



**THE UNITED
KINGDOM ACID
WATERS
MONITORING
NETWORK**

**DATA REPORT
FOR 2007– 2008
(YEAR 20)**



**THE UNITED KINGDOM ACID WATERS
MONITORING NETWORK
DATA REPORT FOR 2007 – 2008 (YEAR 20)**

Report to the Department for Environment, Food and Rural Affairs
(Contract EPG 1/3/160)

2009

Editors

E. M. Shilland¹
D. T. Monteith¹
M. Hutchins²

¹ENSIS Ltd
²CEH Wallingford

Cover photograph: Loch Chon © Ewan Shilland.

1. TABLE OF CONTENTS

1.	TABLE OF CONTENTS	3
2.	INTRODUCTION	10
3.	THE MONITORING NETWORK.....	10
4.	DATA FORMAT	12
5.	REFERENCES	ERROR! BOOKMARK NOT DEFINED.
6.	LOCATION OF UKAWMN SITES	15
7.	SITE DATA.....	16
7.1	Loch Coire nan Arr	16
7.1.1	Spot sampled chemistry data	16
7.1.2	Macroinvertebrate data	17
7.1.2.1	Percentage abundance summary, Loch Coire nan Arr	17
7.1.2.2	Summary statistics, Loch Coire nan Arr	18
7.1.3	Fish data (for outflow stream)	19
7.1.3.1	Summary of mean Trout density (numbers 100m ⁻²), Loch Coire nan Arr	19
7.1.4	Epilithic diatom data	20
7.1.4.1	Percentage abundance summary, Loch Coire nan Arr	20
7.1.4.2	Summary statistics, Loch Coire nan Arr	21
7.1.5	Aquatic macrophyte data, Loch Coire nan Arr	22
7.1.6	Sediment trap data, Loch Coire nan Arr	23
7.2	Allt a'Mharcaidh	24
7.2.1	Spot sampled chemistry data	24
7.2.2	Macroinvertebrate data	25
7.2.2.1	Percentage abundance summary, Allt a'Mharcaidh	25
7.2.2.2	Summary statistics, Allt a'Mharcaidh	26
7.2.3	Fish data	27
7.2.3.1	Summary of mean Salmon density (total numbers 100m ⁻²), Allt a'Mharcaidh	27
7.2.3.2	Summary of mean Trout density (numbers 100m ⁻²), Allt a'Mharcaidh	27
7.2.4	Epilithic diatom data	28
7.2.4.1	Percentage abundance summary, Allt a'Mharcaidh	28
7.2.4.2	Summary statistics, Allt a'Mharcaidh	29
7.2.5	Aquatic macrophyte data, Allt a'Mharcaidh	30
7.3	Allt na Coire nan Con	31
7.3.1	Spot sampled chemistry data	31
7.3.2	Macroinvertebrate data	32

7.3.2.1	Percentage abundance summary, Allt na Coire nan Con	32
7.3.2.2	Summary statistics, Allt na Coire nan Con	33
7.3.3	Fish data	34
7.3.3.1	Summary of mean Salmon density (total numbers 100m ⁻²), Allt na Coire nan Con	34
7.3.3.2	Summary of mean Trout density (numbers 100m ⁻²), Allt na Coire nan Con	34
7.3.4	Epilithic diatom data	35
7.3.4.1	Percentage abundance summary, Allt na Coire nan Con	35
7.3.4.2	Summary statistics, Allt na Coire nan Con	36
7.3.5	Aquatic macrophyte data, Allt na Coire nan Con	37
7.4	Lochnagar	38
7.4.1	Spot sampled chemistry data	38
7.4.2	Macroinvertebrate data	39
7.4.2.1	Percentage abundance summary, Lochnagar	39
7.4.2.2	Summary statistics, Lochnagar	40
7.4.3	Fish data (for outflow stream)	41
7.4.3.1	Summary of mean Trout density (numbers 100m ⁻²), Lochnagar	41
7.4.4	Epilithic diatom data	42
7.4.4.1	Percentage abundance summary, Lochnagar	42
7.4.4.2	Summary statistics, Lochnagar	43
7.4.5	Aquatic macrophyte data, Lochnagar	44
7.4.6	Sediment trap data, Lochnagar	45
7.4.7	Thermistor data, Lochnagar	46
7.4.8	Weather station data, Lochnagar	47
7.5	Loch Chon	50
7.5.1	Spot sampled chemistry data	50
7.5.2	Macroinvertebrate data	51
7.5.2.1	Percentage abundance summary, Loch Chon	51
7.5.2.2	Summary statistics, Loch Chon	52
7.5.3	Fish data (for outflow stream)	53
7.5.3.1	Summary of mean Trout density (numbers 100m ⁻²), Loch Chon	53
7.5.4	Epilithic diatom data	54
7.5.4.1	Percentage abundance summary, Loch Chon	54
7.5.4.2	Summary statistics, Loch Chon	55
7.5.5	Aquatic macrophyte data, Loch Chon	56
7.5.6	Sediment trap data, Loch Chon	57
7.5.7	Thermistor data, Loch Chon	58
7.6	Loch Tinker	59
7.6.1	Spot sampled chemistry data	59
7.6.2	Macroinvertebrate data	60
7.6.2.1	Percentage abundance summary, Loch Tinker	60
7.6.2.2	Summary statistics, Loch Tinker	61
7.6.3	Fish data (for outflow stream)	62
7.6.3.1	Summary of mean Trout density (numbers 100m ⁻²), Loch Tinker	62

7.6.4	Epilithic diatom data	63
7.6.4.1	Percentage abundance summary, Loch Tinker	63
7.6.4.2	Summary statistics, Loch Tinker	64
7.6.5	Aquatic macrophyte data, Loch Tinker	65
7.6.6	Sediment trap data, Loch Tinker	66
7.6.7	Thermistor data, Loch Tinker	67
7.7	Round Loch of Glenhead	68
7.7.1	Spot sampled chemistry data	68
7.7.2	Macroinvertebrate data	69
7.7.2.1	Percentage abundance summary, Round Loch of Glenhead	69
7.7.2.2	Summary statistics, Round Loch of Glenhead	70
7.7.3	Fish data (for outflow stream)	71
7.7.3.1	Summary of mean Trout density (numbers 100m ⁻²), Round Loch of Glenhead	71
7.7.4	Epilithic diatom data	72
7.7.4.1	Percentage abundance summary, Round Loch of Glenhead	72
7.7.4.2	Summary statistics, Round Loch of Glenhead	73
7.7.5	Aquatic macrophyte data, Round Loch of Glenhead	74
7.7.6	Sediment trap data, Round Loch of Glenhead	75
7.7.7	Thermistor data, Round Loch of Glenhead	76
7.8	Loch Grannoch	77
7.8.1	Spot sampled chemistry data	77
7.8.2	Macroinvertebrate data	78
7.8.2.1	Percentage abundance summary, Loch Grannoch	78
7.8.2.2	Summary statistics, Loch Grannoch	79
7.8.3	Fish data (for outflow stream)	80
7.8.3.1	Summary of mean Trout density (numbers 100m ⁻²), Loch Grannoch	80
7.8.4	Epilithic diatom data	81
7.8.4.1	Percentage abundance summary, Loch Grannoch	81
7.8.4.2	Summary statistics, Loch Grannoch	82
7.8.5	Aquatic macrophyte data, Loch Grannoch	83
7.8.6	Sediment trap data, Loch Grannoch	84
7.8.7	Thermistor data, Loch Grannoch	85
7.9	Dargall Lane	86
7.9.1	Spot sampled chemistry data	86
7.9.2	Macroinvertebrate data	87
7.9.2.1	Percentage abundance summary, Dargall Lane	87
7.9.2.2	Summary statistics, Dargall Lane	88
7.9.3	Fish data	89
7.9.3.1	Summary of mean Trout density (numbers 100m ⁻²), Dargall Lane	89
7.9.4	Epilithic diatom data	90
7.9.4.1	Percentage abundance summary, Dargall Lane	90
7.9.4.2	Summary statistics, Dargall Lane	91

7.9.5	Aquatic macrophyte data, Dargall Lane	92
7.10	Scoat Tarn	93
7.10.1	Spot sampled chemistry data	93
7.10.2	Macroinvertebrate data	94
7.10.2.1	Percentage abundance summary, Scoat Tarn	94
7.10.2.2	Summary statistics, Scoat Tarn	95
7.10.3	Fish data (for outflow stream)	96
7.10.3.1	Summary of mean Trout density (numbers 100m ⁻²), Scoat Tarn	96
7.10.4	Epilithic diatom data	97
7.10.4.1	Percentage abundance summary, Scoat Tarn	97
7.10.4.2	Summary statistics, Scoat Tarn	98
7.10.5	Aquatic macrophyte data, Scoat Tarn	99
7.10.6	Sediment trap data, Scoat Tarn	100
7.10.7	Thermistor data, Scoat Tarn	101
7.11	Burnmoor Tarn	102
7.11.1	Spot sampled chemistry data	102
7.11.2	Macroinvertebrate data	103
7.11.2.1	Percentage abundance summary, Burnmoor Tarn	103
7.11.2.2	Summary statistics, Burnmoor Tarn	104
7.11.3	Fish data (for outflow stream)	105
7.11.3.1	Summary of mean Trout density (numbers 100m ⁻²), Burnmoor Tarn	105
7.11.4	Epilithic diatom data	106
7.11.4.1	Percentage abundance summary, Burnmoor Tarn	106
7.11.4.2	Summary statistics, Burnmoor Tarn	107
7.11.5	Aquatic macrophyte data, Burnmoor Tarn	108
7.11.6	Sediment trap data, Burnmoor Tarn	109
7.11.7	Thermistor data, Burnmoor Tarn	110
7.12	River Etherow	111
7.12.1	Spot sampled chemistry data	111
7.12.2	Macroinvertebrate data	112
7.12.2.1	Percentage abundance summary, River Etherow	112
7.12.2.2	Summary statistics, River Etherow	113
7.12.3	Fish data	114
7.12.4	Epilithic diatom data	114
7.12.4.1	Percentage abundance summary, River Etherow	114
7.12.4.2	Summary statistics, River Etherow	115
7.12.5	Aquatic macrophyte data, River Etherow	116
7.13	Old Lodge	117
7.13.1	Spot sampled chemistry data	117
7.13.2	Macroinvertebrate data	118
7.13.2.1	Percentage abundance summary, Old Lodge	118
7.13.2.2	Summary statistics, Old Lodge	119
7.13.3	Fish data	120
7.13.3.1	Summary of mean Trout density (numbers 100m ⁻²), Old Lodge	120

7.13.4	Epilithic diatom data	121
7.13.4.1	Percentage abundance summary, Old Lodge	121
7.13.4.2	Summary statistics, Old Lodge	122
7.13.5	Aquatic macrophyte data, Old Lodge	123
7.14	Narrator Brook	124
7.14.1	Spot sampled chemistry data	124
7.14.2	Macroinvertebrate data	125
7.14.2.1	Percentage abundance summary, Narrator Brook	125
7.14.2.2	Summary statistics, Narrator Brook	127
7.14.3	Fish data	128
7.14.3.1	Summary of mean Trout density (numbers 100m ⁻²), Narrator Brook	128
7.14.4	Epilithic diatom data	129
7.14.4.1	Percentage abundance summary, Narrator Brook	129
7.14.4.2	Summary statistics, Narrator Brook	130
7.14.5	Aquatic macrophyte data, Narrator Brook	131
7.15	Llyn Llagi	132
7.15.1	Spot sampled chemistry data	132
7.15.2	Macroinvertebrate data	133
7.15.2.1	Percentage abundance summary, Llyn Llagi	133
7.15.2.2	Summary statistics, Llyn Llagi	134
7.15.3	Fish data (for outflow stream)	135
7.15.3.1	Summary of mean Trout density (numbers 100m ⁻²), Llyn Llagi	135
7.15.4	Epilithic diatom data	136
7.15.4.1	Percentage abundance summary, Llyn Llagi	136
7.15.4.2	Summary statistics, Llyn Llagi	137
7.15.5	Aquatic macrophyte data, Llyn Llagi	138
7.15.6	Sediment trap data, Llyn Llagi	139
7.15.7	Thermistor data, Llyn Llagi	140
7.16	Llyn Cwm Mynach	141
7.16.1	Spot sampled chemistry data	141
7.16.2	Macroinvertebrate data	142
7.16.2.1	Percentage abundance summary, Llyn Cwm Mynach	142
7.16.2.2	Summary statistics, Llyn Cwm Mynach	143
7.16.3	Fish data (for outflow stream)	144
7.16.3.1	Summary of mean Trout density (numbers 100m ⁻²), Llyn Cwm Mynach	144
7.16.4	Epilithic diatom data	145
7.16.4.1	Percentage abundance summary, Llyn Cwm Mynach	145
7.16.4.2	Summary statistics, Llyn Cwm Mynach	146
7.16.5	Aquatic macrophyte data, Llyn Cwm Mynach	147
7.16.6	Sediment trap data, Llyn Cwm Mynach	148
7.16.7	Thermistor data, Llyn Cwm Mynach	149
7.17	Afon Hafren	150
7.17.1	Spot sampled chemistry data	150

7.17.2	Macroinvertebrate data	151
7.17.2.1	Percentage abundance summary, Afon Hafren	151
7.17.2.2	Summary statistics, Afon Hafren	152
7.17.3	Fish data	153
7.17.3.1	Summary of mean Trout density (numbers 100m ⁻²), Afon Hafren	153
7.17.4	Epilithic diatom data	154
7.17.4.1	Percentage abundance summary, Afon Hafren	154
7.17.4.2	Summary statistics, Afon Hafren	155
7.17.5	Aquatic macrophyte data, Afon Hafren	156
7.18	Afon Gwy	157
7.18.1	Spot sampled chemistry data	157
7.18.2	Macroinvertebrate data	158
7.18.2.1	Percentage abundance summary, Afon Gwy	158
7.18.2.2	Summary statistics, Afon Gwy	159
7.18.3	Fish data	160
7.18.3.1	Summary of mean Salmon density (numbers 100m ⁻²), Afon Gwy	160
7.18.3.2	Summary of mean Trout density (numbers 100m ⁻²), Afon Gwy	160
7.18.4	Epilithic diatom data	161
7.18.4.1	Percentage abundance summary, Afon Gwy	161
7.18.4.2	Summary statistics, Afon Gwy	162
7.18.5	Aquatic macrophyte data, Afon Gwy	163
7.19	Beaghs Burn	164
7.19.1	Spot sampled chemistry data	164
7.19.2	Macroinvertebrate data	165
7.19.2.1	Percentage abundance summary, Beaghs Burn	165
7.19.2.2	Summary statistics, Beaghs Burn	166
7.19.3	Fish data	167
7.19.3.1	Summary of mean Trout density (numbers 100m ⁻²), Beaghs Burn	167
7.19.4	Epilithic diatom data	168
7.19.4.1	Percentage abundance summary, Beaghs Burn	168
7.19.4.2	Summary statistics, Beaghs Burn	169
7.19.5	Aquatic macrophyte data, Beaghs Burn	170
7.20	Bencrom River	171
7.20.1	Spot sampled chemistry data	171
7.20.2	Macroinvertebrate data	172
7.20.2.1	Percentage abundance summary, Bencrom River	172
7.20.2.2	Summary statistics, Bencrom River	173
7.20.3	Fish data	174
7.20.3.1	Summary of mean Trout density (numbers 100m ⁻²), Bencrom River	174
7.20.4	Epilithic diatom data	175
7.20.4.1	Percentage abundance summary, Bencrom River	175
7.20.4.2	Summary statistics, Bencrom River	176
7.20.5	Aquatic macrophyte data, Bencrom River	177

7.21	Blue Lough	178
7.21.1	Spot sampled chemistry data	178
7.21.2	Macroinvertebrate data	179
7.21.2.1	Percentage abundance summary, Blue Lough	179
7.21.2.2	Summary statistics, Blue Lough	180
7.21.3	Fish data (for outflow stream)	181
7.21.3.1	Summary of mean Trout density (numbers 100m ⁻²), Blue Lough	181
7.21.4	Epilithic diatom data	182
7.21.4.1	Percentage abundance summary, Blue Lough	182
7.21.4.2	Summary statistics, Blue Lough	183
7.21.5	Aquatic macrophyte data, Blue Lough	184
7.21.6	Sediment trap data, Blue Lough	185
7.21.7	Thermistor data, Blue Lough	186
7.22	Coneyglen Burn	187
7.22.1	Spot sampled chemistry data	187
7.22.2	Macroinvertebrate data	188
7.22.2.1	Percentage abundance summary, Coneyglen Burn	188
7.22.2.2	Summary statistics, Coneyglen Burn	189
7.22.3	Fish data	190
7.22.3.1	Summary of mean Salmon density (numbers 100m ⁻²), Coneyglen Burn	190
7.22.3.2	Summary of mean Trout density (numbers 100m ⁻²), Coneyglen Burn	190
7.22.4	Epilithic diatom data	191
7.22.4.1	Percentage abundance summary, Coneyglen Burn	191
7.22.4.2	Summary statistics, Coneyglen Burn	192
7.22.5	Aquatic macrophyte data, Coneyglen Burn	193
7.23	Loch Coire Fionnaraich	194
7.23.1	Spot sampled chemistry data	194
7.23.2	Macroinvertebrate data	195
7.23.2.1	Percentage abundance summary, Loch Coire Fionnaraich	195
7.23.2.2	Summary statistics, Loch Coire Fionnaraich	196
7.23.3	Fish data (for outflow stream)	197
7.23.3.1	Summary of mean Trout density (numbers 100m ⁻²), Loch Coire Fionnaraich	197
7.23.4	Epilithic diatom data	198
7.23.4.1	Percentage abundance summary, Loch Coire Fionnaraich	198
7.23.4.2	Summary statistics, Loch Coire Fionnaraich	199
7.23.5	Aquatic macrophyte data, Loch Coire Fionnaraich	200
7.23.6	Sediment trap data, Loch Coire Fionnaraich	201
7.23.7	Thermistor data, Loch Coire Fionnaraich	202
7.24	Sediment Trap Metals Data	203
7.24.1	Sediment Trap Mercury Concentrations (ng g ⁻¹)	203
7.24.2	Sediment Trap Lead Concentrations (µg g ⁻¹)	204
7.25	Sediment Trap Carbonaceous Particle Flux (no. cm⁻² yr⁻¹)	205

2. INTRODUCTION

The UK Acid Waters Monitoring Network (UKAWMN) has been operating continuously since 1988. This report presents summary data for the full suite of measurements at all original sites up until June 2007, and for the reduced numbers of measurements and sites that continued to be funded up until April 2008.

During the first ten years of monitoring biological and chemical data were summarised in an annual series of printed reports. Since the year 2000 annual data reports have also been available from the [UKAWMN](#) web page. These are of a similar format to earlier annual reports but focus on graphical representations of time trends in raw data and diagnostic statistics (e.g. species richness and diversity indices). Detailed analysis of data has been presented in three interpretative reports, Monteith and Shilland (2007), Monteith (2005) and Monteith and Evans (2000) dealing with 18, 15 and 10 years of accumulated results respectively. All three can be found in the reports section of the [UKAWMN](#) web site. A full description of sampling methods and analytical procedures, together with site descriptions, is also presented on the UKAWMN web page.

3. THE MONITORING NETWORK

The UKAWMN, funded by the UK Department of the Environment, originally consisted of 10 stream sites and 10 lakes, situated in those parts of the country most susceptible to acidification (see map, page 14). In 1990, two additional sites, Blue Lough and Coneyglen Burn, were added to the Network with funding from the Department of Environment (Northern Ireland). In January 1991 site 18, the Nant y Gronwen, was withdrawn from the Network at the request of the landowner and was replaced by a nearby moorland stream, the Afon Gwy. Due to water abstraction and damming by a local fish farm at site 1, Coire nan Arr, a nearby replacement control site was chosen, site 23, Loch Coire Fionnaraich. From 2001 to 2007 the entire network was funded by the UK Department of the Environment Food and Rural Affairs ([DEFRA](#)). In June 2007 funding cuts dictated that site 14, Narrator Brook, was removed from the network and that fish surveys at all sites and aquatic macrophyte surveys at lake sites were cancelled for 2007.

Though beyond the reporting dates for this particular document, further cuts in funding were announced in July 2008. As a result DEFRA also ceased to resource part or all monitoring activity at more than half of the UKAWMN sites: site 3, Coire na Con, site 5, Loch Chon, site 6, Loch Tinker, site 8, Loch Grannoch, site 9, Dargall Lane, site 11, Burnmoor Tarn, site 16, Llyn Cwm Mynach, site 17, Afon Hafren, site 18, Afon Gwy, Site 19, Beagh's Burn, Site 20, Bencrom River and site 22, Coneyglen Burn. Funding for trace metals analysis and carbonaceous particle analysis ceased for the full 22 sites.

All sites have been monitored chemically and biologically according to methodologies described on the UKAWMN web site. Water samples are collected monthly at stream

sites and quarterly at lake sites. Epilithic diatoms and benthic invertebrates are sampled annually. Aquatic macrophytes are surveyed between June and September, annually at stream sites and biannually at lake sites. Stream sites and the outflow streams of lake sites are electro-fished annually in the autumn.

In addition to the annual surveys, sediment cores were taken from all lake sites during the first five years of monitoring. These were radiometrically dated and analysed for diatoms, carbonaceous particles (derived from the combustion of fossil fuels) (Rose *et al.* 1995) and trace metals. Results of this work are presented in Patrick *et al.* (1995) and Juggins *et al.* (1996). Sediment traps installed in all lakes are emptied annually. The contents are analysed for diatom species composition, trace metals and the flux of carbonaceous particles, allowing direct comparisons to be made with the historical (sediment core) record. Temperature data from thermistors attached to the sediment traps is downloaded at the same time.

Water chemistry and macroinvertebrate sampling was prevented at several sites in the spring of 2001 by foot-and-mouth related access restrictions. Sampling was resumed across the Network in June 2001.

All chemical, physical and biological data are stored in a database managed by the Centre for Ecology and Hydrology and ENSIS. Summary data are available to scientific and other interested organisations on request. Further information on the UKAWMN, including site descriptions and photographs, is available via the Internet at the address: <http://www.ukawmn.ucl.ac.uk>

4. DATA FORMAT

The chemical and biological data are presented in a series of sections, summarised below, on a site-by-site basis.

Section 1:	<p>Time series graphs of key spot sampled chemical determinands for individual samples.</p> <p>Summary table for key chemical determinands including: the mean over the 1988-1993 baseline period; the mean for the current year (2007-2008) and the standard deviation for the current year. The normal number of observations per year is 4 for lakes and 12 for streams.</p>
Section 2:	<p>Macroinvertebrates. Time series of macroinvertebrate taxon % abundance in annual aggregated samples (5 kick samples from lake littoral habitats or from riffle areas in streams), and annual total number of individual animals. Some species occurring at less than 1% relative abundance are omitted.</p> <p>Macroinvertebrate summary statistic time series:</p> <ol style="list-style-type: none"> 1) total number of individuals; 2) number of individuals identified at Genus level only (excludes some ubiquitous groups such as the chironomids and oligochaetes); 3) total number of taxa; 4) Diversity Indices: <ol style="list-style-type: none"> a) Hill's N_1, the exponent of Shannon's Index and a measure of the number of abundant species in a sample (Hill, 1973). b) Hill's N_2, the reciprocal of Simpson's Index and a measure of the number of very abundant species in a sample (Hill, 1973). c) E_5, a measure of evenness based on the ratio $(N_2-1):(N_1-1)$. As a single species becomes more and more dominant, E_5 tends to zero.
Section 3:	<p>Salmonids. Summary histogram of mean density of trout and salmon, if present, in three 50m reaches (number of individuals caught per 100m² survey area) for each year of the monitoring period. (0+ = new recruits, >0+ = all fish over one year of age).</p>
Section 4:	<p>Epilithic diatoms. Time series of annual mean percentage frequency (from 3-4 replicate samples) of taxa occurring at greater than 2 % abundance in any one sample.</p> <p>Epilithic diatom summary statistic time series. Mean, maximum and minimum for:</p> <ol style="list-style-type: none"> a) Hill's N_1 (see above) b) Hill's N_2 (see above) c) E_5 (see above) d) Diatom inferred pH (Di pH), based on the weighted average of species pH optima in the surface sediments of the 167 lake Surface Water Acidification Project dataset (Stevenson <i>et al.</i> 1991). <p>pH reconstructions are intended only for application to sedimentary diatoms but directional trends in inferred pH of epilithic assemblages should provide an indication of the direction of a response to changing acidity.</p>

Section 5:	<p>Aquatic macrophytes. For lakes relative species abundance determined on a five point scale (comparable to the DAFOR scoring system, Palmer <i>et al.</i> 1992) following shoreline survey, shore transects and deep water grapnel trawls, as follows:</p> <ol style="list-style-type: none"> 1. rare/infrequent 2. occasional but not abundant 3. widespread but not abundant 4. locally abundant 5. widespread and abundant <p>For streams, total macrophyte cover estimated for 5m sections of a 50m survey stretch and each then partitioned into proportional species abundance to provide percentage cover for each species. Data analysed for this report are the mean species cover estimates for the 50m stretches.</p>
Section 6:	<p>For lake sites only. Histogram of diatom species composition from annually retrieved sediment traps. Species occurring at less than 1% abundance in all years are omitted.</p>
Section 7:	<p>For lake sites only. Time series graphs of annual data from thermistors attached to the sediment traps. Thermistor pairs are used, one 1.5m from the lake bottom and the other 1m from the water surface.</p>
Section 8:	<p>Lochnagar only. Time series graphs of annual data from the weather station situated next to the loch. Wind speed, air pressure, air temperature, soil temperature, energy, relative humidity and rainfall are presented.</p>

After the site by site data a final section presents sediment trap Mercury, Lead and Spheroidal Carbonaceous Particle concentrations for all the lake sites.

5. REFERENCES

Hill, M. O. 1973 Diversity and evenness: a unifying notation and its consequences. *Ecology*, **54**, 427-31.

Juggins, S., Flower, R. J. & Battarbee, R. W. (1996) Palaeolimnological evidence for recent chemical and biological changes in UK Acid Waters Monitoring Network sites. *Freshwater Biology* **36**, **1**, 203-219.

Monteith, D. T. (Ed.) 2005 *UK Acid Waters Monitoring Network: 15 Year Report. Analysis and Interpretation of Results, April 1988-March 2003*. ENSIS Ltd, London.

Monteith, D. T. & Evans, C. D. (Eds.) 2000 *UK Acid Waters Monitoring Network: 10 Year Report. Analysis and Interpretation of Results, April 1988-March 1998*. ENSIS Ltd, London.

Monteith, D. T. & Shilland, E. M. (Eds.) 2007 *The United Kingdom Acid Waters Monitoring Network Assessment of the First 18 Years of Data. Data Summary Annex Accompanying Research Project Final Report. Report to the Department for Environment, Food and Rural Affairs (Contract EPG 1/3/160)*. ENSIS Ltd, London.

Palmer, M. A., Bell, S. L. & Butterfield, I. 1992 A botanical classification of standing waters in Britain: applications for conservation and monitoring. *Aquatic conservation: marine and freshwater ecosystems*, **2**, 125-143.

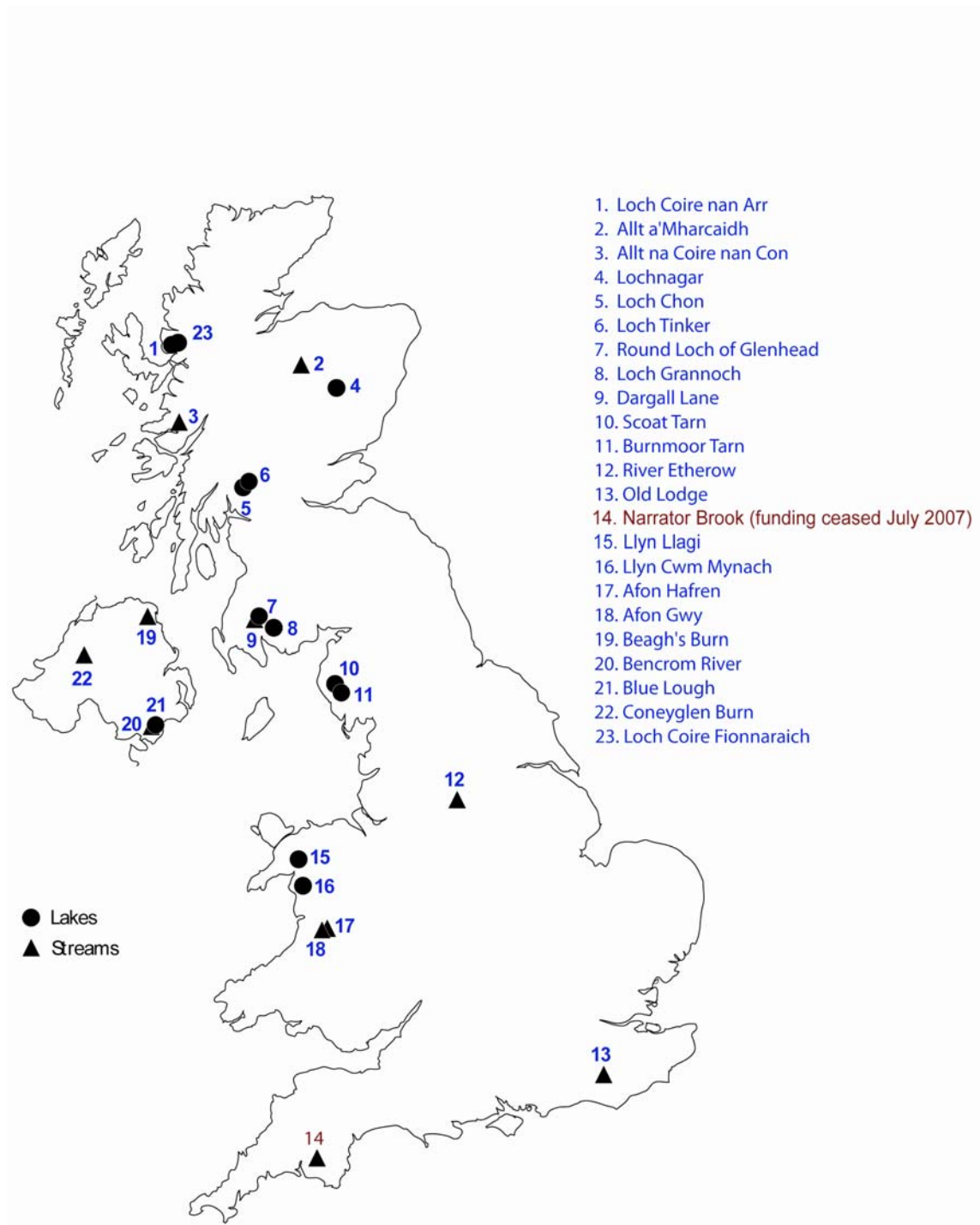
Patrick, S. T., Waters, D., Juggins, S. & Jenkins, A. (Eds.) 1991 *The United Kingdom Acid Waters Monitoring Network. Site descriptions and methodology report*. ENSIS Ltd, London.

Patrick, S. T., Monteith, D. T. & Jenkins, A. 1995 *UK Acid Waters Monitoring Network: The First Five Years. Analysis and interpretation of results, April 1988 - March 1993*. ENSIS Ltd, London.

Rose, N. L., Harlock, S., Appleby, P. G. & Battarbee, R. W. 1995 Dating of recent lake sediments in the United Kingdom and Ireland using spheroidal carbonaceous particle (SCP) concentration profiles. *The Holocene*, **5**, **3**, 328-335.

Stevenson, A. C., Juggins, S., Birks, H. J. B., Anderson, N. J., Battarbee, R. W., Berge, F., Davis, R. B., Flower, R. J., Haworth, E. Y., Jones, V. J., Kingston, J. C., Kreiser, A. M., Line, J. M., Munro, M. A. R. & Renberg, I. 1991 *The surface waters acidification project palaeolimnology programme: Modern diatom/lake-water chemistry data-set*. ENSIS Ltd, London.

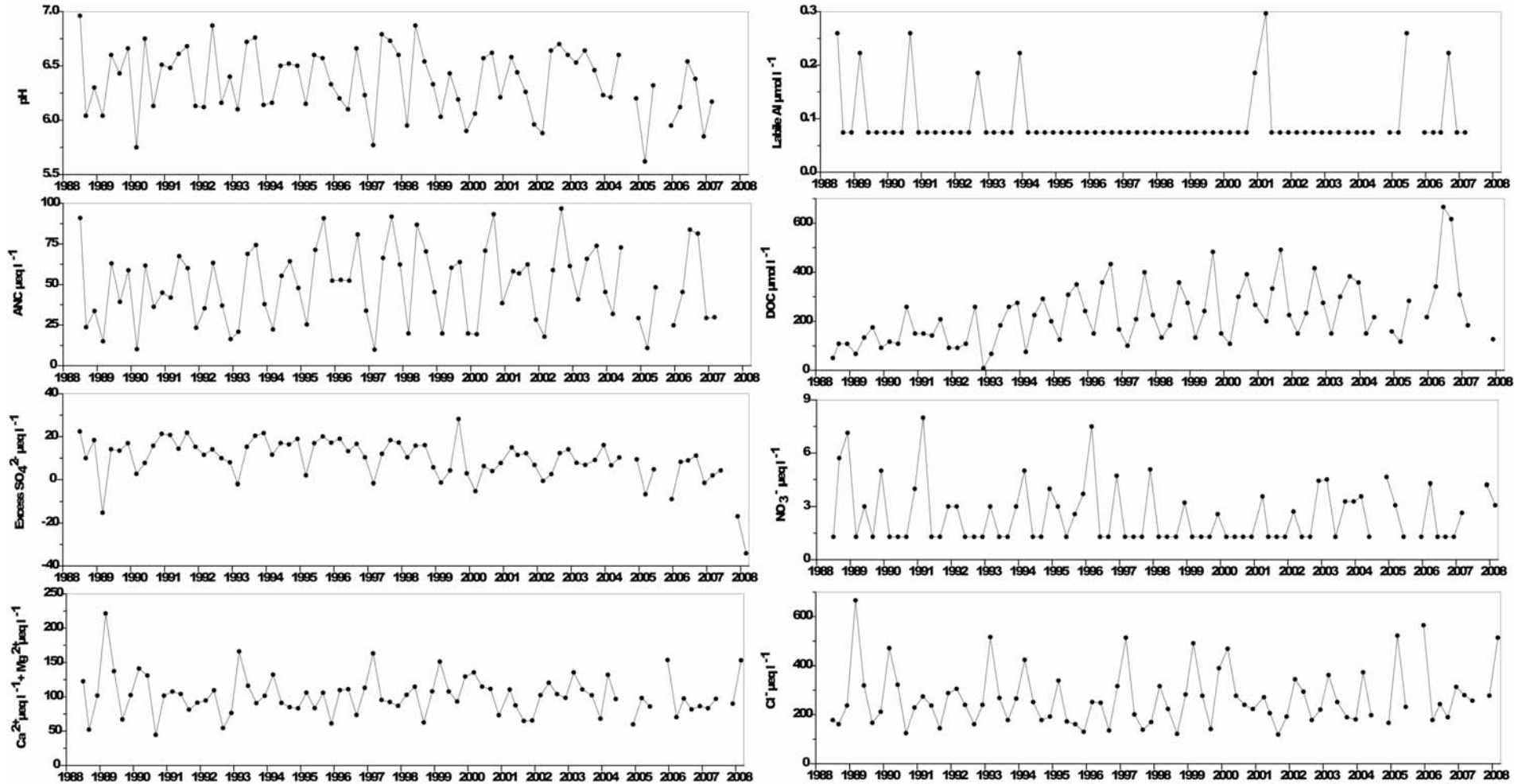
6. LOCATION OF UKAWMN SITES



7. SITE DATA

7.1 Loch Coire nan Arr

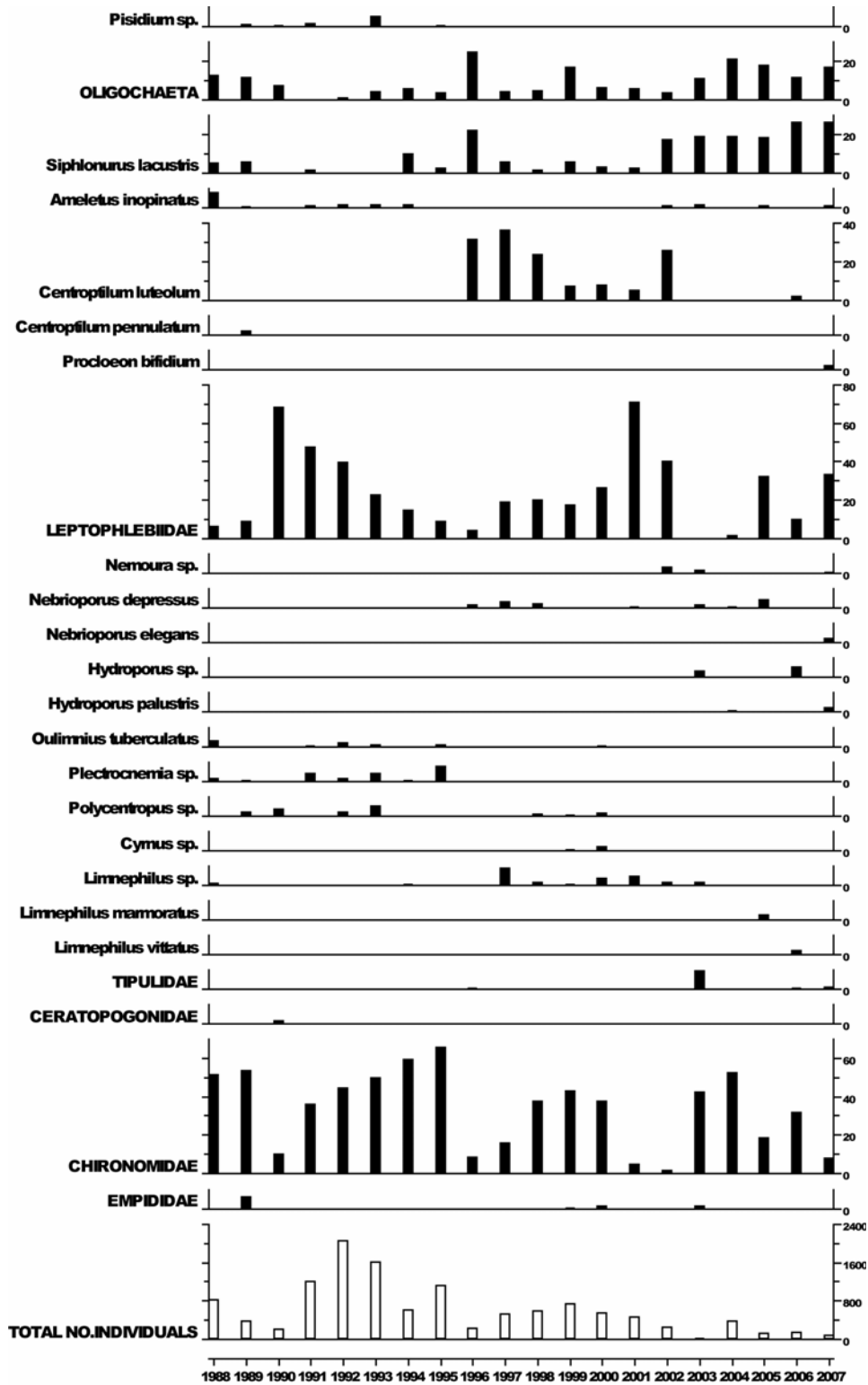
7.1.1 Spot sampled chemistry data



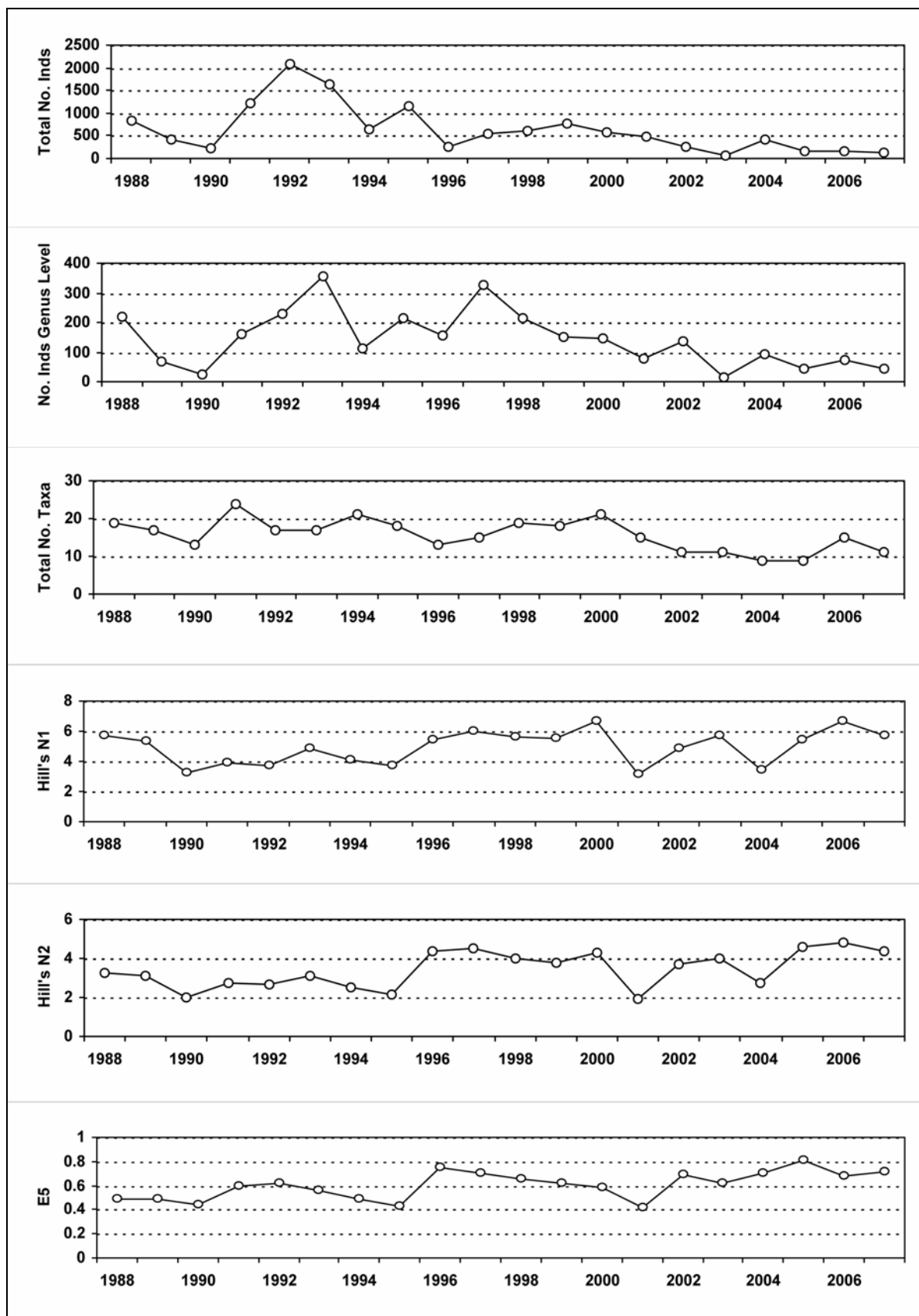
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca^{2+}	Mg^{2+}	Na^+	K^+	Si	*Soluble Al	*labile Al	Cl^-	SO_4^{2-}	Excess SO_4^{2-}	NO_3^-	DOC
mean 1st 5 yrs	6.39	42.66	42.53	63.67	239.60	9.51	33.21	0.46	0.11	273.90	41.15	12.38	2.80	124.60
07-08 mean			39.25	74.00	278.11	8.74	61.64			349.05	20.54	-16.04	3.64	126.55
07-08 std.dev			7.64	27.84	94.45	4.51	64.32			142.71	9.91	19.73	0.81	

7.1.2 Macroinvertebrate data

7.1.2.1 Percentage abundance summary, Loch Coire nan Arr

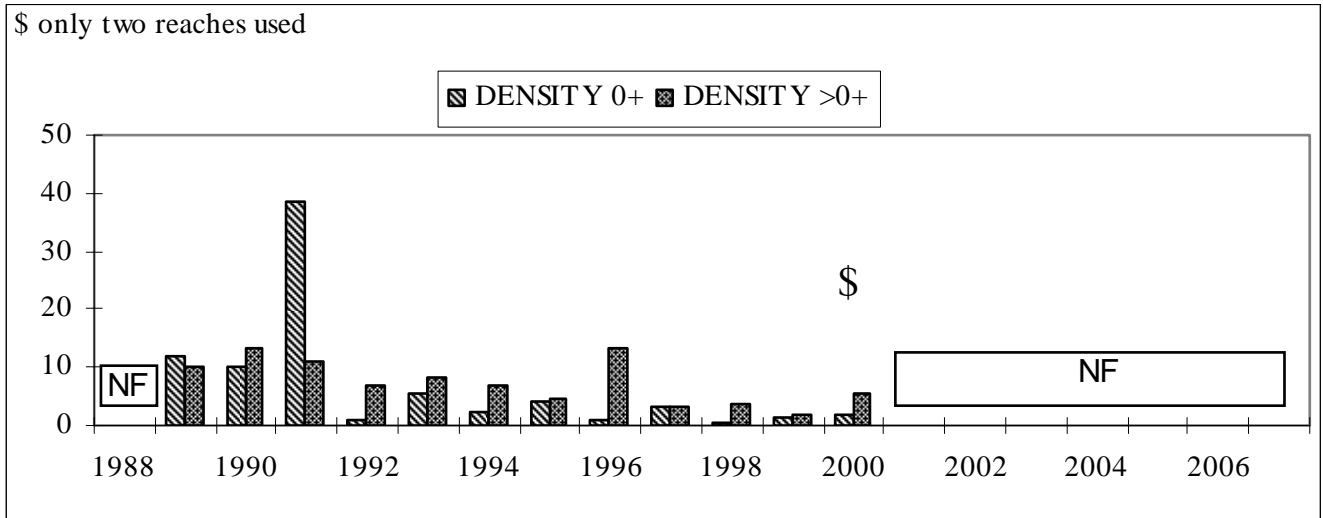


7.1.2.2 Summary statistics, Loch Coire nan Arr



7.1.3 Fish data (for outflow stream)

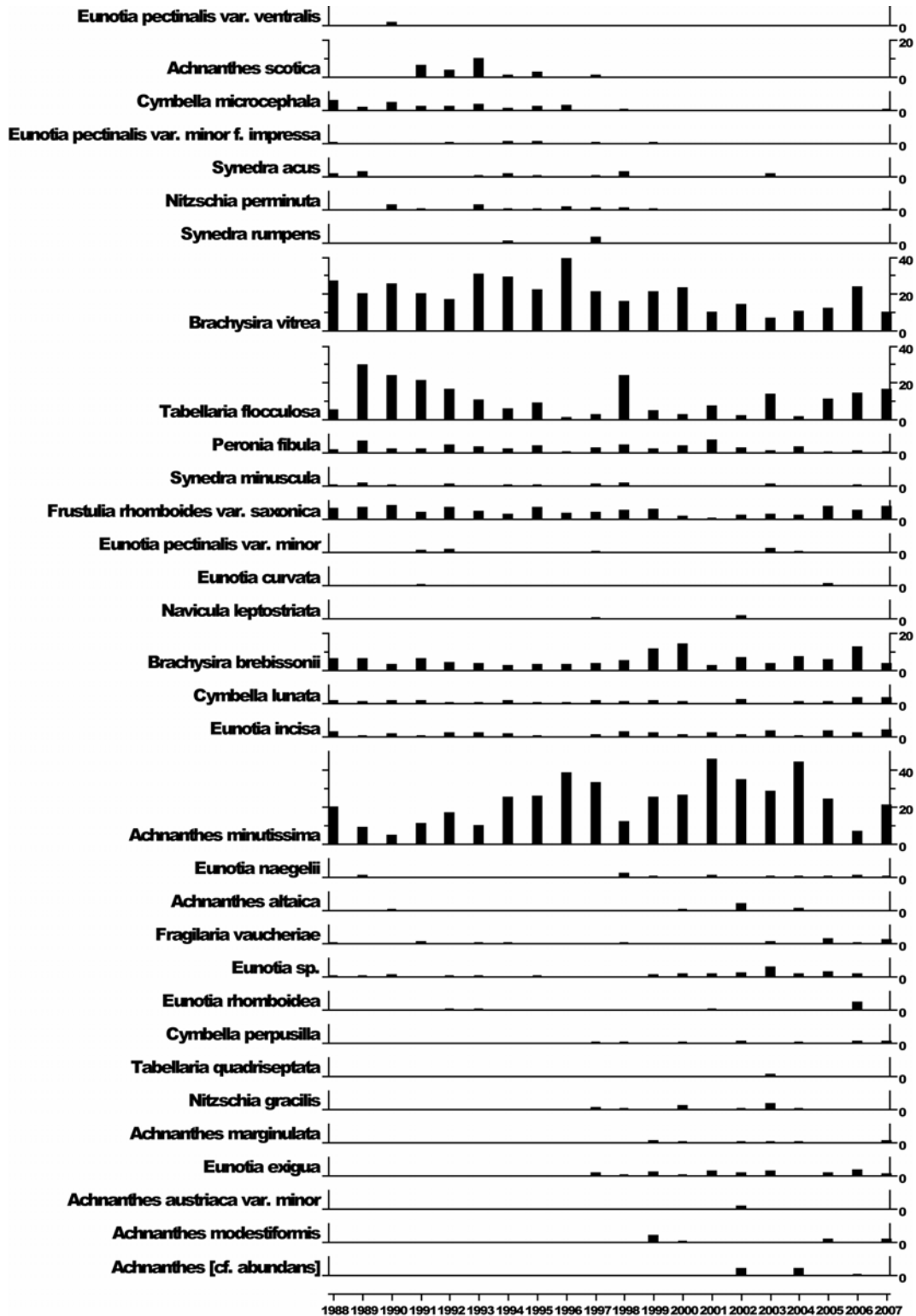
7.1.3.1 Summary of mean Trout density (numbers 100m⁻²), Loch Coire nan Arr



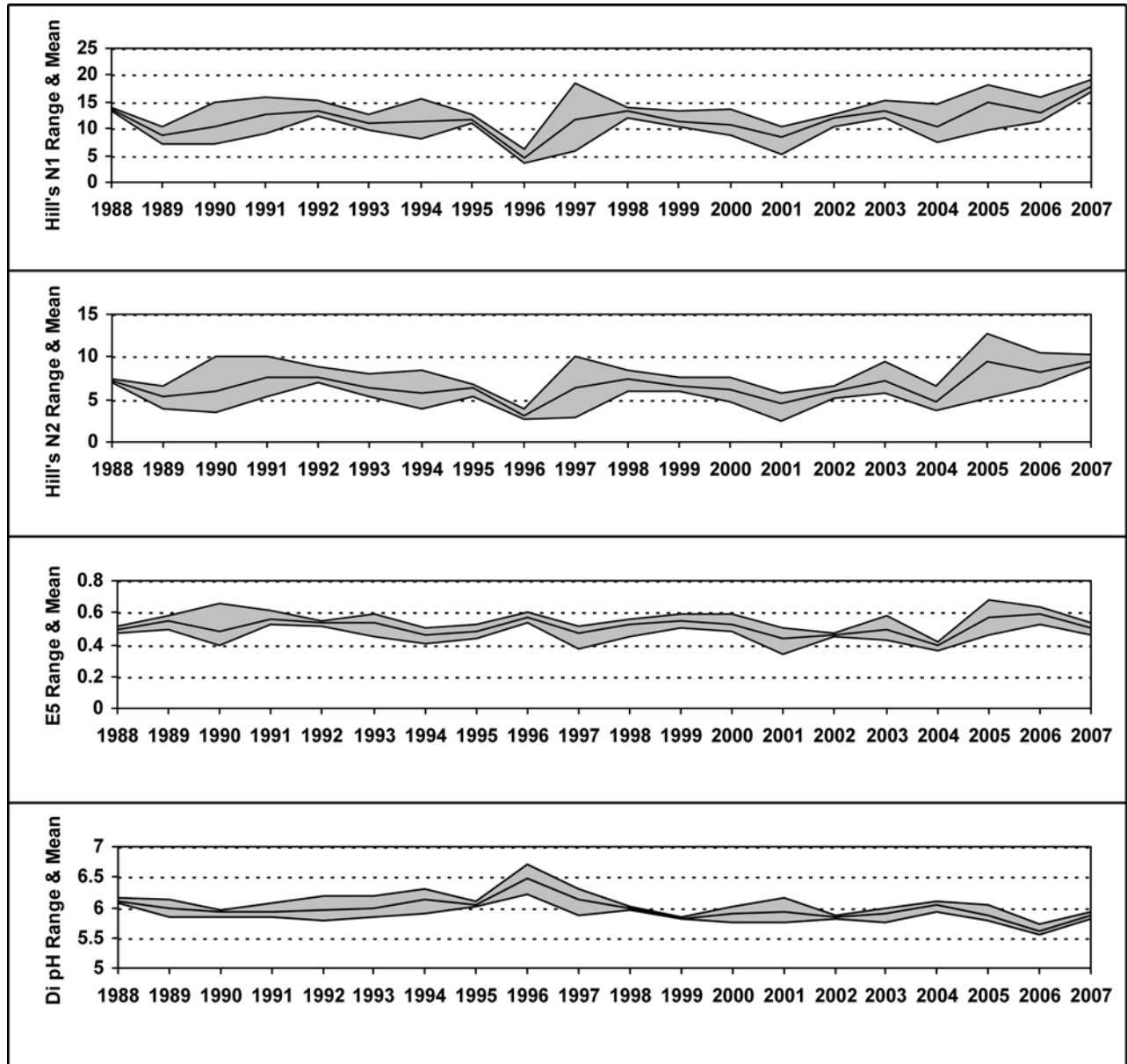
NF = Not fished

7.1.4 Epilithic diatom data

7.1.4.1 Percentage abundance summary, Loch Coire nan Arr

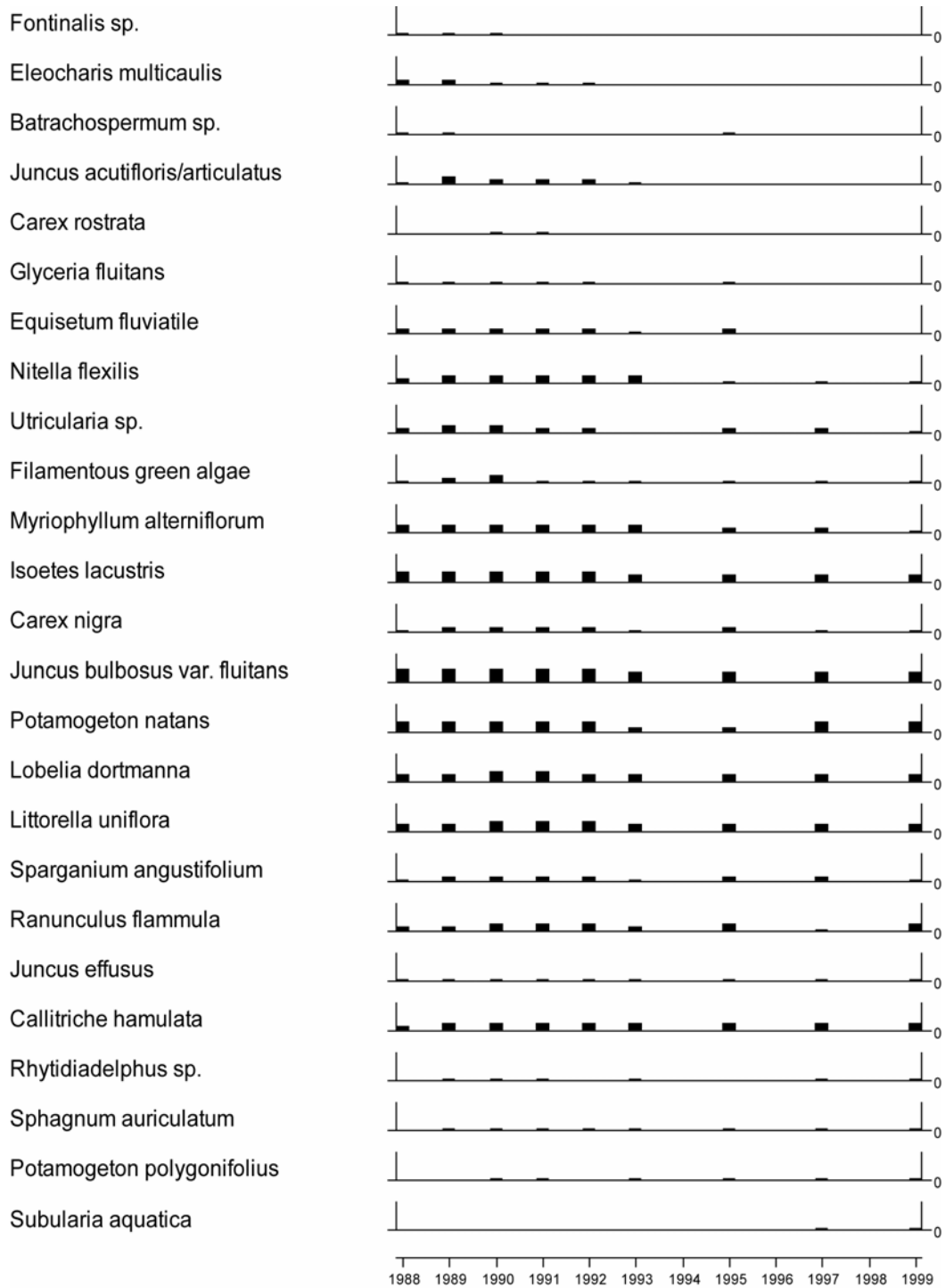


7.1.4.2 Summary statistics, Loch Coire nan Arr



7.1.5 Aquatic macrophyte data, Loch Coire nan Arr

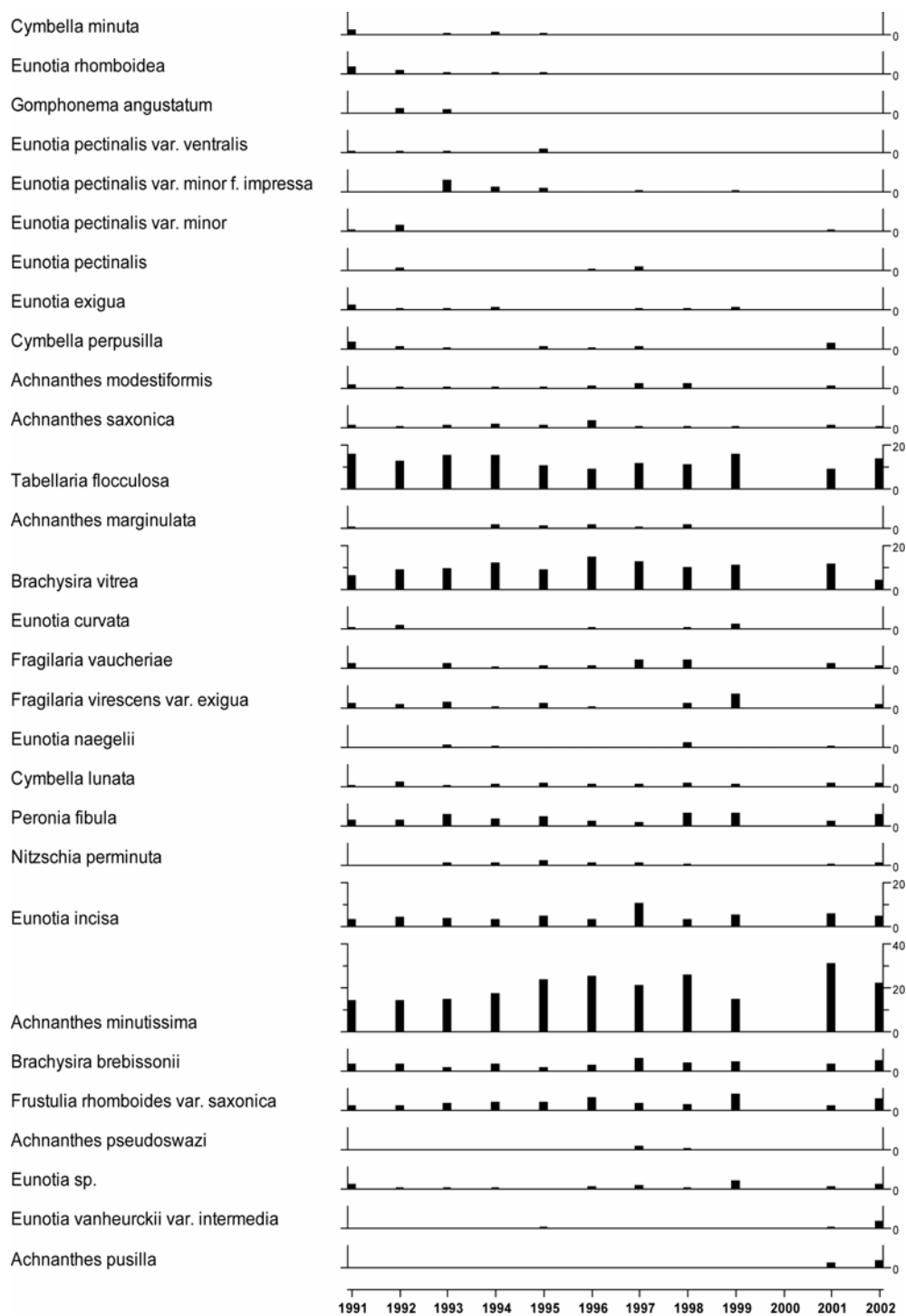
Species Scores (1-5)



Aquatic macrophytes no longer surveyed after 1999.

7.1.6 Sediment trap data, Loch Coire nan Arr

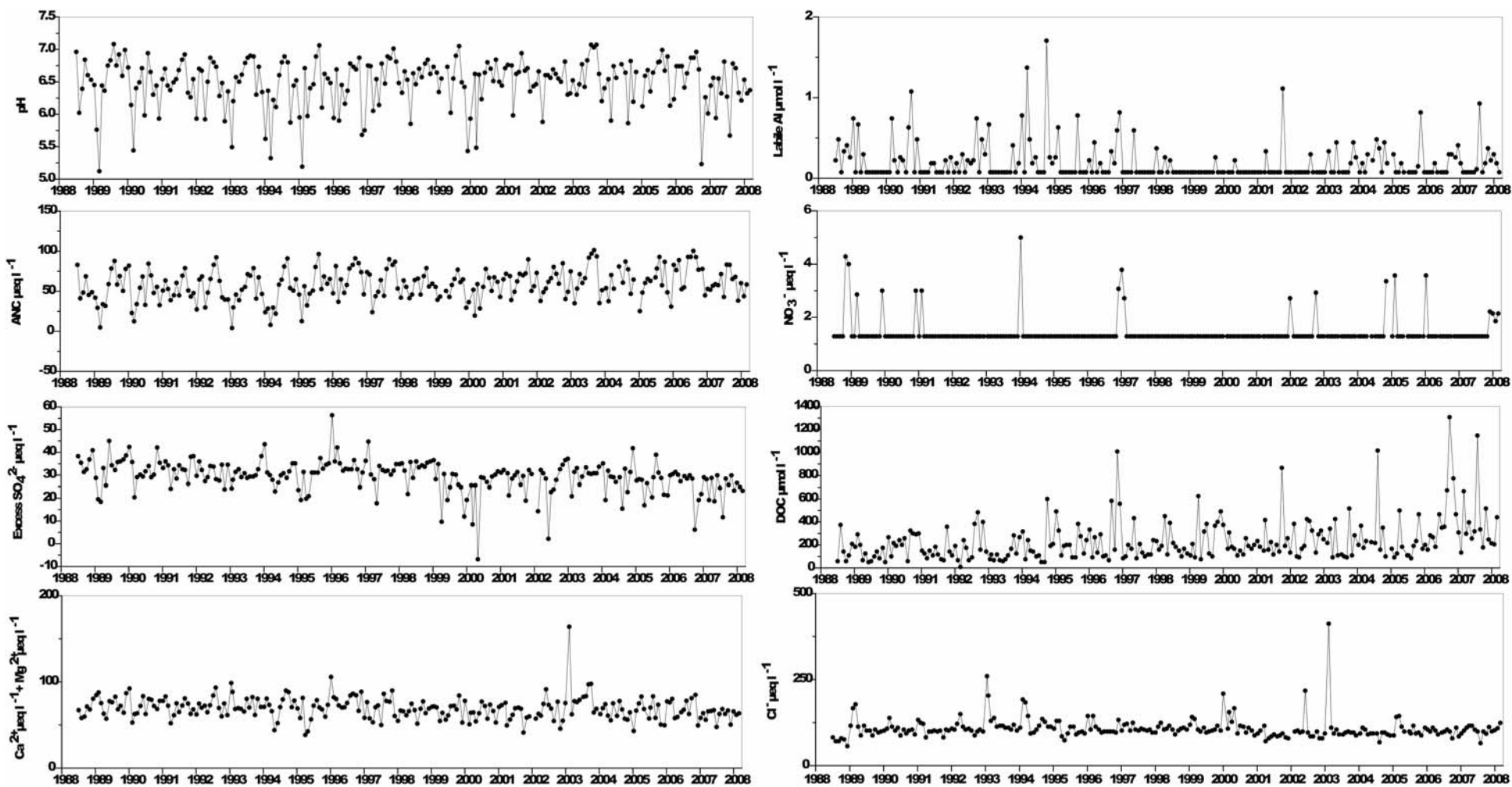
Relative percentage frequency of diatom taxa.



Sediment trap samples no longer collected after 2002.

7.2 Allt a'Mharcaidh

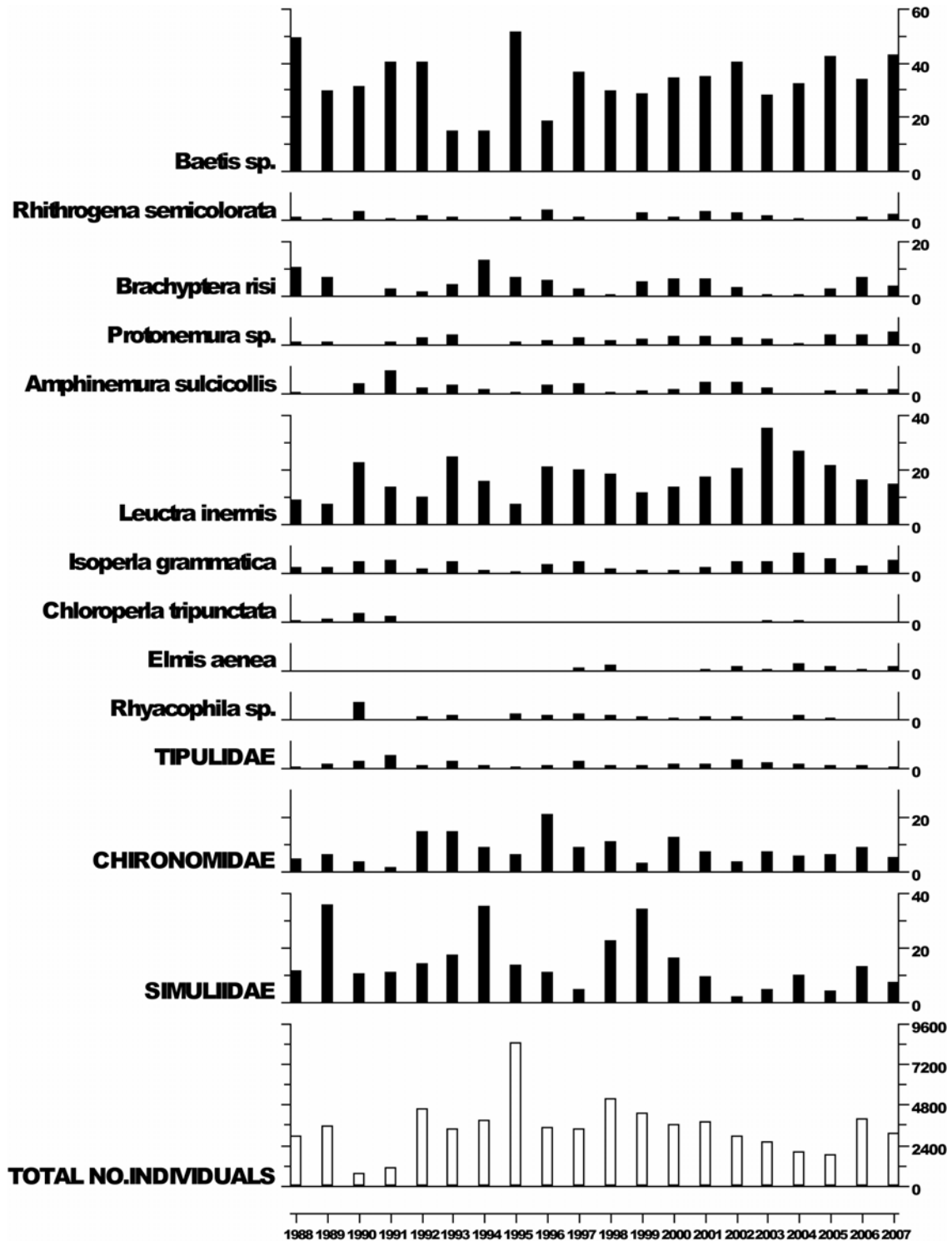
7.2.1 Spot sampled chemistry data



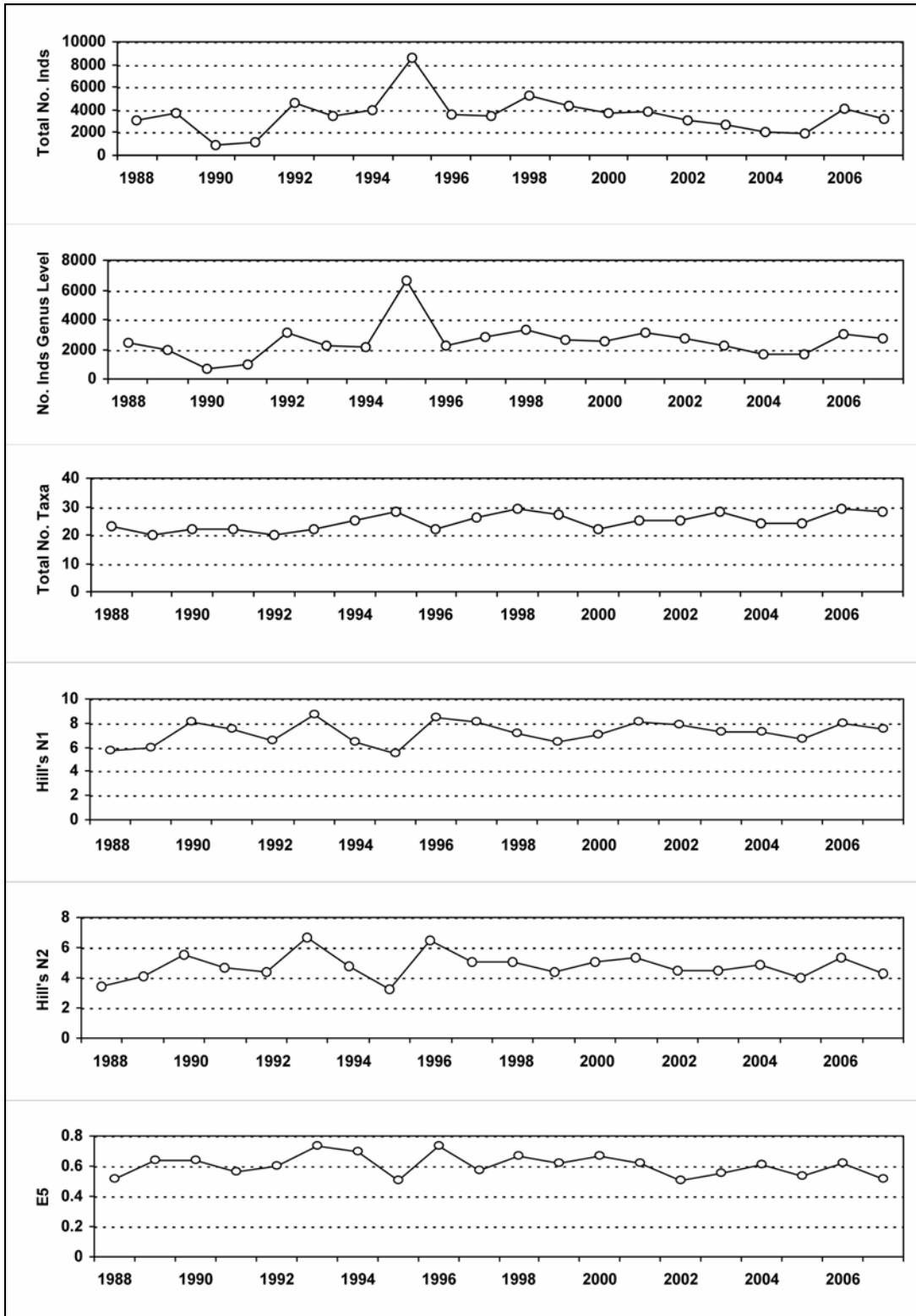
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl ⁻	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	6.45	51.57	42.41	30.39	132.60	6.75	170.80	1.31	0.23	108.40	44.41	33.02	1.50	167.70
07-08 mean	6.41	60.79	35.91	26.40	123.18	4.98	245.19	1.37	0.21	103.06	36.06	25.26	1.25	379.10
07-08 std.dev	0.31	14.51	4.65	2.15	11.95	1.60	83.53	1.12	0.25	15.01	6.37	5.37	0.66	262.17

7.2.2 Macroinvertebrate data

7.2.2.1 Percentage abundance summary, Allt a'Mharcaidh

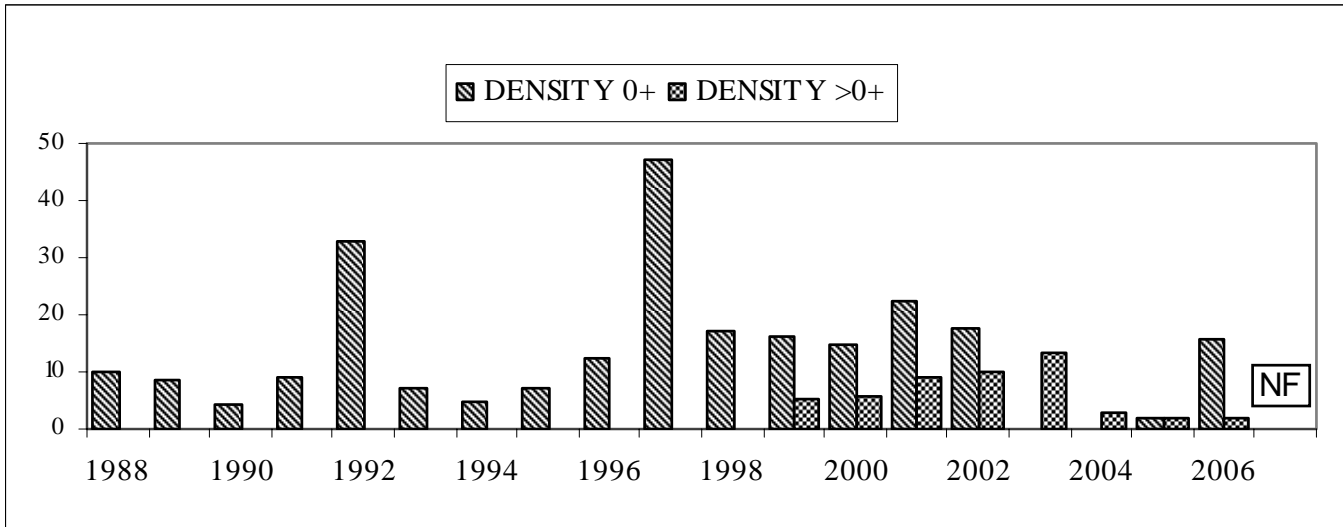


7.2.2.2 Summary statistics, Allt a'Mharcaidh



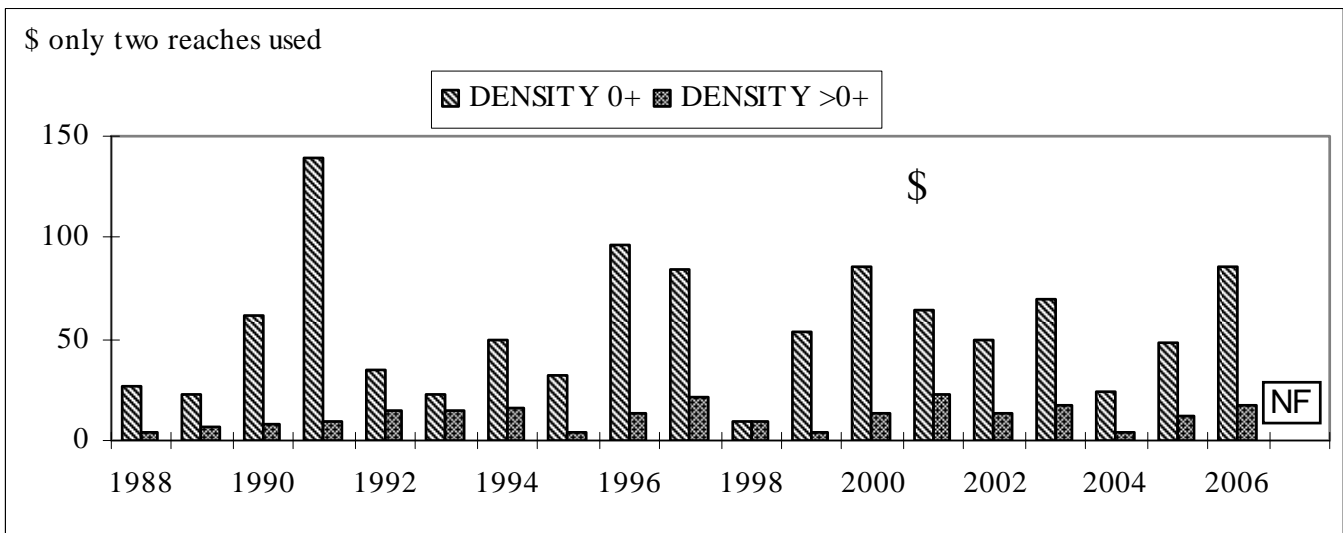
7.2.3 Fish data

7.2.3.1 Summary of mean Salmon density (total numbers 100m⁻²), Allt a'Mharcaidh



Salmon age groups not split prior to 1999.
 No fishing in 2007 due to funding cuts.

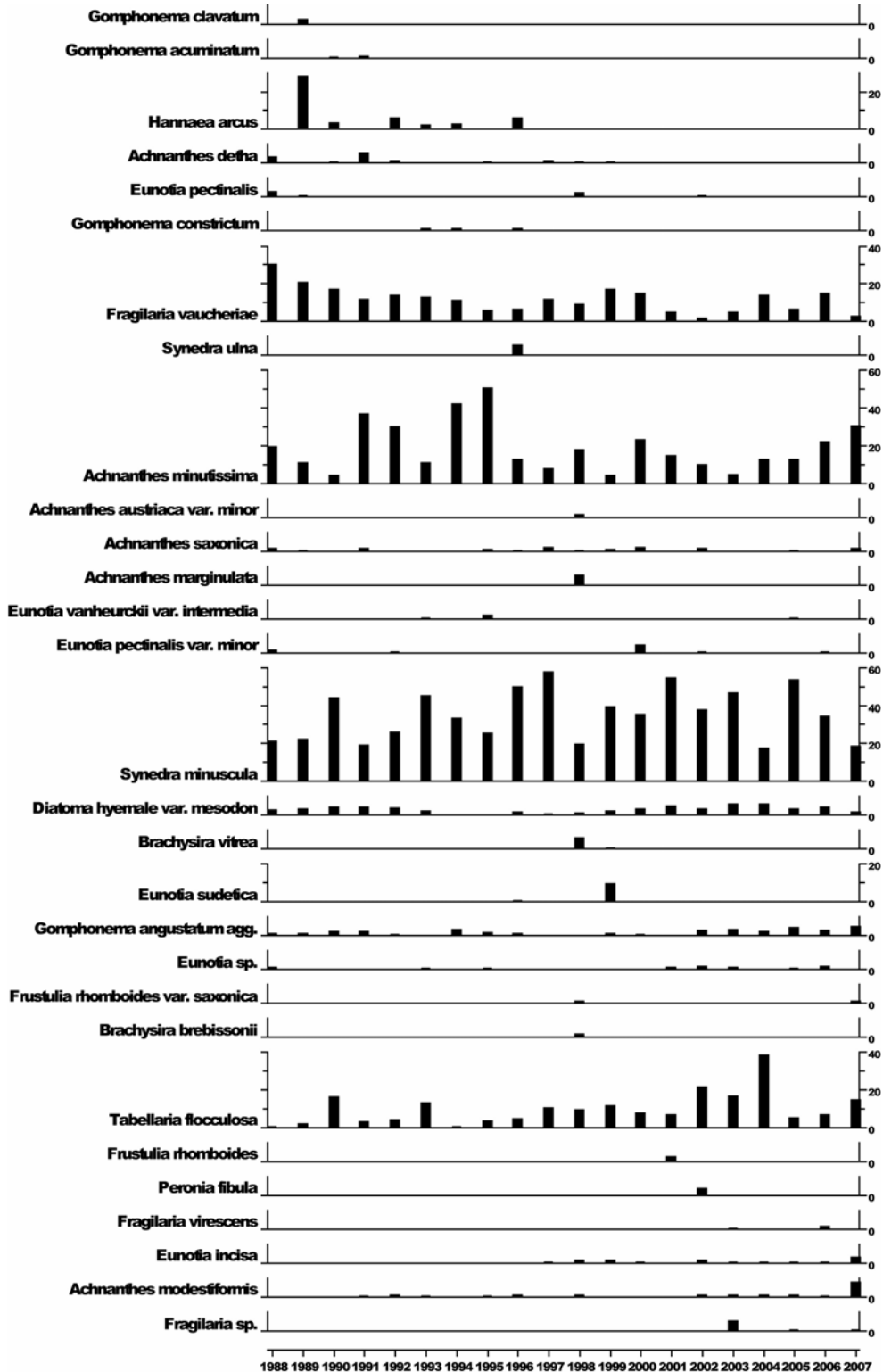
7.2.3.2 Summary of mean Trout density (numbers 100m⁻²), Allt a'Mharcaidh



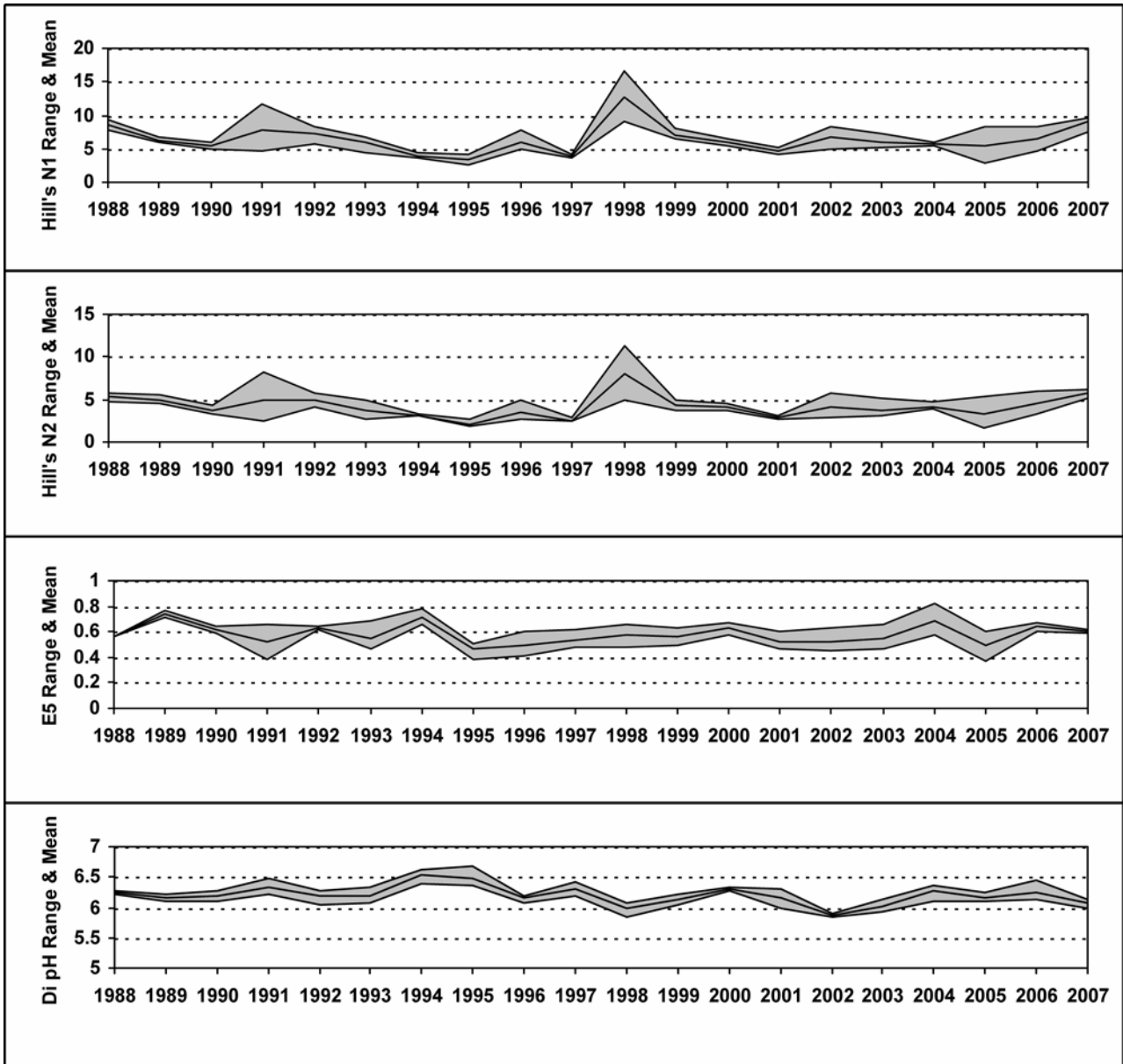
No fishing in 2007 due to funding cuts.

7.2.4 Epilithic diatom data

7.2.4.1 Percentage abundance summary, Allt a'Mharcaidh

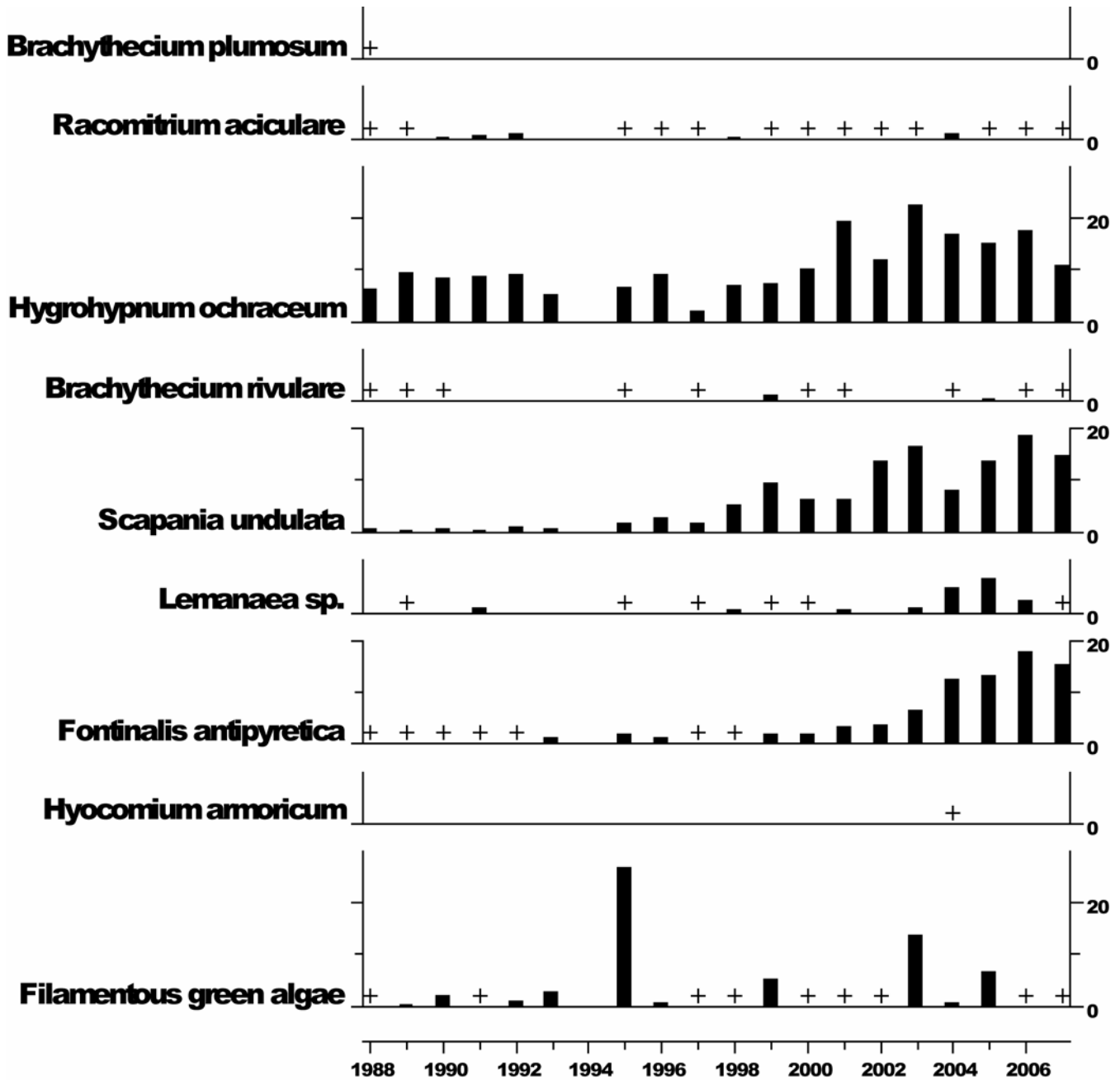


7.2.4.2 Summary statistics, Allt a'Mharcaidh



7.2.5 Aquatic macrophyte data, Allt a'Mharcaidh

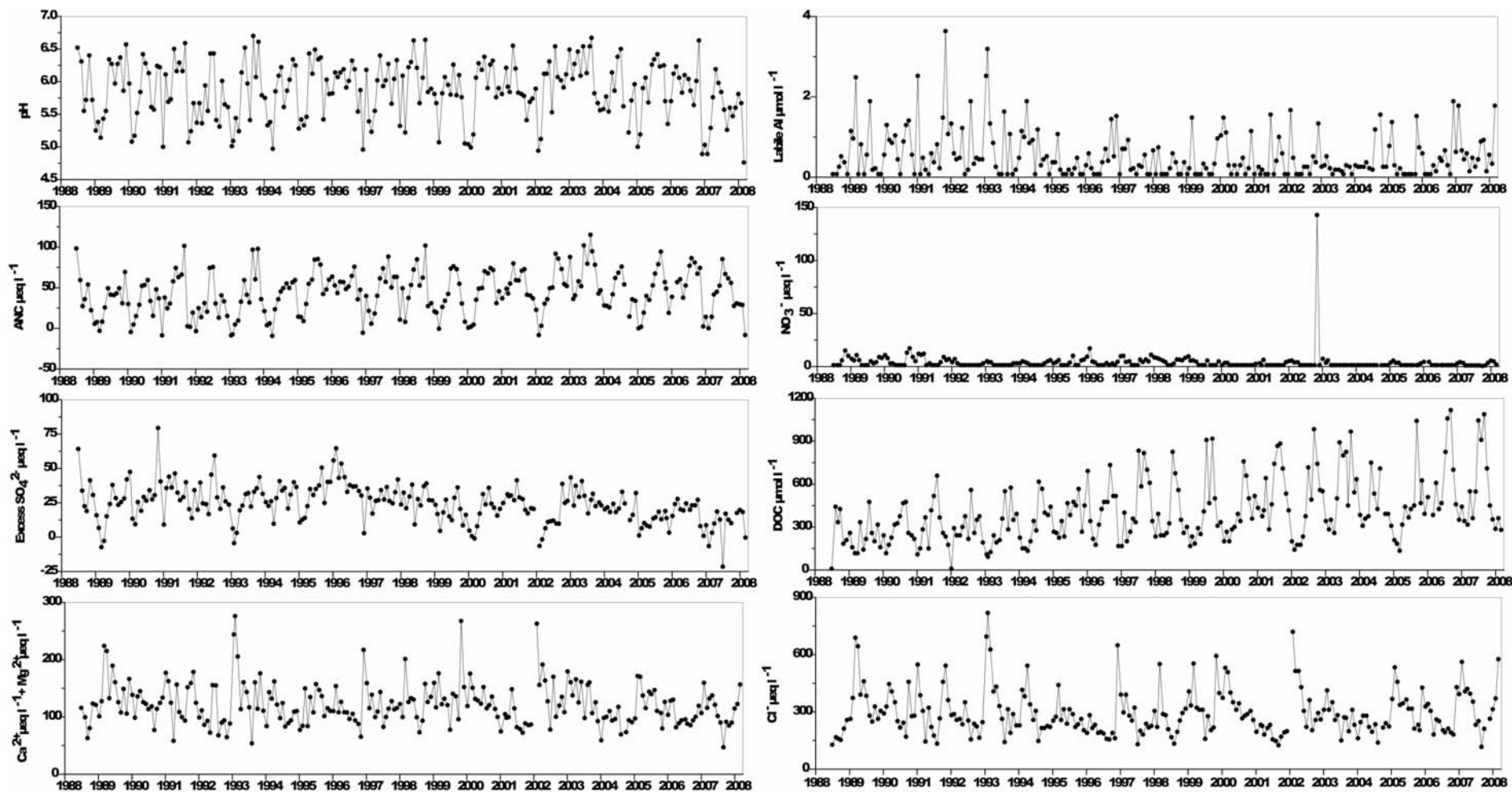
Percentage Species Cover



+ Represents <0.5% abundance

7.3 Allt na Coire nan Con

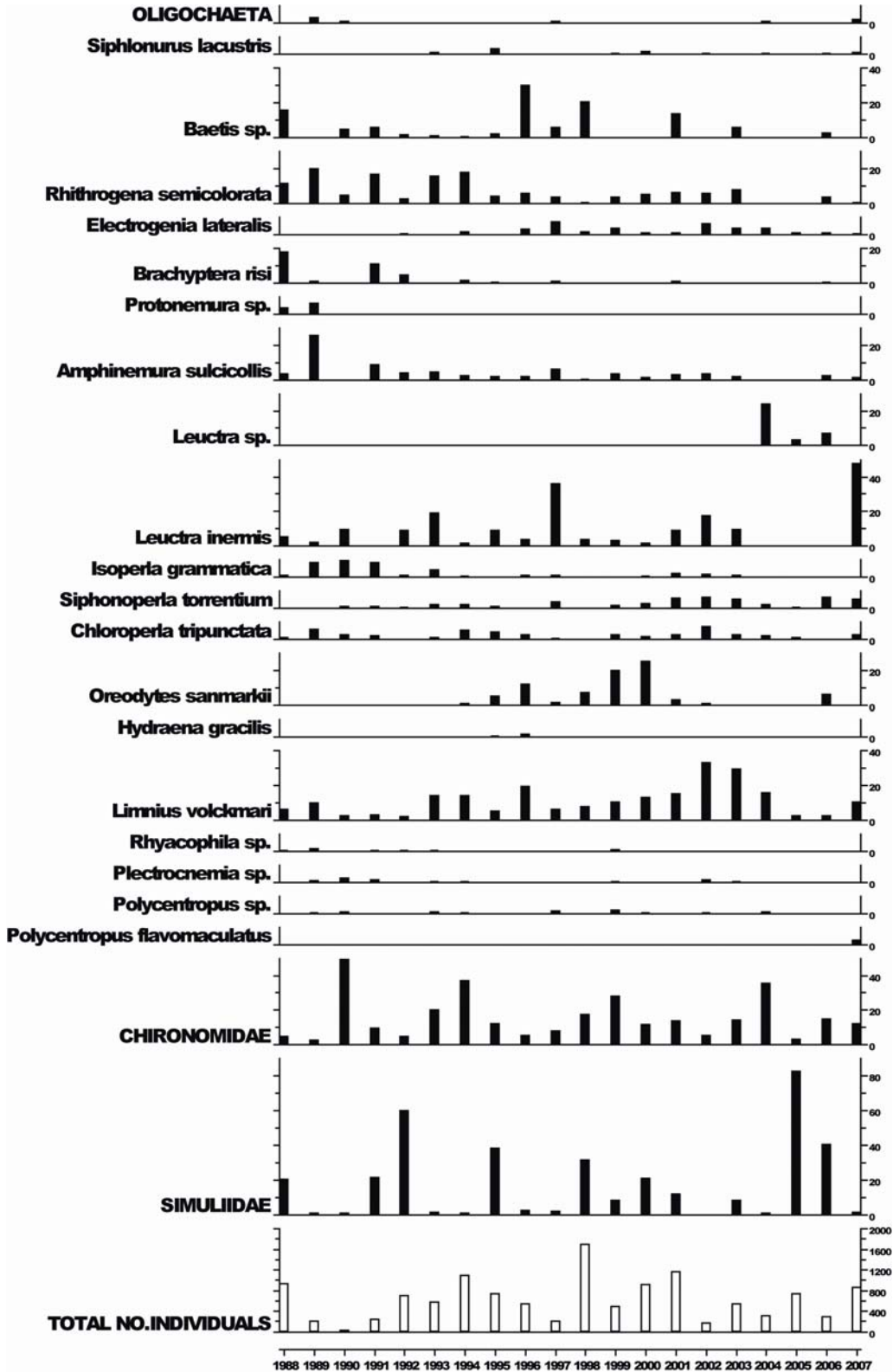
7.3.1 Spot sampled chemistry data



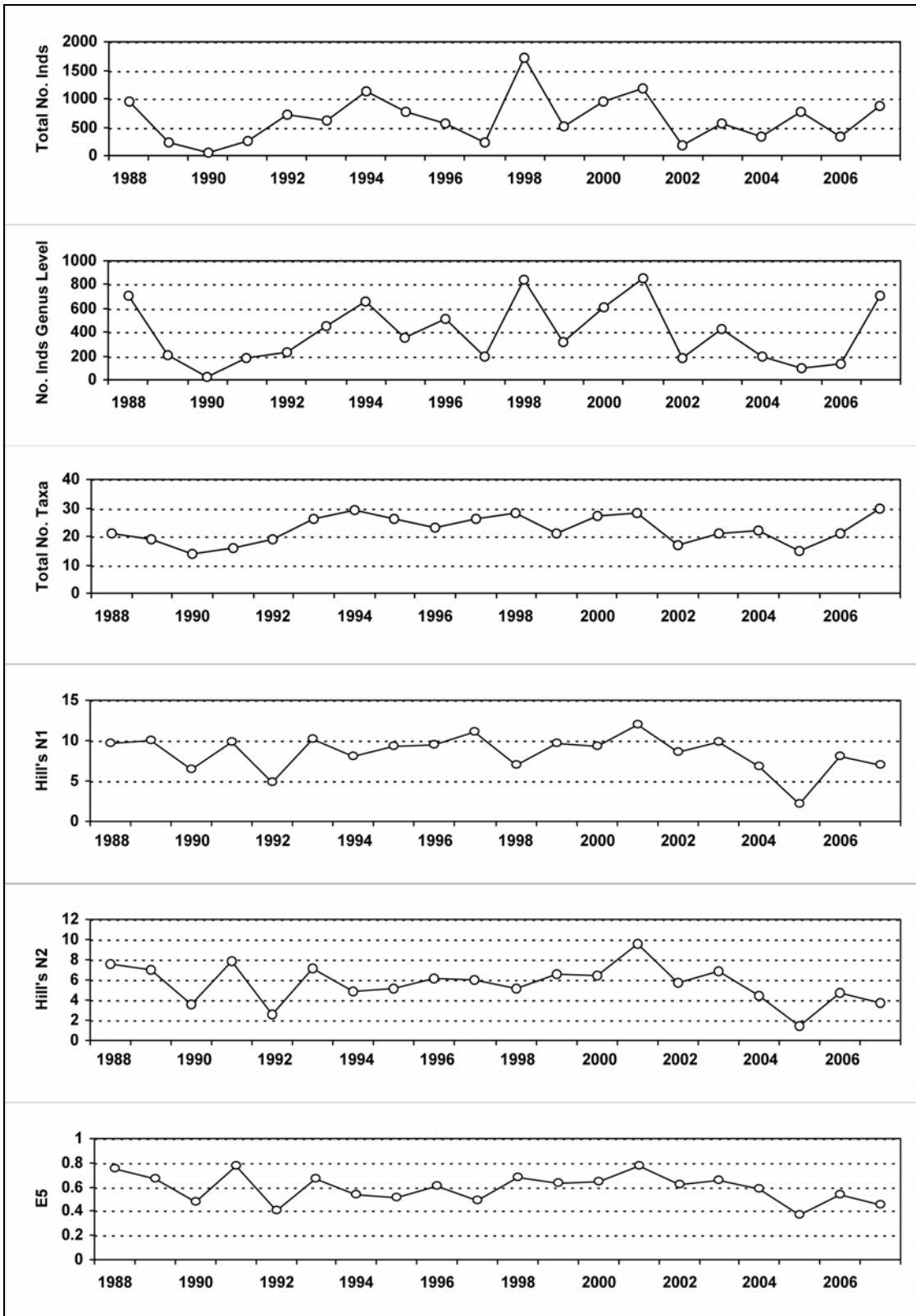
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	5.81	32.53	58.97	70.89	272.00	9.14	65.54	2.40	0.80	321.50	61.95	28.19	4.91	266.70
07-08 mean	5.63	43.04	45.71	61.65	262.39	10.09	141.63	2.77	0.58	318.00	43.96	10.63	1.91	577.73
07-08 std.dev	0.36	24.02	10.98	20.18	78.83	2.25	64.51	1.09	0.45	124.10	17.82	12.39	1.70	292.09

7.3.2 Macroinvertebrate data

7.3.2.1 Percentage abundance summary, Allt na Coire nan Con

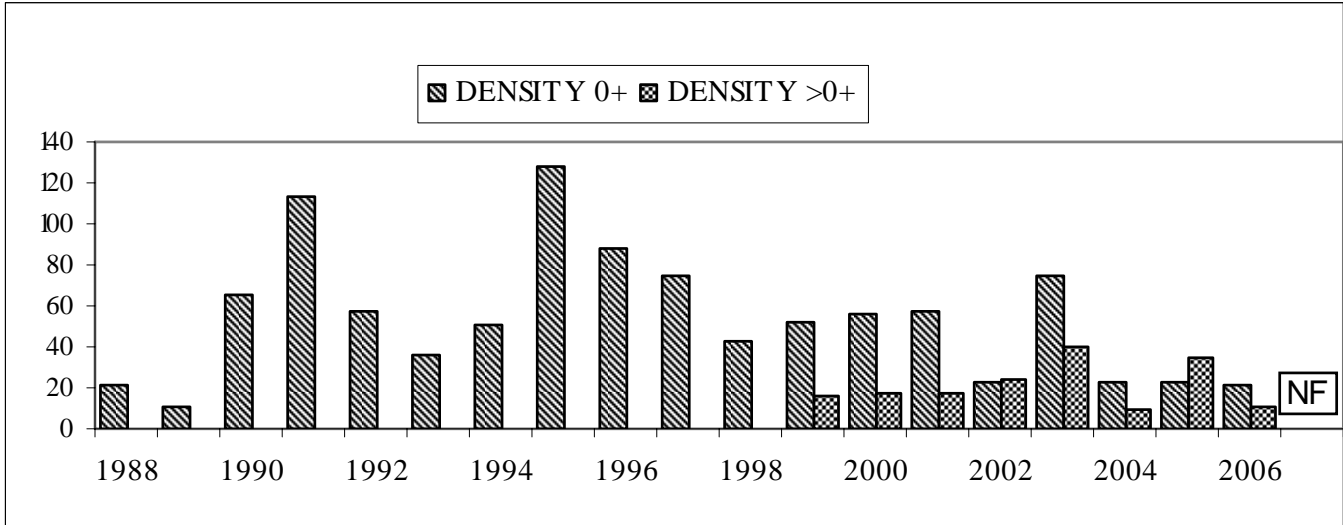


7.3.2.2 Summary statistics, Allt na Coire nan Con



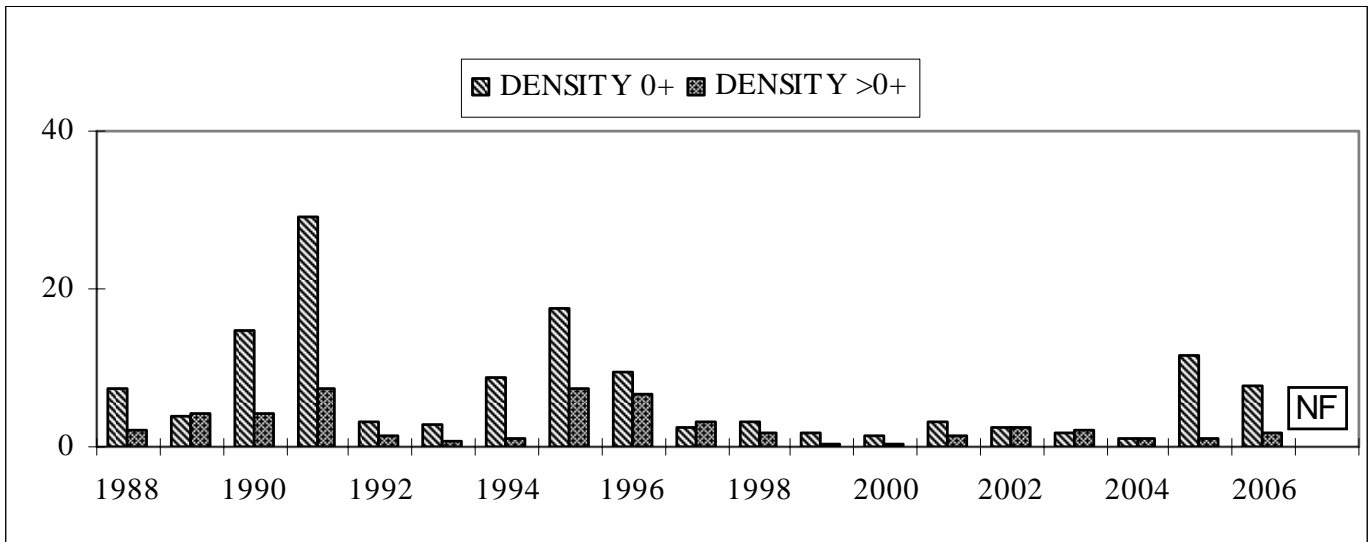
7.3.3 Fish data

7.3.3.1 Summary of mean Salmon density (total numbers 100m⁻²), Allt na Coire nan Con



Salmon age groups not split prior to 1999
 No fishing in 2007 due to funding cuts.

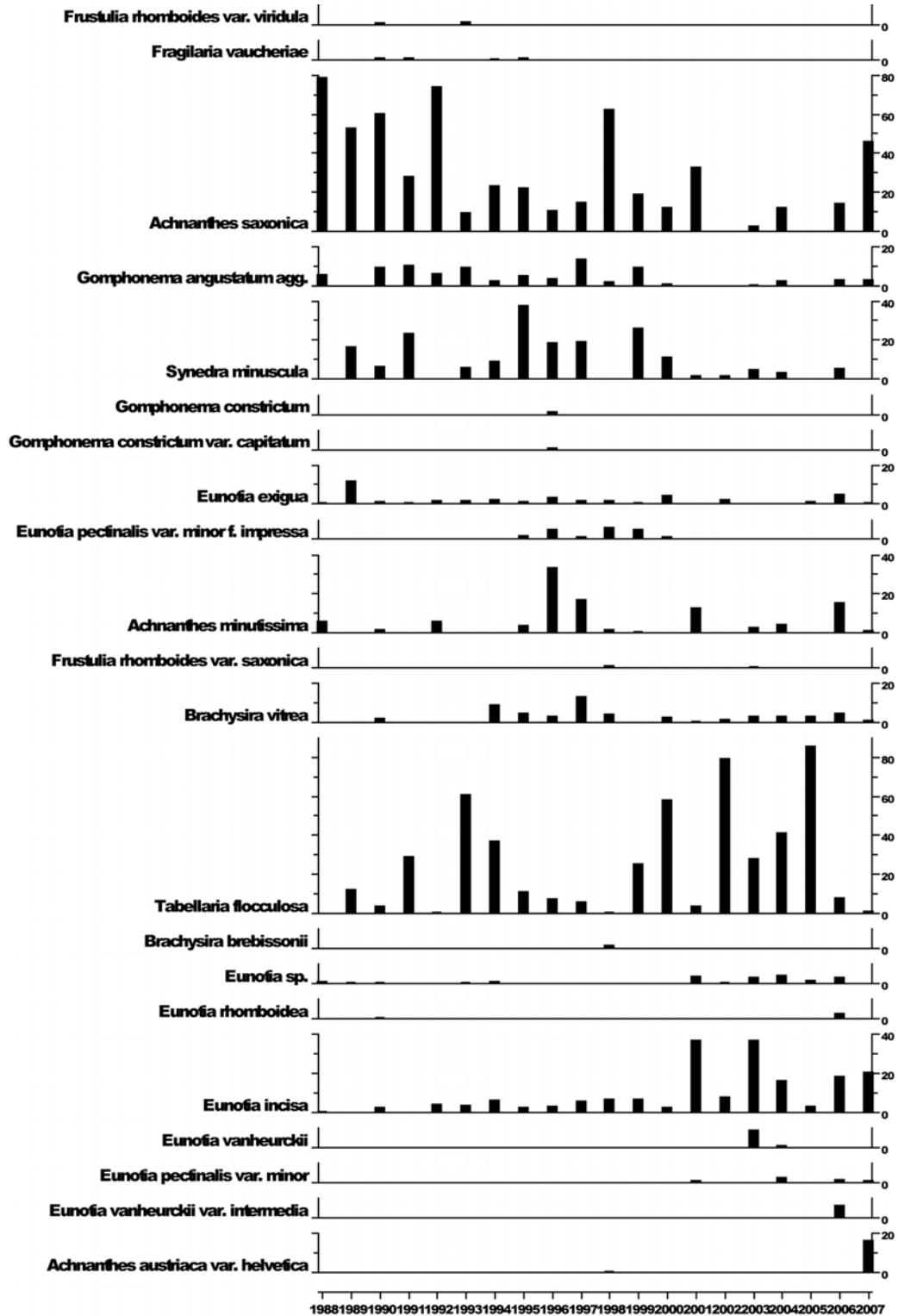
7.3.3.2 Summary of mean Trout density (numbers 100m⁻²), Allt na Coire nan Con



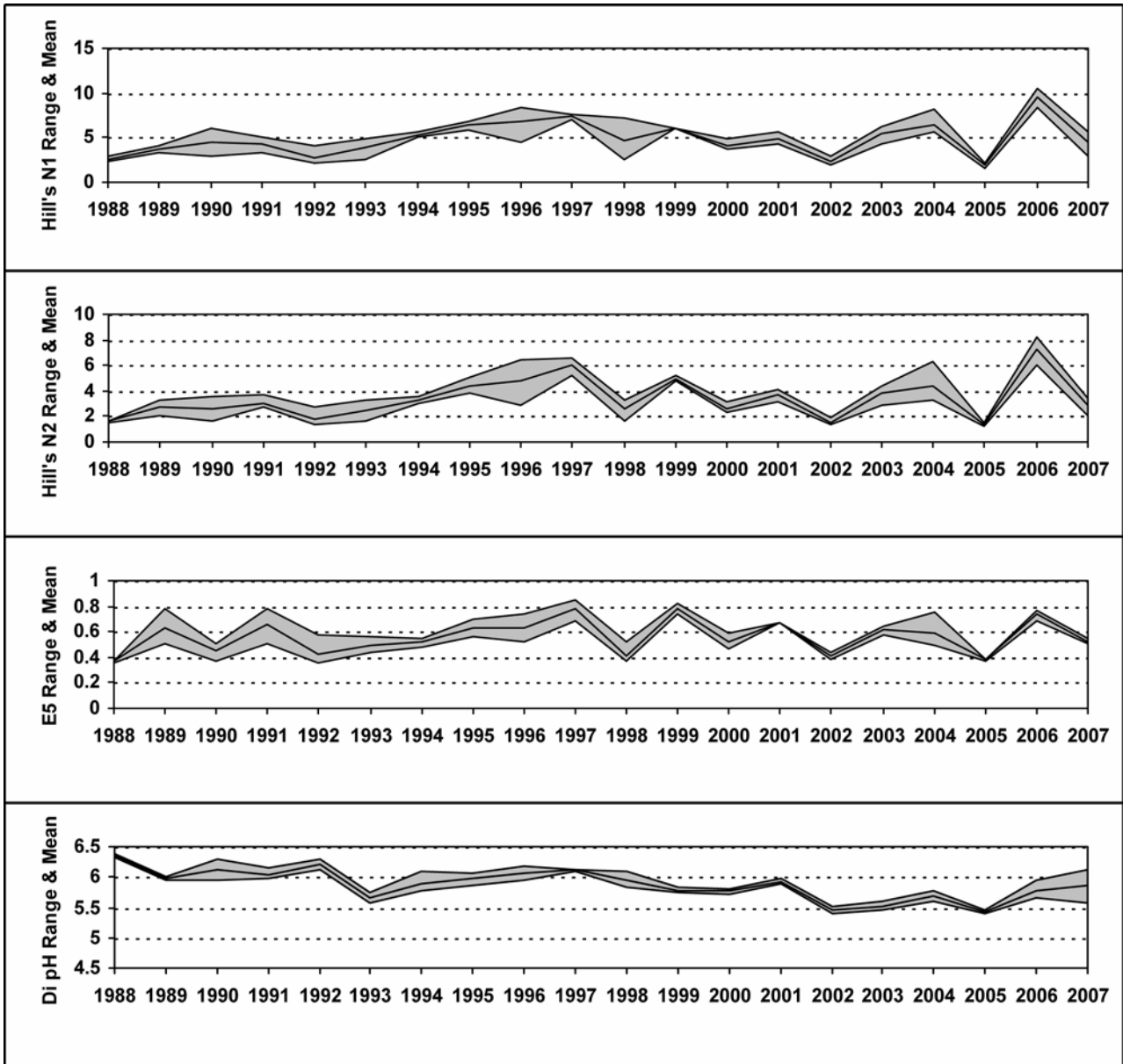
No fishing in 2007 due to funding cuts.

7.3.4 Epilithic diatom data

7.3.4.1 Percentage abundance summary, Allt na Coire nan Con

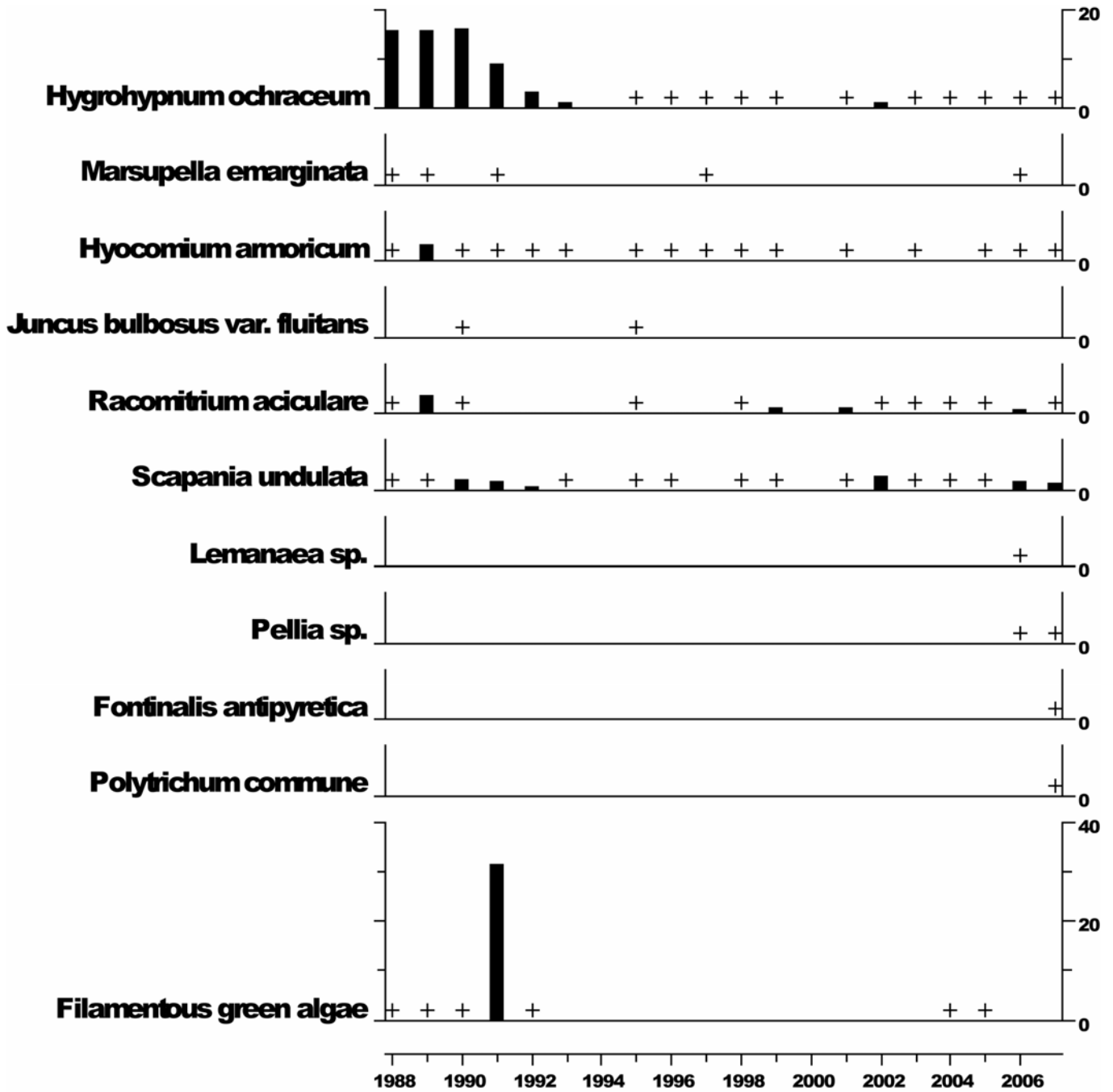


7.3.4.2 Summary statistics, Allt na Coire nan Con



7.3.5 Aquatic macrophyte data, Allt na Coire nan Con

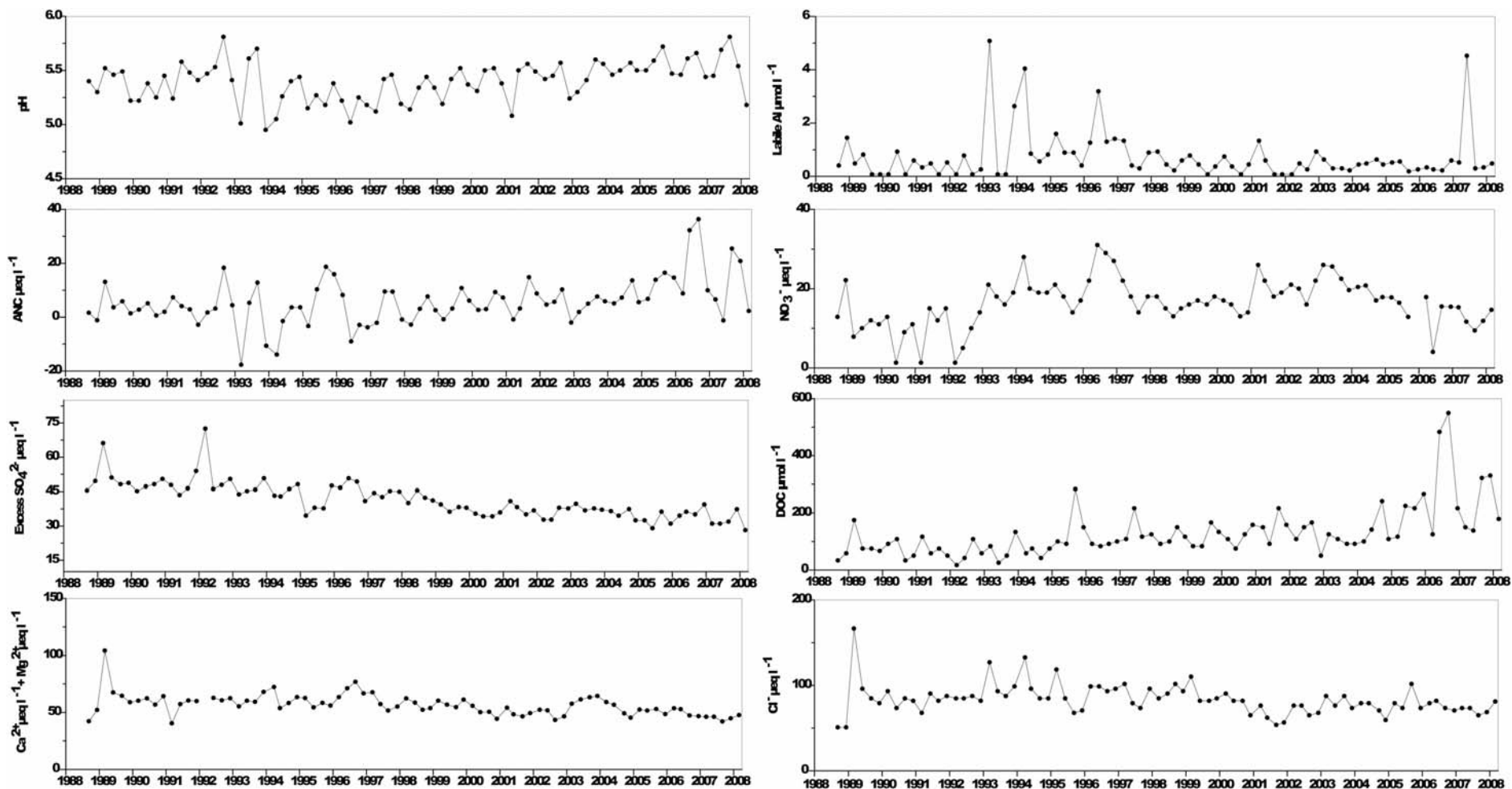
Percentage Species Cover



+ Represents <0.5% abundance

7.4 Lochnagar

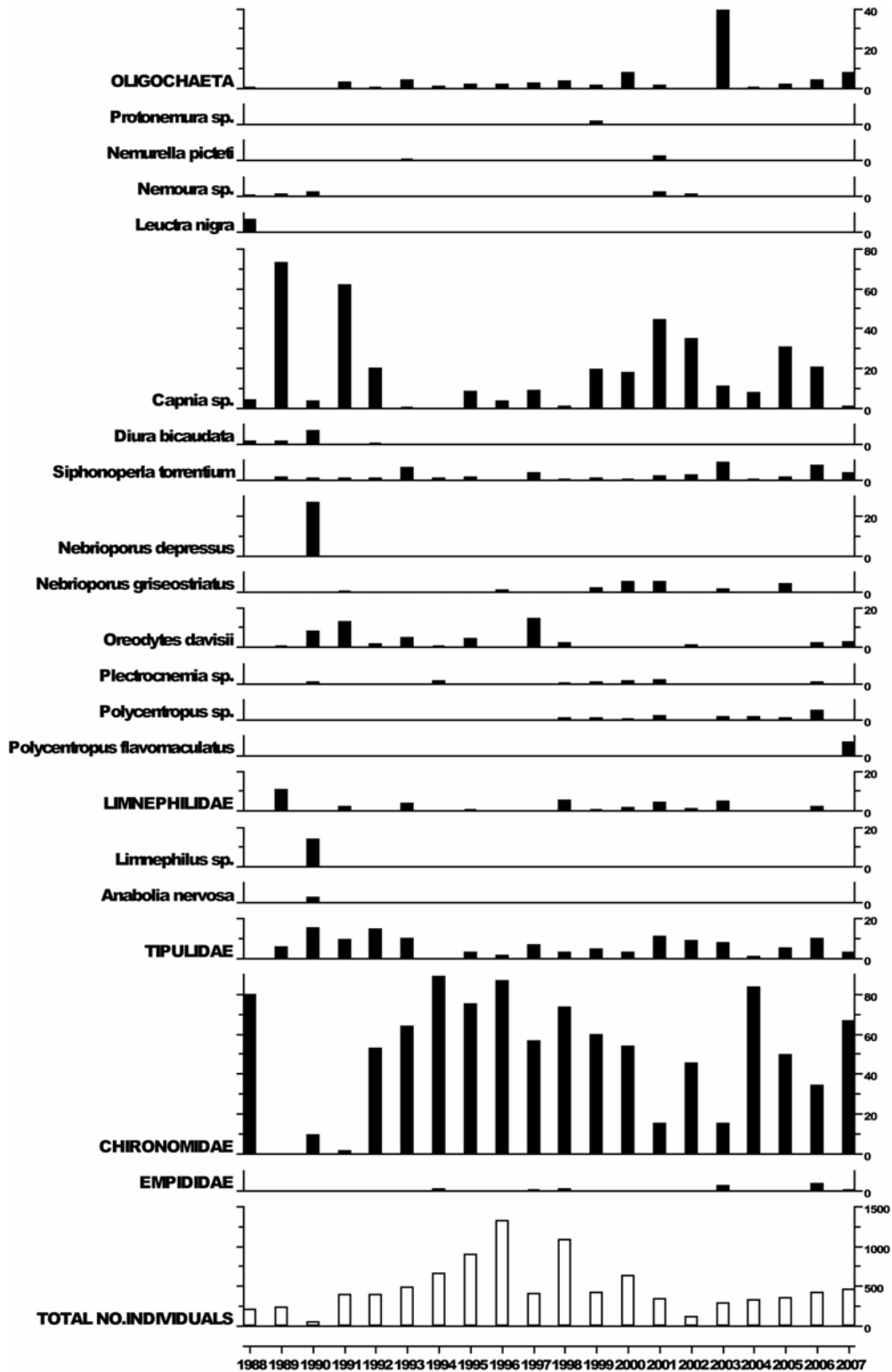
7.4.1 Spot sampled chemistry data



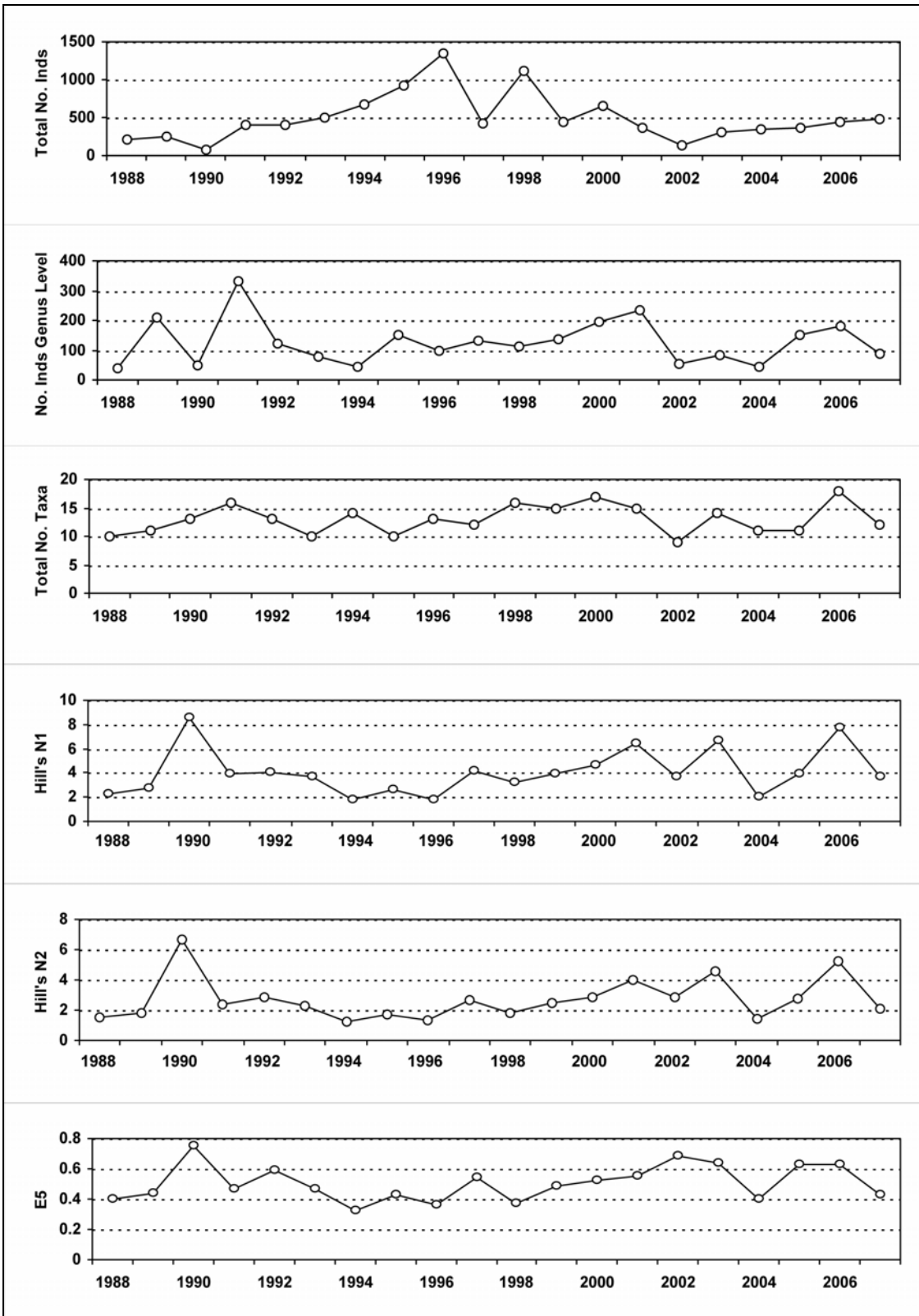
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl ⁻	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	5.40	2.84	29.06	30.57	92.22	7.54	74.21	1.19	0.66	86.88	60.64	51.51	10.77	72.37
07-08 mean	5.56	11.80	20.86	24.27	73.84	4.64	81.91	2.06	1.41	71.94	40.52	32.98	11.88	242.07
07-08 std.dev	0.27	13.27	1.62	0.83	4.93	2.78	8.21	2.36	2.08	6.94	3.49	3.93	2.14	97.86

7.4.2 Macroinvertebrate data

7.4.2.1 Percentage abundance summary, Lochnagar

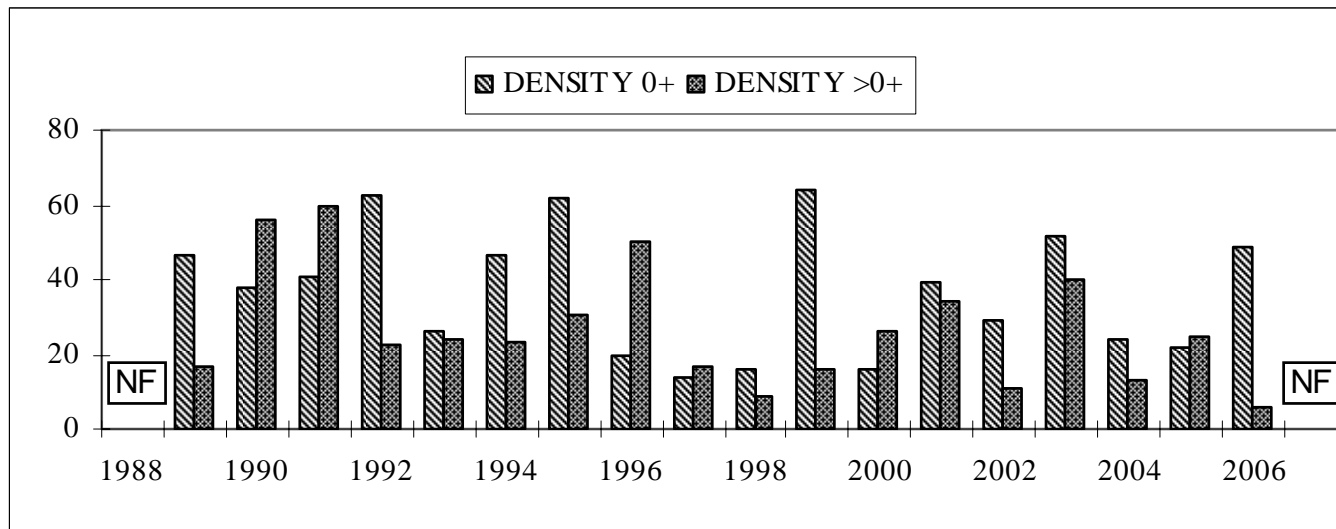


7.4.2.2 Summary statistics, Lochnagar



7.4.3 Fish data (for outflow stream)

7.4.3.1 Summary of mean Trout density (numbers 100m⁻²), Lochnagar

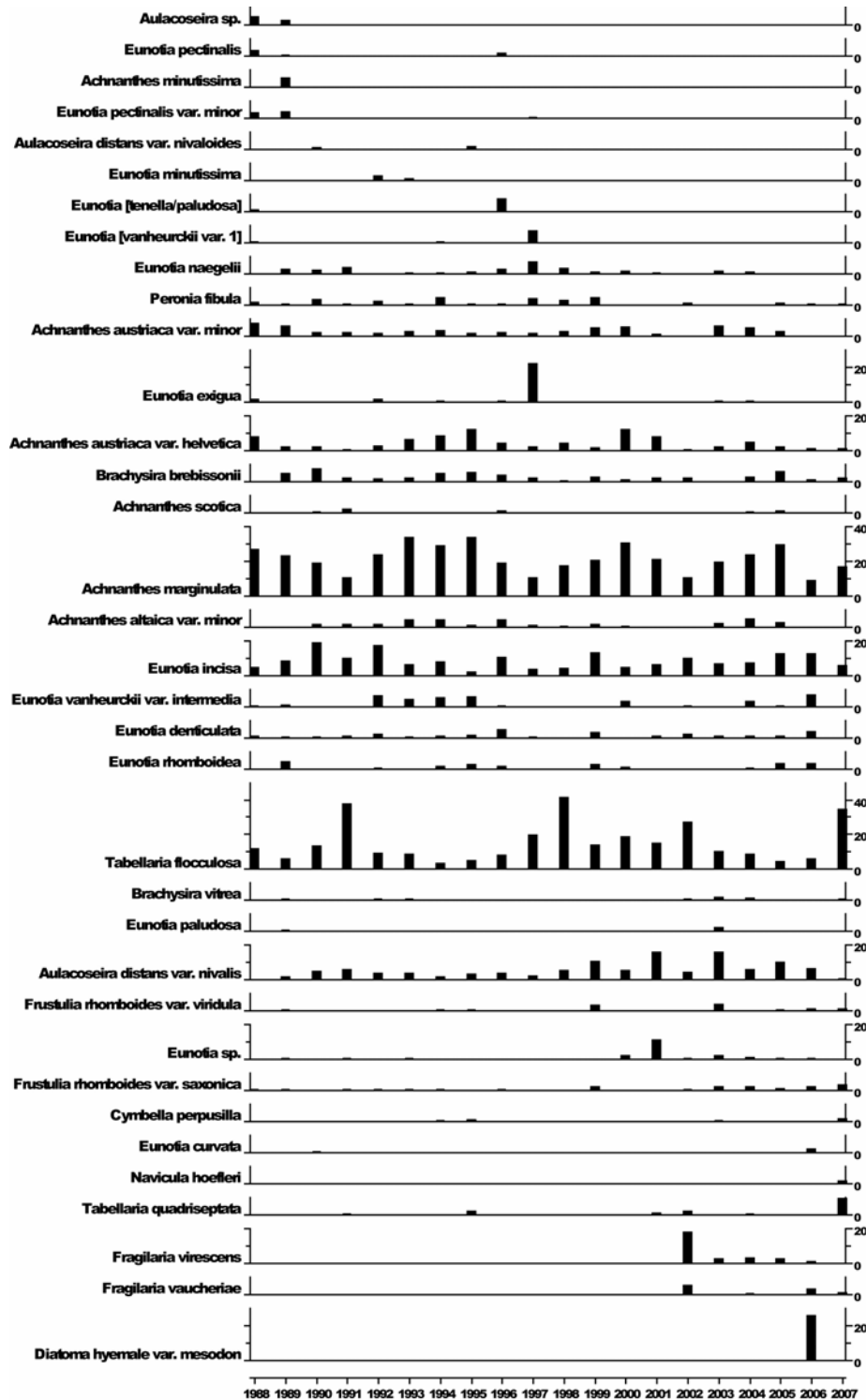


NF = Not fished

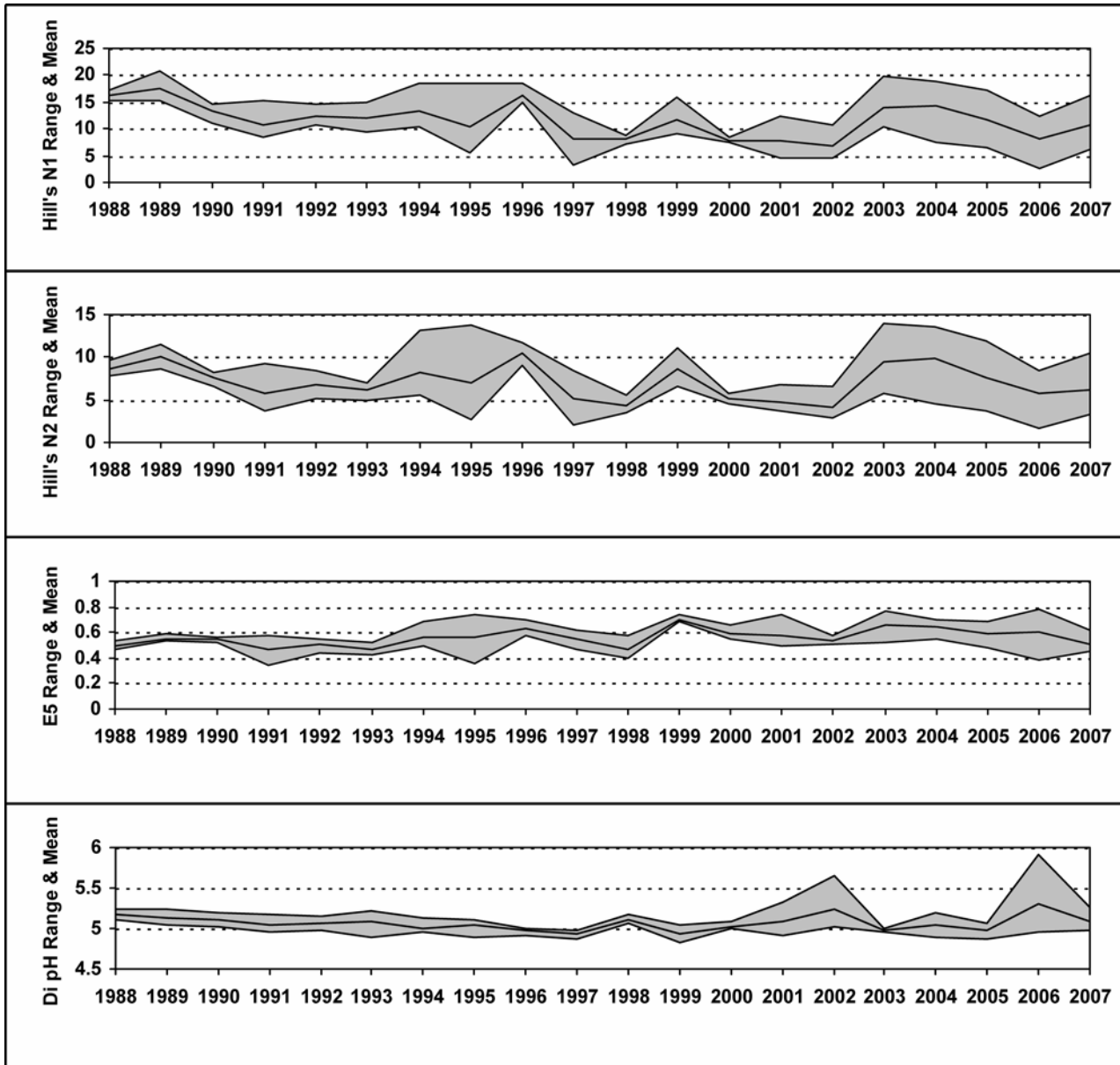
No fishing in 2007 due to funding cuts.

7.4.4 Epilithic diatom data

7.4.4.1 Percentage abundance summary, Lochnagar

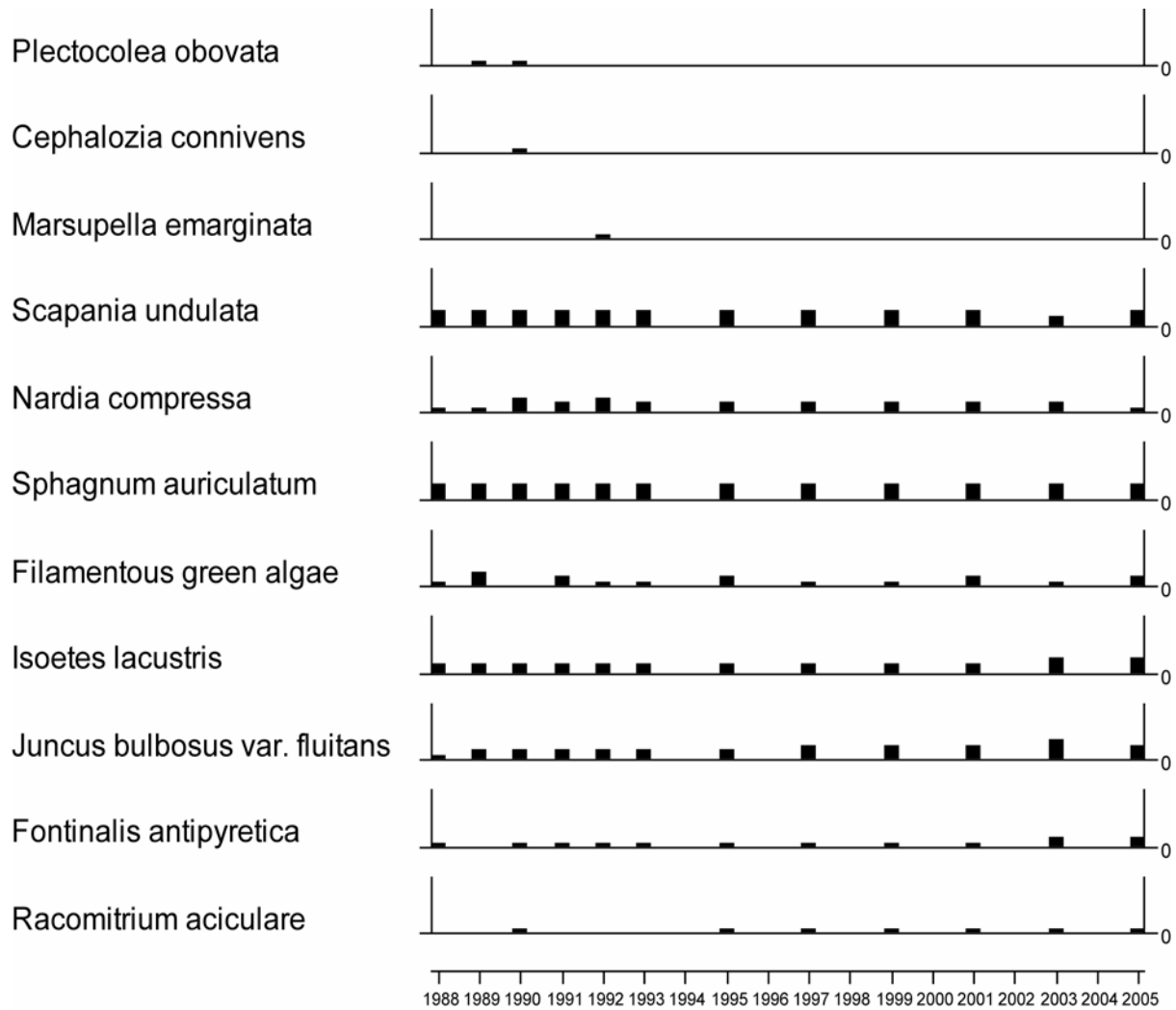


7.4.4.2 Summary statistics, Lochnagar



7.4.5 Aquatic macrophyte data, Lochnagar

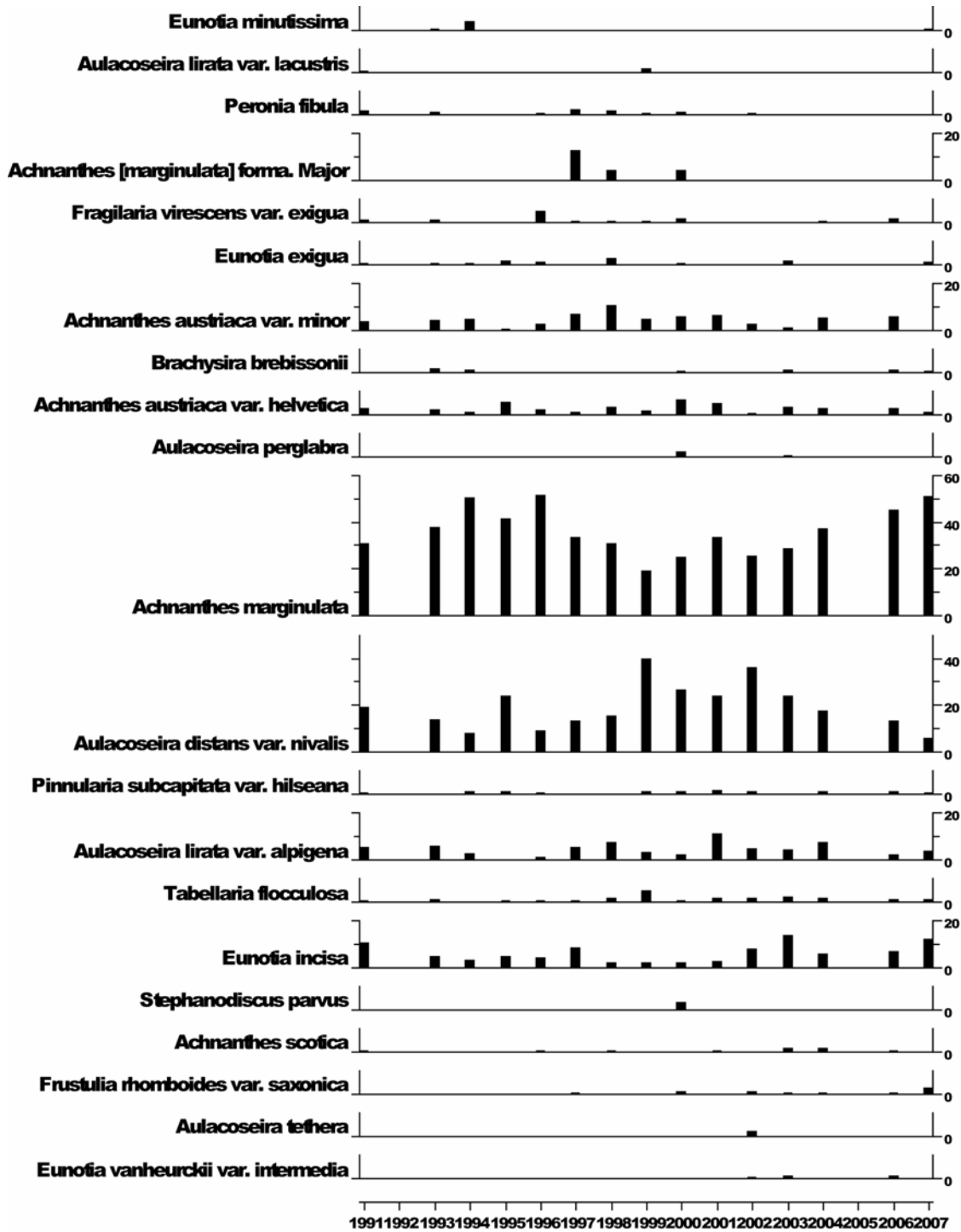
Species Scores (1-5)



No survey in 2007 due to funding cuts

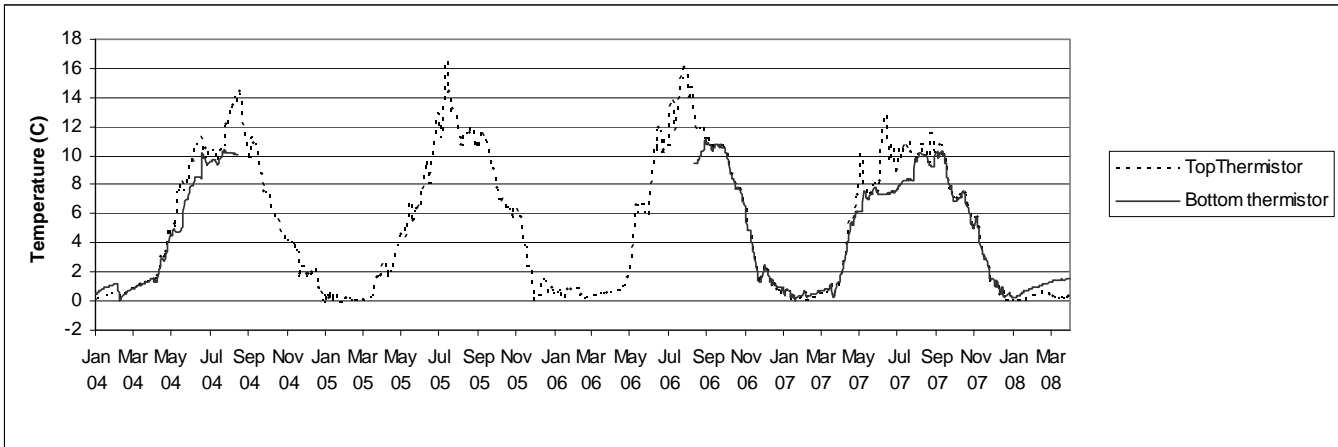
7.4.6 Sediment trap data, Lochnagar

Relative percentage frequency of diatom taxa

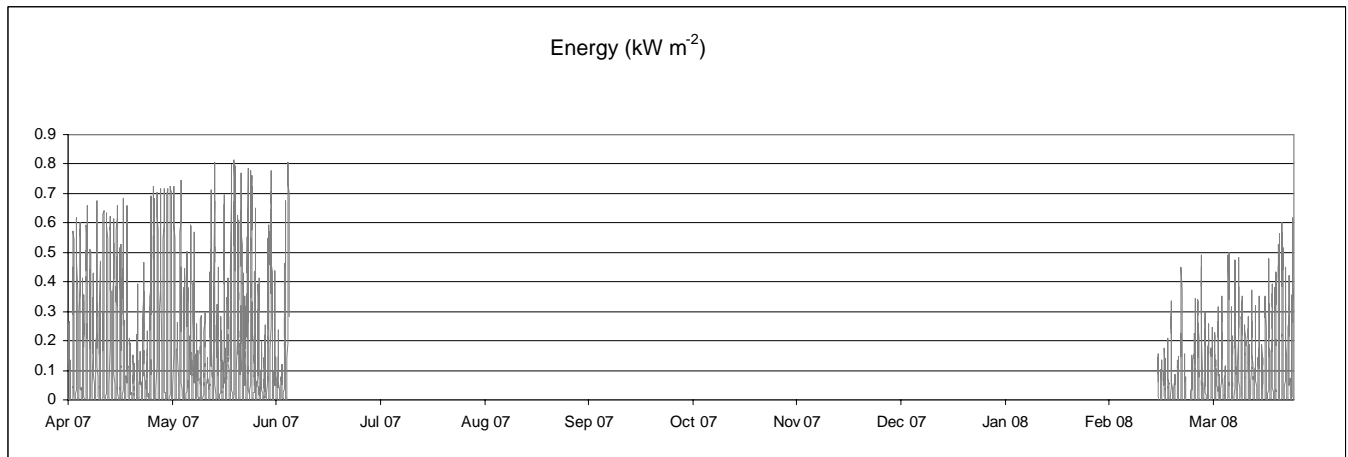
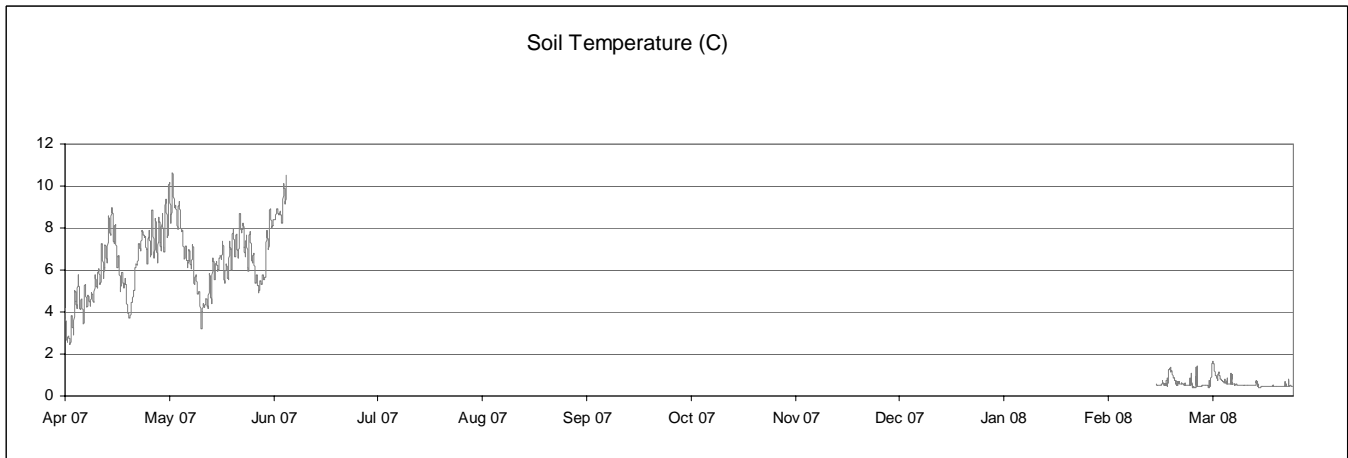
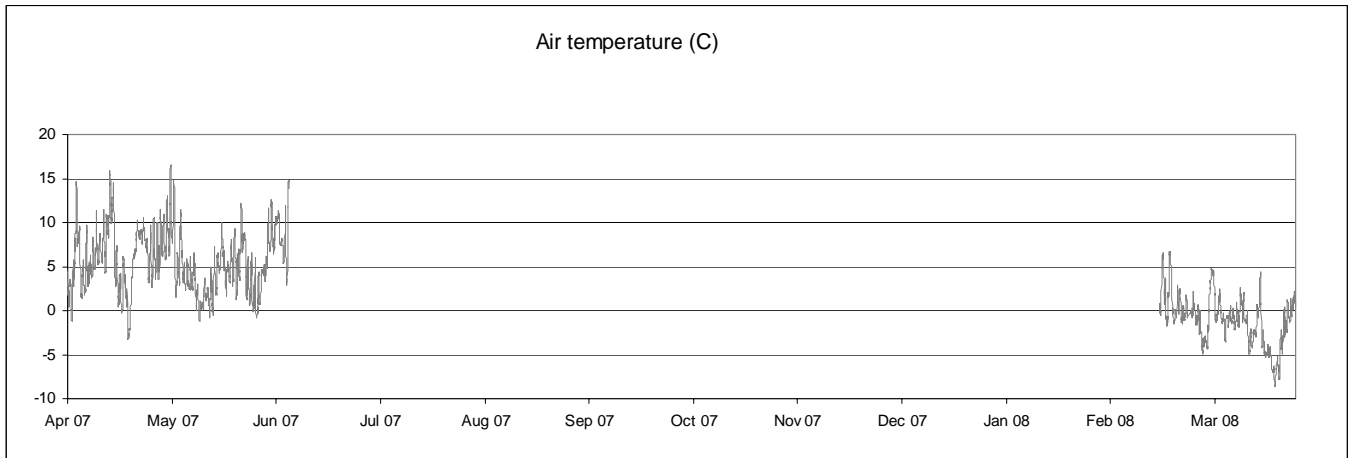


Sediment traps not recovered in 1992 or 2005

7.4.7 Thermistor data, Lochnagar

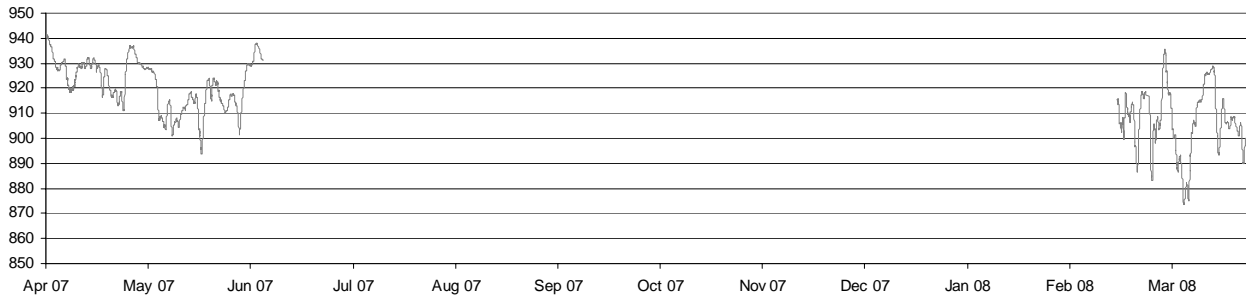


7.4.8 Weather station data, Lochnagar

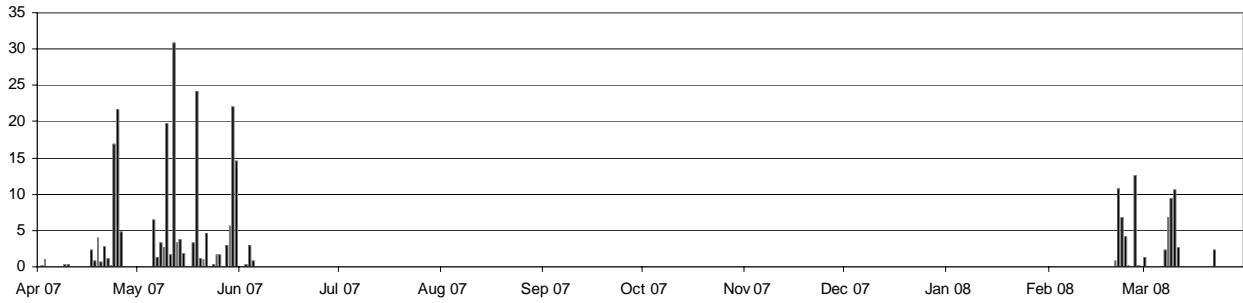


Data gap due to station malfunction.

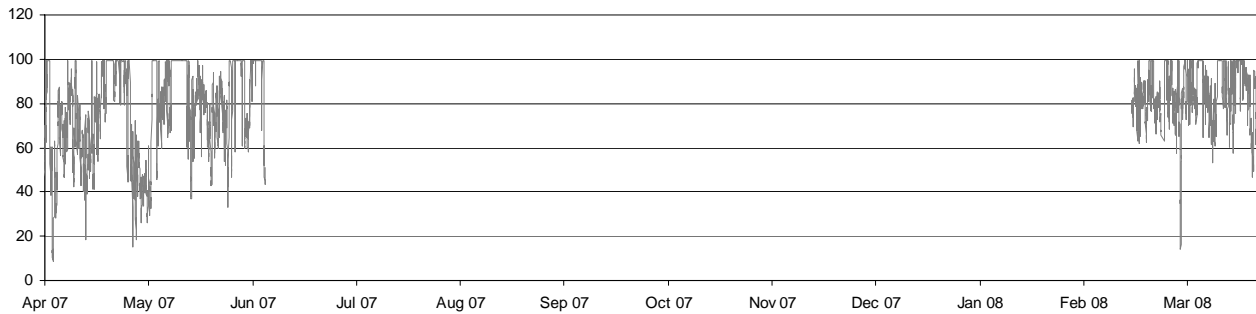
Air Pressure (millibar)



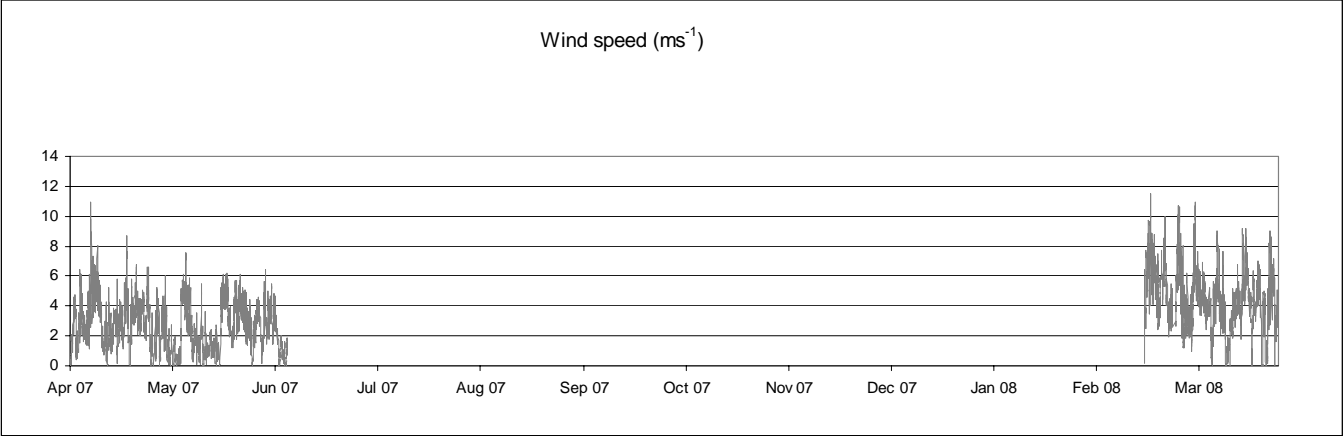
Rainfall (mm)



Relative Humidity (%)



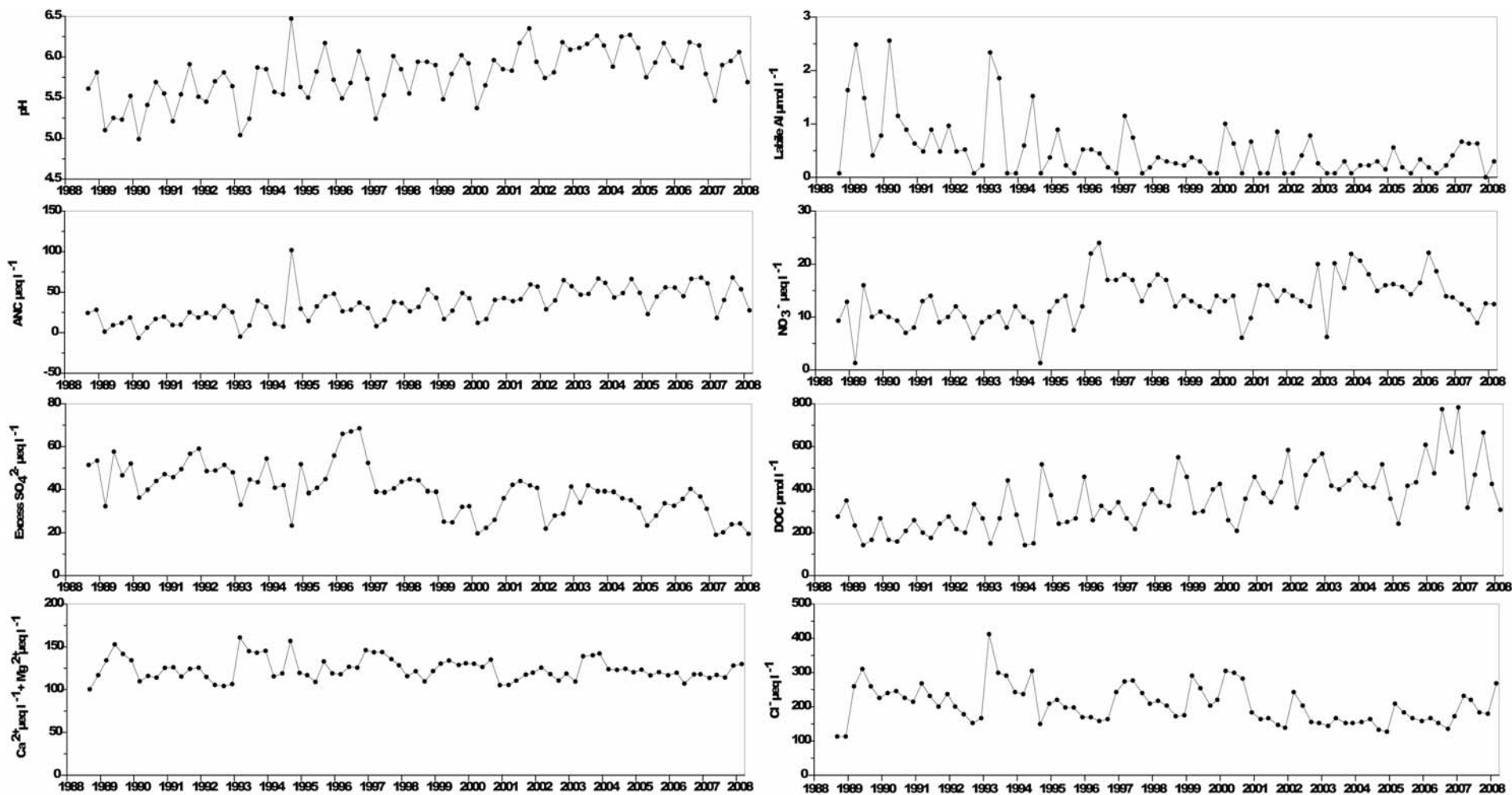
Data gap due to station malfunction.



Data gap due to station malfunction.

7.5 Loch Chon

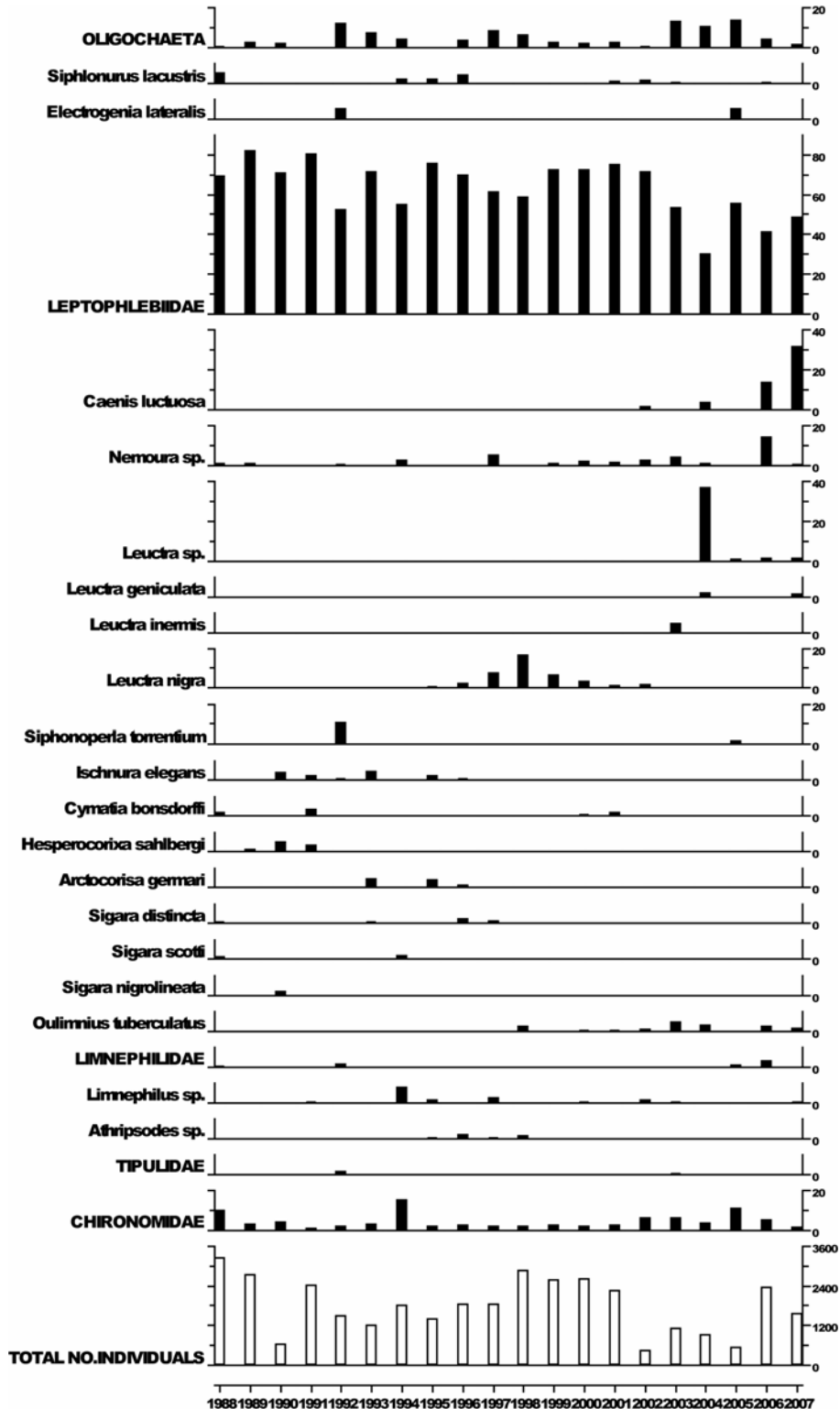
7.5.1 Spot sampled chemistry data



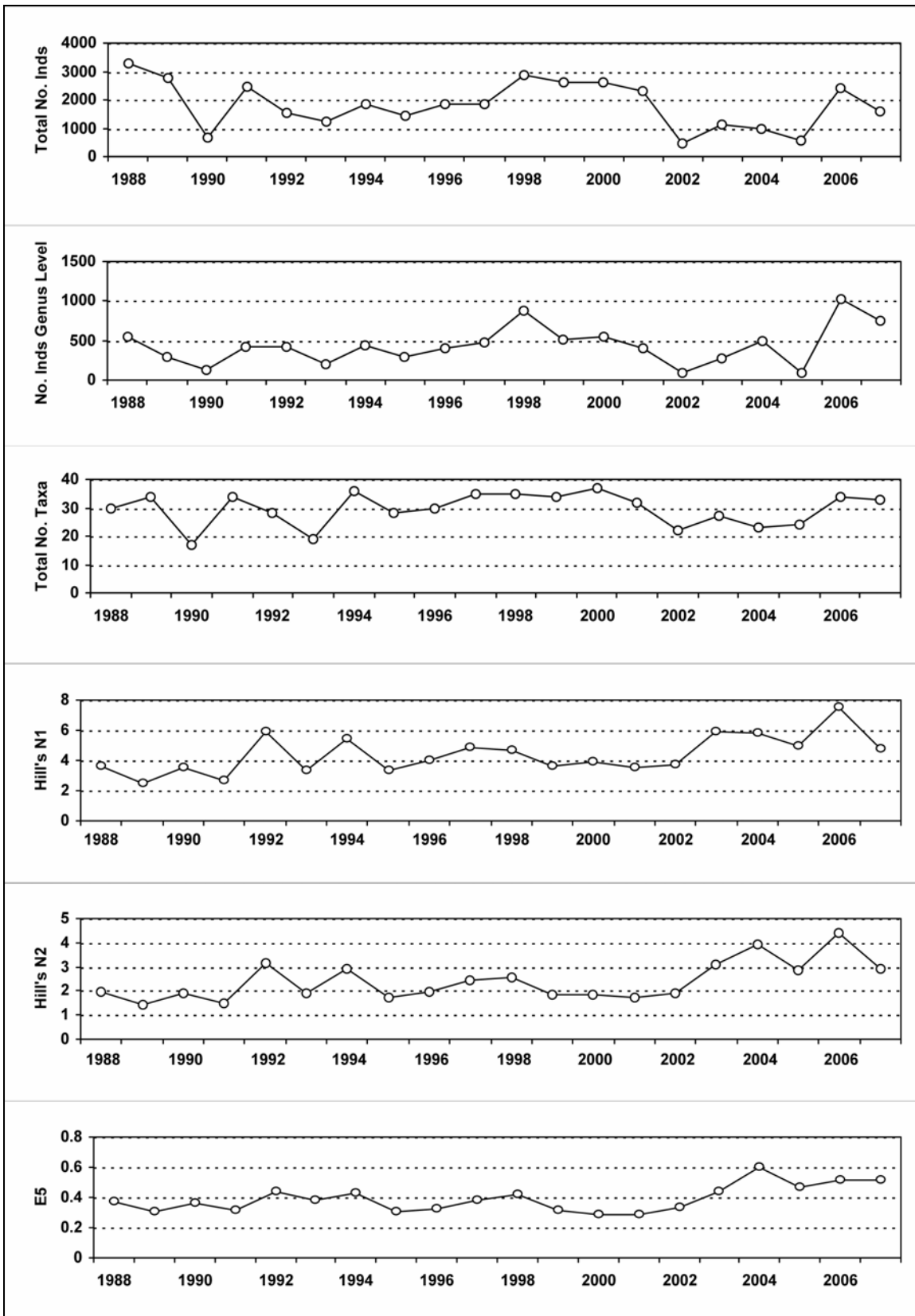
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	5.47	14.84	75.74	47.50	186.30	5.65	31.58	2.43	0.97	223.40	72.15	48.69	9.88	225.40
07-08 mean	5.90	47.31	73.73	48.55	169.11	7.42	46.80	1.59	0.39	212.77	44.78	22.49	11.29	465.82
07-08 std.dev	0.16	17.41	5.71	3.77	25.63	2.60	17.75	0.49	0.30	41.28	2.16	2.56	1.72	148.94

7.5.2 Macroinvertebrate data

7.5.2.1 Percentage abundance summary, Loch Chon

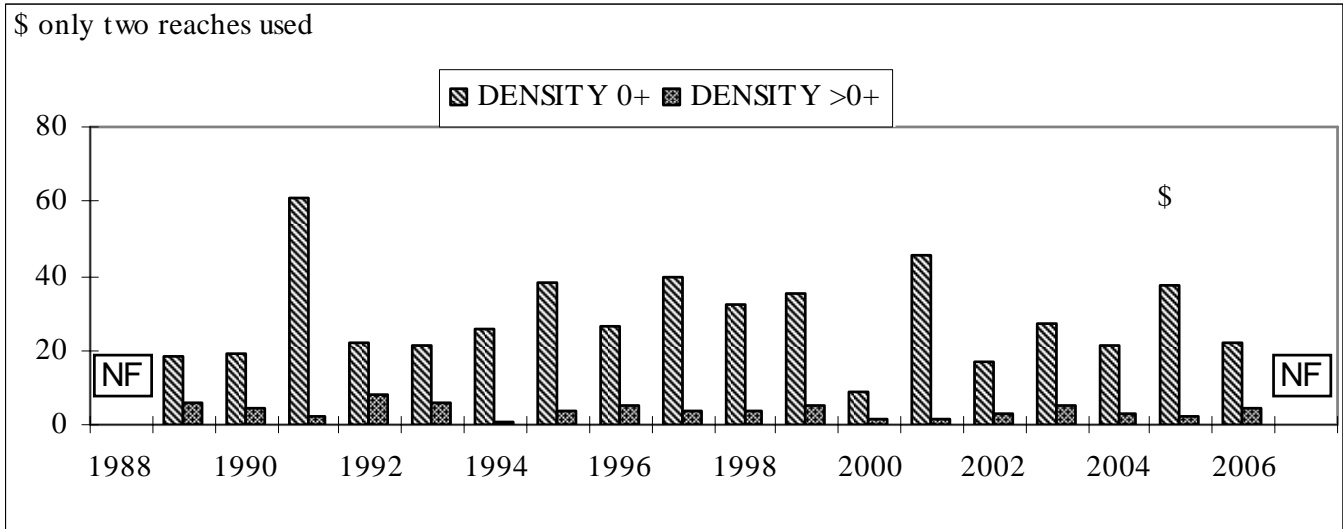


7.5.2.2 Summary statistics, Loch Chon



7.5.3 Fish data (for outflow stream)

7.5.3.1 Summary of mean Trout density (numbers 100m⁻²), Loch Chon

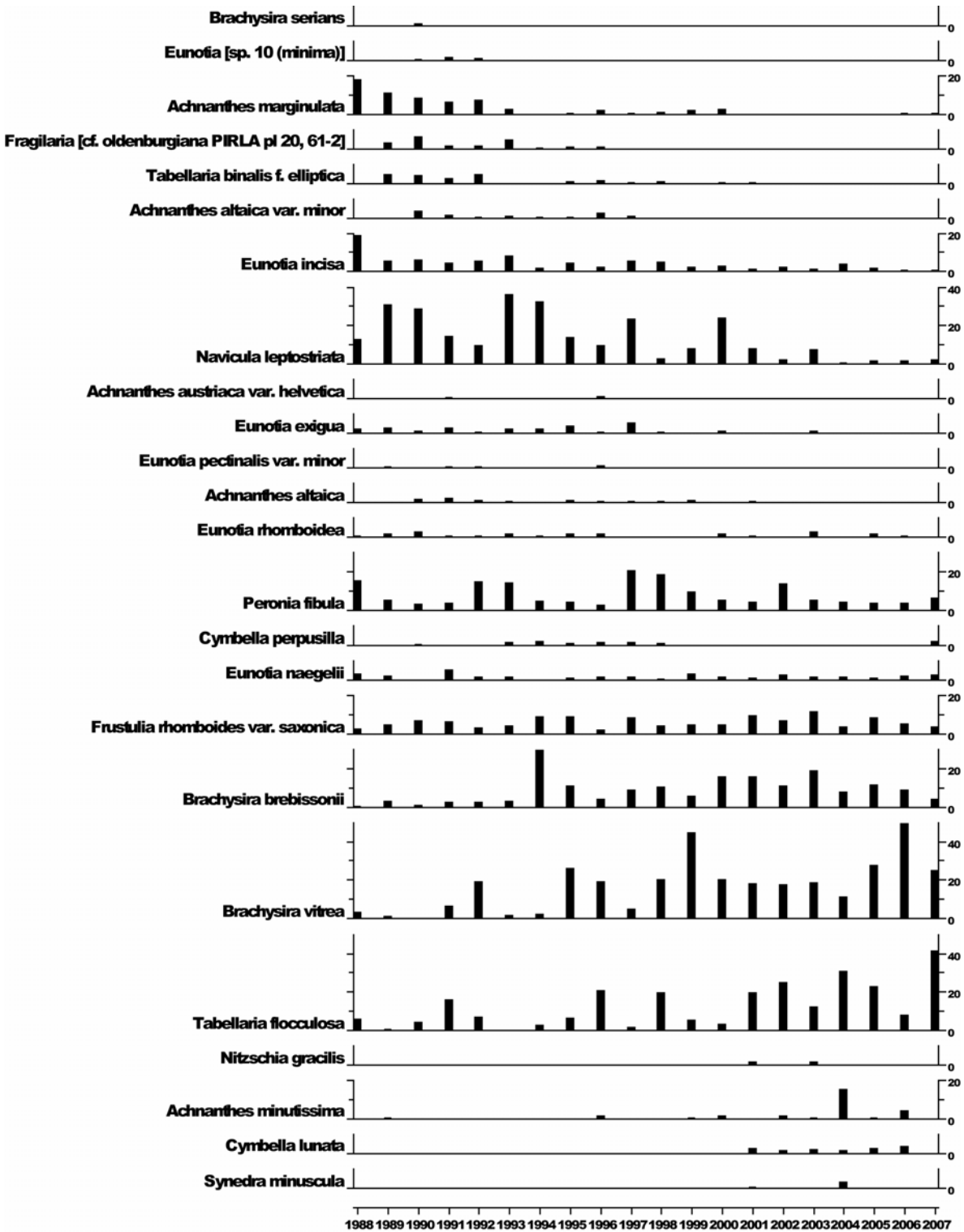


NF = Not fished

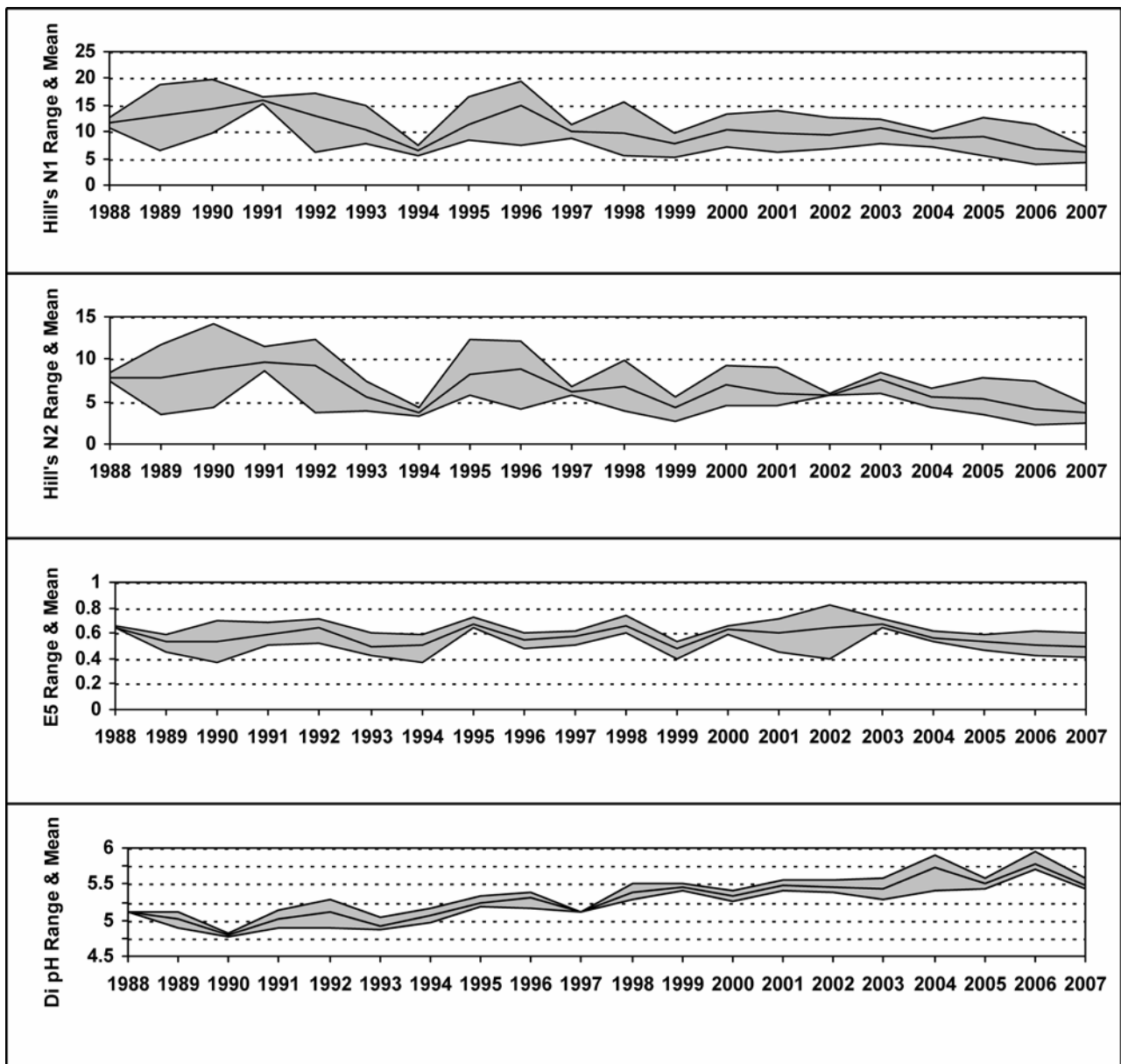
No fishing in 2007 due to funding cuts.

7.5.4 Epilithic diatom data

7.5.4.1 Percentage abundance summary, Loch Chon

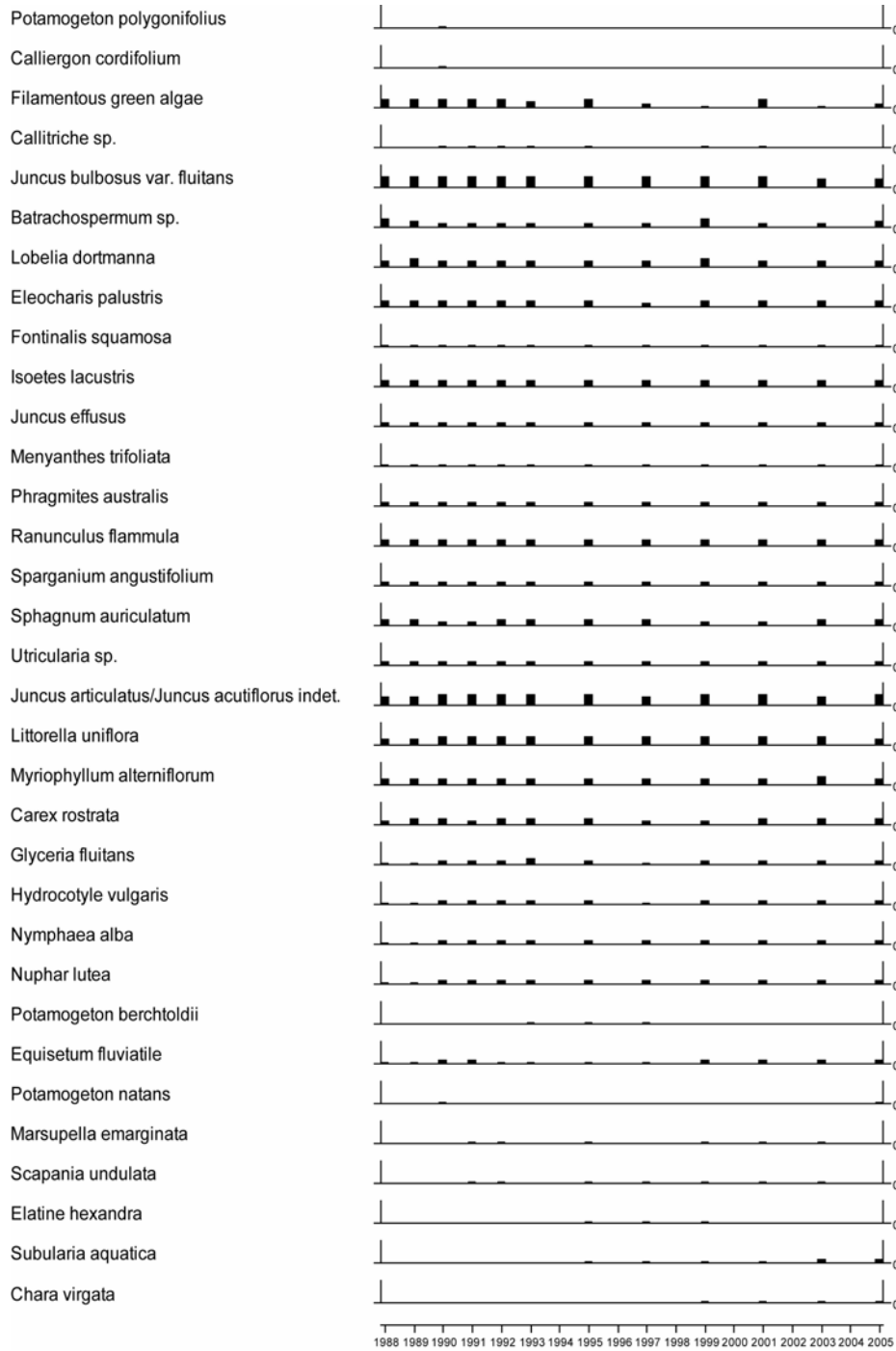


7.5.4.2 Summary statistics, Loch Chon



7.5.5 Aquatic macrophyte data, Loch Chon

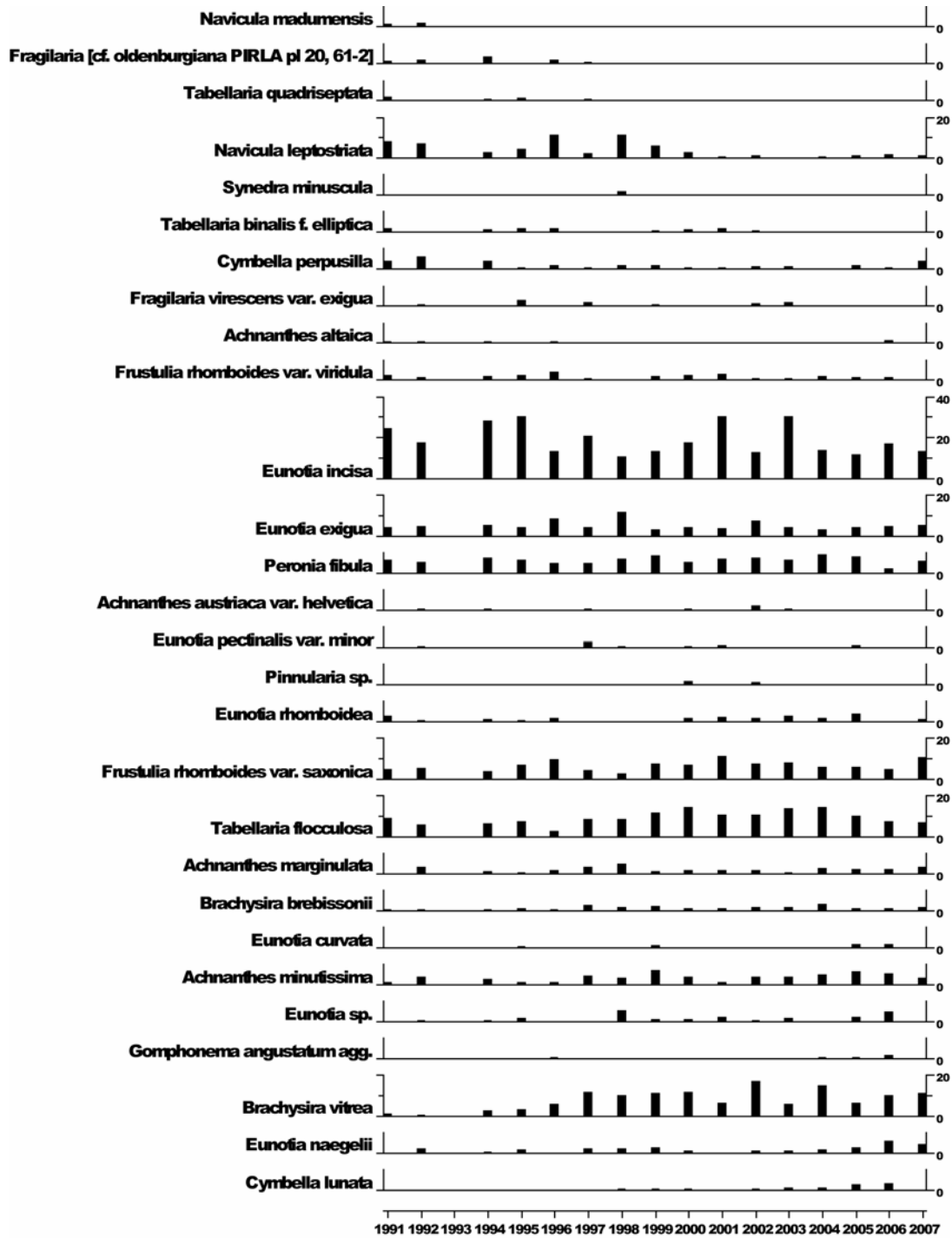
Species Scores (1-5)



No survey in 2007 due to funding cuts

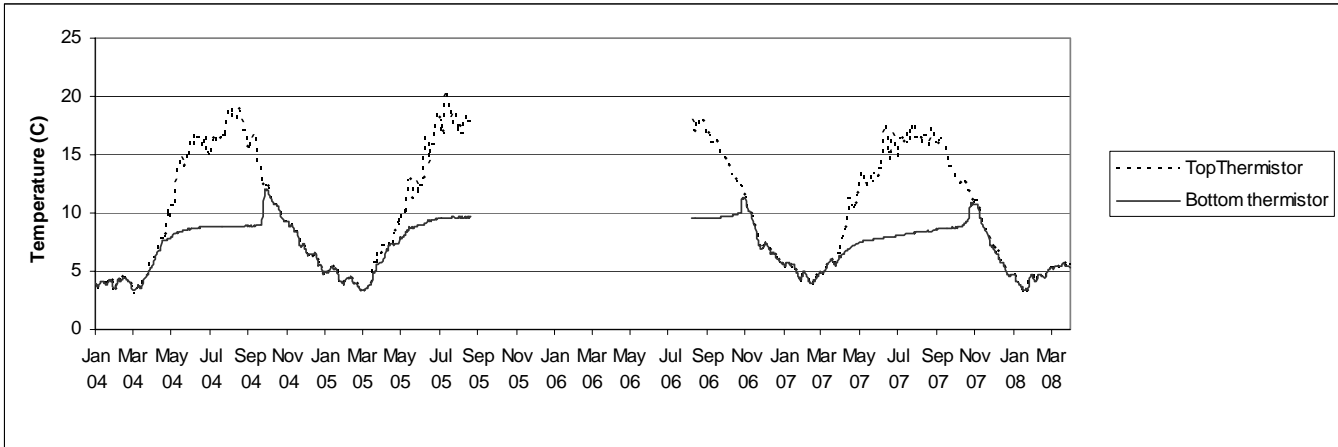
7.5.6 Sediment trap data, Loch Chon

Relative percentage frequency of diatom taxa



Traps not recovered in 1993

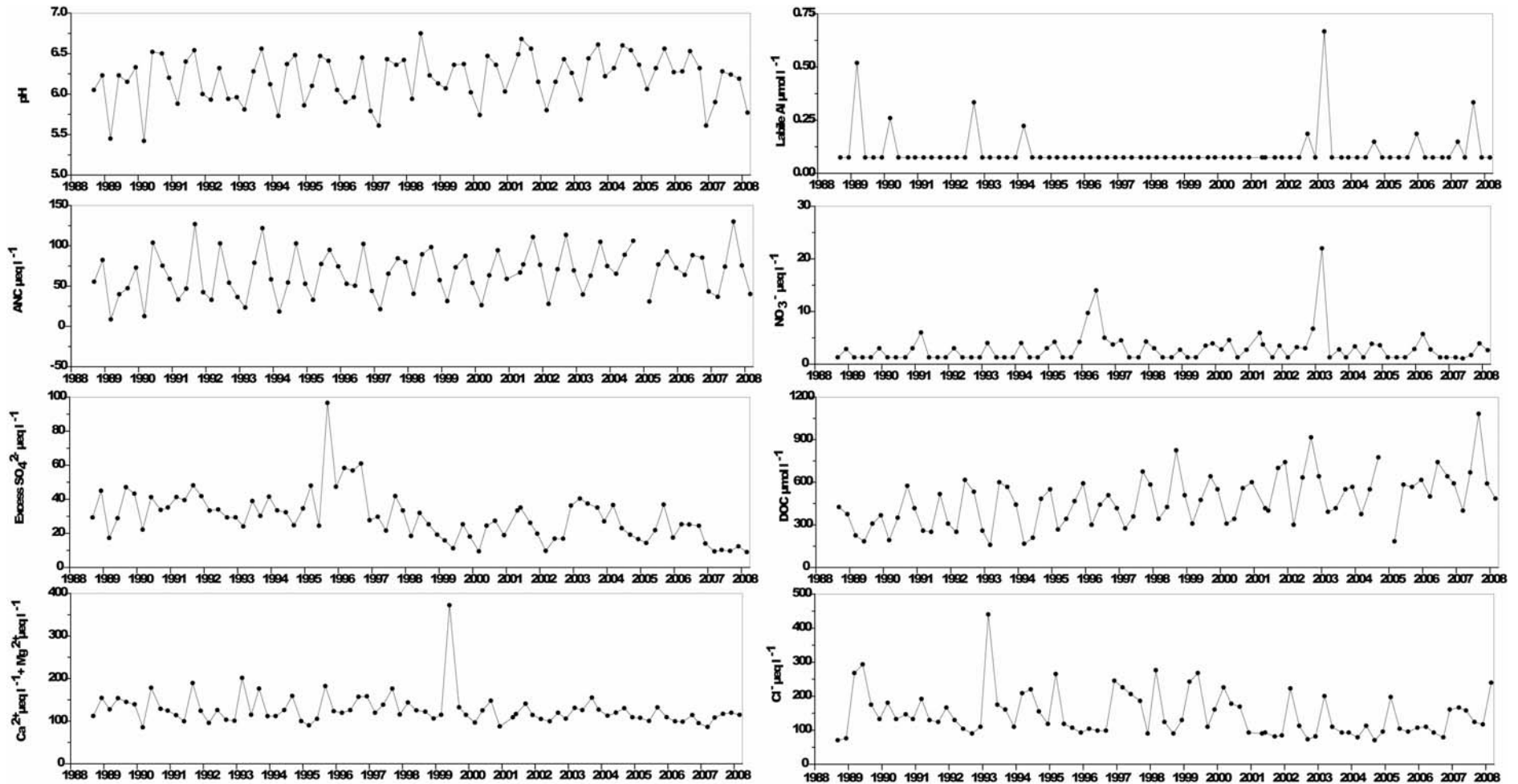
7.5.7 Thermistor data, Loch Chon



Thermistors not recovered in 2006

7.6 Loch Tinker

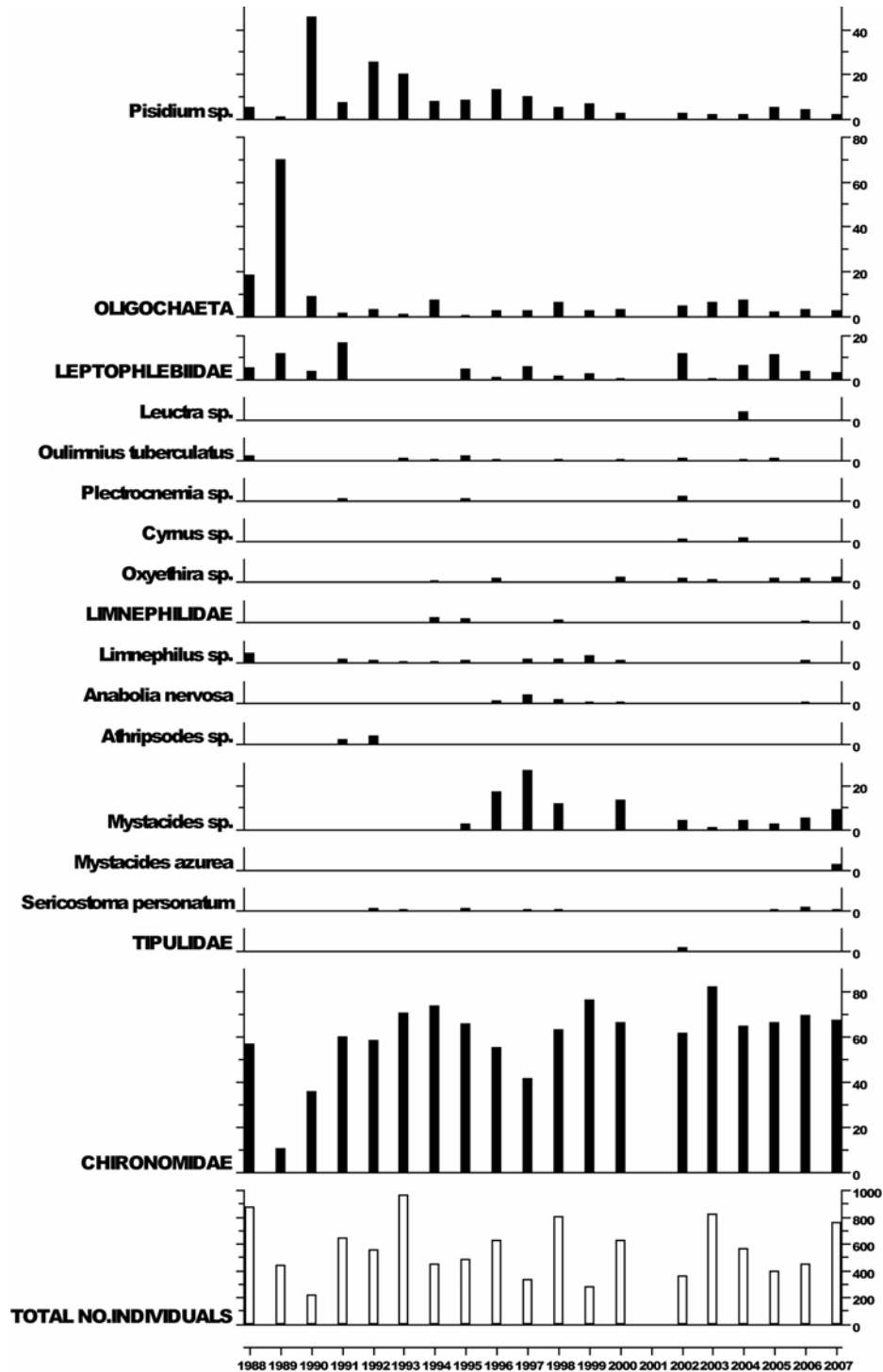
7.6.1 Spot sampled chemistry data



$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	6.10	55.51	86.00	46.45	140.00	7.22	24.06	0.72	0.12	162.60	52.96	35.88	2.03	345.60
07-08 mean	6.12	79.86	74.73	40.13	131.37	7.23	57.34	0.55	0.10	159.67	27.31	10.57	2.34	706.23
07-08 std.dev	0.24	37.20	6.06	3.76	32.57	3.21	46.02	0.23	0.16	56.14	4.97	1.50	1.24	261.30

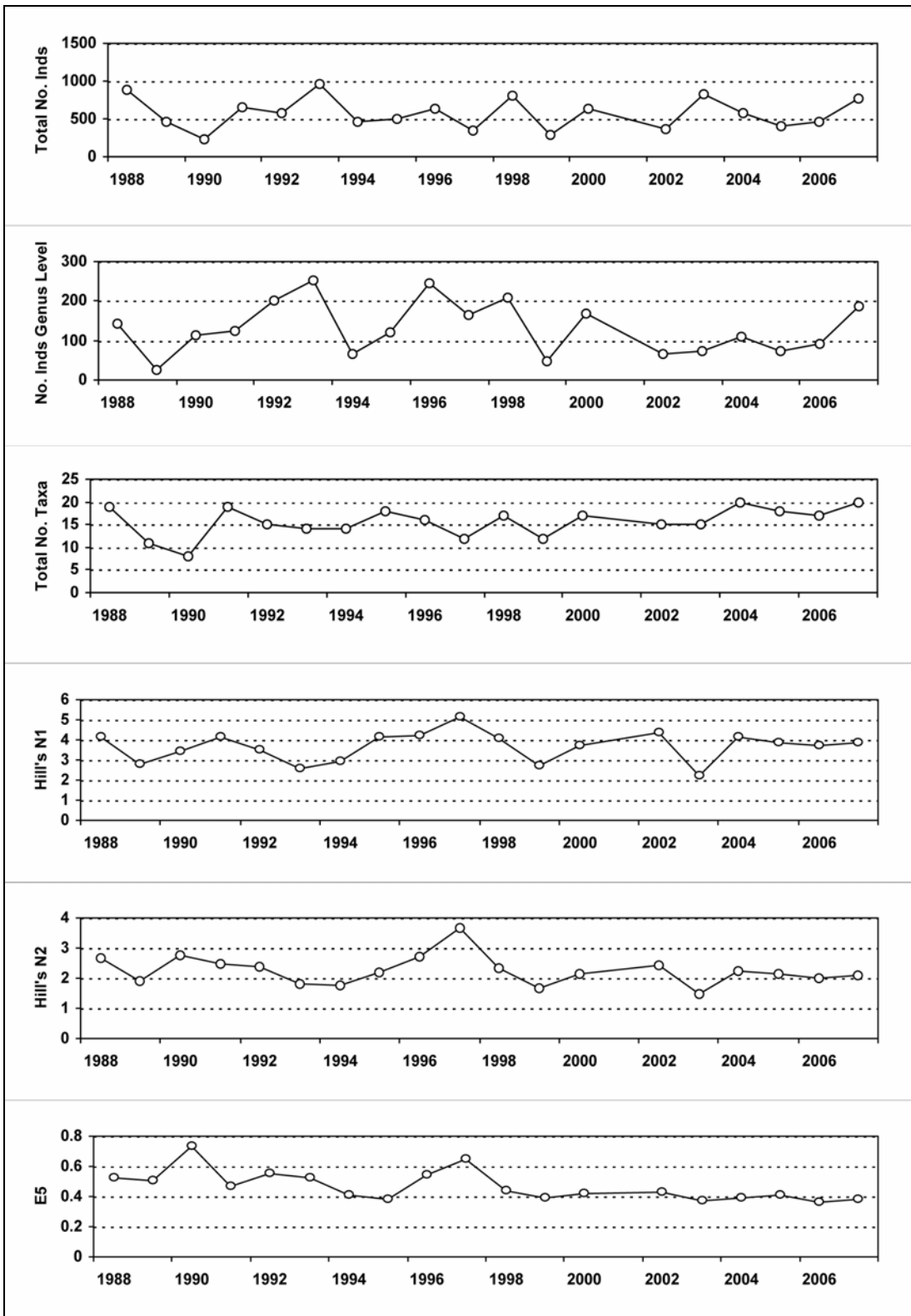
7.6.2 Macroinvertebrate data

7.6.2.1 Percentage abundance summary, Loch Tinker



No sampling in 2001 due to Foot and Mouth restrictions.

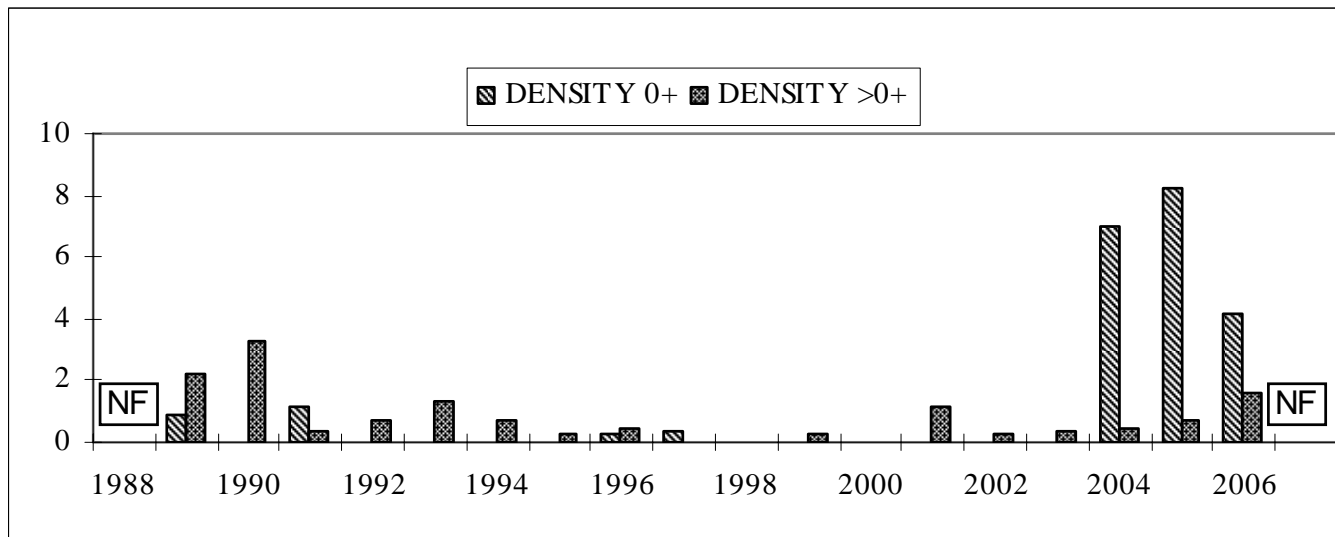
7.6.2.2 Summary statistics, Loch Tinker



No sampling in 2001 due to Foot and Mouth restrictions.

7.6.3 Fish data (for outflow stream)

7.6.3.1 Summary of mean Trout density (numbers 100m⁻²), Loch Tinker

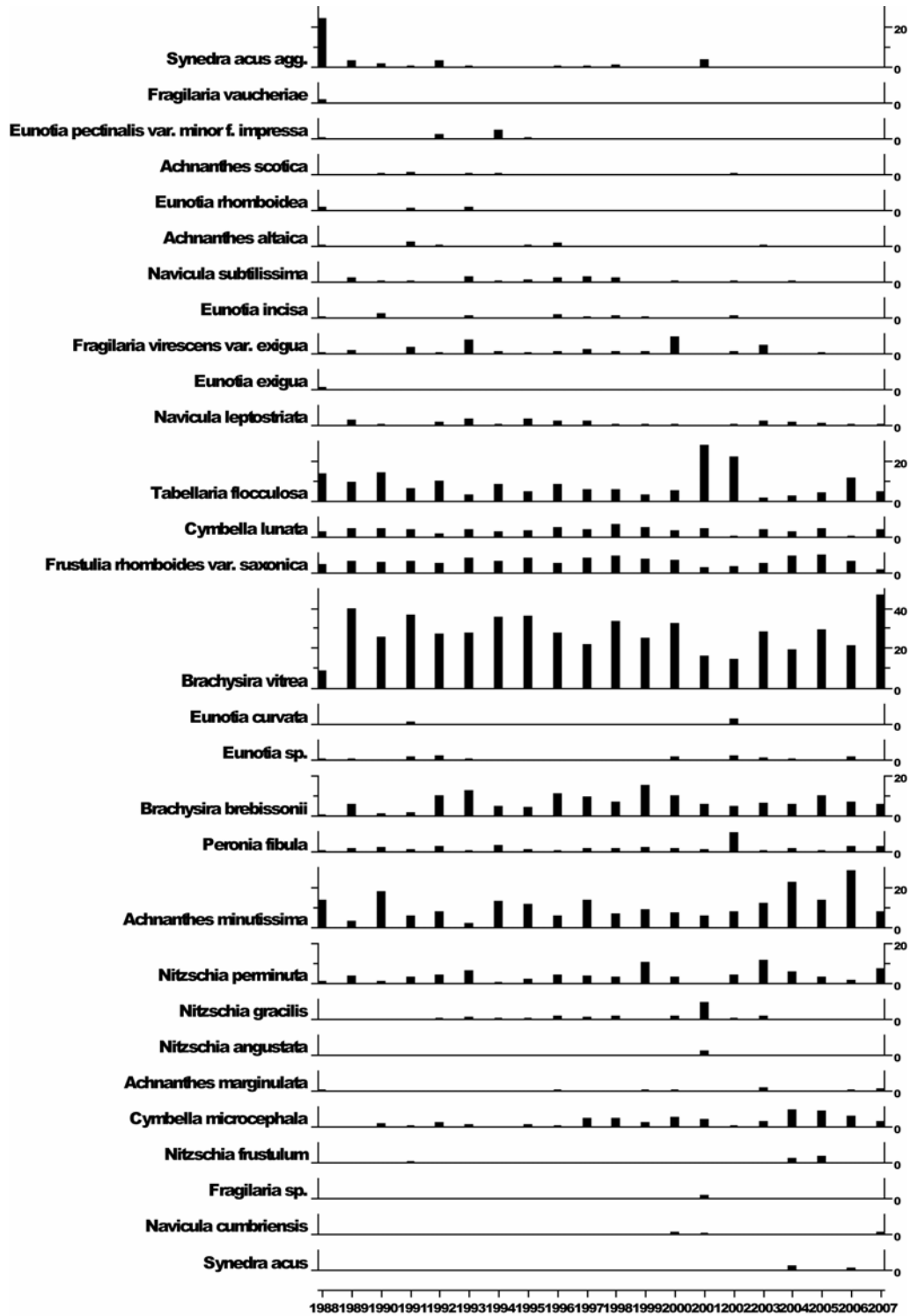


NF = Not fished

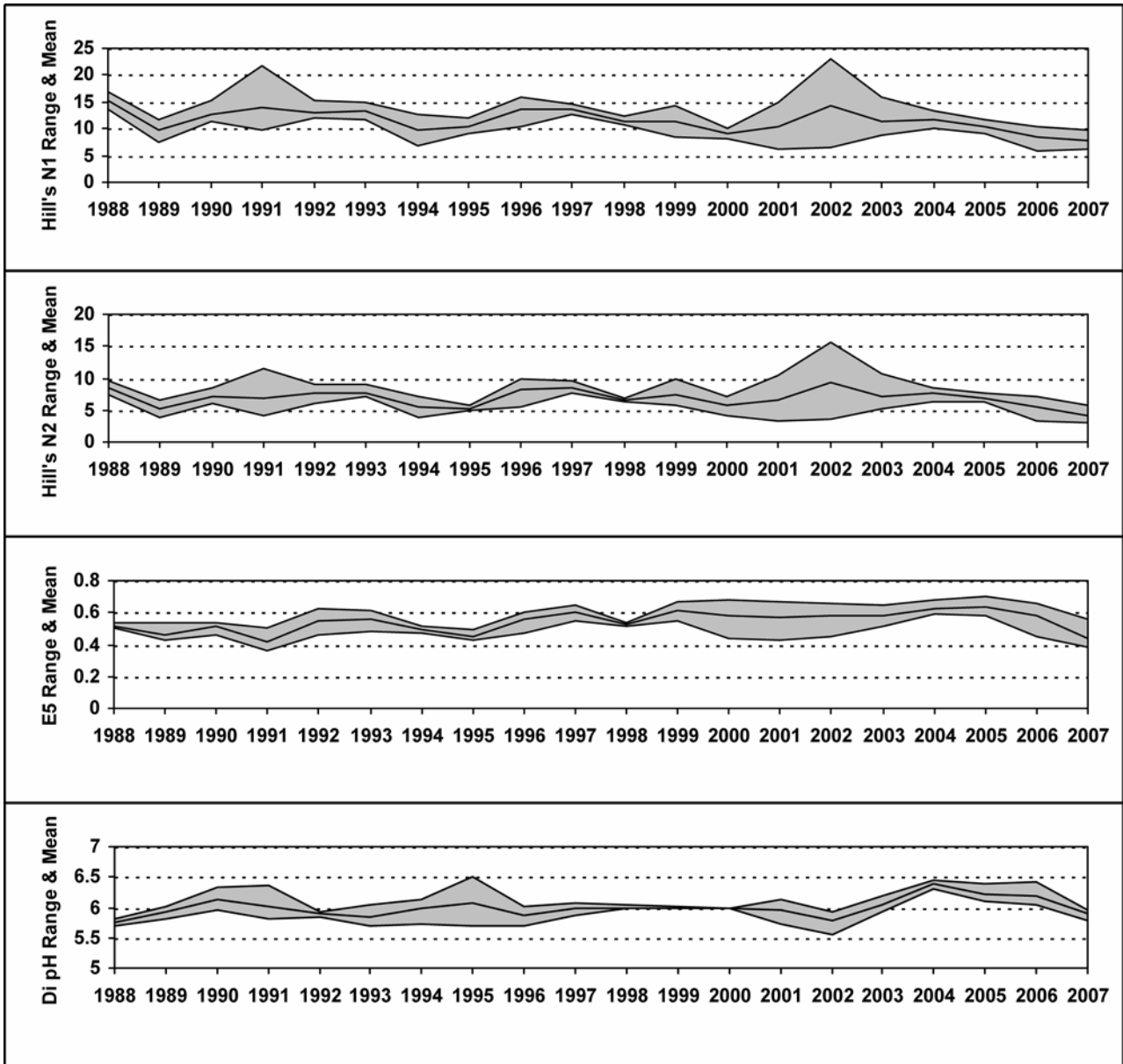
No fishing in 2007 due to funding cuts.

7.6.4 Epilithic diatom data

7.6.4.1 Percentage abundance summary, Loch Tinker

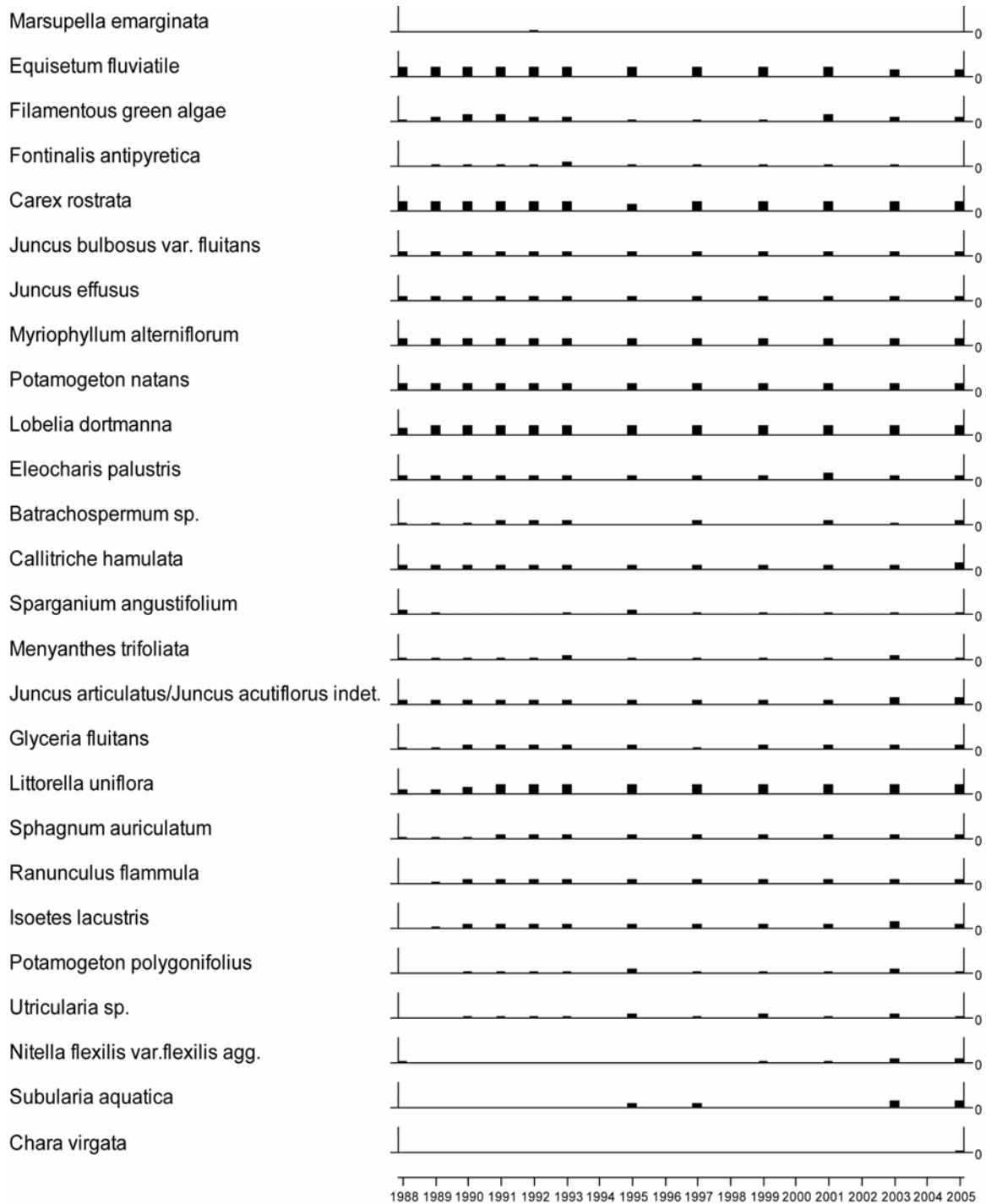


7.6.4.2 Summary statistics, Loch Tinker



7.6.5 Aquatic macrophyte data, Loch Tinker

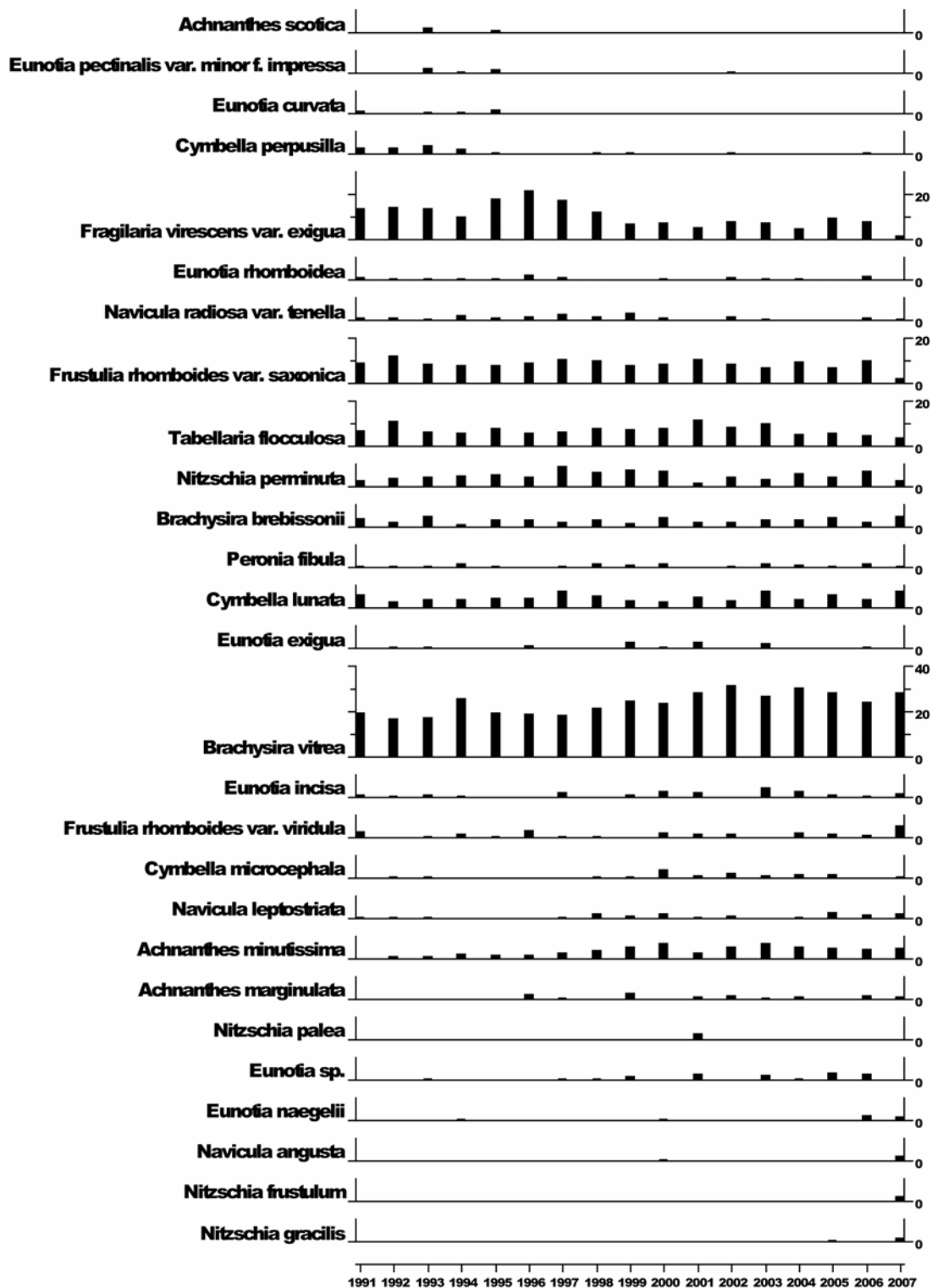
Species Scores (1-5)



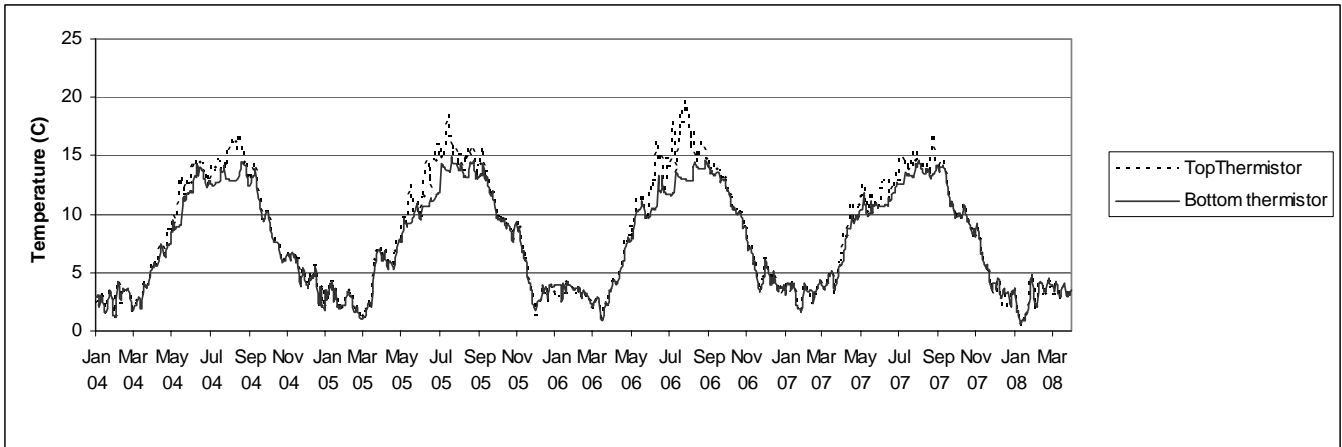
No survey in 2007 due to funding cuts

7.6.6 Sediment trap data, Loch Tinker

Relative percentage frequency of diatom taxa

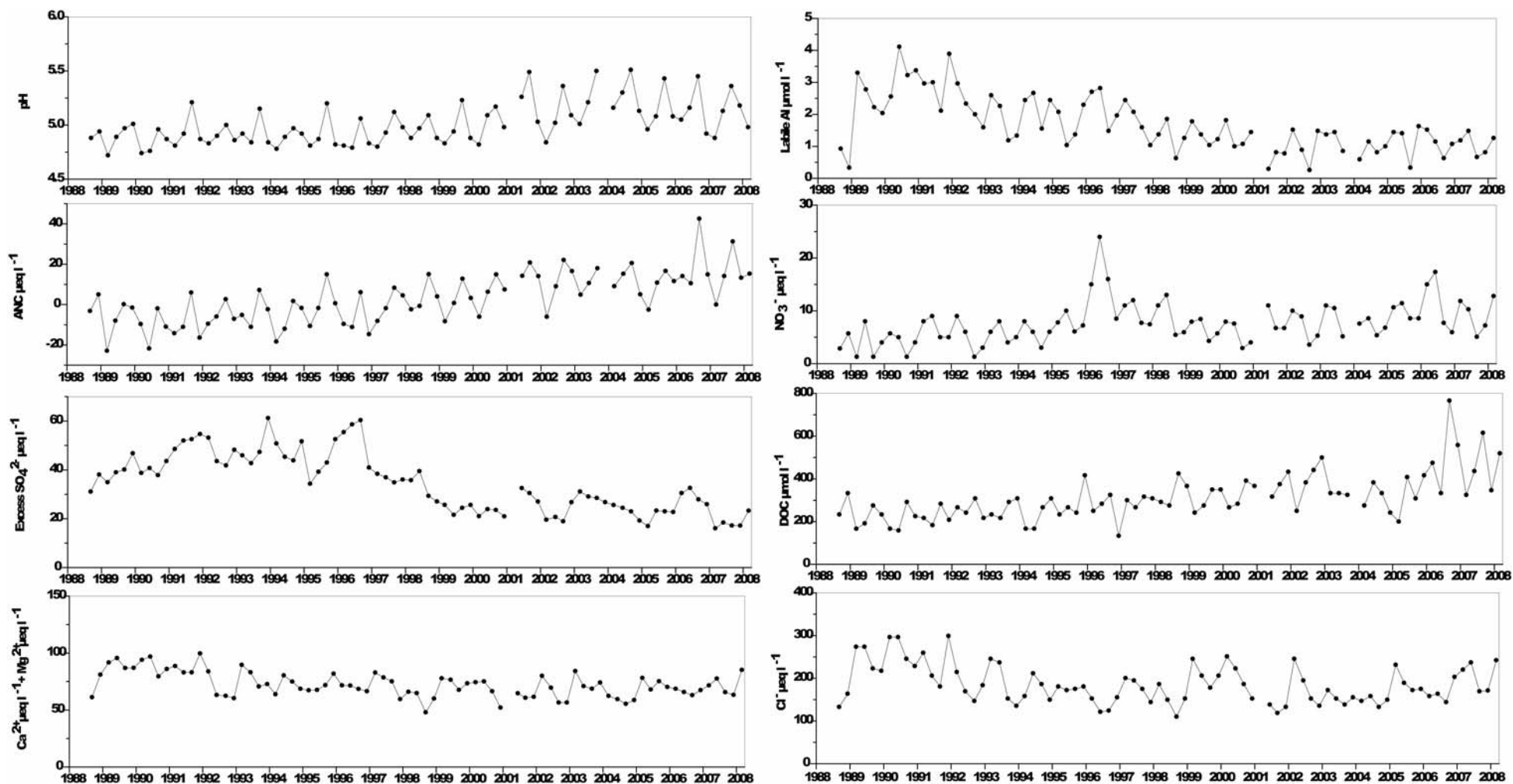


7.6.7 Thermistor data, Loch Tinker



7.7 Round Loch of Glenhead

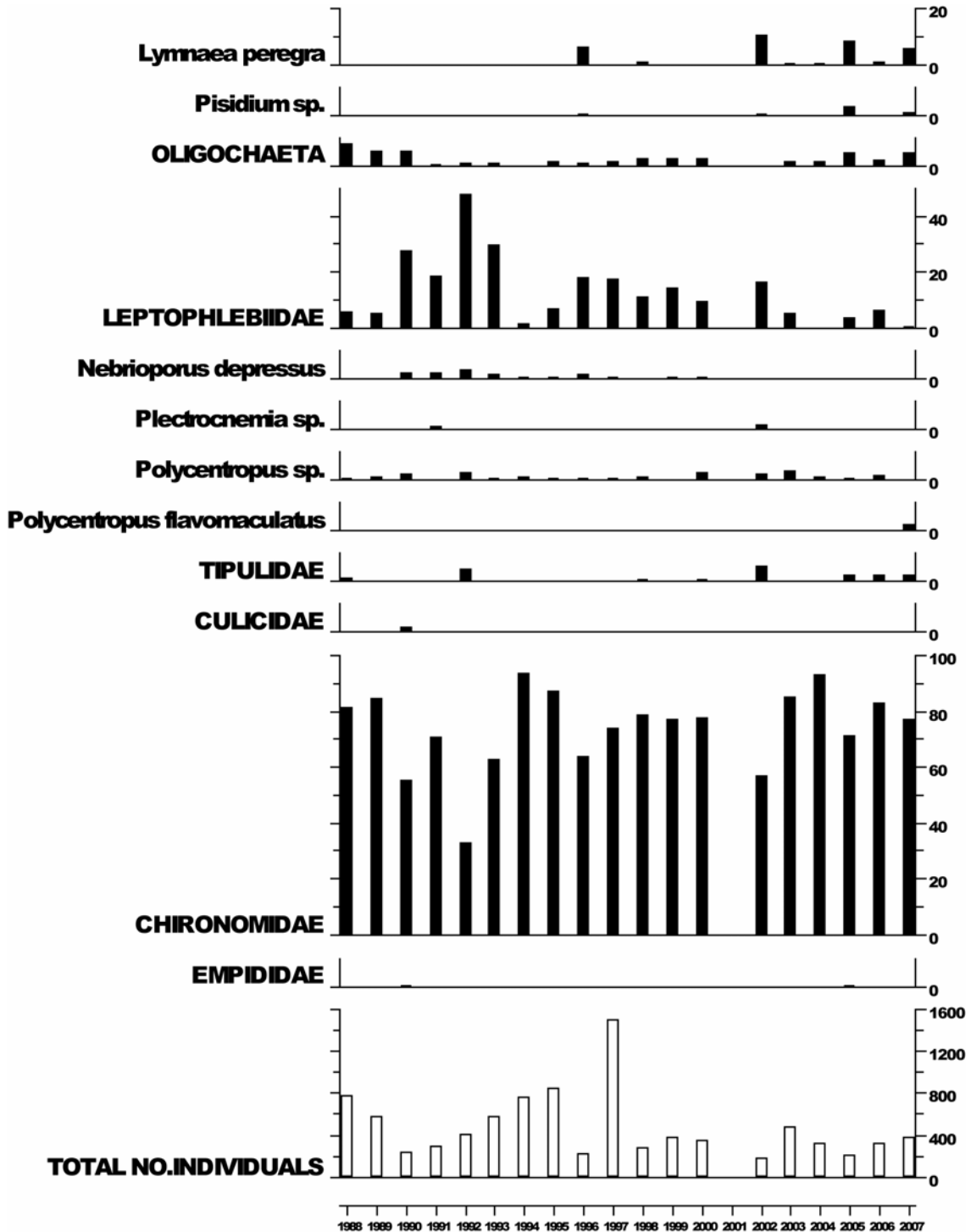
7.7.1 Spot sampled chemistry data



$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl ⁻	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	4.90	-7.13	34.92	48.55	193.80	9.00	26.32	3.65	2.54	223.60	68.42	44.94	4.81	233.30
07-08 mean	5.16	18.49	30.40	42.50	167.04	8.05	61.95	2.60	1.06	204.88	40.99	19.52	8.83	479.35
07-08 std.dev	0.16	8.55	3.10	7.38	27.58	3.24	68.13	0.47	0.38	40.05	6.76	2.99	3.39	114.94

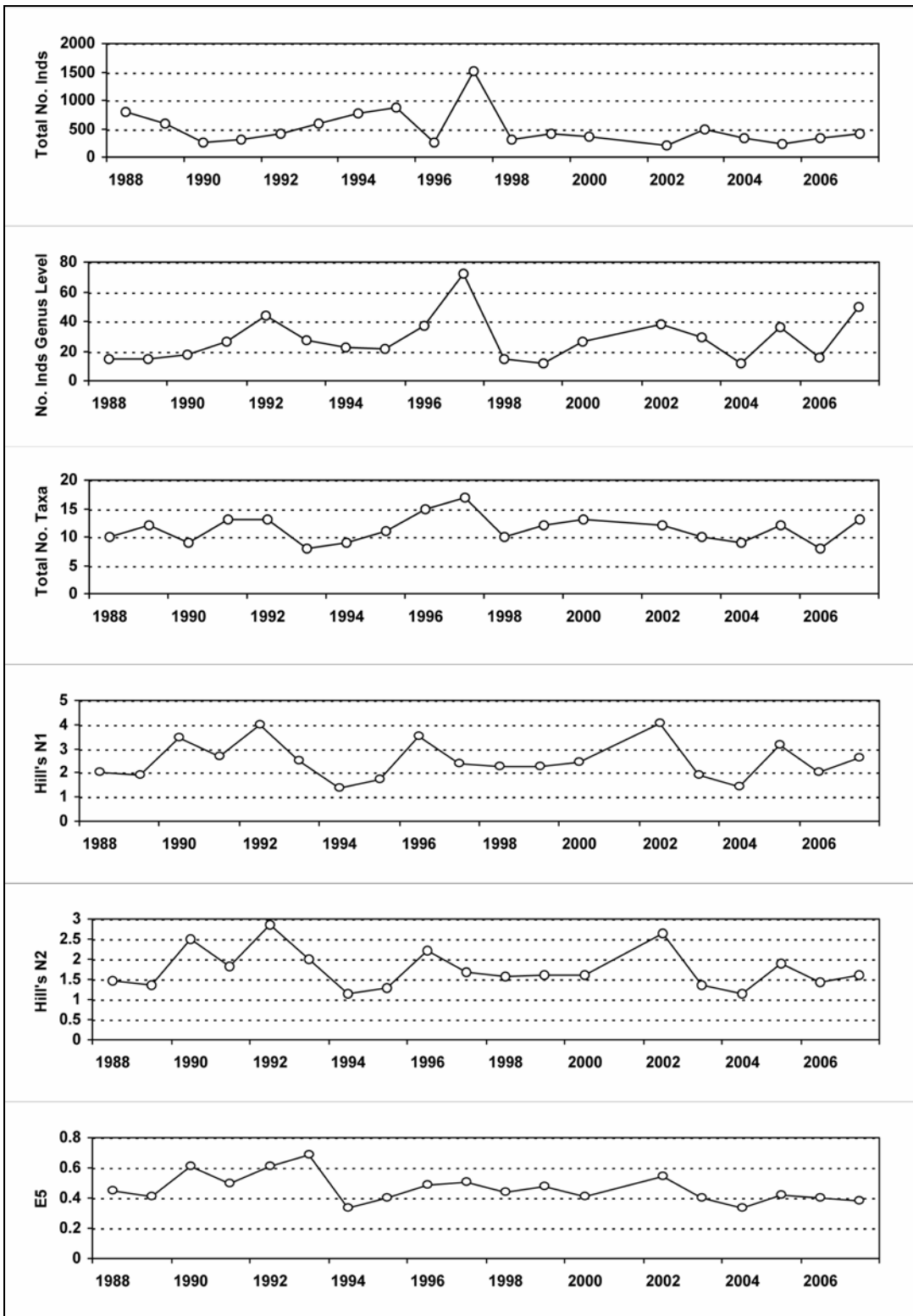
7.7.2 Macroinvertebrate data

7.7.2.1 Percentage abundance summary, Round Loch of Glenhead



No sampling in 2001 due to Foot and Mouth restrictions.

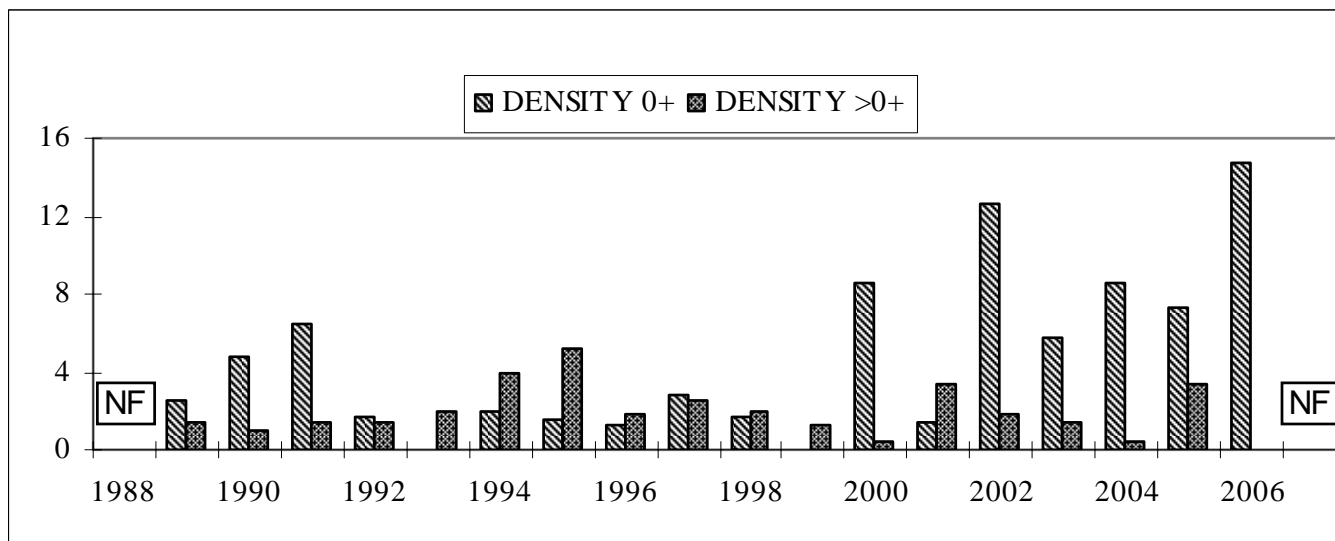
7.7.2.2 Summary statistics, Round Loch of Glenhead



No sampling in 2001 due to Foot and Mouth restrictions.

7.7.3 Fish data (for outflow stream)

7.7.3.1 Summary of mean Trout density (numbers 100m⁻²), Round Loch of Glenhead

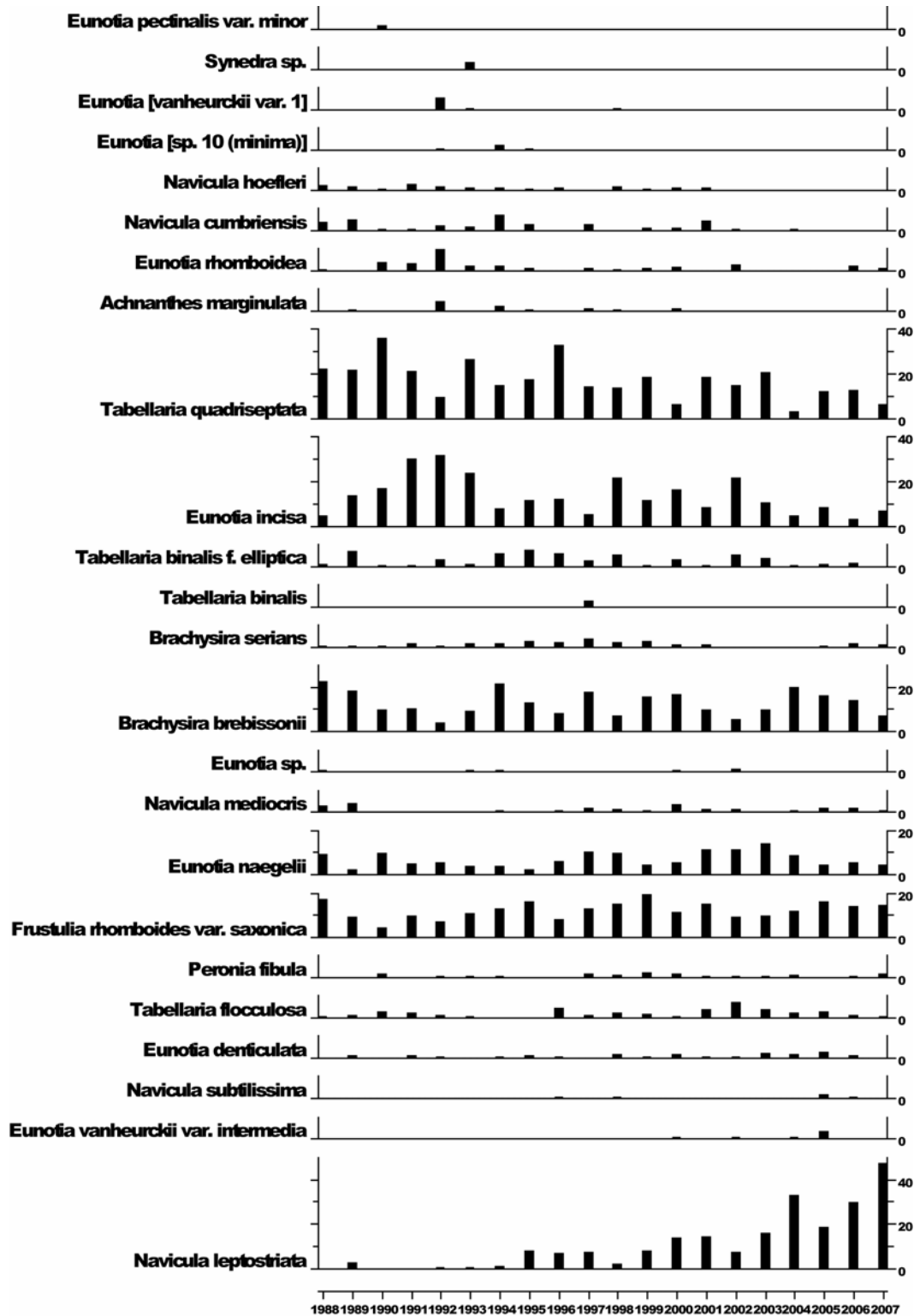


NF = Not fished

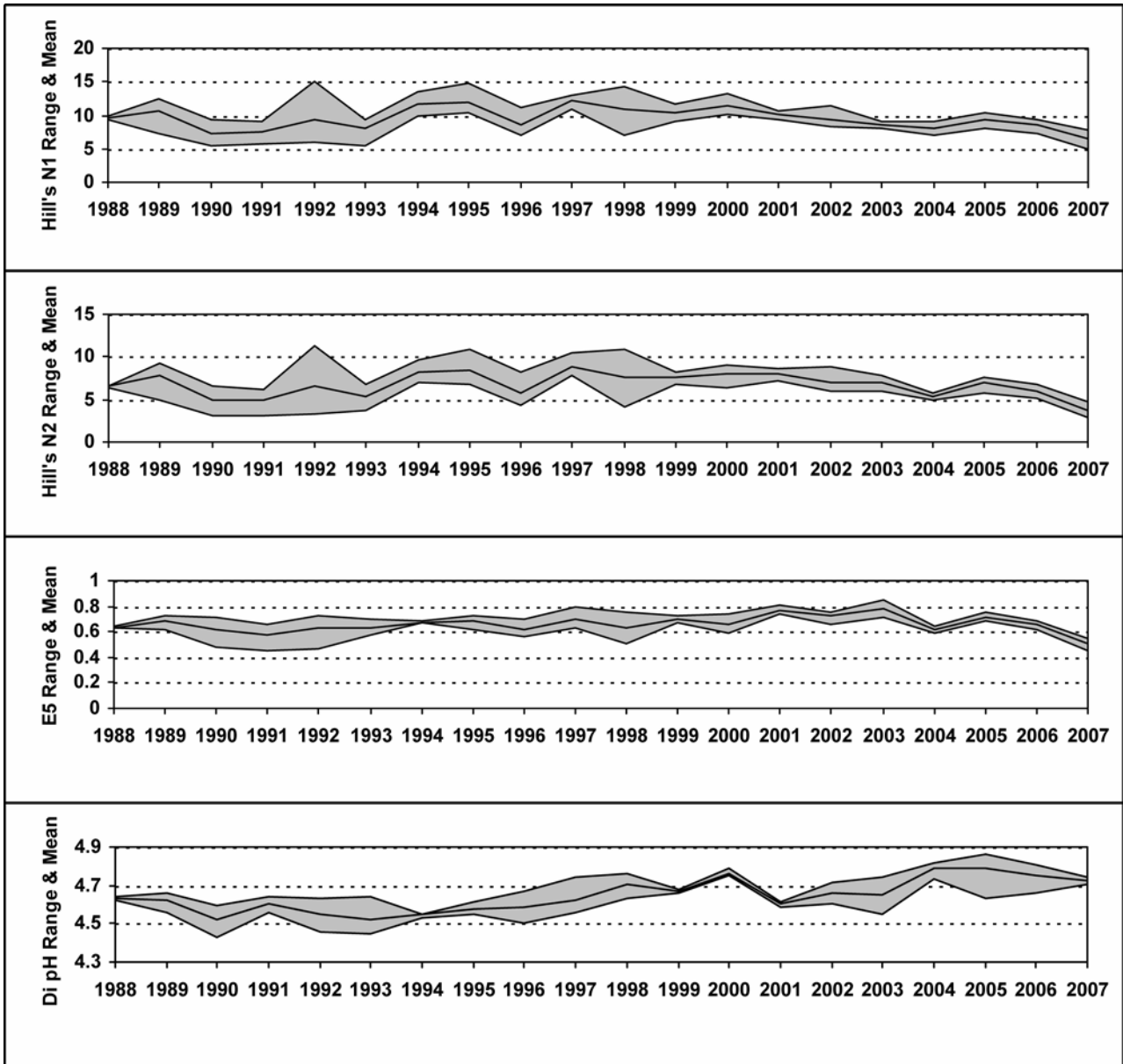
No fishing in 2007 due to funding cuts.

7.7.4 Epilithic diatom data

7.7.4.1 Percentage abundance summary, Round Loch of Glenhead

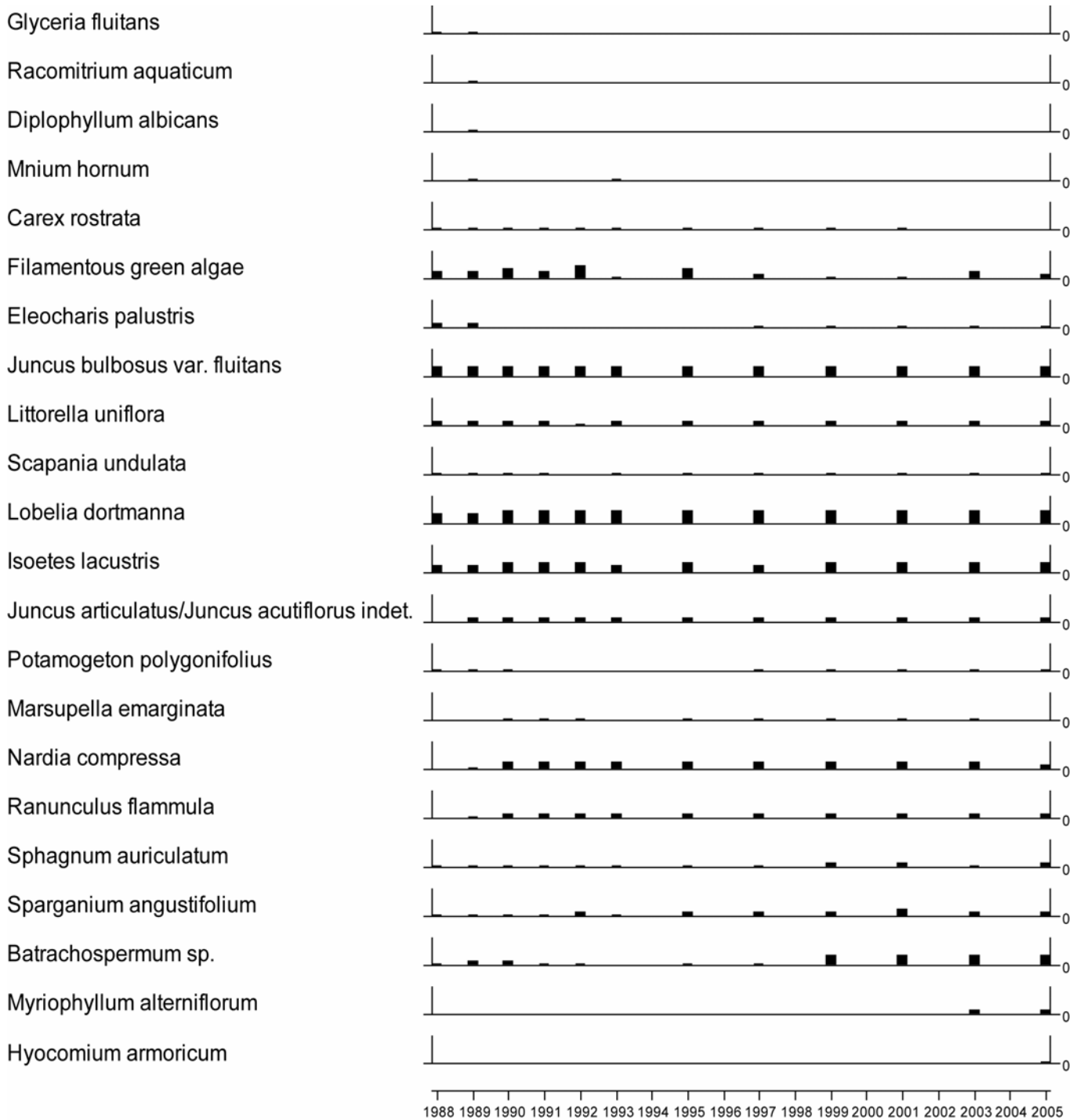


7.7.4.2 Summary statistics, Round Loch of Glenhead



7.7.5 Aquatic macrophyte data, Round Loch of Glenhead

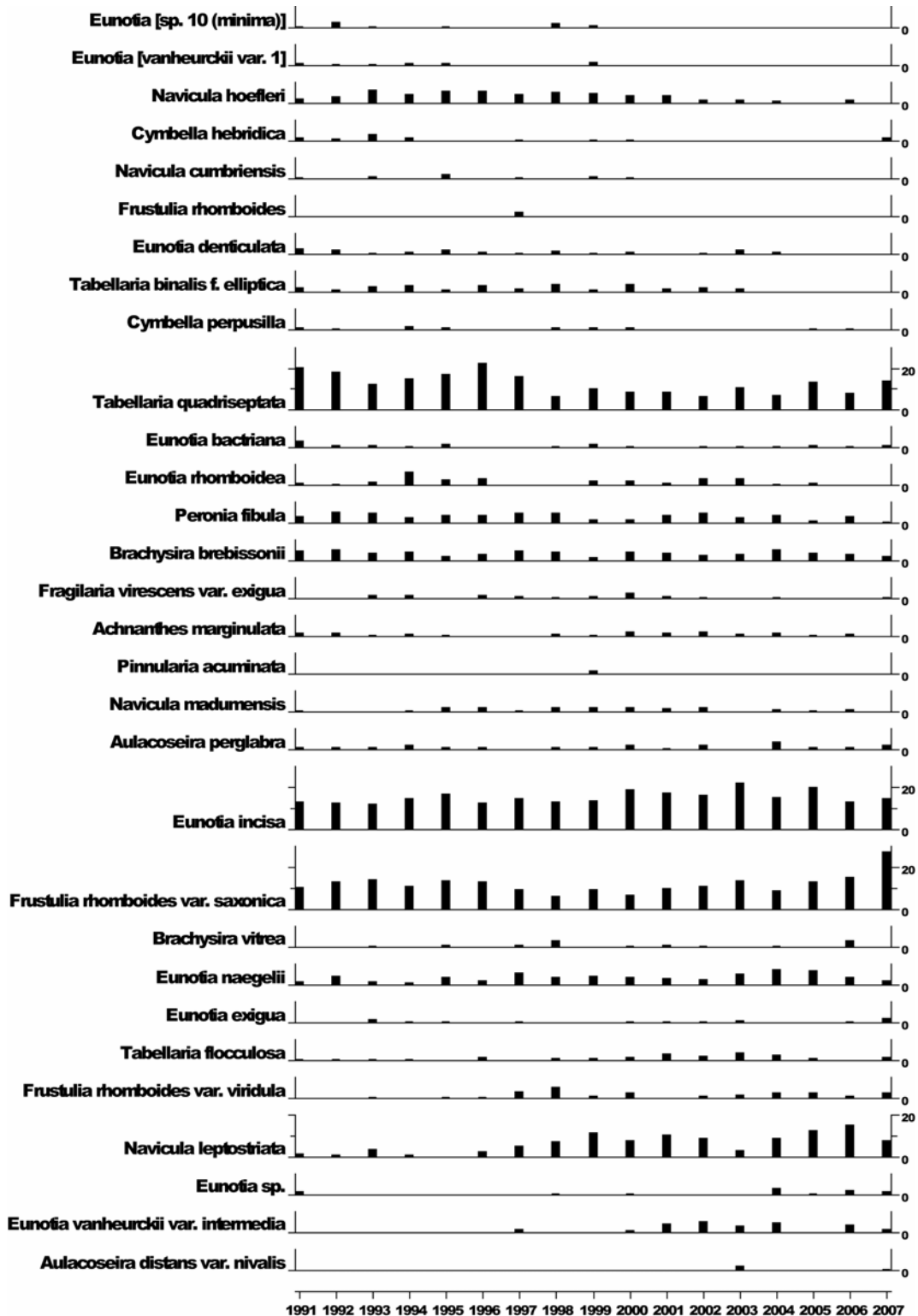
Species Scores (1-5)



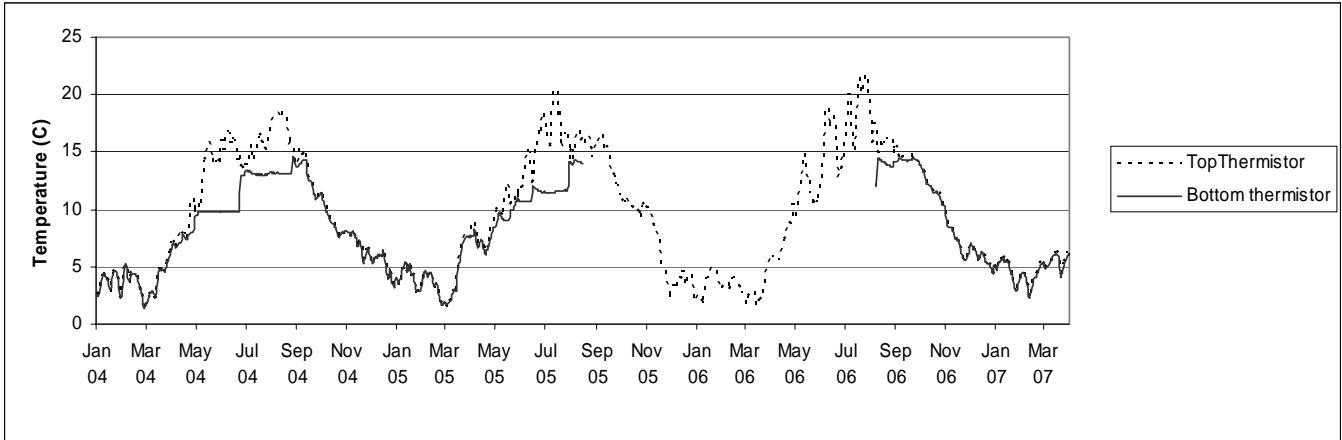
No survey in 2007 due to funding cuts

7.7.6 Sediment trap data, Round Loch of Glenhead

Relative percentage frequency of diatom taxa

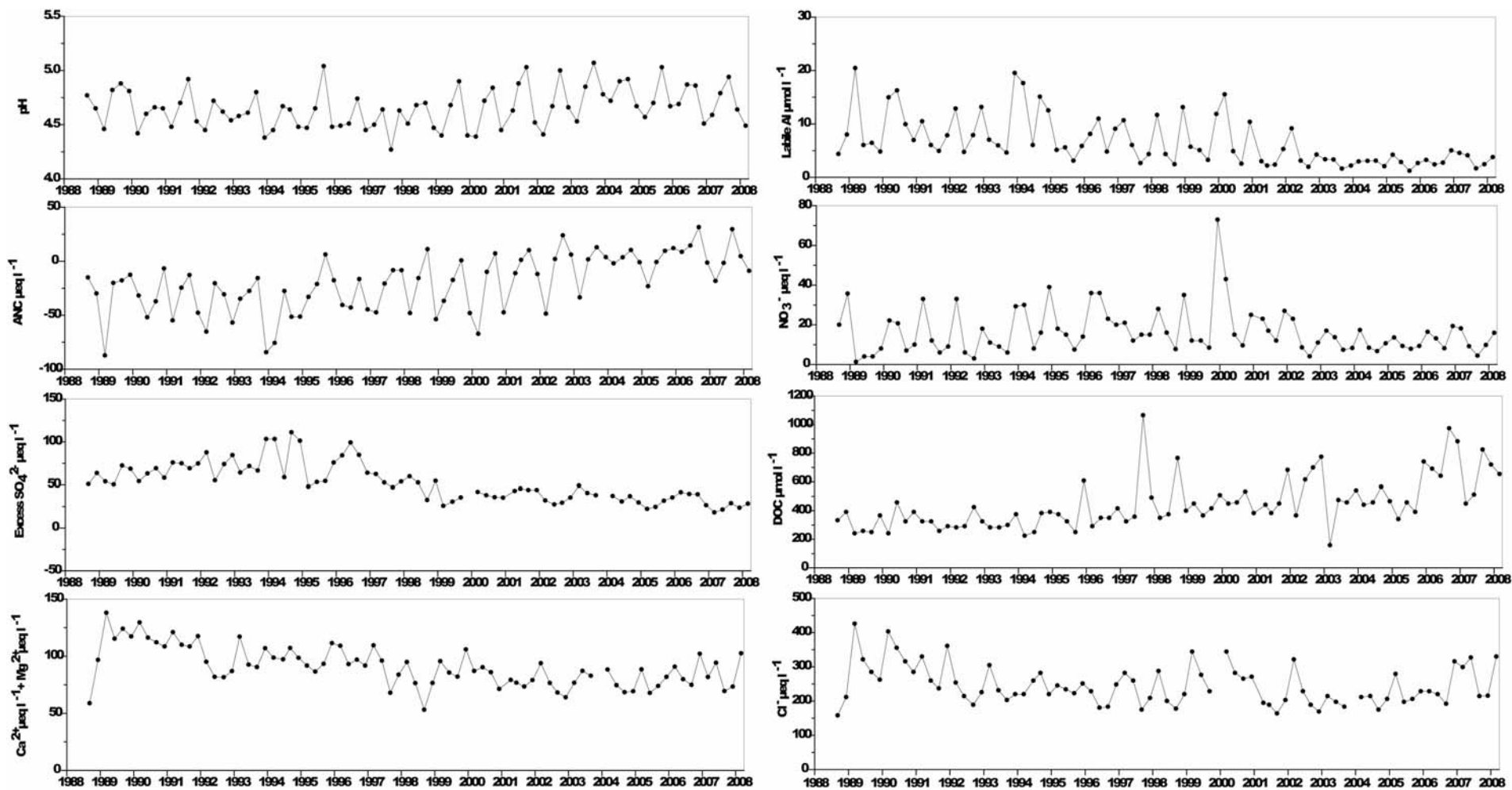


7.7.7 Thermistor data, Round Loch of Glenhead



7.8 Loch Grannoch

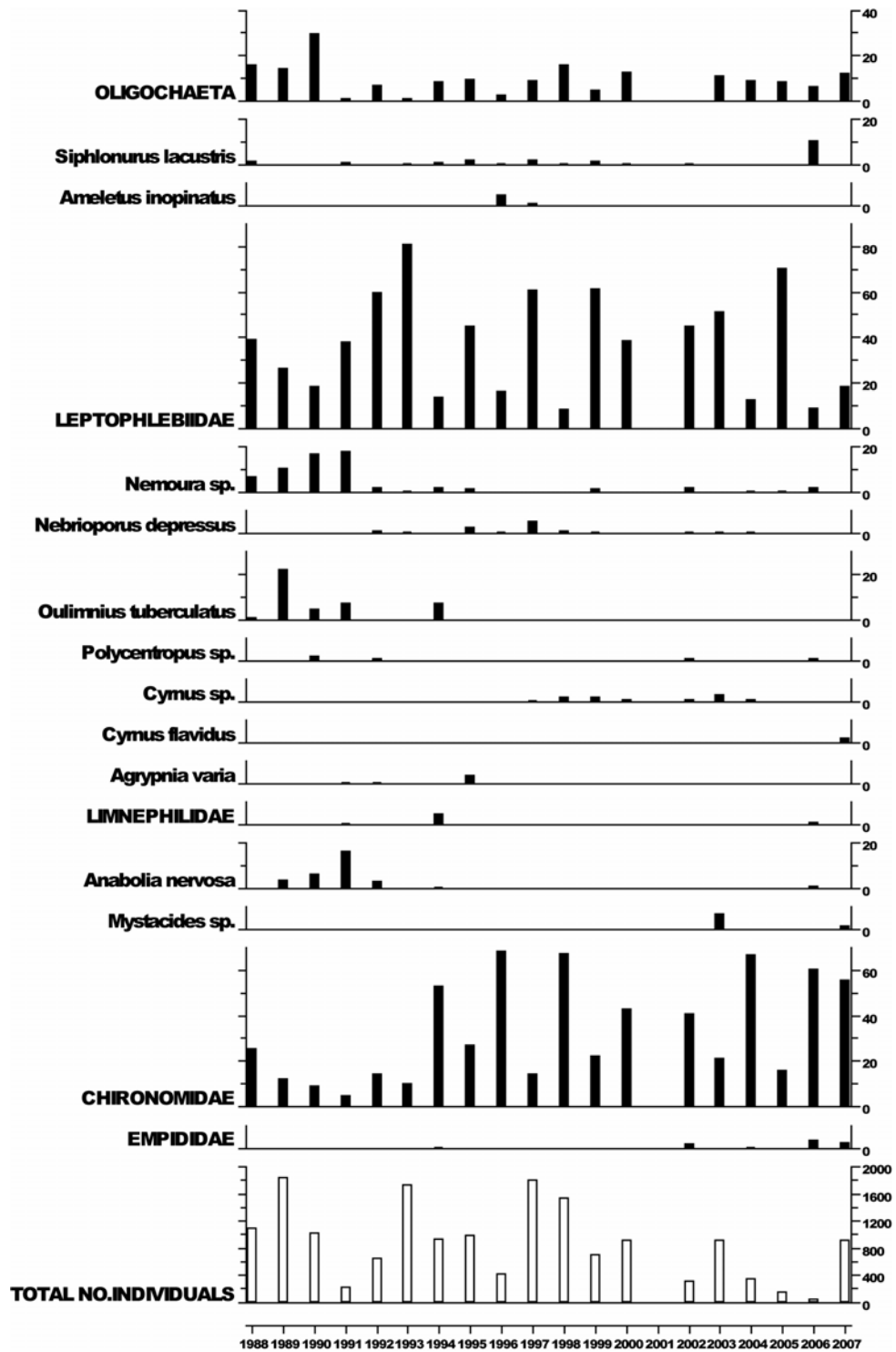
7.8.1 Spot sampled chemistry data



$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	4.65	-34.68	51.47	56.54	239.10	4.73	59.02	11.72	9.12	283.80	98.14	68.34	13.89	319.30
07-08 mean	4.72	5.88	36.08	48.81	220.65	7.30	106.37	6.00	3.00	271.80	54.67	26.18	9.81	677.71
07-08 std.dev	0.19	16.76	5.67	10.45	39.42	3.10	62.12	0.81	1.14	65.65	7.11	3.73	4.72	131.09

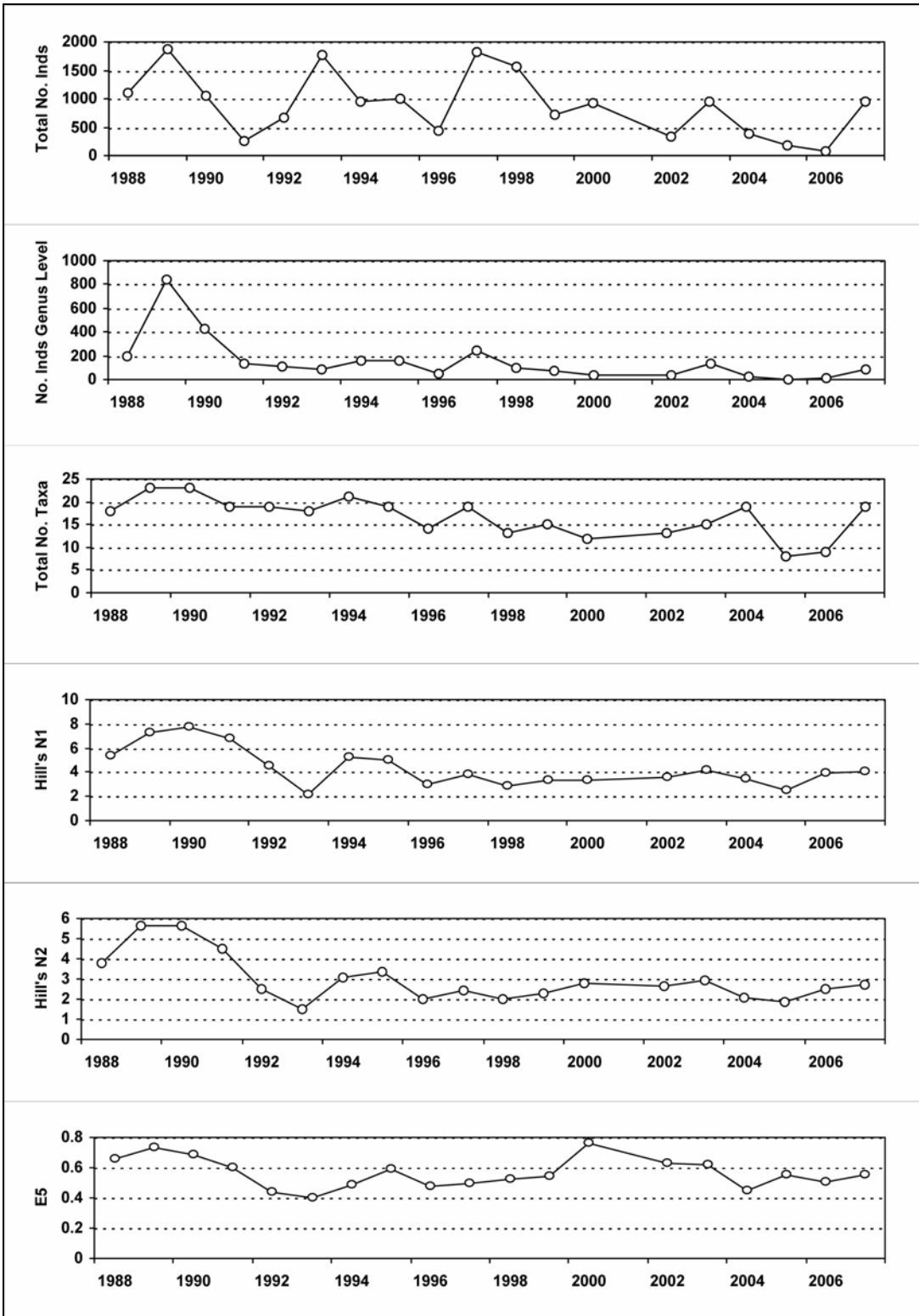
7.8.2 Macroinvertebrate data

7.8.2.1 Percentage abundance summary, Loch Grannoch



No sampling in 2001 due to Foot and Mouth restrictions.

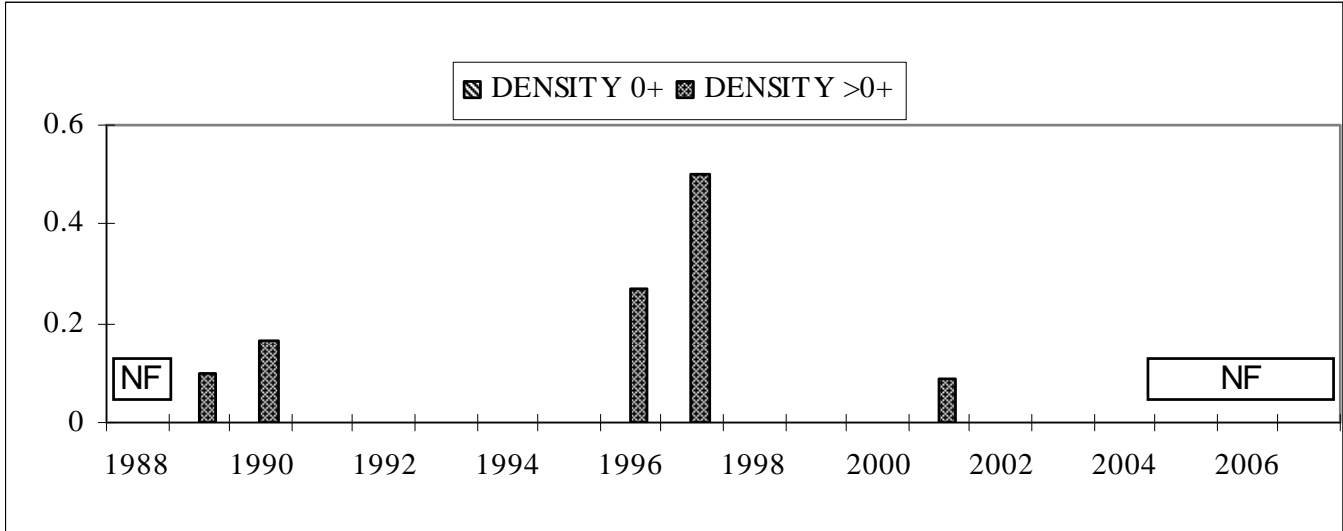
7.8.2.2 Summary statistics, Loch Grannoch



No sampling in 2001 due to Foot and Mouth restrictions.

7.8.3 Fish data (for outflow stream)

7.8.3.1 Summary of mean Trout density (numbers 100m⁻²), Loch Grannoch

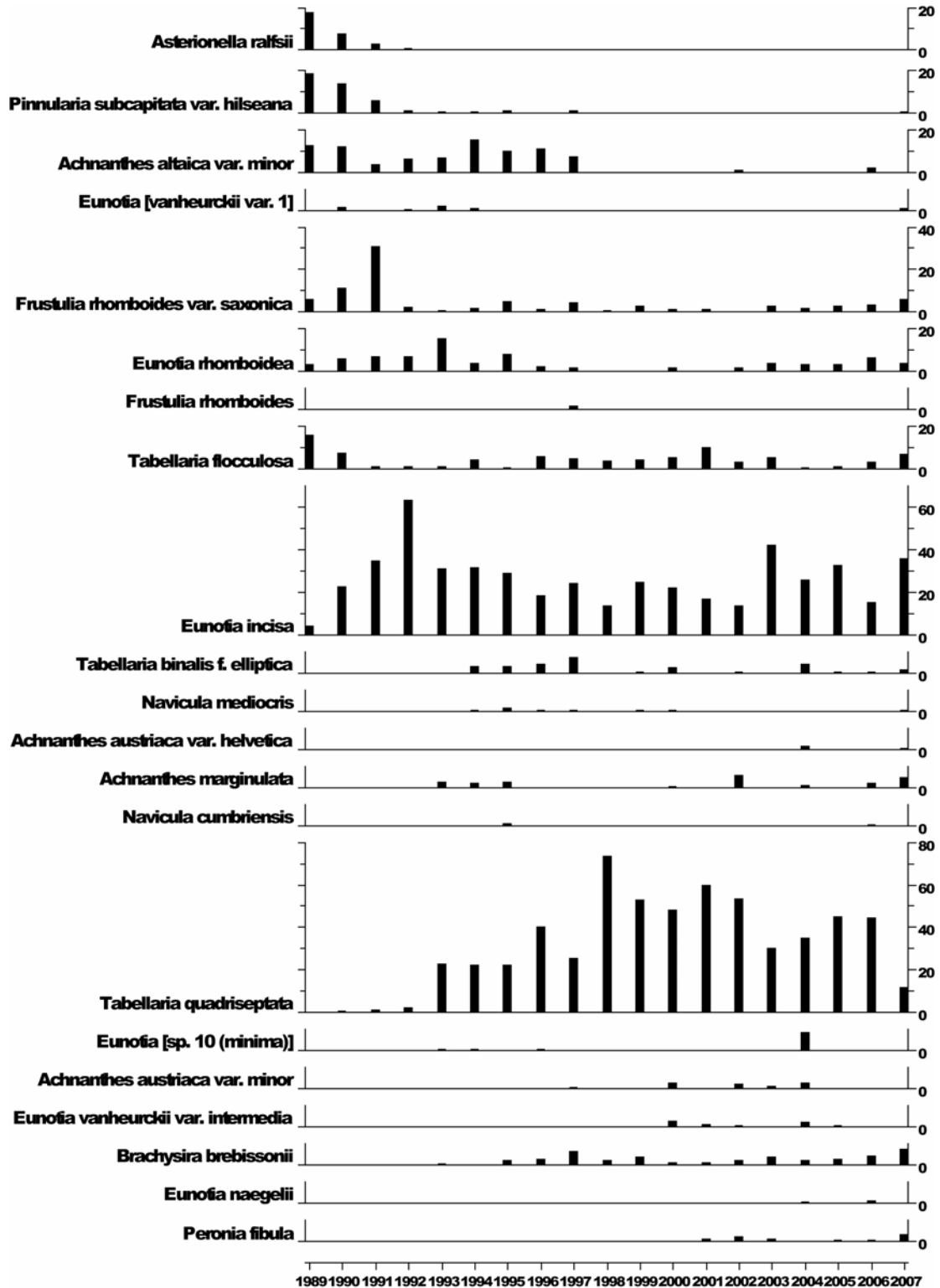


NF = Not fished

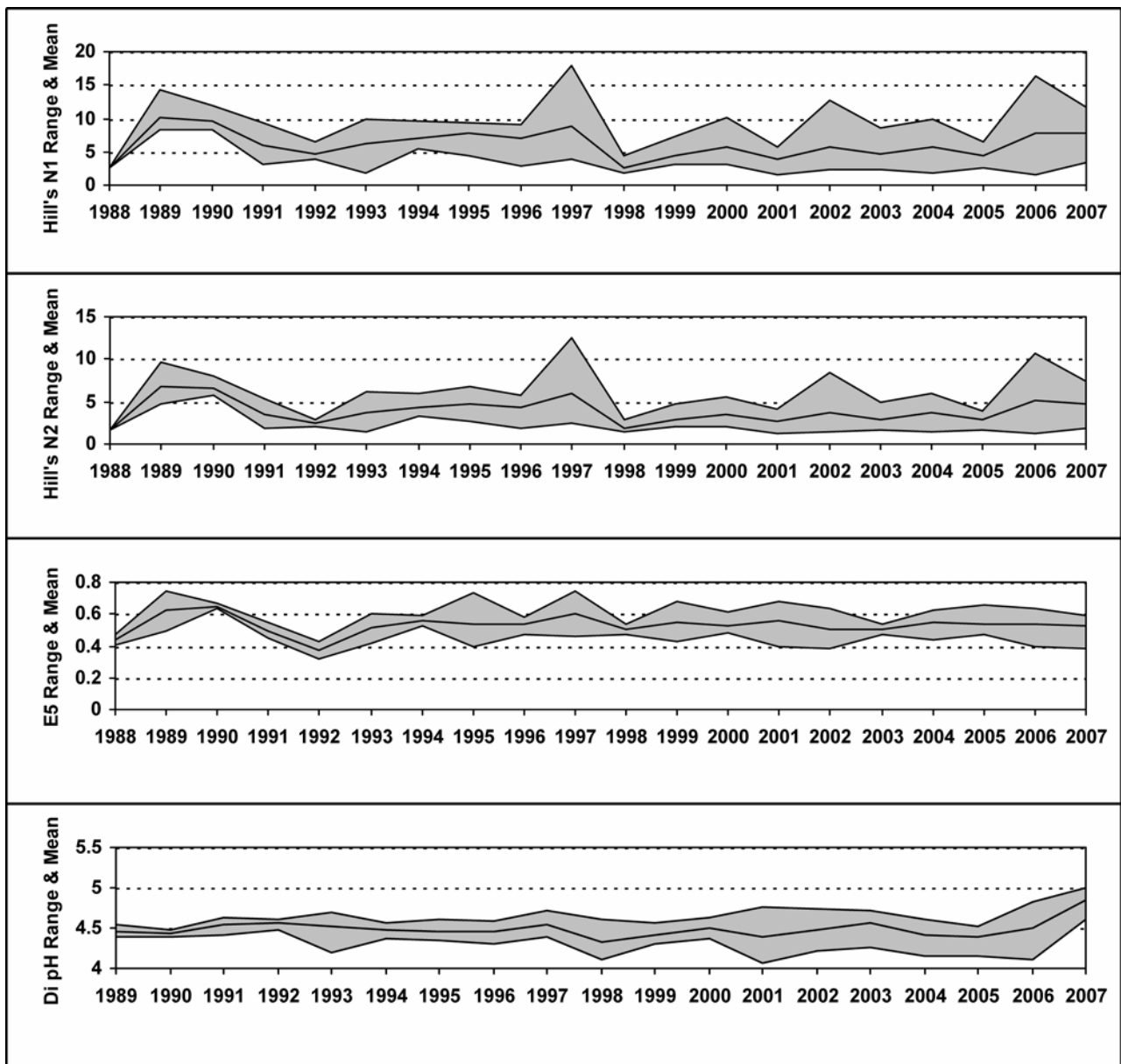
No fishing in 2007 due to funding cuts.

7.8.4 Epilithic diatom data

7.8.4.1 Percentage abundance summary, Loch Grannoch

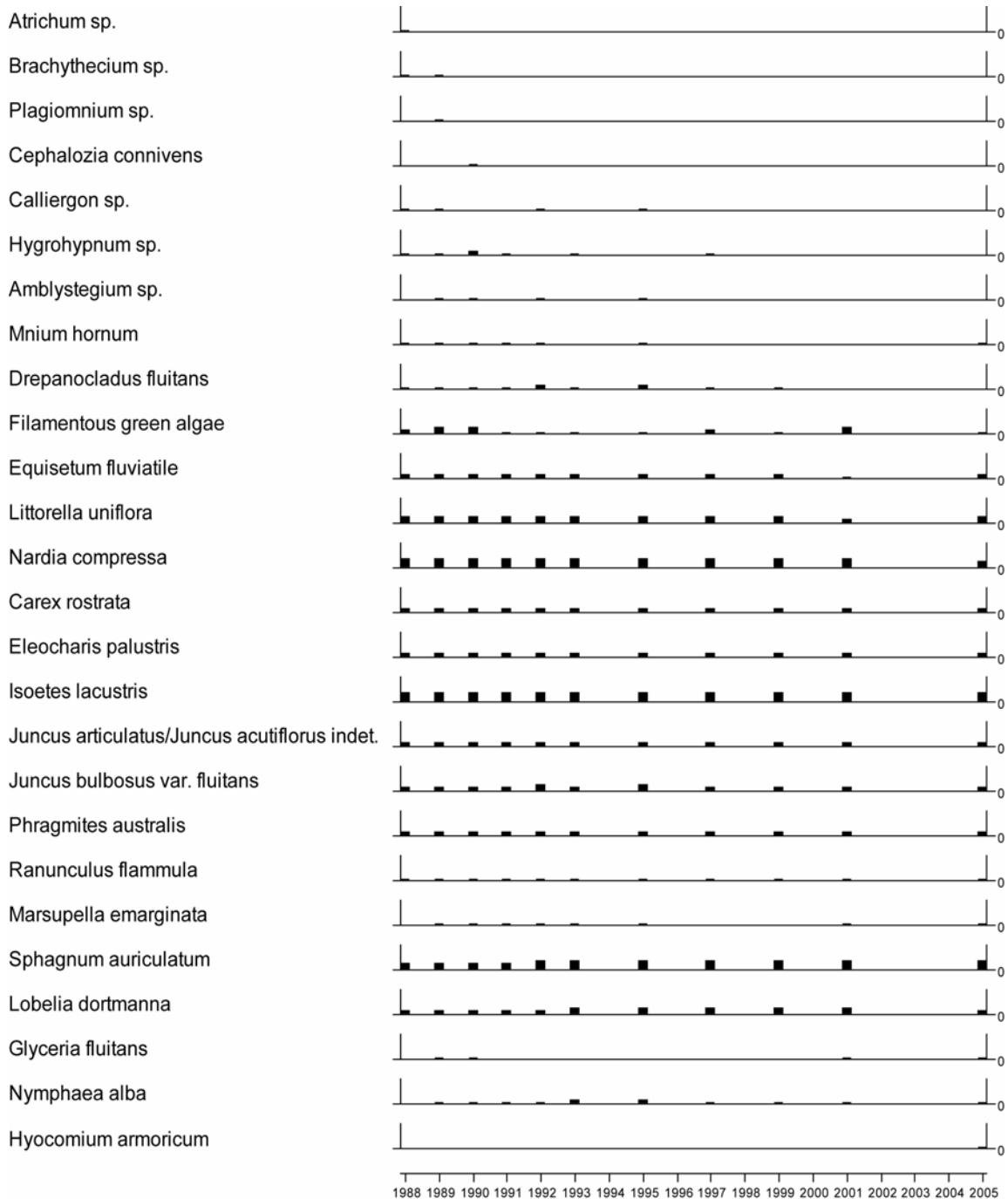


7.8.4.2 Summary statistics, Loch Grannoch



7.8.5 Aquatic macrophyte data, Loch Grannoch

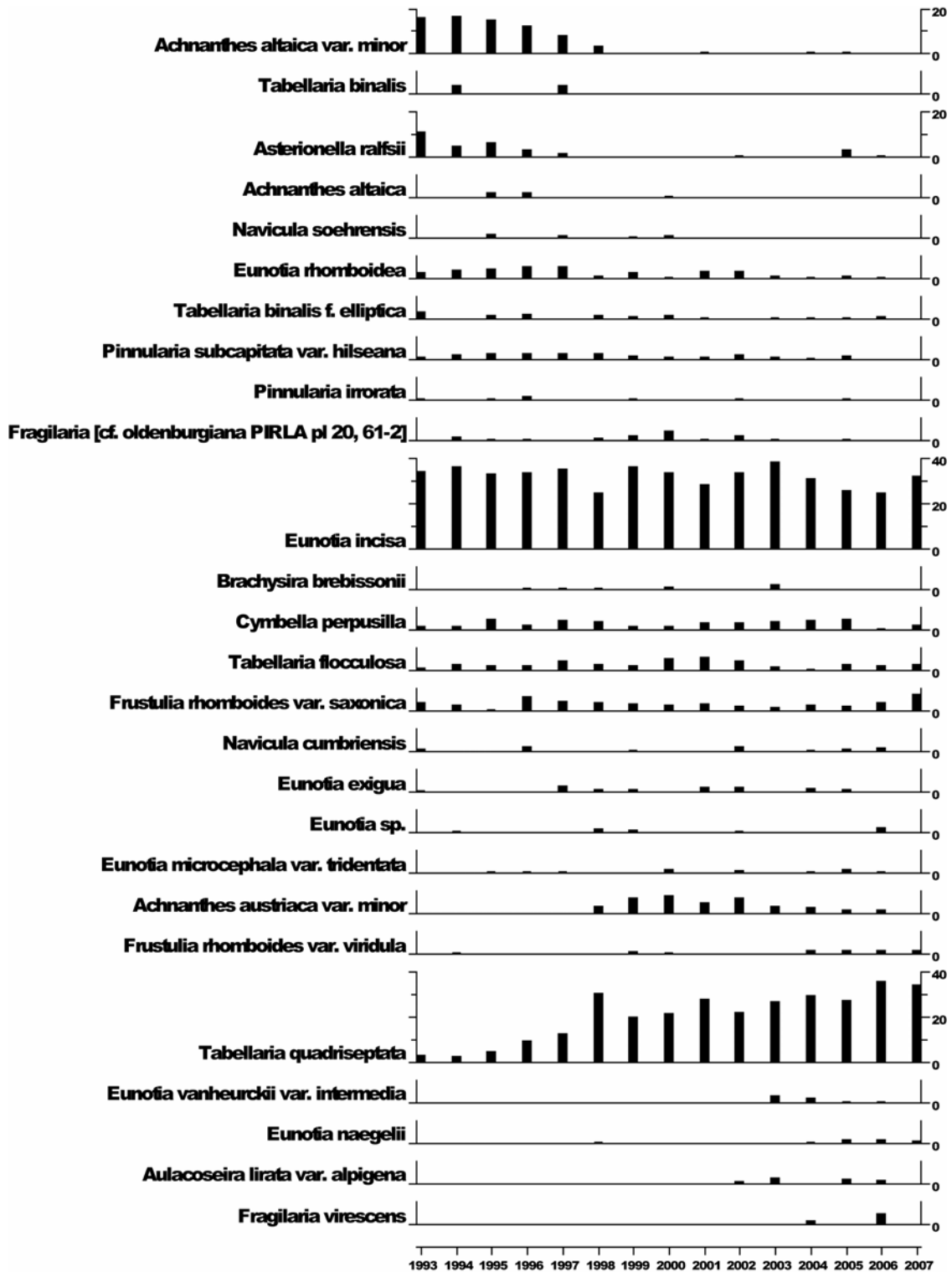
Species Scores (1-5)



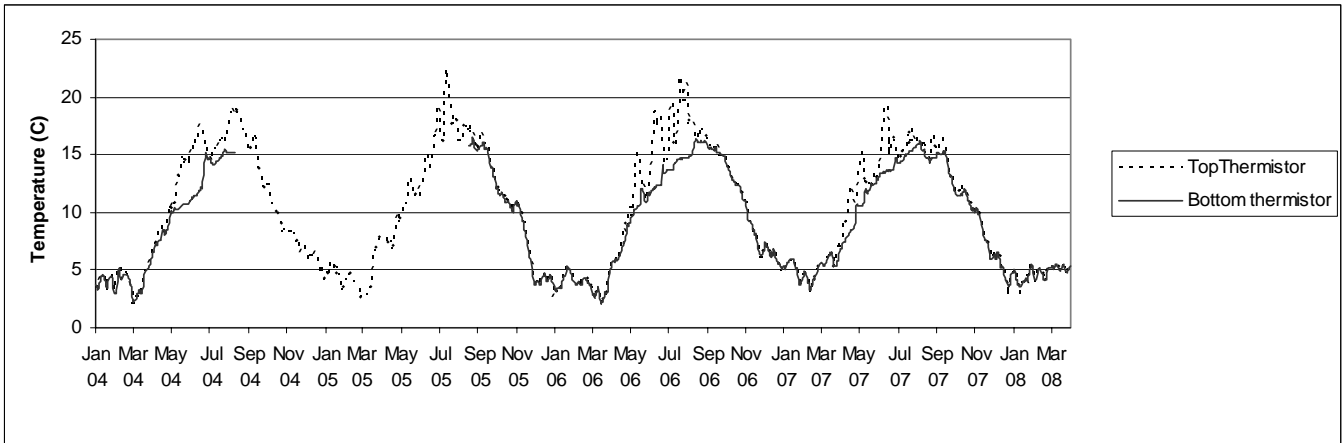
No aquatic macrophyte survey in 2003.
No survey in 2007 due to funding cuts

7.8.6 Sediment trap data, Loch Grannoch

Relative percentage frequency of diatom taxa

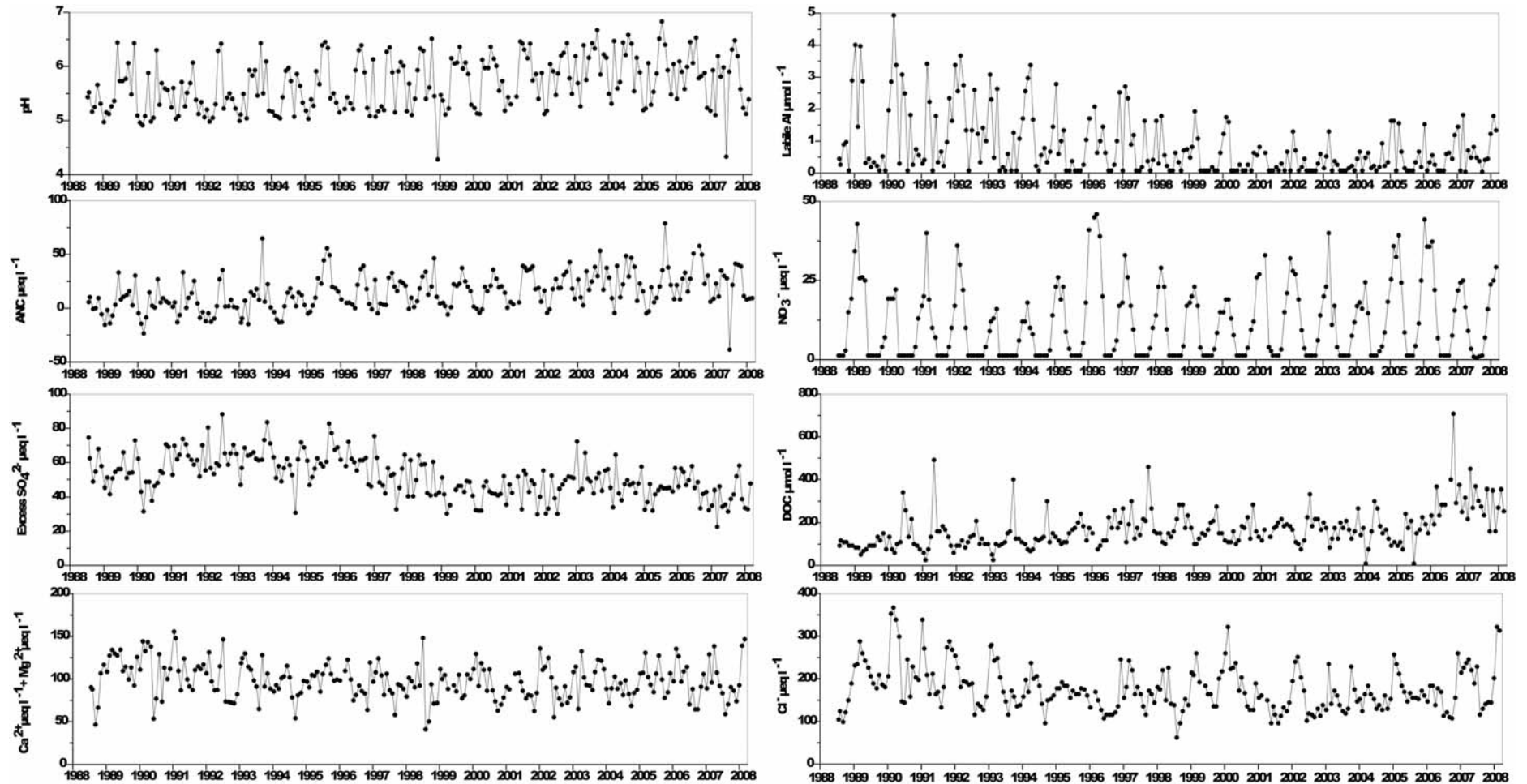


7.8.7 Thermistor data, Loch Grannoch



7.9 Dargall Lane

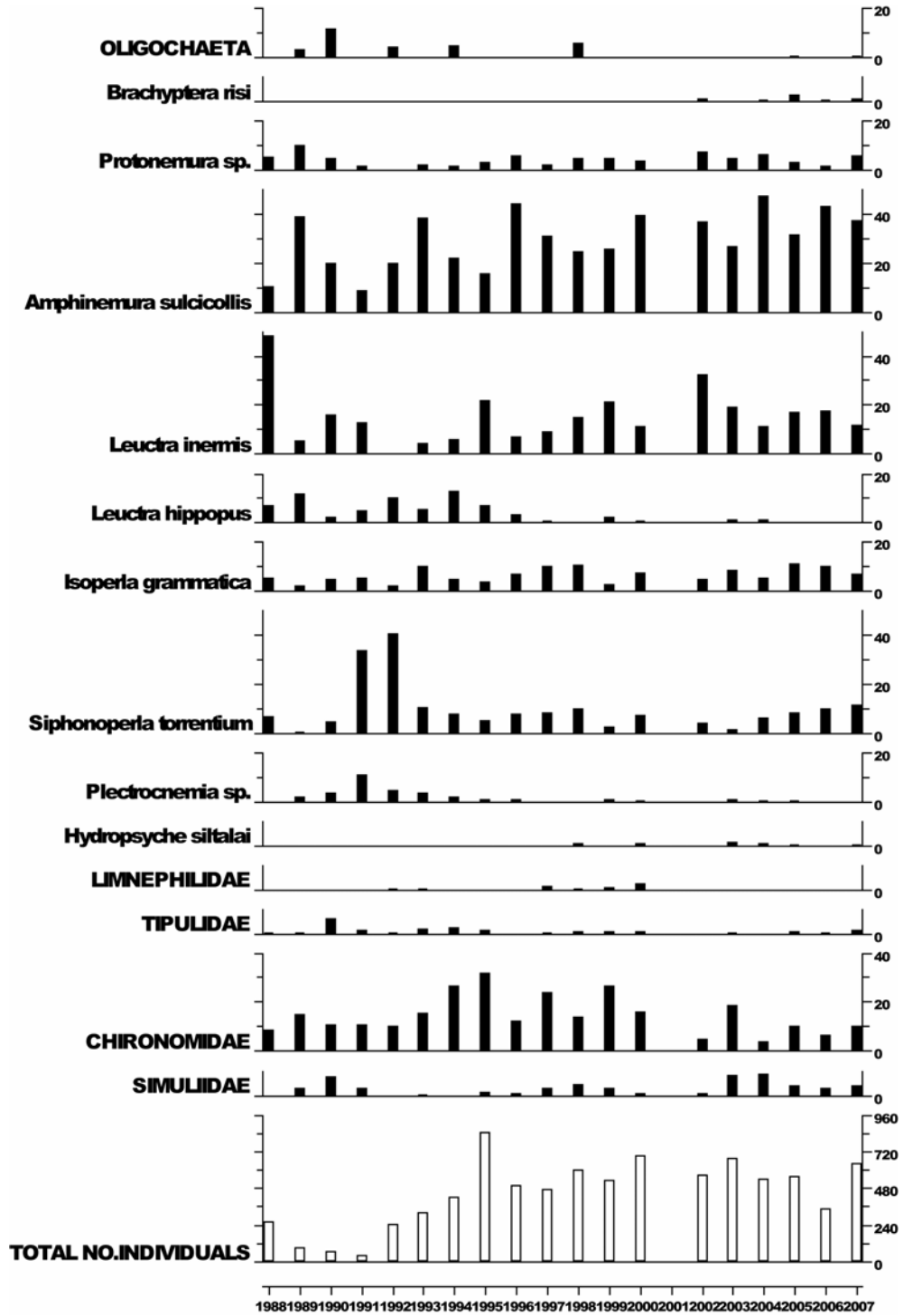
7.9.1 Spot sampled chemistry data



$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl ⁻	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	5.44	3.39	51.58	56.62	182.20	9.06	70.68	2.06	1.48	207.90	82.02	60.18	10.70	117.80
07-08 mean	5.71	19.44	46.58	51.55	164.95	7.56	126.71	1.28	0.68	199.52	62.85	41.94	11.12	278.91
07-08 std.dev	0.61	22.36	13.08	16.19	43.79	3.88	43.75	0.70	0.53	69.20	9.69	8.63	10.56	71.92

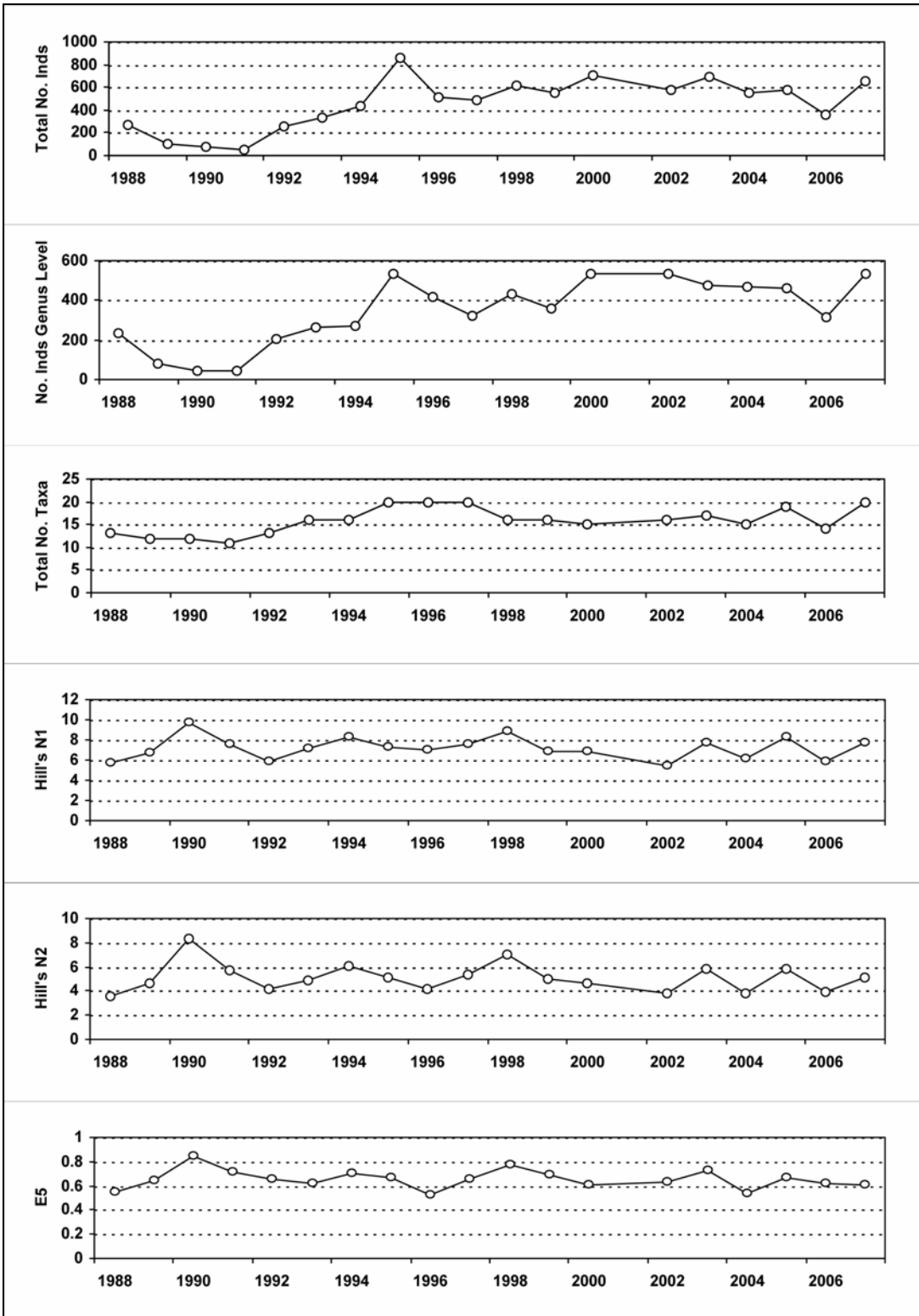
7.9.2 Macroinvertebrate data

7.9.2.1 Percentage abundance summary, Dargall Lane



No sampling in 2001 due to Foot and Mouth restrictions.

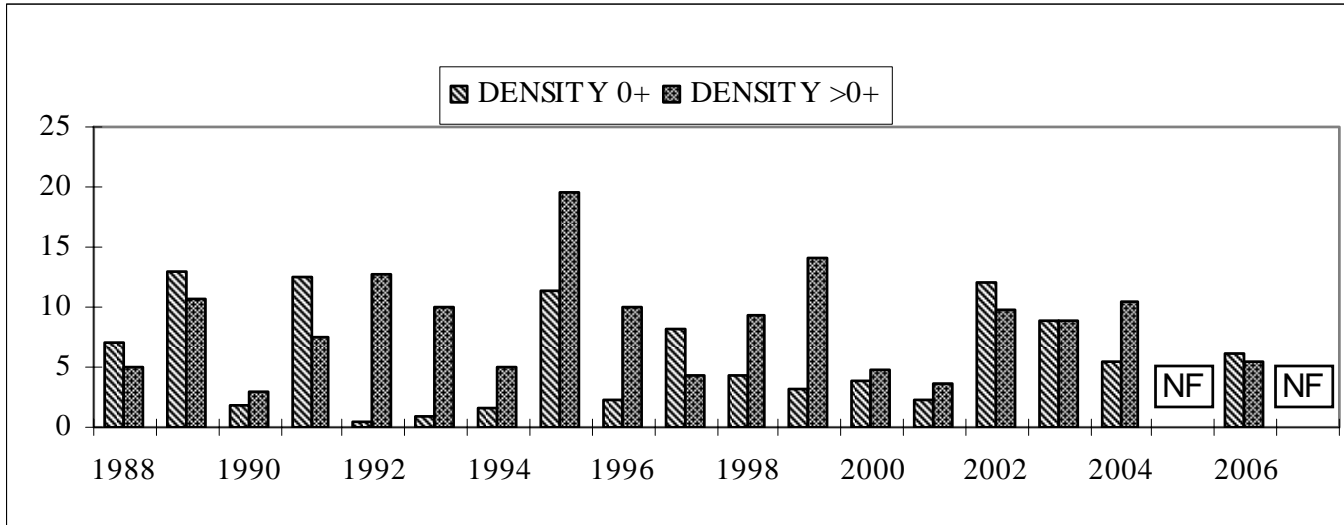
7.9.2.2 Summary statistics, Dargall Lane



No sampling in 2001 due to Foot and Mouth restrictions.

7.9.3 Fish data

7.9.3.1 Summary of mean Trout density (numbers 100m⁻²), Dargall Lane

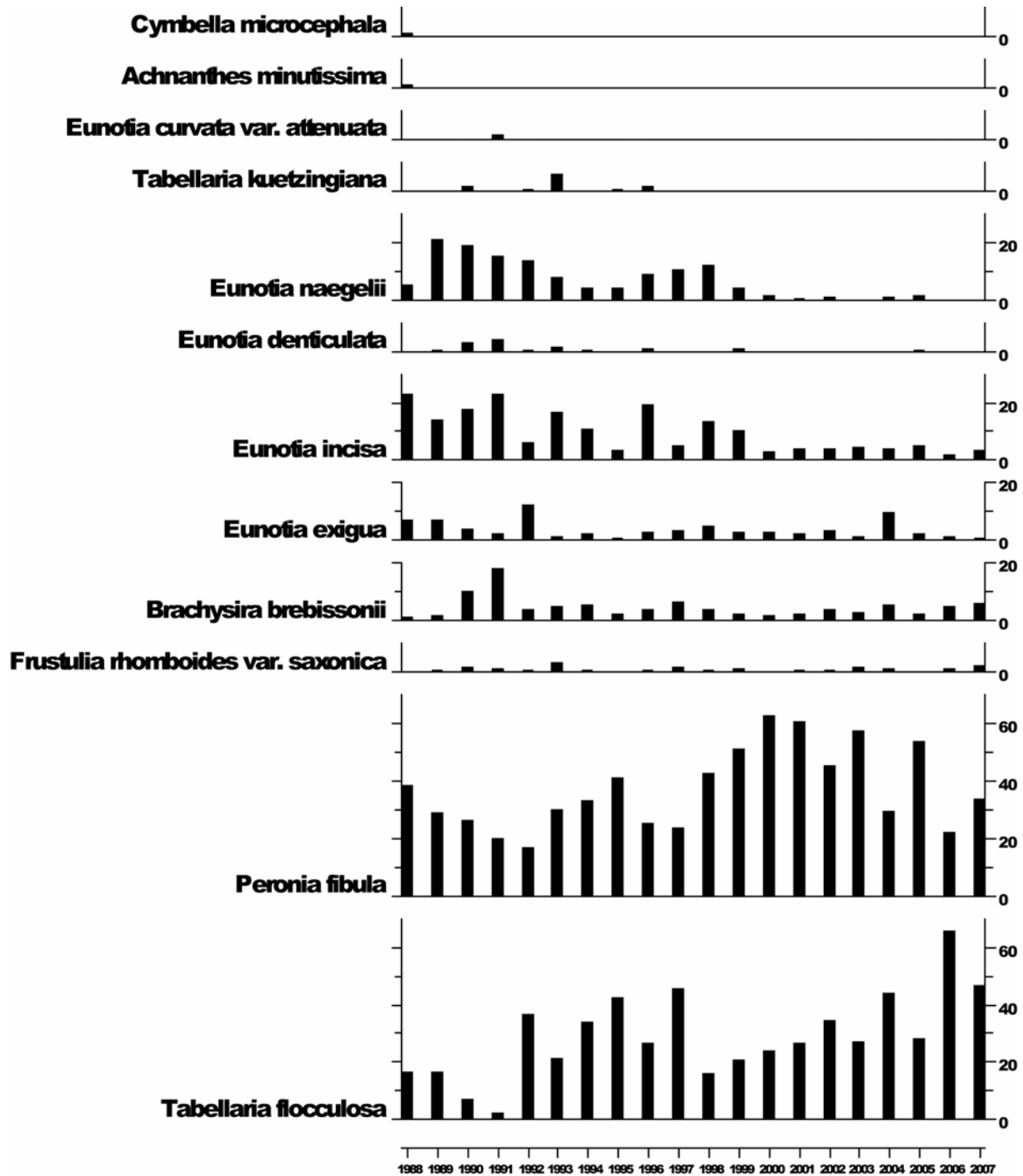


NF = Not fished

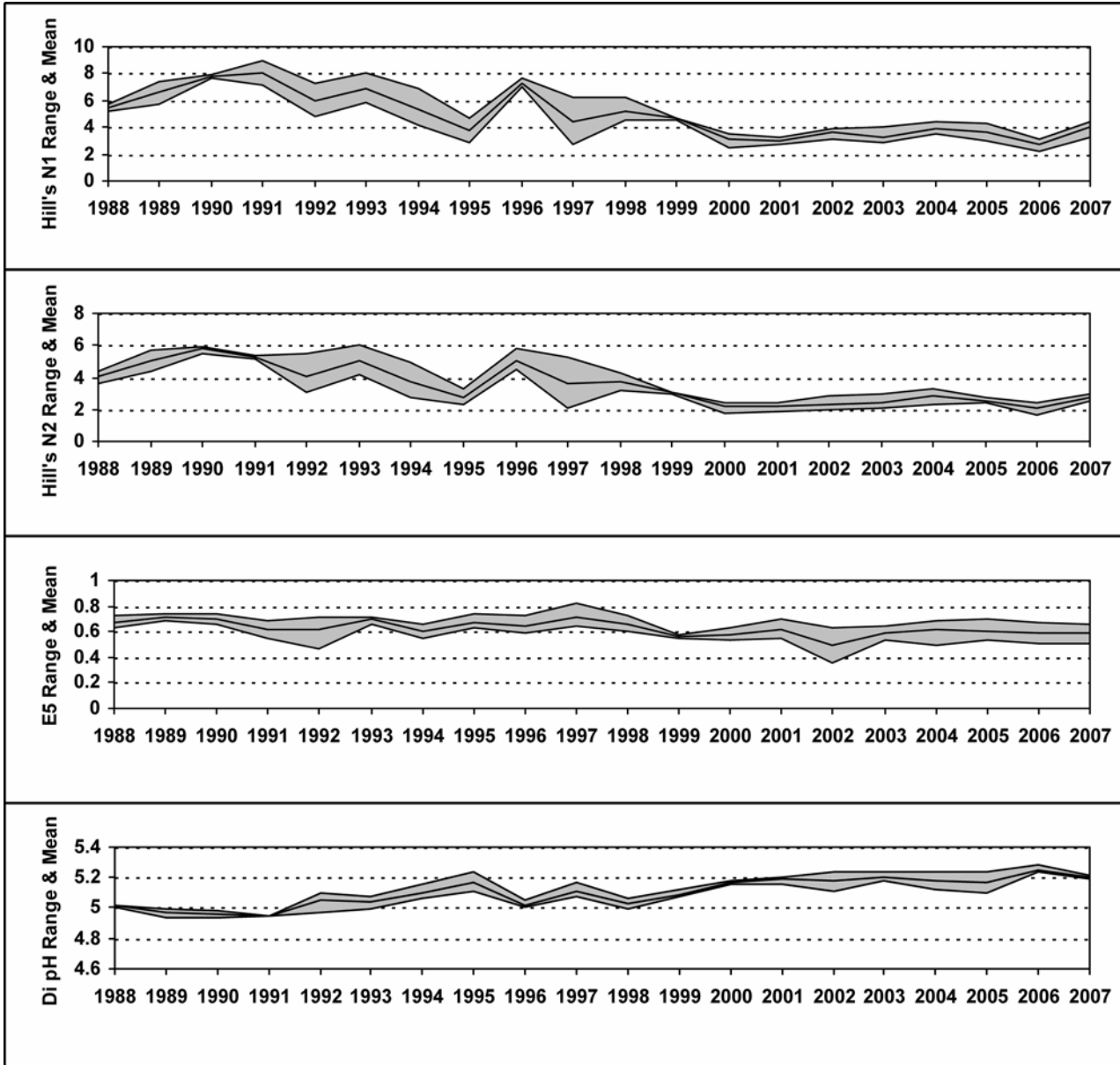
No fishing in 2007 due to funding cuts.

7.9.4 Epilithic diatom data

7.9.4.1 Percentage abundance summary, Dargall Lane

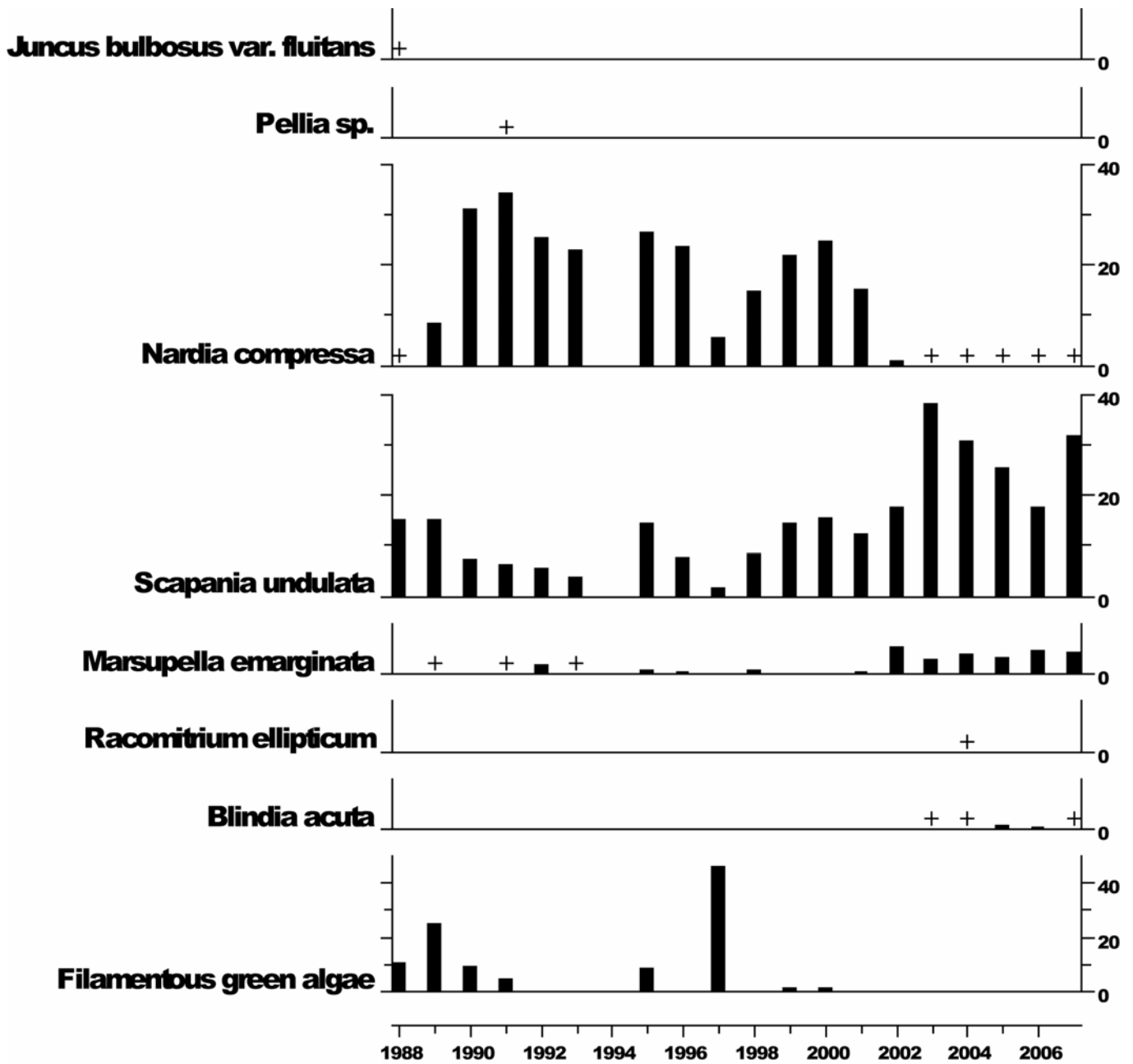


7.9.4.2 Summary statistics, Dargall Lane



7.9.5 Aquatic macrophyte data, Dargall Lane

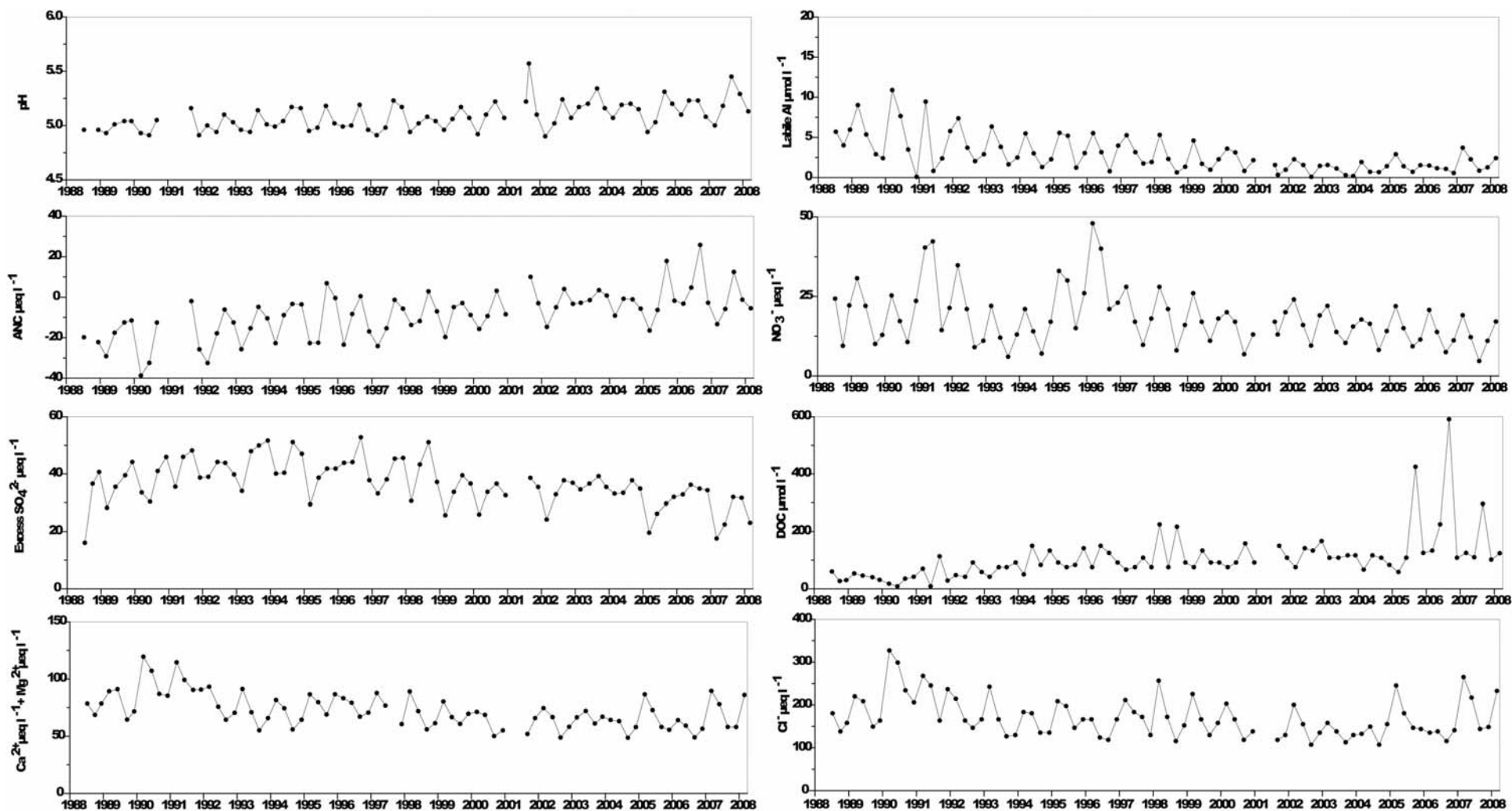
Percentage Species Cover



+ Represents <0.5% abundance

7.10 Scoat Tarn

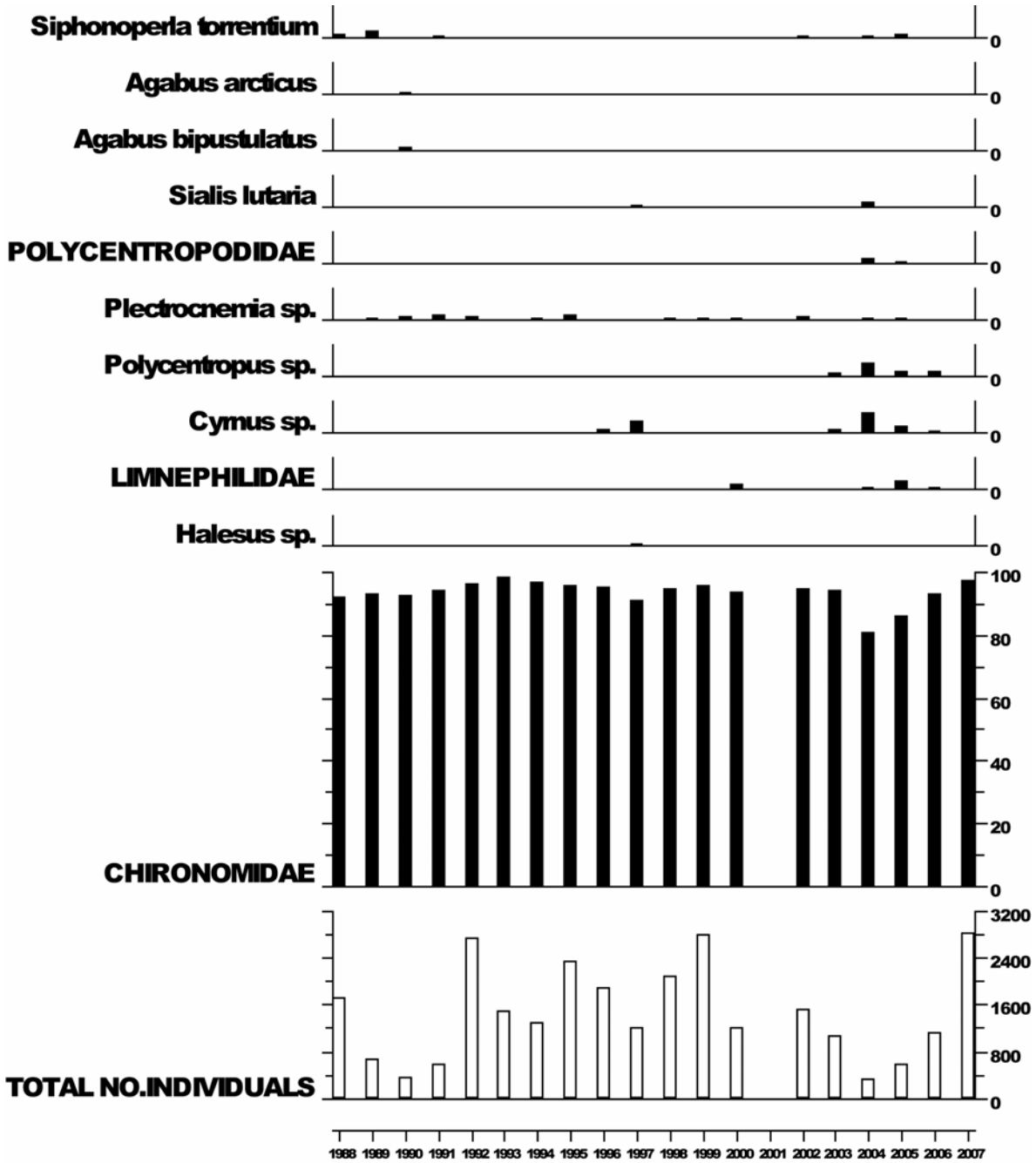
7.10.1 Spot sampled chemistry data



$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	5.00	-19.95	35.75	51.50	178.30	8.27	42.50	5.36	4.91	206.30	60.73	39.06	21.21	44.50
07-08 mean	5.26	-0.06	27.02	42.97	149.42	5.55	96.66	2.00	1.70	185.55	47.44	27.99	11.21	157.77
07-08 std.dev	0.14	8.57	4.69	9.56	29.69	3.36	64.99	0.65	0.76	46.00	1.09	5.38	5.10	92.33

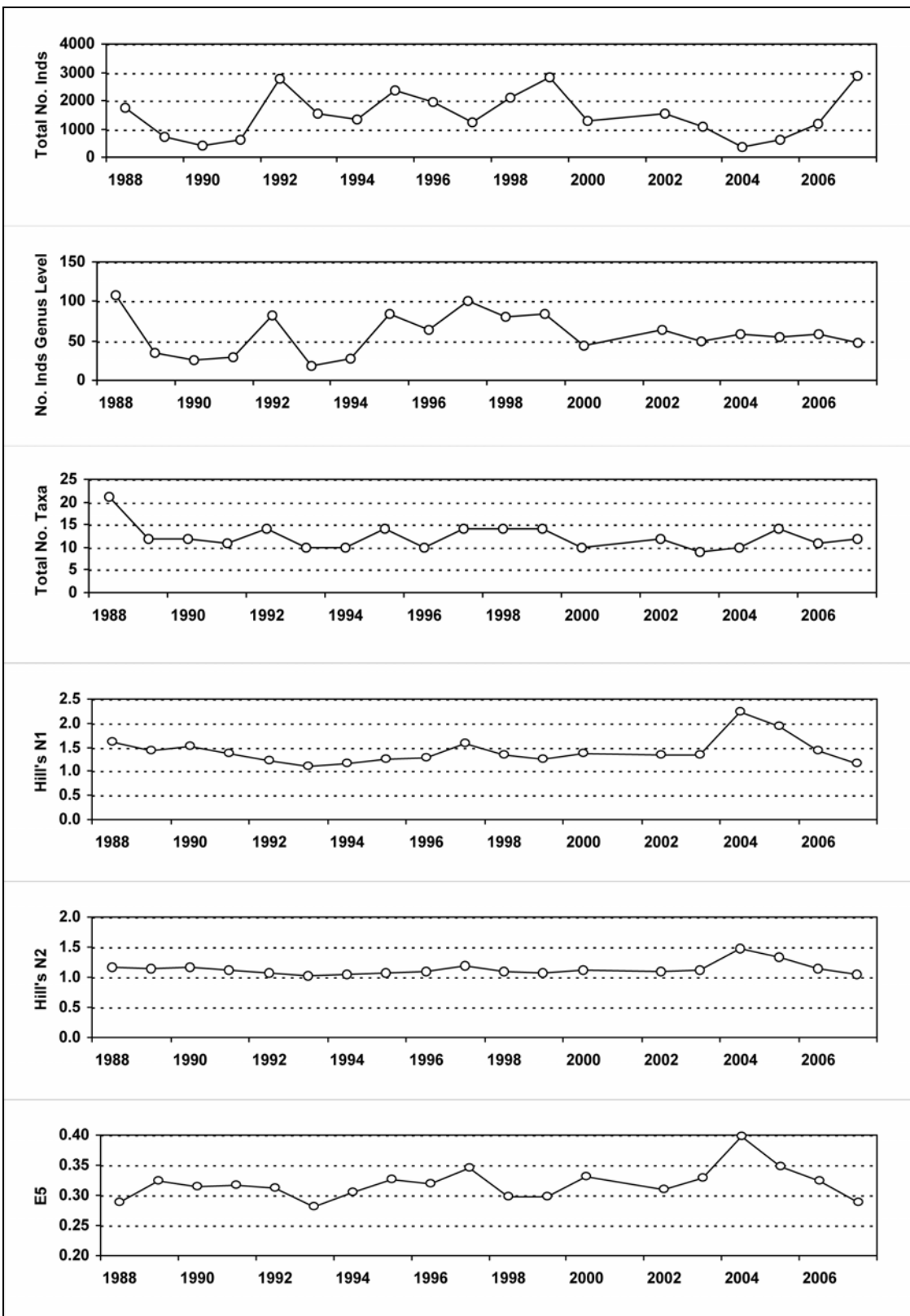
7.10.2 Macroinvertebrate data

7.10.2.1 Percentage abundance summary, Scoat Tarn



No sampling in 2001 due to Foot and Mouth restrictions.

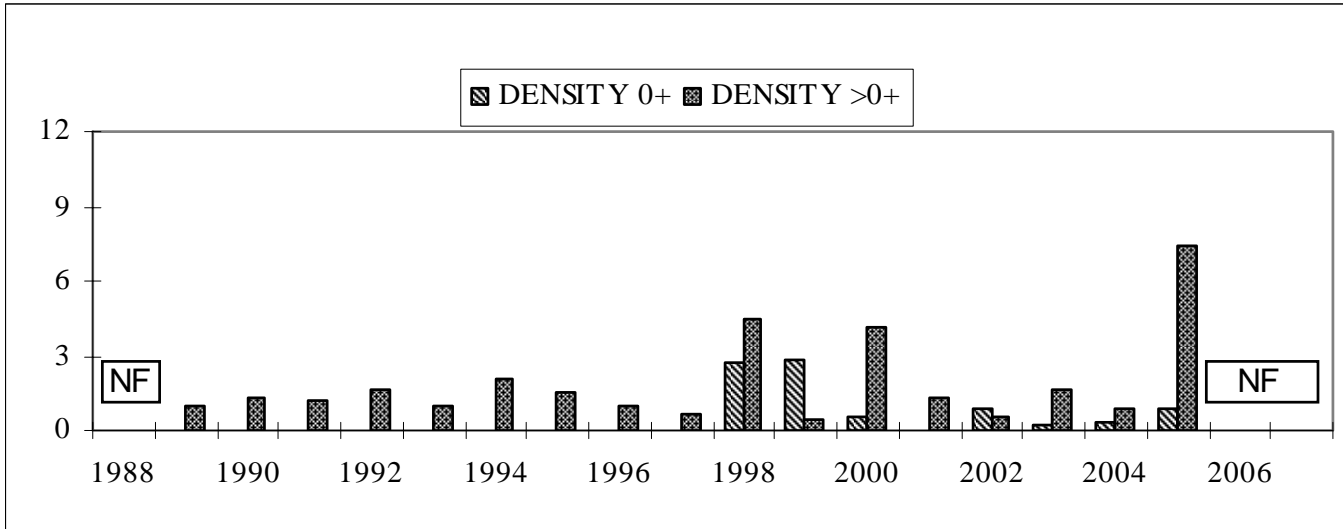
7.10.2.2 Summary statistics, Scoat Tarn



No sampling in 2001 due to Foot and Mouth restrictions.

7.10.3 Fish data (for outflow stream)

7.10.3.1 Summary of mean Trout density (numbers 100m⁻²), Scoat Tarn

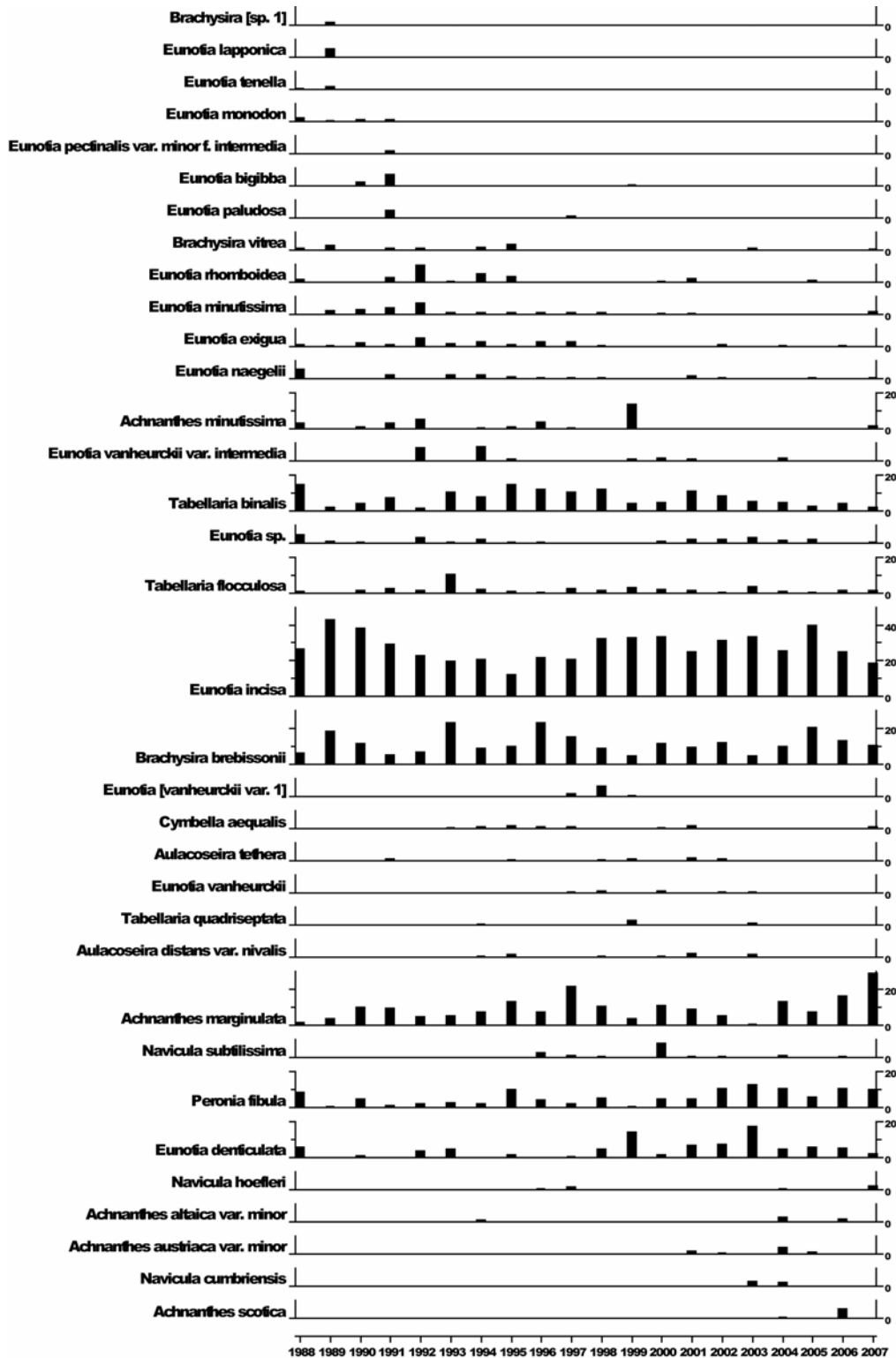


NF = Not fished

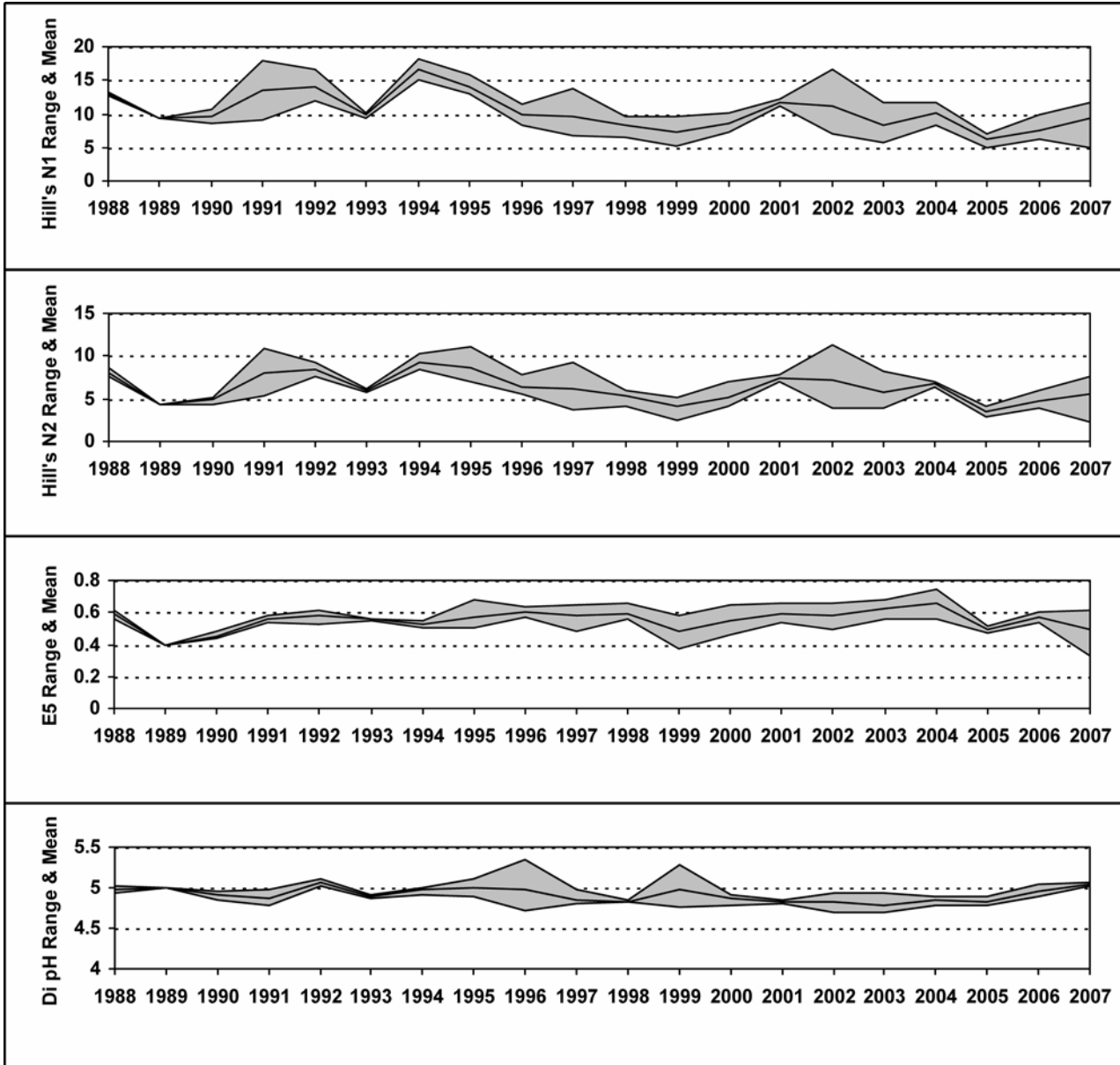
No fishing in 2007 due to funding cuts.

7.10.4 Epilithic diatom data

7.10.4.1 Percentage abundance summary, Scoat Tarn

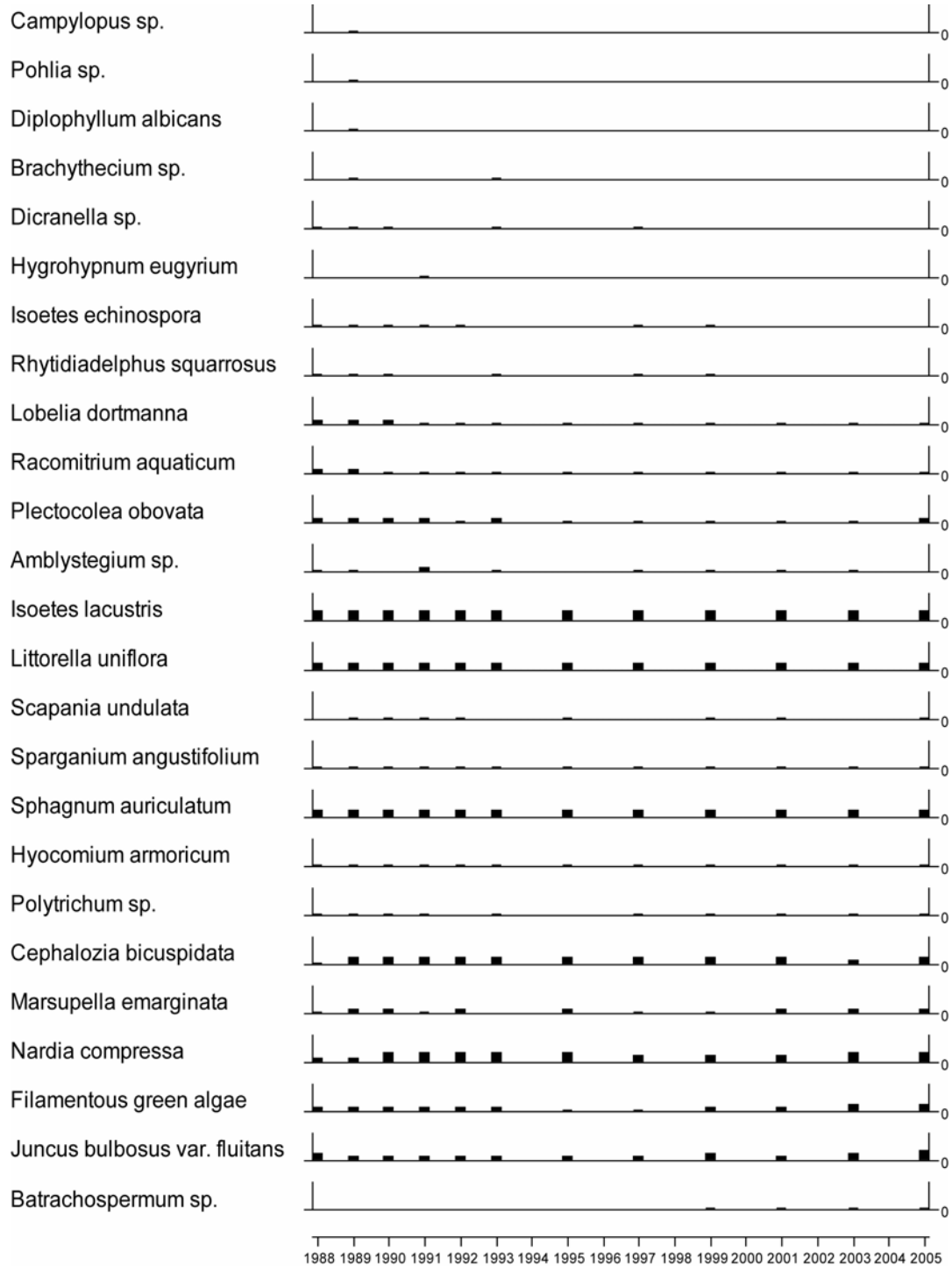


7.10.4.2 Summary statistics, Scoat Tarn



7.10.5 Aquatic macrophyte data, Scoat Tarn

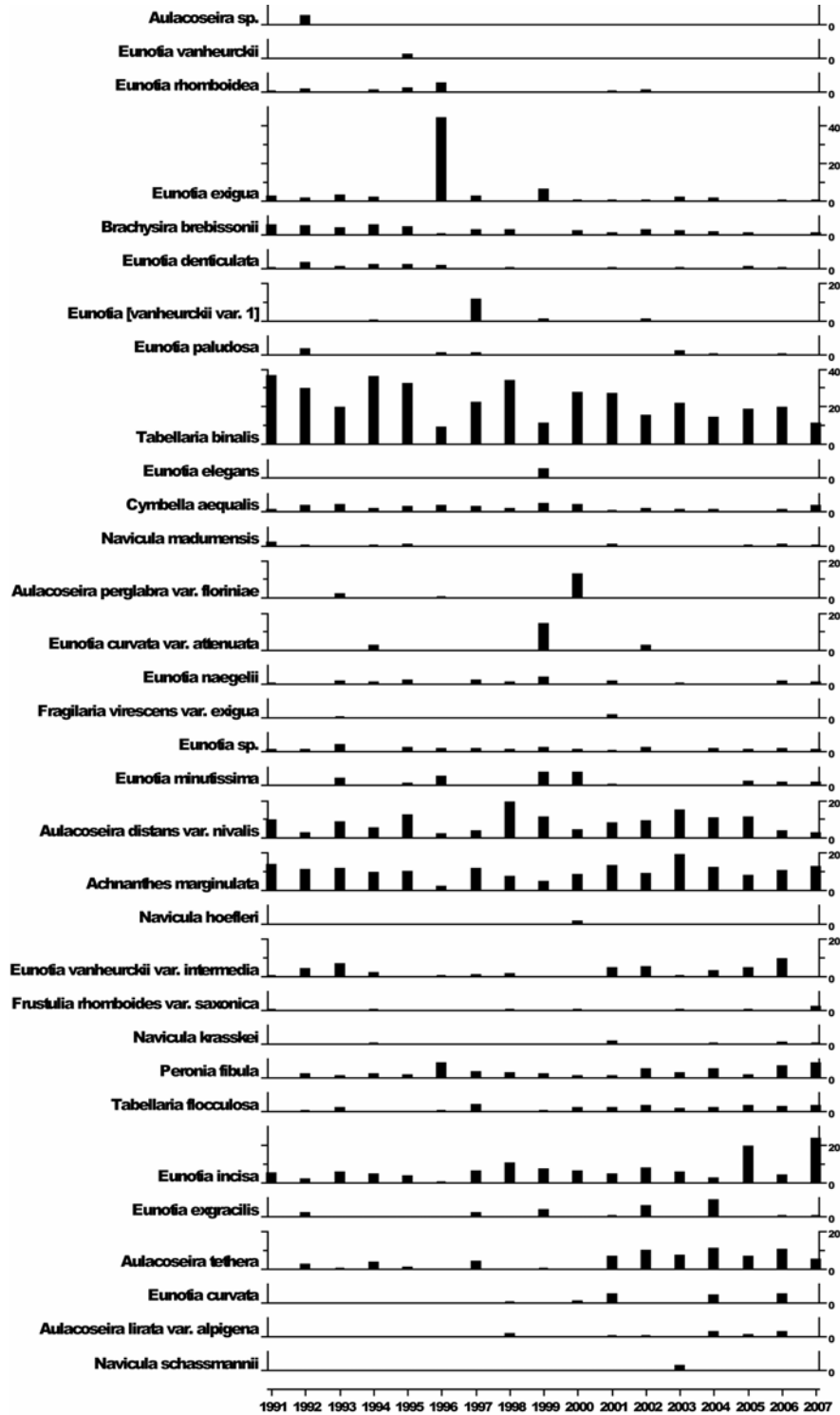
Species Scores (1-5)



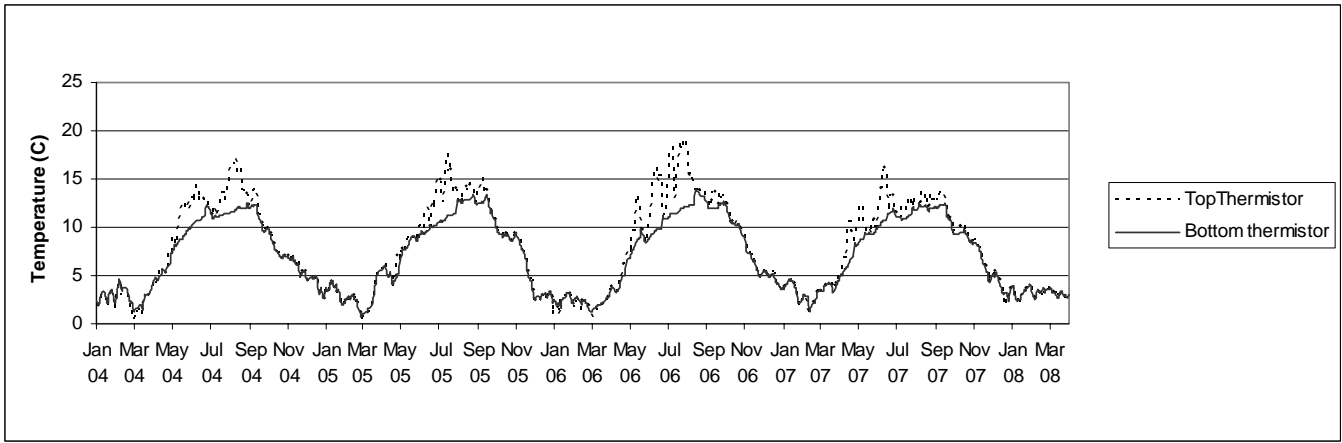
No survey in 2007 due to funding cuts

7.10.6 Sediment trap data, Scoat Tarn

Relative percentage frequency of diatom taxa

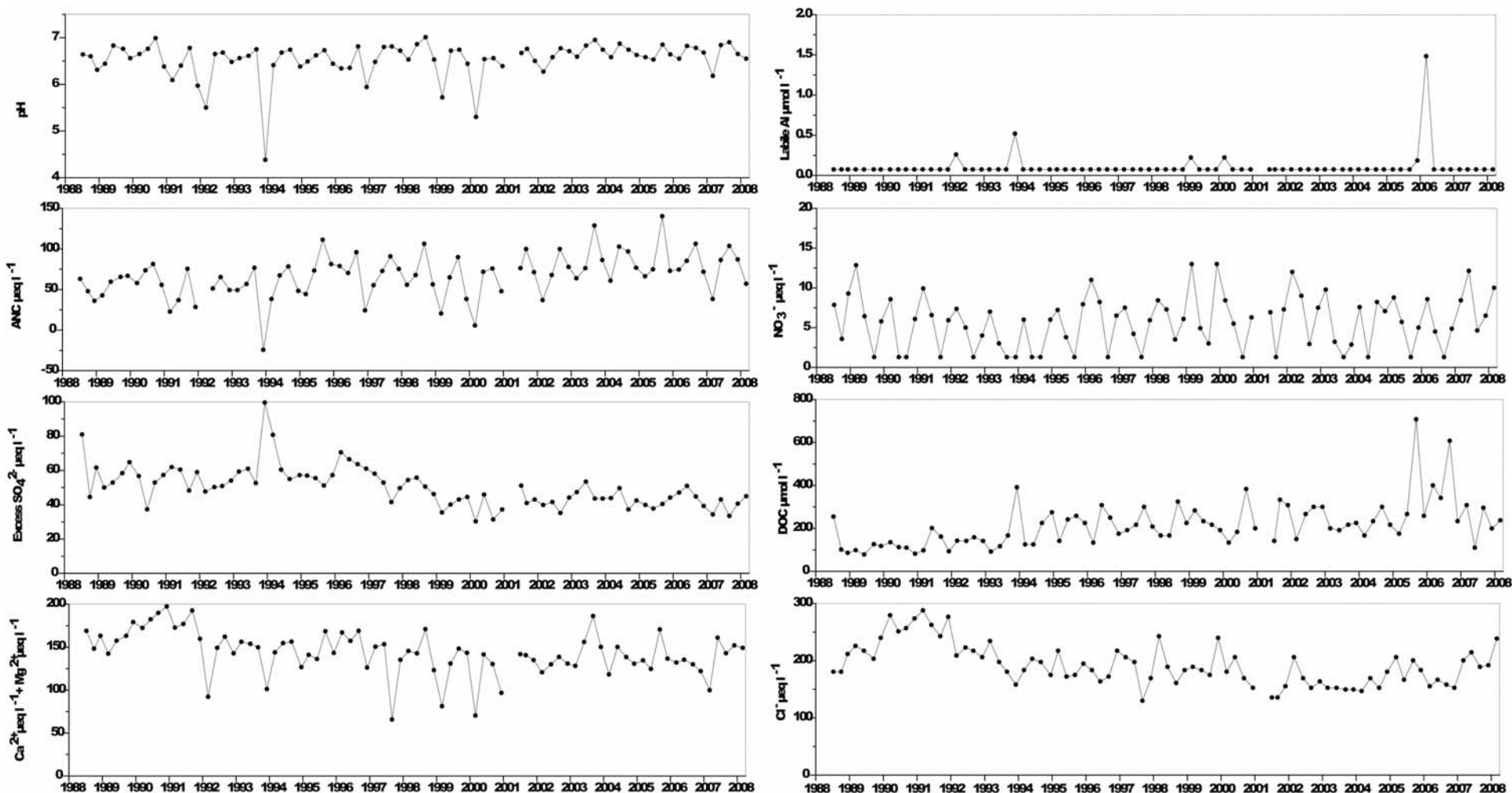


7.10.7 Thermistor data, Scoat Tarn



7.11 Burnmoor Tarn

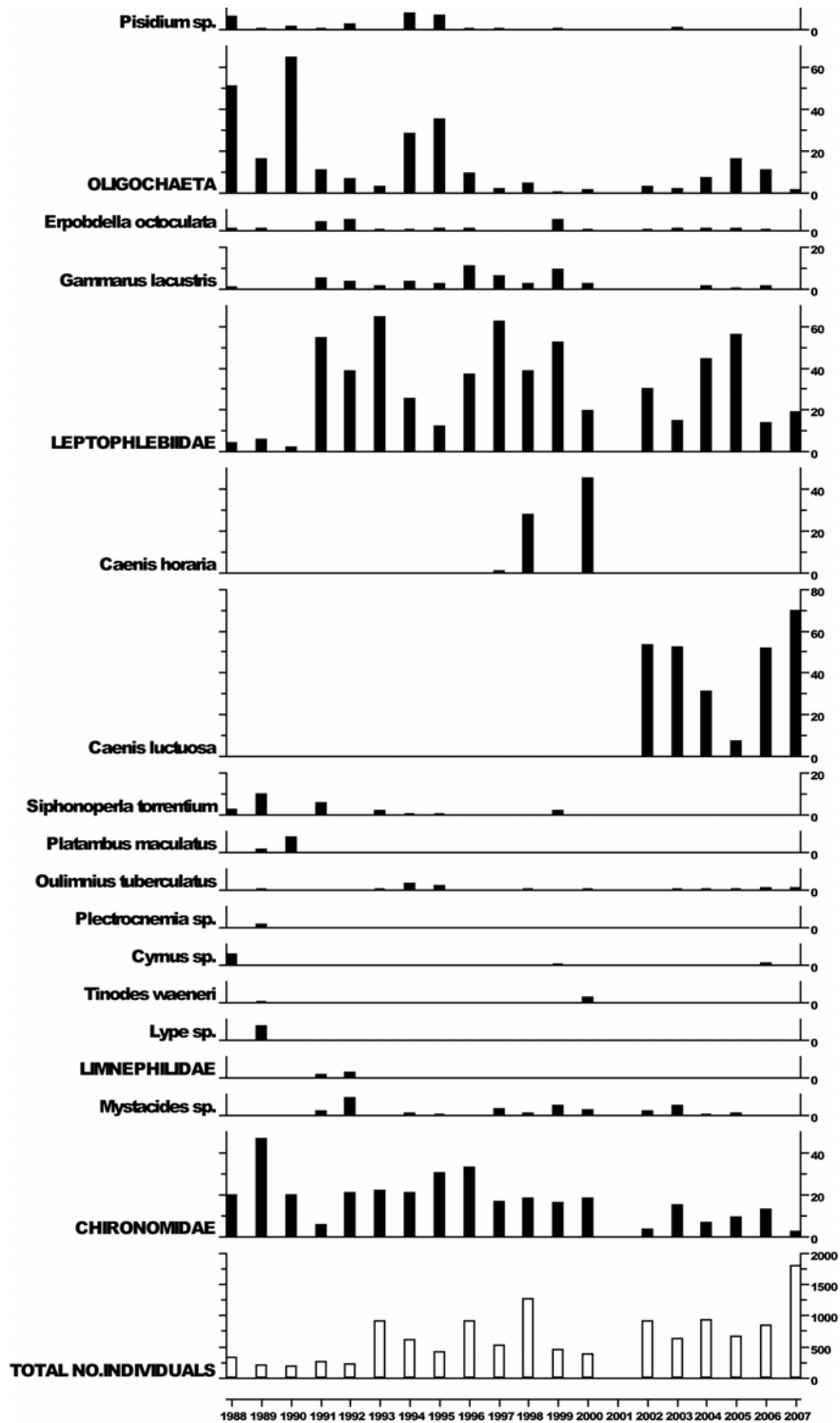
7.11.1 Spot sampled chemistry data



$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl ⁻	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	6.50	54.11	95.97	68.50	208.50	9.24	53.21	0.28	0.08	233.50	81.46	56.93	5.63	126.50
07-08 mean	6.74	83.50	88.07	63.17	180.96	7.24	121.09	0.14	0.05	208.40	63.40	41.56	8.31	210.43
07-08 std.dev	0.16	19.38	5.23	2.89	19.69	3.60	50.99	0.11	0.04	22.99	7.27	5.16	3.38	77.90

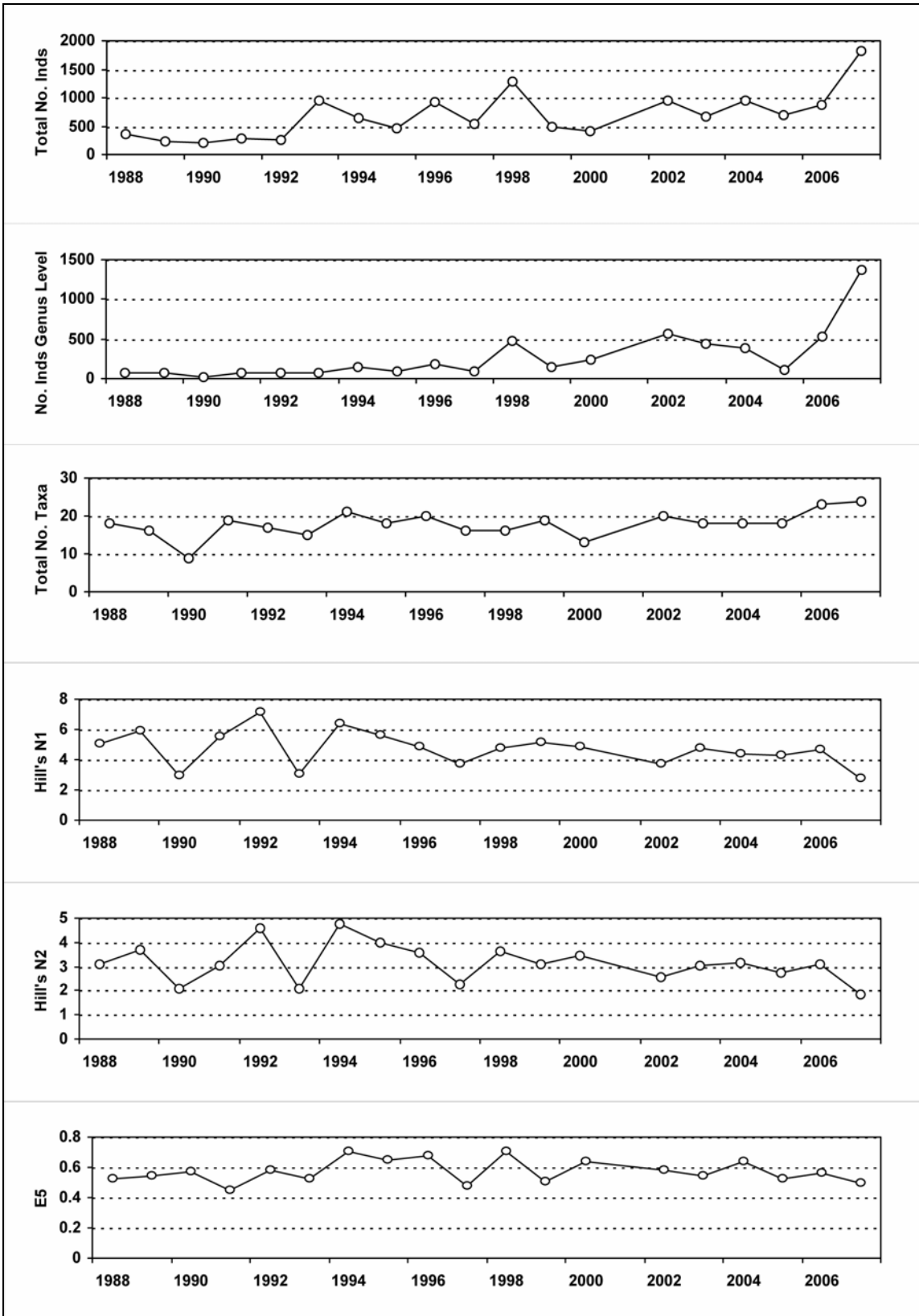
7.11.2 Macroinvertebrate data

7.11.2.1 Percentage abundance summary, Burnmoor Tarn



No sampling in 2001 due to Foot and Mouth restrictions.

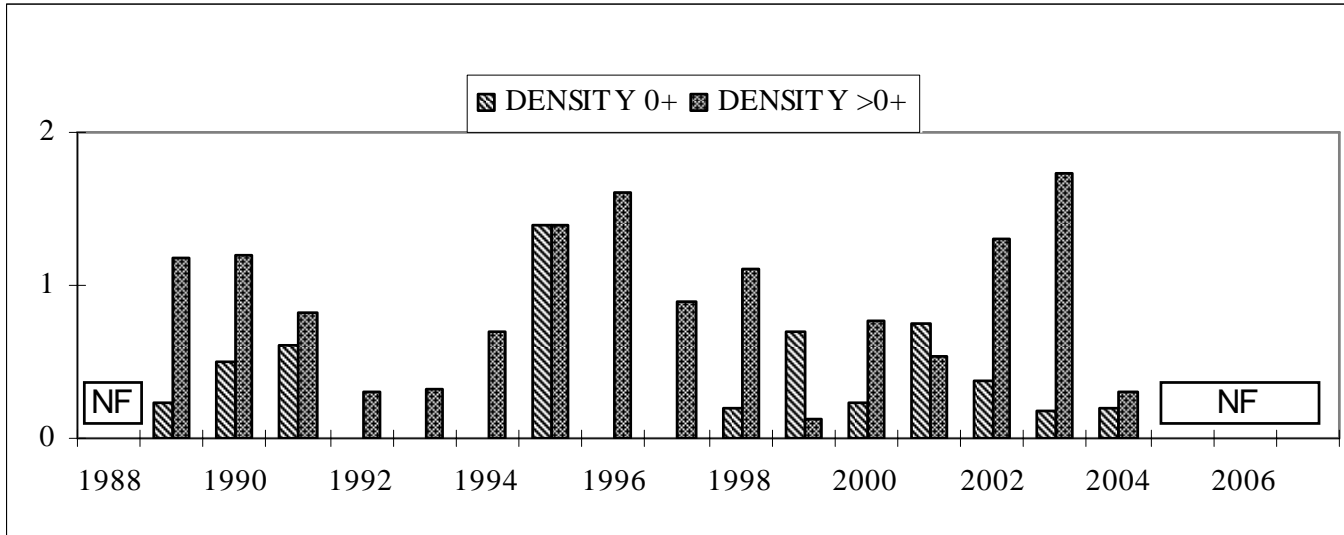
7.11.2.2 Summary statistics, Burnmoor Tarn



No sampling in 2001 due to Foot and Mouth restrictions.

7.11.3 Fish data (for outflow stream)

7.11.3.1 Summary of mean Trout density (numbers 100m⁻²), Burnmoor Tarn

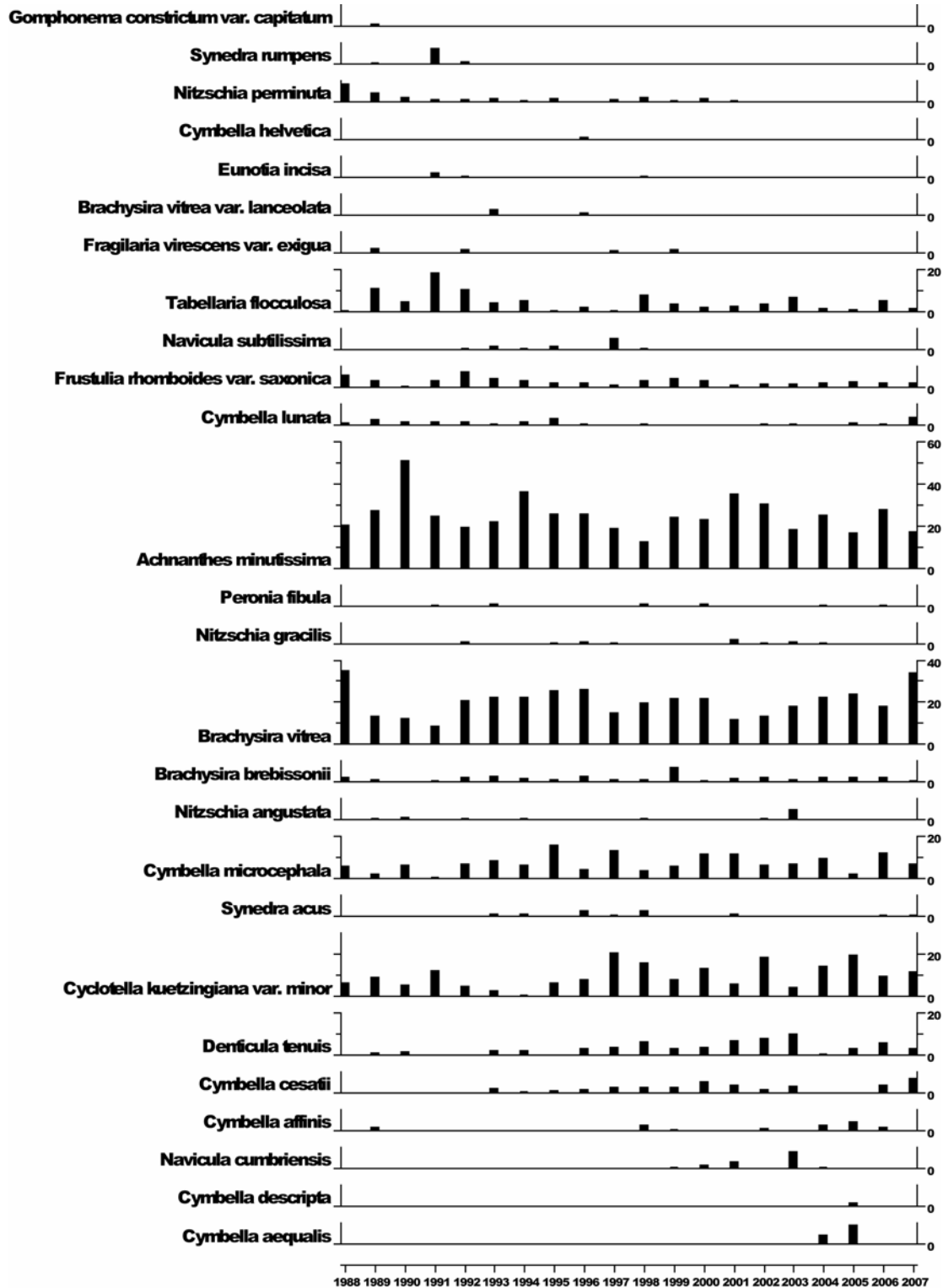


NF = Not fished

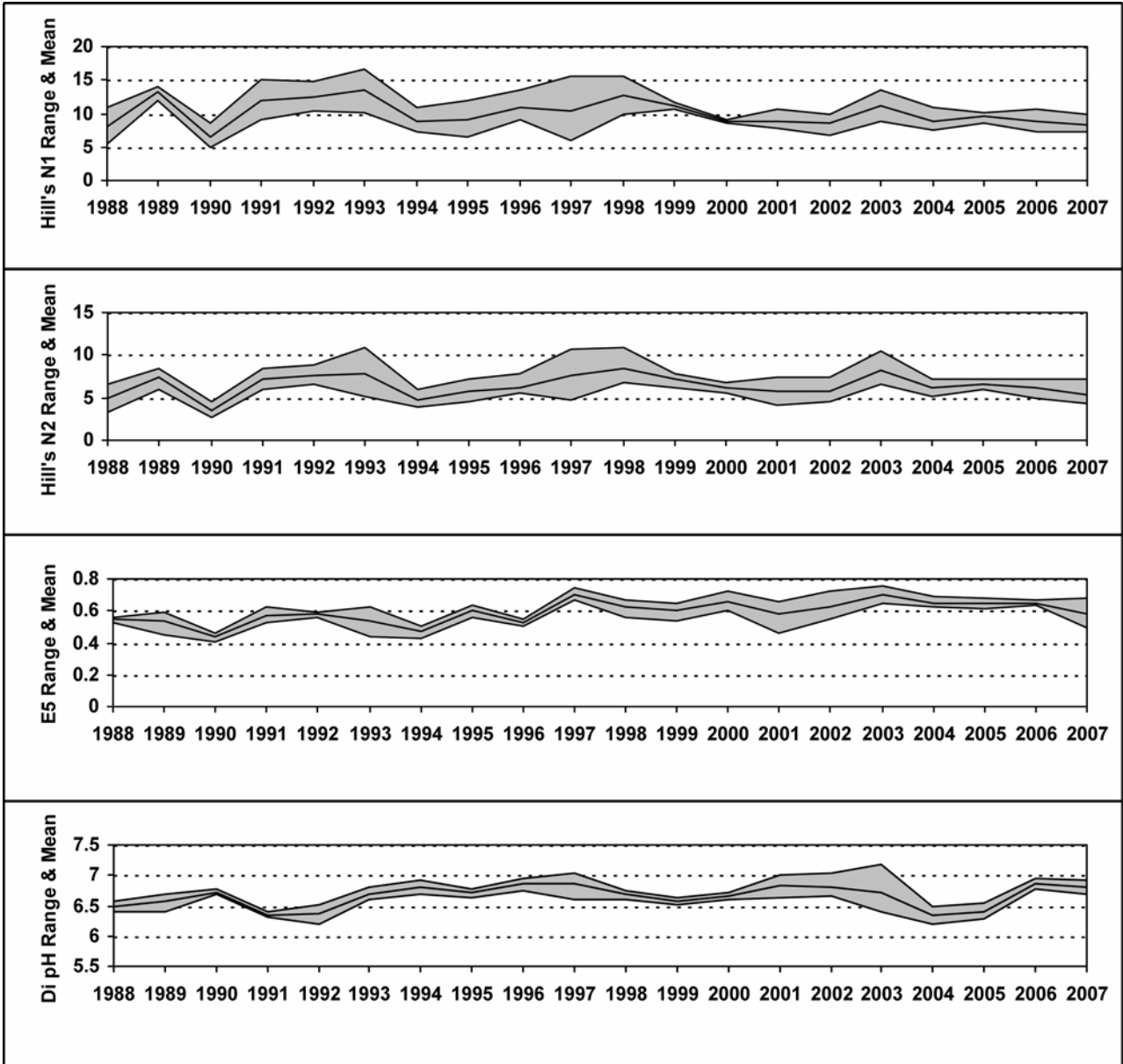
No fishing in 2007 due to funding cuts.

7.11.4 Epilithic diatom data

7.11.4.1 Percentage abundance summary, Burnmoor Tarn

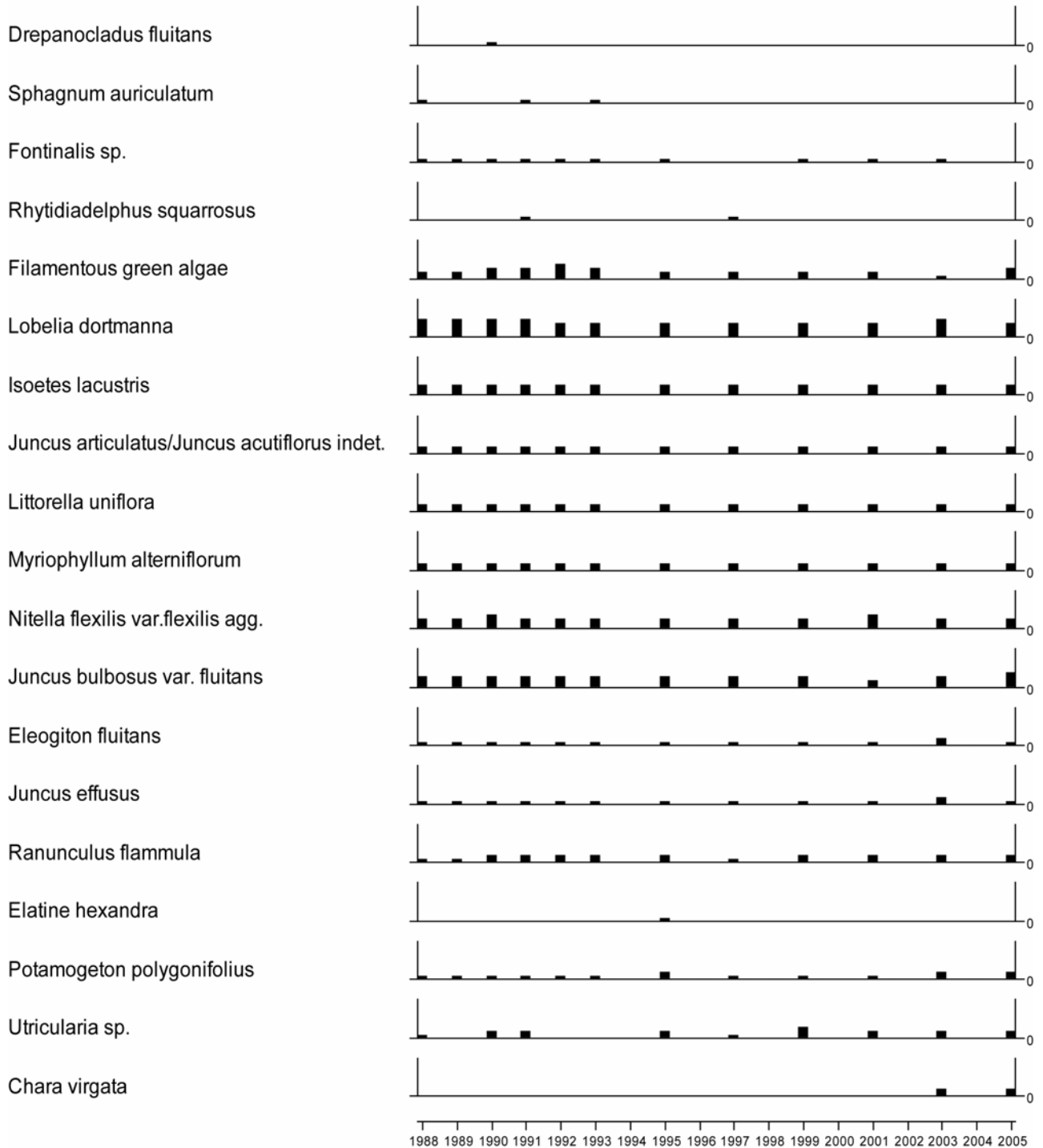


7.11.4.2 Summary statistics, Burnmoor Tarn



7.11.5 Aquatic macrophyte data, Burnmoor Tarn

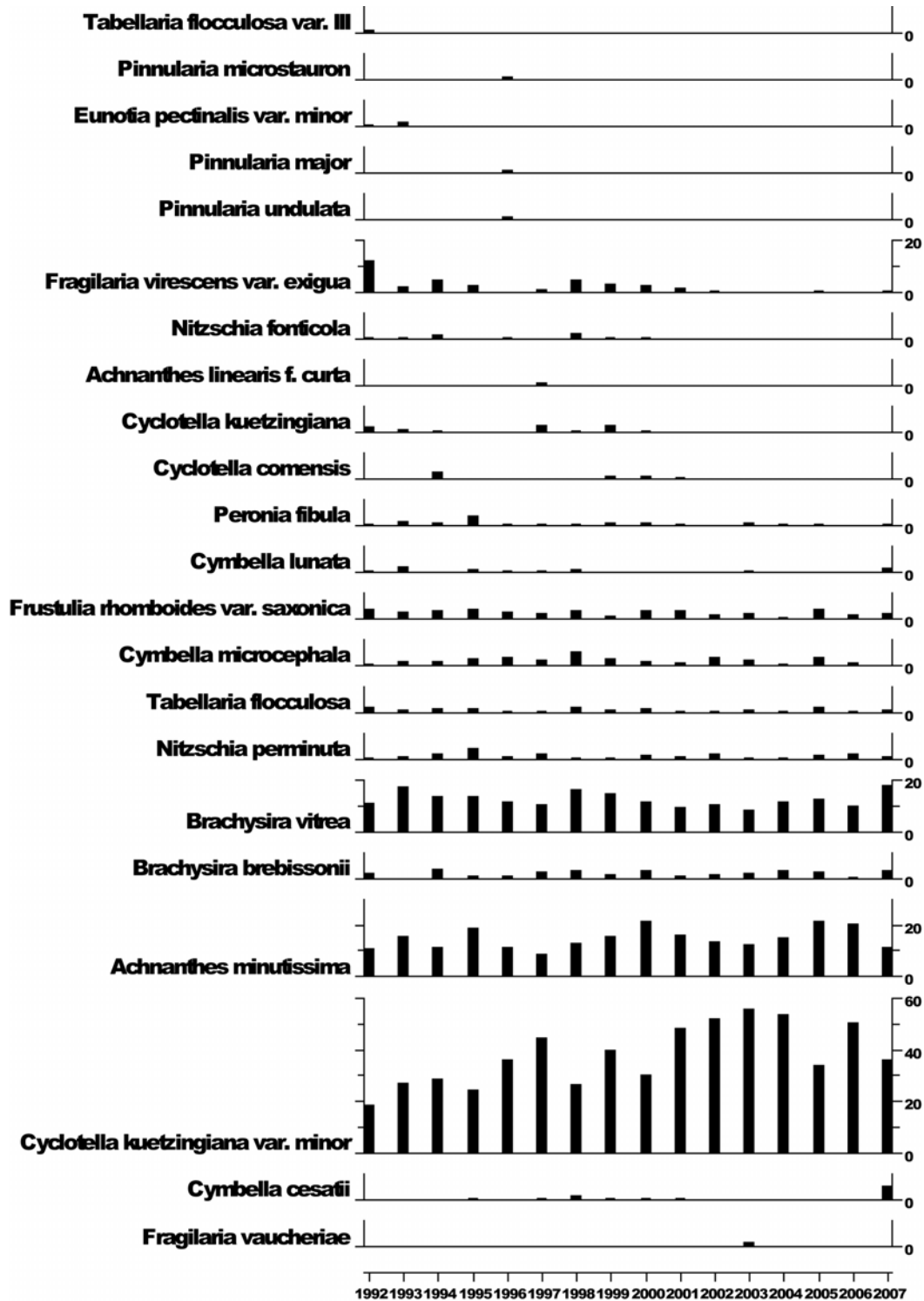
Species Scores (1-5)



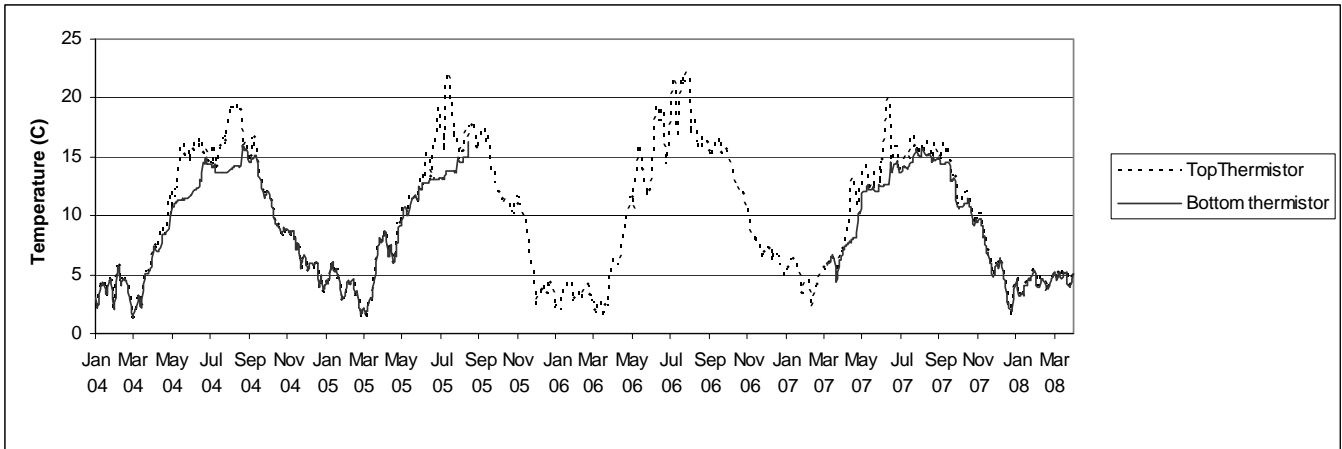
No survey in 2007 due to funding cuts

7.11.6 Sediment trap data, Burnmoor Tarn

Relative percentage frequency of diatom taxa

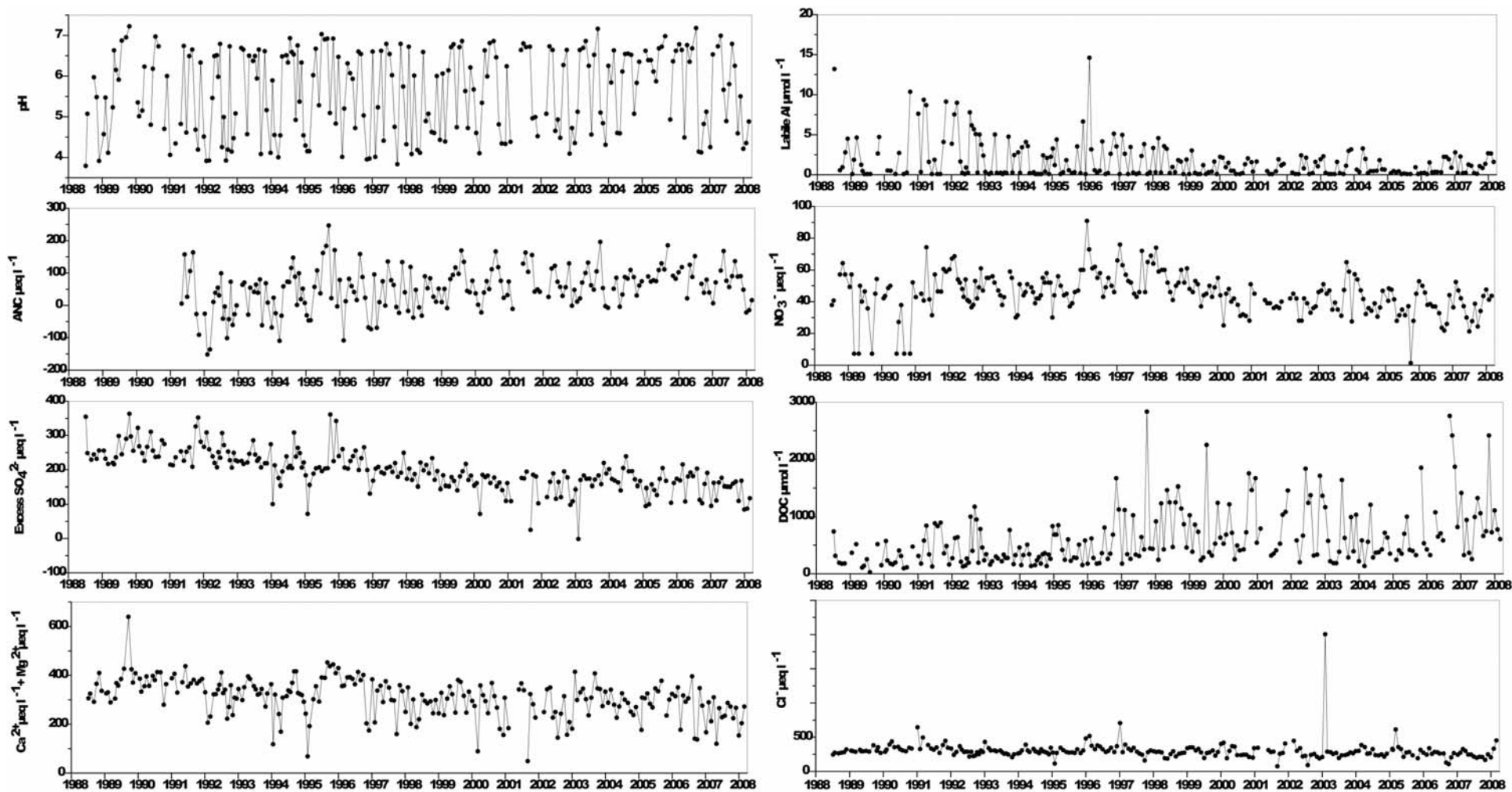


7.11.7 Thermistor data, Burnmoor Tarn



7.12 River Etherow

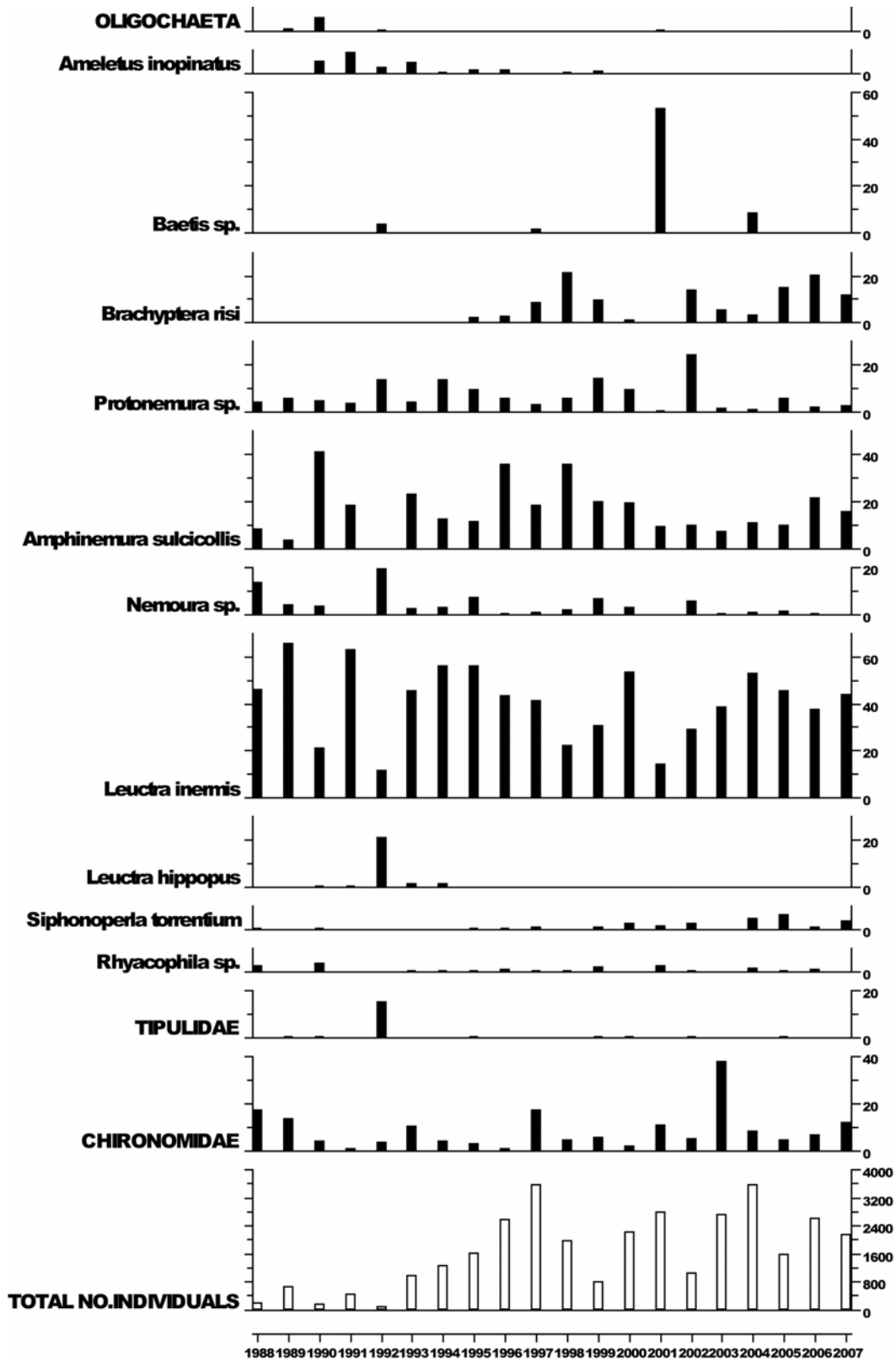
7.12.1 Spot sampled chemistry data



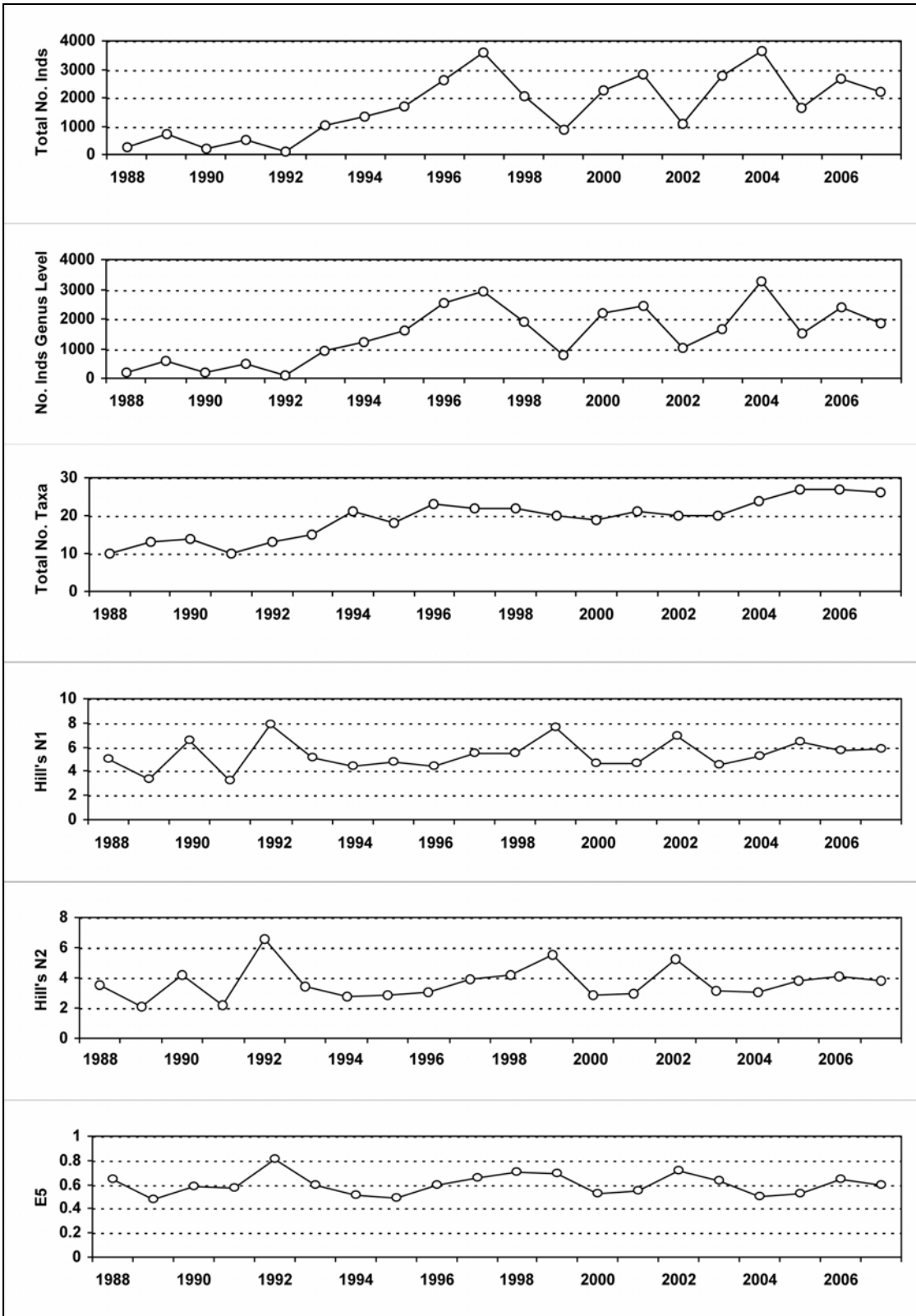
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca^{2+}	Mg^{2+}	Na^+	K^+	Si	*Soluble Al	*labile Al	Cl	SO_4^{2-}	Excess SO_4^{2-}	NO_3^-	DOC
mean 1st 5 yrs	5.53	7.12	178.30	172.10	300.50	19.83	234.00	5.24	2.64	316.40	288.70	255.40	44.47	377.30
07-08 mean	5.55	69.88	120.22	116.14	220.48	14.57	224.51	4.21	1.10	251.68	170.03	143.66	35.90	918.39
07-08 std.dev	0.98	57.06	29.12	26.88	85.87	4.36	105.62	1.96	0.89	77.47	32.05	32.67	8.47	561.37

7.12.2 Macroinvertebrate data

7.12.2.1 Percentage abundance summary, River Etherow



7.12.2.2 Summary statistics, River Etherow

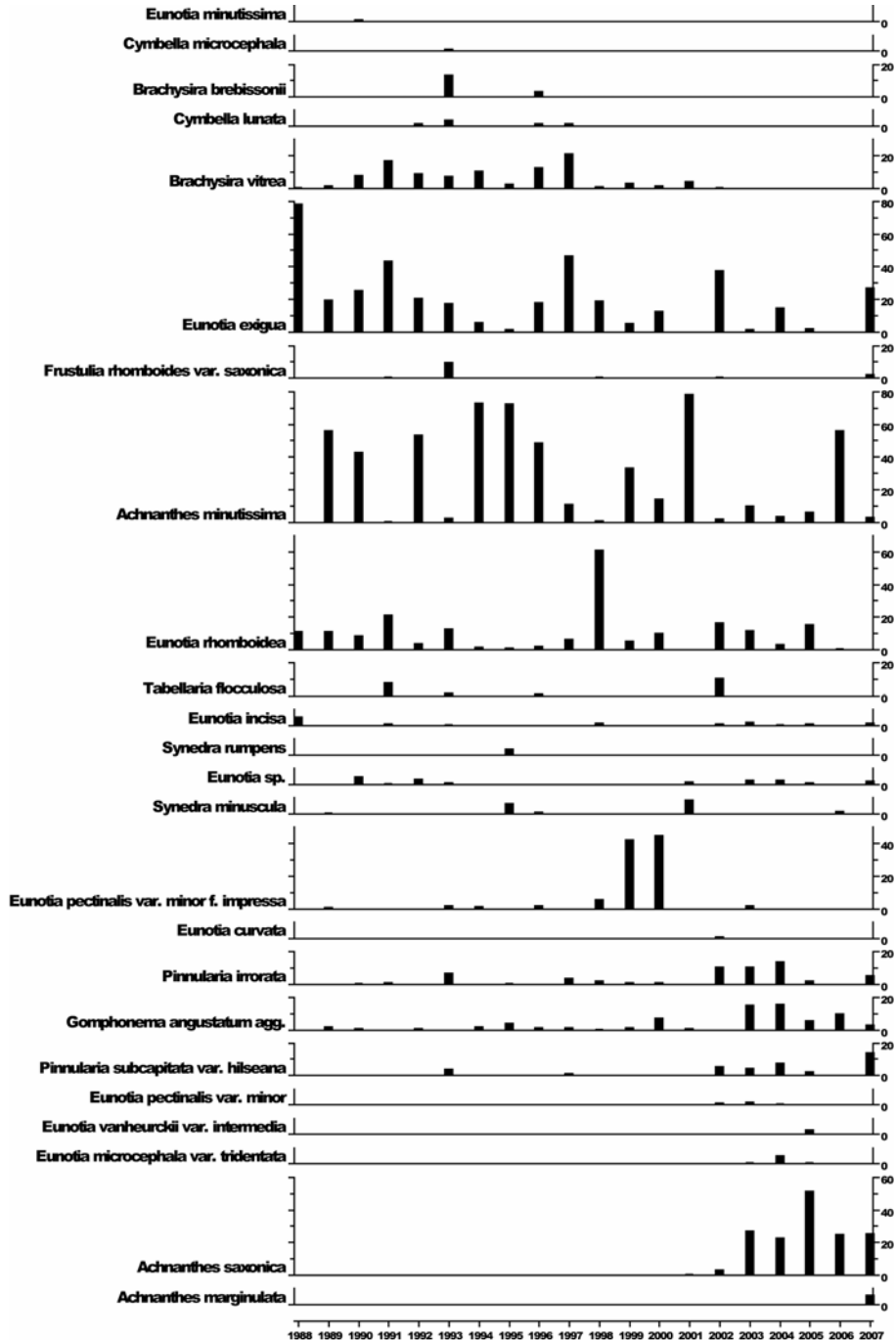


7.12.3 Fish data

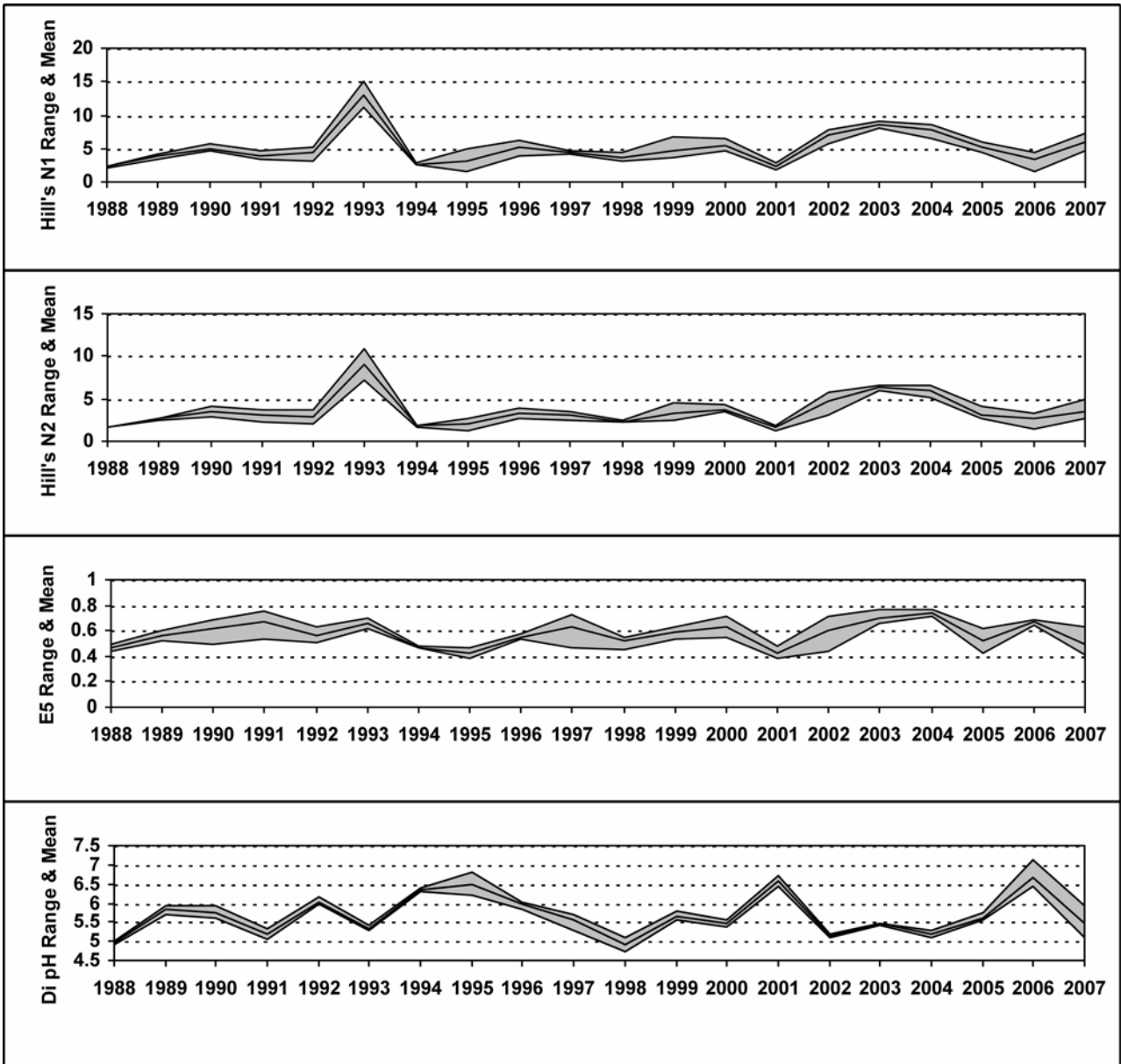
No fish are present in this reach of the river.

7.12.4 Epilithic diatom data

7.12.4.1 Percentage abundance summary, River Etherow

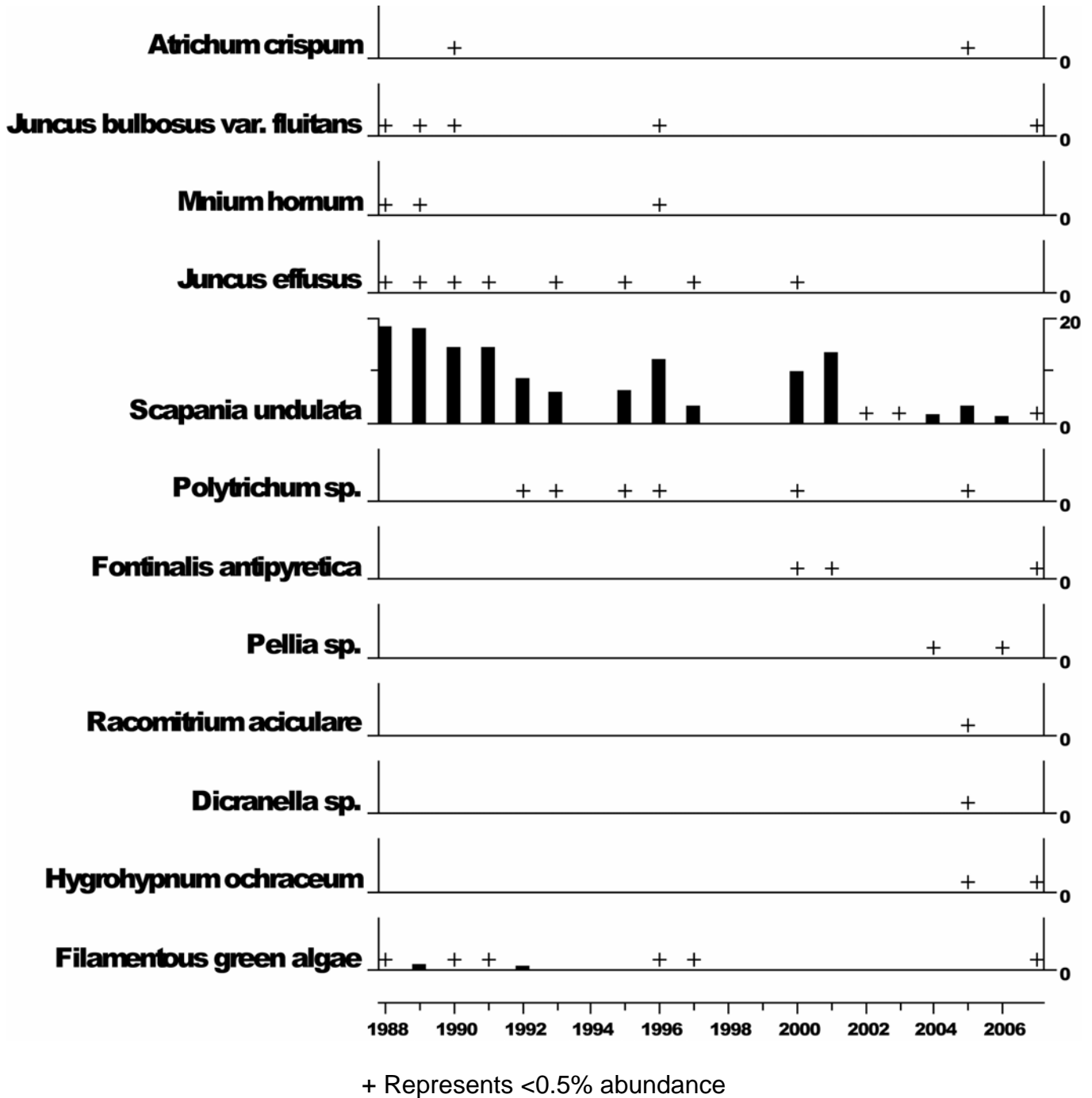


7.12.4.2 Summary statistics, River Etherow



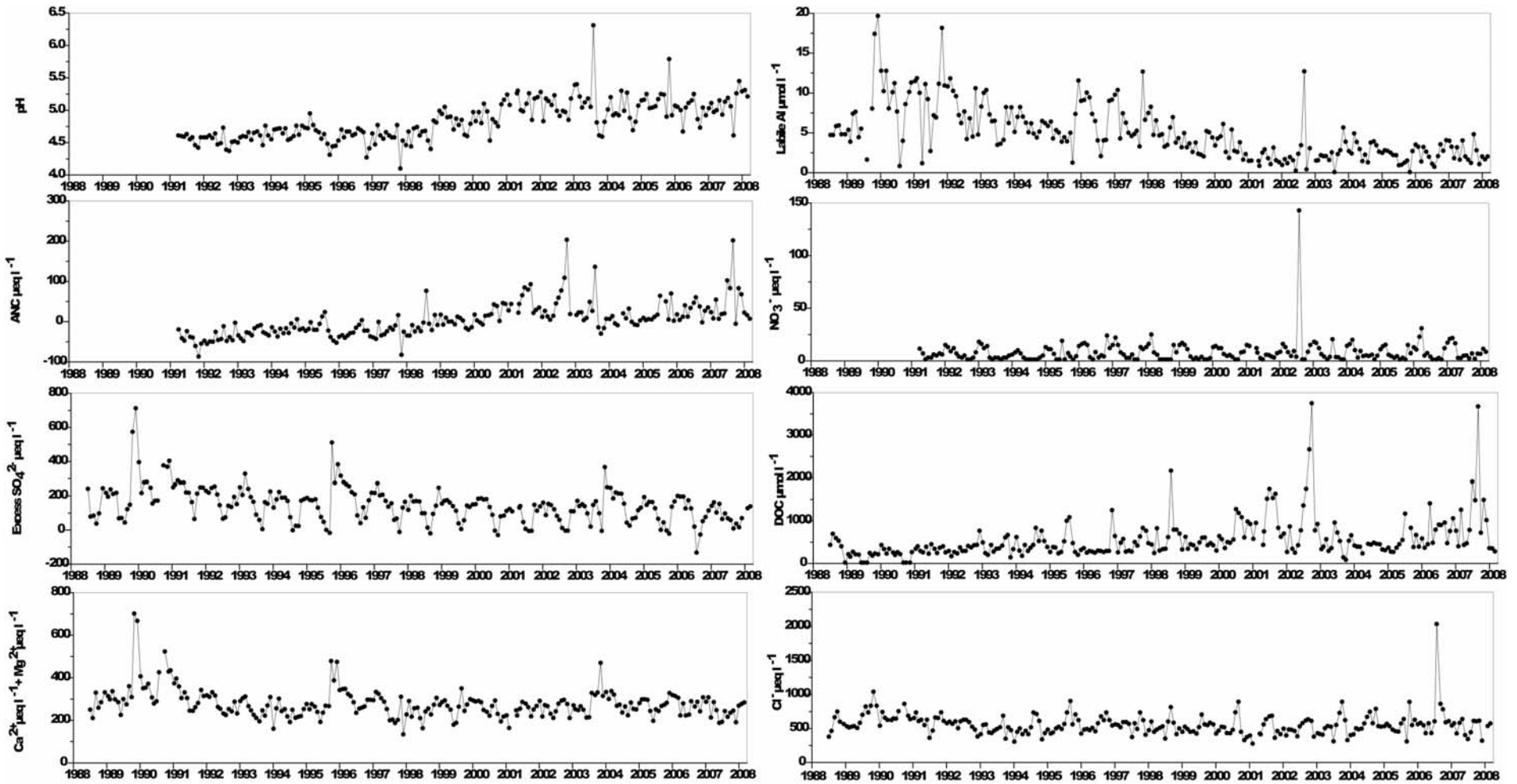
7.12.5 Aquatic macrophyte data, River Etherow

Percentage Species Cover



7.13 Old Lodge

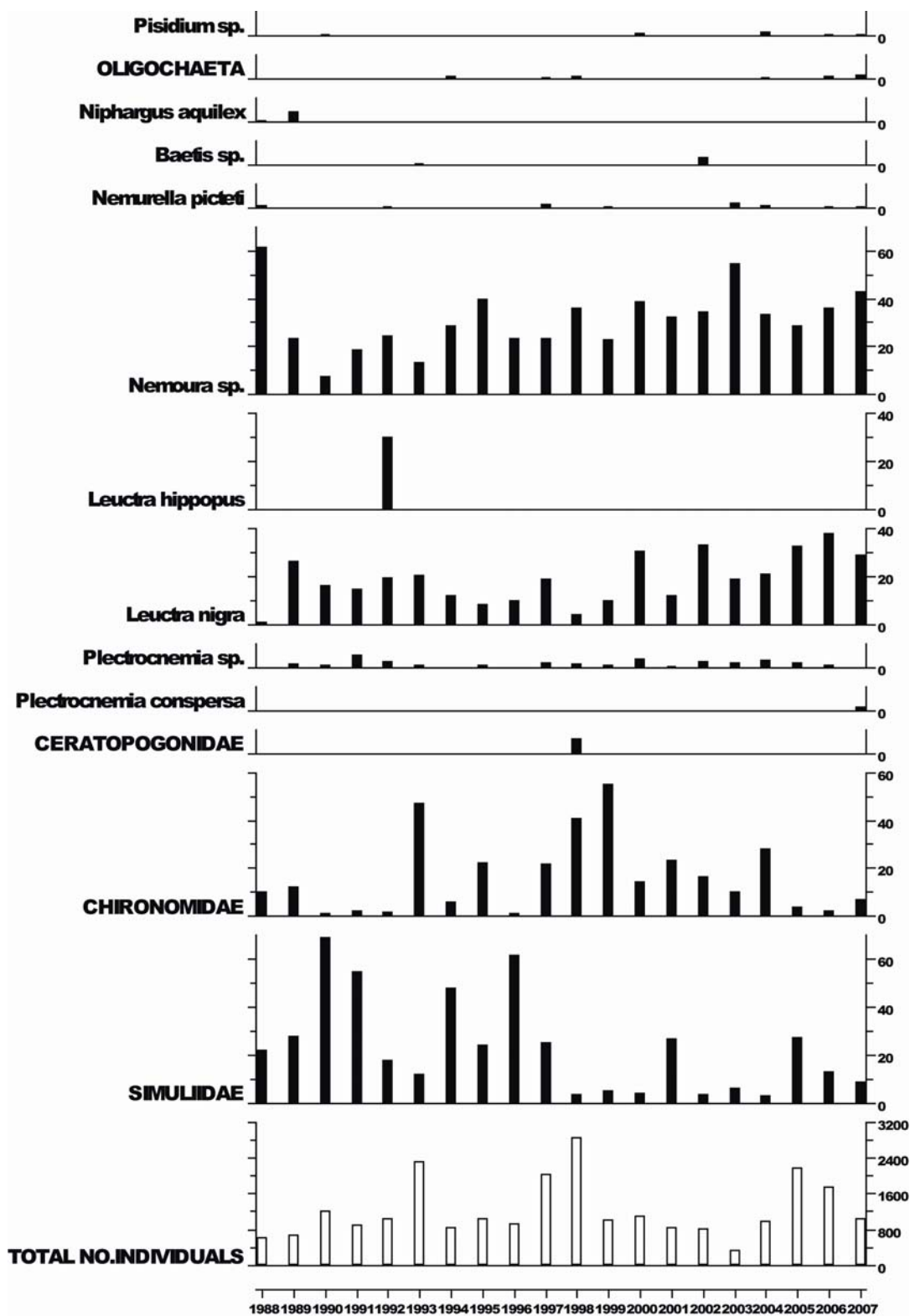
7.13.1 Spot sampled chemistry data



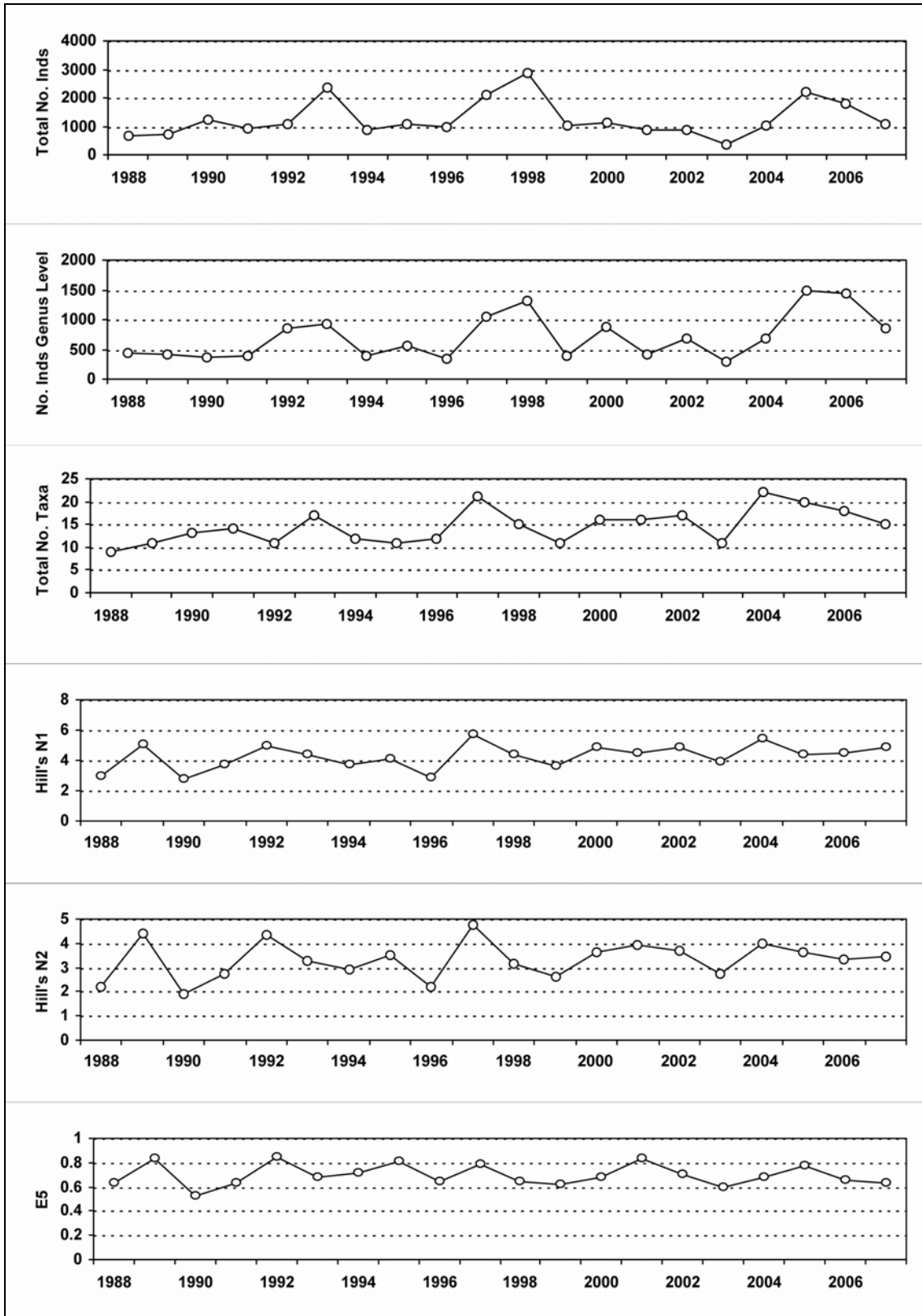
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl ⁻	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	4.55	-41.74	167.60	158.20	490.80	22.18	133.50	9.97	8.26	614.20	289.20	224.70	7.39	288.80
07-08 mean	5.13	51.94	126.33	112.89	391.22	18.45	192.05	5.32	2.35	514.19	132.20	78.31	6.35	1080.47
07-08 std.dev	0.22	59.42	17.92	22.13	72.30	7.71	40.38	2.47	1.15	116.75	49.73	49.48	4.30	974.49

7.13.2 Macroinvertebrate data

7.13.2.1 Percentage abundance summary, Old Lodge

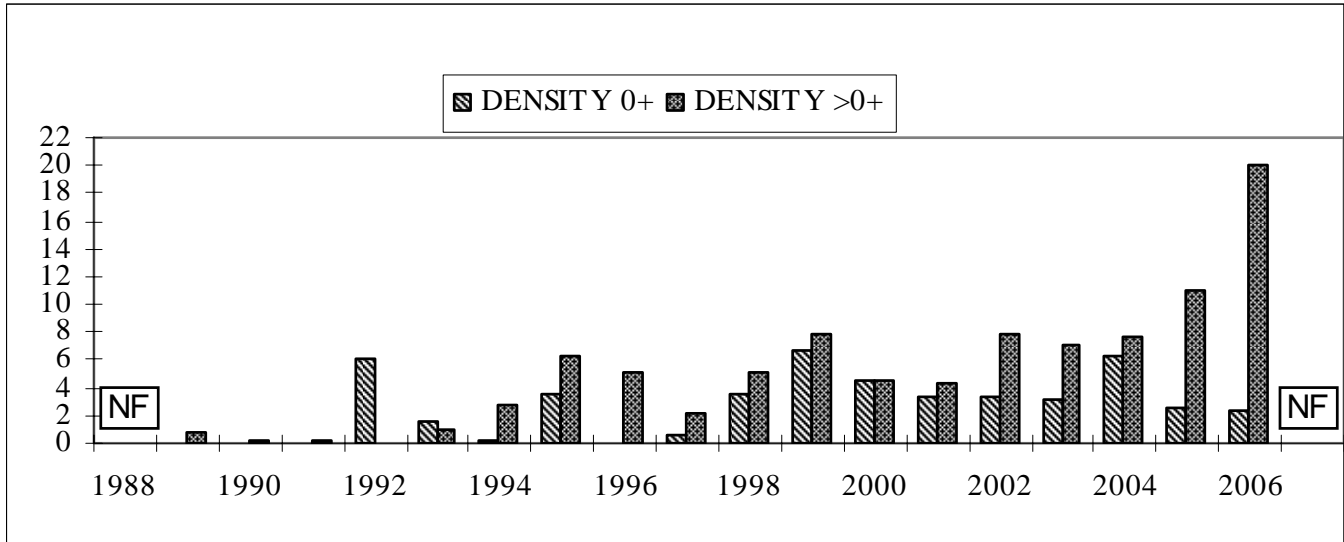


7.13.2.2 Summary statistics, Old Lodge



7.13.3 Fish data

7.13.3.1 Summary of mean Trout density (numbers 100m⁻²), Old Lodge

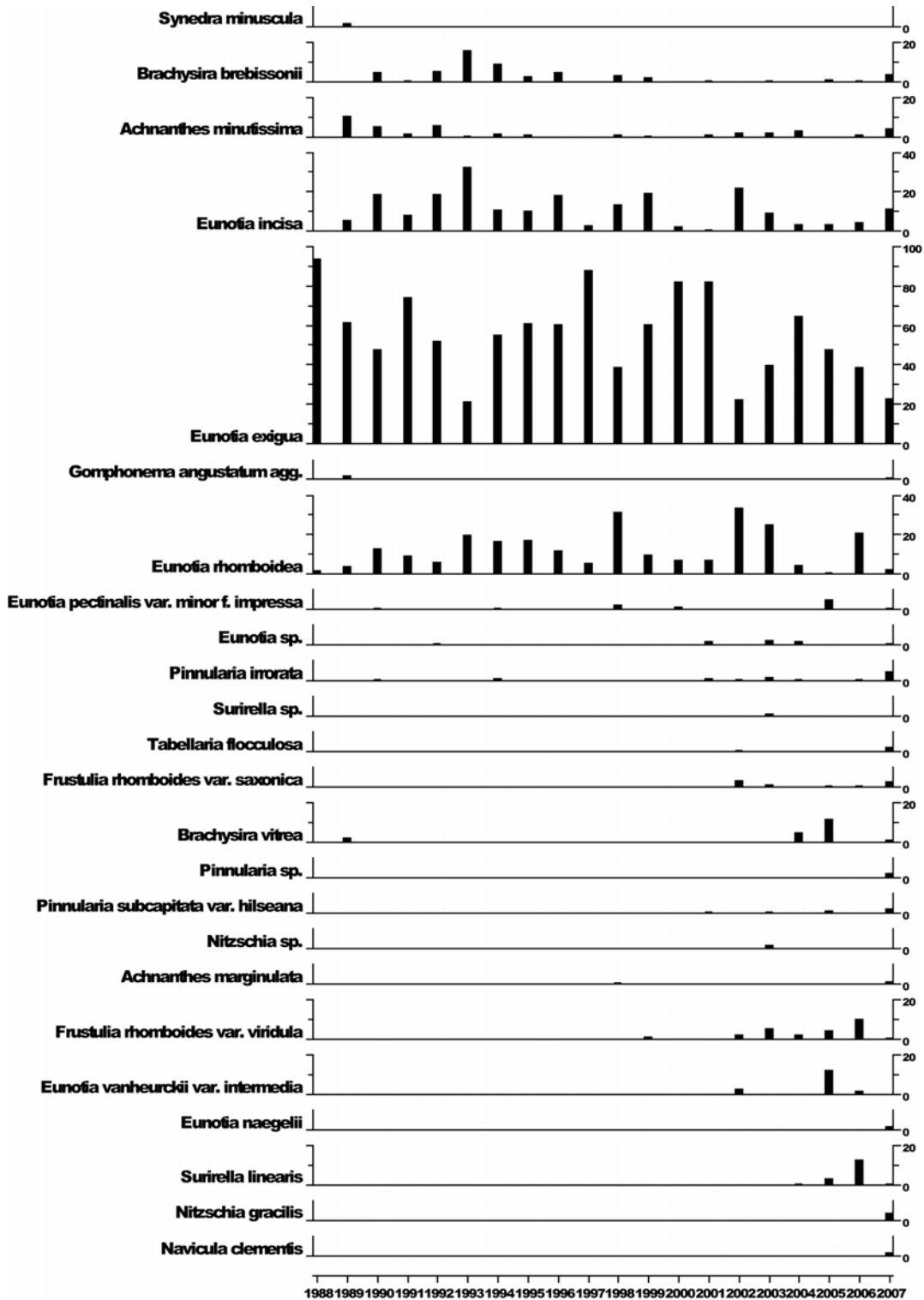


NF = Not fished

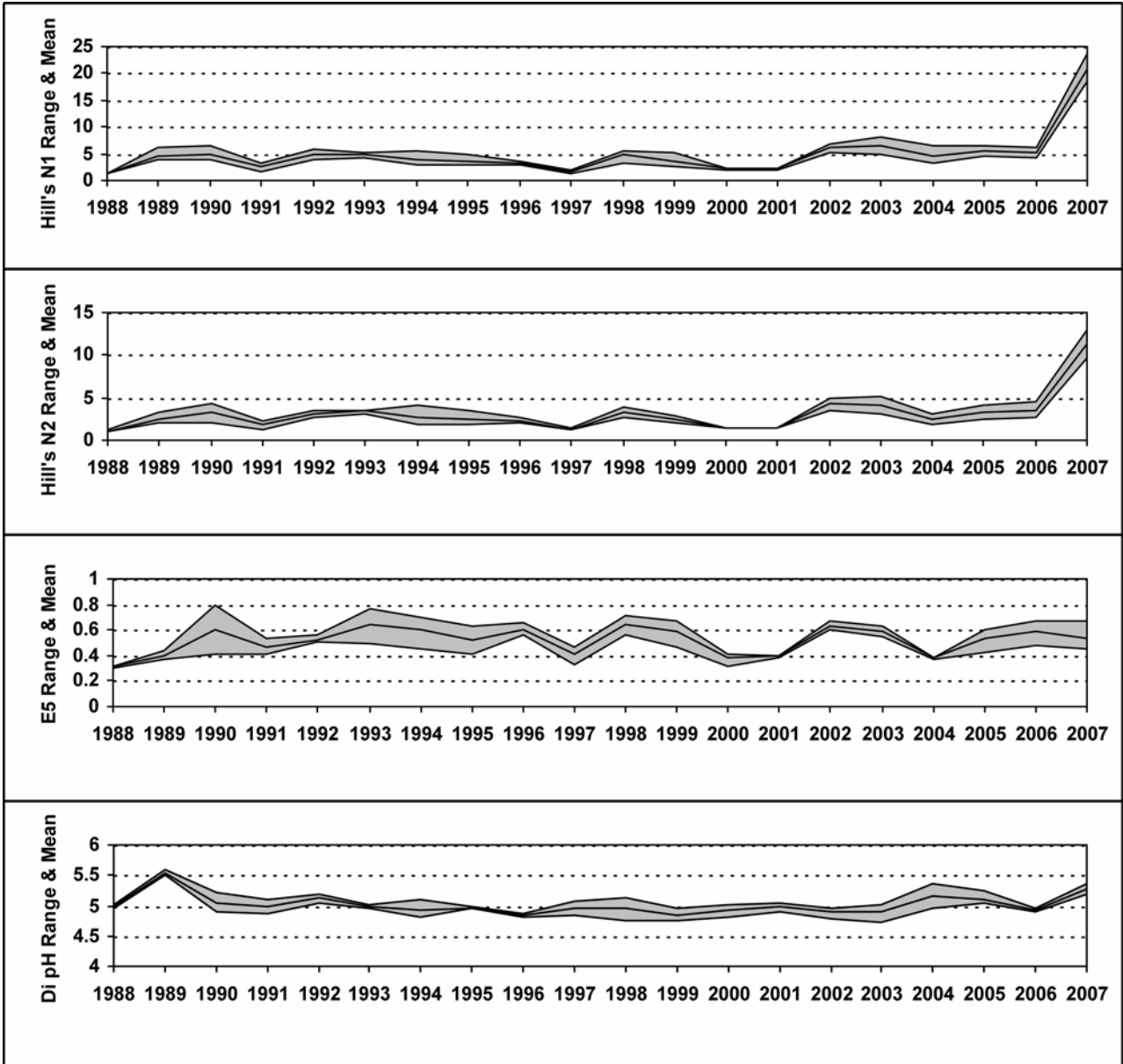
No fishing in 2007 due to funding cuts.

7.13.4 Epilithic diatom data

7.13.4.1 Percentage abundance summary, Old Lodge

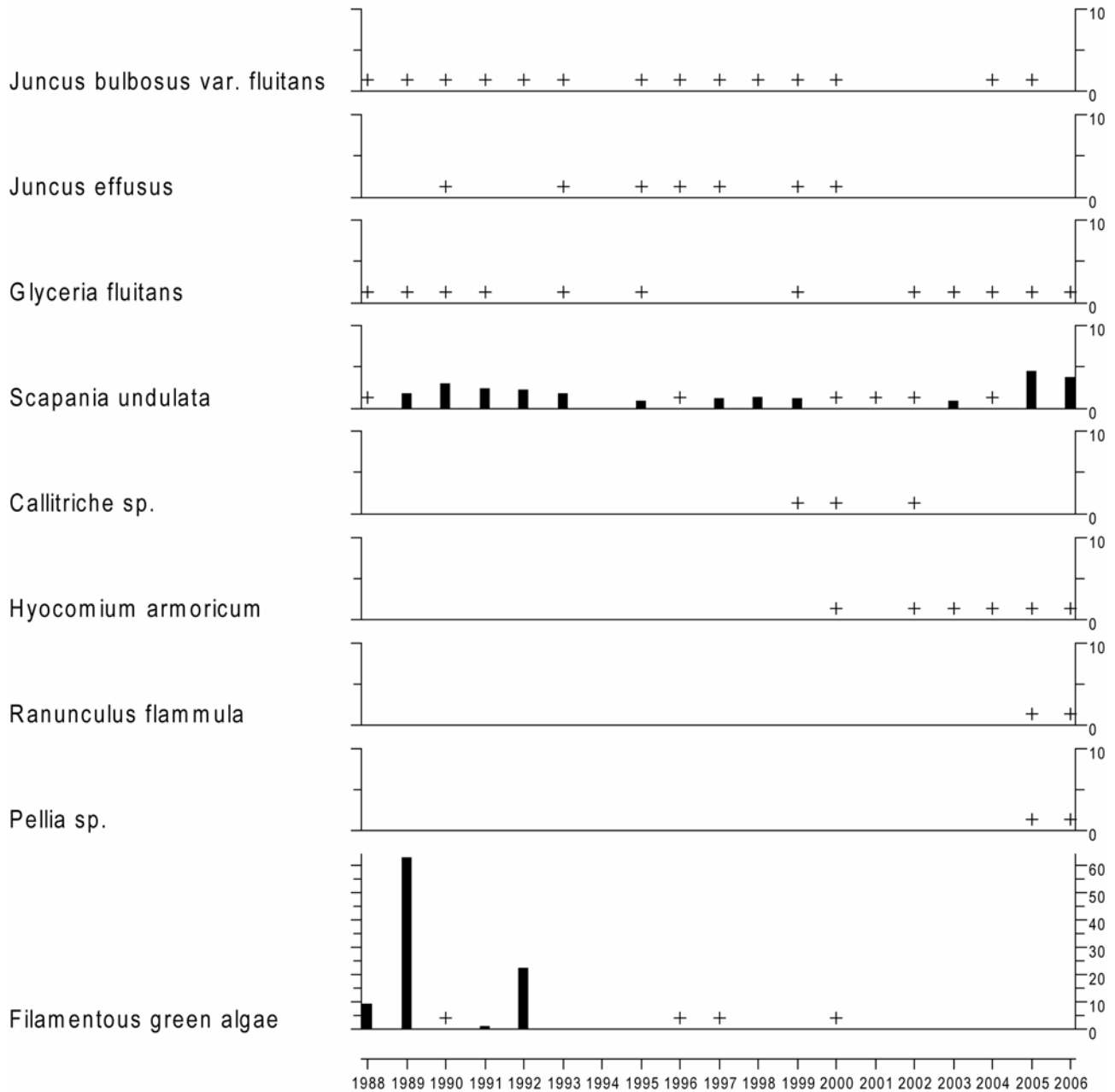


7.13.4.2 Summary statistics, Old Lodge



7.13.5 Aquatic macrophyte data, Old Lodge

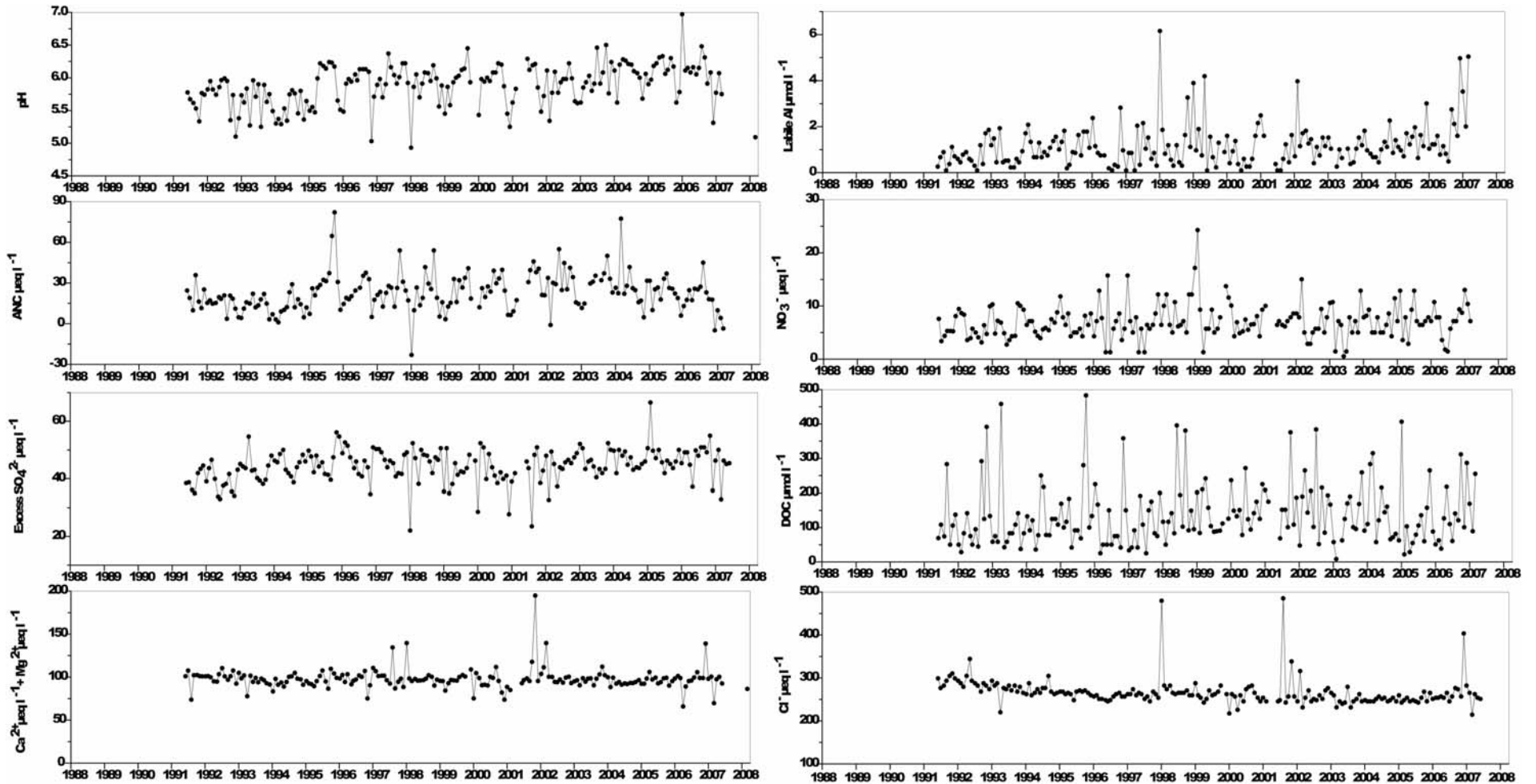
Percentage Species Cover



+ Represents <0.25% abundance
 No survey in 2007 due to funding cuts

7.14 Narrator Brook

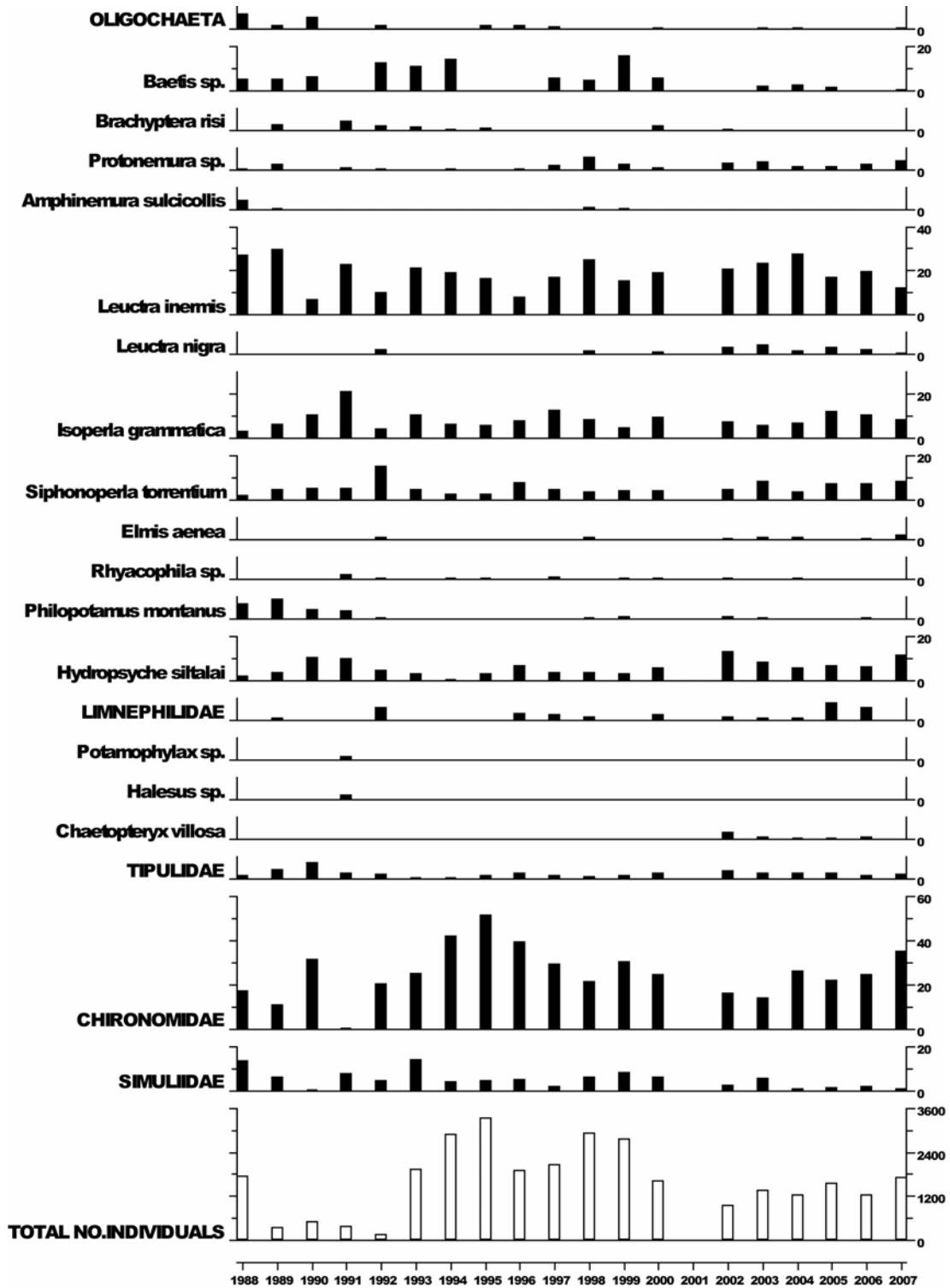
7.14.1 Spot sampled chemistry data



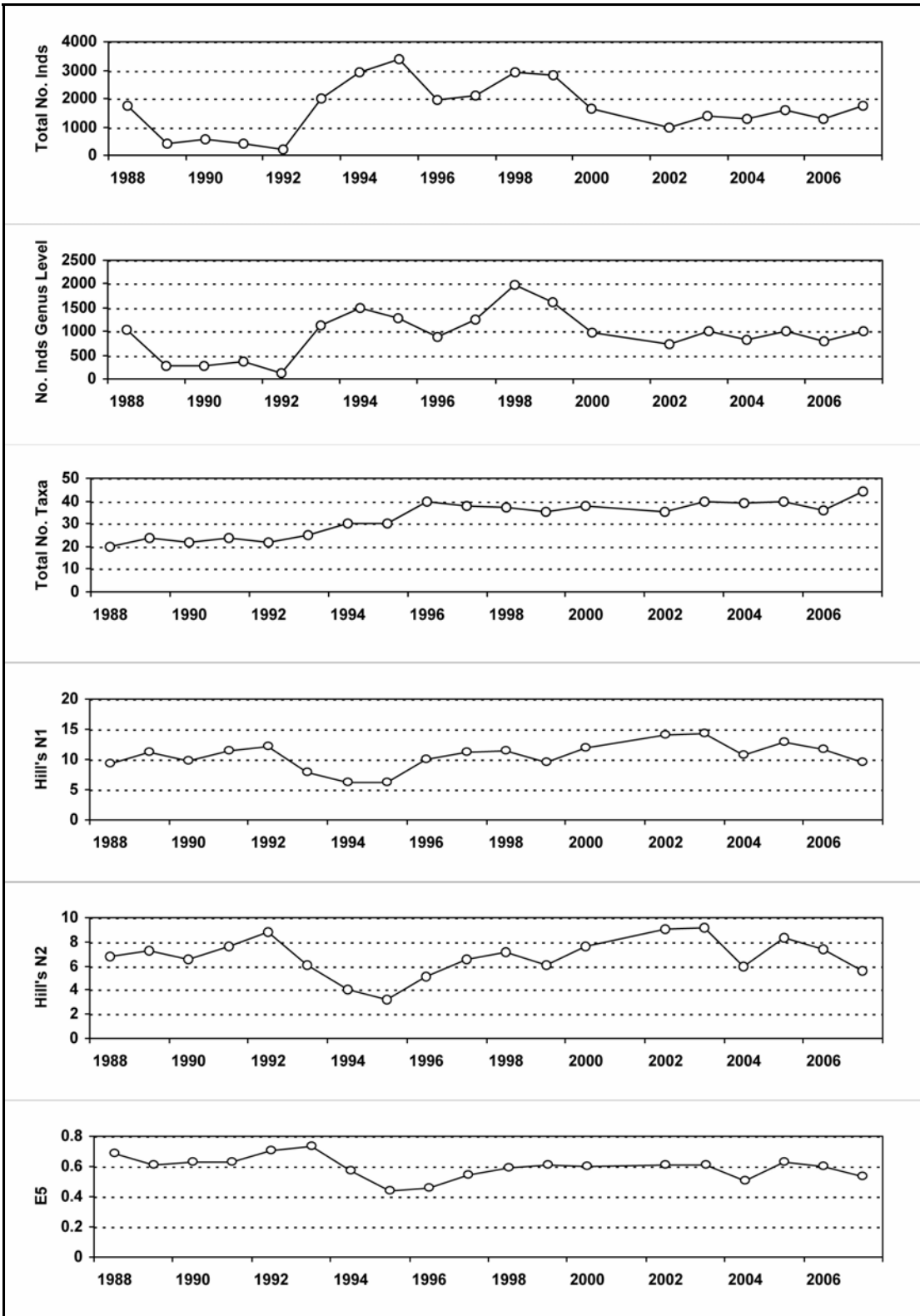
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	5.71	18.50	33.77	64.52	254.50	19.52	151.30	2.09	0.93	275.70	73.59	44.63	6.42	125.30
07-08 mean	5.09		30.79	63.29	234.25	18.75	158.66			255.77	73.56	46.76		
07-08 stdDev			3.48	2.71	4.94	2.06	20.79			5.87	1.20	0.62		

7.14.2 Macroinvertebrate data

7.14.2.1 Percentage abundance summary, Narrator Brook



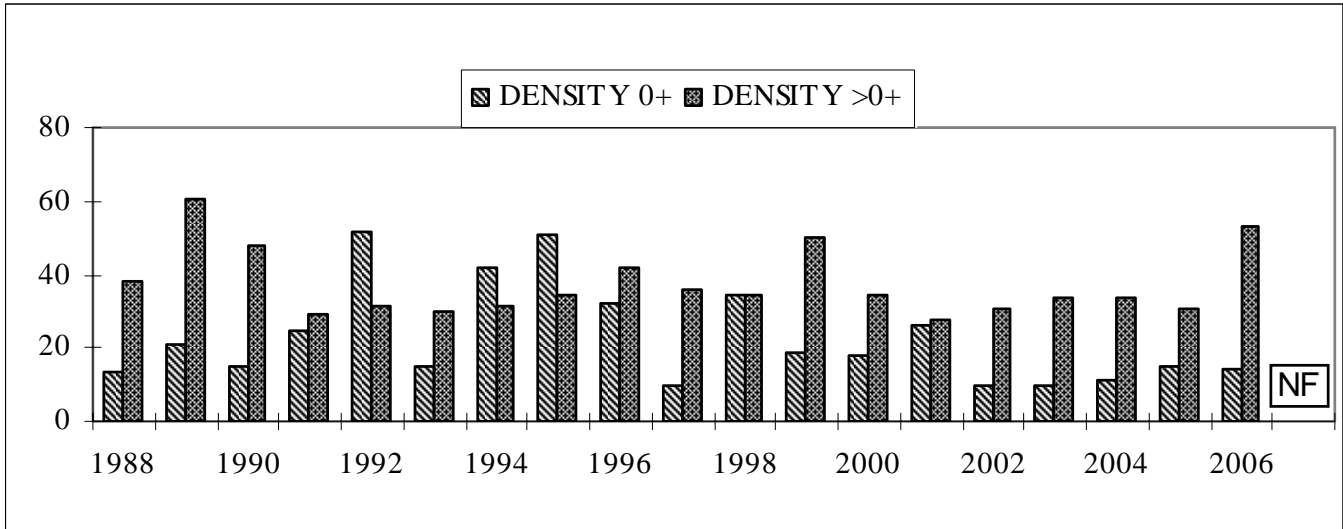
7.14.2.2 Summary statistics, Narrator Brook



No sampling in 2001 due to Foot and Mouth restrictions.

7.14.3 Fish data

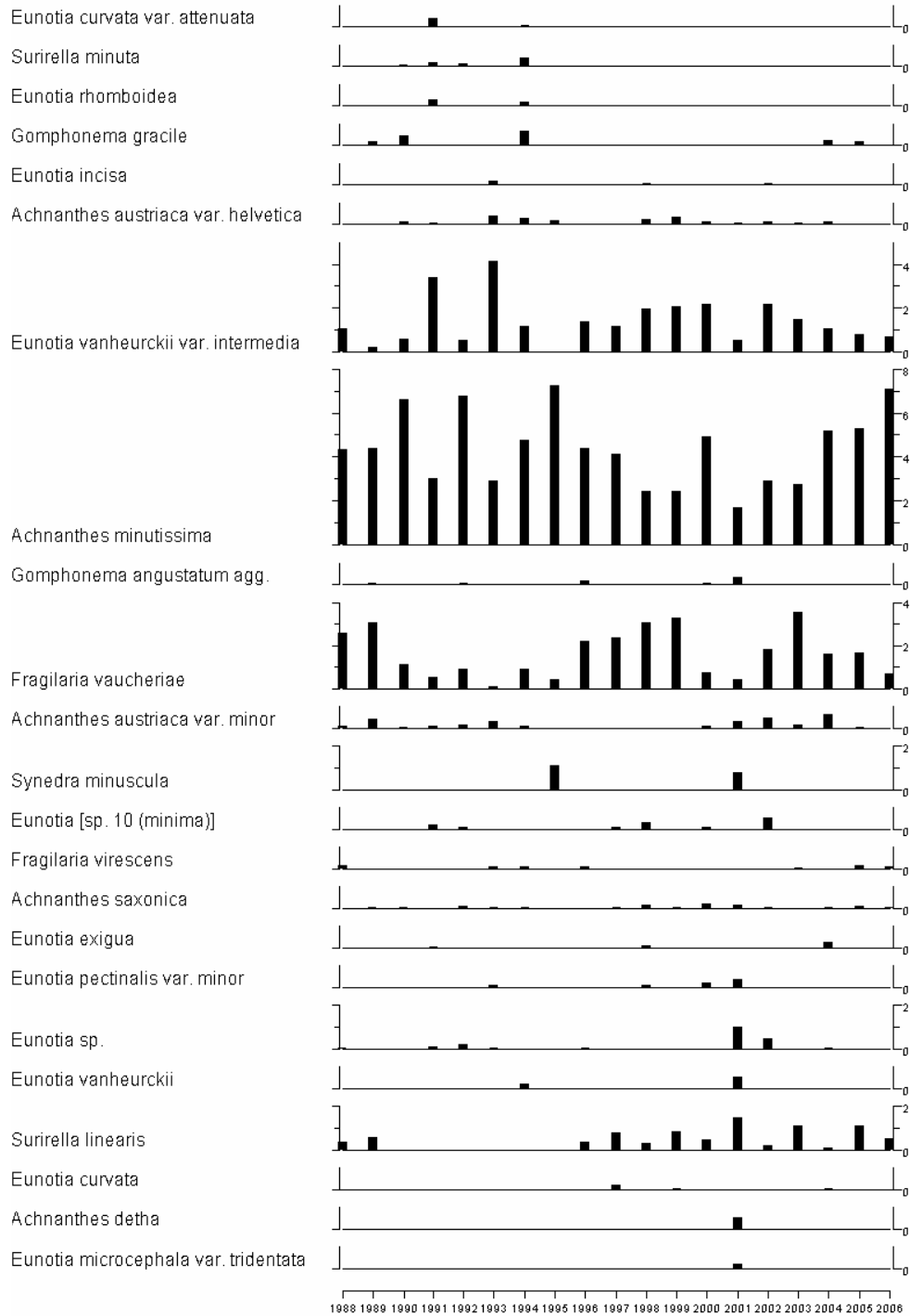
7.14.3.1 Summary of mean Trout density (numbers 100m⁻²), Narrator Brook



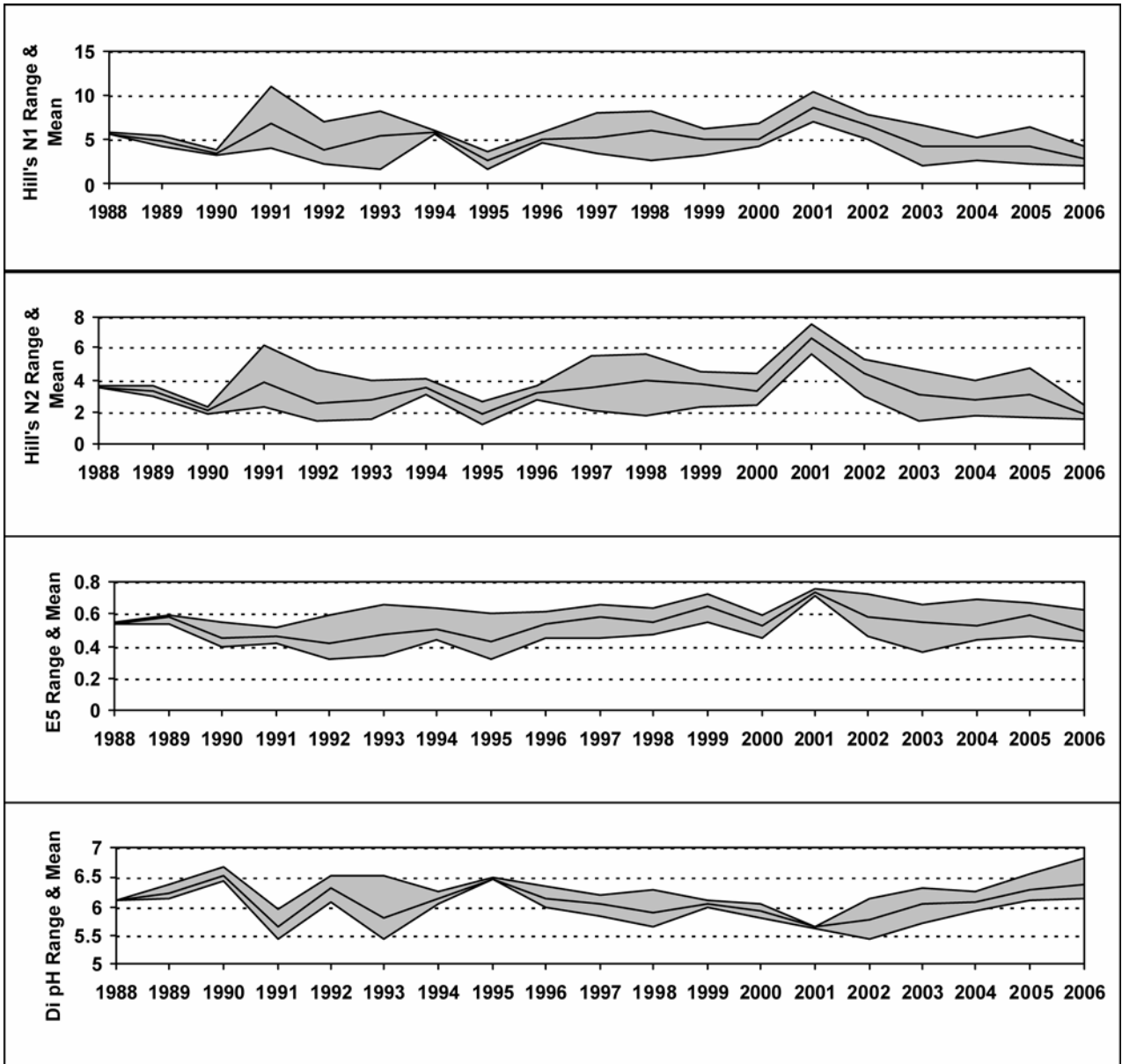
No fishing in 2007 due to funding cuts.

7.14.4 Epilithic diatom data

7.14.4.1 Percentage abundance summary, Narrator Brook



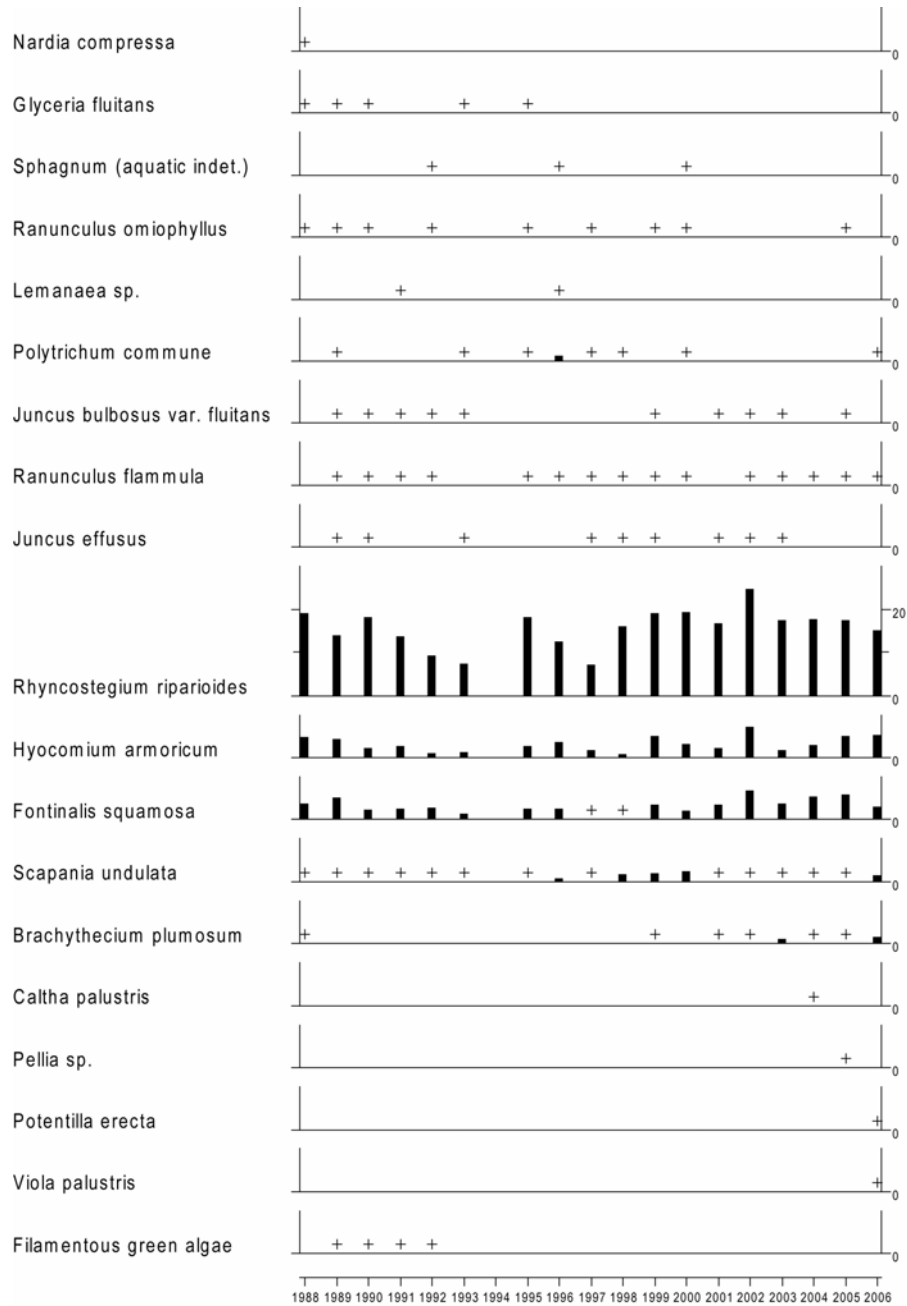
7.14.4.2 Summary statistics, Narrator Brook



No diatom sampling in 2007 due to funding cuts.

7.14.5 Aquatic macrophyte data, Narrator Brook

Percentage Species Cover

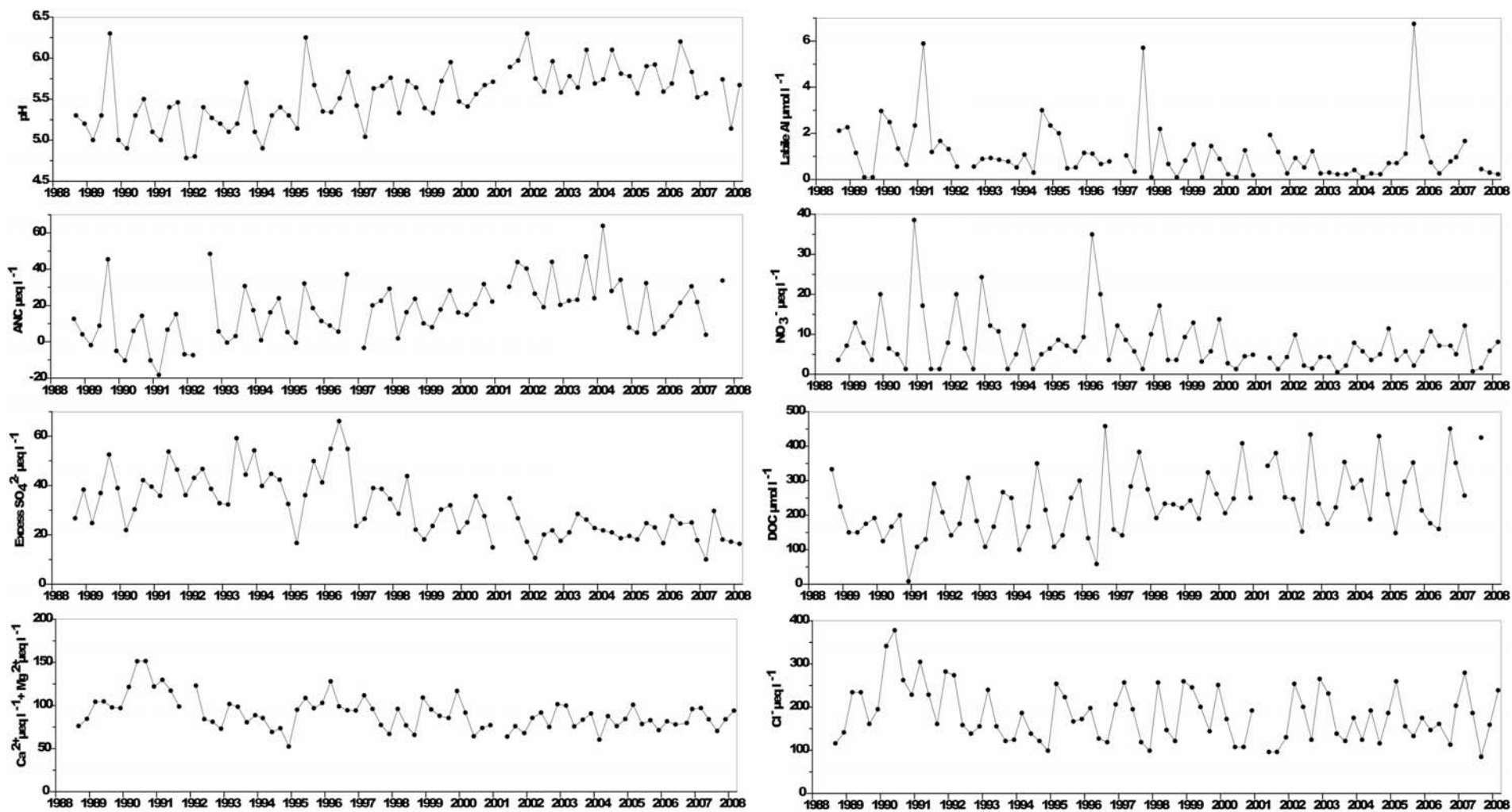


+ Represents <0.25% abundance

No macrophyte sampling in 2007 due to funding cuts.

7.15 Llyn Llago

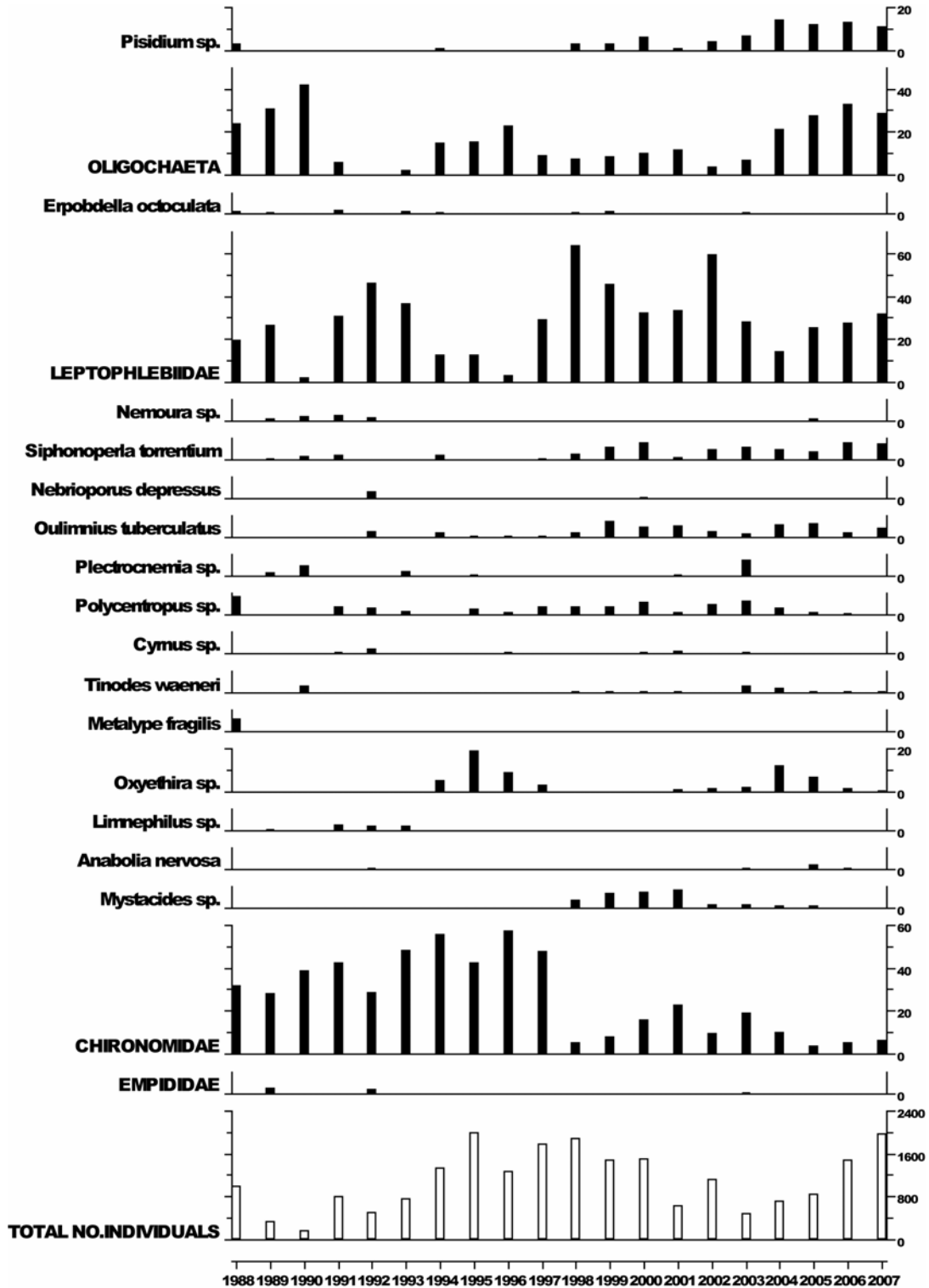
7.15.1 Spot sampled chemistry data



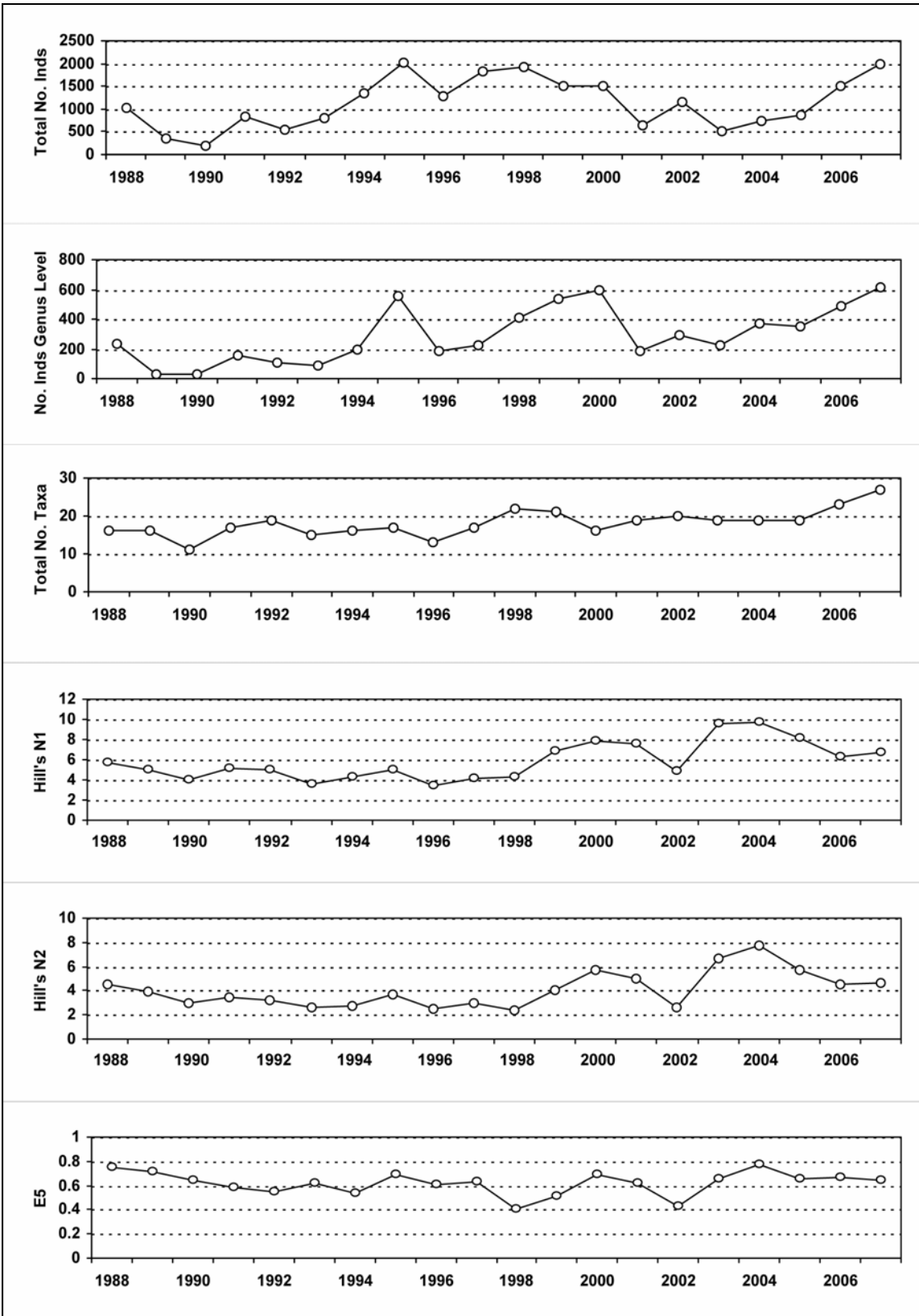
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca^{2+}	Mg^{2+}	Na^+	K^+	Si	*Soluble Al	*labile Al	Cl	SO_4^{2-}	Excess SO_4^{2-}	NO_3^-	DOC
mean 1st 5 yrs	5.23	5.86	57.06	50.53	187.40	3.60	34.96	2.81	1.58	222.40	62.17	38.82	10.42	177.90
07-08 mean	5.52	33.68	42.69	40.32	150.40	4.12	28.60	1.07	0.32	167.07	38.38	20.87	4.05	424.61
07-08 std.dev	0.33		2.45	7.89	34.14	1.73	5.00	0.23	0.11	64.17	9.70	6.43	3.50	

7.15.2 Macroinvertebrate data

7.15.2.1 Percentage abundance summary, Llyn Llagi

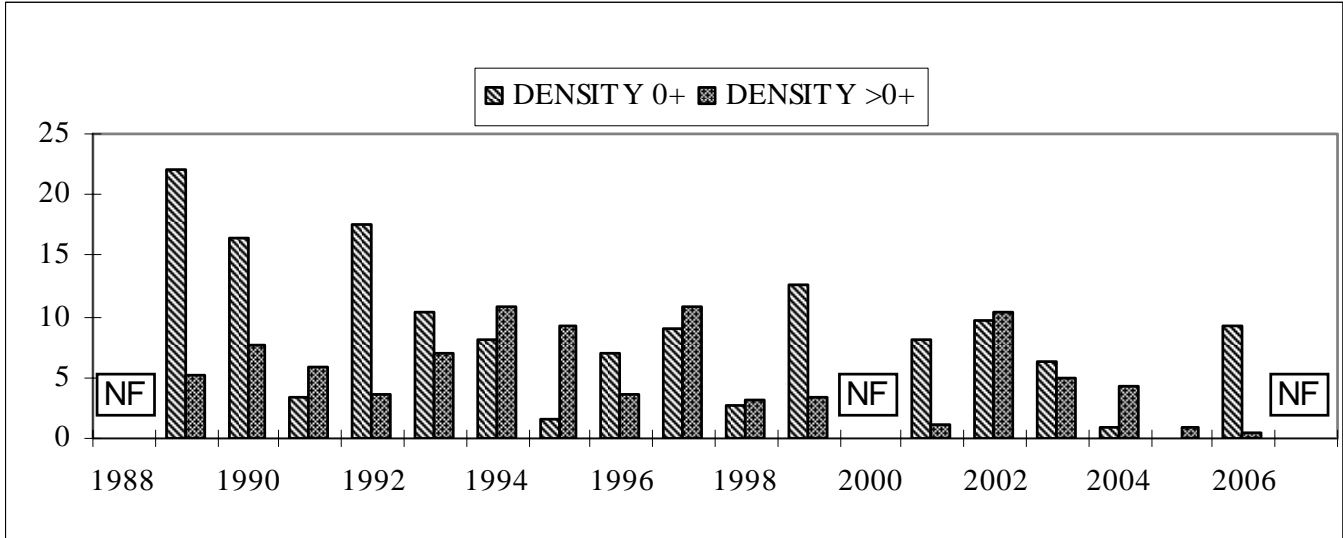


7.15.2.2 Summary statistics, Llyn Llgi



7.15.3 Fish data (for outflow stream)

7.15.3.1 Summary of mean Trout density (numbers 100m⁻²), Llyn Llgi

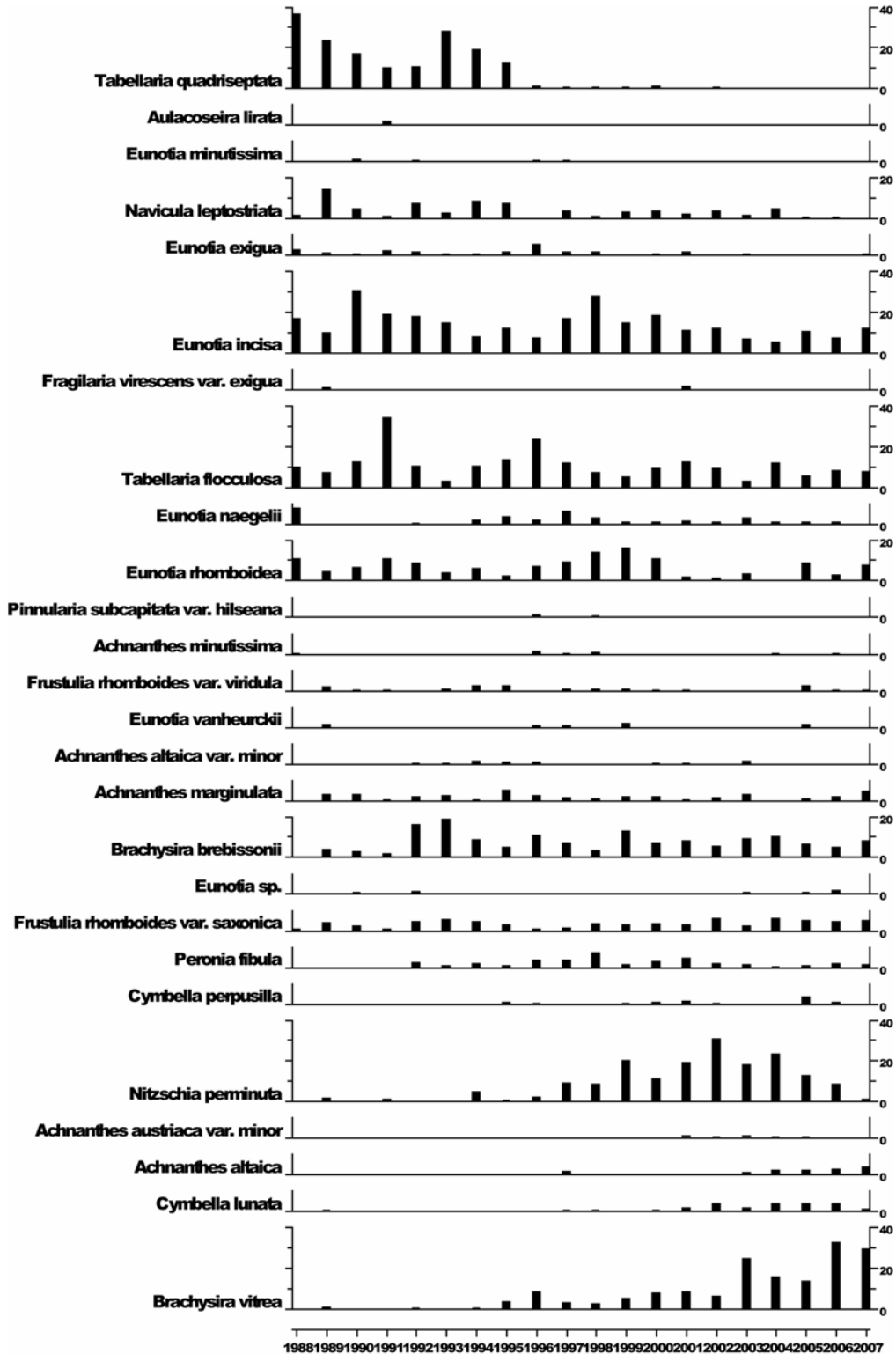


NF = Not fished

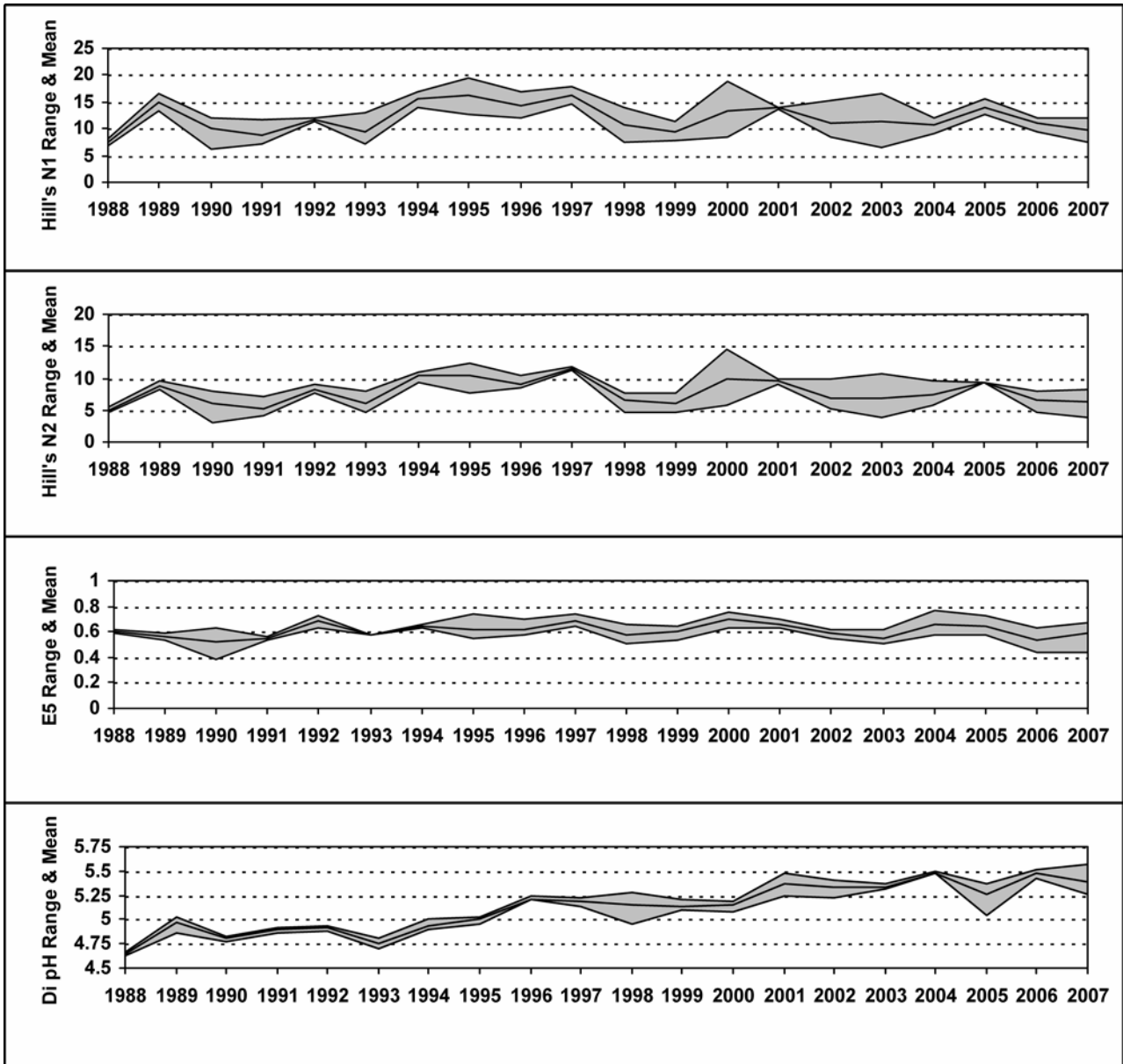
No fishing in 2007 due to funding cuts.

7.15.4 Epilithic diatom data

7.15.4.1 Percentage abundance summary, Llyn Llagi



7.15.4.2 Summary statistics, Llyn Llgi

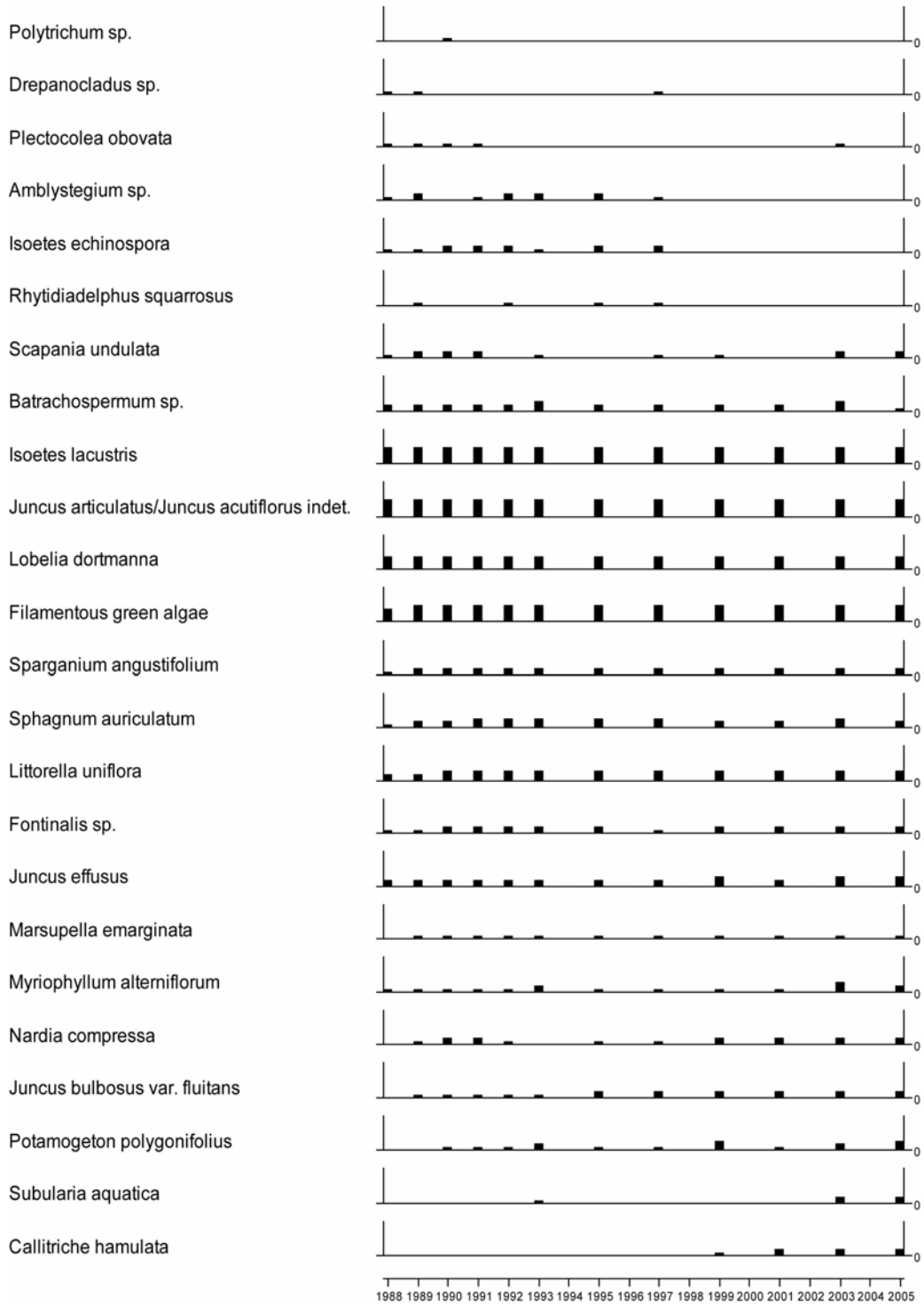


7.15.5

Aquatic macrophyte data, Llyn Llgi

11

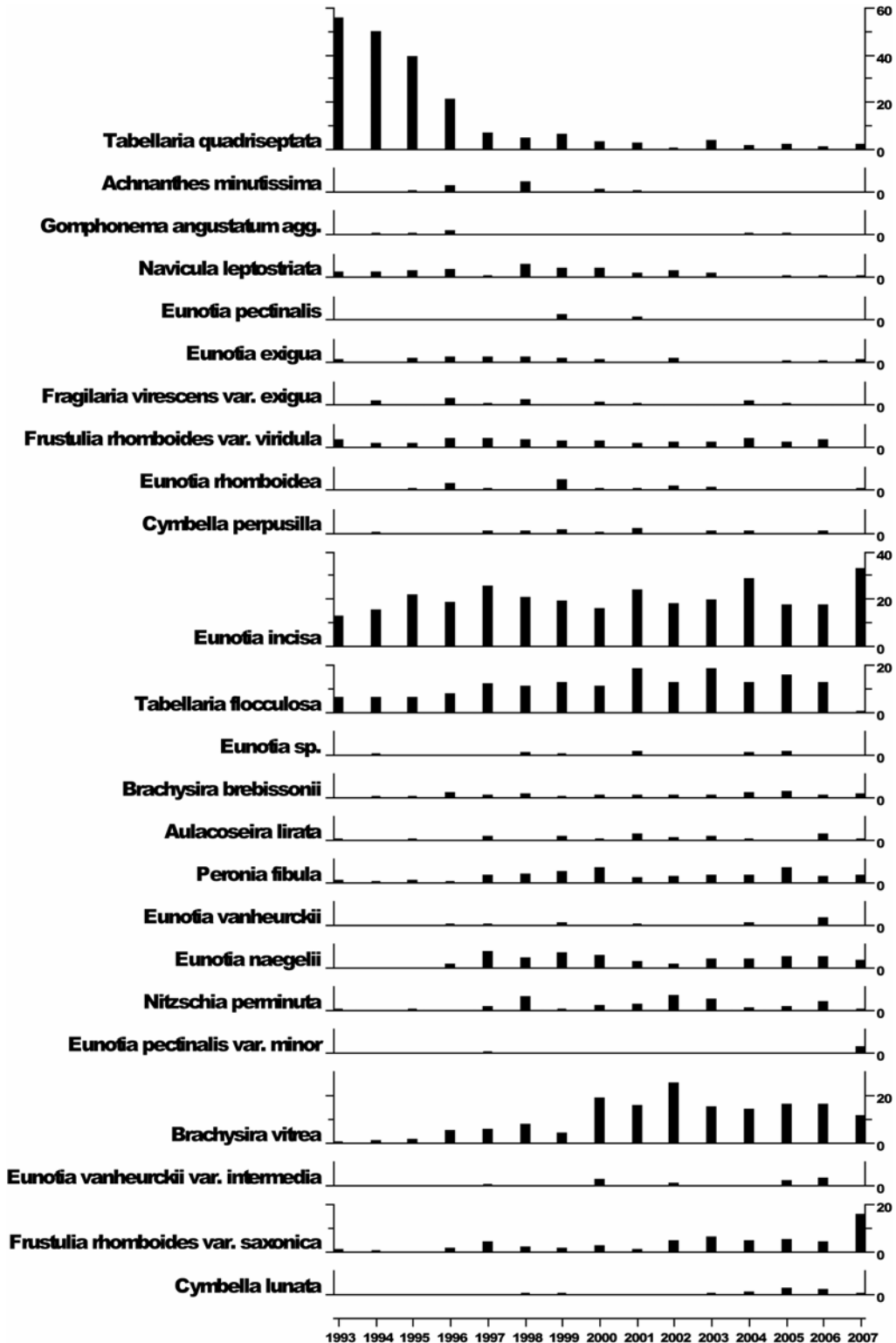
Species Scores (1-5)



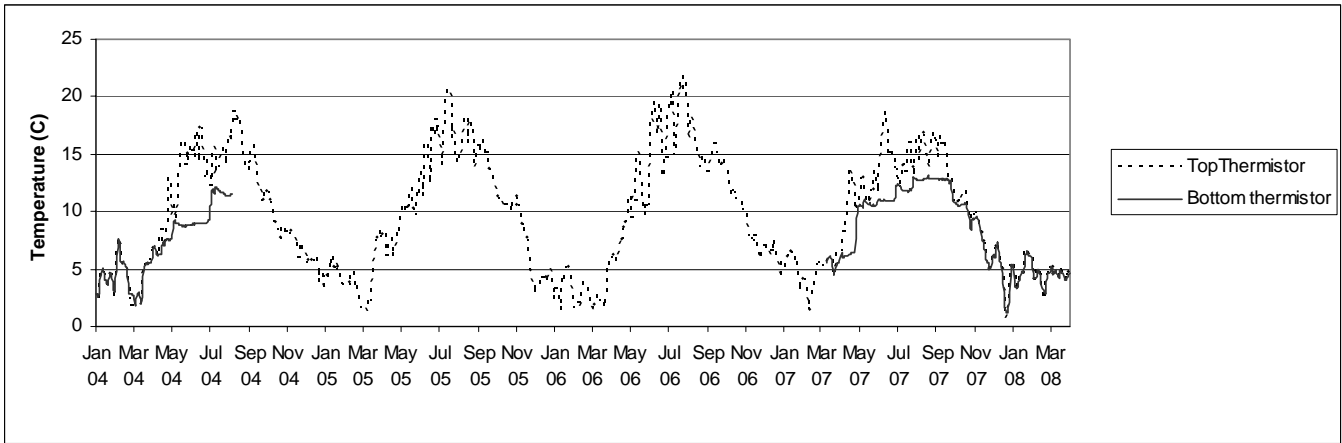
No survey in 2007 due to funding cuts

7.15.6 Sediment trap data, Llyn Llago

Relative percentage frequency of diatom taxa

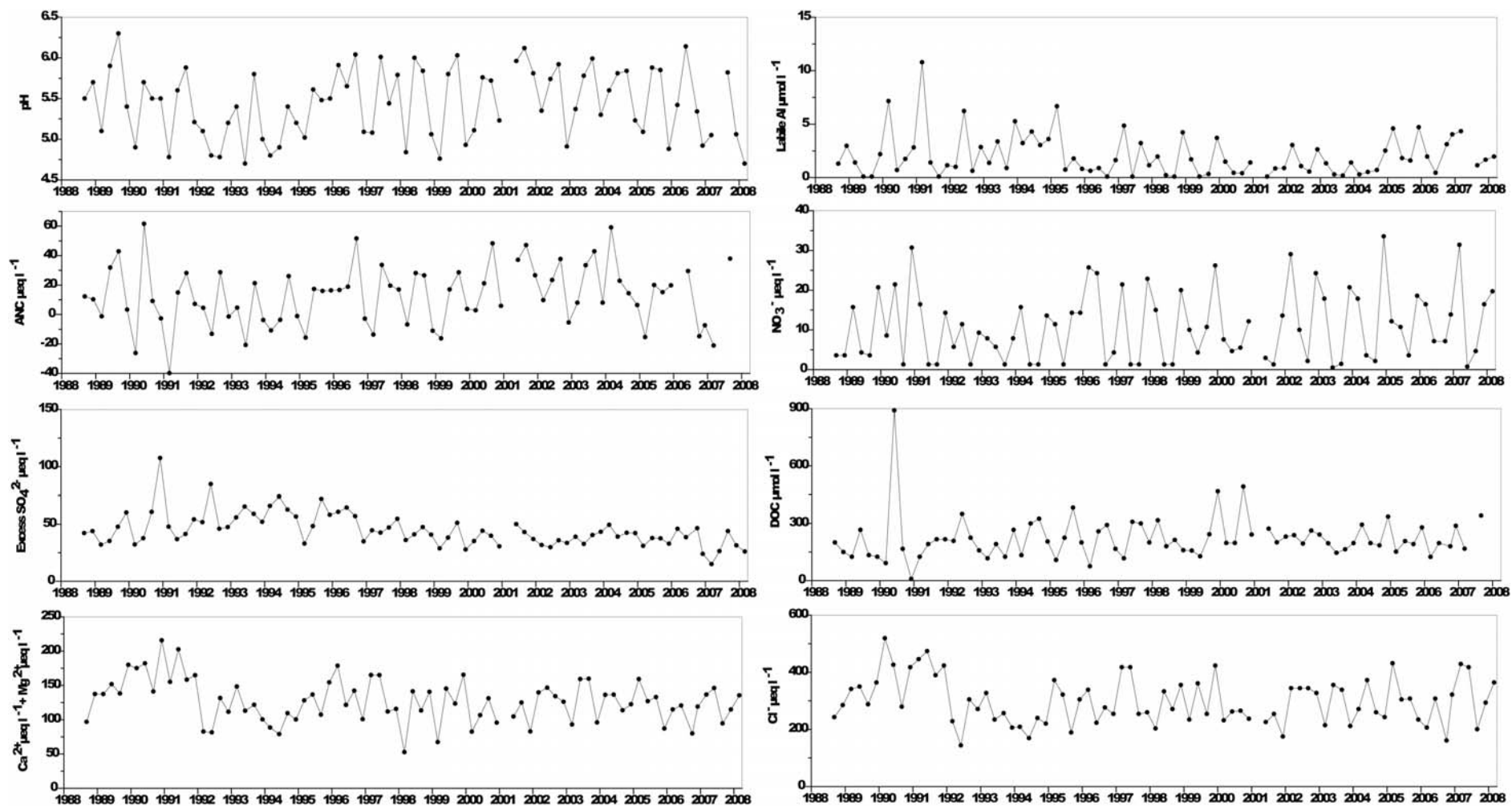


7.15.7 Thermistor data, Llyn Llagi



7.16 Llyn Cwm Mynach

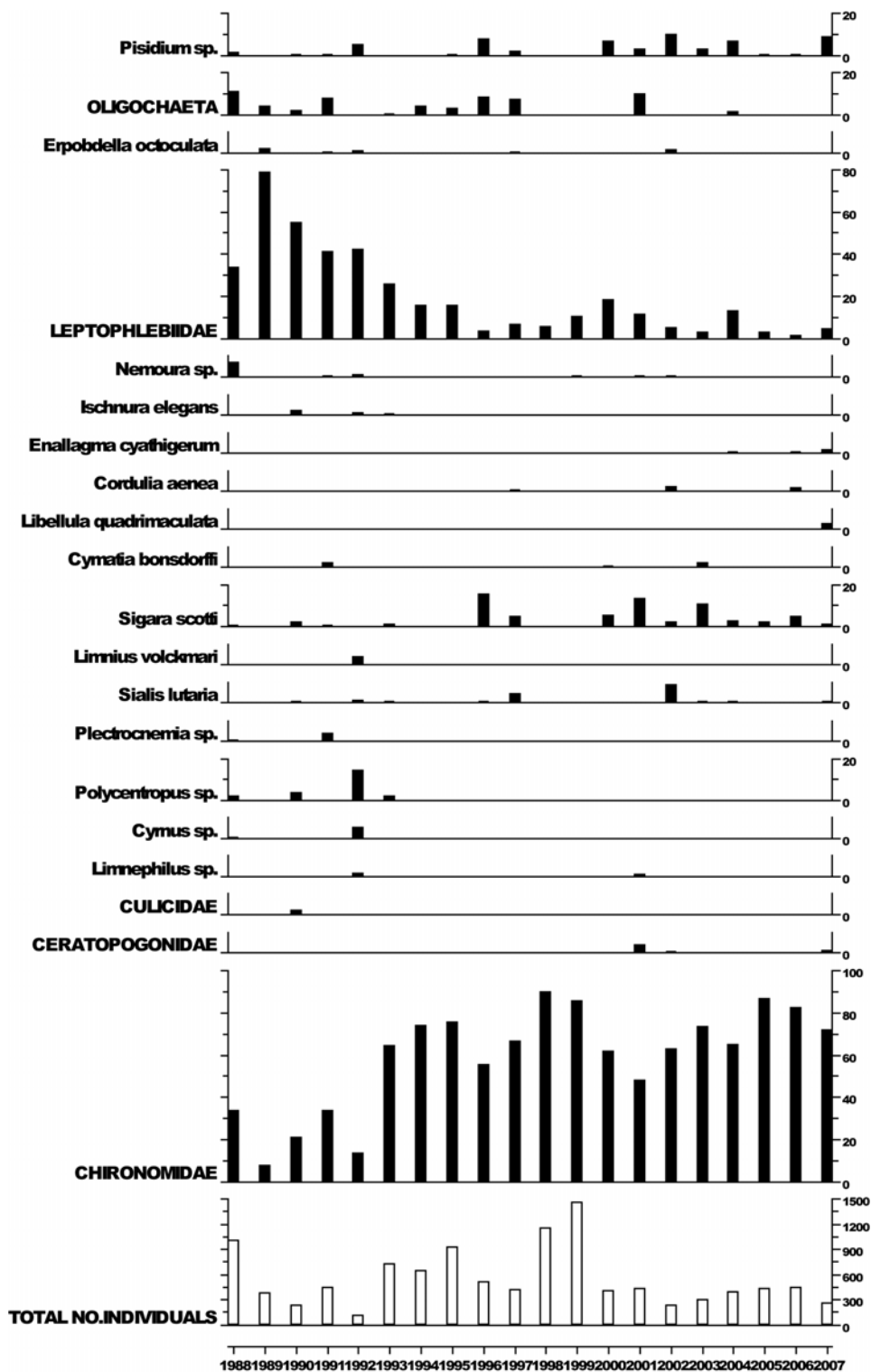
7.16.1 Spot sampled chemistry data



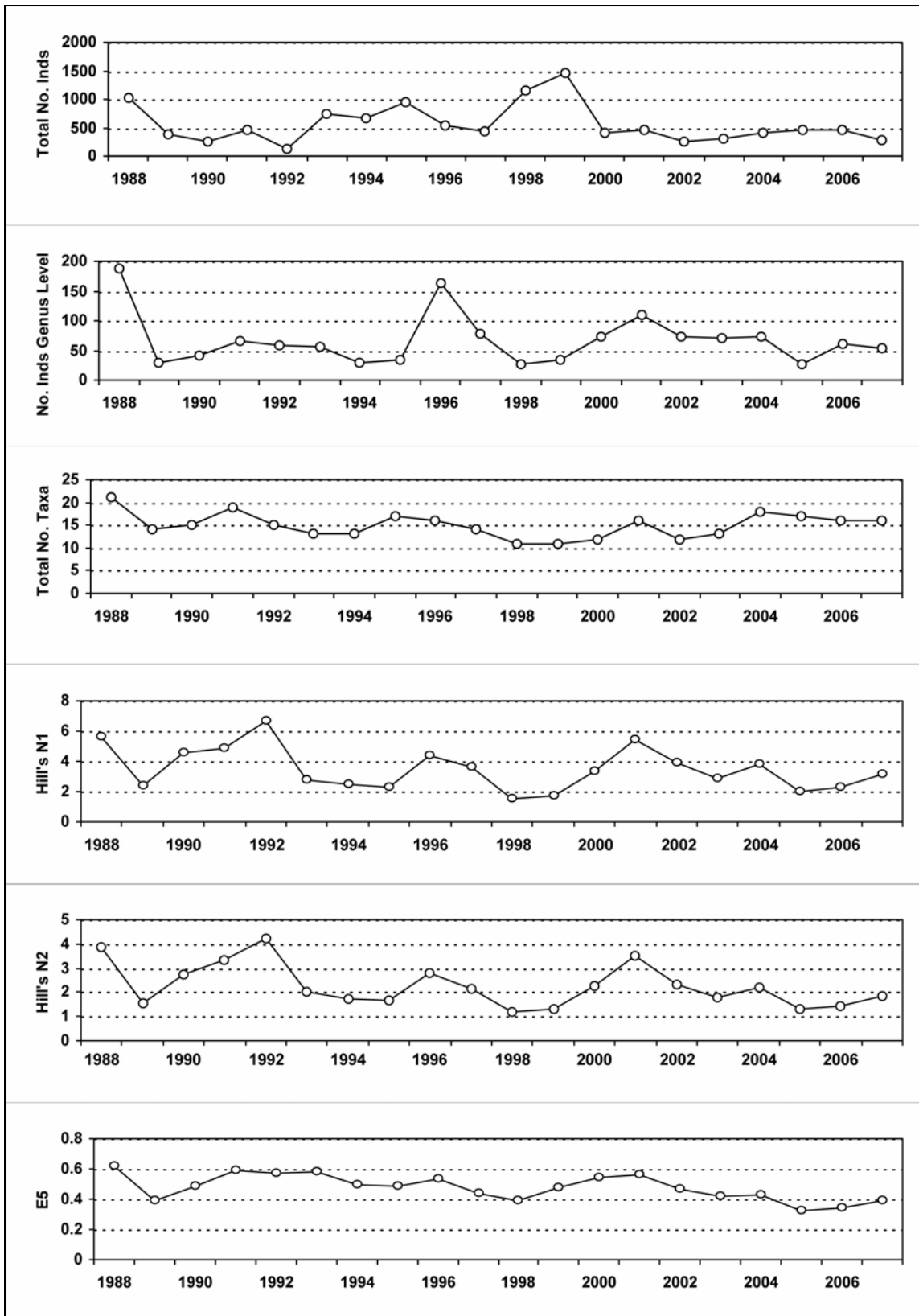
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca^{2+}	Mg^{2+}	Na^+	K^+	Si	*Soluble Al	*labile Al	Cl	SO_4^{2-}	Excess SO_4^{2-}	NO_3^-	DOC
mean 1st 5 yrs	5.38	9.18	79.13	68.86	294.50	3.41	56.77	3.94	2.42	342.60	88.16	52.17	9.59	208.80
07-08 mean	5.19	37.90	60.25	62.51	260.67	5.03	46.46	3.09	1.59	318.77	66.19	32.79	10.37	341.35
07-08 std.dev	0.57		11.10	13.22	55.94	1.26	16.10	0.53	0.41	93.93	3.32	8.61	9.12	

7.16.2 Macroinvertebrate data

7.16.2.1 Percentage abundance summary, Llyn Cwm Mynach

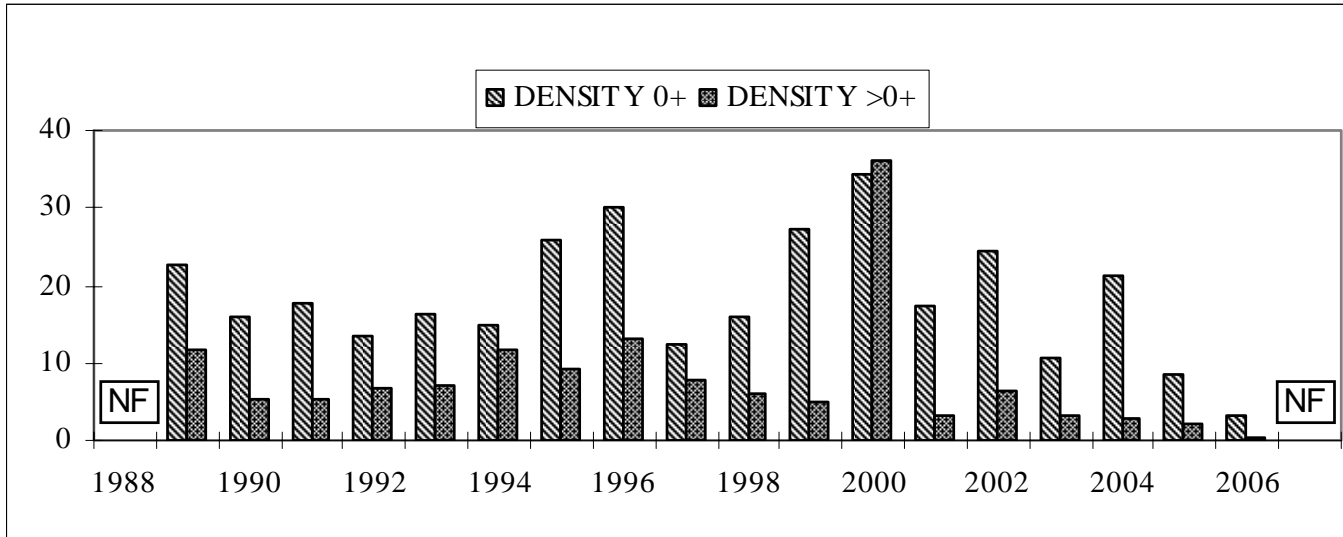


7.16.2.2 Summary statistics, Llyn Cwm Mynach



7.16.3 Fish data (for outflow stream)

7.16.3.1 Summary of mean Trout density (numbers 100m⁻²), Llyn Cwm Mynach

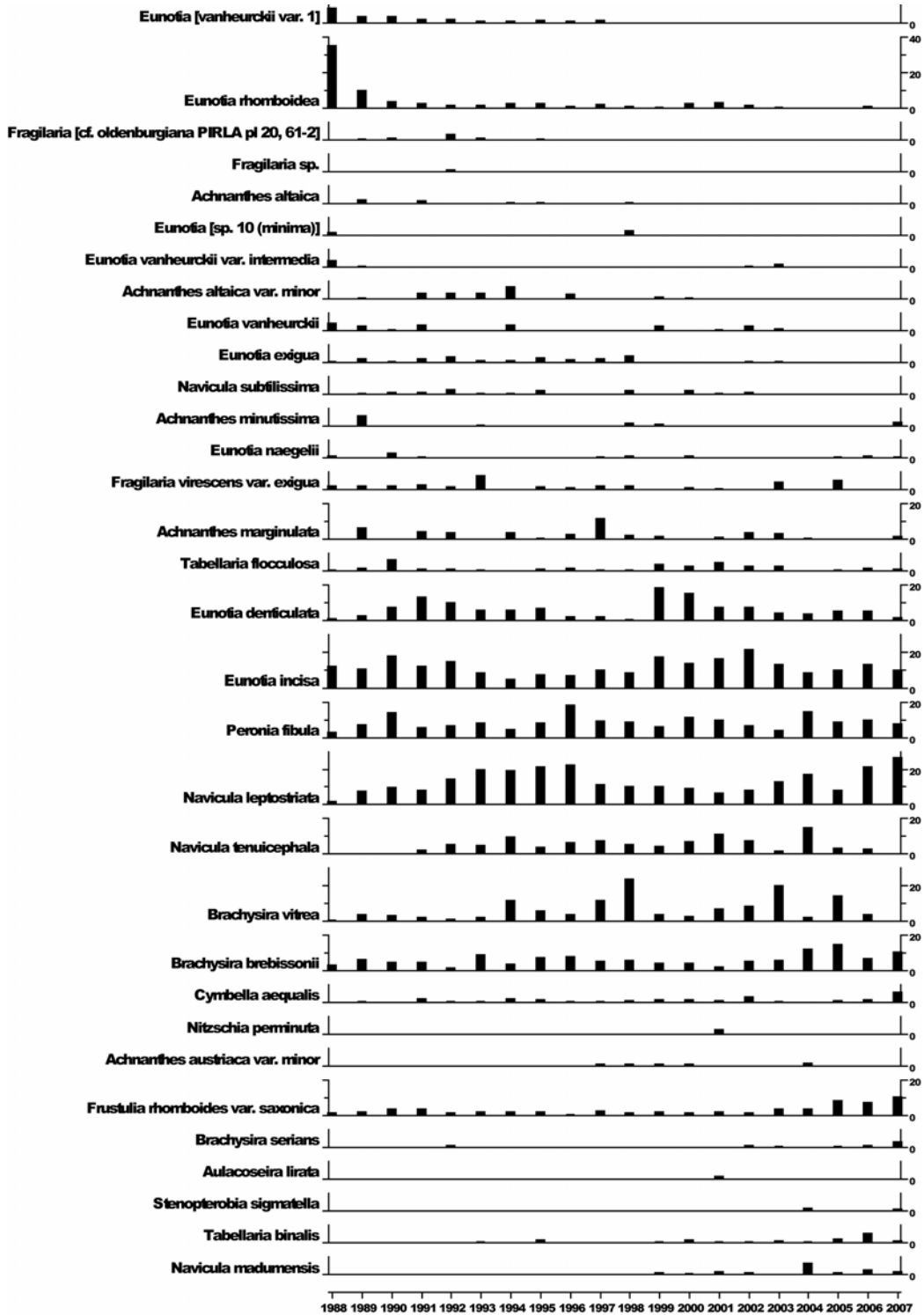


NF = Not fished

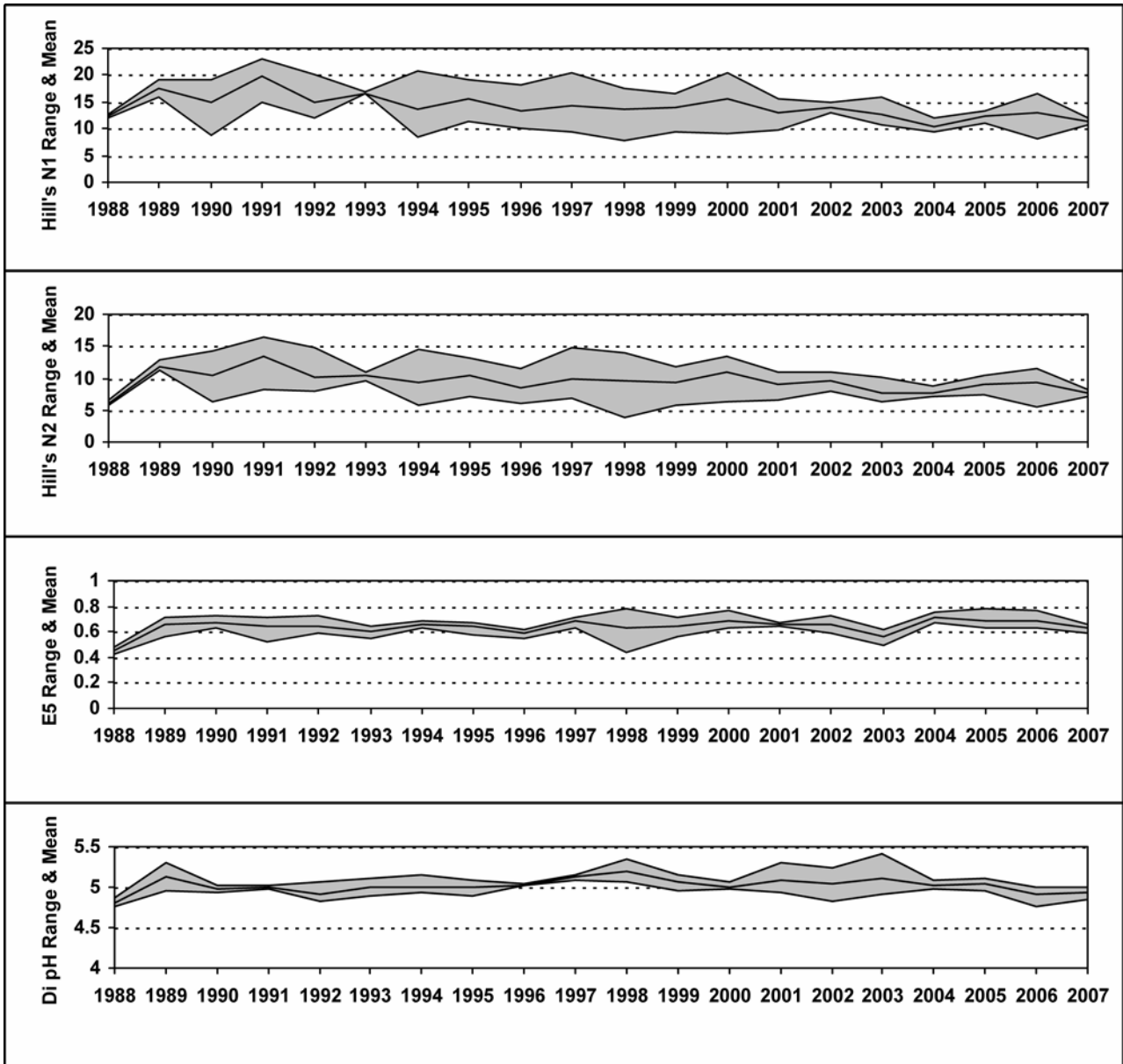
No fishing in 2007 due to funding cuts.

7.16.4 Epilithic diatom data

7.16.4.1 Percentage abundance summary, Llyn Cwm Mynach

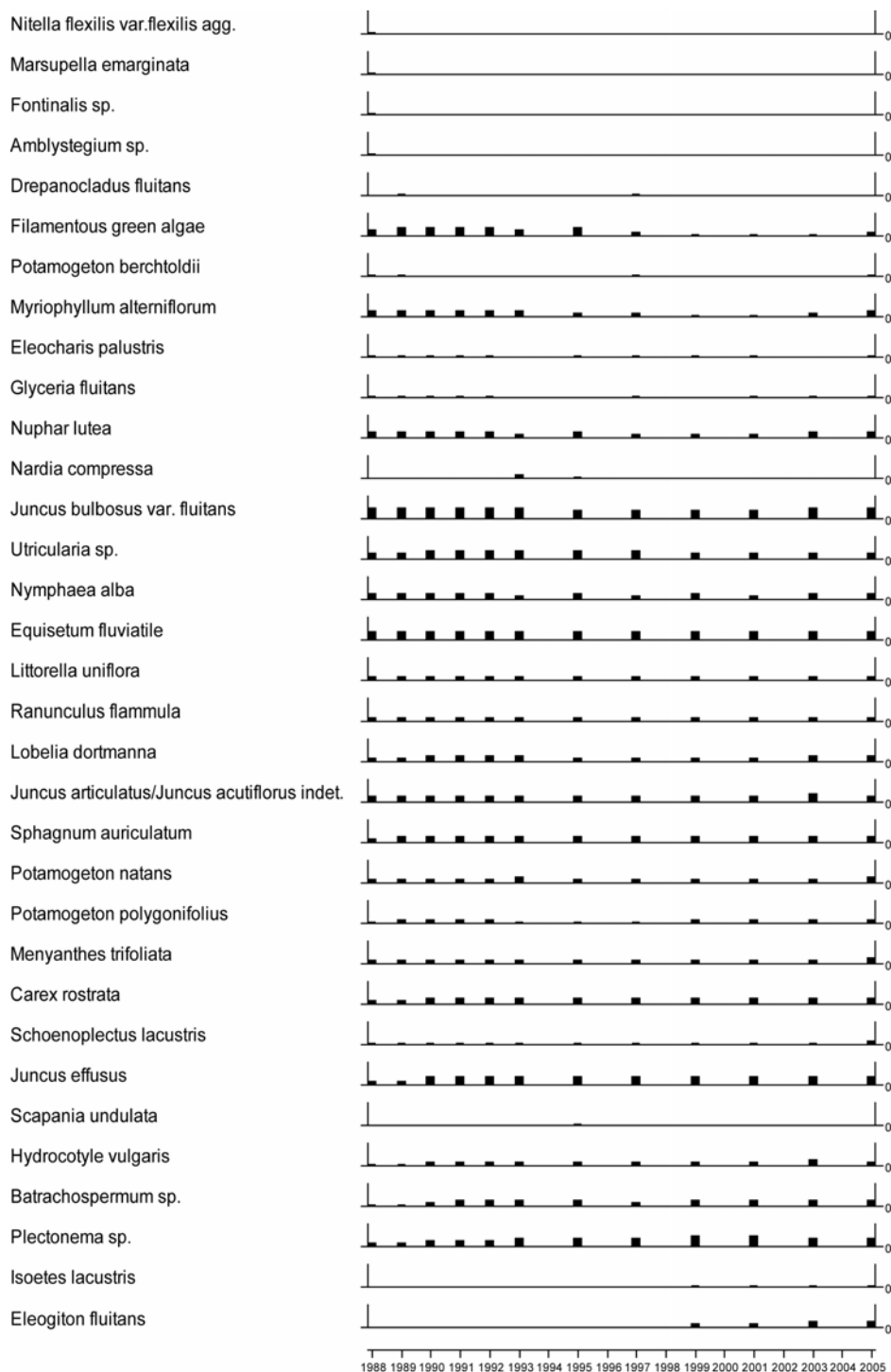


7.16.4.2 Summary statistics, Llyn Cwm Mynach



7.16.5 Aquatic macrophyte data, Llyn Cwm Mynach

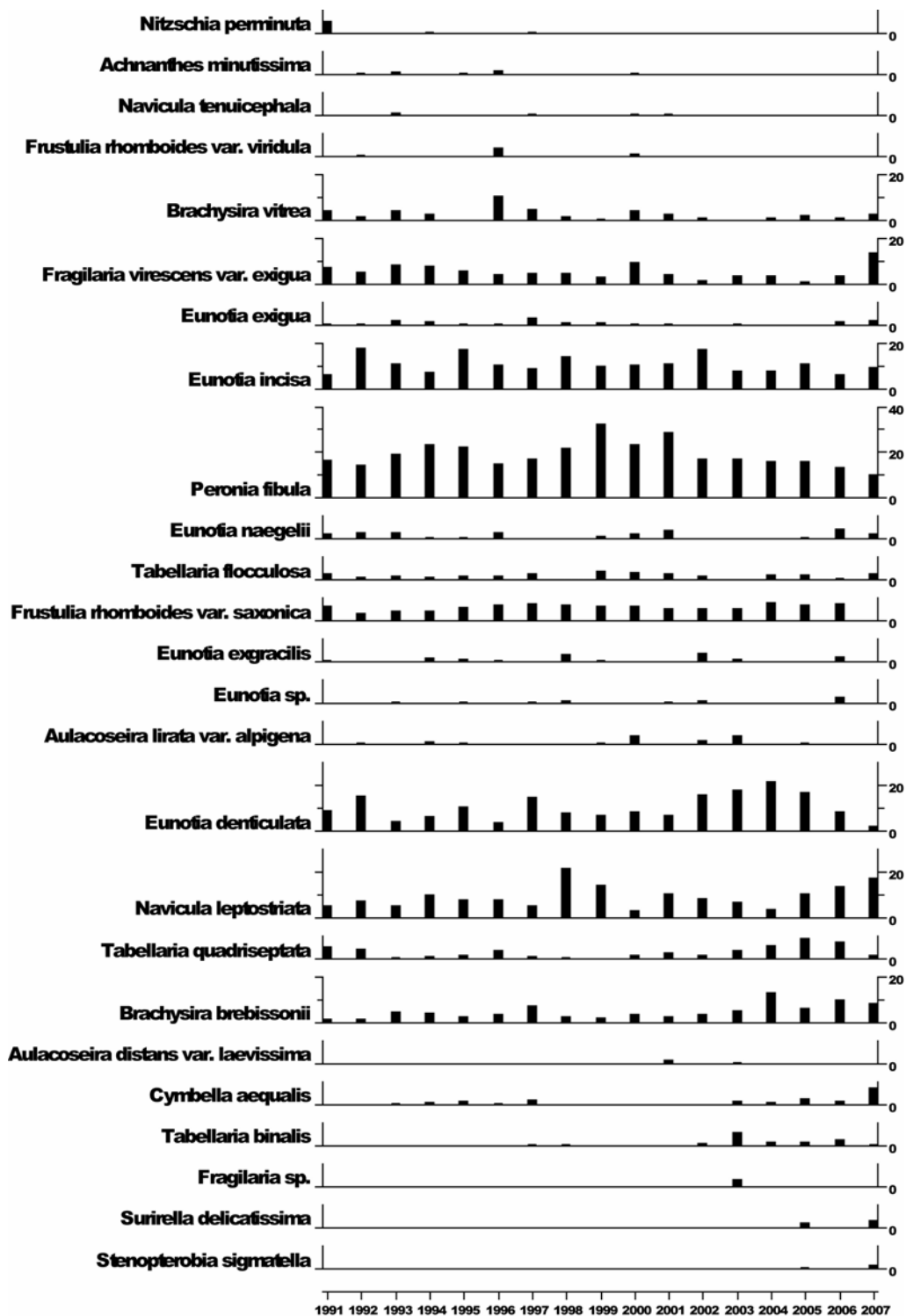
Species Scores (1-5)



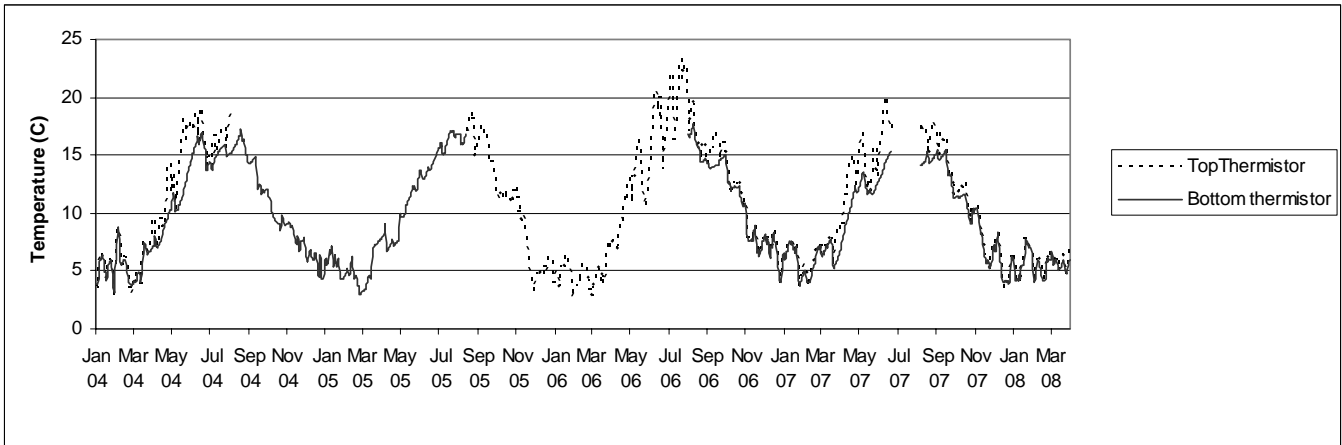
No survey in 2007 due to funding cuts

7.16.6 Sediment trap data, Llyn Cwm Mynach

Relative percentage frequency of diatom taxa

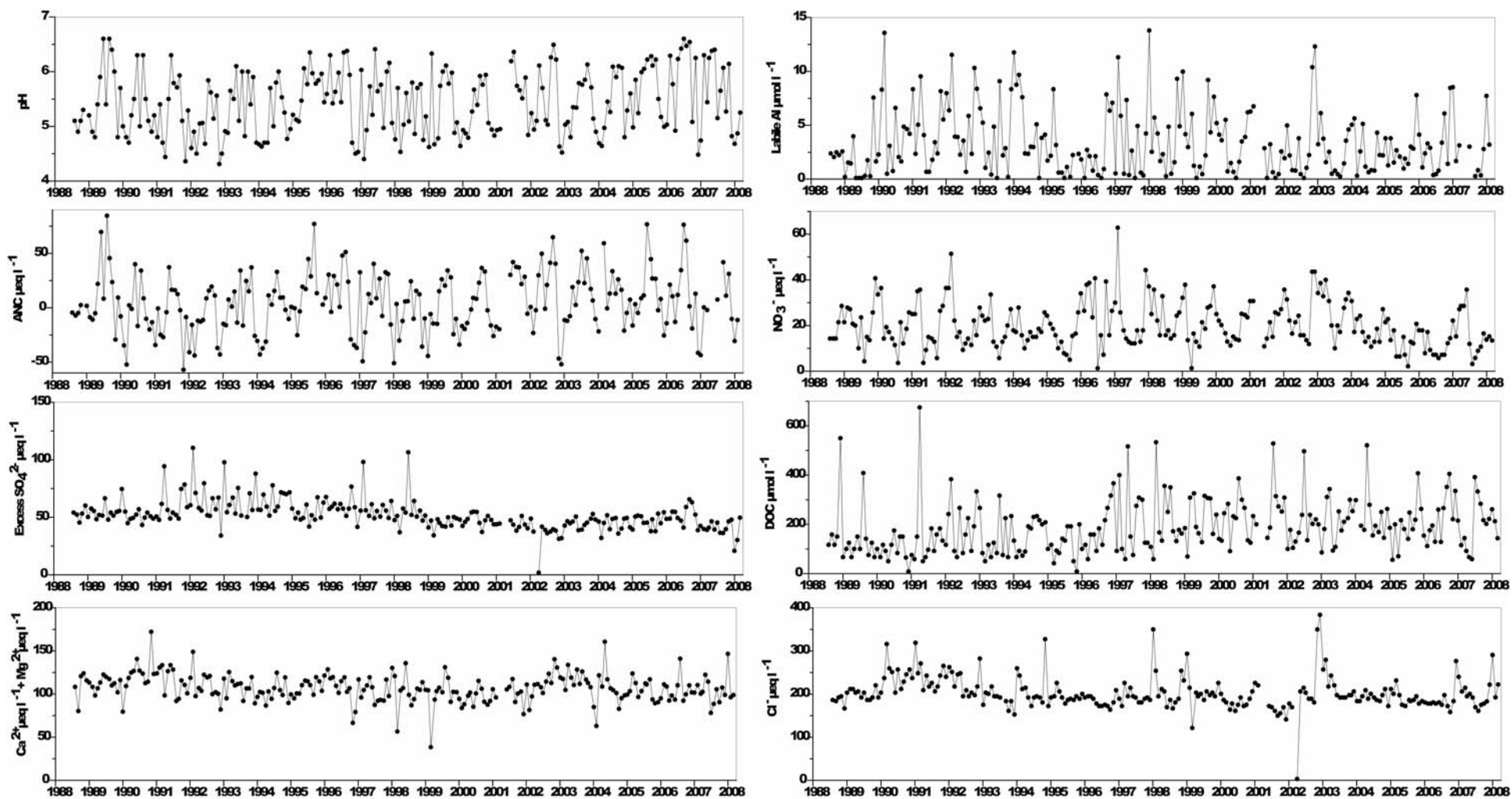


7.16.7 Thermistor data, Llyn Cwm Mynach



7.17 Afon Hafren

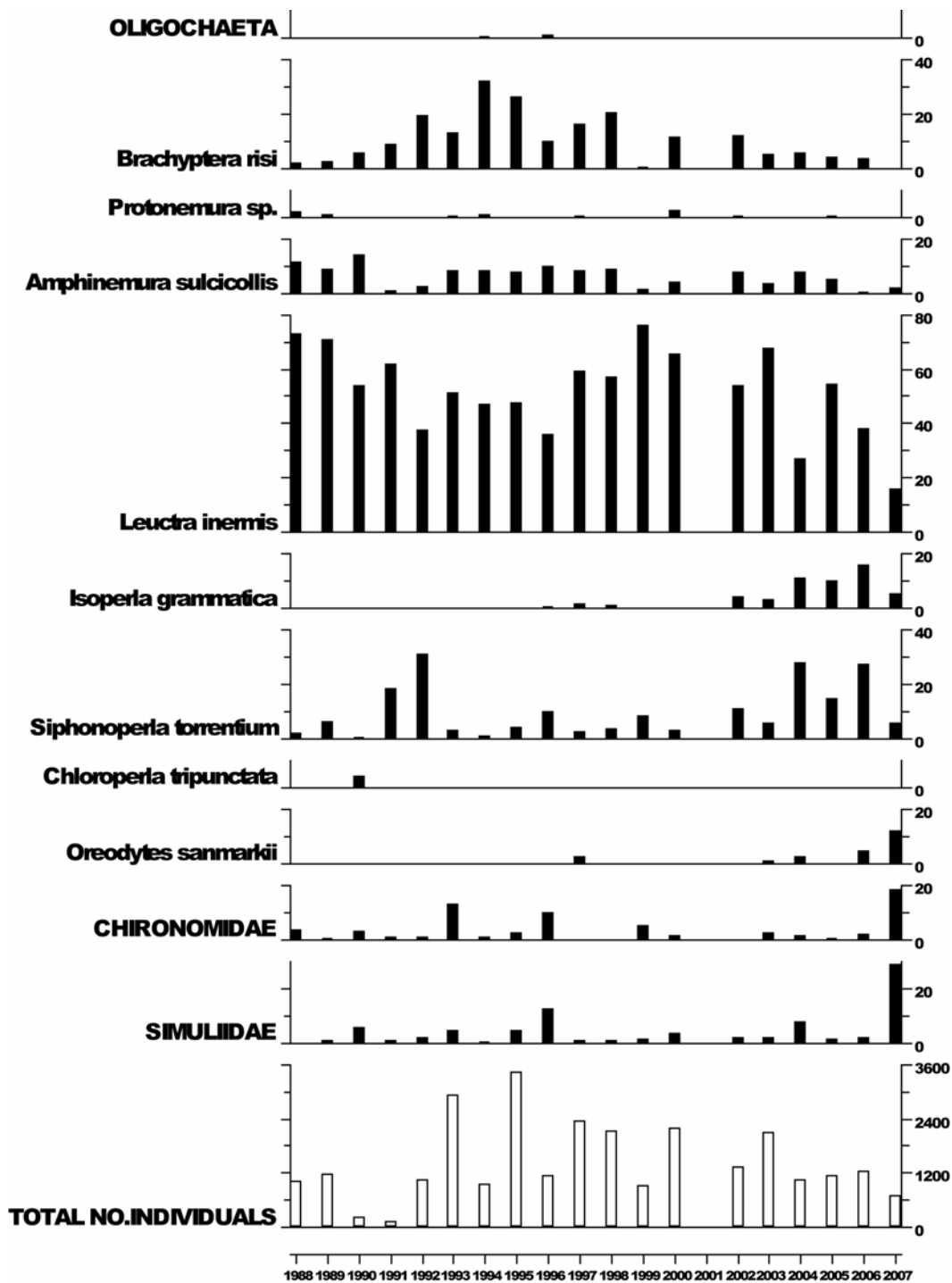
7.17.1 Spot sampled chemistry data



$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca^{2+}	Mg^{2+}	Na^+	K^+	Si	*Soluble Al	*labile Al	Cl	SO_4^{2-}	Excess SO_4^{2-}	NO_3^-	DOC
mean 1st 5 yrs	5.27	-2.57	48.08	67.32	201.00	3.20	113.80	6.38	3.83	221.80	82.70	59.41	20.45	149.30
07-08 mean	5.58	5.53	40.66	63.45	184.48	5.31	100.30	4.35	2.58	198.22	61.76	40.98	16.01	206.62
07-08 std.dev	0.65	25.35	7.10	11.99	26.27	4.16	32.25	3.53	2.60	34.62	7.76	8.53	9.91	103.61

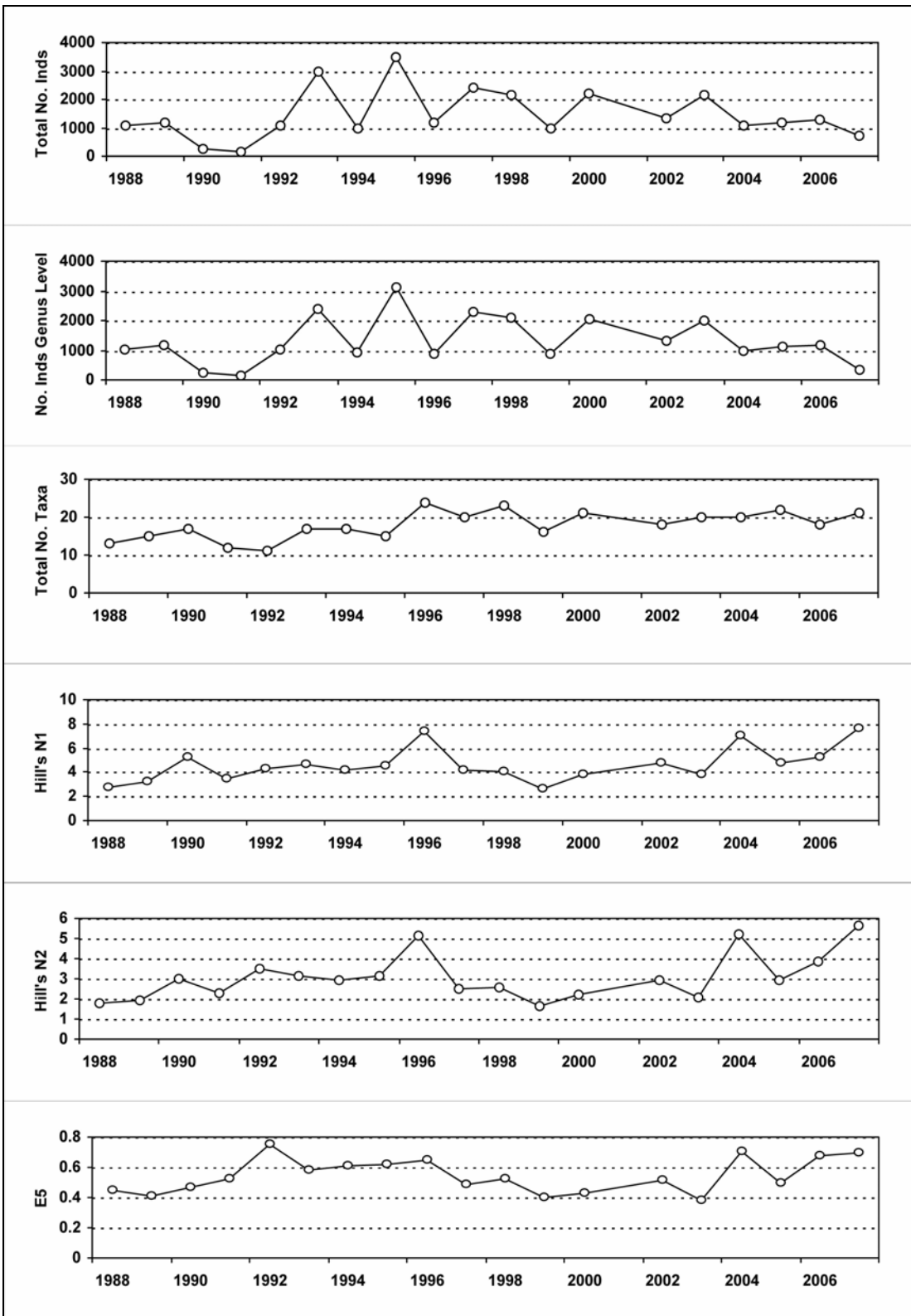
7.17.2 Macroinvertebrate data

7.17.2.1 Percentage abundance summary, Afon Hafren



No sampling in 2001 due to Foot and Mouth restrictions.

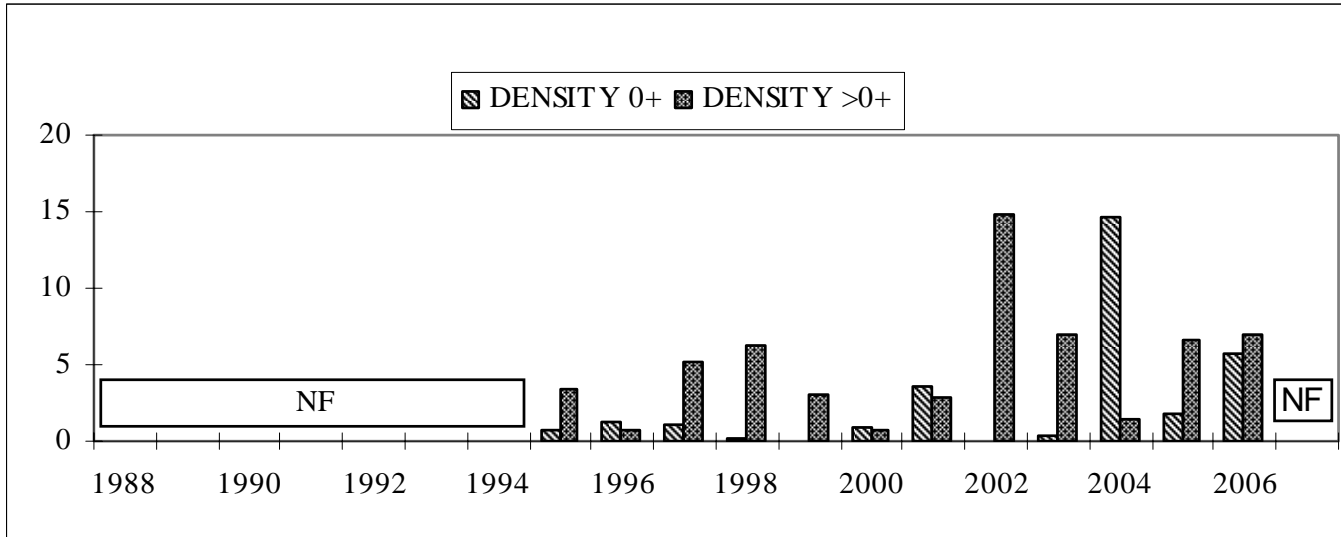
7.17.2.2 Summary statistics, Afon Hafren



No sampling in 2001 due to Foot and Mouth restrictions.

7.17.3 Fish data

7.17.3.1 Summary of mean Trout density (numbers 100m⁻²), Afon Hafren

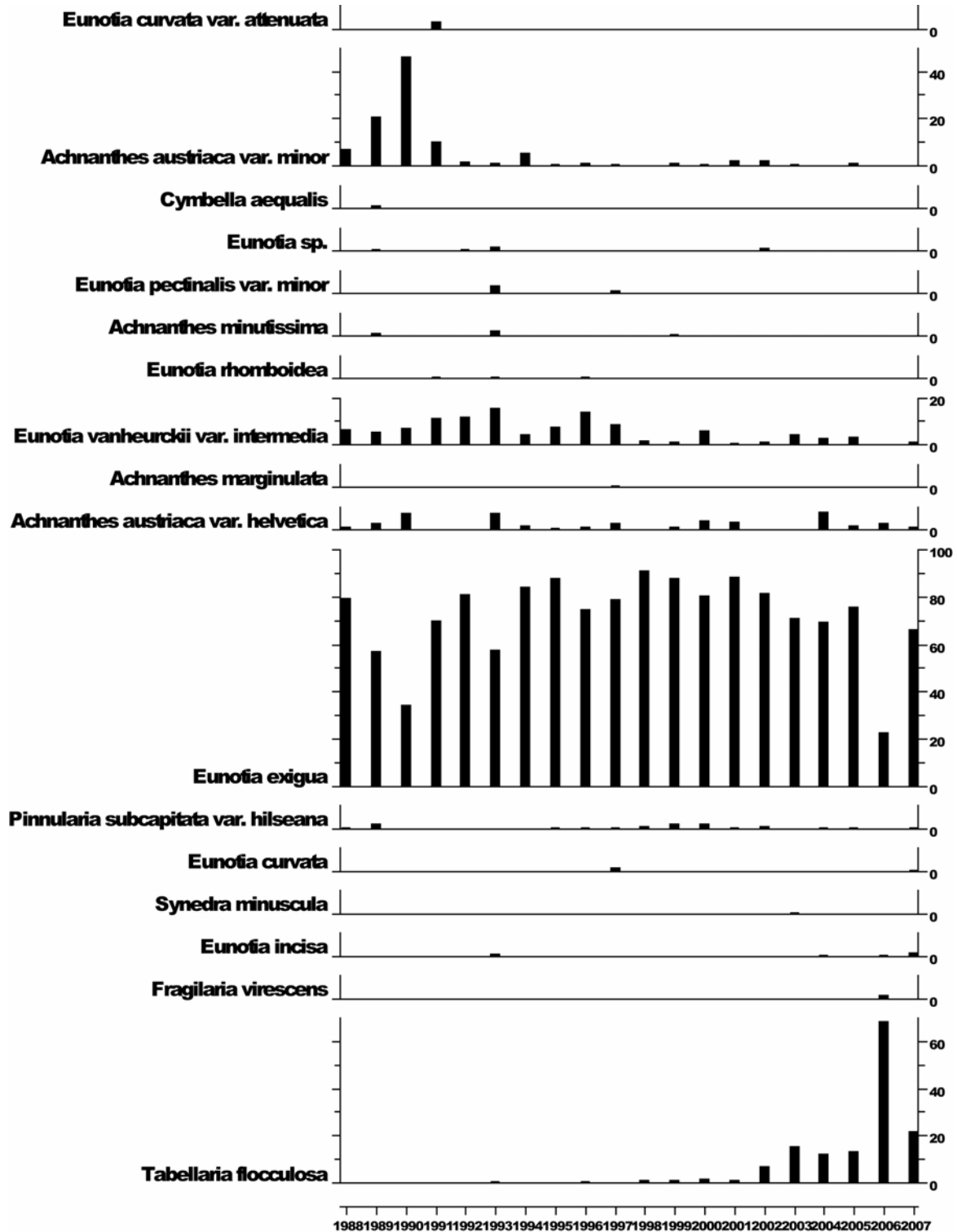


NF = Not fished

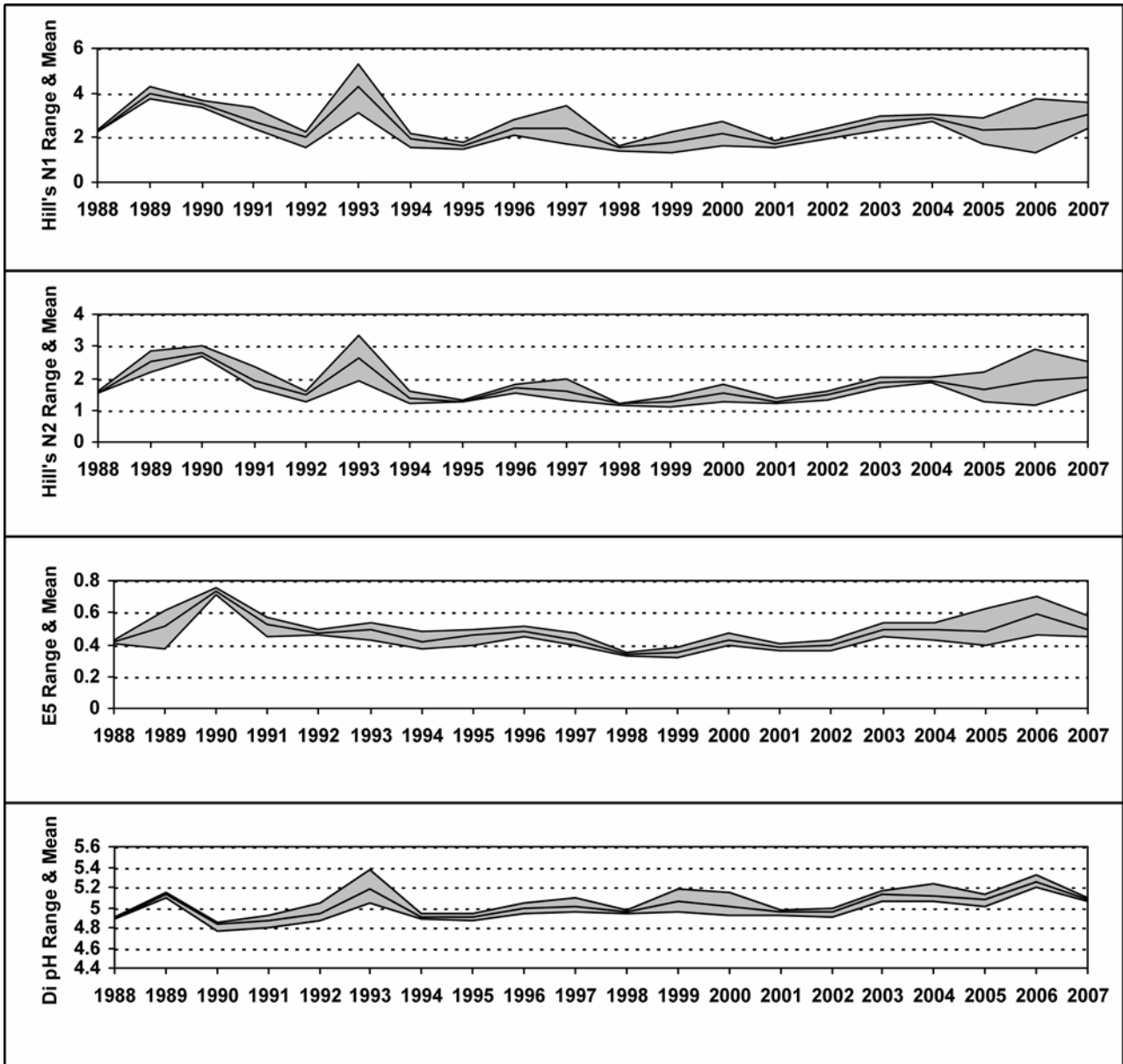
No fishing in 2007 due to funding cuts.

7.17.4 Epilithic diatom data

7.17.4.1 Percentage abundance summary, Afon Hafren

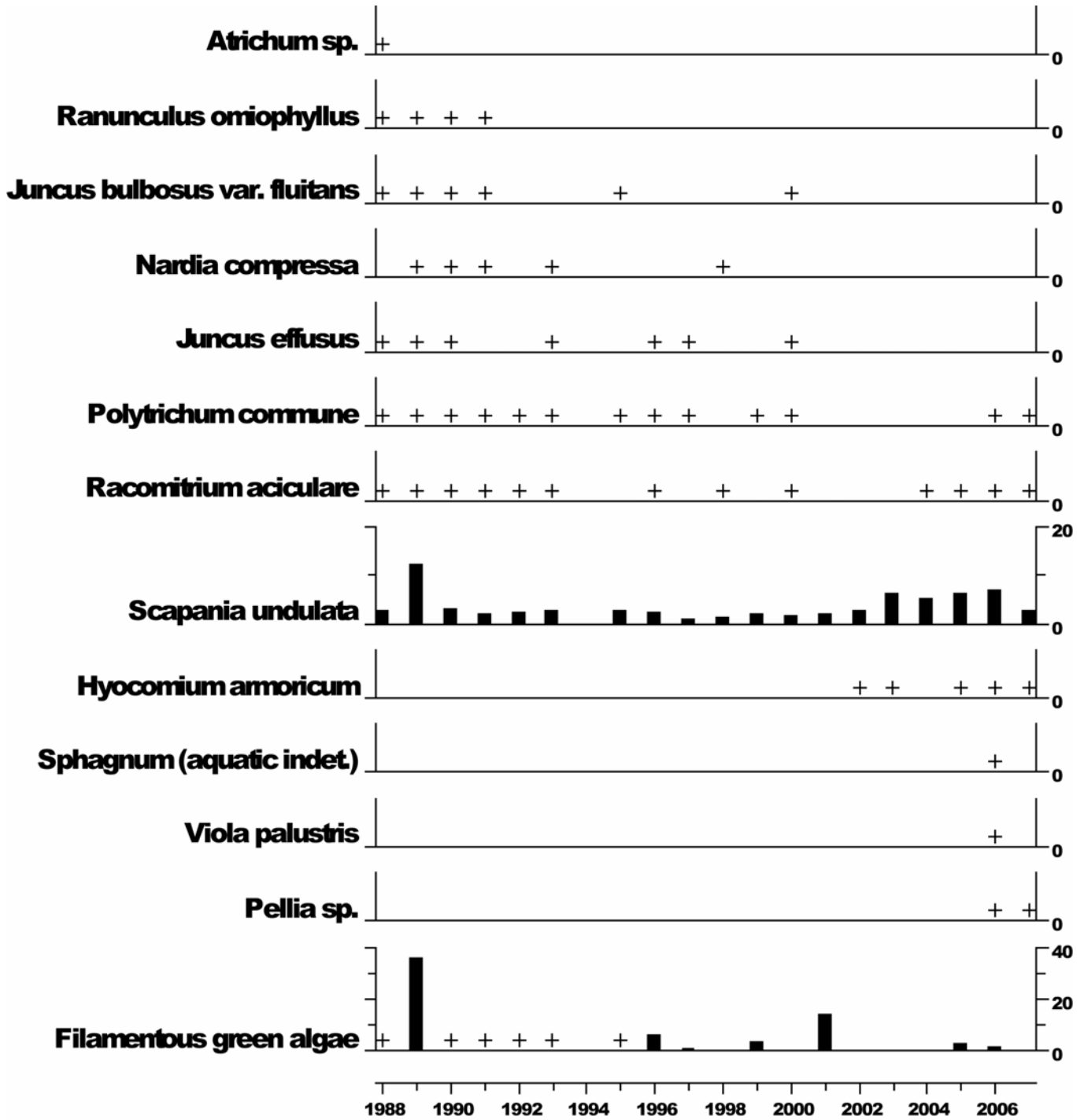


7.17.4.2 Summary statistics, Afon Hafren



7.17.5 Aquatic macrophyte data, Afon Hafren

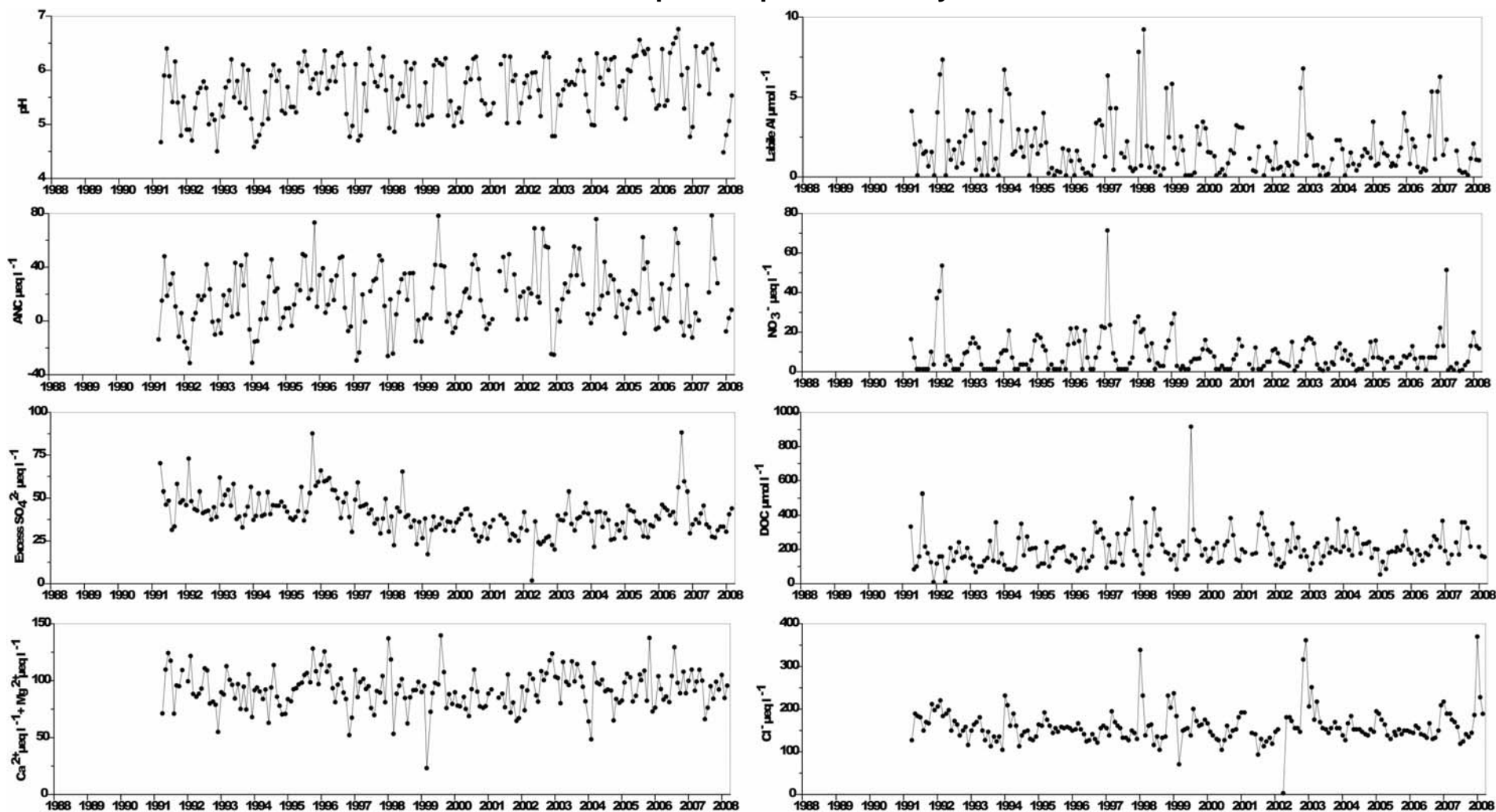
Percentage Species Cover



+ Represents <0.5% abundance

7.18 Afon Gwy

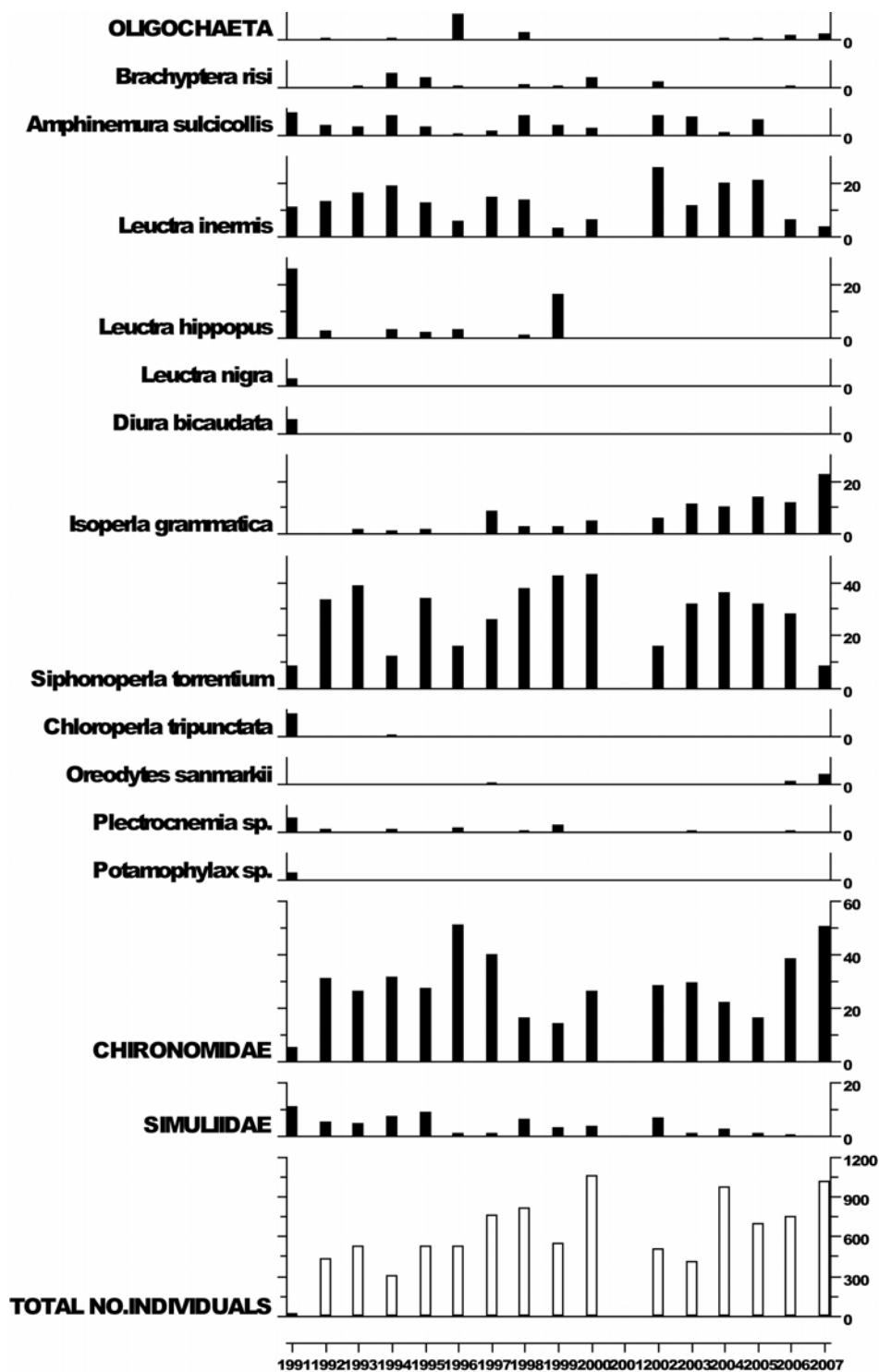
7.18.1 Spot sampled chemistry data



$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca^{2+}	Mg^{2+}	Na^+	K^+	Si	*Soluble Al	*labile Al	Cl	SO_4^{2-}	Excess SO_4^{2-}	NO_3^-	DOC
mean 1st 5 yrs	5.51	14.00	40.57	54.08	147.50	3.24	69.88	3.93	1.98	159.70	65.90	49.13	8.87	163.50
07-08 mean	5.69	25.18	38.63	53.54	149.74	4.26	67.40	1.90	0.89	178.03	54.67	36.01	6.22	244.13
07-08 std.dev	0.71	29.48	6.96	7.96	26.66	4.47	22.72	1.15	0.68	67.87	9.98	6.40	6.45	82.59

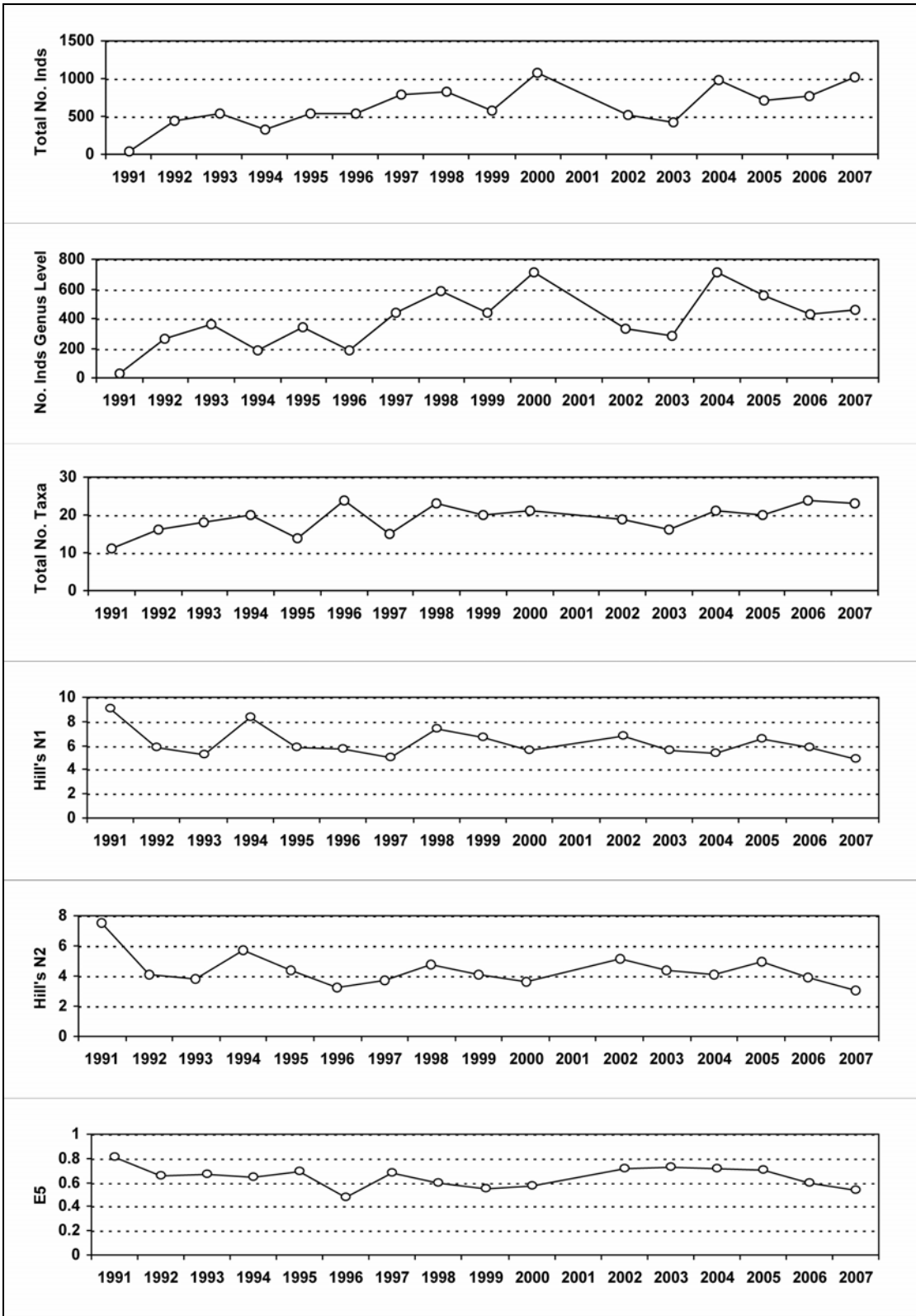
7.18.2 Macroinvertebrate data

7.18.2.1 Percentage abundance summary, Afon Gwy



No sampling in 2001 due to Foot and Mouth restrictions.

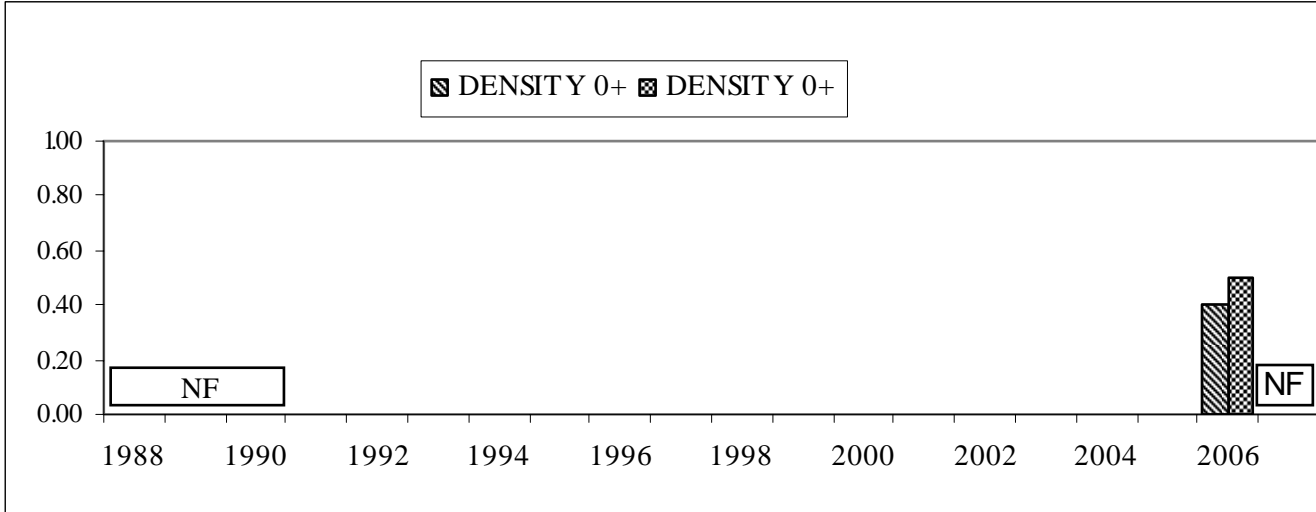
7.18.2.2 Summary statistics, Afon Gwy



No sampling in 2001 due to Foot and Mouth restrictions.

7.18.3 Fish data

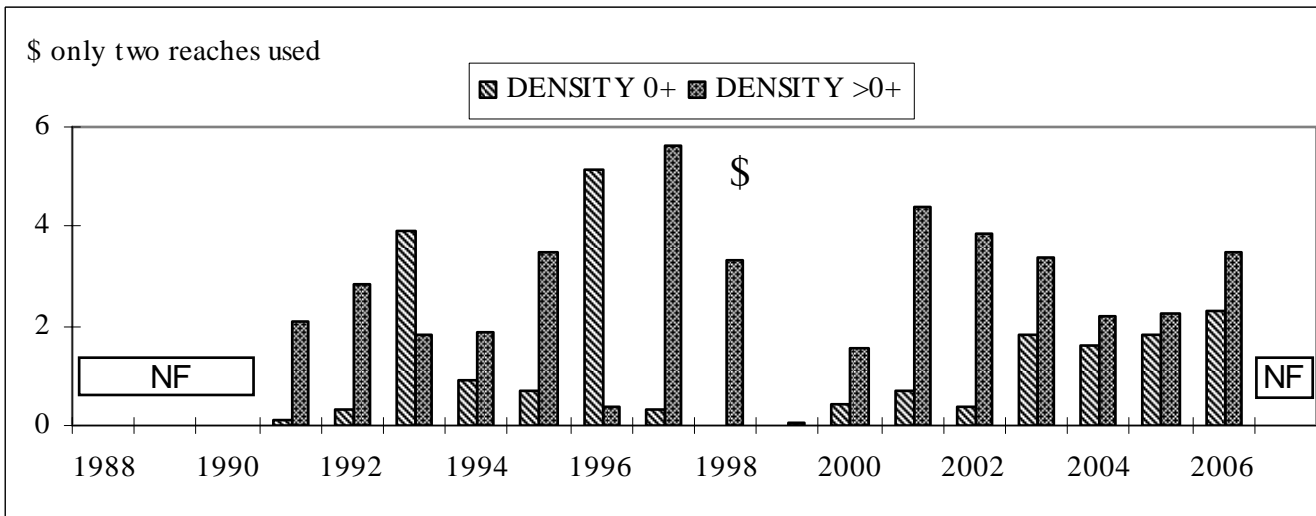
7.18.3.1 Summary of mean Salmon density (numbers 100m⁻²), Afon Gwy



NF = Not fished

Salmon recorded in 2006 for the first time.
No fishing in 2007 due to funding cuts.

7.18.3.2 Summary of mean Trout density (numbers 100m⁻²), Afon Gwy

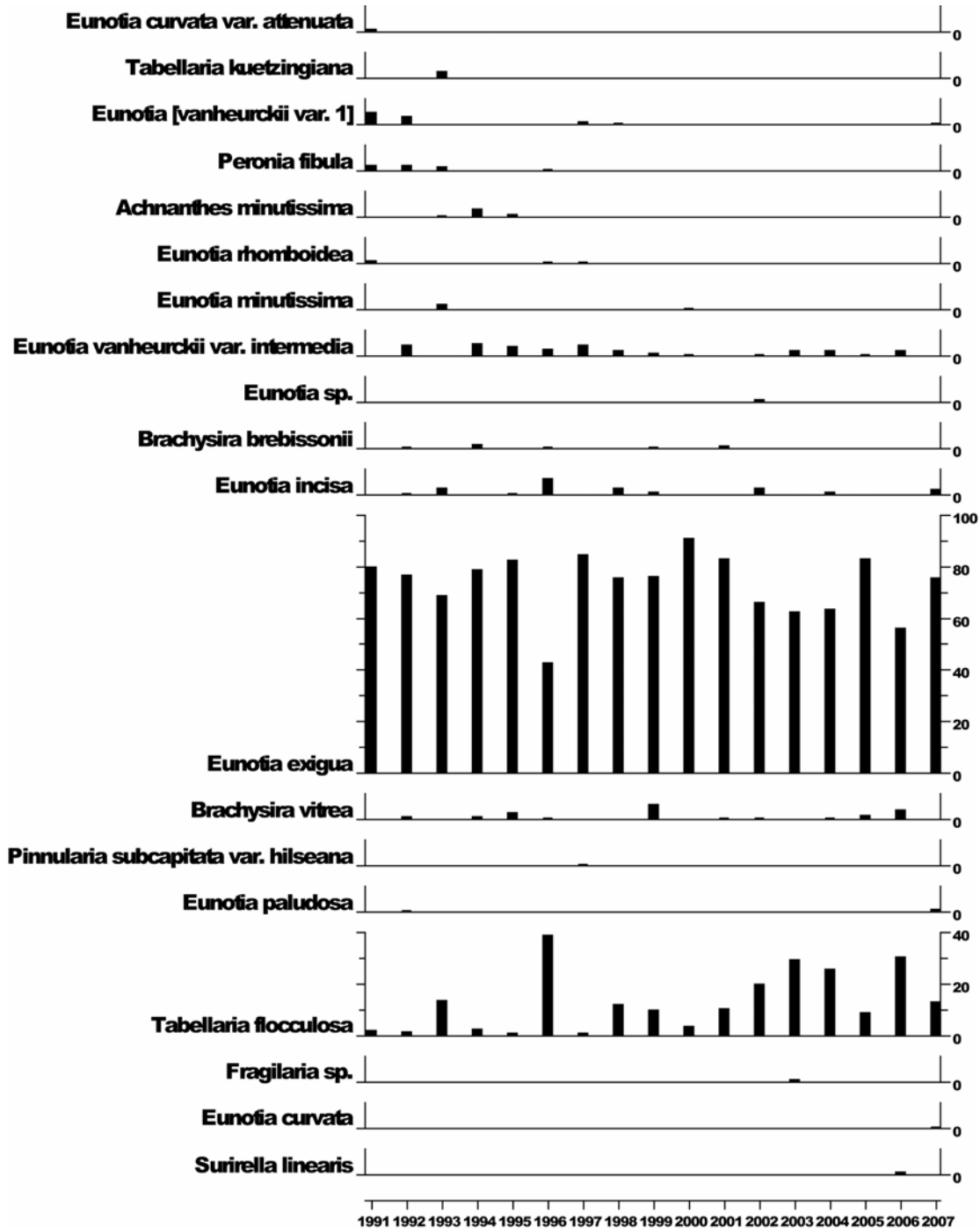


NF = Not fished

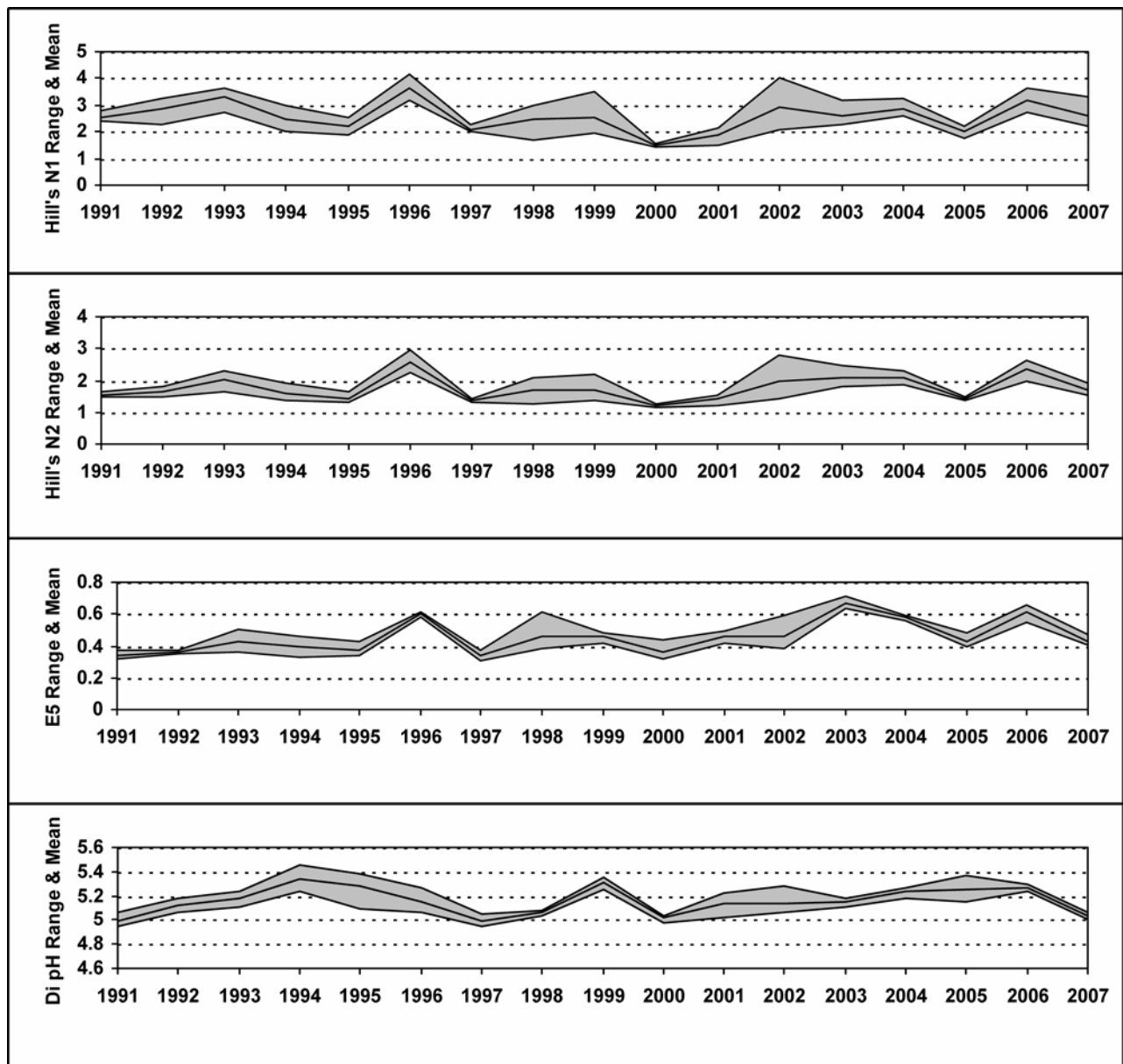
No fishing in 2007 due to funding cuts.

7.18.4 Epilithic diatom data

7.18.4.1 Percentage abundance summary, Afon Gwy

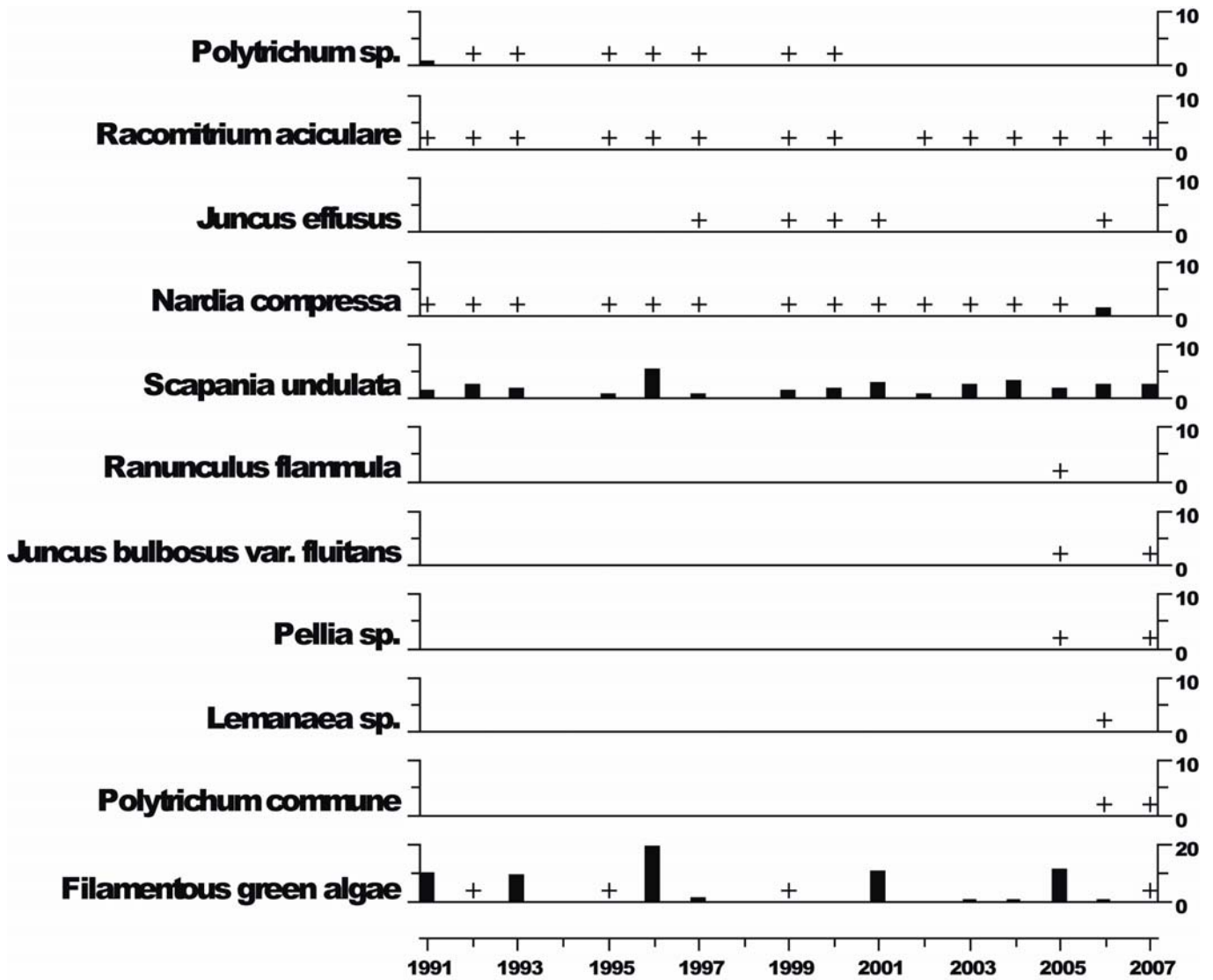


7.18.4.2 Summary statistics, Afon Gwy



7.18.5 Aquatic macrophyte data, Afon Gwy

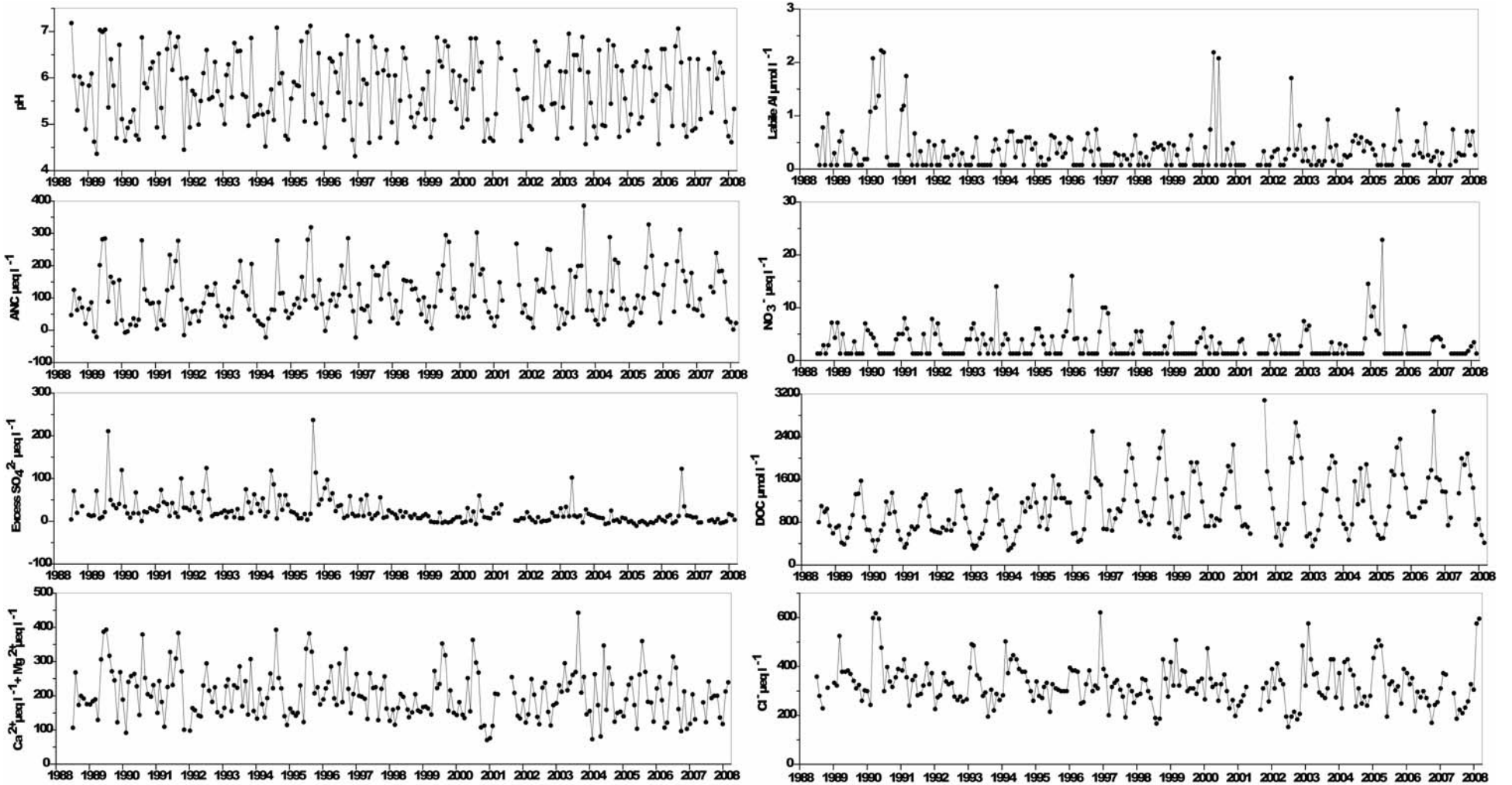
Percentage Species Cover



+ Represents <0.5% abundance

7.19 Beaghs Burn

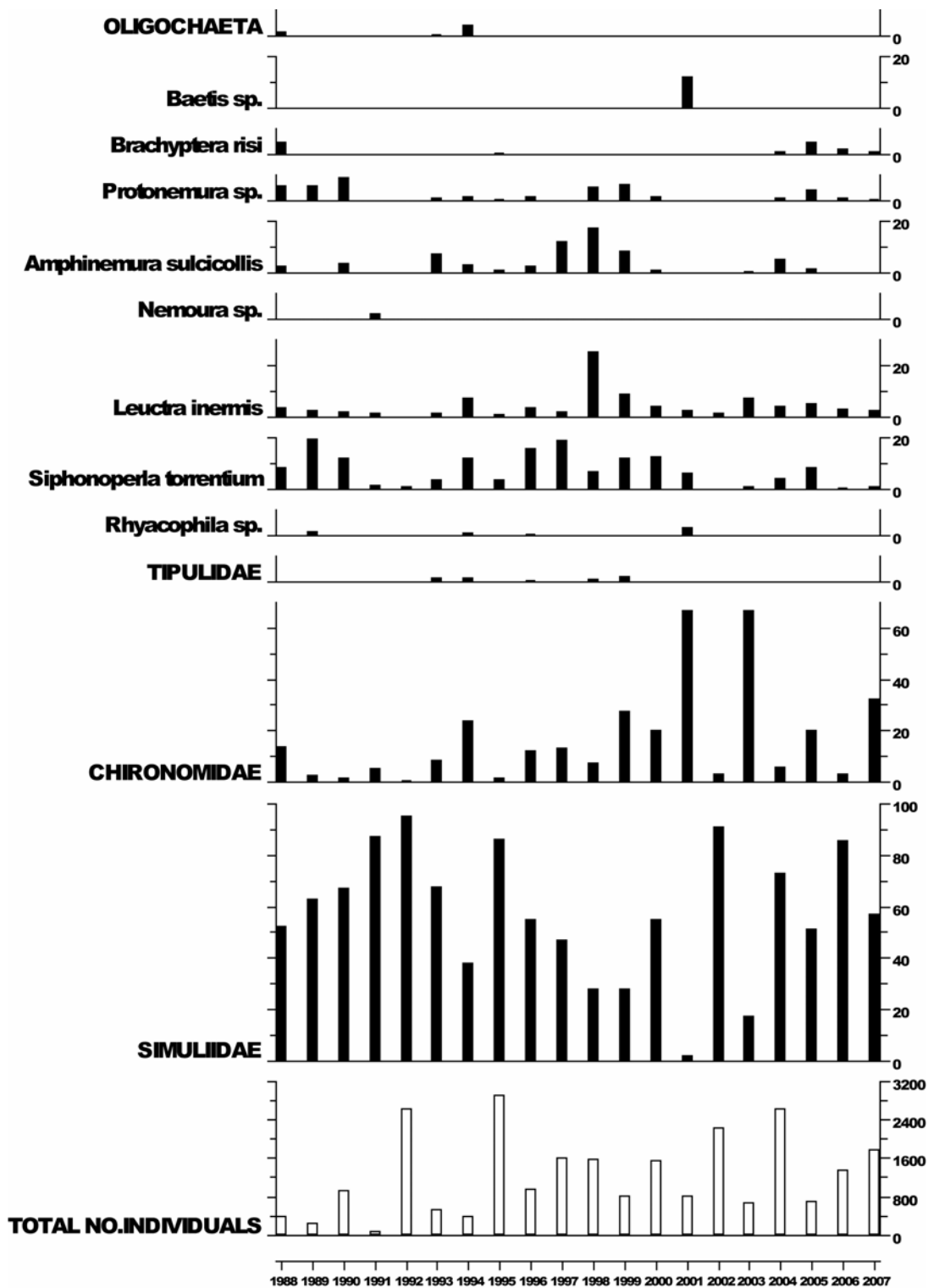
7.19.1 Spot sampled chemistry data



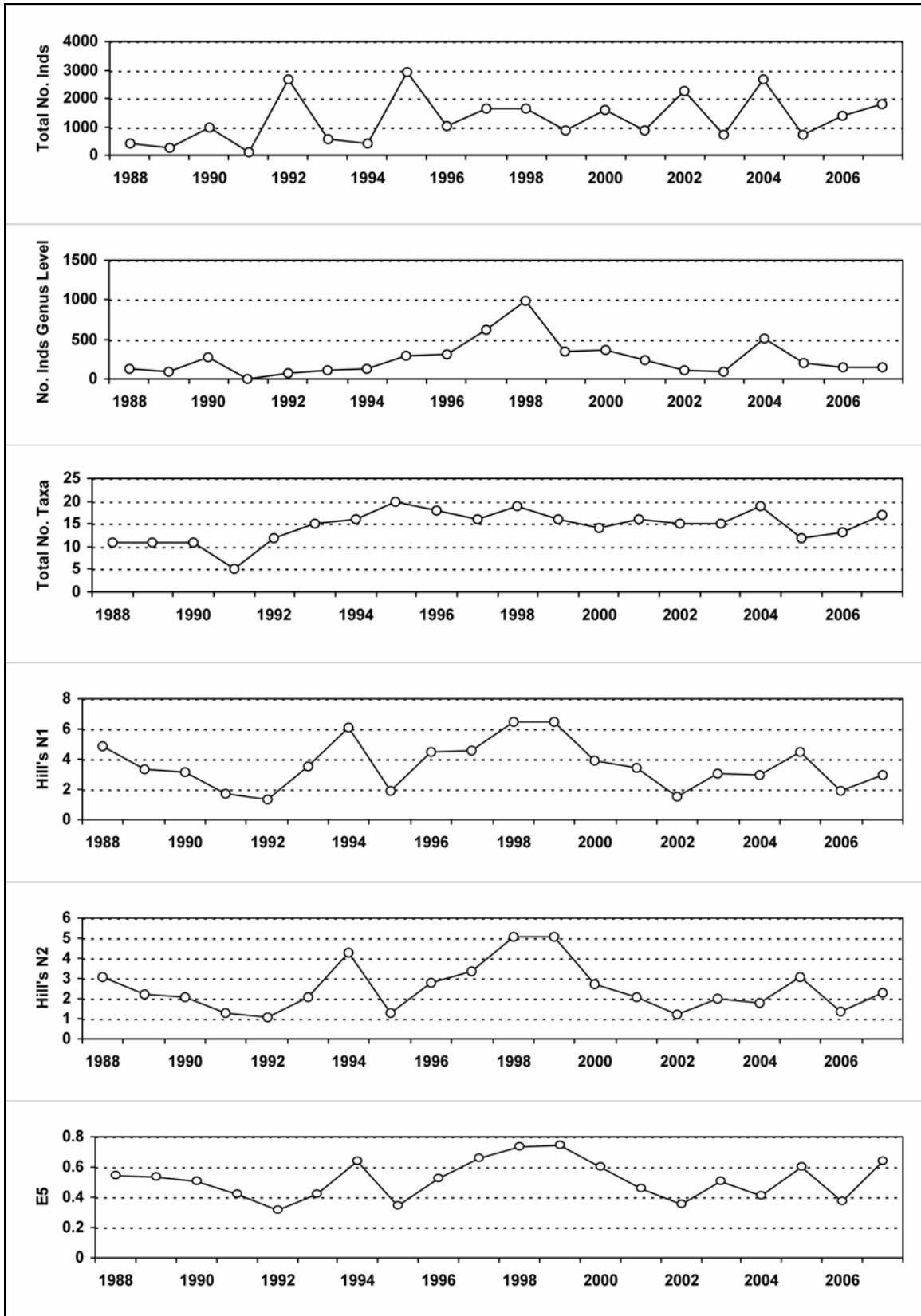
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	5.76	86.98	103.20	113.90	306.70	11.31	68.92	2.14	0.44	350.50	73.68	37.39	3.11	783.80
07-08 mean	5.61	108.97	88.11	96.04	265.85	7.29	112.99	1.48	0.39	319.96	36.71	3.18	1.34	1297.98
07-08 std.dev	0.70	82.92	25.26	24.35	74.66	3.24	75.03	0.65	0.25	146.70	19.51	7.17	0.99	616.28

7.19.2 Macroinvertebrate data

7.19.2.1 Percentage abundance summary, Beaghs Burn

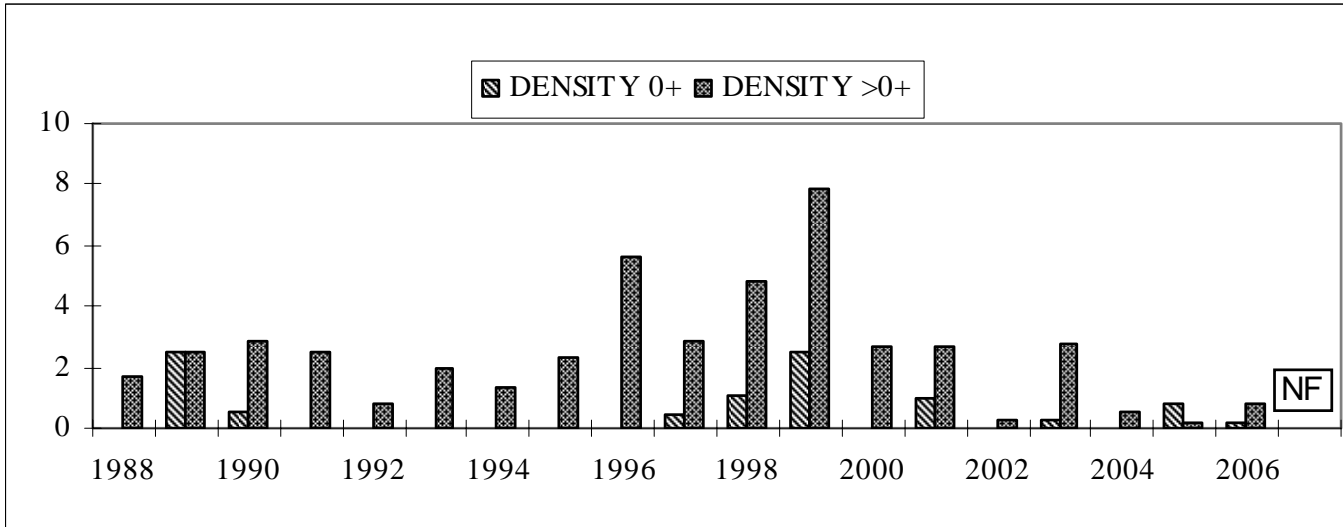


7.19.2.2 Summary statistics, Beaghs Burn



7.19.3 Fish data

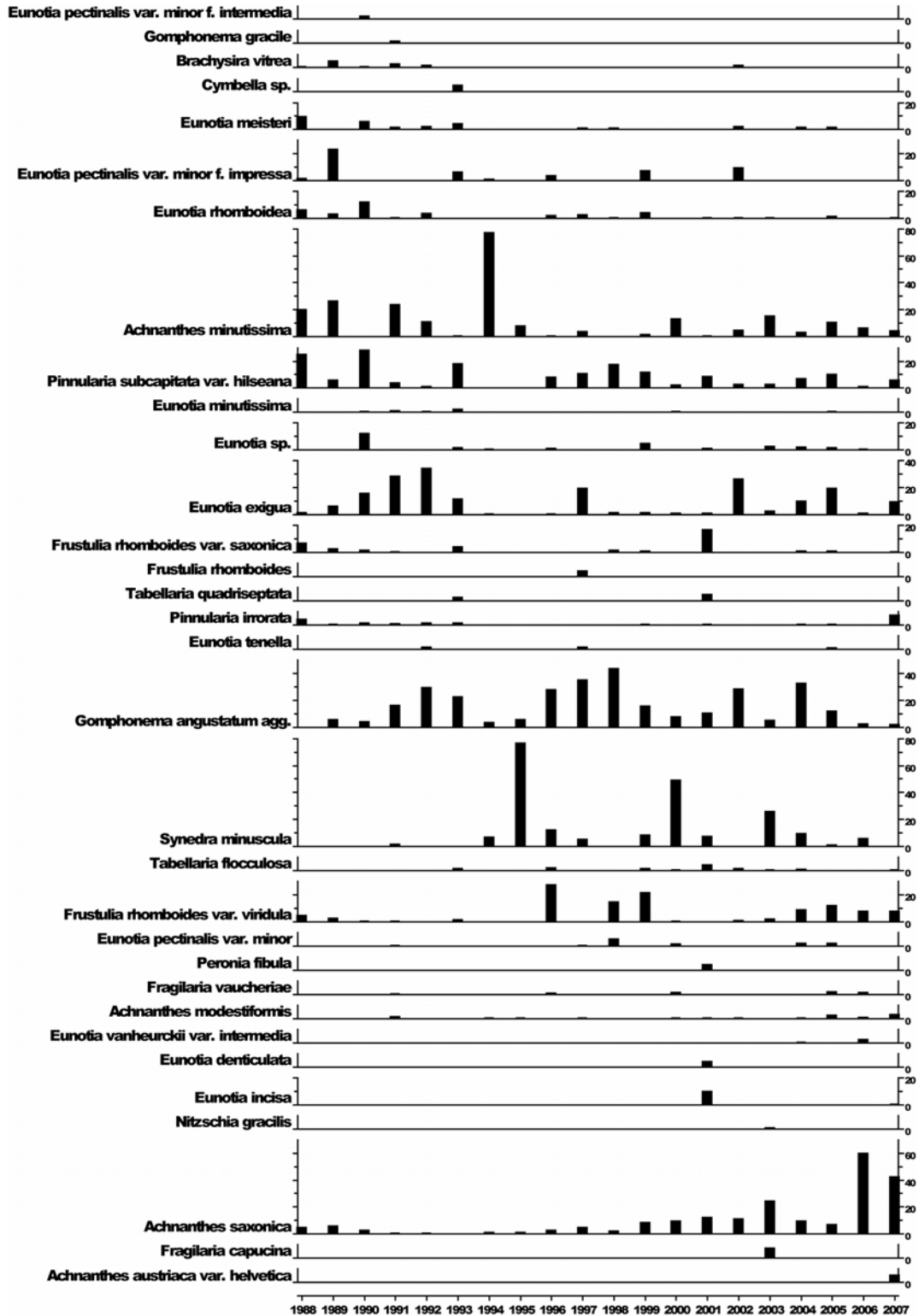
7.19.3.1 Summary of mean Trout density (numbers 100m⁻²), Beaghs Burn



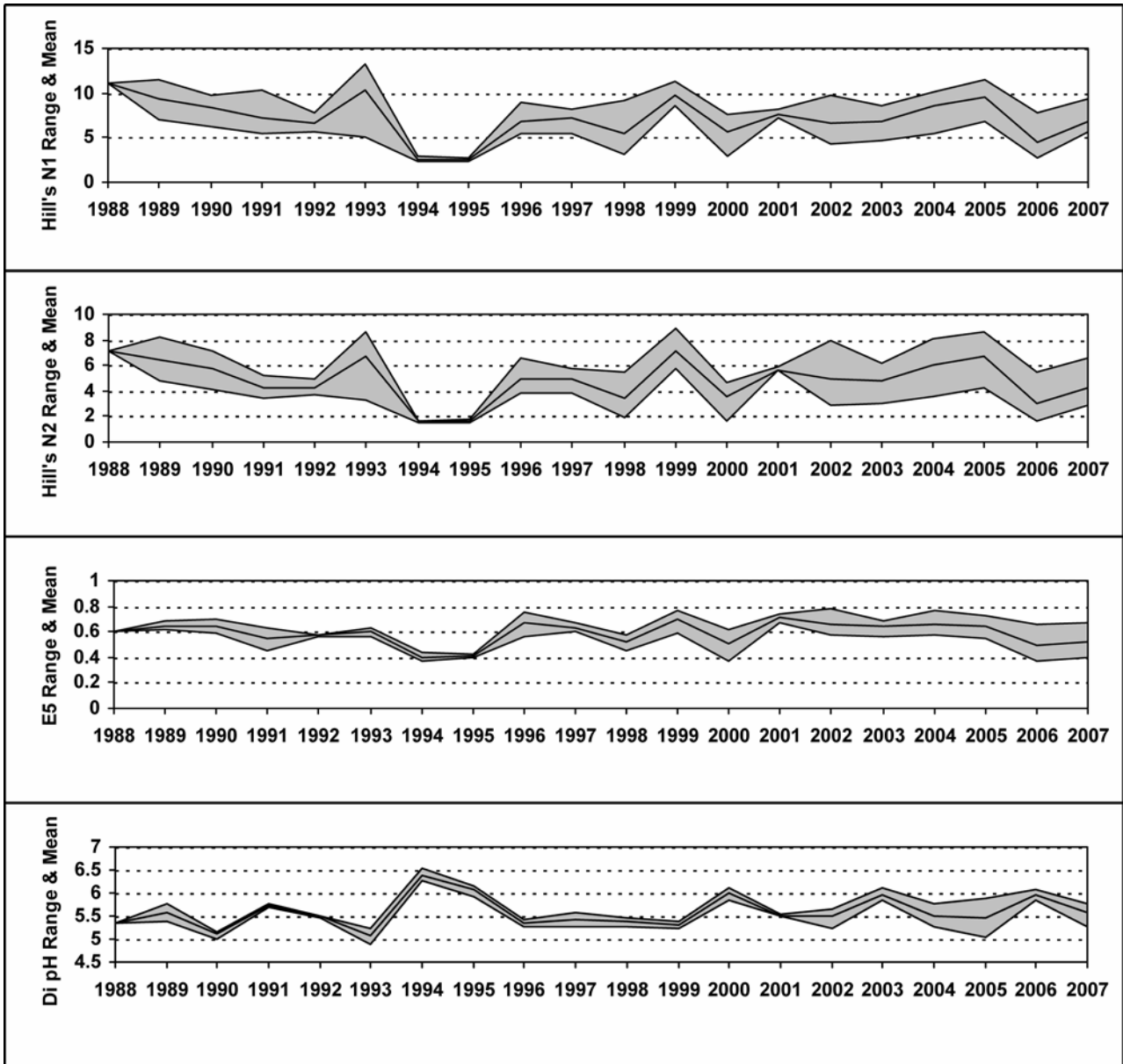
No fishing in 2007 due to funding cuts.

7.19.4 Epilithic diatom data

7.19.4.1 Percentage abundance summary, Beaghs Burn

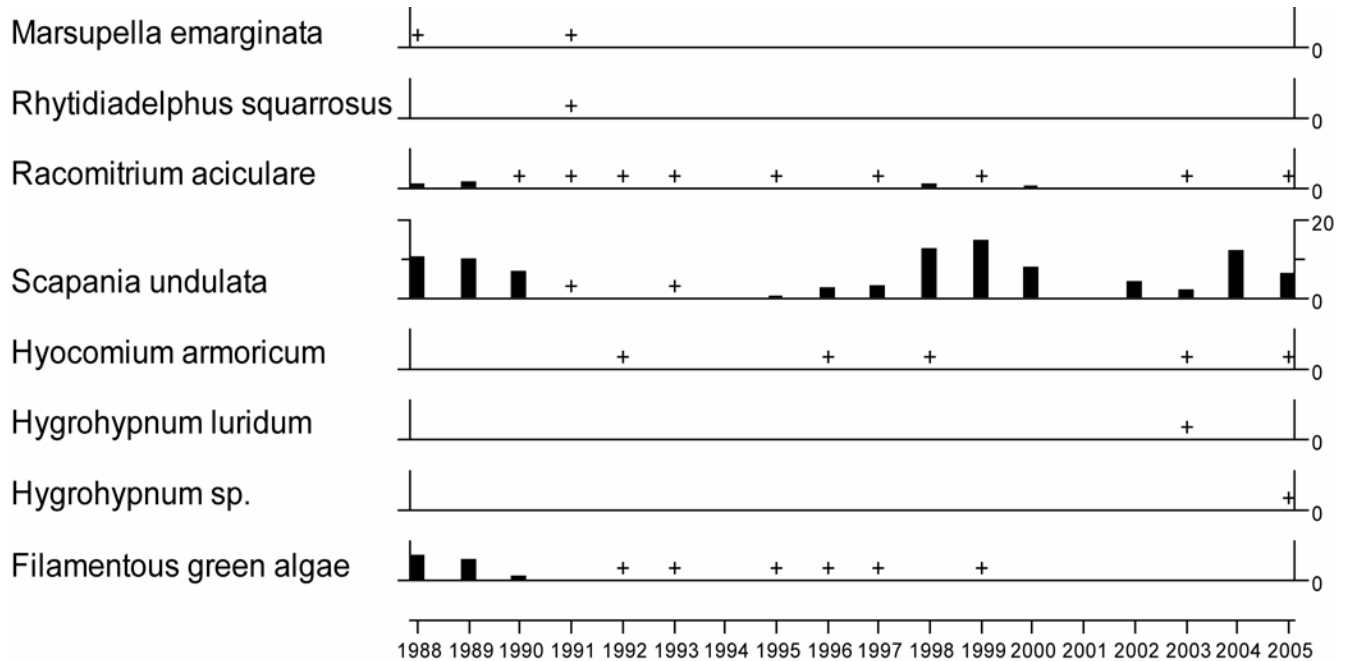


7.19.4.2 Summary statistics, Beaghs Burn



7.19.5 Aquatic macrophyte data, Beaghs Burn

Percentage Species Cover



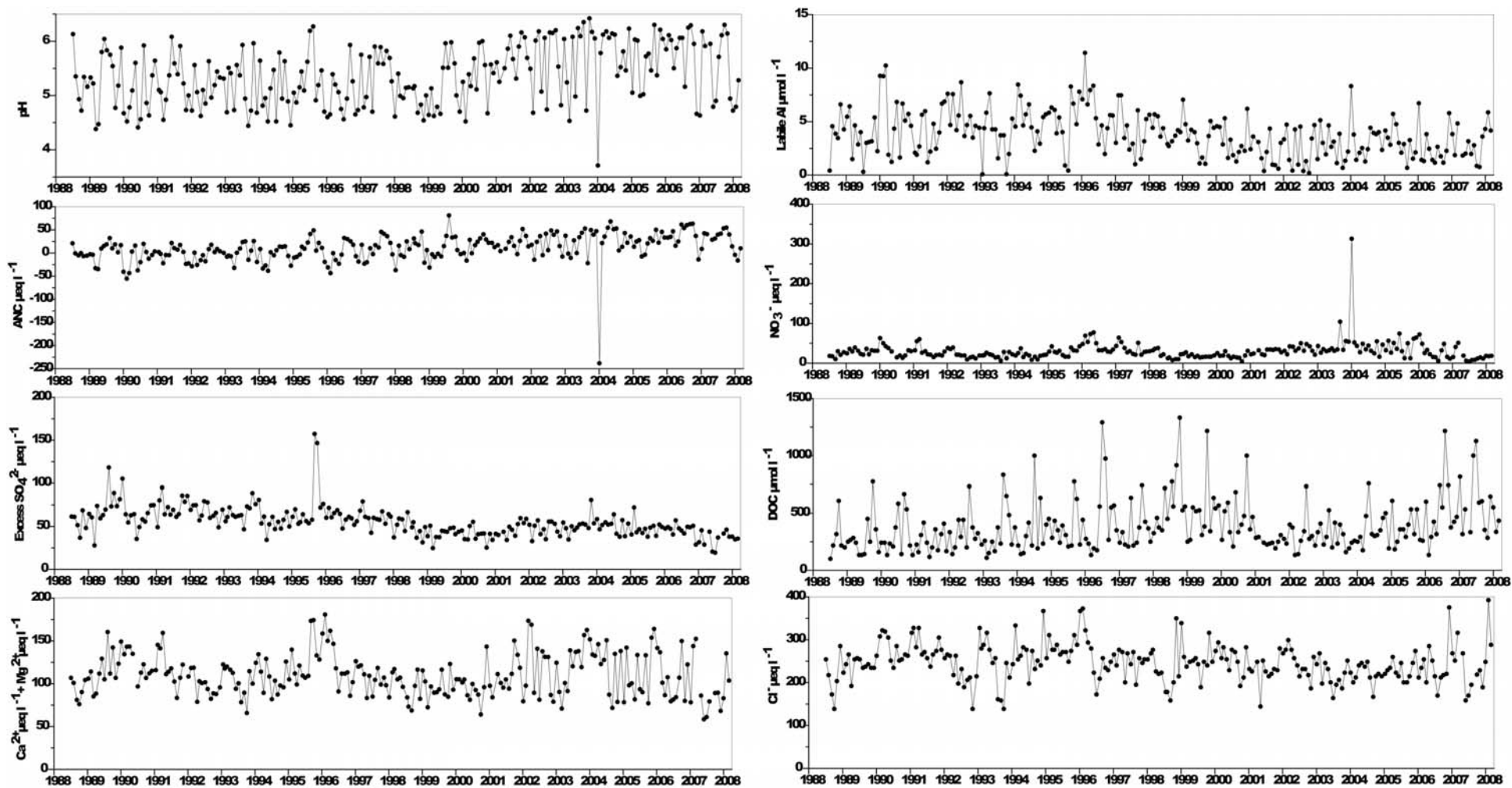
+ Represents <0.25% abundance

No survey undertaken in 2006 due to spate conditions

No survey in 2007 due to funding cuts

7.20 Bencrom River

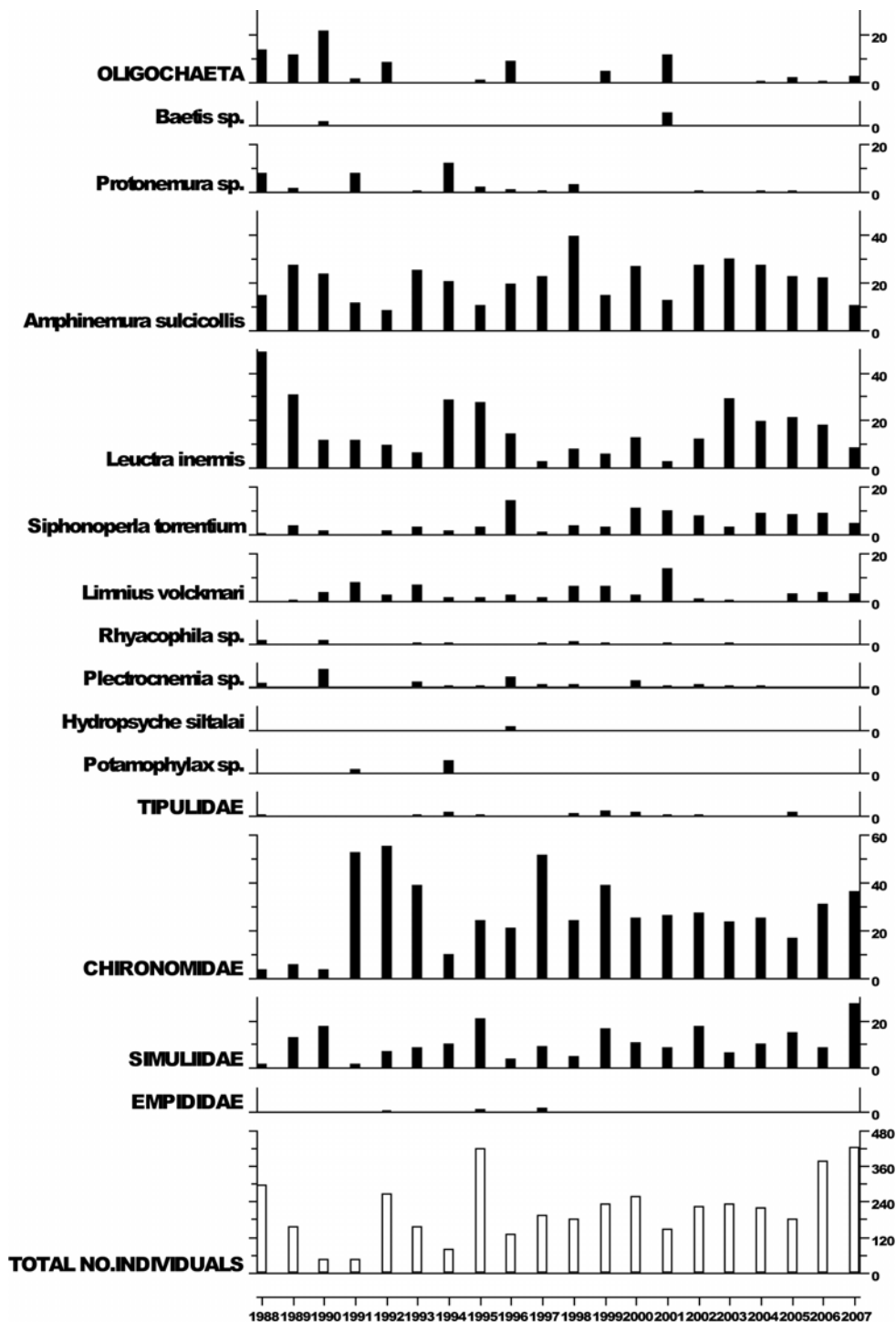
7.20.1 Spot sampled chemistry data



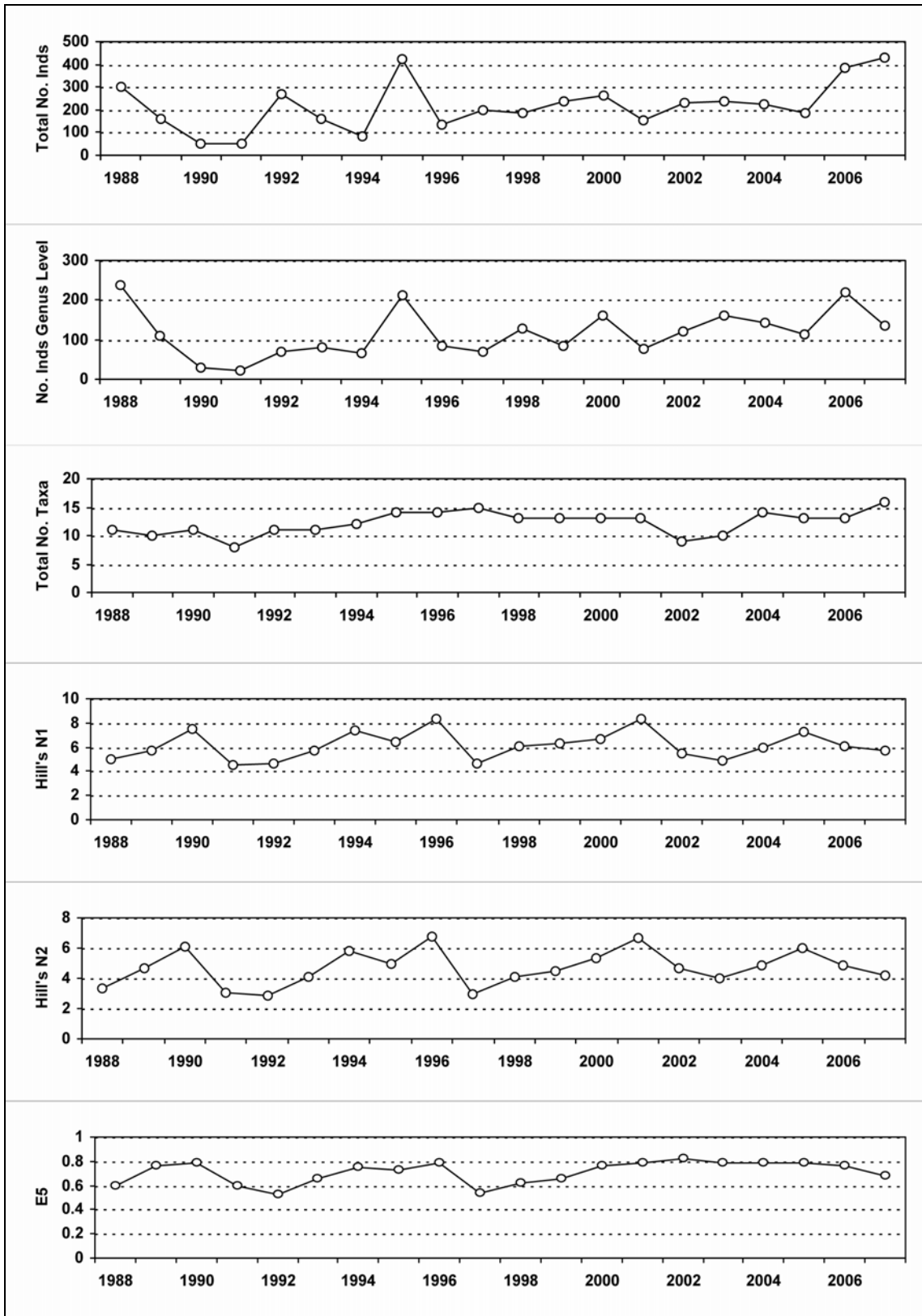
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl ⁻	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	5.20	-3.90	52.21	62.05	259.70	11.66	214.70	7.40	4.43	252.30	94.96	68.45	26.86	287.70
07-08 mean	5.42	26.50	38.57	46.72	237.77	10.15	256.96	5.47	2.84	235.30	60.97	36.31	12.13	568.65
07-08 std.dev	0.63	23.02	9.39	15.36	48.33	4.67	139.57	2.30	1.56	69.18	13.66	9.17	5.47	275.92

7.20.2 Macroinvertebrate data

7.20.2.1 Percentage abundance summary, Bencrom River

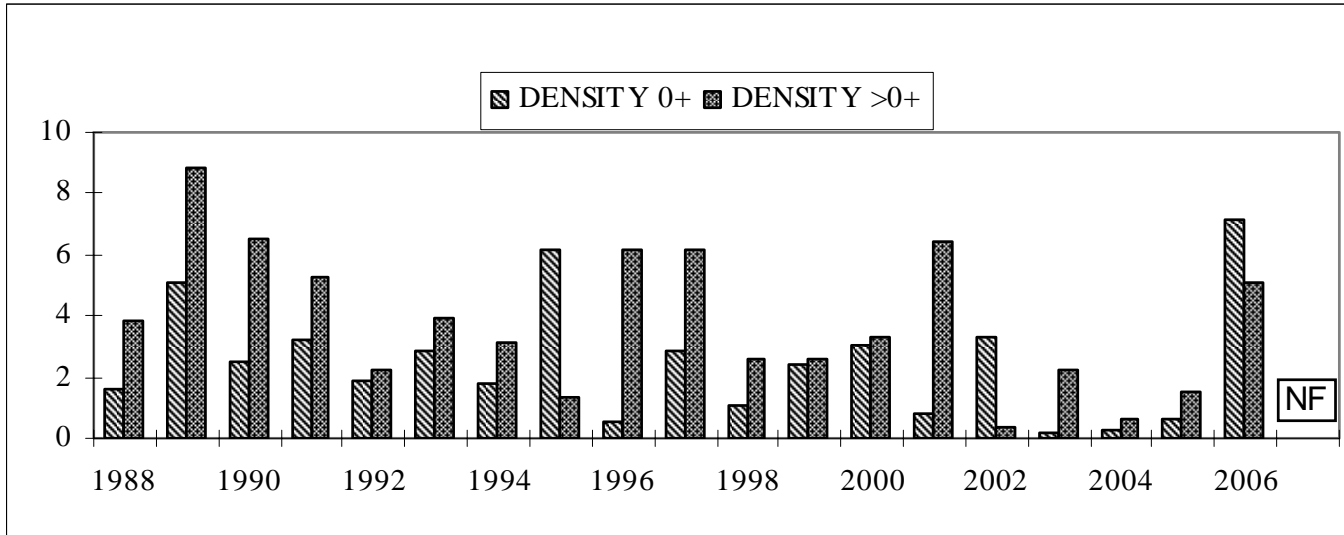


7.20.2.2 Summary statistics, Bencrom River



7.20.3 Fish data

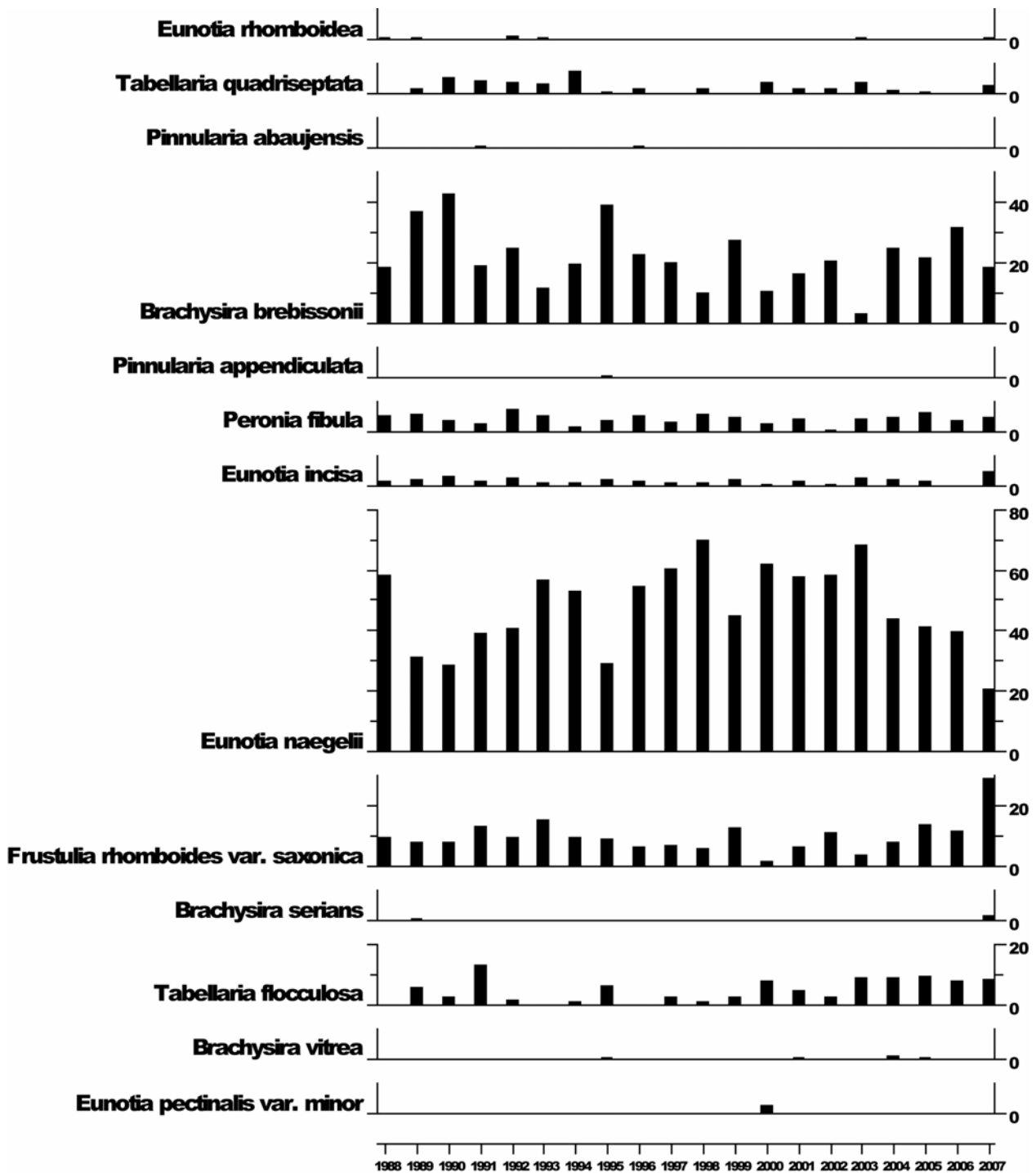
7.20.3.1 Summary of mean Trout density (numbers 100m⁻²), Bencrom River



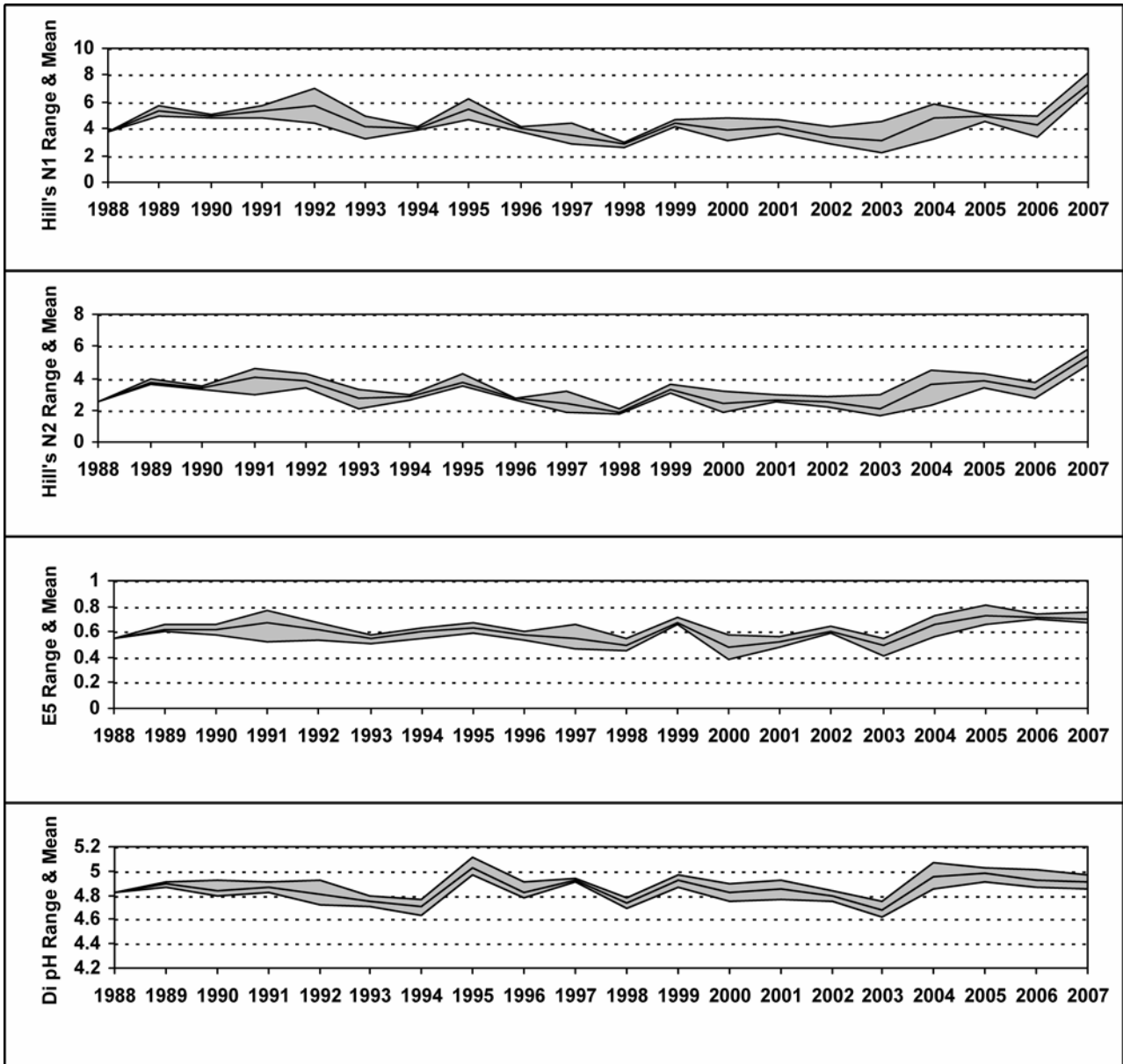
No fishing in 2007 due to funding cuts.

7.20.4 Epilithic diatom data

7.20.4.1 Percentage abundance summary, Bencrom River

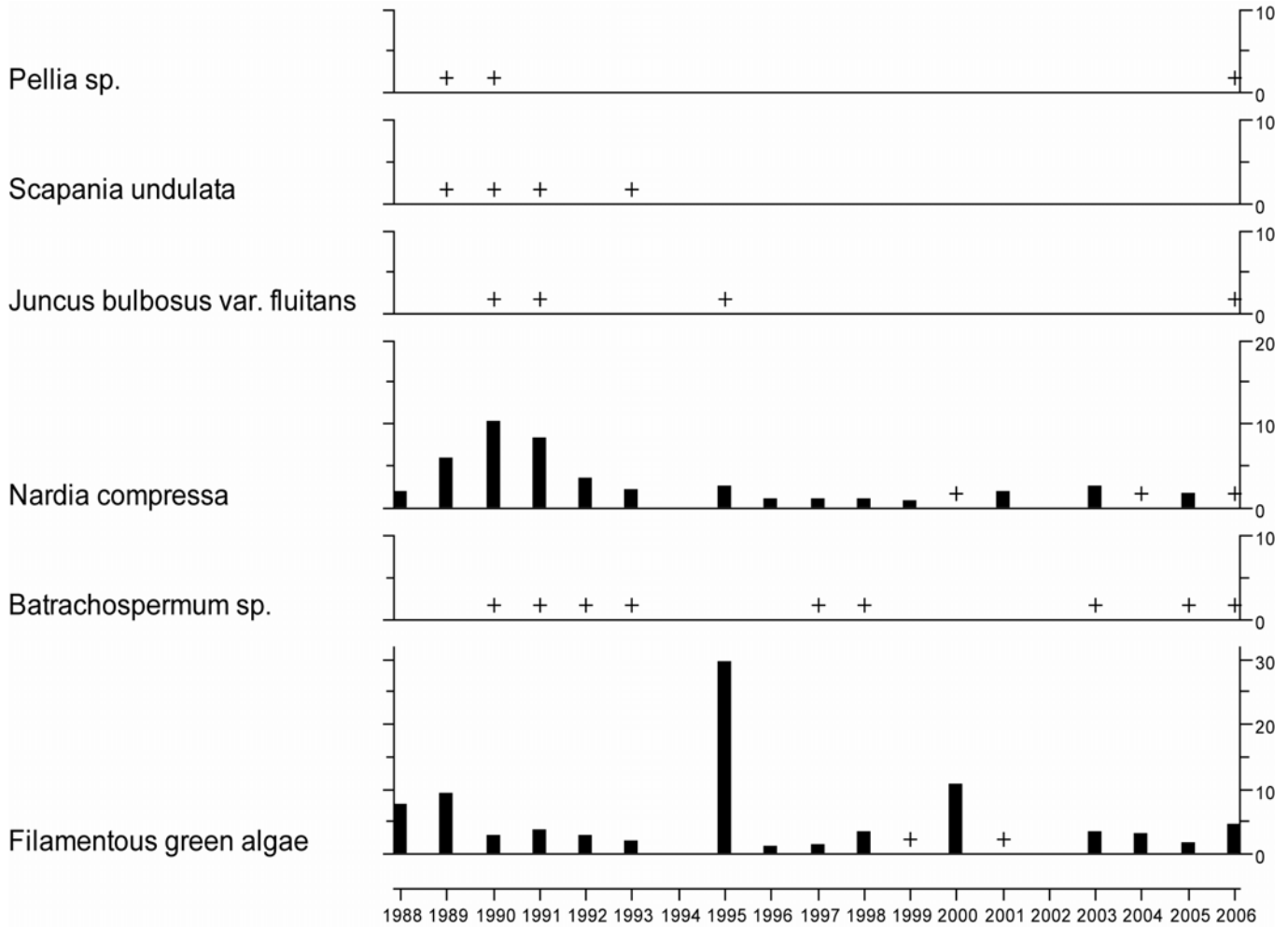


7.20.4.2 Summary statistics, Bencrom River



7.20.5 Aquatic macrophyte data, Bencrom River

Percentage Species Cover



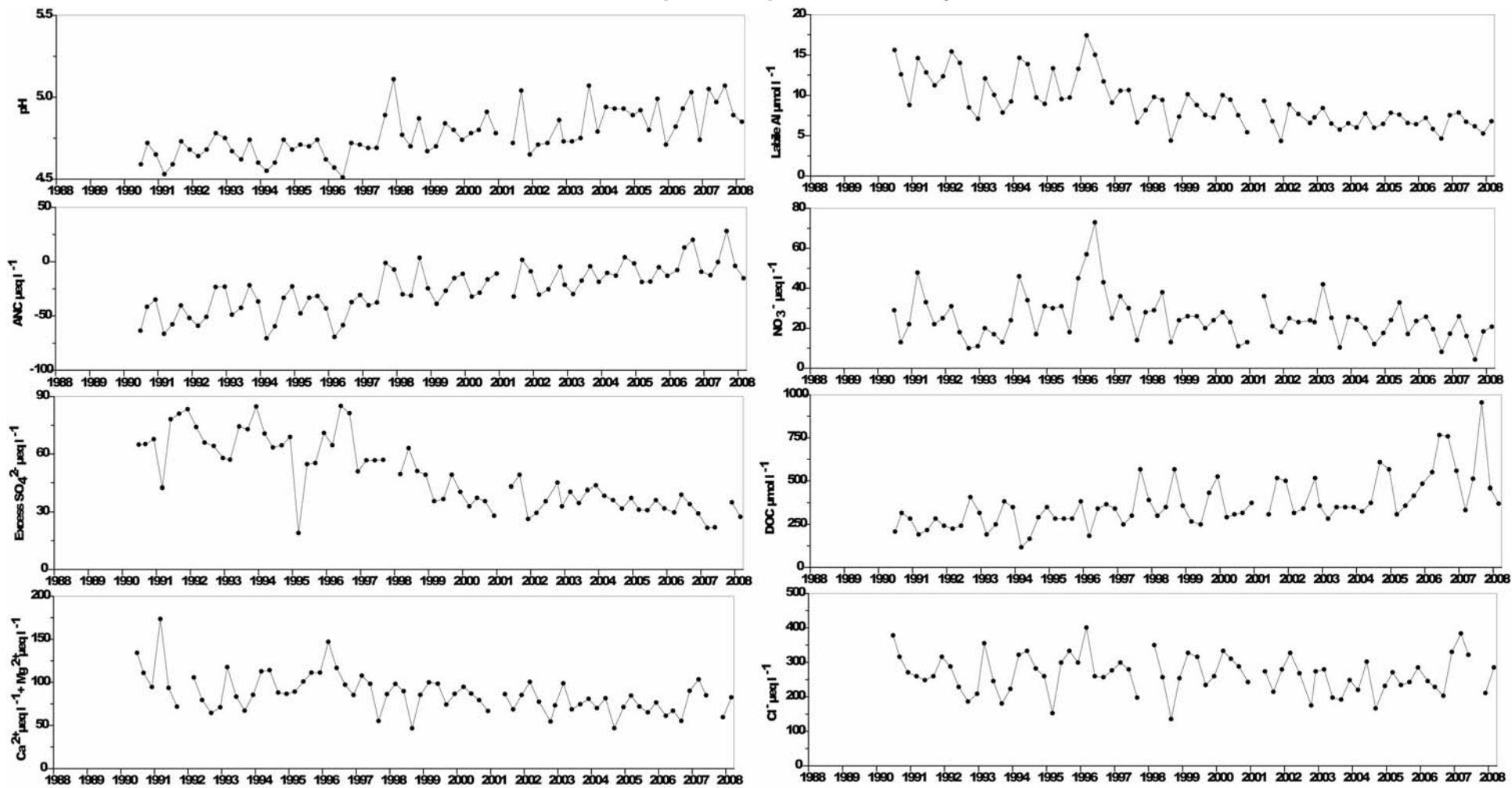
+ Represents <0.25% abundance

No survey undertaken in 2002 due to spate conditions

No survey in 2007 due to funding cuts

7.21 Blue Lough

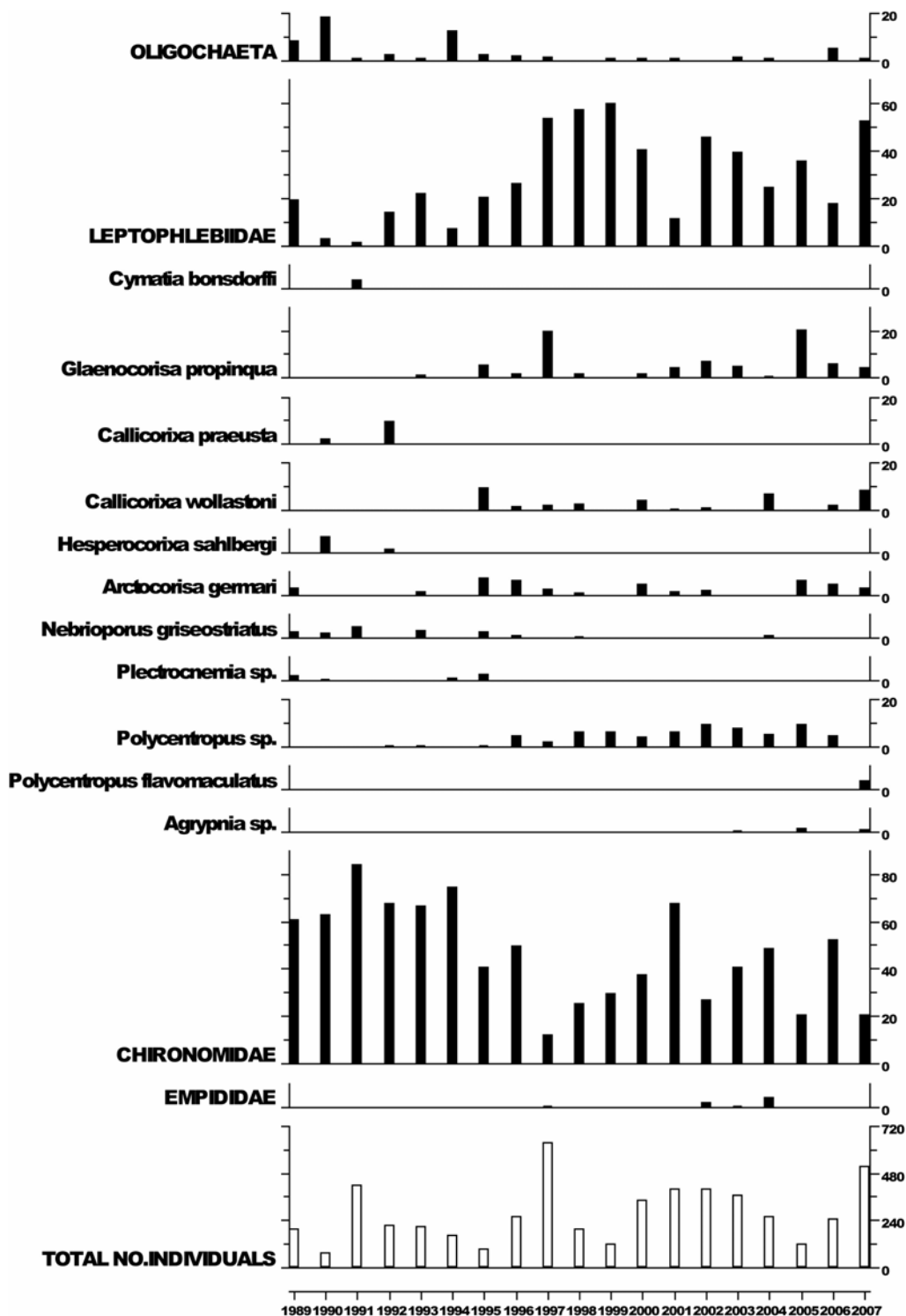
7.21.1 Spot sampled chemistry data



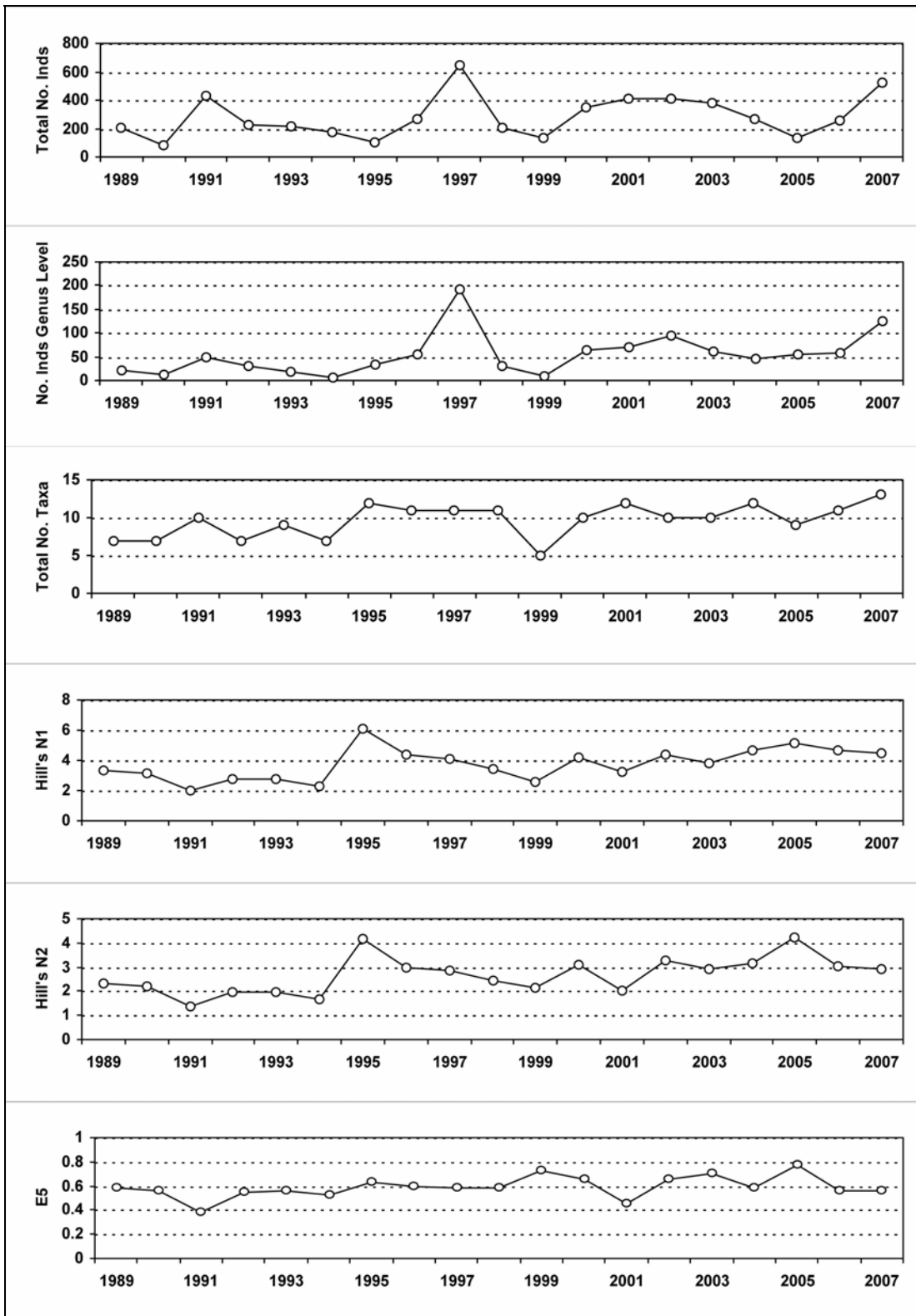
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca ²⁺	Mg ²⁺	Na ⁺	K ⁺	Si	*Soluble Al	*labile Al	Cl ⁻	SO ₄ ²⁻	Excess SO ₄ ²⁻	NO ₃ ⁻	DOC
mean 1st 5 yrs	4.66	-44.87	40.74	57.42	245.00	11.38	71.25	14.13	11.63	265.20	95.62	67.77	24.69	265.80
07-08 mean	4.95	2.11	28.06	47.61	239.11	13.71	79.78	9.66	6.23	272.51	57.41	28.85	14.85	574.06
07-08 std.dev	0.10	18.49	5.34	8.71	25.01	2.70	74.83	0.29	0.70	56.33	1.04	6.72	7.30	260.56

7.21.2 Macroinvertebrate data

7.21.2.1 Percentage abundance summary, Blue Lough

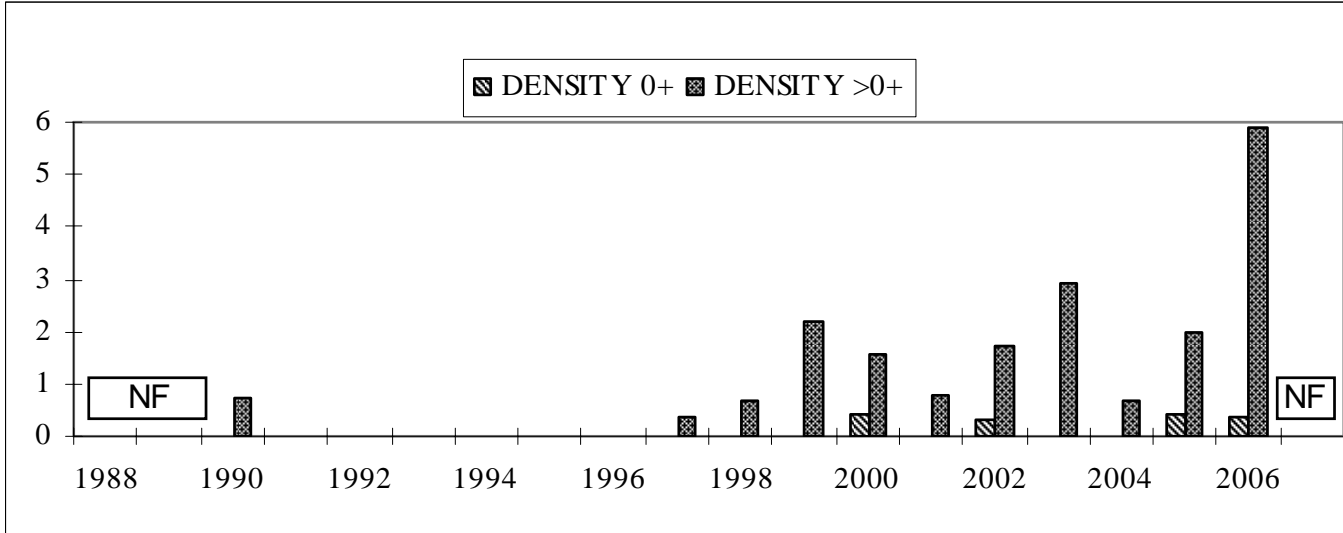


7.21.2.2 Summary statistics, Blue Lough



7.21.3 Fish data (for outflow stream)

7.21.3.1 Summary of mean Trout density (numbers 100m⁻²), Blue Lough

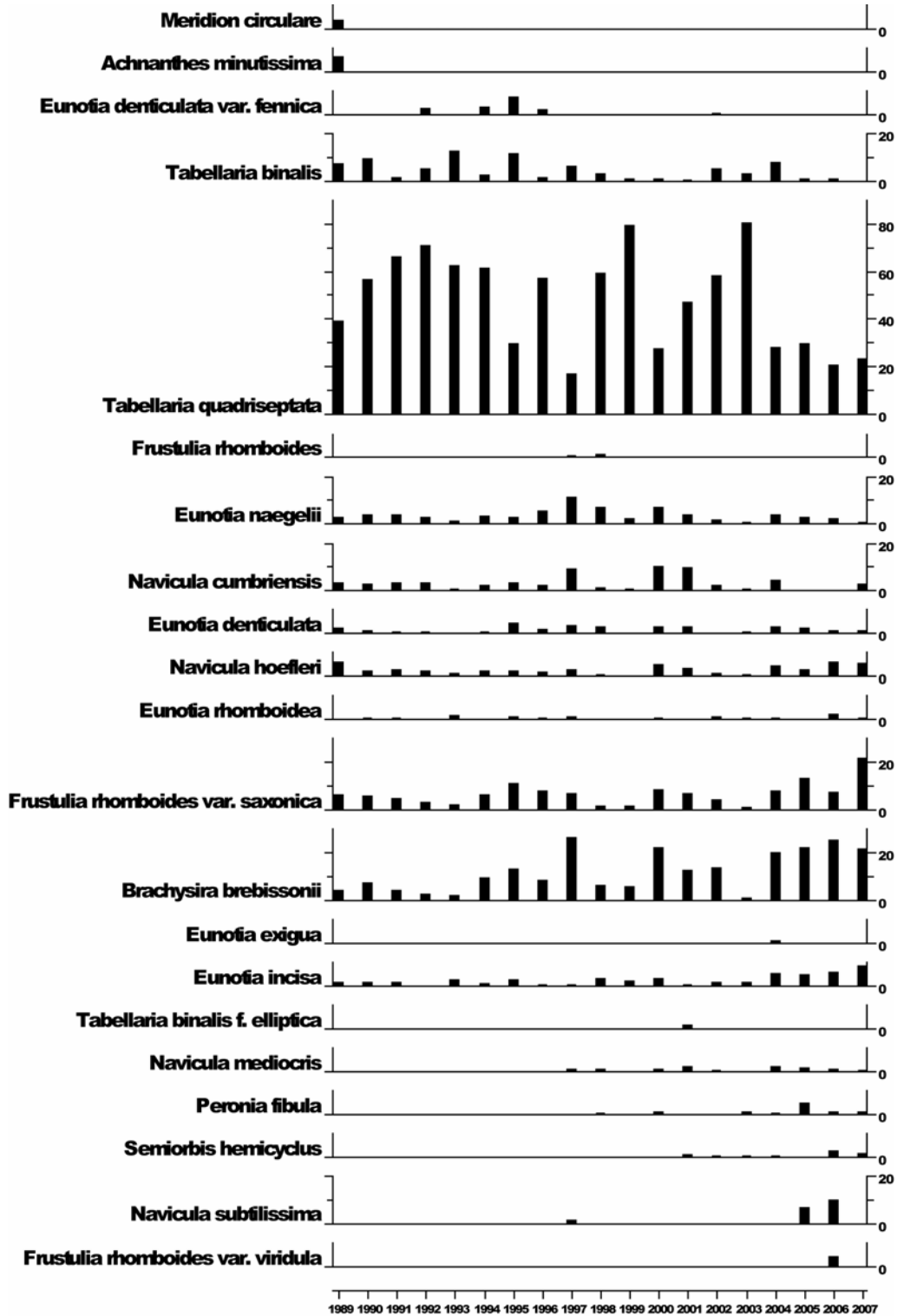


NF = Not fished

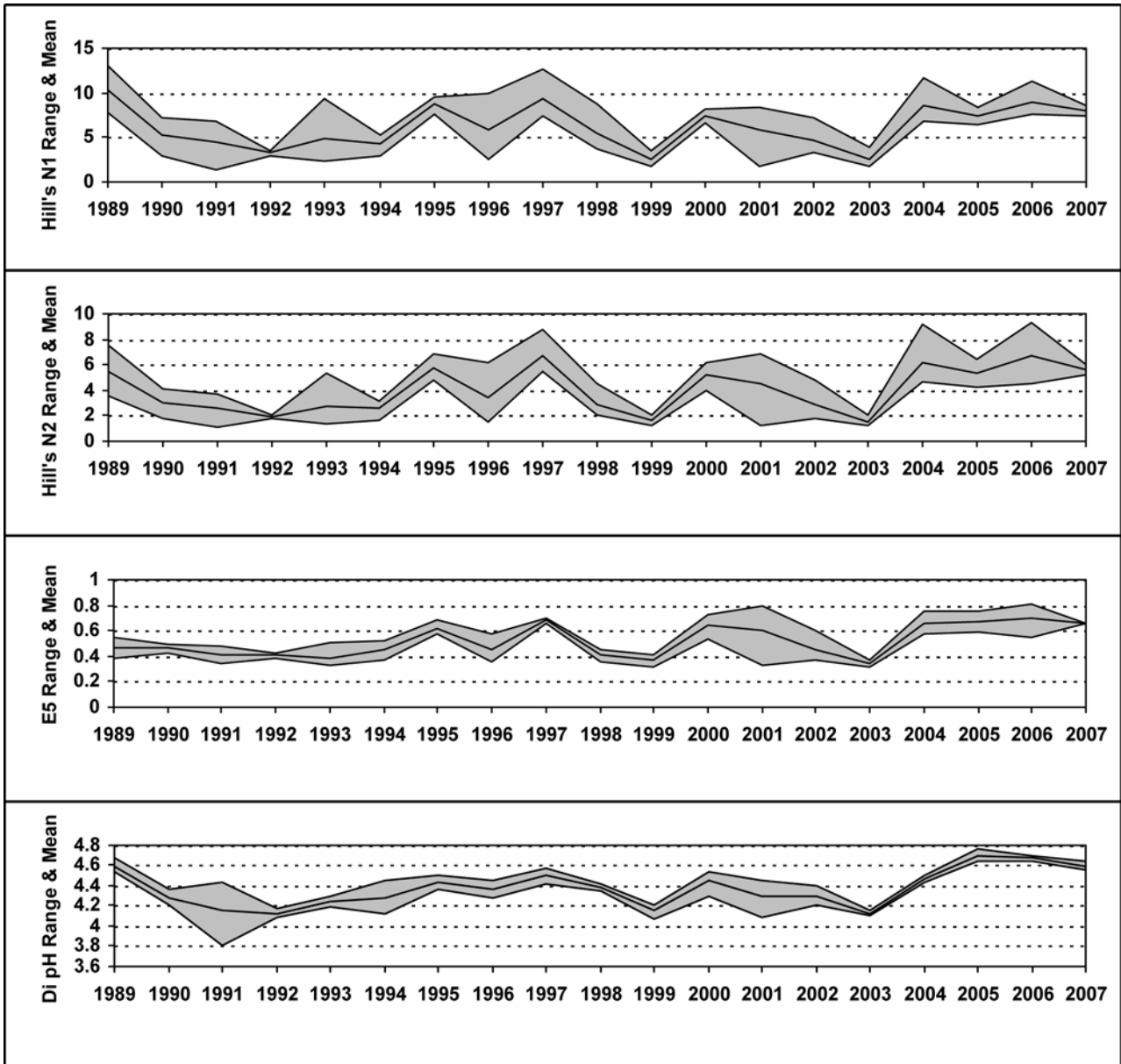
No fishing in 2007 due to funding cuts.

7.21.4 Epilithic diatom data

7.21.4.1 Percentage abundance summary, Blue Lough

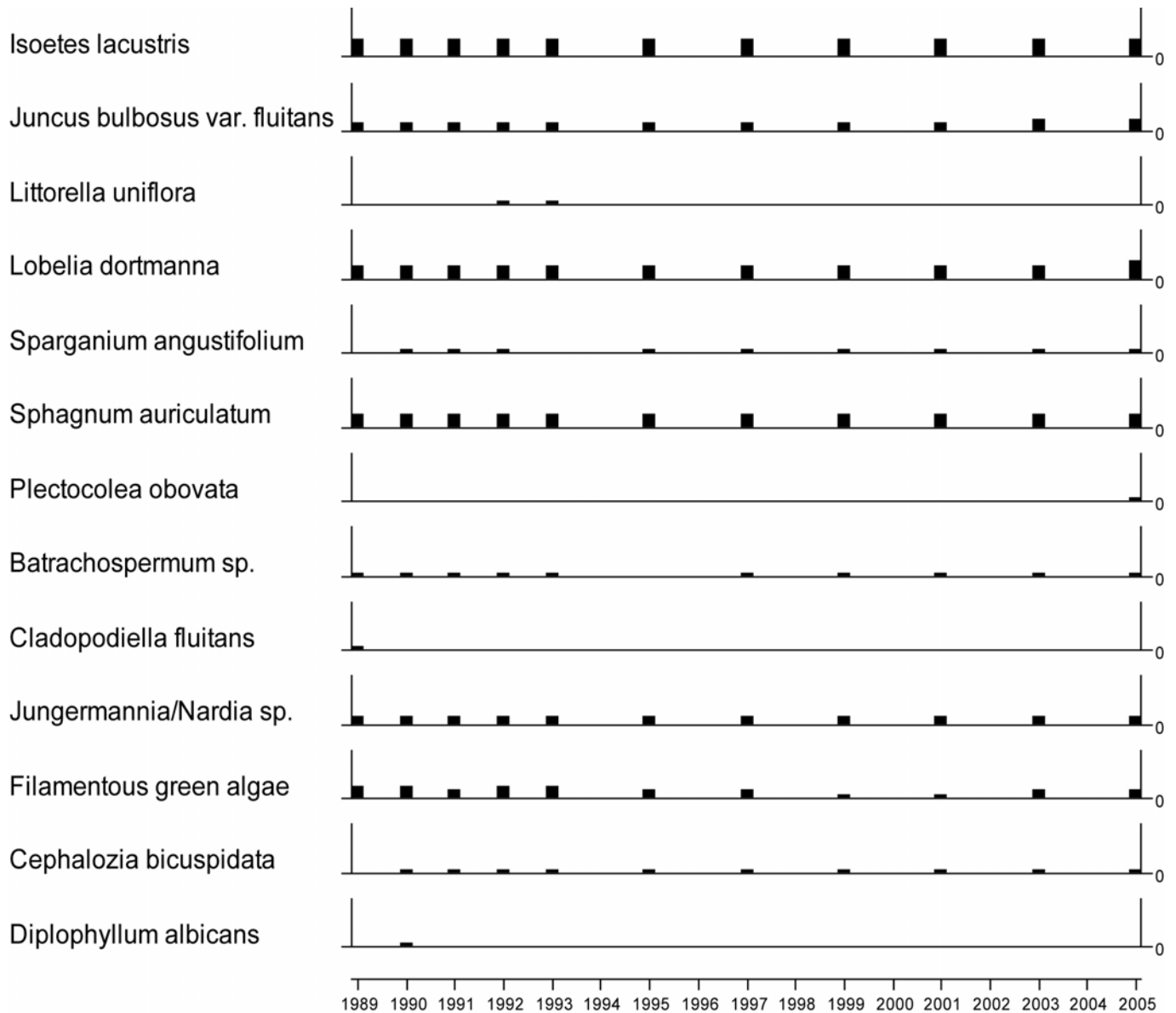


7.21.4.2 Summary statistics, Blue Lough



7.21.5 Aquatic macrophyte data, Blue Lough

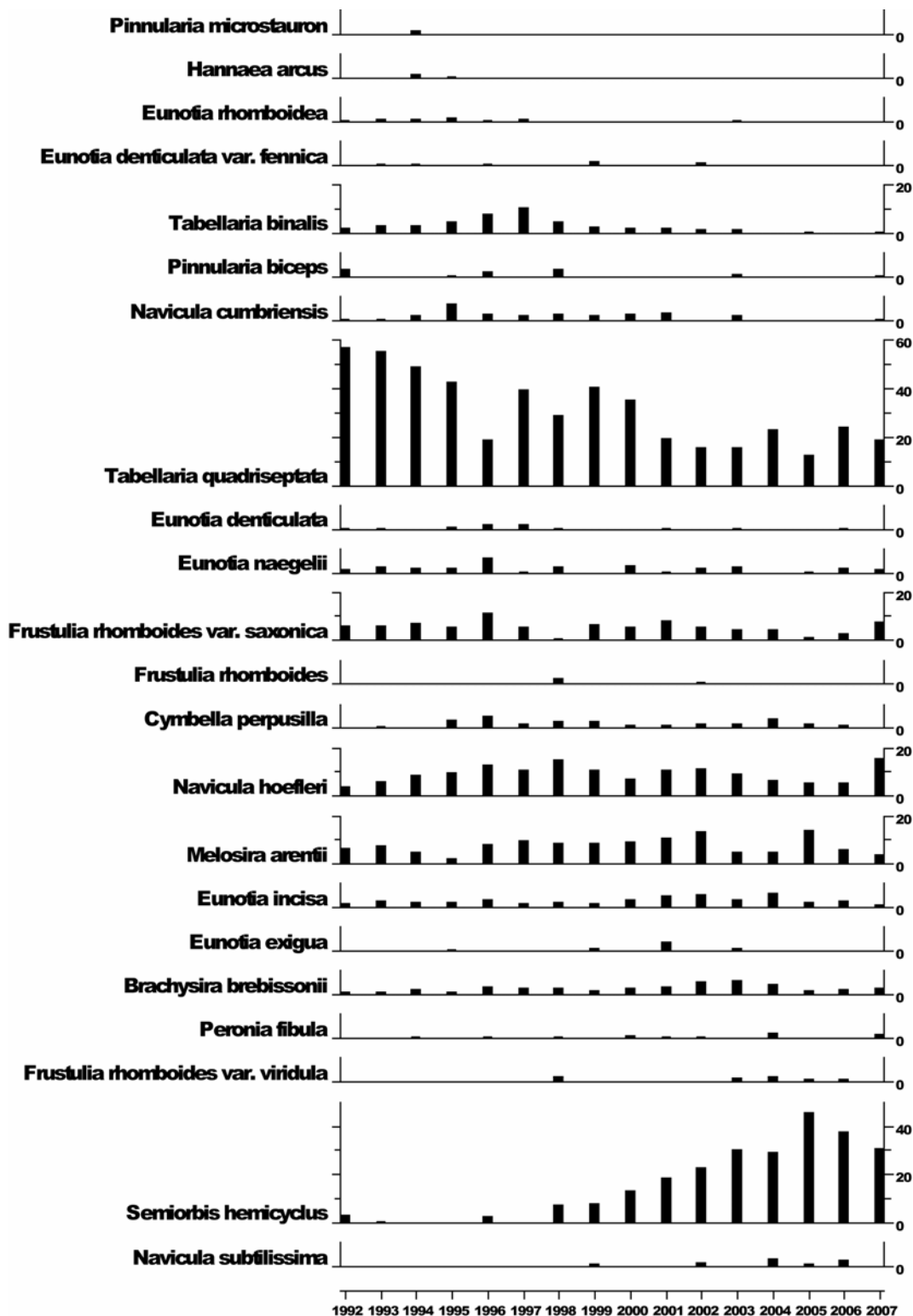
Species Scores (1-5)



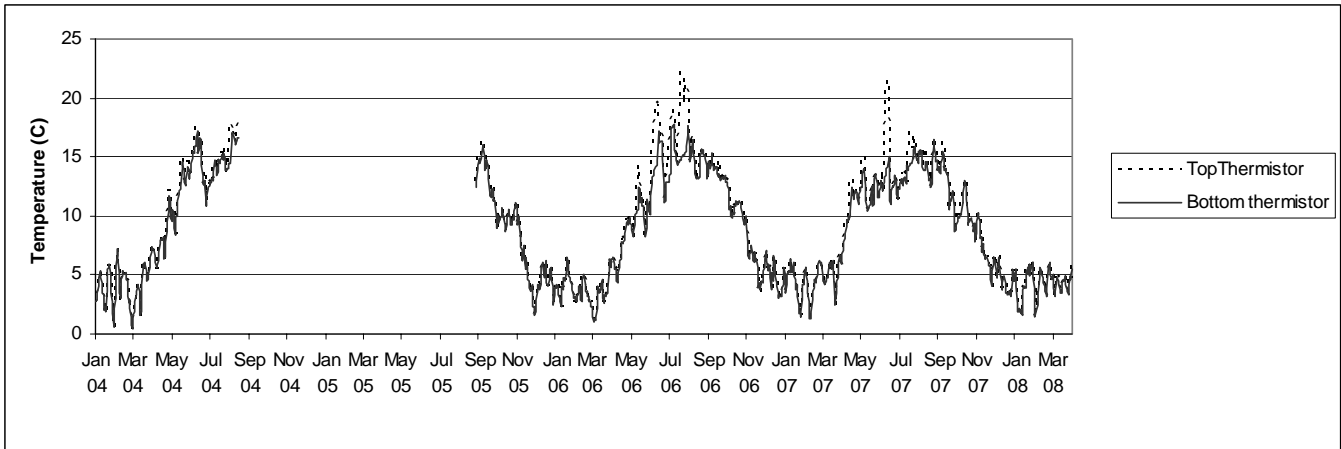
No survey in 2007 due to funding cuts

7.21.6 Sediment trap data, Blue Lough

Relative percentage frequency of diatom taxa



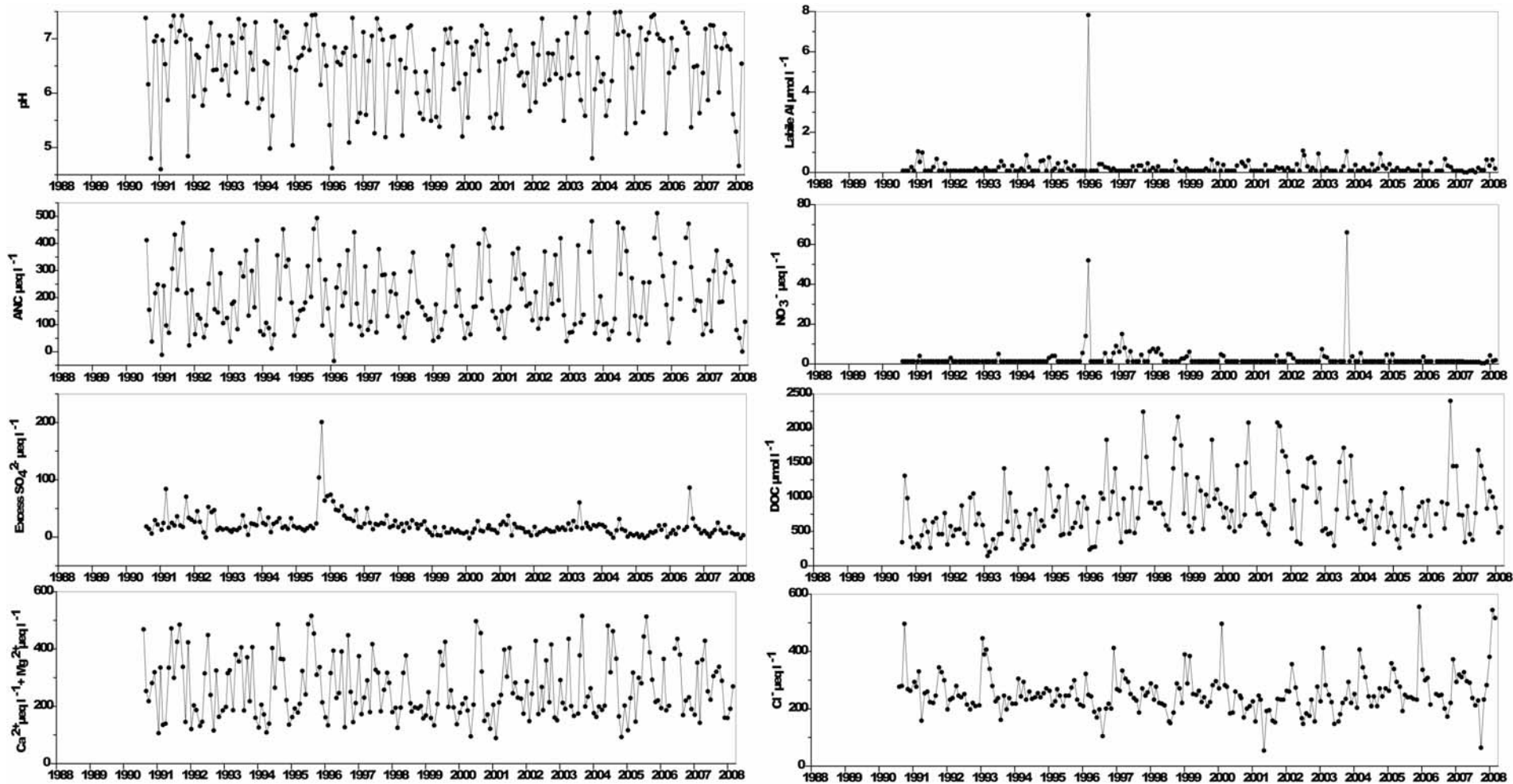
7.21.7 Thermistor data, Blue Lough



2004/2005 thermistors not recovered.

7.22 Coneyglen Burn

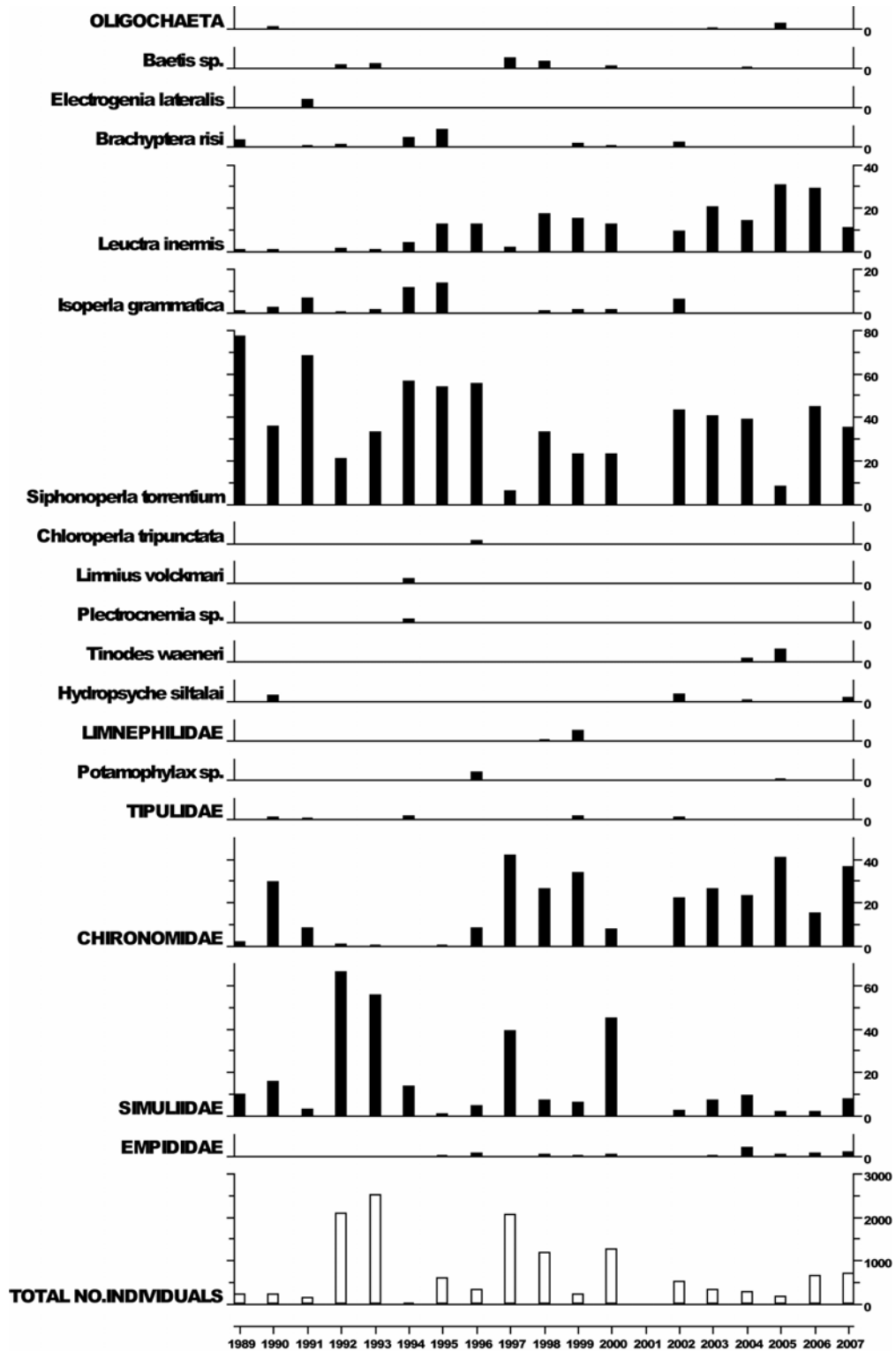
7.22.1 Spot sampled chemistry data



$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca^{2+}	Mg^{2+}	Na^+	K^+	Si	*Soluble Al	*labile Al	Cl	SO_4^{2-}	Excess SO_4^{2-}	NO_3^-	DOC
mean 1st 5 yrs	6.53	193.90	146.80	118.70	241.10	8.91	89.29	1.35	0.22	261.50	52.05	24.58	1.56	597.80
07-08 mean	6.42	206.92	149.36	125.09	261.10	10.08	133.67	0.90	0.20	300.84	40.59	9.06	1.28	899.38
07-08 std.dev	0.84	123.77	56.20	27.99	51.31	4.85	73.25	0.47	0.22	132.01	11.16	7.30	1.01	413.76

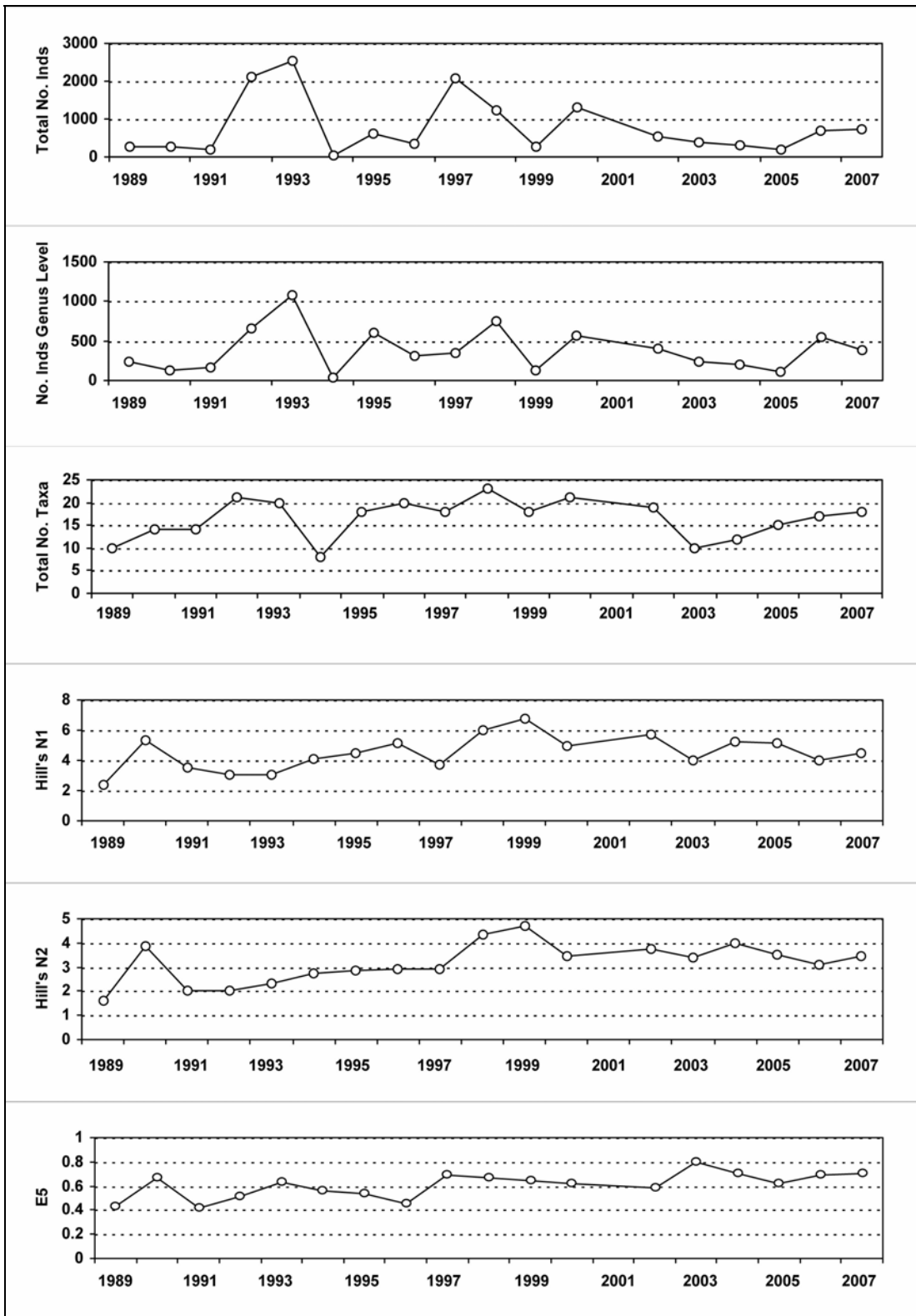
7.22.2 Macroinvertebrate data

7.22.2.1 Percentage abundance summary, Coneyglen Burn



No sampling in 2001 due to Foot and Mouth restrictions.

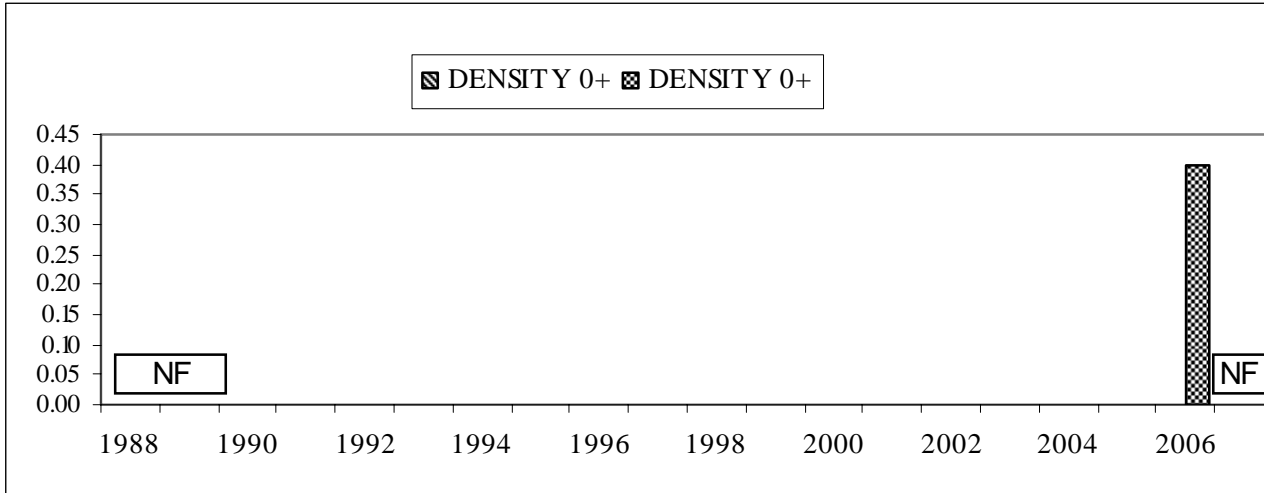
7.22.2.2 Summary statistics, Coneyglen Burn



No sampling in 2001 due to Foot and Mouth restrictions.

7.22.3 Fish data

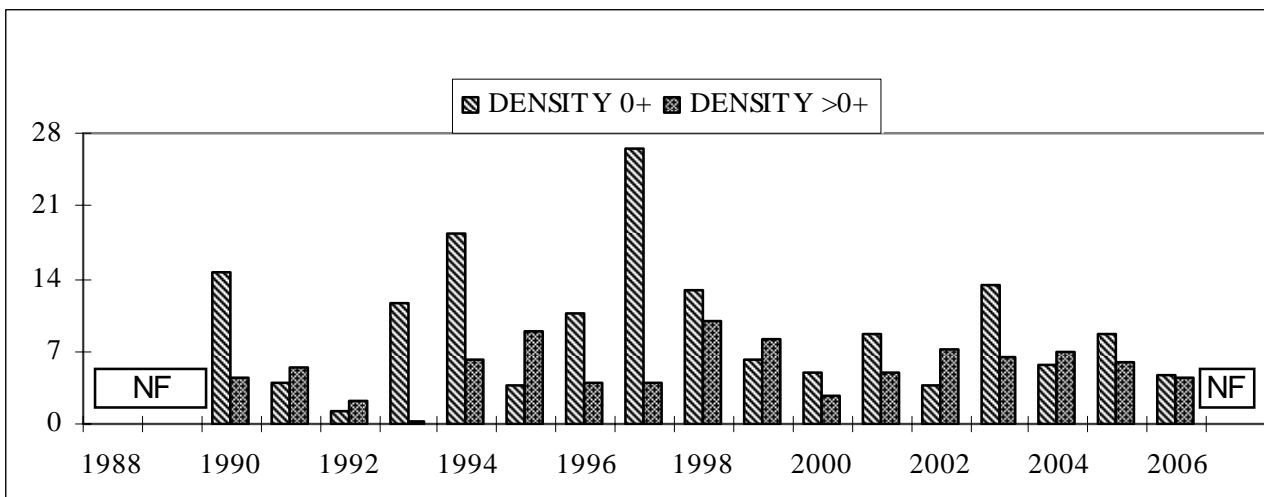
7.22.3.1 Summary of mean Salmon density (numbers 100m⁻²), Coneyglen Burn



NF = Not fished

Salmon recorded in 2006 for the first time.
No fishing in 2007 due to funding cuts.

7.22.3.2 Summary of mean Trout density (numbers 100m⁻²), Coneyglen Burn

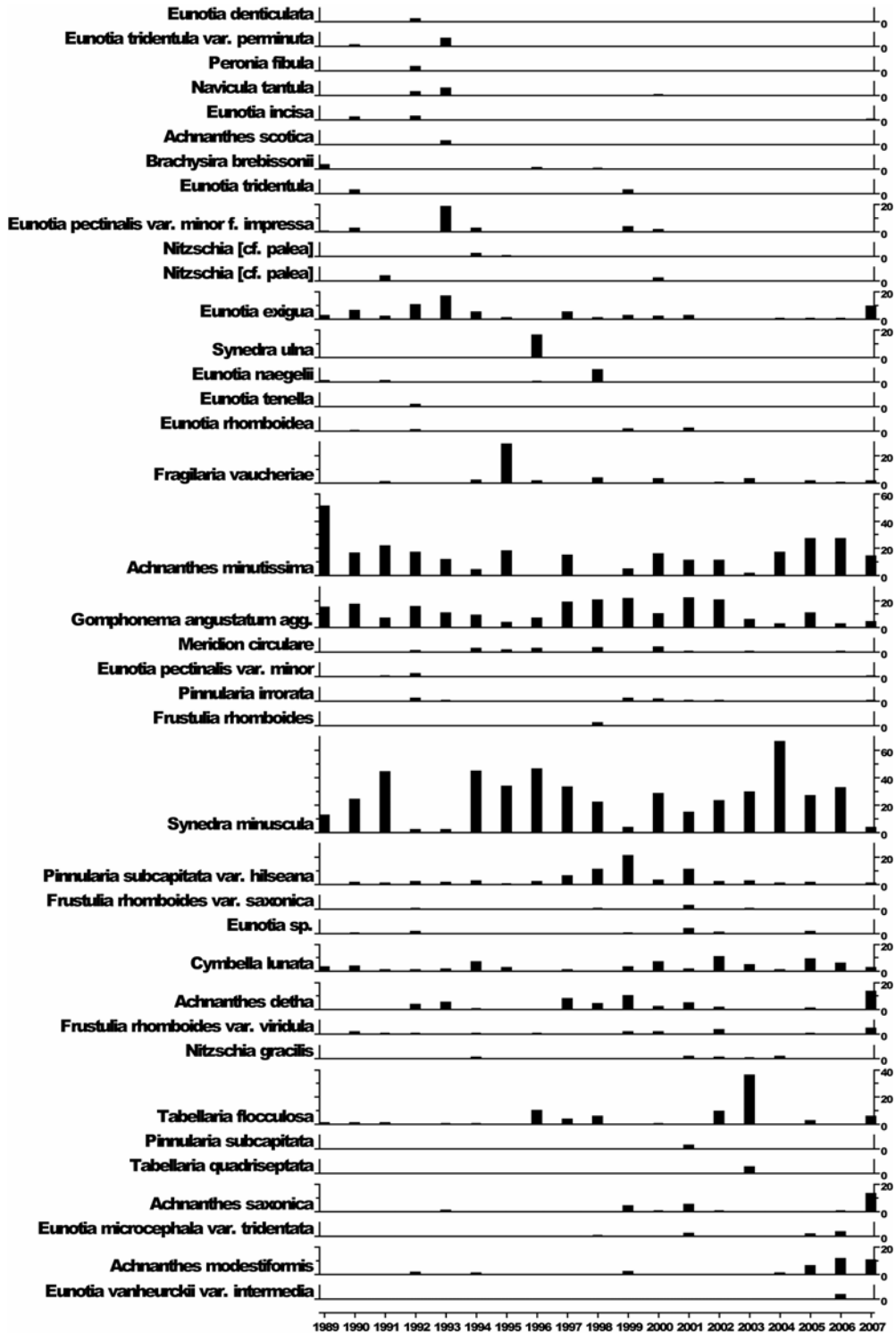


NF = Not fished

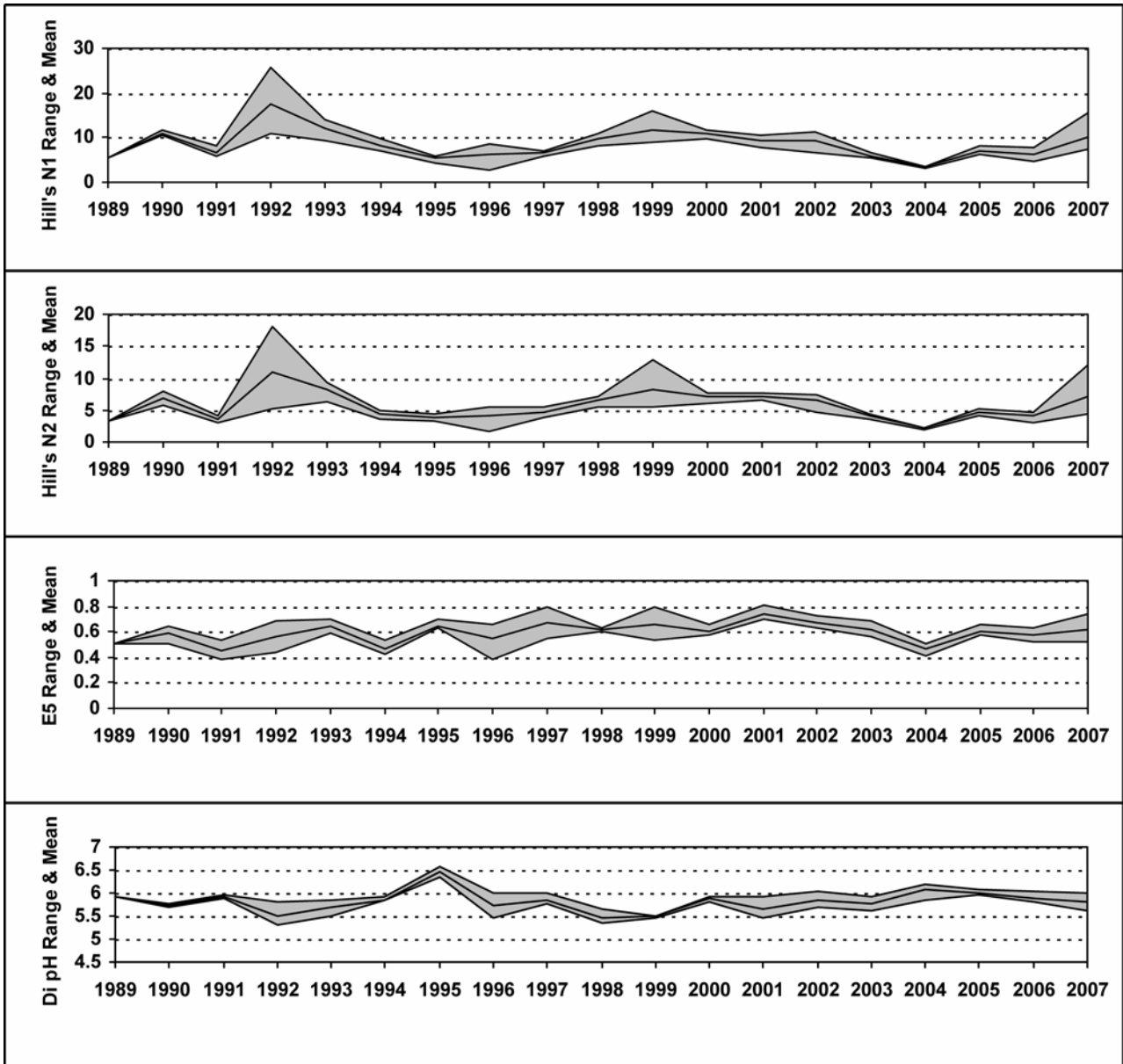
No fishing in 2007 due to funding cuts.

7.22.4 Epilithic diatom data

7.22.4.1 Percentage abundance summary, Coneyglen Burn

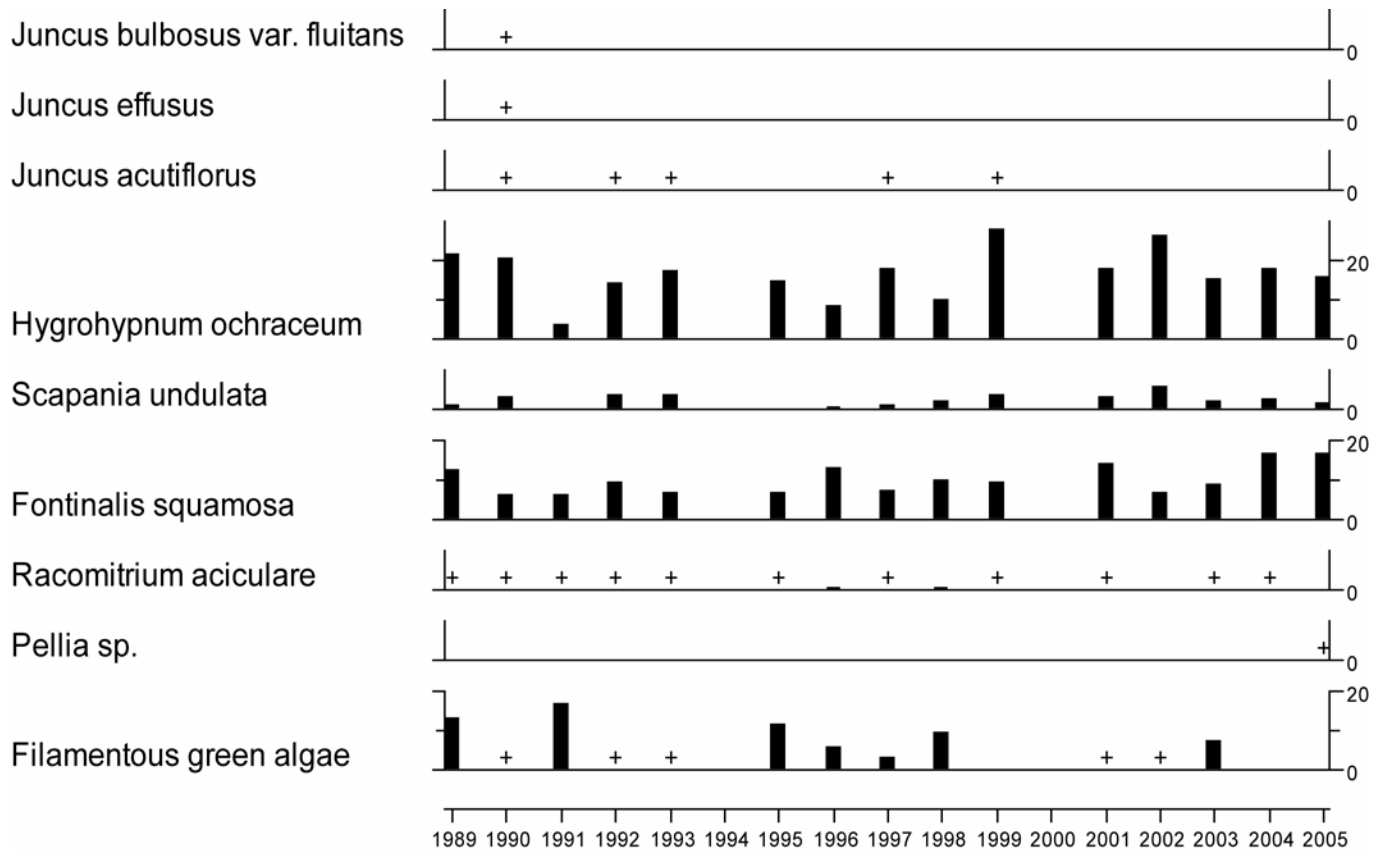


7.22.4.2 Summary statistics, Coneyglen Burn



7.22.5 Aquatic macrophyte data, Coneyglen Burn

Percentage Species Cover



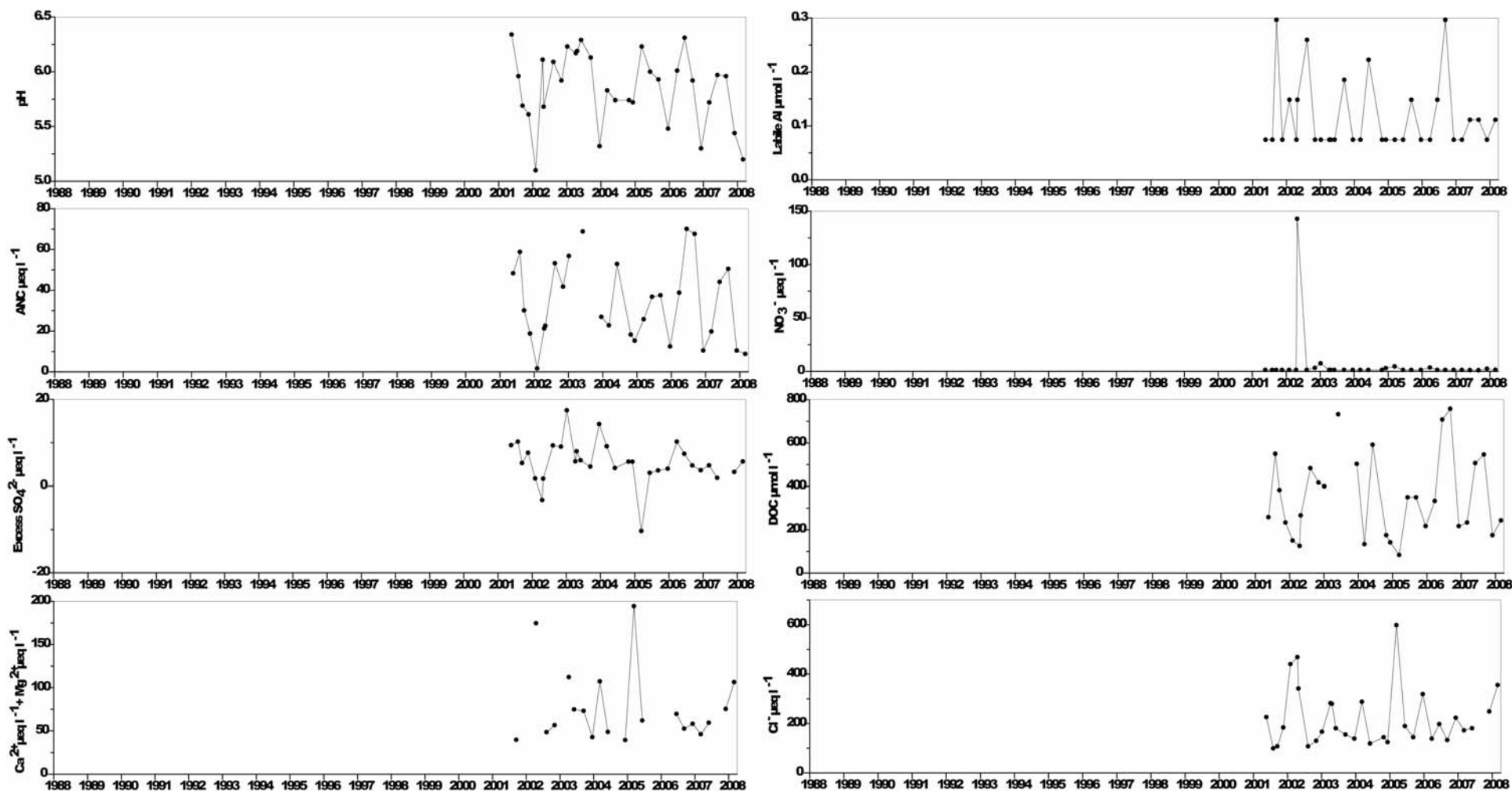
+ Represents <0.25% abundance

No survey undertaken in 2000 and 2006 due to spate conditions

No survey in 2007 due to funding cuts

7.23 Loch Coire Fionnaraich

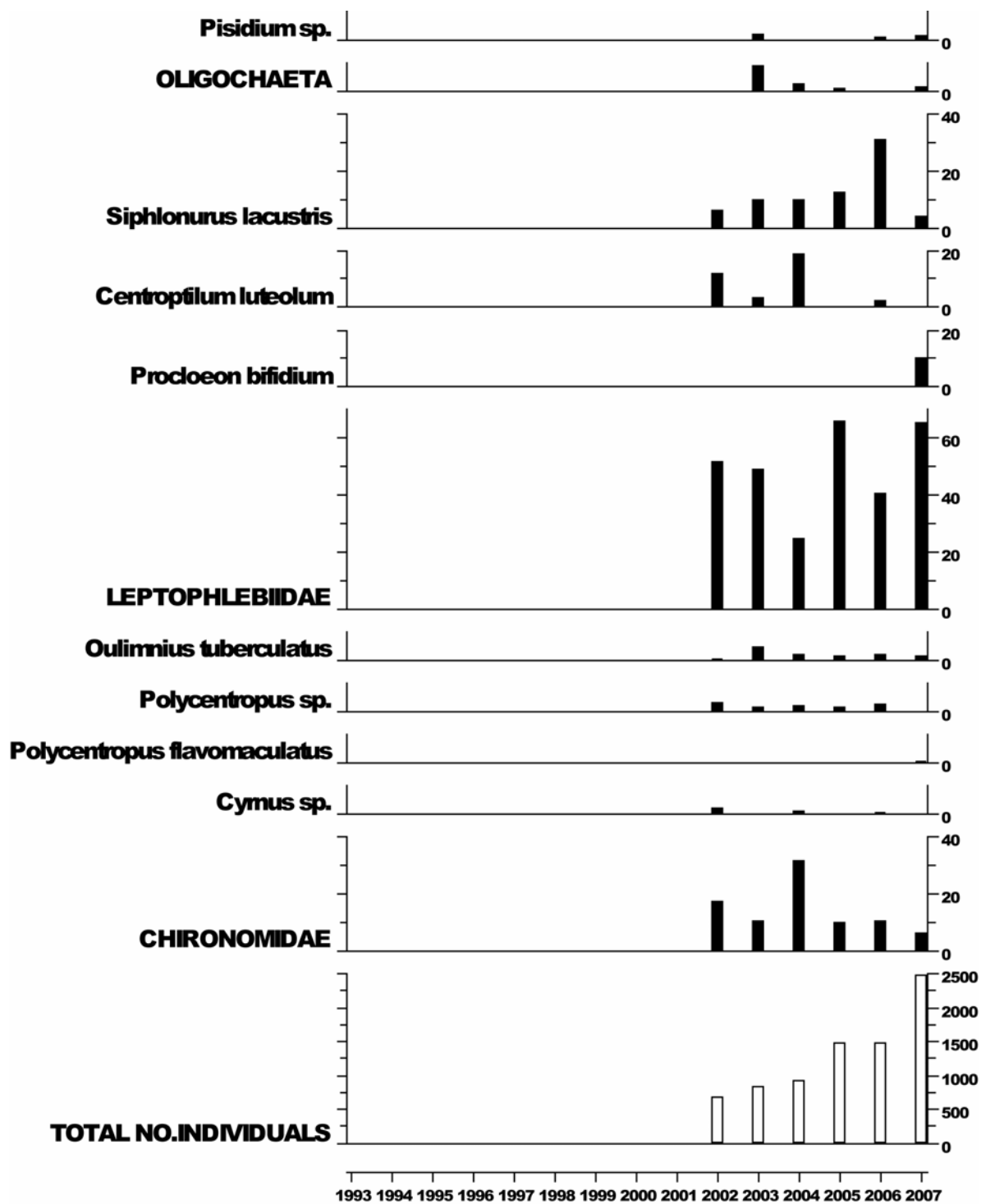
7.23.1 Spot sampled chemistry data



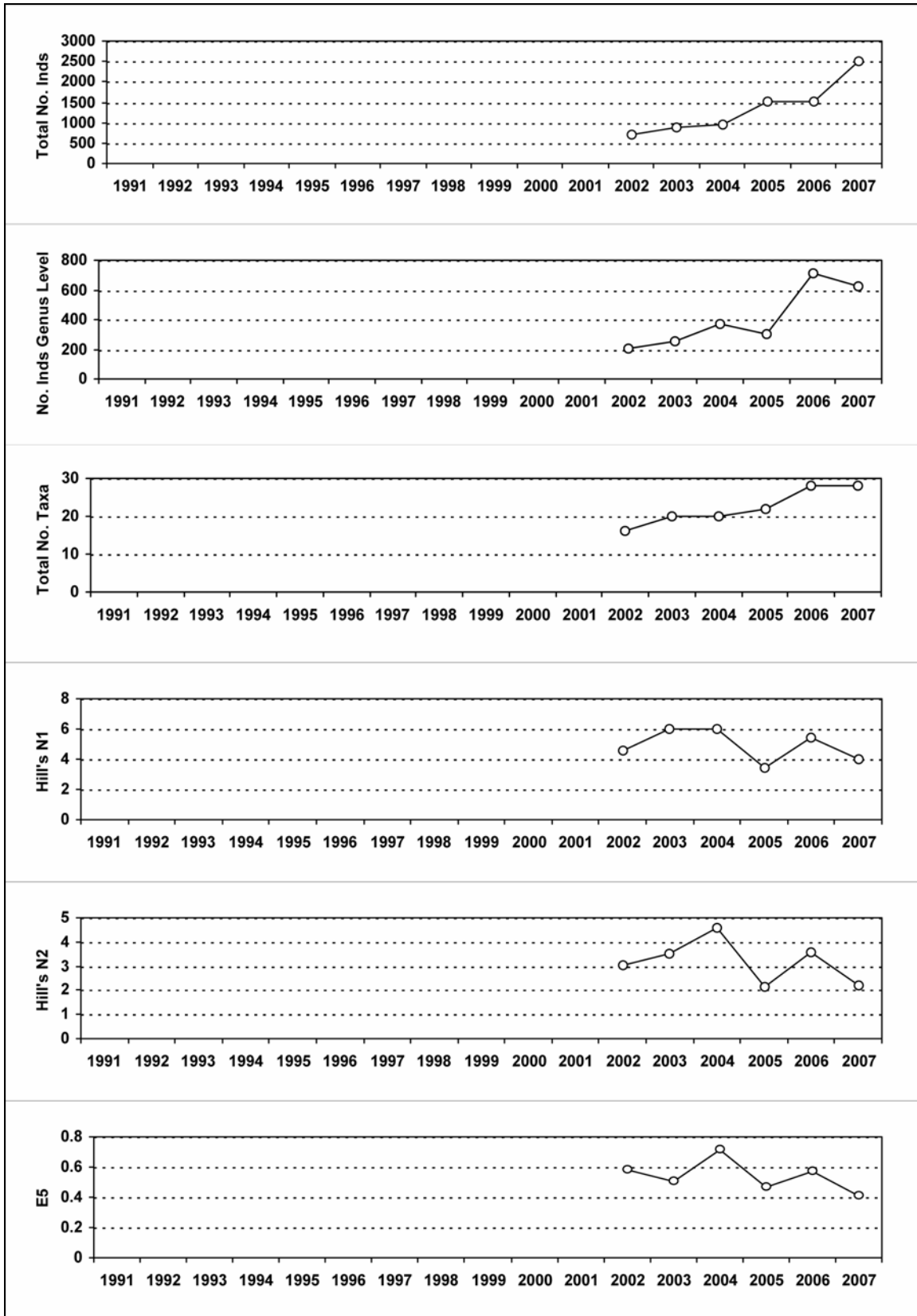
$\mu\text{eq L}^{-1}$ except * ($\mu\text{mol L}^{-1}$)	pH	*ANC	Ca^{2+}	Mg^{2+}	Na^+	K^+	Si	*Soluble Al	*labile Al	Cl	SO_4^{2-}	Excess SO_4^{2-}	NO_3^-	DOC
mean 1st 5 yrs	5.90	33.78	32.13	50.47	189.73	6.87	30.30	0.94	0.11	223.56	29.50	6.07	7.82	327.24
07-08 mean	5.64	28.45	28.04	52.33	207.21	7.62	35.99	1.43	0.08	261.41	31.06	3.66	1.49	367.58
07-08 std.dev	0.39	21.90	4.58	19.34	56.47	4.43	27.85	0.39	0.06	88.19	11.21	1.97	0.65	185.97

7.23.2 Macroinvertebrate data

7.23.2.1 Percentage abundance summary, Loch Coire Fionnaraich

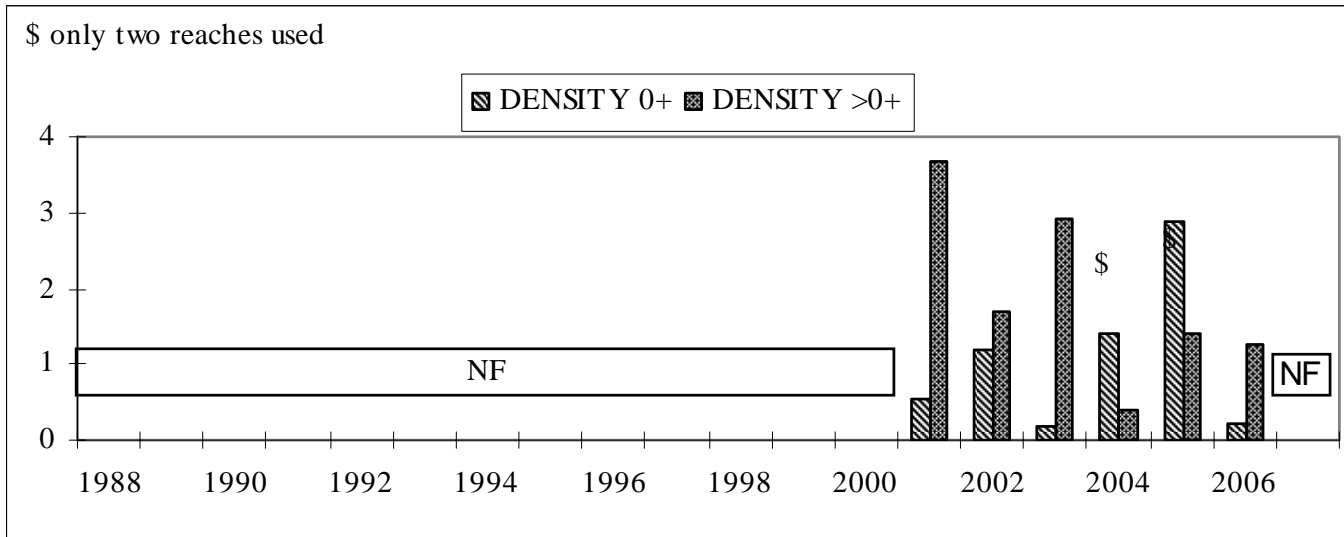


7.23.2.2 Summary statistics, Loch Coire Fionnarraich



7.23.3 Fish data (for outflow stream)

7.23.3.1 Summary of mean Trout density (numbers 100m⁻²), Loch Coire Fionnaraich

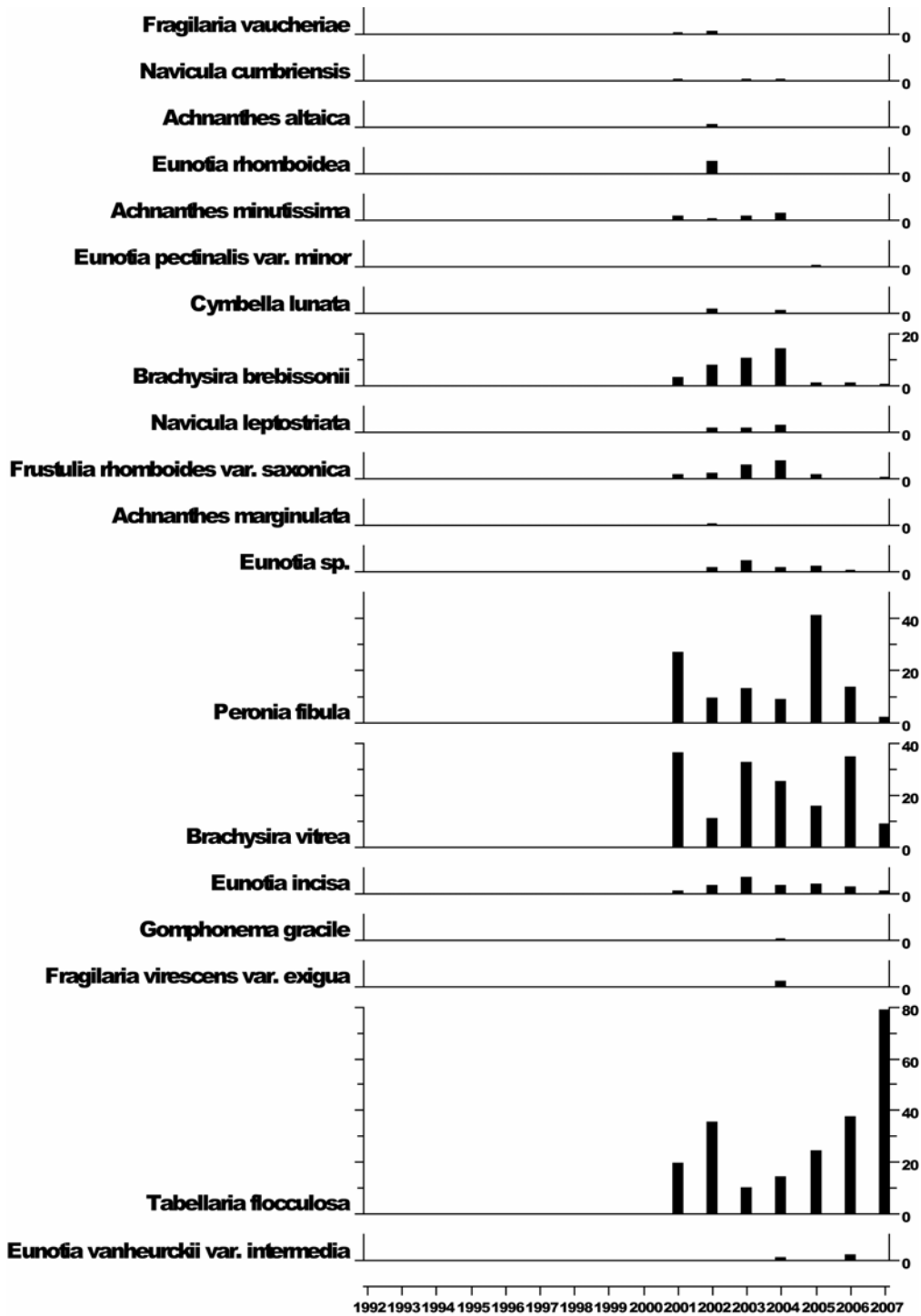


NF = Not fished

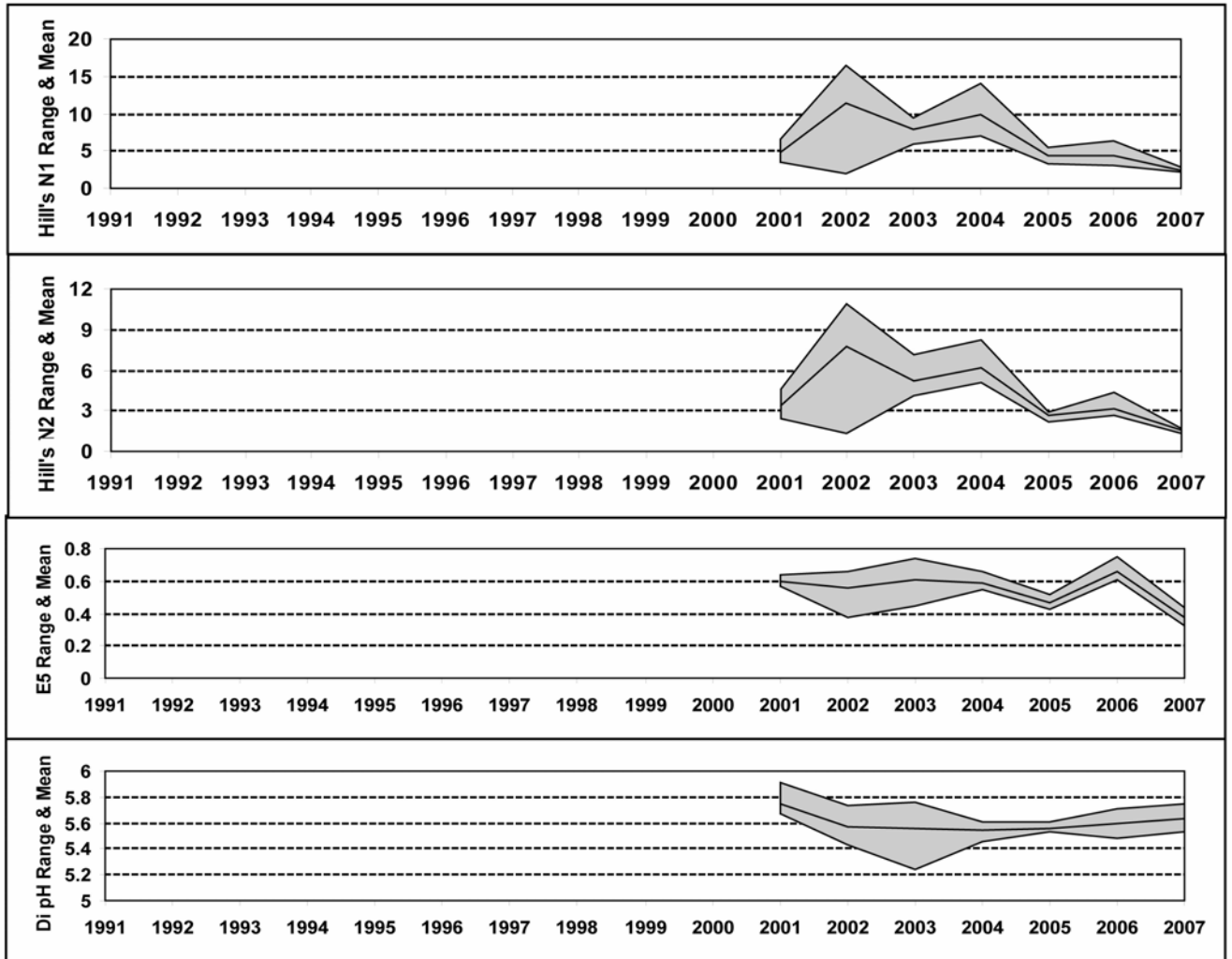
No fishing in 2007 due to funding cuts.

7.23.4 Epilithic diatom data

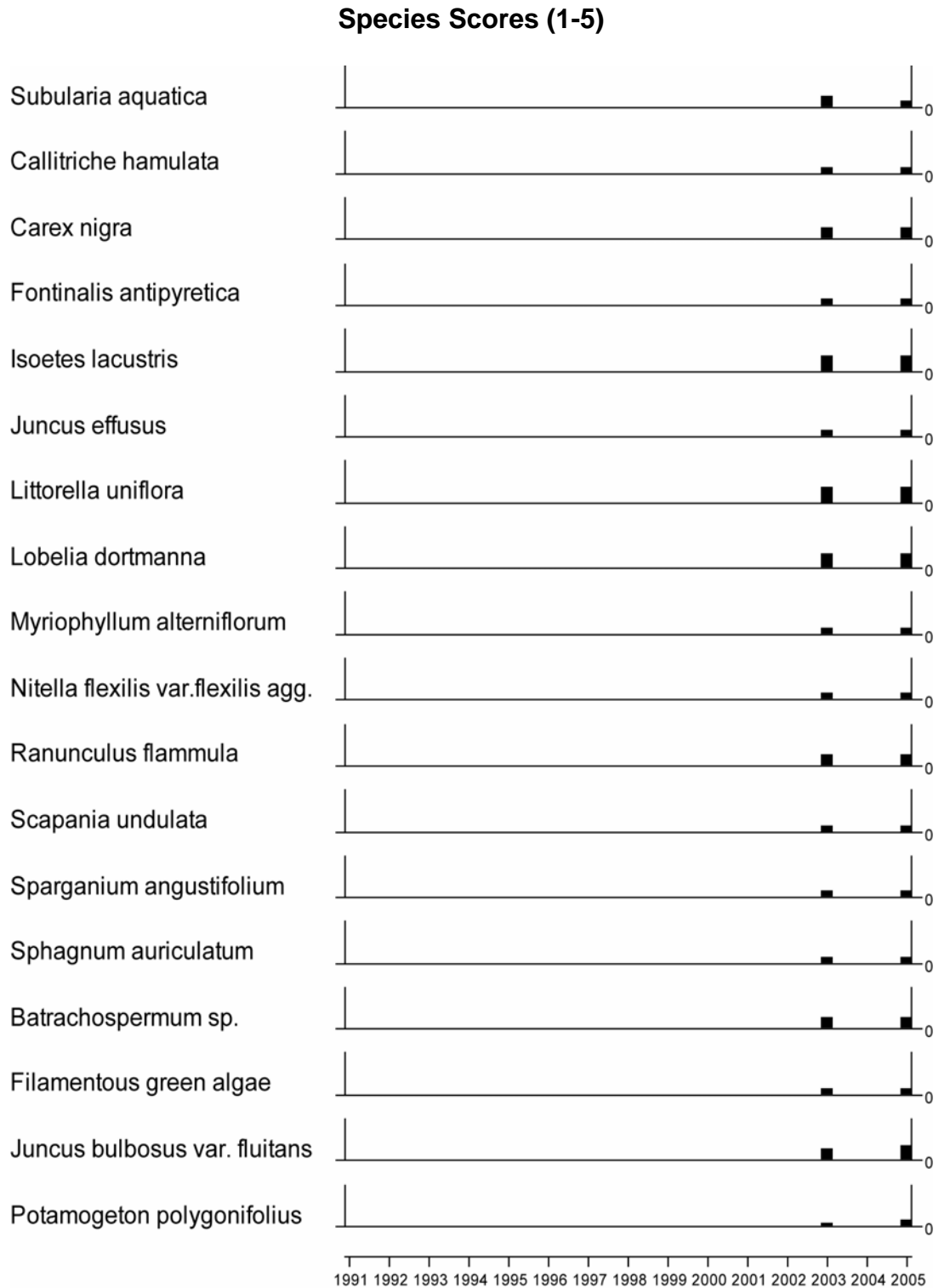
7.23.4.1 Percentage abundance summary, Loch Coire Fionnaraich



7.23.4.2 Summary statistics, Loch Coire Fionnaraich



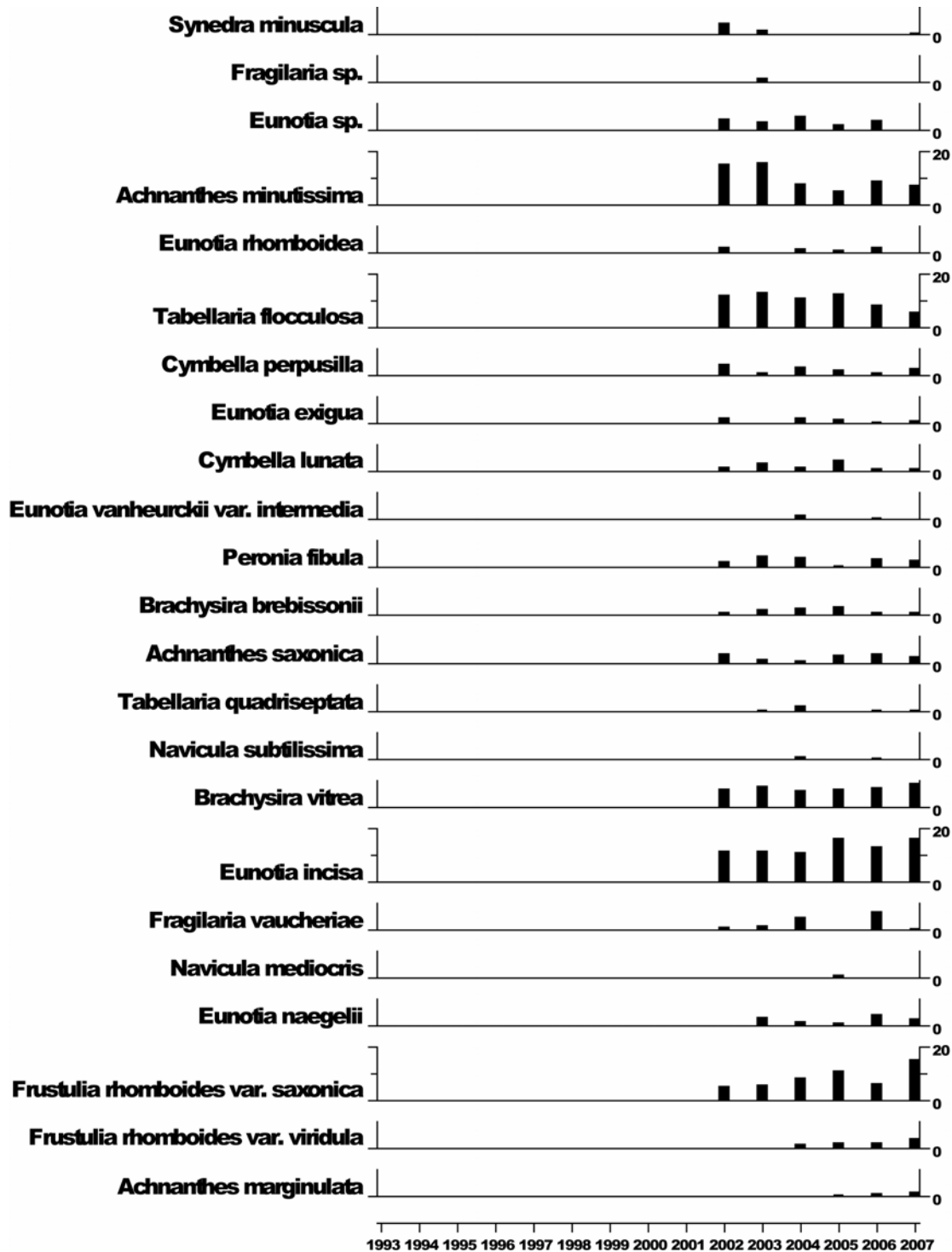
7.23.5 Aquatic macrophyte data, Loch Coire Fionnaraich



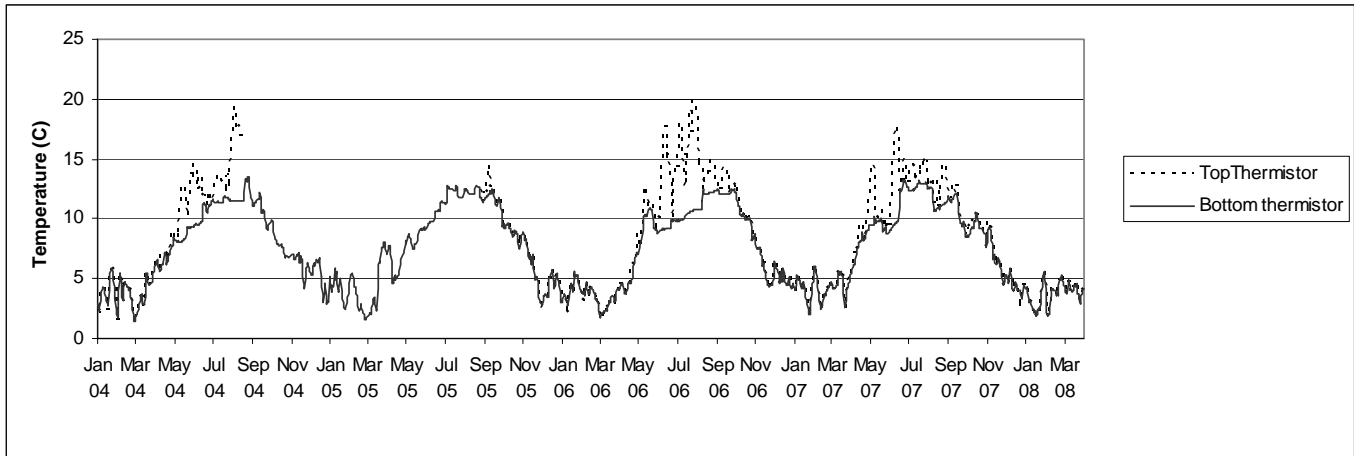
No survey in 2007 due to funding cuts

7.23.6 Sediment trap data, Loch Coire Fionnaraich

Relative percentage frequency of diatom taxa

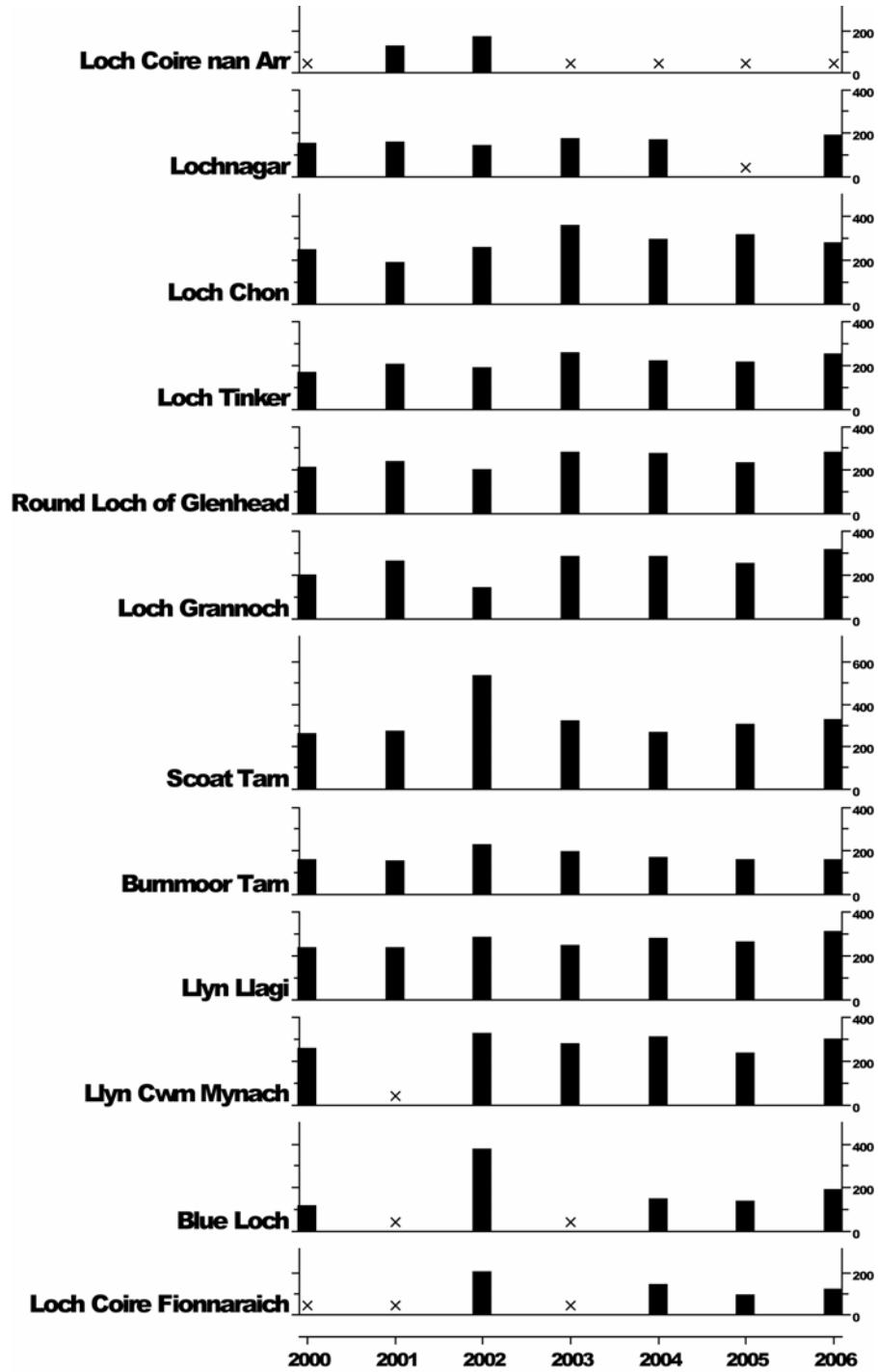


7.23.7 Thermistor data, Loch Coire Fionnaraich



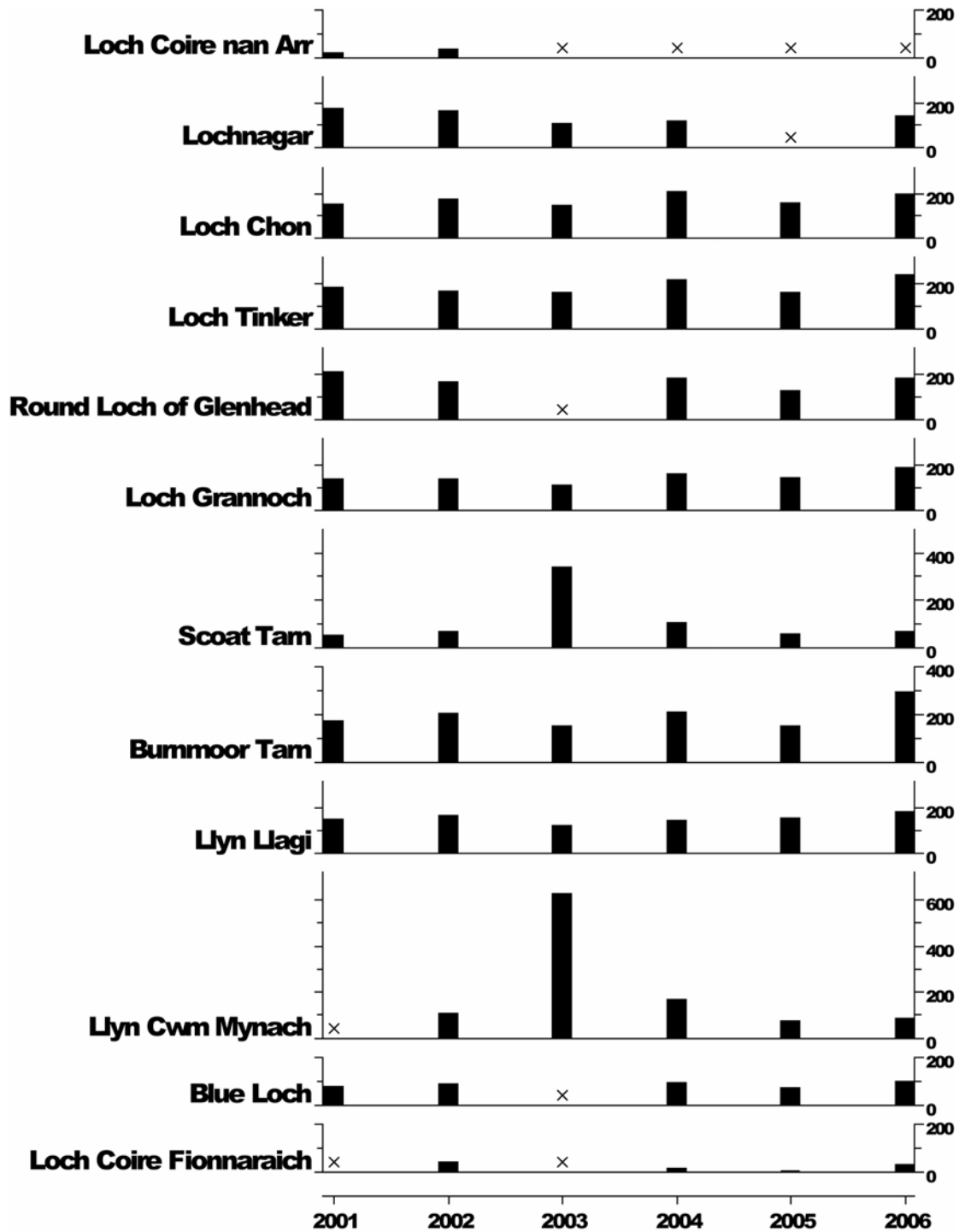
7.24 Sediment Trap Metals Data

7.24.1 Sediment Trap Mercury Concentrations (ng g⁻¹)



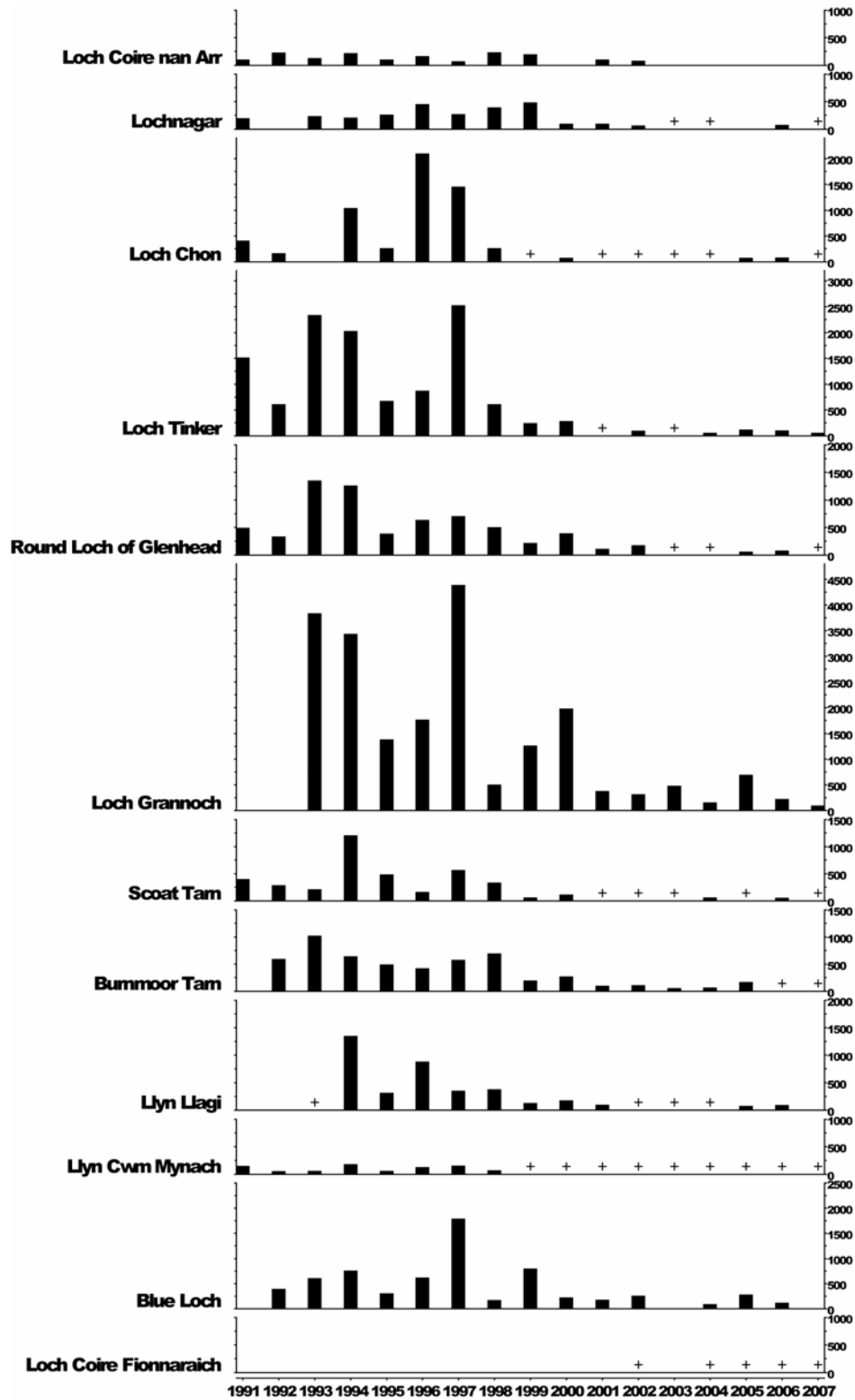
x = no sample
2007 data pending

7.24.2 Sediment Trap Lead Concentrations ($\mu\text{g g}^{-1}$)



x = no sample
2007 data pending

7.25 Sediment Trap Carbonaceous Particle Flux (no. cm⁻² yr⁻¹)



+ represents < 50 cm⁻² yr⁻¹