquatic invertebrate monitoring 1995 and report on monitoring 1991-1995*. [Peterborough]: English Nature. pp. 78-111. (English Nature research reports no. 194).]

Fenland

NOT SEEN.

KIRBY, P. 1993 *Chippenham Fen NNR, Cambridgeshire. Aquatic invertebrate monitoring 1992*. [Peterborough]: English Nature. 25p. (English Nature research reports no. 33.)

(Survey of aquatic Mollusca and Coleoptera in 9 ditches at Chippenham Fen in 1992 and a comparison with records from 1991.)

Fenland

RJD.

KIRBY, P. 1994 *Chippenham Fen NNR, Cambridgeshire. [Aquatic invertebrate monitoring 1993]*. [Peterborough]: English Nature. 24p. (English Nature research reports no. 78.)

(Survey of aquatic Mollusca and Coleoptera in 9 ditches at Chippenham Fen in 1993 and a comparison with records from 1991 and 1992.)

Fenland

RJD.

KIRBY, P. 1995 *Chippenham Fen NNR, Cambridgeshire. Aquatic invertebrate monitoring 1994*. Unpublished report prepared for English Nature. [Cited by KIRBY, P 1996 *Chippenham Fen NNR. [Botanical, invertebrate and hydrological] monitoring 1991-1995. Appendix 3 invertebrate monitoring. Part B: aquatic invertebrate monitoring 1995 and report on monitoring 1991-1995*. [Peterborough]: English Nature. pp. 78-111. (English Nature research reports no. 194).]

Fenland

NOT SEEN.

KIRBY, P 1996 *Chippenham Fen NNR. [Botanical, invertebrate and hydrological] monitoring 1991-1995. Appendix 3 invertebrate monitoring. Part B: aquatic invertebrate monitoring 1995 and report on monitoring 1991-1995*. [Peterborough]: English Nature. pp. 78-111. (English Nature research reports no. 194).

(Review of records of aquatic Mollusca, Coleoptera and Hemiptera from 9 ditches at Chippenham Fen, 1991-1995.)

Fenland

RJD.

KITE, D. J. [c.1991] *A habitat survey of the Wennington Marshes North Greater London*. Unpublished report prepared for Nature Conservancy Council. South East Region. 10p.

(Brief account of the ditch vegetation at Wennington Marshes North, 1989.)

Essex coast

RJD, NEP.

KNIGHTS, B. and POWLESLAND, C. 1984 The ecology of the freshwater and saline ditches on Crayford and Dartford Marshes, Kent. *London Naturalist* no. 63, 79-91.

(Biological survey of 5 ditches at Crayford and Dartford Marshes, 1979-1980.)

North Kent marshes

RJD, NEP, NHN.

LATIMER, W. 1980 *A survey of the dyke flora of Romney Marsh, Kent and East Sussex*. Unpublished report prepared for Nature Conservancy Council. South East Region. 126p.

(Botanical survey of ditches on Romney Marsh, 1980.)

Romney Marsh

RJD, NEP.

LEACH, S. J., DOARKS, C., REID, S. A. J. and NEWLANDS, C. 1991 *A botanical survey of ditches on the Exminster Marshes, Devon, 1988*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 98p. (EFU project no. 78).

(Botanical survey of 145 ditches on Exminster Marshes, 1988.)

Dorset

RJD, NEP.

LEES, A. J. 1973 [*Broadland Dyke Survey, 1973. Survey of dykes in the Thurne catchment area.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 73 record sheets (copies).

(Biological survey of 73 ditches in the Thurne catchment area, 1973.)

Broadland RJD.

LEYSHON, O. [J.] 1992 *The habitat requirements of Anaciaeshna isosceles and its implications for conservation monitoring*. Unpublished [undergraduate project, University of East Anglia]. 62p.

(Survey of the distribution of *Aeshna isosceles* and *Stratiotes aloides* in ditches at Castle Marshes, 1991.)

Broadland

RJD, NEN, NHN.

LEYSHON, O. J. and MOORE, N. W. 1993 A note on the British Dragonfly Society's survey of *Anaciaeshna isosceles* at Castle Marshes, Barnby, Suffolk, 1991-1992. *Journal of the British Dragonfly Society* **9**,(1), 5-9.

(Surveys of the distribution of *Aeshna isosceles* and *Stratiotes aloides* in ditches at Castle Marshes, 1991-1992.)

Broadland

RJD.

LOVETT, D. [1994] *An investigation into the effect of dredging cycles on species richness, species diversity and successional dynamics at West Sedgemoor, S.S.S.I.* Unpublished [undergraduate project, University of East Anglia]. 79p.

(Botanical survey of 16 ditches at West Sedgemoor, 1993.)

Somerset Levels

RJD.

MACEY, A. 1975 Reclaimed marsh survey. *In: Report of the Maplin Ecological Research Programme. Part II.* London: Department of the Environment. [Cited by CHARMAN, K. 1981 *A botanical survey of ditches in selected areas of the north Kent marshes.* Unpublished report prepared for Nature Conservancy Council. England Field Unit. 188p. (EFU project no. 14).]

Essex coast

NOT SEEN.

MCLEAN, I. F. G. 1982 *The Gwent Levels. A report on the terrestrial invertebrates recorded in July 1981.* Unpublished report prepared for Nature Conservancy Council. 60p.

(Biological survey of the Gwent Levels, including 23 ditches, 1981.)

Gwent Levels

RJD.

MALARD, F. 1989a *Etude des invertébrés aquatiques des canaux de drainage dans une région à agriculture intensive: Hatfield Chase, Angleterre.* Unpublished student project, Loughborough University of Technology. 106p.

(Biological survey of 105 ditches at Hatfield Chase in 1989 and a classification of the ditch fauna.)

Thorne and Hatfield Moors

RJD.

MALARD, F. 1989b *A survey of the aquatic invertebrates of Hatfield Chase.* Unpublished report prepared for Loughborough University of Technology. 11p.

(Survey of the aquatic fauna of 51 ditches at Hatfield Chase, 1989.)

Thorne and Hatfield Moors

RJD.

MALARD, F. 1990 *Factors affecting the distribution of the aquatic invertebrates of Hatfield Chase.* Unpublished student project, Loughborough University of Technology. 96p.

(Biological survey of 107 ditches at Hatfield Chase in 1989 and a classification of the ditch fauna.)

Thorne and Hatfield Moors

RJD, NEP.

MARSHALL, E. J. P. 1984 The ecology of a land drainage channel - II biology, chemistry and submerged weed control. *Water Research* **18**(7), 817-825.

(Biological survey of a ditch at Goldcliff, 1974-1975.)

Gwent Levels

RJD.

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD 1991 *The Broads Environmentally Sensitive Area. Report of monitoring 1991.* London: Ministry of Agriculture, Fisheries and Food. viii, 51p.

(Brief account of the monitoring of the ditch flora within the Broads ESA, 1987-1990.)

Broadland RJD, NEN.

MOORE, T. and AUSTIN, P. 1997 *The distribution & abundance of Potamogeton acutifolius in Broadland, Norfolk*. Unpublished report prepared for English Nature. 91p. [Incomplete, lacks p.44.]

(Survey of 78 ditches in the lower Yare and Waveney valleys to assess the status of *Potamogeton acutifolius*, 1996.)

Broadland

RJD, NEN, NHN.

MORRIS, J. H. 1984 Observations on the algal flora of the Romney Marsh dykes. *Transactions of the Kent Field Club* 9(3), 125-128.

(List of algae collected from 4 ditches on Romney Marsh, 1975-1983.)

Romney Marsh

RJD, NEP.

MORRIS, R. et al. 1993 *A ditch survey method for use in the North Kent Marshes Environmentally Sensitive Area*. Unpublished report prepared for English Nature and National Rivers Authority. [Cited by WILLIAMS, P. and WARE, C. [1998] *Ditch communities on the north Kent marshes SSSIs*. [Peterborough]: English Nature. 59p. (English Nature research reports no. 289).]

North Kent marshes

NOT SEEN.

MOUNTFORD, J. O. 1968- [Botanical survey of Fenland.] Unpublished notebooks.

Fenland

JOM.

MOUNTFORD, J. O. 1982 [Survey of dykes at Upton, 1982.] Unpublished results of survey carried out during Mires Research Group meeting.

(Botanical survey of 13 ditches at Upton, 1982.)

Broadland M, N.

MOUNTFORD, J. O. 1983 [Survey of ditches on the Idle/Missom Levels, 1983.] Unpublished results of survey [carried out for Nature Conservancy Council].

Thorne and Hatfield Moors

JOM.

MOUNTFORD, J. O. 1986-1989 [Survey of ditches and ponds at Swavesey, 1986-1989.] Unpublished results of survey.

Fenland

JOM.

MOUNTFORD, J. O. and SHEAIL, J. 1982 *The impact of land drainage on wildlife in the Romney Marsh: the availability of baseline data. Interim report to the Nature Conservancy Council*. Unpublished report prepared for Nature Conservancy Council. 146p. (ITE project 718). [Incomplete version later published as MOUNTFORD, J. O. and SHEAIL, J. 1983 *The impact of land drainage on wildlife in the Romney Marsh: the availability of baseline data*. [Banbury: Nature Conservancy Council.] 3 microfiches. (CST report no. 456).]

(Botanical survey of ditches on Romney Marsh in, 1981 and a review of ecological information for the area.)

Romney Marsh

RJD, NEP.

MOUNTFORD, J. O. and SHEAIL, J. 1983 *The impact of land drainage on wildlife in the Romney Marsh: the availability of baseline data.* [Banbury: Nature Conservancy Council.] 3 microfiches. (CST report no. 456).

(Botanical survey of ditches on Romney Marsh in 1981 and a review of ecological information for the area.)

Romney Marsh

RJD.

MOUNTFORD, J. O. and SHEAIL, J. 1984a [Pembrokeshire valley wetlands survey.] Unpublished results of survey.

(Botanical survey of ditches in Pembrokeshire, 1984.)

Pembrokeshire

JOM.

MOUNTFORD, J. O. and SHEAIL, J. 1984b *Plant life and the watercourses of the Somerset Levels and Moors. Interim report to the Nature Conservancy Council.* Unpublished report prepared for Nature Conservancy Council. 63p. (ITE project 718). [Later published as MOUNTFORD, J. O. and SHEAIL, J. 1985 *Plant life and the watercourses of the Somerset Levels and Moors.* [Peterborough: Nature Conservancy Council.] 2 microfiches. (CSD report no. 560).

(Botanical survey of 240 ditches on the Avon and Somerset Levels, 1982, with further sampling in 1983.)

Avon Levels, Somerset Levels

RJD, NEP.

MOUNTFORD, J. O. and SHEAIL, J. 1985 *Plant life and the watercourses of the Somerset Levels and Moors.* [Peterborough: Nature Conservancy Council.] 2 microfiches. (CSD report no. 560).

(Botanical survey of 240 ditches on the Avon and Somerset Levels, 1982, with further sampling in 1983.)

Avon Levels, Somerset Levels

RJD.

MOUNTFORD, J. O. and SHEAIL, J. 1986 *Vegetation and changes in farming practice on the Idle/Misson Levels (Nottinghamshire, Humberside and South Yorkshire).* [Peterborough: Nature Conservancy Council.] 2 microfiches. (CSD report no. 633).

(Botanical survey of 200 ditches on the Idle/Misson Levels, 1983.)

Thorne and Hatfield Moors

RJD.

MUGRIDGE, R. E. R. [1982] [*Amberley Wild Brooks.*] *Hydrobiology.* [Report for 1980-1981.] Unpublished report [prepared for Southern Water Authority]. 10p. [Extract from unidentified report.]

(Biological survey of 10 ditches at Amberley Wild Brooks, 1980-1981.)

West Sussex

RJD, NEP.

MUGRIDGE, R. E. R. [1983] *Amberley Wild Brooks. Hydrobiology.* [Report for 1982.] Unpublished report [prepared for Southern Water Authority]. 15p. [Extract from unidentified report.]

(Biological survey of 10 ditches at Amberley Wild Brooks, 1982.)

West Sussex

RJD, NEP.

- MUGRIDGE, R. E. R. [1984] *Amberley Wild Brooks. Hydrobiology. [Report for 1983.]*
 Unpublished report [prepared for Southern Water Authority]. 8p. [Extract from unidentified report.]
 (Biological survey of 10 ditches at Amberley Wild Brooks, 1983.)
 West Sussex RJD, NEP.
- MUGRIDGE, R. E. R. [1985] *Amberley Wild Brooks. Hydrobiology. [Report for 1984.]*
 Unpublished report [prepared for Southern Water Authority]. 9p. [Extract from unidentified report.]
 (Biological survey of 10 ditches at Amberley Wild Brooks, 1984.)
 West Sussex RJD, NEP.
- MUNDY, R. 1993 *Pevensey Levels ditch survey.* Unpublished report prepared for Sussex
 Wildlife Trust. 33p. [Incomplete, lacks appendix IV.]
 (Botanical survey of 120 ditches on the Pevensey Levels in 1993 and a classification of the
 ditch vegetation.)
 Pevensey Levels RJD, ST.
- N., R. B. 1985 [*Survey of meadows and rhynes at Westhay Moor PSSSI, 6 September 1985.*]
 Unpublished results of survey [carried out for Nature Conservancy Council]. 8p.
 (Botanical survey of 10 ditches at Westhay Moor, 1985)
 Somerset Levels RJD, NEP.
- NATURE CONSERVANCY COUNCIL. SOUTH WALES REGION [1982] *A survey of the flora of
 the reens (drainage ditches) of the Gwent Levels July-September 1982.* Unpublished report. 66p.
 (Botanical survey of ditches on the Gwent Levels, 1982.)
 Gwent Levels NEP.
- NATURE CONSERVANCY COUNCIL. SOUTH WALES REGION [1984] *A survey of the flora of
 the reens (drainage ditches) of the Gwent Levels 1982-83.* Unpublished report. 107p.
 (Botanical survey of ditches on the Gwent Levels, 1982-1983.)
 Gwent Levels NEP.
- NATURE CONSERVANCY COUNCIL and SOUTHERN WATER 1989 *Romney Marsh - land
 drainage and conservation. An assessment of the environmental impact of selected land drainage
 operations on the flora and fauna of Lambs Farm Dyke on Romney Marsh.* Unpublished report.
 77p. [Later published as WADE, P. M. 1989 *An assessment of the environmental impact of
 selected land drainage operations on the flora and fauna of Lambs Farm Dyke on Romney Marsh.*
 2 microfiches. [Peterborough: Nature Conservancy Council.] (CSD report no. 1055).]
 (Study of the effects of different methods of ditch cleaning on the flora and faunas in the
 Lambs Drain between 1985 and 1987.)
 Romney Marsh RJD, NEP.
- NATURE CONSERVANCY COUNCIL and SOUTHERN WATER AUTHORITY [1979a] *A survey
 of the invertebrate fauna and flora of the dykes of the lower Stour valley, Kent Autumn 1978.*
 Unpublished report. 170p.
 (Biological survey of a large number of ditches in the lower Stour valley, 1978.)

East Kent marshes RJD, NEP.

NATURE CONSERVANCY COUNCIL and SOUTHERN WATER AUTHORITY [1979b] *A survey of the invertebrate fauna and flora of the dykes of the lower Stour valley, Kent Autumn 1978. Third draft.* Unpublished report. 158p.

(Biological survey of a large number of ditches in the lower Stour valley, 1978.)

East Kent marshes RJD, NEP.

NEWBOLD, C. [1976] *Canada Farm, Shapwick, Somerset ST.420410.* Unpublished report [prepared for Nature Conservancy Council]. 4p.

(Biological survey of 5 ditches at Shapwick, 1976.)

Somerset Levels RJD, NEP.

NEWBOLD, C. 1977 *Report on Amberley Wild Brooks, Sussex.* Unpublished report [prepared for Nature Conservancy Council]. 2p.

(Brief description of the ditch flora at Amberley Wild Brooks, 1977.)

West Sussex RJD, NEP.

NEWBOLD, C. 1981 *The lower Stour valley Kent. Site visit 18 June 1981.* Unpublished report [prepared for Nature Conservancy Council]. 5p.

(Botanical survey of a few ditches in the lower Stour valley, 1981.)

East Kent marshes RJD, NEP.

NEWBOLD, C. 1983a [*Survey of ditches at Braunton Marsh, Devon, 19 September 1983.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 1 record card.

(Botanical survey of 5 ditches at Braunton Marshes, 1983.)

Devon RJD, NEP.

NEWBOLD, C. 1983b [*Survey of rhynes on the Gordano Levels, 17 September 1983.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 1 record card.

(Biological survey of 4 ditches on the Gordano Levels, 1983.)

Avon Levels RJD, NEP.

NEWBOLD, C. 1984 [*Survey of ditches at Bradbury and Morden Carrs, Durham, 24 September 1984.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 1 record card. [Sample sites marked on map in HOPKINS, J. J. 1984 *Note for the file. Site visit to Bradbury and Morden Carrs, County Durham, 28/8/84.* Unpublished report [prepared for Nature Conservancy Council]. 5p.] [RJD copy bound with copy of map.]

(Botanical survey of a few ditches at Bradbury and Morden Carrs, 1984.)

Durham RJD, NEP.

NEWBOLD, C. and BLACKBURN, M. 1981 [*Survey of dykes at Strumpshaw Fen, Norfolk, 11 August 1981.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 2 record cards + 1 map.

(Botanical survey of 11 ditches at Strumpshaw, 1981.)

Broadland

RJD, NEP.

NEWBOLD, C., MASSY, M., HEAP, J. and PALMER, M. [A.] 1979 [*Survey of dykes on the Nene Washes (Whittlesey), 16 and 24 July 1979.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 2 record cards.

(Biological survey of 10 ditches on the Nene Washes, 1979.)

Fenland

RJD, NEP.

NEWBOLD, C. and PALMER, M. [A.] 1980 [*Survey of rhynes on the Somerset Levels, 23 and 24 June 1980.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 5 record cards.

(Biological survey of a few ditches on the Somerset Levels, 1980.)

Somerset Levels

RJD, NEP.

NEWBOLD, C. and PALMER, M. [A.] 1981 [*Survey of dykes in the Yare valley, Norfolk, 21 July 1981.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 4 record cards.

(Biological survey of 14 ditches in the Yare valley, 1981.)

Broadland

RJD, NEP.

NEWBOLD, C. and PALMER, M. [A.] 1982 [*Survey of dykes on the Teynham Level and near the Conyer Creek, Kent, 20 October 1982.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 2 record cards + 1 map.

(Botanical survey of 8 ditches on the Teynham Level and near the Conyer Creek, 1982.)

North Kent marshes

RJD, NEP.

NEWBOLD, C., PALMER, M. [A.], WILLIAMS, R., WAY, M. and JOHNSON, B. [R.] 1984 [*Survey of rhynes on the Somerset Levels, 10 and 11 July 1984.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 3 record cards + 3 maps.

(Biological survey of ditches on the Somerset Levels, 1984.)

Somerset Levels

RJD, NEP.

NICHOLSON, P. [1993] *Report on the management of the drainage regime within Exminster Marshes.* Unpublished report prepared for National Rivers Authority. South Western Region. 62p.

(Botanical survey of 49 ditches on Exminster Marshes in 1992, with management recommendations.)

Devon

RJD, NEO.

NORTH KENT WILDLIFE PRESERVATION SOCIETY 1975 *A species list of the flora and fauna of the Cliffe Marshes dredgings dumping site.* Unpublished report. [Cited by PORT OF LONDON AUTHORITY 1990 *Cliffe silt lagoons. Environmental statement.* Unpublished report. 190p. + 4 maps.]

North Kent marshes

NOT SEEN.

O'RIORDAN, T. and DOARKS, C. [1980] *Report on the 1980 marsh dyke survey*. Unpublished report [prepared for Broads Authority]. 7p.

(Brief account of ditch survey carried out in Broadland in 1980 and its conclusions.)

Broadland

RJD, NEN.

P[AGE], S. E. 1980a *Nottinghamshire Carrs survey 1980*. Unpublished results of survey [carried out for Nature Conservancy Council. East Midlands Region]. 54 record sheets [+ duplicates of 16 record sheets] + 7 maps. [Incomplete, lacks several maps.]

(Botanical survey of 53 ditches in the Idle valley, 1980.)

Thorne and Hatfield Moors

RJD, NEP.

PAGE, S. E. 1980 *River Idle Carrs. Botanical survey of dykes*. Unpublished report prepared for Nature Conservancy Council. East Midlands Region. 41p.

(Botanical survey of 53 ditches in the Idle valley, 1980.)

Thorne and Hatfield Moors

RJD, NEP, NEY.

PALMER, M. [A.] [1979a] *Survey of aquatic invertebrates. Somerset, 1979*. Unpublished report prepared for Nature Conservancy Council. Chief Scientist's Team. 21p. [Later included in COOTER, J., CROPPER, R., HECKFORD, R. [G.], MCLEAN, I. [F. G.], PALMER, M. [A.] and STUBBS, A. [E.] 1981 *A survey of the invertebrates of the Somerset Levels June 1979*. Unpublished report prepared for Nature Conservancy Council. 72p. (CST report no. 324).]

(Survey of the invertebrate fauna of a few ditches on the Somerset Levels, 1979.)

Somerset Levels

RJD, NEP.

PALMER, M. [A.] 1979b [*Survey of rhynes on the Somerset Levels, 18-21 June 1979*]. Unpublished results of survey [carried out for Nature Conservancy Council]. 8 record cards.

(Biological survey of a few ditches on the Somerset Levels, 1979.)

Somerset Levels

RJD, NEP.

PALMER, M. [A.] 1980 *Water beetles from the Somerset Levels. Balfour-Browne Club Newsletter* no. 17, 1-3.

(List of the aquatic Coleoptera recorded from ditches on the Somerset Levels, 1979.)

Somerset Levels

RJD, NHN.

PALMER, M. [A.] [1981a] *Survey of the aquatic fauna of the north Kent marshes, 1980*. Unpublished report prepared for Nature Conservancy Council. Chief Scientist's Team. 45p.

(Survey of the aquatic fauna of c.69 ditches on the north Kent coast, 1980-1981.)

North Kent marshes

RJD, NEP.

PALMER, M. A. 1981b [*Survey of dykes on the Pevensy Levels, 24 and 25 September 1981*]. Unpublished results of survey [carried out for Nature Conservancy Council]. 1 record card + 1 map.

(Biological survey of ditches on the Pevensy Levels, 1981.)

Pevensy Levels

RJD, NEP.

PALMER, M. [A.] 1981c Water beetles from the north Kent marshes. *Balfour-Browne Club Newsletter* no. 21, 6-7.

(List of the aquatic Coleoptera recorded from ditches on the north Kent marshes, 1980.)

North Kent marshes

RJD, NHN.

PALMER, M. A. 1982a *A comparison of Freshwater Biological Association and Nature Conservancy Council surveys of the aquatic invertebrates of the Somerset Levels*. Unpublished report [prepared for Nature Conservancy Council]. 3p.

(Brief comparison of the results of two strategies used to sample the aquatic fauna of ditches on the Somerset Levels in 1979 and 1981.)

Somerset Levels

RJD, NEP.

PALMER, M. [A.] 1982b [*Romney Marsh survey, 28 June-2 July 1982.*] Unpublished results of survey [carried out for Nature Conservancy Council]. [Later included in PALMER, M. [A.] [1985?] *Survey of the aquatic invertebrates of the Walland Marsh area of Romney Marsh 1982*. Unpublished report prepared for Nature Conservancy Council. 43p.]

(Survey of the aquatic fauna of c.30 ditches on Romney Marsh, 1982.)

Romney Marsh

NOT SEEN.

PALMER, M. [A.] [1983] *Somerset Levels and Moors. Survey of ditch vegetation 1982. [Appendix ix, Analysis of the data.]* Unpublished report [prepared for Nature Conservancy Council]. 19p. [Slightly different version later included in WOLSELEY, P. A., PALMER, M. A. and WILLIAMS, R. 1984 *The aquatic flora of the Somerset Levels and Moors*. Unpublished report prepared for Nature Conservancy Council. Chief Scientists's Team. 192p.]

(Classification of the ditch vegetation on the Somerset Levels, based on 512 sample sites visited in 1980-1982.)

Somerset Levels

RJD, NEP.

PALMER, M. [A.] 1984a *A comparison of the flora and invertebrate fauna of watercourses in old pasture and arable land in the Pevensy Levels, Sussex, in 1983*. Unpublished report prepared for Nature Conservancy Council. Chief Scientist's Team. 30p.

(Comparison of the aquatic flora and fauna of ditches draining grazing marsh and arable land on the Pevensy Levels, 1983.)

Pevensy Levels

RJD, NEP.

PALMER, M. [A.] 1984b [*Survey of ditches at Everton and Gringley Carrs, Notts., 3 October 1984.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 1 record card + 4 maps.

(Biological survey of 9 ditches at Everton and Gringley Carrs, 1984.)

Thorne and Hatfield Moors

RJD, NEP.

PALMER, M. [A.] 1984c [*Survey of ditches at Nassington - Nene valley, 20 and 27 June 1984.*] Unpublished results of survey carried out for Nature Conservancy Council. 2 record cards + 1 map.

(Biological survey of 9 ditches at Nassington, 1984.)

Northamptonshire

RJD, NEP.

PALMER, M. [A.] [1985?a] *Survey of the aquatic invertebrates of the Walland Marsh area of Romney Marsh 1982*. Unpublished report prepared for Nature Conservancy Council. 43p.

(Biological survey of c.70 ditches on Romney Marsh, 1982.)

Romney Marsh

RJD, NEP.

PALMER, M. [A.] 1985b *Visit to Nassington ditches 1.8.85*. Unpublished results of survey [carried out for Nature Conservancy Council]. 1p.

(Botanical survey of 2 ditches at Nassington, 1985.)

Northamptonshire

RJD, NEP.

PALMER, M. [A.] 1986a *Dartford Marshes. Visit on 4th July 1986*. Unpublished report [prepared for Nature Conservancy Council]. 5p.

(Botanical survey of 24 ditches at Dartford Marshes, 1986.)

North Kent marshes

RJD, NEP.

PALMER, M. [A.] 1986b The impact of a change from permanent pasture to cereal farming on the flora and invertebrate fauna of watercourses in the Pevensey Levels, Sussex. *In: European Weed Research Society and Association of Applied Biologists 1986 [Proceedings of the] 7th International Symposium on Aquatic Weeds. Loughborough University of Technology, Loughborough, Leicestershire, England, 15-19 September 1986*. [S.I.]: European Weed Research Society and Association of Applied Biologists. pp. 233-238. [RJD copy includes 1 additional table.]

(Comparison of the aquatic flora and fauna of ditches draining grazing marsh and arable land on the Pevensey Levels, 1983.)

Pevensey Levels

RJD, NEP.

PALMER, M. [A.] 1986c *South Willesborough ditches - aquatic plant survey 24.6.86*. Unpublished report [prepared for Nature Conservancy Council]. 8p.

(Botanical survey of 8 ditches near South Willesborough, 1986.)

Kent

RJD, NEP.

PALMER, M. [A.] 1986d [*Survey of rhynes at Pawlett Hams, 23 September 1986*.] Unpublished results of survey [carried out for Nature Conservancy Council]. 8 record cards + 1 map.

(Biological survey of 11 ditches at Pawlett Hams, 1986.)

Somerset Levels

RJD, NEP.

PALMER, M. [A.] 1987 A survey of the aquatic invertebrates of Romney Marsh. *Transactions of the Kent Field Club* **10**(3), 123-133.

(Biological survey of several dykes at Romney Marsh, 1982.)

Romney Marsh

RJD, NEP.

PALMER, M. [A.] 1988 *Gordano Valley NNR. Management of dykes*. Unpublished report [prepared for Nature Conservancy Council]. 4p. + 1 record card.

(Botanical survey of 4 ditches at Gordano Valley NNR in 1988, with management suggestions.)

Avon Levels

RJD NEP.

PALMER, M. [A.] and BRIGGS, R. 1984 [Survey of ditches at Walmore Common SSSI, 2 July 1984.] Unpublished results of survey [carried out for Nature Conservancy Council]. 1 record card + 1 map.

(Biological survey of 10 ditches at Walmore Common, 1984.)

Gloucestershire

RJD, NEP.

PARDON, B. J. 1986a *Botanical survey of Crayford Marshes, London Borough of Bexley, September 1985. [With additional data for 1986.]* Unpublished report prepared for Nature Conservancy Council. South East Region. 28p. [RJD copy includes 2 additional maps.]

(Botanical survey of 74 ditches at Crayford Marshes, 1985-1986.)

North Kent marshes

RJD, NEP.

PARDON, B. J. [1986b] *Botanical survey of Dartford Marshes, Kent, September 1985.* Unpublished report prepared for Nature Conservancy Council. South East Region. 24p.

(Botanical survey of 85 ditches at Dartford Marshes, 1985.)

North Kent marshes

RJD, NEP.

PARDON, B. J. [1986c] *Inner Thames Marshes (Rainham, Wennington and Aveley Marshes complex).* Unpublished report prepared for Nature Conservancy Council. South East Region. 21p.

(Brief account of the ditch vegetation at the Inner Thames Marshes, 1985.)

Essex coast

RJD, NEL, NEP.

[PARKINSON], M. 1983 *Report on Braunton Marsh, July 1983.* Unpublished report [prepared for Nature Conservancy Council]. 9p.

(Botanical survey of a few ditches at Braunton Marsh, 1983.)

Devon

RJD, NEO, NEP.

PARMENTER, J. [M.] 1997 *Survey of marshland & associated dykes at Ebridge Mill, Norfolk with habitat assessment proposals for mitigation.* Unpublished report prepared for Environment Agency. Anglian Region by Ecological Associates. 24p.

(List of plants recorded from 4 ditches near Ebridge Mill, probably in 1997.)

Broadland

RJD, NHN.

PARMENTER, J. M. [1998] *North Walsham & Dilham Canal Ecological Survey October 1997-December 1998.* Unpublished report prepared for East Anglian Waterways Association Ltd. by Ecological Associates. 621p.

(Ecological survey of the North Walsham and Dilham Canal, including botanical surveys of 17 ditches near the canal, 1997-1998.)

Broadland

RJD, NEN, NHN.

PELL, G. 1983 *Note for the file. Hayward House proposed extension - site visit Thursday 11 November [1983].* Unpublished report [prepared for Nature Conservancy Council]. 4p.

(Botanical survey of 5 ditches at Haywards Farm, 1983.)

Romney Marsh

RJD, JEP.

PELL, G. 1984 *Sandwich Bay and Hacklinge Marshes SSSI. [Survey and evaluation of extensions 7, 9 and 10.]* Unpublished report [prepared for Nature Conservancy Council]. 33p.

(Botanical survey of 42 ditches in and around Sandwich Bay and Hacklinge Marshes in 1984 and a comparison with the results of a survey carried out in 1982.)

East Kent marshes

RJD, NEP.

PETTS, G. E. *et al.* 1991 *Ecological assessment of wild bores in the Fens near Bourne, Lincolnshire.* Unpublished report prepared for National Rivers Authority. Anglian Region. [Cited by SIR WILLIAM HALCROW & PARTNERS LTD. 1991 *South Lincolnshire limestone aquifer: sealing of wild boreholes. Preliminary [sic] ecological and hydrological assessment.* Unpublished report prepared for National Rivers Authority. Anglian Region. 32p.]

Fenland

NOT SEEN.

PHILLIPS, N. J. A. 1975 *Dykes of Romney Marsh.* Unpublished M.Sc. thesis, Wye College, University of London. [Cited by MOUNTFORD, J. O. and SHEAIL, J. 1982 *The impact of land drainage on wildlife in the Romney Marsh: the availability of baseline data. Interim report to the Nature Conservancy Council.* Unpublished report prepared for Nature Conservancy Council. 146p. (ITE project 718).]

Romney Marsh

NOT SEEN.

PHILP, E. G. 1976 *On the vegetation of the Cliffe Marshes.* Unpublished report. [Cited in PORT OF LONDON AUTHORITY 1990 *Cliffe silt lagoons. Environmental statement.* Unpublished report. 190p. + 4 maps.]

North Kent marshes

NOT SEEN.

[PHILP, E. G.] [1980] *North Kent marshes survey, July 1980.* Unpublished results of survey [carried out for Nature Conservancy Council]. 5p.

(Survey of the aquatic fauna of c.30 ditches on the north Kent coast, 1980.)

North Kent marshes

RJD, NEP.

PHILP, E. G. 1982 [*Romney Marsh survey, 28 June-2 July 1982.*] Unpublished results of survey. 20p. [Later included in PALMER, M. [A.] [1985?] *Survey of the aquatic invertebrates of the Walland Marsh area of Romney Marsh 1982.* Unpublished report prepared for Nature Conservancy Council. 43p.]

(Biological survey of c.30 ditches on Romney Marsh, 1982.)

Romney Marsh

RJD, NEP.

PHILP, E. G. [1983] *Essex marshes survey 17th-22nd July 1983.* Unpublished results of survey. 12p.

(Biological survey of a few ditches on the Essex coast, 1983.)

Essex coast

RJD.

P[HILP], E. G. 1987 [*North Kent marshes survey, 1987.*] Unpublished results of survey. 9p.

(Biological survey of c.40 ditches along the River Medway, 1987.)

North Kent marshes

RJD, NEP.

PHILP, E. [G.] [1989a] [*Invertebrate survey of Iwade Marshes - Ridham Marshes west of railway 7 June 1989.*] Unpublished report prepared for Environmental Resources Ltd. [Species list included in: KEY, R. S. [1990] *Nature Conservancy Council. Lionhope Swale Project. Planning application nos SW/89/1050 SW/89/1051 SW/89/1052 & SW/89/1053. This evidence relates only to application no SW/89/1053 (case 12481). Proof of evidence.* Unpublished report prepared for Nature Conservancy Council. 2 vols.]

North Kent marshes

NOT SEEN.

PHILP, E. [G.] [1989b] [*Invertebrate survey of Ridham and Coldharbour Marshes 17 and 19 May 1989.*] Unpublished report prepared for Environmental Resources Ltd. [Species list included in: KEY, R. S. [1990] *Nature Conservancy Council. Lionhope Swale Project. Planning application nos SW/89/1050 SW/89/1051 SW/89/1052 & SW/89/1053. This evidence relates only to application no SW/89/1053 (case 12481). Proof of evidence.* Unpublished report prepared for Nature Conservancy Council. 2 vols.]

North Kent marshes

NOT SEEN.

PHILP, E. G. 1990 *An ecological survey of the Iwade Marshes.* Unpublished report prepared for Kent County Council. [Incomplete version included in: KEY, R. S. [1990] *Nature Conservancy Council. Lionhope Swale Project. Planning application nos SW/89/1050 SW/89/1051 SW/89/1052 & SW/89/1053. This evidence relates only to application no SW/89/1053 (case 12481). Proof of evidence.* Unpublished report prepared for Nature Conservancy Council. 2 vols.]

(Survey of the aquatic fauna of 22 ditches at Iwade Marshes, 1990.)

North Kent marshes

NOT SEEN.

PHILP, E. G. [1991] *Cliffe aquatic invertebrate survey.* Unpublished report prepared for English Nature. 24p.

(Biological survey of several ditches at Cliffe and Higham Marshes, 1991.)

North Kent marshes

RJD.

PLANT, C. W. 1986 *Report on the invertebrate fauna of Rainham Rifle Ranges Essex (a part of the Rainham Marshes complex).* Unpublished report prepared for Nature Conservancy Council. London by Essex Biological Records Centre, Passmore Edwards Museum. 28p.

(Survey of the aquatic fauna of several ditches at Rainham Rifle Ranges, 1986.)

Essex coast

RJD, NEL.

PLANT, C. W. 1987 *Report on the invertebrate fauna of Purfleet Army Range Essex (a part of the Rainham Marshes complex) with particular reference to the drainage dykes.* Unpublished report prepared for Nature Conservancy Council. South East Region by Essex Biological Records Centre, Passmore Edwards Museum. 37p.

(Survey of the aquatic fauna of 12 ditches at Aveley Marshes, 1987.)

Essex coast

RJD, NEL.

PLANT, C. W. 1988 *Report on the invertebrate fauna of Wennington Marshes Essex*. Unpublished report prepared for Nature Conservancy Council. South East Region by Essex Biological Records Centre, Passmore Edwards Museum. 21p.

(Survey of the aquatic fauna of several ditches at Wennington Marshes, 1988.)

Essex coast

RJD, NEL

PLANT, C. W. 1991 *Invertebrates at Crayford Marsh: an Assessment*. Unpublished report prepared for English Nature. South-East Region. 51p.

(Survey of the invertebrate fauna at Crayford Marshes, including the aquatic fauna of a few ditches, 1991.)

North Kent marshes

RJD, NEL.

PLANT, C. W. 1992 *Invertebrates at Dartford Marsh. An assessment*. Unpublished report prepared for English Nature. South-East Region. 50p.

(Survey of the invertebrate fauna at Dartford Marshes, including the aquatic fauna of several ditches, 1992.)

North Kent marshes

RJD, NEL.

PLANT, C. W. 1993 *Invertebrates at Erith and Belvedere Marshes. An assessment*. Unpublished report prepared for English Nature. South-East Region. 63p.

(Survey of the invertebrate fauna at Erith and Belvedere Marshes, including the aquatic fauna of several ditches, 1993.)

North Kent marshes

RJD.

POLLOCK, K., BRADFORD, R. and CHRISTIAN, S. 1992a *A botanical survey of ditches on the Avon Levels and Moors 1991*. Unpublished report prepared for English Nature. South West Region. 139p.

(Botanical surveys of 1165 ditches on the Avon Levels and Moors, 1991.)

Avon Levels

RJD, NEP.

POLLOCK, K., BRADFORD, R. and CHRISTIAN, S. 1992b *A botanical survey of ditches on the Avon Levels and Moors 1991 and 1992*. Unpublished report prepared for English Nature. South West Region. 149p. (Internal report no. 3).

(Botanical surveys of 1432 ditches on the Avon Levels and Moors, 1991-1992.)

Avon Levels

RJD, NET.

POND ACTION 1992 *An aquatic macroinvertebrate survey of ditches on Westcourt Marshes, Kent*. Unpublished report prepared for RPS Clouston. 14p.

(Survey of the aquatic fauna of 13 ditches at Westcourt Marshes, 1992.)

North Kent marshes

RJD.

PORT OF LONDON AUTHORITY 1990 *Cliffe silt lagoons. Environmental statement*. Unpublished report. 190p. + 4 maps.

(Biological survey of several ditches at Cliffe Marshes, 1990.)

North Kent marshes

RJD.

POWLESLAND, C. 1984 *The effects of leachate from a land-fill site on the surrounding marsh ecosystem*. Unpublished Ph.D. thesis, Polytechnic of Central London. [Cited by KNIGHTS, B. and POWLESLAND, C. 1984 *The ecology of the freshwater and saline ditches on Crayford and Dartford Marshes, Kent. London Naturalist* no. 63, 79-91.]

Essex coast

NOT SEEN.

RAINE, P. 1980 *The flora of drainage ditches - an ecological study of part of the Somerset Levels*. Unpublished M.Sc. thesis, University College, London. 102p.

(Botanical survey of 72 ditches in the North Moor area in 1980 and an attempt to relate the ditch vegetation to environmental factors.)

Somerset Levels

RJD, NET.

RANWELL, D. S. and STORETON-WEST, R. 1983 *Sizewell: ecological survey*. Unpublished report prepared for Central Electricity Generating Board by Institute of Terrestrial Ecology. 103p. (ITE project 838).

(Botanical survey of the Sizewell Power Station site, including 16 ditches, 1983.)

Suffolk coast

RJD.

REID, S. A. J., LEACH, S. J. and NEWLANDS, C. 1989a *A botanical survey of grazing marsh ditch systems on the north Norfolk coast, 1988*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 47p. (EFU project no. 77).

(Classification of the ditch vegetation on the north Norfolk coast, based on 204 sample sites visited in 1988.)

Norfolk (other than Broadland)

RJD, NEN, NEP.

REID, S. A. J., NEWLANDS, C. and LEACH, S. J. 1989b *A new classification of Broadland dyke vegetation*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 34p. (EFU project no. 76).

(Classification of the ditch vegetation in Broadland, based on 635 sample sites visited in 1988.)

Broadland

RJD, NEN, NEP, NHN.

ROSE, F. 1954-1959 [*Ecological flora of Kent*.] Unpublished records. [Cited by MOUNTFORD, J. O. and SHEAIL, J. 1982 *The impact of land drainage on wildlife in the Romney Marsh: the availability of baseline data. Interim report to the Nature Conservancy Council*. Unpublished report prepared for Nature Conservancy Council. 146p. (ITE project 718).]

Romney Marsh

NOT SEEN.

SECCOMBE, P. 1977 *Somerset Wetlands Project. Report on the botanical evaluation of the rhyne systems - August 1976*. Unpublished report. 44p. [Incomplete draft.]

(Botanical survey of ditches on the Somerset Levels, 1976.)

Somerset Levels

RJD, NET.

[SELF, C. and BURCH, A.] [1990] [*NVC ditch survey at Pulborough Brooks, August/September 1990*.] Unpublished results of survey [carried out for Royal Society for the Protection of Birds]. 72

record sheets + 1 map.

(Botanical survey of ditches at Pulborough Brooks, 1990.)

West Sussex

RJD, RSPB.

SHAW, S. C., WHEELER, B. D., KIRBY, P. and WHITE, P. 1996 Chippenham Fen NNR. Botanical, invertebrate and hydrological monitoring 1991-1995. Final report. [Peterborough]: English Nature. 59p. (English Nature research reports no. 191).

(Review of ecological records from Chippenham Fen, including records of aquatic Mollusca, Coleoptera and Hemiptera from 9 ditches, 1991-1995.)

Fenland

RJD.

SHEPPARD, D. A. 1985 *A survey of the aquatic invertebrates from selected ditches in the Somerset Levels*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 12p. (EFU project no. 40).

(Survey of the aquatic fauna of 18 ditches at Westhay and Tadham Moors, 1985.)

Somerset Levels

RJD, NEP.

SHEPPARD, D. A. 1987 *An invertebrate survey of selected ditches on Westhay Moor SSSI*. Unpublished report [prepared for Nature Conservancy Council]. 26p.

(Survey of the aquatic fauna of 14 ditches at Westhay Moor, 1987.)

Somerset Levels

RJD, NEP.

SHERWOOD, A. [1993] *The Broads ESA dyke monitoring*. Unpublished report prepared for Agricultural Development and Advisory Service. 12p.

(Brief account of the monitoring of the ditch flora within the Broads ESA, 1987-1992.)

Broadland

RJD.

SIBBETT, N. [1992a] *Dyke survey, Minsmere valley marshes part 1 (Mr Keeble/Mr Lampard)*. Unpublished report [prepared for English Nature]. 8p.

(Botanical survey of 12 ditches at Minsmere, 1992.)

Suffolk coast

RJD, NEB.

SIBBETT, N. 1992b *Dyke survey, Minsmere valley marshes part 2 (Mrs Livesley)*. Unpublished report [prepared for English Nature]. 5p.

(Botanical survey of 12 ditches at Minsmere, 1992.)

Suffolk coast

RJD, NEB.

SIR WILLIAM HALCROW & PARTNERS LTD. 1991 *South Lincolnshire limestone aquifer: sealing of wild boreholes. Preliminary [sic] ecological and hydrological assessment*. Unpublished report prepared for National Rivers Authority. Anglian Region. 32p.

(Botanical survey of 9 ditches in the Bourne/Horbling area, 1991.)

Fenland

RJD.

SIR WILLIAM HALCROW & PARTNERS LTD. 1992 *South Lincolnshire limestone aquifer:*

sealing of wild boreholes. *Ecological and hydrological assessments. Final report.* Unpublished report prepared for National Rivers Authority. Anglian Region. 101p.

(Botanical survey of c.43 ditches in the Bourne/Horbling area, 1991.)

Fenland

RJD.

SLATER, Z. L. 1991 *Epiphytic diatoms in Broadland drainage dykes: a spatial and temporal study.* Unpublished [B.Sc. thesis], University of East Anglia. 303p.

(Survey of epiphytic diatoms in 10 ditches in the northern part of Broadland, 1990.)

Broadland

RJD, NEN, NHN.

SMITH, E. K. G. 1985 Water beetles at Rye Harbour. *Balfour-Browne Club Newsletter* no. 32, 12-14.

(List of aquatic Coleoptera recorded from 15 ditches in the Rye Harbour area, 1983-1984.)

East Sussex

RJD, NHN.

SMITH, I. R. and HUMPHREYS, E. A. 1986 *A botanical survey and evaluation of drainage ditches on the Maltraeth Marsh SSSI, Ynys Mon, Gwynedd.* Unpublished report prepared for Nature Conservancy Council. Wales Field Unit. 131p.

(Botanical survey of 248 ditches at Maltraeth Marsh SSSI in 1985 and a classification of the ditch vegetation.)

Anglesey

RJD, CCW.

SMITH, T. and DREWETT, H. 1986 [*List of plants from the Mother Drain at Misterton Soss, 15 October 1986.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 1 record card + 1 map.

(List of plants from the Mother Drain, 1986.)

Thorne and Hatfield Moors

RJD, NEP.

SOUTHERN WATER AUTHORITY 1978 *A survey of the dyke fauna of the lower Stour valley, Kent. Autumn 1978. First draft.* Unpublished report. 40p.

(Survey of the aquatic fauna in 47 ditches in the lower Stour valley, 1978.)

East Kent marshes

RJD, NEP.

SOUTHWOOD, R. R. 1987 *Ludham Marshes National Nature Reserve Management Plan.* Unpublished report [prepared for Nature Conservancy Council]. 76p.

(Review of biological data for Ludham Marshes, including botanical surveys of 68 ditches in 1980 and 1986.)

Broadland

RJD, NEN.

SPENCER, T. A. [1993] *An aquatic vegetation survey of grazing marsh dykes at Upton Marshes SSSI, Norfolk.* Unpublished B.Sc. thesis, University of Wolverhampton. 221p.

(Botanical survey of 79 ditches at Upton in 1992 and a classification of the ditch vegetation.)

Broadland

RJD, NEN.

STEEL, C. 1976 *The ecology of Pevensey Levels in relation to the drainage system*. Unpublished M.Sc. thesis, University College, London. 84p.

(Biological survey of 16 ditches on the Pevensey Levels, 1976.)

Pevensey Levels

RJD, NEP.

STUBBS, A. E. 1979 *Somerset Levels survey: June 1979*. Unpublished report [prepared for Nature Conservancy Council]. 4p.

(Brief summary of the results of a biological survey of the Somerset Levels, including ditches, 1979.)

Somerset Levels

RJD, NEP.

STUBBS, A. E. 1980 *North Kent marshes. Invertebrate survey 8-12 September 1980 - preliminary report*. Unpublished report [prepared for Nature Conservancy Council]. 3p.

(Brief summary of the results of a survey of the fauna of the north Kent marshes, including ditches, 1980.)

North Kent marshes

RJD, NEP.

SUFFOLK WILDLIFE TRUST [1993] A botanical survey of the Sizewell Belts grazing marsh dyke system. *In: SUFFOLK WILDLIFE TRUST [1993] An ecological survey of Sizewell Belts*. Unpublished report prepared for Nuclear Electric. Pp. 75-93.

(Botanical survey of 66 ditches at Sizewell Belts, 1993.)

Suffolk coast

RJD, SWT.

TALKS, L. [1986] *A study of the factors which affect the distribution of vegetation in the Halvergate Fleet Dyke*. Unpublished [B.Sc. thesis, University of Durham]. 103p.

(Botanical survey of the Fleet Dyke in 1986 and a classification of the vegetation.)

Broadland

RJD, NEN.

TAYLOR, D. M. 1984 *The vegetation of Old Hall Marshes, Essex September, 1984*. Unpublished report prepared for Royal Society for the Protection of Birds. 89p.

(Botanical survey of Old Hall Marshes, including 22 stretches of borrow dyke, 1984.)

Essex coast

RJD, RSPB.

THOMAS, D. H. L. 1988 *The effect of environment and management on dragonflies in Lincolnshire*. Unpublished M.Sc. thesis, University College, London. 138p.

(Survey of the Odonata in a few ditches at Saltfleetby-Theddlethorpe Dunes and in nearby farmland, 1988.)

Lincolnshire coast

RJD, NEP.

THOMAS, G. J., ALLEN, D. S. and GROSE, M. P. B. 1980 Aquatic plants at the Ouse Washes in 1978. *Nature in Cambridgeshire* no. 23, 29-39.

(Botanical survey of the Ouse Washes, including 803 samples of ditch vegetation, 1978.)

Fenland

RJD, NEP.

THOMAS, G. J., ALLEN, D. A. [*sic*, = S.] and GROSE, M. P. B. 1981 The demography and flora of the Ouse Washes, England. *Biological Conservation* 21(3), 197-229.

(Botanical survey of the Ouse Washes, including ditches, 1970-1978.)

Fenland

RJD, NEN.

THOMAS, R. 1987 *Note for the file. Halvergate Marshes SSSI. Survey of dykes within Mr. Dunthorne's land - 20/3/87 (RWT)*. Unpublished report [prepared for Nature Conservancy Council]. 3p.

(Botanical survey of 25 ditches at Halvergate Marshes, 1987.)

Broadland

RJD, NEN.

TIDSWELL, R. and SODEN, D. 1992 *A survey of the aquatic flora of selected grazing marsh dykes in Broadland, Norfolk, October 1991*. Unpublished report prepared for English Nature. East Region. 74p.

(Botanical survey of 114 ditches at Ludham, Upton and Halvergate, 1991.)

Broadland

RJD, NEN, NEP.

TIMMS, R. M. 1982-? [*Broadland grazing marsh SSSI survey (SSSI renotification)*]. Unpublished results of survey carried out for Nature Conservancy Council.

(Botanical survey of several SSSIs and PSSSIs, including ditches, in Broadland, 1982-.)

Broadland

RJD, NEN.

VAN DONGEN, A. and PAINTER, D. [1989] [*Stodmarsh NNR.*] *Dyke flora survey*. Unpublished report [prepared for Nature Conservancy Council]. 12p.

(Botanical survey of 27 ditches at Stodmarsh, 1989.)

East Kent marshes

RJD, NEP.

WADE, P. M. 1977 *The dredging of drainage channels: its ecological effects*. Unpublished Ph.D. thesis, University of Wales Institute of Science and Technology. 400p.

(Biological survey of 244 ditches on the Gwent Levels between 1974 and 1976 and a classification of the ditch vegetation.)

Gwent Levels

RJD.

WADE, P. M. 1986 *Summary report of first year of observations of Lamb's Drain, Romney Marsh, Kent*. Unpublished report [prepared for Nature Conservancy Council and Southern Water Authority]. 63p. [Incomplete?]

(Study of effects of different methods of ditch cleaning on the flora in the Lamb's Drain, 1985.)

Romney Marsh

RJD.

WADE, P. M. 1987a *Summary report of second year of observations of Lamb's Drain, Romney Marsh, Kent*. Unpublished report [prepared for Nature Conservancy Council and Southern Water Authority]. 26p. [Incomplete?]

(Study of effects of different methods of ditch cleaning on the flora in the Lamb's Drain, 1986.)

Romney Marsh

RJD.

[WADE, P. M.] [1987b] *Survey of dragonflies in the Hatfield Chase area*. Unpublished report prepared for Nature Conservancy Council. 11p.

(Survey of the Odonata in 120 ditches at Hatfield Chase, 1986.)

Thorne and Hatfield Moors

RJD, NEP.

WADE, P. M. 1988 *Summary report of third year of observations of Lamb's Drain, Romney Marsh, Kent*. Unpublished report [prepared for Nature Conservancy Council and Southern Water Authority]. 1p. [Incomplete?]

(Study of effects of different methods of ditch cleaning on the flora in the Lamb's Drain, 1987.)

Romney Marsh

RJD.

WADE, P. M. 1989a *An assessment of the environmental impact of selected land drainage operations on the flora and fauna of Lambs Farm Dyke on Romney Marsh*. 2 microfiches. [Peterborough: Nature Conservancy Council.] (CSD report no. 1055).

(Study of the effects of different methods of ditch cleaning on the flora and faunas in the Lambs Drain between 1985 and 1987.)

Romney Marsh

NOT SEEN.

[WADE, P. M.] [1989b] *Summary report of fourth year of observations of Lamb's Drain, Romney Marsh, Kent*. Unpublished report [prepared for Nature Conservancy Council and Southern Water Authority]. 25p. [Incomplete.]

(Study of effects of different methods of ditch cleaning on the flora in the Lamb's Drain, 1988.)

Romney Marsh

RJD.

[WADE, P. M.] [1990] *Summary report of fifth year of observations of Lamb's Drain, Romney Marsh, Kent*. Unpublished report [prepared for Nature Conservancy Council and Southern Water Authority]. 9p. [Incomplete?]

(Study of effects of different methods of ditch cleaning on the flora in the Lamb's Drain, 1989.)

Romney Marsh

RJD.

WADE, P. M. and SCOTTER, C. N. G. [c.1978] *The distribution of macro-Crustacea in the permanent drainage channels of the Monmouthshire (Gwent) Levels*. Unpublished [draft of paper]. 25p.

(Survey of some Crustacea in ditches on the Gwent Levels, 1973-1975.)

Gwent Levels

RJD.

WADE, P. M. and WINGFIELD, M. 1987 *An assessment of the aquatic flora of Hatfield Chase, near Doncaster with recommendations for botanical conservation and further research*. Unpublished report prepared for Seven-Trent Water Authority and Nature Conservancy Council. 59p.

(Botanical survey of ditches (114 sample sites) at Hatfield Chase in 1986 and a

classification of the ditch vegetation.)

Thorne and Hatfield Moors

RJD, NEP.

WALKER, A. 1987 *Wey valley meadows*. Unpublished report prepared for Nature Conservancy Council. South East Region. 13p.

(Botanical survey of part of the Wey valley, including a few ditches, probably in 1987.)

Surrey

RJD, NEP.

WATERFORD, Z. L. and DRISCOLL, R. J. 1992 Epiphytic diatoms in Broadland dykes. *Transactions of the Norfolk and Norwich Naturalists' Society* **29**(3), 199-216.

(Survey of epiphytic diatoms in 10 ditches in the northern part of Broadland in 1990 and a classification of the diatom flora.)

Broadland

RJD, NEN, NHN.

WATERFORD, Z. L. and DRISCOLL, R. J. 1997 The use of epiphytic diatoms to measure long-term changes in water quality: a case study at Buckenham, Norfolk, 1880-1990. [Revised version of paper presented at the *Nature conservation and the management of drainage system habitat* symposium held at Nottingham University, 23-25 September 1993.] 32p.

(Study of changes in the epiphytic diatom flora of ditches at Buckenham, 1880-1990.)

Broadland

RJD.

WATT, T. A. and KIRBY, K. J. [1983] *Wytham Meads SSSI*. Unpublished report [prepared for Oxford University Field Station and Nature Conservancy Council].. 25p. [Incomplete, lacks photographs.]

(Botanical survey of 10 ditches at Wytham Meads, 1983.)

Oxfordshire

RJD, KJK.

WHISSON, K. [E.] 1984 *Visit to Mr. Merricks land west of Offens Farm, East Guldeford*. Unpublished report [prepared for Nature Conservancy Council]. 5p.

(Botanical survey of 6 ditches near Offens Farm in 1984 and a comparison with the results of a survey in 1980.)

Romney Marsh

RJD, NEP.

[WHISSON, K. E.] [1985a] [*Romney Marsh SSSI - Haywards Farm proposed extension. Ditch survey, 27 July 1985.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 4p.

(Botanical survey of 22 ditches at Haywards Farm, 1985.)

Romney Marsh

RJD, NEP.

[WHISSON, K. E.] [1985b] [Survey of Five Watering Sewer and Highnock Channel, Romney Marsh, 1984-1985.] Unpublished results of survey [carried out for Nature Conservancy Council]. 6p.

(Botanical survey of the Five Watering Sewer and Highnock Channel, 1984-1985.)

Romney Marsh

RJD, NEP.

WHISSON, K. [E.] 1985c Walland Marsh dyke survey. Nature Conservancy Council. [Cited by
Romney Marsh NOT SEEN.

WHISSON, K. E. 1986a *A botanical survey of Dartford Marshes, Kent*. Unpublished report
[prepared for Nature Conservancy Council]. 267p.

(Botanical survey of c.60 ditches at Dartford Marshes, 1986.)

North Kent marshes RJD, NEP.

WHISSON, K. E. 1986b *Channel Tunnel research: South Willesborough site visits*. Unpublished
report [prepared for Nature Conservancy Council]. 8p.

(Botanical survey of 10 ditches at South Willesborough, 1986.)

Kent RJD, NEP.

WILLIAMS, P. [1995a] Botanical survey of Chetney Marshes - 19 & 20/7/94. *In*: [WILLIAMS, P.]
[1995] *Survey and monitoring in Kent. Collected reports 1994*. [Peterborough]: English Nature.
9p. (English Nature research reports no. 140).

(Botanical survey of Chetney Marshes, including 6 ditches, 1994.)

North Kent marshes RJD.

WILLIAMS, P. [1995b] Botanical survey of ditches at Shorne Marshes 1994. *In*: [WILLIAMS, P.]
[1995] *Survey and monitoring in Kent. Collected reports 1994*. [Peterborough]: English Nature.
33p. (English Nature research reports no. 140).

(Botanical survey of 67 ditches at Shorne Marshes in 1994 and a comparison with records
from 1980.)

North Kent marshes RJD.

WILLIAMS, P. [1995c] Comparison of TWINSPAN analysis of Walland Marsh and North Kent
Marshes ESA ditch survey data. *In*: [WILLIAMS, P.] [1995] *Survey and monitoring in Kent.
Collected reports 1994*. [Peterborough]: English Nature. 55p. (English Nature research reports
no. 140).

(Classification of the ditch vegetation at Walland Marsh, based on 525 sample sites visited
in 1993 and 1994, and a comparison with a classification of ditch vegetation in the North
Kent Marshes ESA, based on 449 sample sites visited in 1993.)

Romney Marsh, North Kent marshes RJD.

WILLIAMS, P. 1996 *A survey of ditch flora in the north Kent marshes SSSIs 1995*.
[Peterborough]: English Nature. 4 vols. (English Nature research reports no. 167).

(Botanical survey of 1956 ditches in north Kent, 1994-1995.)

North Kent marshes RJD.

WILLIAMS, P., BANKS, B., CAMERON, R. and COOKE, R. [1994] *Ditch monitoring at Walland
Marsh SSSI 1993/4*. [Peterborough]: English Nature. 127p. (English Nature research reports no.
132).

(Botanical survey of 534 ditches at Walland Marsh in 1993 and 1994 and a review of
changes since 1985.)

Romney Marsh

RJD.

WILLIAMS, P. and WARE, C. [1998] *Ditch communities on the north Kent marshes SSSIs*. [Peterborough]: English Nature. 59p. (English Nature research reports no. 289).

(Classification of the ditch vegetation of the north Kent marshes, based on 1912 sample sites visited in 1995.)

North Kent marshes

RJD.

WILLING, M. J. and KILLEEN, I. J. 1998 *The freshwater snail Anisus vorticulus in ditches in Suffolk, Norfolk and Essex*. [Peterborough]: English Nature. 85p. (English Nature research reports no. 287).

(Survey of aquatic Mollusca in ditches in Broadland (66 sample sites) and in the Arun valley (>50 sample sites), 1997.)

West Sussex, Broadland

RJD.

WILLIS, P. D. 1980 *A macro-invertebrate survey of some drainage dykes at Strumpshaw Fen, with particular reference to discovering the effect of dyke management on macro-invertebrate diversity and density*. Unpublished [undergraduate project], University of East Anglia. 87p.

(Survey of the aquatic fauna in 6 ditches at Strumpshaw in 1979 and an attempt to relate the fauna to the aquatic vegetation.)

Broadland

RJD, NEN.

WILSON, S. E. [1987a] *A preliminary survey of the drainage rhynes of the Gordano valley, Avon*. Unpublished report. 21p. [Two versions. Text later published as WILSON, S. E. 1987 *A preliminary survey of the drainage rhynes of the Gordano valley, Avon. British Ecological Society Bulletin* **18**(4), 243-249.]

(Botanical survey of 528 ditches in the Gordano valley, 1986.)

Avon Levels

RJD, NEP.

WILSON, S. E. 1987b *A preliminary survey of the drainage rhynes of the Gordano valley, Avon. British Ecological Society Bulletin* **18**(4), 243-249.

(Botanical survey of 528 ditches in the Gordano valley, 1986.)

Avon Levels

RJD.

WILSON, S. E. 1990 *Plants and water quality in drainage ditches of the Gordano valley - a preliminary description. Interim report to the Nature Conservancy Council (South-West Region)*. Unpublished report prepared for Nature Conservancy Council. South West Region. 21p.

(Investigation of the relationship between the flora and water chemistry in 16 ditches in the Gordano valley, 1989.)

Avon Levels

RJD, NEP.

WILSON, S. E. 1992 *Plants and water quality in drainage ditches of the Gordano valley - a preliminary description. Final report to the Nature Conservancy Council (South-West Region)*. Unpublished report prepared for Nature Conservancy Council. South West Region. 34p.

(Investigation of the relationship between the flora and water chemistry in 16 ditches in the Gordano valley, 1989-1990.)

Avon Levels

RJD.

[WINGFIELD, M.] 1987 *Hatfield Chase main drain survey. (late May)*. Unpublished results of survey. 11p.

(Botanical survey of several ditches at Hatfield Chase, 1987)

Thorne and Hatfield Moors

RJD.

WINGFIELD, M., STEPHEN, K. and WADE, P. M. 1988 *Recommendations for the conservation of the rarer aquatic plants of Hatfield Chase*. Unpublished report prepared for Seven-Trent Water Authority. 82p.

(Distribution maps of a few aquatic macrophytes in ditches at Hatfield Chase, 1986-1987, and a proposal to transplant species.)

Thorne and Hatfield Moors

RJD, NEY.

WOLFE-MURPHY, S. A., LEACH, S. J. and DOARKS, C. 1991 *A botanical survey of grazing marsh ditch systems on the Suffolk and Essex coasts, 1987*. Unpublished report prepared for Nature Conservancy Council. England Field Unit. 120p. (EFU no. 49).

(Botanical survey of 750 ditches in Essex and Suffolk, 1987.)

Essex coast, Suffolk coast

RJD, NEP.

WOLSELEY, P. [A.] 1988 *Report on Braunton Marshes survey*. Unpublished report [prepared for Nature Conservancy Council]. 24p.

(Botanical survey of 19 ditches at Braunton Marsh, 1987.)

Devon

RJD, NEO.

WOLSELEY, P. A., PALMER, M. A. and WILLIAMS, R. 1984a *The aquatic flora of the Somerset Levels and Moors*. Unpublished report prepared for Nature Conservancy Council. Chief Scientist's Team. 192p. [Later published as WOLSELEY, P. A., PALMER, M. A. and WILLIAMS, R. 1984 *The aquatic flora of the Somerset Levels and Moors*. [Peterborough: Nature Conservancy Council.] 4 microfiches. (CSD report no 545).]

(Botanical survey of ditches on the Somerset Levels in 1982 and a classification of the ditch vegetation based on 512 sample sites visited during 1980-1982.)

Somerset Levels

RJD, NEP.

WOLSELEY, P. A., PALMER, M. A. and WILLIAMS, R. 1984 *The aquatic flora of the Somerset Levels and Moors*. [Peterborough: Nature Conservancy Council.] 4 microfiches. (CSD report no 545).

(Botanical survey of ditches on the Somerset Levels in 1982 and a classification of the ditch vegetation based on 512 sample sites visited during 1980-1982.)

Somerset Levels

RJD, NEP.

WOOD, N. R. 1986 [*Records of Odonata from the Mother Drain, 1955-1986*.] Letter to Sheila [Wright]. 3p.

(Annotated list of Odonata from the Mother Drain, 1955-1986.)

Thorne and Hatfield Moors

RJD, NEP.

W[RIGHT], P. A. 1981 [*Survey of dykes at Ludham Marshes, 28 August 1981.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 4 record sheets + 1 map.

(Botanical survey of several ditches at Ludham Marshes, 1981.)

Broadland

RJD, NEN.

W[RIGHT], P. A. 1982a [*Survey of dykes at Halvergate Marshes SSSI, 7 July 1982.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 6 record sheets. [Incomplete?, lacks map.]

(Botanical survey of several ditches at Halvergate Marshes, 1982.)

Broadland

RJD, NEN.

[WRIGHT, P. A.] 1982b [*Survey of dykes at Ludham Marshes, 1 October 1982.*] Unpublished results of survey [carried out for Nature Conservancy Council]. 1p. [Incomplete?, lacks map.]

(Botanical survey of a few ditches at Ludham Marshes, 1982.)

Broadland

RJD, NEN.

WRIGHT, R. N. 1984 *The macrophyte communities and wildlife conservation value of wet clay drainage ditches in Northamptonshire.* Unpublished M.Sc. thesis, University of Wales, University College of North Wales, Bangor. 57p.

(Botanical survey of 54 ditches in Northamptonshire in 1984 and a classification of the ditch vegetation.)

Northamptonshire

D.

WRIGHT, S. 1986 [*List of Odonata from the Mother Drain at Misterton Soss, 3/4 mile N.E. of Misterton, 5 September 1986.*] Unpublished results of survey. 1 record card.

(A few records of Odonata from the Mother Drain, 1986.)

Thorne and Hatfield Moors

RJD, NEP.

Table 3. Location of items included in the bibliography.

Code	Location
BCE	Centre for Ecology and Hydrology, Monks Wood (originally held in ITE by B. C. Eversham)
CCW	Countryside Council for Wales, Bangor
CD	C. Doarks, Natural England, Norwich
EUL	Ecology Unit, Leicestershire Museums, Art Galleries and Records Service, Leicester
JOM	J. O. Mountford, Centre for Ecology and Hydrology, Monks Wood
KJK	K. J. Kirby, Natural England, Peterborough
NB	Nottinghamshire Biological and Geological Records Centres, Nottingham
NEB	Natural England, Bury St. Edmunds
NEL	Natural England, London
NEN	Natural England, Norwich
NEO	Natural England, Oakhampton
NEP	Natural England, Peterborough
NET	Natural England, Taunton
NEY	Natural England, York
NHN	Natural History Department, Norfolk Museums and Archaeology Service, Norwich
RJD	R. J. Driscoll
RSPB	Royal Society for the Protection of Birds, Sandy
ST	Sussex Wildlife Trust, Henfield
SWT	Suffolk Wildlife Trust, Saxmundham
WH	Sir William Halcrow and Partners Ltd., Swindon

Figure 1. Map showing the areas of England and Wales subject to drainage works and/or flood defence

Numbers indicate the areas listed in Table 1.

