



NATIONAL FEDERATION FOR BIOLOGICAL RECORDING

NEWSLETTER No. 18

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NATIONAL FEDERATION OF BIOLOGICAL RECORDING NEWSLETTER 18

INCORPORATING RECORDER USER GROUP NEWS

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NATIONAL FEDERATION FOR BIOLOGICAL RECORDING

OFFICERS

Chairman

Marie Moreau
22 Rooks Down Road
Badger Farm
Winchester
Hants

Secretary

Nicky Court
Hampshire County Council
The Castle
Winchester
Hants SO23 8UE

Treasurer and Membership Secretary

Charles Copp
8 The Paddock
Cleevdon
Bristol
Avon BS21 6JU

Editor

Phil Collins
8 Angell's Meadow
Ashwell
Baldock
Herts SG7 5QS
01462743026

Articles for the newsletter should be submitted to the editor, preferably on computer disc, either 5.25 or 3.5 in disc in ASCII format, or Windows Word format on DOS compatible discs, or in ASCII on Unix/Xenix format discs. The deadline for the next newsletter is 1st October 1995.

NATIONAL FEDERATION FOR BIOLOGICAL RECORDING

1995 AGM

Notice is hereby given that the 1995 Annual General Meeting will be held on **Friday 3rd November** at The John Clare Theatre, Peterborough Library, Peterborough.

Nominations are invited for Council and should be sent to Nicky Court with the names of the nominee, the proposer and the seconder by **October 2nd 1995**. Nicky Court's address is:

Planning Dept.
Hampshire County Council
The Castle
Winchester
Hampshire SO23 8UE

Notice is hereby given that there will be a vote at the AGM on the following proposal:

The first sentence of Rule 8a of the constitution shall be amended to say "The quorum of a meeting of the Federation shall be 1/10th (one tenth) of the members"...

This proposal is necessary because of the increasing membership of NFBR.

On the same day as the AGM will be held a seminar open to members and non-members. The seminar programme will include presentations by DoE and Biodiversity Challenge followed by a discussion of the requirements of NFBR members. There will also be a Recorder User Group Meeting. Booking forms will be sent at a later date.

CO-ORDINATING COMMISSION FOR BIOLOGICAL RECORDING

Publication of the CCBR report

The CCBR report may seem to many to be akin to the holy grail - something that might exist but for which it is difficult to find any evidence! The final draft report was submitted to the funding organisations at the end of 1994 and subsequently it has been accepted by DoE, JNCC and NERC, after some amendments. The report is to be published by the Department of the Environment in 3 parts, all of which will be available for sale from DoE in the near future.

Summary report

This 27 page report summarises the full report (see below) including the full Recommendations, 6 page Annex describing responses to the CCBR questionnaire survey and a 2 page *Executive Summary* for those with a short attention span!

Full report - Volume 1

Over 140 pages packed with details and information on all aspects of biological recording at local and national levels in the UK. This is essential reading for anyone operating or intending to operate a biological or environmental records centre. The main chapter headings are:

- 1 Background, methods and methodology (of the CCBR project)
- 2 Current state of biological recording in the UK
- 3 Biological records and the law

- 4 Future needs in biological recording
- 5 The essentials of, and potential for, a national system for biological recording
- 6 Implementing a national system for biological recording
- 7 Recommendations.

Full report - Volume 2

This contains 5 appendices to Volume 1 including the full report of the legal consultants and a bibliography of nearly 600 publications and other sources consulted as part of the CCBR project.

Availability of the reports

DOE has made a commitment to CCBR to provide one copy of the Summary Report, free of charge, to all who responded to the CCBR questionnaire survey. Thus, if you filled in and returned one of the vast green forms in 1993/94 you should get a copy.

At present there are no details about costs or availability. Any enquiries concerning cost and availability could be addressed to:

Dr Sarah Webster or Dr Guy Ovenden
Research Branch (EWD 6)
Department of the Environment
Tollgate House
Houlton Street
BRISTOL BS2 9DJ
Tel: 0117 987 8862

BIODIVERSITY ACTION PLAN TASK FORCE

A meeting of the Data Sub Group took place in May. The Group was set up to improve accessibility and co-ordination of existing biological data sets, to provide common standards for future recording and to examine the feasibility of establishing a single UK Biota Database. It is chaired by Roy Walker (JNCC) and reports to the BAP Steering Group.

A number of papers were presented including 'A Summary of the Proposed Information Management Strategy for The Biodiversity Action Plan' by Lawrence Way.

The paper addressed the development of options and stages for the establishment of an

integrated network of biodiversity information sources.

Billy Ely co-ordinated NFBR's response to the paper to JNCC. Most of the comments passed on were taken on board. The final report is expected soon and will be distributed to BAP group members. There is to be a seminar in December to report on the progress of the Action Plan and a launch of BAP 'phase II' is to be held in January.

DoE has put money into the Biodiversity Challenge Group to produce action plans for 129 species and all 35 habitats.

LEGISLATION AND PLANNING NEWS

Countryside Stewardship

MAFF and DoE have published a consultation document detailing proposals for the future of the Countryside Stewardship Scheme and for environmental land management schemes in England. The document is available from: Michael Barbier, MAFF, Room 342, Nobel House, 17 Smith Sq, London SW1P 3JR

DoE consultation on the extension of environmental assessment

A consultation paper has been issued proposing that an environmental statement should be required in planning enforcement appeals. The regulations will prohibit the grant of planning permission for an unauthorised development if an environmental assessment would have been needed for that development.

High Court Guidance on Environmental Information Regulations

The Environmental Information Regulations 1992 SI 1992 No. 3240 provides the public with right of access to a substantial amount of

environmental information held by public bodies. The High Court recently found against British Coal who refused to release information.

Environment Agency

The Environment Bill is currently passing through committee stage in the House of Commons. The DoE have issued draft guidance that will ultimately form the basis of the objectives of the new Environment Agency. The document deals with the Agency's approach to sustainable development, its approach to balancing costs and benefits and to pollution control.

Conservation amendments to Land Drainage Act

The Land Drainage Act 1994 was introduced last September. Local authorities and internal drainage boards are obliged to take into account conservation of the environment when carrying out land drainage activities. On notification by EN or similar bodies local

authorities are now obliged to consult with the notifying body. The act gives the Minister the power to issue instructions to drainage boards when he considers activities are likely to damage features of special interest including flora and fauna.

CONFERENCE REPORTS

DOE WORKSHOP INFORMATION AND INDICATORS TO GIVE AN OVERVIEW OF UK WILDLIFE

March 1995

The workshop formed part of a project commissioned by the DoE which aims to improve the coverage of information presented in the regular series of DoE publications.

The aim of the workshop was to develop a preliminary framework necessary to provide a concise overview of the UK wildlife resource and to develop criteria for identifying a set of wildlife indicators or statistics which reflect the broad state of UK wildlife and countryside.

The meeting resulted in a preliminary framework based on a hierarchical landscape-habitat-species structure:

- a. National statistics summarised in broad landscape types e.g. coastal, true-upland, marginal upland etc.
- b. Landscape types characterised by land cover, landscape pattern and the abundance of broad ranging species.
- c. Data on habitats to be presented in terms of 10 major habitat types based on NCC phase 1 survey that can be sub-divided into the habitats proposed by the Biodiversity Targets Group.
- d. The 10 major habitat groups will be characterised in terms of their habitat composition and species groups. Species groups will be chosen to provide a measure of habitat quality. Where species groups are

inappropriate or impractical then data on individual 'characteristic species' may be used.

e. Species groups and characteristic species should reflect a broad range of plant and animal groups.

f. Data in trends and distribution of individual species, with the exception of the cases described above, will only be used where these reflect broad patterns of change revealed at the landscape and habitat scales.

The next step of the project is for the team to examine existing data and to identify data sets from which key statistics and indicators can be developed. The main output of the project team will be an outline chapter for a future 'UK Environment' report. This will aim to provide a broad and balanced overview of the health of the UK countryside in terms of the state and trends in wildlife and habitats.

The project team is led by ITE and includes BTO, IFE, the University of Bristol, Rothamstead Experimental Station. Use will also be made of the CCBR database.

LOCAL CENTRE NEWS

HERTFORDSHIRE ENVIRONMENTAL RECORDS CENTRE (HERC)

As records centres go, HERC may not be one of the largest, but in its four years of existence it has come to be a fundamental part of the effort to conserve the natural environment in this heavily developed part of the country.

HERC was established as an extension of museum based activity in 1990, and is currently housed alongside North Hertfordshire Museum Service at Hitchin. Its core function is to maintain and develop the ecological database for the county. Operating under the auspices of the Hertfordshire County Council's Planning and Environment Department, it receives support and funding from the County Council and most District Councils. The database includes detailed site-related information as well as extensive flora and fauna records. Sites are identified according to the principle of "management units", and can range in size from extensive commons down to individual ponds or lengths of road verge. These sites have their boundaries entered onto a series of 1:10,000 maps, have a folder with all relevant information and their details are then computerised using RECORDER 3.2.

In addition to 'in house' survey data and extensive data sets inherited from its museum service predecessors, HERC receives data from a range of private individuals and organisations, in particular the Hertfordshire Natural History Society and its county recorders, including the Herts. Bird Club, the Herts and Middx. Wildlife Trust Badger Group and the Herts. and Middx. Bat Group. Staff at HERC are also actively involved with these voluntary groups in their spare time and help to co-ordinate biological recording in the county.

Data is supplied by people in the knowledge that it will be actively applied for conservation purposes. A substantial amount of HERC work is planning related, and advice is given which can help in site protection through development control, input into structure and local plans, and influence on the management of a site. Data is also provided to various bodies such as English Nature, conservation and voluntary bodies, the National Rivers Authority, university students and other educational establishments. Only with requests from commercial enterprises or non-sponsoring authorities does HERC make a charge, which is for time spent in preparing responses, and not for the data itself. In some cases, information is provided free of charge as part of an exchange arrangement with another organisation.

At present, most records are still mainly stored in manual form, but almost 10,000 species records have been computerised. The work on this is concentrating on certain taxonomic groups at a time. These include all reptile and amphibian records since 1970, all of the Bat Group's records, and a large proportion of the other mammal records. Bird records are supplied independently by the Bird Club using their own computer programme, which has been made available to the Centre by the Club. About 4000 sites have also been computerised, representing approx. 2/3 of the total sites in the database. Quite a number of these sites have a number of sub-sites also recorded.

Species records have been computerised with as much detail as possible. This has benefited the Bat Group in particular, who have found it useful to extract a range of different records in different ways: e.g. hibernation sites, roosts with nursery colonies, records of injured bats,

feeding records using bat detectors etc. In the RECORDER package, the substrate keyword section proved useful when entering bat records from roost report forms. Statements such as timber treatment, building works, barn conversion etc. and further details such as bat access points, or exact roosting location were entered in the comments section. Computerisation of the species records has enabled a register of key sites for different species groups to be compiled, thereby helping to focus conservation efforts on these sites. Key bat sites for example have been fed into several of the county's local District plans and included in their Proposals Maps.

Feedback to the various recorders is supplied through the production of species reports and distribution maps. Maps are produced using the DMAP link to RECORDER which can then be exported to software such as WORD for WINDOWS for publications.

HERC also works closely with the Countryside Management Service in the county whose staff complete Event Forms

when visiting or working on a site. These are then computerised into the Events Table in RECORDER.

Projects to be developed in the near future include the computerisation of bryophytes records from Hertfordshire and co-operation with the Hertfordshire Natural History Society over the production of a Red Data Book for Hertfordshire.

HERC is now also associated with the County Archaeology Unit and certain Landscape functions as part of an embryonic Hertfordshire Environmental Information Service. The need to link information between academic disciplines has led HERC to explore the downloading of RECORDER site information onto an ARCINFO geographical information system. This will eventually enable planners and researchers to access all relevant information about a locality through one interlinked system. The possibility of providing this data to off-site users through distant links is also being looked into.

Jenny Jones HERC.

SURVEYS

MAMMAL SOCIETY FAT DORMOUSE ENQUIRY

A joint survey is being carried out by the Mammal Society, Buckinghamshire County Council and Hertfordshire Environmental Records Centre.

Survey forms are available from the Society at

15 Cloisters Business Centre
8 Battersea Park Road
London SW8 4BG

Tel: 0171 498 4358
Fax: 0171 498 4459

RECORDER USER GROUP

RECORDER USER GROUP MEETING

Wednesday 22nd March 1995 Peterborough Library.

During the morning Keith Porter explained English Nature's role in the administration of Recorder. English Nature is fully committed to the use of Recorder as a standard and would like to build up the links between the Local Biological Record Centres and their Regional English Nature Officers. The types of data needed by English Nature include:

- a. Species - Key Species, Protected Species, Character Species, Extinct Species and Indicator Species
- b. Habitats - Semi-natural Habitats
- c. Earth Sciences - Geology and Land Form

There was some discussion about entering geological data which is not covered by Recorder at the moment. It may be possible in the future to link Recorder into software being used by the Geological Survey.

Stuart Ball gave a progress report on the use of Recorder version 3.2 which at that time had been sent out to 291 registered users, with a big increase in individual users. Some software problems were apparent in the initial distribution. These have been resolved in version 3.21.

Recorder version 4 should be released late 1995/early 1996. It will be issued in several upgrade steps as the different elements are completed. The version will include import/export routines, a manual and a tutorial disc. **This will mark the end of development of Recorder using a DOS platform. Further development will occur using a graphical user interface** such as Windows. It was thought important that Recorder should have a more 'open' architecture to make connectivity to other software easier.

During the remainder of the day, people were given the opportunity to browse through the new manual (shortly to be distributed), watch Recorder version 3.2 in action, quiz Stuart on any problems and join in general discussions. During the afternoon brief talks were also given by Martin Sanford of the Suffolk Biological Records Centre and John Stafford from the Isle of Wight.

RECORDER NEWS

Progress with Recorder

Recorder 3.2 was released in October 1994. The package included options for:

- new installation of Recorder 3.2 including a runtime copy of Advanced Revelation
- installation of Recorder 3.2 using an existing copy of Advanced Revelation
- upgrading an existing, earlier version of Recorder to version 3.2

Problems with the upgrade

It became clear by November 1994 that some users were experiencing problems upgrading earlier versions of Recorder to 3.2. The problems were:

- the upgrade did not work with Advanced Revelation 3
- some people found that their report templates were lost in the upgrade process
- some records (mainly of fungi and flowering plants) were either attached to the wrong species, or to no species at all, following the upgrade.

Problems with Recorder 3.2

With large numbers of copies of Recorder 3.2 in use, there have been plenty of bug reports (mostly minor) and many suggestions for changes and improvements. Only two serious bugs have come to light:

- machine locking up when trying to access the SITES table for some subsites fairly deep in the site/subsite hierarchy (usually level 5 or more), or returned a truncated site ID
- the "switch" utility corrupted records when used to change PERSONAL or LITERATURE IDs in records containing a multivalued list of such IDs

Thankfully, these are fairly obscure problems which seem to have affected very few users (two in the first case and one in the second) that we know of.

Fixes

A maintenance update was written (Recorder 3.21) which fixes the bugs which have been reported and makes a number of the suggested changes and improvements. It also contains some SPECIES table updates.

Two of the files used in the process to upgrade earlier versions of Recorder to version 3.2 have been corrected and the process now:

- works with all versions of Recorder from 2.31 to 3.1 on Advanced Revelation versions from 1.1 to 3.0.
- makes sure that enough memory is available to complete the upgrade process before it starts
- fixes the problems which left some records attached to the wrong species or no species at all

What you need to do

- If you are a user of an earlier version of Recorder - buy an upgrade now!
- If you bought the upgrade package in 1994, but have not yet received it - you should receive a corrected copy soon
- If you bought the upgrade package in 1994, but have not yet run the upgrade process, return disks 1 and 8 to English Nature so that the relevant files can be replaced with the corrected versions
- If you upgraded an earlier version of Recorder to version 3.2 in 1994, there is a programme called CHECKUP on the maintenance disk which will check your records to see if they were effected by the upgrade problems
- If you bought Recorder 3.2 either from scratch or as an upgrade to an earlier version, you should have received the maintenance disk to update you to version 3.21.

The future

Documentation for Recorder 3.21 is messy and in several pieces. As part of the support contract with English Nature, the Wildlife Trusts are in the process of writing an single, integrated user manual and a tutorial to accompany it. The tutorial consists of an example data set and a series of work sheets which take you through exercises using the example data.

The security system in Recorder is currently incomplete in that it provides for records to be flagged as confidential, and these are usually left out of reports generated from the menus unless you specify otherwise. However, users who should not have access are not actually prevented from viewing such records if they use Advanced Revelation facilities. A security system which prevents unauthorised access by any means (even direct use of the Advanced Revelation editor) has been written. It also includes facilities to mark sites and species as confidential, in which case all records attached to such a site or species will automatically become confidential.

It is hoped to issue another maintenance disk with the manual, later this year, which will implement the tutorial and the security system.

Stuart Ball
May 1995

AUNTY STUART'S PROBLEM PAGE

A question I get asked frequently is "how do I get simple summary statistics out of Recorder?". This usually amounts to counting occurrences of particular categories of data, or computing totals and sub-totals. For example: how many records did I get of each species of dragonfly last year or how many dragonfly species do I have records for?

Some of these questions can be tackled using the TCL command COUNTROWS (just COUNT in Advanced Revelation versions before 3.0). For example,:

```
COUNTROWS SPECIES WITH BRC_ORDER = 6411 AND WITH N_RECORDS > 0
```

will report how many species of dragonfly (BRC Order number 6411) you have records for on your database. But this command does not allow you to produce sub-totals, which is what is usually required.

BREAK-ON is the crucial R/List keyword you need to know about. BREAK-ON allows you to produce a sub-total in a report when the value in a specified column changes.

The first thing that you must remember is that sorting is vital when you use BREAK-ON. As records are encountered by R/List, the value of the BREAK-ON column will be evaluated and, if it is different from the last value, a sub-total report will be produced. If the records are not sorted by the BREAK-ON column, then you will get nothing sensible!

The second thing you need to know is that there are R/List keywords like TOTAL and AVERAGE which work with BREAK-ON to compute sub-totals for numeric columns.

To see what BREAK-ON does, let's look at an example. Here are five (made up) records showing the record key, FULL_NAME, DATE, LOCALITY and ABUNDANCE

123	Coenagrion puella	12 MAY 1994	Cross Ditch	50
23	Aeshna cyanea	27 JUL 1994	Holme Fen	5
43	Aeshna cyanea	03 AUG 1994	Garden pond	1
56	Coenagrion puella	12 JUN 1994	Holme Fen	7
891	Aeshna cyanea	17 AUG 1994	Garden Pond	1

We can use BREAK-ON and TOTAL to produce a sub-total when the FULL_NAME field changes (not forgetting to sort by FULL_NAME!):

```
LIST RECORDS BY FULL_NAME BREAK-ON FULL_NAME DATE LOCALITY TOTAL ABUNDANCE
```

23	Aeshna cyanea	27 JUL 1994	Holme Fen	5
43	Aeshna cyanea	03 AUG 1994	Garden pond	1
891	Aeshna cyanea	17 AUG 1994	Garden Pond	1
***				7
123	Coenagrion puella	12 JUN 1994	Holme Fen	50
56	Coenagrion puella	12 MAY 1994	Cross Ditch	7
***				57
***				64

Note that BREAK-ON has inserted 3 additional lines in the report where the value of FULL_NAME changed and inserted "****" in the BREAK-ON column. The TOTAL keyword has computed a subtotal (and also a grand total in the last line - note the "****" is in the key column in this row).

It is possible to over-ride the rather un-inspiring default text "****" by specifying optional text for BREAK-ON in double quotes ("").

LIST RECORDS BY FULL_NAME BREAK-ON FULL_NAME "Species = 'V'" DATE LOCALITY TOTAL ABUNDANCE

23	Aeshna cyanea	27 JUL 1994	Holme Fen	5
43	Aeshna cyanea	03 AUG 1994	Garden pond	1
891	Aeshna cyanea	17 AUG 1994	Garden Pond	1

Species = Aeshna cyan				7
-----------------------	--	--	--	---

123	Coenagrion puella	12 JUN 1994	Holme Fen	50
56	Coenagrion puella	12 MAY 1994	Cross Ditch	7

Species = Coenagrion p				57
------------------------	--	--	--	----

***				64
-----	--	--	--	----

Note that the option specified for BREAK-ON has replaced the "****" with the "Species = " and the V switch within the option (in single quotes) placed the value of the BREAK-ON column in the text (which was then truncated to the width of the BREAK-ON column). Several more switches are available for BREAK-ON (see box), another useful one is L which suppresses one of the blank lines from the sub-total report.

The keyword DET-SUPP suppresses the detail lines in the report, leaving only the sub-total lines. Thus:

B	Inserts the value of the breaking column into the page header when used in conjunction with the HEADING 'B' option
D	suppress sub-total report if the preceding section contains only one row
L	suppress blank line which usually precedes the sub-total report
P	start a new page after each break
U	prints a line over the subtotal
UU	prints a line over and under the subtotal
V	prints the value of the breaking column

LIST RECORDS BY FULL_NAME BREAK-ON FULL_NAME ""VL"" TOTAL ABUNDANCE DET-SUPP

Aeshna cyanea	7
---------------	---

Coenagrion puella	57
-------------------	----

***	64
-----	----

Note that no text was specified in the BREAK-ON option, but we still need the double quotes round the whole option as well as single quotes round the V and L switches - hence the rather odd construct ""VL"".

Armed with this knowledge, let us tackle the question of "how many records did I get of each species of dragonfly last year". First we need to SELECT the relevant records, so, from the main menu, select **Filter-Select**, then

```
SELECT RECORDS WITH YEAR = 1994 AND WITH SP_CODE STARTING "6411"
```

[Esc] to return to the main menu and select **Reports - R/List**, then

```
LIST RECORDS BY SP_CODE BREAK-ON FULL_NAME "VL" TOTAL COUNT DET-SUPP
```

But, you are saying, we did not sort on the BREAK-ON column (FULL_NAME), but on something else (SP_CODE)! This works correctly because there is a 1:1 relationship between SP_CODE (the taxonomic sorting code of a species) and FULL_NAME (its scientific name) - we are sorting them into checklist order, but reporting the name.

Secondly, what is COUNT? it is not a column in the RECORDS table! In fact, COUNT is defined in the VOC table (and is therefore available for use with any table) and simply returns the value 1. Therefore TOTAL COUNT counts records - which is what we want. Applied to this particular set of 5 records this R/List command would produce:

Coenagrion puella	2
Aeshna cyanea	3
***	5

Warning: as we have seen the text produced by BREAK-ON or TOTAL is formatted according to the format of the column it is applied to, and if the value will not fit it is truncated. It is quite easy to get caught out by this when using TOTAL and end up with a spurious result. For example, we might think that the number of records per species is not going to exceed a few hundred, so the format "R#3" (right justified in three columns) is appropriate, forgetting that summed over many species, the grand-total is likely to be in the thousands. If the total was actually 1618, but was truncated to "618" - would you spot that something was wrong?

It is quite possible to have more than one BREAK-ON and/or TOTAL columns in a report. As a little exercise, try counting the number of post-1980 records of your favourite group on your database by species and by 10km square and species.

Creative use of BREAK-ON and TOTAL can provide many simple summary statistics from Recorder and, by reporting to a text file, can produce fixed column ASCII files which, following a bit of tidying up in a text editor, can easily be imported into spreadsheets for more complex analysis.

Stuart Ball
May 1995

RECORDER SUPPORT

Please note that all support calls until further notice should be directed to RSNC:

Telephone:	01522 544400
Fax:	01522 511616
Letters	The Wildlife Trusts, The Green, Witham Park, Waterside South, Lincoln LN2 5JR

Problems obtaining the upgrade to Recorder should be addressed to Rory Key at English Nature.

NFBR PUBLICATIONS

NEWSLETTERS

Back numbers of NFBR Newsletters are available from the editor.

CONFERENCE PROCEEDINGS

The 1993 NFBR Conference Proceedings have been published and are distributed as a separate document with this newsletter.

Proceedings of the 1991 NFBR Conference, **Invertebrates in the landscape : invertebrate recording in site evaluation and countryside monitoring** have now been published by the British Entomological and Natural History Society as a supplement to the British Journal of Entomology and Natural History as Vol. 7, Supp 1, Harding, P. (ed), Feb 1994, ISSN 0952 7583. Copies are available from R.D. Hawkins, Sales Secretary, 30d Meadowcroft Close, Horley, Surrey RH6 9EL.

All other published conference proceedings, 1985-87 & 1989, are available from Paul Harding, ITE Monks Wood, Abbots Ripton, Huntingdon, Cambs PE17 2LS.

SEMINAR PROCEEDINGS

Proceedings of the 1994 Seminar, 'Action on Diversity' are to be published separately and will be distributed to all members.

MEMBERSHIP LEAFLETS

New membership leaflets are now available. In addition a membership form is printed on the last page of this edition of the newsletter.

RECENT PUBLICATIONS

Environmental Assessment

Guidelines for Baseline Ecological Assessment. 1995, Institute of Environmental Assessment.

Digest of Environmental Statements, 1993
Sweet and Maxwell
Volume 3 1995 now available.

Environmental Assessment, English Nature's
Role and a guide to Best Practice.

Ecological Assessment, Treweek, J. due June
1995, £22.50

Directories

Who's who in the environment: England 1995,
Environment Council, 21 Elizabeth Street,
London SW1Y 9RP £10.00 + 2.50 p & p.

Habitat conservation

Hedgerow Management & Nature
Conservation, Watt, T.A & Buckley G.P.
(eds), Wye College Press, 1994, £24.50 ISBN
0 86266 037 8

The ecology of woodland creation. Ferris-
Kaan, R. (ed), John Wiley & Sons Ltd, 1995,
£45.00, ISBN 0 471 95484 5.

Farming & Wildlife - a practical management
handbook. Andrews, J. & Rebane, M. RSPB,
1994, £21.99

Botanical Surveys for conservation and land
management, Stern, P. & Ashton, P., due Sept
1995

Guidelines for the Selection of Biological
SSSIs, JNCC, reprint 1995, £25.00

Managing habitats for conservation,
Sutherland, W.J., Hill, D.A. (eds), CUP, 1995
£17.95 pbk

Natural Woodland, Peterken, G. CUP due Oct
1995, £24.95 pbk

Sand Dune & Vegetation Survey of Great
Britain, JNCC, 3 part set, 1995, £55.00

Environmental Law

The Habitats Directive: How it will apply in
Great Britain. 1995, DoE/SO: available from:
Susan Davies, Biotopes Branch, JNCC,
Monkstone Ho. City Road, Peterborough PE1
1JY

Town & Country Planning (Environmental
Assessment and Permitted Development)
Regulations 1995 (Statutory Instrument
1995/417) HMSO, London

Department of the Environment Circular 3/95.
Permitted Development & Environmental
Assessment, HMSO, London.

Environmental Law, Warren, L.M., Gibson, J,
1995, £41.00

Marine

Handbook of the marine fauna of NW Europe,
Hayward, P. & Ryland, S (eds), OUP, 1995,
£29.50

Invertebrates

True bugs of the world (Hemiptera:
Heteroptera), Schuh, R. & Slater, A, Cornell
UP, 1995, £68.50

Collins field guide to the spiders of Britain & Europe, Roberts, M., Harper Collins, 1995, £14.95

Atlas of Dragonflies of Britain & Ireland, Eversham, B. (ed), 1995, £16.50

Butterflies of Wiltshire, Fuller, M. due Nov 1995, £22.50

Flora

International Code of Botanical Nomenclature 1994. Greuter, W. & McNeill, J, 1994, £49.95

Alien Plants of the British Isles, Clements, E.J. & Foster, M.C, 1994, £18.00

The Fern Guide, Merryweather, J. & Hill, M. 2nd edition, 1995

Field guide to mushrooms & toadstools of Britain & Europe, Courtecuisse, R, & Duhem, B. Harper Collins, due Sept 95, £ 14.99

History & Ecology of the British Flora, Ingrouille, M. 1995, £24.99

Lichen Atlas of the British Isles, Seaward, M. (ed), British Lichen Society, 1995

A new key to wild flowers, Hayward, J., CUP, 2nd edition 1995

A sample survey of the flora of Britain, Palmer, M.A. & Bratton, J. (eds), JNCC, 1995, £40.00

Scarce plants in Britain, Stewart, A, Pearman, D & Preston, C. (eds) JNCC, 1994, £34.00

British Plant Communities, Volume 4 Aquatic communities, swamps and tall herb fens. Rodwell, J. (ed), cup, 1995

Volume 5 Maritime & weed communities due Sept 95.

NRA Research & Development Project Publications

A guide to understanding and management of Salt Marshes, NRA, Project No.444 Note 324 £50.00

Species management in aquatic habitats Phase I Project 461 Note 285, Digest 199 NRA

From Water Research, Allen House, The Listons, Liston Road, Marlow, Bucks SL7 1FD Tel: 01628 891589

A full list of NRA R7D reports is available from the R&D Section, Head Office, Rivers House, Waterside Drive, Almondsbury, Bristol BS12 4UD

SOFTWARE

EcoBase Directory of environmental organisations in the UK & Ireland

Peter Berry Associate, Pwllfan, Llansadwryn, Llanwrda, Dyfed SA19 8LS Tel 01550 777661 £40.00 + VAT

Natural History Book Service World Wide Webb Site

The Natural History Book Service now has a World Wide Webb Site, at <http://www.nhbs.co.uk>

This includes NHBS BookNet giving access to a searchable database of over 40,000 books, videos etc. For details contact NHBS Ltd 2-3 Wills Road, Totnes, Devon TQ9 5XN Tel 01803 865913 Email nhbs@nhbs.co.uk

EVENTS

ASSOCIATION OF LOCAL GOVERNMENT ECOLOGISTS

12th October 1995, Guildhall, Winchester.

ALGE in conjunction with English Nature and Hampshire County Council have organised a conference celebrating European Nature Conservation Year.

Confirmed speakers include Janice Mophet, Secretary of SERPLAN, Michael Jacobs, senior research fellow in the Centre for the Study of Environmental Change at Lancaster and author of the Green Economy; David Tyldesley, well known planning and environmental consultant and Ken Brown of Somerset County Council.

The provisional programme includes sessions on:

The role of local authorities
Sustainable development
Biodiversity
The European dimension
PPG9 Nature Conservation
Agenda 21

Details from:

David Pape
ALGE Chairman
Planning Dept
Hampshire County Council
The Castle
Winchester
Hampshire SO23 8UE
Tel 01962 846739

ALGE membership details from:

Steve Moon
Membership Secretary
Kenfig National Nature Reserve
The Reserve Centre
Ton-Kenfig
Pyle
Mid Glamorgan TF33 4PT

EVENTS

6-8/9/95 2nd International Symposium of Butterfly Conservation

Details from: Andrew Pullin, Dept of Biological Science, Keele University, Staffs ST5 5BG

11-12/9/95 5th European Environment Conference. Nottingham

Details from Conference Office, Tel: 01274 530408

11-14/9/95 Remote Sensing in Action, conference and exhibition.

Details from: Dr Y. C. Robertson, Conference Manager, Dept of Oceanography, University of Southampton, Southampton SO17 1BJ, Tel: 01703 592259

14/9/95 Forests and Insects, Natural History Museum

Details from: G. G. Bentley, Registrar RES, 41 Queen's Gate, London SW7 5HR Tel: 0171 584 8361

10-16/9/95 39th Symposium of the International Association of Vegetation Science and Landscape Ecology.

Details from: Unit of Vegetation Science, Lancaster University, Lancaster LA1 4YQ, Tel: 01524 65201 ext 3564

20/9/95 Landfill and Nature Conservation Gain.

Details from: Gill Giles, ICOLE, Loughborough University, Loughborough LE11 3TU, Tel: 01509 223030

21-22/9/95 IEEM AGM and conference
Ecology and Environmental Management in Europe

Details from: Sue Everett, IEEM, 36 Kingfisher Court Hambridge Rd, Newbury, Berks RG14 5SJ

27/9/95 Re-creation and Management of Reedbeds. N. Somerset

Details from: Dr M Auld, RSPB, 10 Albyn Terrace, Aberdeen AB1 1YB. Tel: 0112 624 824

27/9/95 Upland and Lowland Heath and Acid Mires: Management Revitalisation and Restoration. Ness Gardens

Details from: Dr O. Putwain, Dept of Environmental & Evolutionary Biology, University of Liverpool, PO Box 147, Liverpool L69 3BX, Tel: 051 794 5097

11/10/95 Habitat fragments and corridors: Training workshop. Bristol

Details from IEEM as above.

25-27/10/95 UK Floodplains Conference. London

Details from: The meetings Officer, The Linnean Society, Burlington House, Piccadilly, London W1V 0LQ, Tel: 0171 434 4479

27/10/95 Breckland: Looking to the Future. Bury St Edmunds

Details from: English Nature, Norman Tower House, 1-2 Crown St, Bury St Edmunds, Suffolk IP33 1QX, Tel: 01284 762218

1//1/95 English Nature Species Recovery Programme. Peterborough

Details from Dr R Mitchell, EN, Northminster House, Peterborough PE1 1UA

3/11/95 NFBR AGM and Seminar

The John Clare Theatre, Peterborough Library, Peterborough.

5/12/95 Interpreting botanical surveys: Training workshop. Richmond, Surrey

Details from: IEEM as above.