

The logo for Euro-limpacs, featuring the text "Euro-limpacs" in a purple, serif font, with a horizontal blue bar underneath.

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1 Introduction

This preliminary (Phase I) report on the Ephemeroptera database is part of the activities of the Eurolimpacs project Work Package 7 (Indicators of Ecosystem Health). This work package seeks to derive an improved indicator system for the assessment of aquatic ecosystem health in the context of global change. Different autoecological parameters and taxonomic indicator groups, which are supposed to be sensitive to the effects of climate change, were selected. In this work package special focus is given to the potential effects of global change on biological processes. The results here presented are part of the Task 4: Generation of an indicator value database for European freshwater species. Aim of this task is to create an indicator value database for freshwater species generated as a web-based SQL system, covering index values on various indicator functions. This database will be available on the web site www.freshwaterecology.info. Particular emphasis will be given to species of southern Europe, where for historical reasons major knowledge gaps concerning both taxonomy and ecology are apparent. This work package will give a substantial contribution to create a harmonized system of information about ecology and taxonomy for the major freshwater taxonomic groups, providing an easy to use and complete information source at the European scale. The co-operation with other European projects, especially the Fauna Europaea (www.faunaeur.org), will guarantee that the European taxa lists for the targeted taxonomic groups will be the most exact and complete. One of the most important taxonomic groups that inhabit the European freshwaters is the Ephemeroptera order. This taxonomic group was thus selected as an indicator group to assess the effects of climate change on freshwater ecosystems.

Aim of the present report is to give an update about the current activities ongoing for the WP7 concerning the Ephemeroptera group. A brief presentation of the used procedure, of the results obtained until now and of further activities is given. Specifically, aims of the work are to:

- illustrate the procedure used to create the bibliographic reference list for Ephemeroptera and provide a brief description of the literature database;
- describe how the autoecological information is being derived from the literature (Phase I) and present an overview of the kinds of results obtained up to now (examples from CNR-IRSA work); the full results of the activity will be presented later on (completion of Phase II);
- briefly present which type of analysis and on which datasets the autoecological analysis on field data will be performed (Phase III), providing some examples;
- present current and next activities with specific timetables;

The specific tasks for the 'Indicator value database for Ephemeroptera' are oriented to obtain two major results. The first one, by examining the Ephemeroptera literature, will provide a comprehensive picture of the actual knowledge concerning mayflies autoecology. The second one, by means of field data analyses, will provide new quantitative data on mayfly ecology, which will be directly related to a changing climate scenario. The literature review is a necessary tool to validate the field data being analyzed and to check likely modifications of taxa distribution and ecology. Once the database will be implemented and completed, researchers, water managers and local surveyors will gain an instrument to assess the potential effects of climate change on freshwater ecosystems, with a special focus on the effects on the main biological traits of Ephemeroptera species.

2 Ephemeroptera bibliographic search and compilation of the reference database

The aim of this task is to create a bibliographic database for the European species of the Ephemeroptera order. Different approaches for the bibliographic search were used in order to derive, as much as possible, a complete review of the literature available on European Ephemeroptera with special focus on their ecology.

2.1 Ephemeroptera bibliographic search

An on line bibliographic search was performed by means of keywords search (search type 1) after selecting the most important publishers web sites and bibliographic databases in order to cover the wider selection of resources in terms of journals, books and years availability (Table 1).

For the most important authors a specific bibliographic search was achieved to guarantee the exhaustiveness of the bibliographic list (search type 2).

Furthermore, with the purpose of covering, as much as possible, the existing Ephemeroptera literature not easily accessible with online resources, two approaches were followed: the CNR-IRSA paper collection was filed and screened (search types 3) and the bibliographic list was updated with paper lists for known Ephemeroptera experts, individually checked (search types 4).

A further description of these search types is reported below:

- 1. Keywords:** Ephemeroptera and Mayfly separately, with each of the following individually:

ecology, autecology, niche, distribution, preference , species trait, life cycle, habitat, growth, production, disturbance, disappearance, substitution, region, stream type, river type, hydrology, climate change, discharge, morphology, land use, migration, continuity, connectivity, longitudinal, zonation, temperature, pH, substrate, depth, flow, transverse, altitude, dry.

For both this keyword searches any restriction to searches in terms of years, of access availability and of source type was imposed.

- 2.** For about 25 European authors a detailed search was performed using mainly on line resources as Google Scholar and ISI Web of Knowledge plus the resources used for keyword searches (Table 1);
- 3.** The CNR-IRSA printed papers collection were indexed and filed;
- 4.** With the aim of creating the most complete reference list, some already available lists, already prepared by individual experts, were consulted. Main sources were: a) “A Working Bibliography of Literature on the Mayflies (Insecta: Ephemeroptera) of the World” by M. Hubbard (FAMU University, USA), b) “the Mayfly Bibliography (from 1999 to 2004)” by P. Grant (SWOSU University, USA) published on The Mayfly Newsletter (Table 1) and c) an export of the electronic bibliographic database (partim) completed by C. Belfiore (Tuscia University, Italy).

Table 1. On line resources consulted. Only about the 10% of journals consulted are related with ecology and zoology.

Name	Web site	Search type	No. of Journals
Electronic publishers			
Wiley	http://www3.interscience.wiley.com/search	1&2&3	528
Elsevier / Academic Press	http://www.elsevier.com/	1&2&3	2125
Kluwer / Springer	http://www.springerlink.com/	1&2&3	1450
Blackwell synergy	http://www.blackwell-synergy.com/	1&2&3	845
Journal of the North American Benthological Society	http://jnabs.allenpress.com/jnabsonline/?request=search-simple	1&2&3	1
American Chemical Society	http://pubs.acs.org/	1&2&3	30
		Total	4979
Database			
ISI - Web of Knowledge	http://www.isiwebofknowledge.com/	1&2&3	> 5000
Cilea Science Direct	http://scienceserver.cilea.it/	1&2&3	ca. 4500
Other resources			
Google Scholar	http://scholar.google.com/	3	-
Ephemeroptera Galactica	http://www.famu.org/mayfly/	4	-
The Mayfly Newsletter	http://faculty.swosu.edu/peter.grant/research.htm	4	-

2.2 Citations management

For each reference found the following procedure was adopted:

- the PDF file was downloaded, when available, and renamed following this naming rule: First author name and initials, year and first page number (belfioreC1998p45.pdf);
- the citation manager export, when available, was imported in EndNote format and also, when available, the Digital Object Identifier (DOI) number was recorded;
- the EndNote citation was exported to Microsoft Windows Excel in a standard journal format (Zoo Biology).

EndNote is a citation management database. It is dedicated to storing, managing, and searching for bibliographic references in a reference library. Whenever the citation manager export was not available, the citation was manually composed following the same formal rules (i.e. the Zoo Biology format).

In the Excel spreadsheet, for each reference information concerning the associated PDF file name, the DOI number, the catalogue code for printed papers and a progressive unique numeric code was added in different columns. Once the reference list had been compiled, the first author name, the year of publication, the country of the first author and the text language were extrapolated. Furthermore, a count of the number of times each first author is present in the database was performed.

2.3 Digitalization of the Ephemeroptera bibliographic database

The Excel file containing all the references information was then imported in Microsoft ACCESS. A description of the fields imported is presented in Table 2.

Table 2. Ephemeroptera bibliographic database field description.

Field	Type	Note
Source	Text	Source of the reference (e.g. FAMU, SWOSU, CNR-IRSA, UNIMI, SLU, UGR, etc.)
code	Number	Unique code number
reference	Memo	Complete reference entry
DOI number	Hyperlink	DOI number linked with the dx.doi.org server
.filename.pdf	Hyperlink	Link to the associated paper in PDF format file
Printed Copy	Text	Availability and code of the hard paper manuscripts
Year	Number	Year of the paper
Authors	Text	Author/s name/s
1stAuthor	Text	First Author name
Country1stAuthor	Text	Working country of the first author
1AuthPub	Text	Number of references on the database of the first author
Language	Text	Language of the paper
Keywords	Text	All the related keywords
Note	Hyperlink	External on-line resources where the paper is freely available

To guarantee all the advanced functionalities of the database, mainly the hyperlink functions, the ACCESS file must be in the same folder with the papers in PDF format file and must be connected with the internet.

2.4 Ephemeroptera bibliographic database description

A brief description of the mayfly database (Figure 1) and some results obtained will be here presented. The mayfly bibliographic list, up to now, contains:

- ca. 2650 reference entries (Annex 1).
- ca. 720 papers in PDF format, which were stored and connected to the reference db
- ca. 300 DOI number in order to guarantee for the reference db a lifetime link with on line resources
- ca. 550 printed papers from the CNR-IRSA library indexed and associated to the reference db.

The reference list contains information on Ephemeroptera ecology and taxonomy. Concerning the type of printed papers, the most represented are journal articles, but also books, abstracts and various kinds of grey literature (e.g. report, dissertation) are listed.

The time interval covered by the references goes from the year 1681 up to 2006 (Figure 2). The most represented period is the twentieth century with the 78% of the overall publications, while the most contemporary one, from 2000 to 2006, with the 18% of the references, represents a consistent part of the bibliographic catalogue.

Source	ord de	reference	DOI number	Filenamepdf	Printed copy	Year	Author
CNR-IRS	1	Aagaard K, Solem JO, Bongard T, Hanssen O. 2004. Studies of aquatic in	http://dx.doi.org	\AagaardK2004	-	2004	Aagaard K
CNR-IRS	2	Aagaard K, Solem JO, Nest T, Hanssen O. 1997. The macrobenthos of th	http://dx.doi.org	\AagaardA1997	-	1997	Aagaard K
Hubbard	3	Abbott JC, Stewart KW, Moulton II SR. 1997. Aquatic insects of the Big Tl	-	\abbott1997p3	-	1997	Abbott JC,
Hubbard	4	Adámek Z, Rauser J. 1977. Príspevek k otázce cistoty vodních toku Morav	-	Not available at	-	1977	Adámek Z,
NABS	5	Adámek Z, Sukop I. 2001. The role of supplementary feeding in food comp	-	Not available at	-	2001	Adámek Z,
Hubbard	6	Adámek Z. 1977. Vliv pstruharskeho zavodu na zoobentos a kvalitu vody v	-	Not available at	-	1977	Adámek Z
CNR-IRS	7	Adis J. 2002. Terrestrial invertebrates inhabiting lowland river floodplains of	http://dx.doi.org	\AdisJ2002p71	-	2002	Adis J
Hubbard	8	Agnew JD. 1965. A note on the fauna of the lower Orange River. South Afr	-	Not available at	-	1965	Agnew JD
Hubbard	9	Agnew JD. 1978. The Pgm locus in Baetis harrisoni (Insecta: Ephemeropt	-	Not available at	-	1978	Agnew JD
Hubbard	10	Akers A, Peters WL, Peters JG. 2003. Radima edmundsorum, a new geni	-	\akersa2003p8	-	2003	Akers A, F
Hubbard	11	Alayo-D P. 1974. Guia Elemental de la Aguas Dulces de Cuba. Torreia (N	-	Not available at	-	1974	Alayo-D P
Hubbard	12	Alayo-D P. 1977. Introduccion al estudio des orden Ephemeroptera en Cul	-	Not available at	-	1977	Alayo-D P
Hubbard	13	Albarda H. 1878. Descriptions of three new European Ephemerae. Enton	-	Not available at	-	1878	Albarda H
Hubbard	14	Albarda JH. 1889. Catalogue raisonné et synonymique des Névroptères ot	-	Not available at	-	1889	Albarda JH
Hubbard	15	Alba-Tercedor J, Baez M, Soldán T. 1987. New records of mayflies of the C	-	Not available at	-	1987	Alba-Terce
Hubbard	16	Alba-Tercedor J, Derka T. 2003. Torleya nazarita sp. n., a new species fro	-	\alabaj2003p23	-	2003	Alba-Terce
CNR-IRS	17	Alba-Tercedor J, El-Alami M. 1999. Description of the nymphs and eggs of	-	\alabaj1999p241	-	1999	Alba-Terce
Hubbard	18	Alba-Tercedor J, El-Alami M. 1999. Description of the nymphs and eggs of	-	\alabaj1999p214	-	1999	Alba-Terce
Hubbard	19	Alba-Tercedor J, Flannagan J. 1995. 2 New Canadian Species of the Genu	-	Not available at	-	1995	Alba-Terce
Hubbard	20	Alba-Tercedor J, Jáimez-Cuellar P. 2003. Checklist and historical evolutio	-	\alabaj2003p91	-	2003	Alba-Terce
Hubbard	21	Alba-Tercedor J, Jáimez-Cuellar P. 2001. Primera cita de Caenis pseudor	-	\alabaj2001p132	-	2001	Alba-Terce
Hubbard	22	Alba-Tercedor J, Jiménez-Millán F. 1978. Larvas de Efemerópteros de las	-	\alabaj1978p91	-	1978	Alba-Terce
Hubbard	23	Alba-Tercedor J, Malzacher P. 1986. A New Synonym in the Genus Caeni	-	\alabaj1986p55	-	1986	Alba-Terce
Hubbard	24	Alba-Tercedor J, McCafferty WP. 2000. Acentrella feropagus, new species	-	Not available at	-	2000	Alba-Terce
Hubbard	25	Alba-Tercedor J, Mosquera S. 1999. Caenis chamie, a new species from C	-	\alabaj1999p61	-	1999	Alba-Terce
Hubbard	26	Alba-Tercedor J, Pardo I. 1991. Primera cita de Baetis catharus Thomas,	-	Not available at	-	1991	Alba-Terce
Hubbard	27	Alba-Tercedor J, Peters WL. 1985. Types and Additional Specimens of Ep	-	Not available at	-	1985	Alba-Terce
Hubbard	28	Alba-Tercedor J, Picazo-Muñoz J, Jáimez-Cuellar P. 2000. Presencia de L	-	\alabaj2000p221	-	2000	Alba-Terce
Hubbard	29	Alba-Tercedor J, Picazo-Muñoz J, Jáimez-Cuellar P. 2000. Primera cita de	-	\alabaj2000p224	-	2000	Alba-Terce
Hubbard	30	Alba-Tercedor J, Puig García MA. 2000. Labiobaetis tricolor (Tshernova, 19	-	\alabaj2000p225	-	2000	Alba-Terce
Hubbard	31	Alba-Tercedor J, Sánchez-Ortega A. 1982(1984). Presencia del género Toi	-	Not available at	-	1982	Alba-Terce
Hubbard	32	Alba-Tercedor J, Sánchez-Ortega A. 1988. Un método simple para evaluar	-	Not available at	-	1988	Alba-Terce
Hubbard	33	Alba-Tercedor J, Sánchez-Ortega A. 1991. Overview and Strategies of Eph	-	Not available at	-	1991	Alba-Terce
Hubbard	34	Alba-Tercedor J, Sowa R. 1986. Two interesting Rhithrogena Eaton from S	-	Not available at	-	1986	Alba-Terce
Hubbard	35	Alba-Tercedor J, Sowa R. 1987. New Representatives of the Rhithrogena-C	-	Not available at	E7-D-16	1987	Alba-Terce
Hubbard	36	Alba-Tercedor J, Studemann D. 1997. Upon the Identity of Mayflies	-	Not available at	-	1997	Alba-Terce

Figure 1. Preview of the main bibliographic database page.

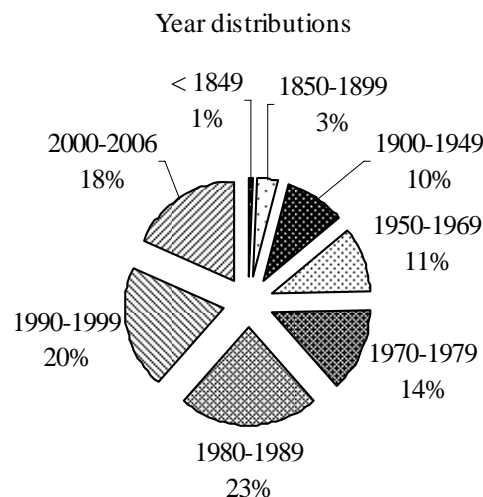


Figure 2. Years distributions of bibliographic entries.

The occurrence of different languages in the bibliographic list was also analysed (Figure 3), and as expected the most common language resulted English with the 53% of the overall entries, followed by German (15%) and French (14%). Italian, Russian and Spanish resulted as relevant languages and were present respectively with 6%, 5% and 4%.

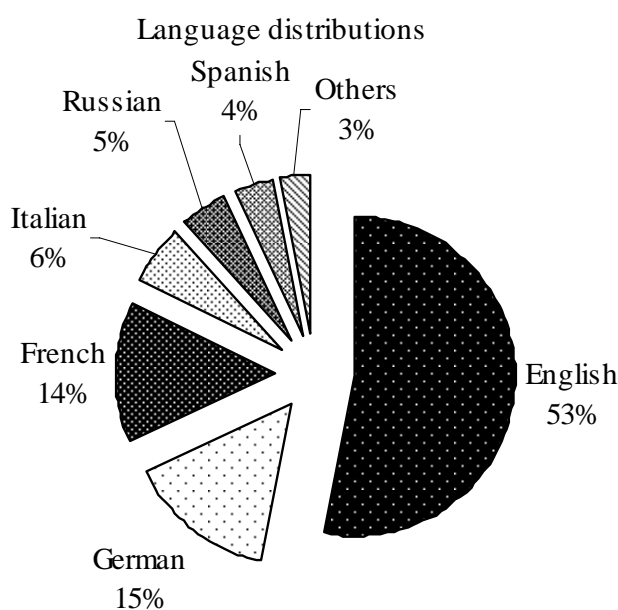


Figure 3. Language distribution of bibliographic entries.

Furthermore, in the bibliographic database the working country of the main author(s) was recorded in order to have an easy characterisation of the geographic area of interest of the specific papers, even if some inexactness are expected. Looking at the European authors, the best represented countries are Germany, France and Italy. Nonetheless, authors from the United Kingdom, Russia, Spain and Switzerland resulted present with an important contribution (Figure 4).

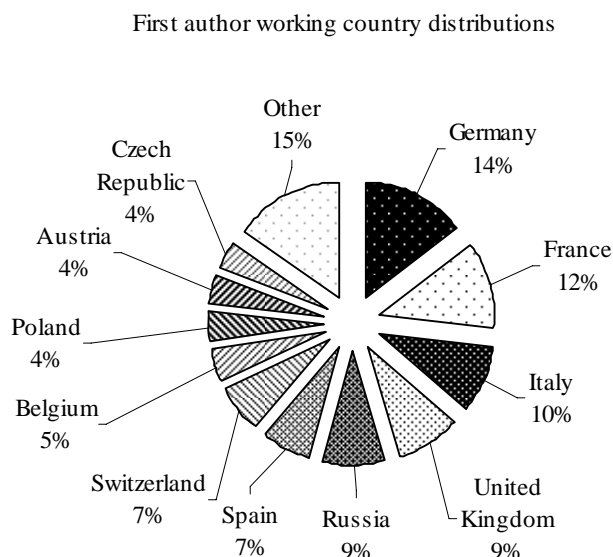


Figure 4. First author working country distribution of the bibliographic entries.

Once the bibliographic reference database have been created, the succeeding step is to review the information contained in the papers in order to compile the autoecological matrix focused on potential effects of climate change on biological traits and distribution of Ephemeroptera. This matrix will be a useful tool to evaluate if future climate change will modify the biological structure and composition of freshwater ecosystems.

3 Autoecological matrix compilation

During the Euro-limpacs project, the study of autoecological preferences is oriented at the comprehension of the relationship between climate changes and changes in species distribution and community assemblage of freshwater biocoenosis. These relationships are investigated at two different spatial scales: at large scale, e.g. ecoregions, and at a smaller scale e.g. site or habitat. For those reasons a table of autoecological preferences has been produced, which is homogenous for all the investigated taxonomic groups.

The main categories of traits and autoecological parameters used for the Euro-limpacs project are distribution and occurrence, preferences regarding temperature, altitude, pH, salinity and microhabitat. Information about the life cycle and history are also recorded, plus other general biological traits (e.g. locomotion types).

A complete list of the new variables collected during the Euro-limpacs project is listed in following table 3.

Table 3. Complete list of new variables collected by the Euro-limpacs project and scoring system.

Variable	Scoring system
altitude	10 points
altitude WFD	presence/absence
aquatic stage	10 points
disjunctive isolated populations	one assignment
dispersal capacity	one assignment
dissemination strategy	presence/absence
distribution according to Illies	presence/absence
endemism	one assignment
feeding types	10 points
FFH species	one assignment
flight (emergence)-period I	one assignment
flight (emergence)-period II	10 points
habitat specialist	one assignment
hydrologic preference	10 points
indicator species in terms of	one assignment
invasive (alien) species	one assignment
larval development cycle	10 points
life duration	one assignment
locomotion type	10 points
occurrence in large quantities	one assignment
ph preference	one assignment
preference for a certain current situation	one assignment
preference for a certain microhabitat	10 points
r-, K-strategy	one assignment
rare species (ecoregion)	one assignment
Red list species (national/regional)	one assignment
reproduction	one assignment
reproductive cycles per year	one assignment
resistance form	10 points
resistance/resilience to droughts	one assignment
respiration	presence/absence
salinity	10 points
sensitive species	one assignment
stream zonation preference	10 points
temperature preference I	10 points
temperature preference II	one assignment

3.1 Ephemeroptera autoecological matrix: description

The AQEM list of Ephemeroptera was revised in order to guarantee the most up to date and correct taxonomic list. The results of the Fauna Europaea, a project funded by the European Commission (EVR1-1999-20001) were consulted, because the Fauna Europaea project has assembled a database of the scientific names and distribution of all living multi-cellular European land and fresh-water animals. This result was obtained thanks to experts in taxonomy, who have provided data of all species currently known in Europe (<http://www.faunaeur.org/>). The Ephemeroptera group coordinators were A. Thomas (F) & C. Belfiore (I)(2004). Another useful result gained by this project was a list of synonym for the European Ephemeroptera species, which was used to search for information on species recorded with not accepted names. The final taxonomic list here considered includes 18 families, 50 genera and 339 species.

Once defined the taxalist, the literature review was undertaken. In order to guarantee that information contained in each article is easily accessible and to simplify the creation of a summary of information obtained, each reviewed article was kept separated for each species. That's means that for instance if 29 papers are providing information about autoecology of *Caenis horaria*, in correspondence of the row of *Caenis horaria* twenty nine more rows were added, which contain information retrieved from each article. Keeping information separated seems also to facilitate the check of the review of gathered information and will simplify the procedure of creating the summary of the information obtained from different sources (e.g. regional literature, experts). An example is provided in figure 5.

FAMILY	NAA	SPECIES/SUBSPECIES	code	Bibliography source reference	hydrologic preference (10 points)					
					eupotamon	parapotamon	plesiopotamon (incl.)	palaeopotamon (incl.)	temporary water bodies	source
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)								
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		20 Alba-Tercedor J, Jáimez-Cuellar						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		311 Bauernfeind E, Humpesch UH. 20						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		316 Bauernfeind E, Weichselbaumer F						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		403 Belfiore C. 1983. Ephemeropteri (Ep	5			5		403
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		414 Belfiore C. 1988. Progressi nella c						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		888940 Bisogni GL, Ceppil L. 1999 - Cros				10		888940
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		888906 Buffagni A, Erba S, Origgi G. 200	5			5		888906
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		5467 Buffagni A. 1991. Biologia ed ecol						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		6021 Caverzasi F. AA 1994-1995. Note	5			5		6021
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		1499 Elliott JM, Humpesch UH, Macar	5			5		1499
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		1554 Extence CA, Balbi DM, Chadd RF						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		6033 Glazacow A. 1994. - Mayflies (E	4			6		6033
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		1940 Grandi M. 1960. Ephemeroidea. F.				10		1940
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		2118 Haybach A. 1998. Die Eintagsflieg						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		6001 Jazdzewska T. 1997. Mayflies (Eph	10					6001
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		2469 Johnson RK, Goedkoop W. 2002						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		6003 Klonowska-Olejnik M. 1997 Epher	10					6003
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		5458 Lingdell PE, Muller K. 1979. Dagsfl						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		6048 Maitland PS. 1980. The habitats o	3			7		6048
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		3100 Malzacher P. 1986. Diagnostik, Ve						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		4208 Sartori M, Dethier M. 1995. Faune				10		4208
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		4264 Savolainen E, Saaristo ML. 1981. C	5			5		4264
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		6000 Schmidt-Kloiber A. 1997. Epheme	4		3	3		6000
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		4439 Soldán T, Zahradkova S, Helesic	2			8		4439
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		4507 Sowa R. 1980. La zoogeographie,						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		4593 Studemann D, Landolt P, Sartori	5			5		4593
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		6046 Tesouro M, Bielli E, Cotta Parnus						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		6042 Verneaux J. 1972. Faune dulcaquid						
Caenidae		<i>Caenis horaria</i> (Linnaeus, 1758)		6002 Wise EJ, O'Connor JP. 1997. Obs				10		6002

Figure 5. Example of bibliographic review for *Caenis horaria*.

3.1.1 Data supply for different geographical areas

In order to guarantee as much as possible that the different geographic areas present in Europe were considered, the support of various Project partners was needed. As a consequence, a range of activities from different European areas are ongoing. A contribution to the autoecological matrix compilation was provided or is ongoing by different partners with a regional criterion:

- CNR-IRSA: special focus on Italian species and overall review of all the available literature
- University of Granada: focus on the Iberian peninsula area
- SLU: focus on Scandinavian mayfly species
- University of Essen and partners: focus on German Ephemeroptera species
- CEH: focus on Great Britain species

Further activities to better cover the east European area are expected, which will directly involve the Masaryk University and partners, especially Prof. Soldan from the Entomological Institute, Academy of Science of the Czech Republic. Also, integrations from BOKU and Dr. Ernst Bauernfeind (Vienna Natural History Museum) are assumed to occur.

3.1.2 Expert comment

Once results from the literature review will be ultimate, including regional contributions, the autoecological matrix will be presented to European Ephemeroptera experts in order to obtain comments and further information on species autecology. This means that different European experts will be contacted and for each discussed species a row will be added in the database containing the information communicated by the expert.

From the Euro-limpacs consortium and associated partners some experts will be possibly involved:

- Alba-Tercedor J. (University of Granada, Spain);
- Bauernfeind E. (Natural History Museum, Wien, Austria);
- Belfiore C. (Tuscia University and CNR-IRSA, Italy);
- Buffagni A. (CNR-IRSA, Italy);
- Soldan T. (Entomological Institute, Academy of Science of the Czech Republic, Czech Republic);
- Thomas A. (University Paul Sabatier, France);

The availability to collaborate to this task, even if only partially e.g. one single family, will also be asked to other European experts not directly involved in the projects such as, between others:

- Gaino E. (University of Perugia, Italy)
- Haybach A. (Landesumweltamt NRW, Germany)
- Kluge N. (St. Petersburg State University, Russia)
- Sartori M. (Museum of Zoology, Lausanne, Switzerland)

3.1.3 Final summary

Once all information from the literature and the experts' comment will be available, a summary of all the entries on the definitive taxon row will be performed. While summarizing the information, some cases of conflicting information might be experienced. A possible approach to solve potential disagreements is the development of simple bibliographic relevance indices in order to rank the paper information. These indices might be developed concerning separately the endemic,

endangered and widely distributed species. Some general criteria that could be considered are type of publication (e.g. research or review paper, specific or general paper), first author relevancy in terms of number of publication on ecology/taxonomy of Ephemeroptera, expert comments. This approach should be preferred to the one simply based on expert opinion. In any case, the availability of separated entries for each species should simplify this task.

3.2 Ephemeroptera autoecological matrix: examples

Some examples of the review process of selected Ephemeroptera families performed by CNR-IRSA will be briefly presented. The literature about three mayfly families has been reviewed up to now at CNR-IRSA, focusing on Italian literature and overall bibliographic information: Baetidae, Caenidae and Ephemeridae.

3.1.4 Baetidae

The Baetidae family is present in Europe with 7 genera and 82 species. In Table 4 the number of papers that contain autoecological information about the considered species is shown. Up to now, 151 reviewed papers contain relevant information on Baetidae autoecology. Some genera present important lacks of information, e.g. *Acentrella* and *Pseudocentropiloides*, but consistent improvements are expected when all regional reviews will be available. As expected, large amount of data is available for widespread species e.g. *Baetis rhodani*, while for endemic or rare species less information is available, e.g. *Baetis cyrneus*.

Table 4. The Baetidae family taxalist and the number of paper reviewed up to now for each species are presented. (continues)

Family	Genus	Species	Author	Paper reviewed
		<i>almohades</i>	Alba-Tercedor & El Alami, 1999	1
		<i>hyaloptera</i>	(Bogoescu, 1951)	0
Baetidae	<i>Acentrella</i>	<i>inexpectata</i>	(Tshernova, 1928)	0
		<i>lapponica</i>	Bengtsson, 1912	0
		<i>sinaica</i>	Bogoescu, 1931	13

continued

Family	Genus	Species	Author	Paper reviewed
		<i>albinatii</i>	Sartori & Thomas, 1989	2
		<i>alpinus</i>	(Pictet, 1843)	47
		<i>atrebatinus</i>	Eaton, 1870	4
		<i>balcanicus</i>	Müller-Liebenau & Soldán, 1981	0
		<i>beskidensis</i>	Sowa, 1972	1
		<i>bicaudatus</i>	Dodds, 1923	2
		<i>braaschi</i>	Zimmermann, 1980	0
		<i>buceratus</i>	Eaton, 1870	24
		<i>bundyae</i>	Lehmkhul, 1973	2
		<i>calcaratus</i>	Keffermüller, 1972	3
		<i>canariensis</i>	Müller-Liebenau, 1971	1
		<i>catharus</i>	Thomas, 1986	4
		<i>cyrneus</i>	Thomas & Gazagnes, 1984	3
		<i>digitatus</i>	Bengtsson, 1912	15
		<i>estrelensis</i>	Müller-Liebenau, 1974	0
		<i>feles</i>	Kluge, 1980	0
		<i>fuscatus</i>	(Linnaeus, 1761)	41
		<i>gadeai</i>	Thomas, 1999	4
		<i>gracilis</i>	Bogoescu & Tabacaru, 1957	2
		<i>ingridae</i>	Thomas & Soldán, 1987	1
		<i>kozufensis</i>	Ikonomov, 1962	0
		<i>liebenauae</i>	Keffermüller, 1974	22
		<i>longinervis</i>	Navás, 1917	0
Baetidae	<i>Baetis</i>	<i>lutheri</i>	Müller-Liebenau, 1967	20
		<i>macani</i>	Kimmins, 1957	4
		<i>maurus</i>	Kimmins, 1938	2
		<i>melanonyx</i>	(Pictet, 1843)	29
		<i>meridionalis</i>	Ikonomov, 1954	1
		<i>muticus</i>	(Linnaeus, 1758)	46
		<i>navasi</i>	Müller-Liebenau, 1974	1
		<i>neglectus</i>	Navás, 1913	0
		<i>nexus</i>	Navás, 1918	6
		<i>nicolae</i>	Thomas, 1983	1
		<i>niger</i>	(Linnaeus, 1761)	24
		<i>nigrescens</i>	Navás, 1932	0
		<i>nubecularis</i>	Eaton, 1898	1
		<i>pasquetorum</i>	Righetti & Thomas, 2002	1
		<i>pavidus</i>	Grandi, 1949	9
		<i>pseudorhodani</i>	Müller-Liebenau, 1971	0
		<i>punicus</i>	Thomas, Boumaiza & Soldán, 1983	1
		<i>rhodani</i>	(Pictet, 1843)	68
		<i>scambus</i>	Eaton, 1870	25
		<i>strugensis</i>	(Ikonomov, 1962)	0
		<i>subalpinus</i>	Bengtsson, 1917	3
		<i>tracheatus</i>	Keffermüller & Machel, 1967	3
		<i>tricolor</i>	Tshernova, 1928	5
		<i>vardarensis</i>	Ikonomov, 1962	14
		<i>vernus</i>	Curtis, 1834	40

continued

Family	Genus	Species	Author	Paper reviewed
Baetidae	<i>Baetopus</i>	<i>tenellus</i>	(Albarda, 1878)	2
		<i>wartensis</i>	Keffermüller, 1960	0
	<i>Centroptilum</i>	<i>litura</i>	(Pictet, 1843)	0
		<i>luteolum</i>	(Müller, 1776)	30
		<i>obtusum</i>	Navás, 1915	0
		<i>pirinense</i>	Ikonomov, 1962	0
	<i>Cloeon</i>	<i>cognatum</i>	Stephens, 1836	0
		<i>degrangei</i>	Sowa, 1980	0
		<i>dipterum</i>	(Linnaeus, 1761)	24
		<i>inscriptum</i>	Bengtsson, 1914	0
		<i>languidum</i>	Grandi, 1959	1
		<i>petropolitanum</i>	Kluge & Novikova, 1992	0
		<i>praetextum</i>	Bengtsson, 1914	4
		<i>schoenemundi</i>	Bengtsson, 1936	0
		<i>simile</i>	Eaton, 1870	15
		<i>Procloeon</i>	<i>bifidum</i>	(Bengtsson, 1912)
	<i>calabrum</i>		(Belfiore & D'Antonio, 1990)	0
	<i>concinnum</i>		(Eaton, 1985)	1
	<i>fascicaudale</i>		(Sowa, 1985)	0
	<i>lacustre</i>		(Eaton, 1885)	0
	<i>macronyx</i>		(Kluge & Novikova, 1992)	0
	<i>nemorale</i>		(Eaton, 1885)	0
	<i>parapulchrum</i>		(Keffermüller & Sowa, 1975)	0
	<i>pennulatum</i>		(Eaton, 1870)	18
	<i>pulchrum</i>		(Eaton, 1885)	11
	<i>stenopteryx</i>		(Eaton, 1871)	0
	<i>unguiculatum</i>		(Tshernova, 1941)	0
<i>Pseudocentroptiloides</i>	<i>nana</i>		(Bogoescu, 1951)	0
	<i>romanica</i>		(Bogoescu, 1949)	0

continued

3.1.5 Caenidae

The Caenidae family is present in Europe with 3 genera and 18 species. In Table 5 the number of papers that contain autoecological information about the considered species is shown. Up to now 95 papers contain relevant information on Caenidae autecology. The genus with more species is *Caenis* with 14 species, while the genus *Cercobrachys* is present with a unique species, *Cercobrachys minutus* (Tshernova, 1952).

Table 5. The Caenidae family taxalist and the number of paper reviewed for each species are presented.

Family	Genus	Species	Author	Paper reviewed
Caenidae	<i>Brachycercus</i>	<i>europaeus</i>	Kluge, 1991	3
		<i>harrisella</i>	Curtis, 1834	26
		<i>kabyliensis</i>	Soldán, 1986	1
	<i>Caenis</i>	<i>belfiorei</i>	Malzacher, 1986	3
		<i>beskidensis</i>	Sowa, 1973	12
		<i>horaria</i>	(Linnaeus, 1758)	30
		<i>lactea</i>	(Burmeister, 1839)	7
		<i>luctuosa</i>	(Burmeister, 1839)	44
		<i>macrura</i>	Stephens, 1835	24
		<i>martae</i>	Belfiore, 1984	4
		<i>nachoi</i>	Alba-Tercedor & Zamora Muñoz, 1993	2
		<i>pseudorivulorum</i>	Keffermüller, 1960	22
		<i>pusilla</i>	Navás, 1913	12
		<i>rivulorum</i>	Eaton, 1884	23
		<i>robusta</i>	Eaton, 1884	17
		<i>strugaensis</i>	Ikonomov, 1961	0
		<i>valentinae</i>	Grandi, 1951	1
<i>Cercobrachys</i>	<i>minutus</i>	(Tshernova, 1952)	3	

In general terms, some lack of autoecological information was observed at this step of the study, especially for species for which few papers only are available. These species are for instance *Brachycercus kabyliensis*, *Caenis nachoi*, *Caenis strugaensis*. This results can be improved once received the update from the different geographic areas, e.g. knowledge about *Caenis nachoi* might increase once received the contribution from the Iberian peninsula, because this species is endemic of that area.

3.1.6 Ephemeridae

The Ephemeridae family is present in Europe with a single genus and 7 species. In Table 6 the number of papers that contain autoecological information about the considered species is shown. Up to now 93 papers contain relevant information on Ephemeridae autoecology. The species that resulted less characterized, up to now, are *Ephemera ellenica* and *E. parnassiana*. Concerning *Ephemera danica*, a widely distributed species, a large amount of information was found with 67 papers which contain relevant information on its biology and ecology.

Table 6. The Ephemeroidea family taxalist and the number of paper reviewed for each species are presented.

Family	Genus	Species	Author	Paper Reviewed
		<i>danica</i>	Müller, 1764	67
		<i>glaucops</i>	Pictet, 1843	20
		<i>hellenica</i>	Demoulin, 1955	2
Ephemeroidea	<i>Ephemerella</i>	<i>lineata</i>	Eaton, 1870	20
		<i>parnassiana</i>	Demoulin, 1958	2
		<i>vulgata</i>	Linnaeus, 1758	28
		<i>zettana</i>	Kimmins, 1937	7

3.1.7 Preliminary remarks on literature review

The amount of information found for each autoecological category in the three Ephemeroidea families considered up to now by CNR-IRSA was summarized. This summary was performed in order to quantify the quantity of information gathered and to preliminarily identify important lacks of knowledge for some families or some parameters (Table 7).

A first reflection has to be addressed to those parameters that are general traits, common to a whole family or group (e.g. dispersal capacity, respiration, r-, K-strategy). For these traits no information is expected to be found in specific papers. The lack of information obtained will be covered by looking at general studies where this kind of information is expected to be present. A similar consideration can be done for rare or endangered species i.e. Red list species. A dedicated task will be to gather all the available red list about European mayfly directly from Member States in order to fulfil the autoecological matrix for these parameters.

As far as parameters like microhabitat and current preferences are concerned, it seems that in general terms knowledge is available in the literature, even if it has to be noted that the majority of data found in the literature are qualitative.

The analyses of autoecological data collected in the field, scheduled among the next WP7 activities, are expected to greatly contribute to obtain a quantitative understanding of species preferences for traits linked to habitat colonization. The literature data will be useful to interpret the field data analysis results and, in the future, to assess if changes in habitat preference are observed and may be linked to climate change.

As far as life cycles are concerned, in general terms a quite large amount of information was found, specifically for emergence period, larval development and duration of life. The life cycle is expected to be one of the biological traits most influenced by climate change because it is mainly influenced by the thermal regime (Elliott 1987, Briers et al., 2004). Thus, changes in thermal condition due to climate changes will have direct effects on e.g. egg hatching, larval development and flight emergence periods of mayflies. The knowledge of what mayfly life cycles have been in the past in the different European areas will support the assessment of direct effect of climate change at the European scale. The distribution of mayfly species in Europe is quite well known. Nevertheless, a lot of information was integrated to the that available from the AQEM/STAR project. The altitude and longitudinal distribution gradients are extremely relevant to study the effects of climate change and were characterized with a quite large amount of information. In the literature, it is recognized that the northern and southern limits of species will tend to move northward in the northern hemisphere (e.g. Woiwod, 1997) as a consequence of the foreseen climate changes. Thus, having a complete picture of the European mayfly species distribution at this moment will be a useful tool to evaluate if changes on biotic communities composition and distribution will be effectively due to climate change.

Table 7. Amount of information (number of papers revised that contained useful information and/or single information) found for each autoecological category in the three Ephemeroptera families considered and total number of useful paper reviewed for each family.

Autoecological matrix	Ephemeroptera families		
	Baetidae	Caenidae	Ephemeridae
stream zonation preference	102	10	14
preference for a certain microhabitat	133	71	46
habitat specialist	6	21	2
preference for a certain current situation	170	60	65
feeding types	25	11	9
locomotion type	9	9	8
temperature preference I (maximal morning temperature in summer/mean maximum in summer)	15	13	7
temperature preference II	2	5	0
reproductive cycles per year	143	79	34
life duration	41	73	17
aquatic stage	0	1	0
resistance/resilience to droughts	0	5	2
reproduction	2	0	0
dissemination strategy	0	2	0
resistance form	0	4	0
respiration	0	2	0
hydrologic preference	9	100	7
salinity	8	38	7
acid classification	30	12	7
ph preference	6	17	5
flight (emergence)-period I	147	48	11
flight (emergence)-period II	147	61	23
larval development cycle	111	56	8
distribution according to Illies	24	36	10
altitude	36	41	7
altitude WFD	142	81	46
rare species (ecoregion)	78	61	40
Red list species (national/regional)	11	13	9
FFH species	0	0	0
endemism	2	12	0
disjunct isolated populations	0	7	0
r-, K-strategy	0	1	0
sensitive species	5	1	2
invasive (alien) species	0	0	0
occurrence in large quantities	15	37	4
dispersal capacity	0	0	0
indicator species in terms of thermal and hydrological regime and drought resistance	66	19	10
Total paper reviewed	151	95	93

4 Methods for the autoecological field data analysis

The literature review process is a needed step in order to obtain a detailed information on actual knowledge of mayfly ecology. Such a knowledge, integrated with new analysis on field data, will be necessary to have strong bases for assessing the effects of climate changes on freshwater ecosystems and, especially, on biotic community. The analysis of field data (i.e. mainly coming from the AQEM and STAR projects) is needed because most of information existing on freshwater groups, even if seemingly complete and extremely interesting, is often based on expert opinion (e.g. Fauna Aquatica Austriaca, 1995).

Furthermore, in large areas of Southern Europe, knowledge on mayflies is insufficient as far as taxonomy, distribution and ecology are concerned (e.g., Buffagni and Belfiore, 1994; Buffagni et al., 2001). For instance, in Italy in recent years, new endemic species have been described (e.g., Belfiore, 1995; Belfiore et al., 1997) and a number of others have been reported for the first time (e.g., Belfiore and Buffagni, 1994; Belfiore and Desio, 1995; Buffagni, 1997; 1998; Buffagni and Desio, 1998). Thanks in great part to the co-funding of E.U. projects in Italy and Southern Europe, mayfly faunistic, taxonomic and ecological information is on the increase (Buffagni et al., 2003).

In Italy, a large amount of data was collected during the E.U. co-funded AQEM, STAR and Euro-limpacs project plus additional national projects by CNR-IRSA (for further detail see also Buffagni, 2004; Hering et al., 2004; Furse et al., 2006). That data, plus other from other Southern European countries e.g. Portugal, are suitable to perform autoecological studies in order to fill the gap of knowledge nowadays observed. Looking at the Italian CNR-IRSA dataset, a list of mayfly species for which a suitable amount of data is available was done (Table 8). About 40 species are available to deepen the knowledge on autecology both at site and microhabitat scale. Out of those 40, about ten species are rare, endemic or not enough known e.g. *Baetis cyrneus*, *Electrogena calabra* and *Habrophlebia consiglioi*. While considering data collected at the European scale during the AQEM and STAR (plus Euro-limpacs) projects, information about 150 mayfly species have been collected. The suitability of the resulting dataset to describe autoecological factors will be checked in order to e.g. evaluate if abundances high enough were observed for all species and if enough supporting environmental parameters are available.

Concerning the environmental data collected during the mentioned E.U. projects, this kind of analysis can be performed for different parameters at different scales, such as, for CNR-IRSA and (partly) AQEM/STAR datasets:

- microhabitat scale: e.g. flow turbulence, flow type, velocity, depth, mineral and organic substrate type;
- site scale: e.g. altitude, channel and valley form, environmental quality descriptors;

The task of studying the autoecological preferences of mayfly based on field data will be divided in four sub-tasks:

- Analysis of the available information, selection of which criteria and techniques should be used.
- Database setup and implementation.
- Autoecological analysis.
- Synthesis of results.

Many different methods are known in the literature to evaluate the autoecological preferences of freshwater invertebrates. Some of those methods will be tested and selected in order to find the most appropriate to undertake analyses on Ephemeroptera traits. Special attention will be given to methods proposed to execute the same task for Dipteran Chironomidae in the Euro-limpacs project (Brabec et al., 2006). The methods proposed for the Chironomidae group are:

- Random forests method (Breiman, 2001).

- Indicator Species Analysis (Dufrière & Legendre, 1997).
- Valence curves.
- Weighted averaging (Braak & Looman, 1986).

Other methods considered potentially suitable to perform the task that will be tested are:

- Derivation of e.g. median, minimum and maximum values (or other percentiles of abundance distribution) and box&whiskers graphs presentation.
- Gaussian utilization curves (e.g. Crosa & Buffagni, 2002).

Some examples of the possible application of the 'box&whiskers' graphical approach to flow types and substrate types are briefly presented in the following paragraphs for two mayfly species.

Table 8. List of Ephemeroptera species from Italy and Southern Europe for which CNR-IRSA datasets are being arranged for autoecological data analysis at the micro-habitat scale.

Family	Genus	Species	Author(s)
Baetidae	Acentrella	<i>sinaica</i>	Bogoescu, 1931
		<i>alpinus</i>	(Pictet, 1843)
		<i>buceratus</i>	Eaton, 1870
		<i>cyrneus</i>	Thomas & Gazagnes, 1984
		<i>fuscatus</i>	(Linnaeus, 1761)
	Baetis	<i>liebenauae</i>	Keffermüller, 1974
		<i>melanonyx</i>	(Pictet, 1843)
		<i>muticus</i>	(Linnaeus, 1758)
		<i>niger</i>	(Linnaeus, 1761)
	Centroptilum	<i>rhodani</i>	(Pictet, 1843)
		<i>luteolum</i>	(Müller, 1776)
	Cloeon	<i>dipterum</i>	(Linnaeus, 1761)
		<i>simile</i>	Eaton, 1870
Procloeon	<i>bifidum</i>	(Bengtsson, 1912)	
	<i>pennulatum</i>	(Eaton, 1870)	
	<i>pulchrum</i>	(Eaton, 1885)	
Caenidae	Caenis	<i>luctuosa</i> <i>macrura-martae</i>	(Burmeister, 1839)
Ephemerellidae	Serratella	<i>ignita</i>	(Poda, 1761)
	Torleya	<i>major</i>	(Klapálek, 1905)
Ephemeridae	Ephemera	<i>danica</i>	Müller, 1764
		<i>belfiorei</i>	Haybach & Thomas, 2001
Heptageniidae	Ecdyonurus	<i>helveticus</i>	Eaton, 1885
		<i>picteti</i>	(Meyer-Dur, 1864)
		<i>venosus</i>	(Fabricius, 1775)
	Electrogena	<i>zelleri</i>	(Eaton, 1885)
		<i>calabra</i>	Belfiore, 1995
		<i>lateralis</i>	(Curtis, 1834)
		<i>lunaris</i>	Belfiore & Scillitani, 1997
Epeorus	<i>sylvicola</i>	(Pictet, 1865)	
Rhithrogena	<i>semicolorata</i>	(Curtis, 1834)	
Leptophlebiidae	Habroleptoides	<i>confusa</i>	Sartori & Jacob, 1986
		<i>umbratilis</i>	(Eaton, 1884)
		<i>pauliana</i>	(Grandi, 1959)
	Habrophlebia	<i>eldae</i>	Jacob & Sartori, 1984
		<i>consiglioi</i>	Biancheri, 1959
Choroterpes	<i>picteti</i>	(Eaton, 1871)	
Oligoneuriidae	Oligoneuriella	<i>rhenana</i>	(Imhoff, 1852)

4.1 Micro-habitat scale preference for flow and substrate types for selected Ephemeroptera species: examples

During the AQEM-STAR projects data regarding flow types (Padmore, 1997; Raven et al., 1998) and substrate types (AQEM consortium, 2002) were collected using standard protocols (Hering et al., 2004; Furse et al., 2006), enhanced for the definition of micro-habitat preferences (Buffagni et al., 2001). The definition of these environmental parameters, as recorded with the AQEM sampling protocol, are presented in Tables 9 and 10.

Table 9. Flow types definitions and codes (modified from EA, 2003).

Flow type	Code	Definitions
Free fall	FF	Water falls vertically, clearly separated from the substrate at back or below. Generally associated with natural cascades.
Chute	CH	Low, curving flow with substantial water contact 'hugging' the substrate. Where multiple chutes occur over individual boulders or bedrock outcrops, a 'stepped' profile is created.
Broken standing waves	BW	Water appears to be trying to flow upstream, against the mainstream. A white water tumbling wave must be present for the wave to be described as broken. Mostly associated with rapids, but may occasionally occur within riffles.
Unbroken standing waves	UW	'Babbling' water with a disturbed 'dragon-back' surface. The crest faces upstream without breaking, but sometimes white water may occur as crest. Mostly associated with riffles, but may also occur within a rapid.
Chaotic flow	CF	A chaotic mixture of three of faster flow types (e.g. FF, CH, BW e UW), and where no one of them is clearly predominant.
Rippled	RP	Water surface with distinct, symmetrical, small ripples that are generally only a centimetre or so high and moving downstream. Beware: in windy conditions "smooth" flow type (see next for definition) can appears, superficially analyzing, as "rippled".
Upwelling	UP	This flow type is marked by an appearance of bubbling or boiling water, coming in surface from deep portions of river. This appearance depends by strong upward flows movements disturbing surface. They are typically found on the outside of tight meander bends, behind in-channel structures (e.g. bridge abutments) or below waterfalls, cascade weirs and sluices. This flow types is often combined with rivers pools; sometimes produces lateral bank erosion on meander bends.
Smooth	SM	Laminar flow where water movement does not produce a disturbed surface. If in doubt, put a ranging rod into the water and you will artificially produce disturbed surface movement either side of the rod. Mostly associated with glides.
No perceptible flow	NP	No water movement is observed. It's possible to observe in reaches with regulated flow (i.e. above dams) or associated with natural structure preset in channel, as big block. In these cases the risk is to confound this flow type with the flow type "smooth". If in doubt put a ranging rod into water and observe surface movement of water. If the flow type is "not perceptible", no movement is observed.
Dry flow	DR	When a channel is dry, either naturally or due to anthropic activities.

The species preferences for these environmental parameters are here summarized by means of box&whiskers graphs. The species abundances were considered as number of individual for squared meter. Two examples, for a wide distribution and for an endemic species, are respectively presented.

Table 10. Substrate types definitions and codes (from AQEM Consortium, 2002)

Microhabitat	Code	Size	Size and descriptions
Mineral			
Artificial	Ar	-	Non natural constructions.
Hygropetric	Hy	-	Water film or thin layer covering solid substrates
Megalithal	MgL	> 40cm	Large cobbles, boulders and blocks, bedrock
Macrolithal	MaL	> 20cm – 40cm	Coarse blocks, head-sized cobbles, with a variable percentages of cobble, gravel and sand
Mesolithal (MeL)	MeL	> 6cm - 20cm	Fist to hand-sized cobbles with a variable percentage of gravel and sand
Microlithal	MiL	> 2cm - 6 cm	Coarse gravel (size of a pigeon egg to child's fist), with variable percentages of medium to fine gravel
Akal	Ak	> 2mm – 2cm	Fine to medium-sized gravel
Psammal/Psammopelal	Ps	> 6µm – 2mm	Sand and mud
Argyllal	Si	< 6µm	Silt, loam, clay (inorganic); a solid structure composed of very fine adhesive grains forming a solid surface
Biotic			
Phytal	Ph	-	Floating stands or mats of macrophytes, lawns of bacteria or fungi, and tufts, often with aggregations of detritus, moss or algal mats (interphytal: habitat within a vegetation stand, plant mats or clumps)
Algae	Al	-	Filamentous algae, algal tufts, diatoms
Submerged macrophytes	SM	-	Macrophytes, including moss and Characeae
Emergent macrophytes	EM	-	E.g. <i>Typha</i> , <i>Carex</i> , <i>Phragmites</i>
Living parts of terrestrial plants	TP	-	Fine roots, floating riparian vegetation
Xylal (wood)	Xy	-	Tree trunks, dead wood, branches, roots
Coarse particulate organic matter	CPOM	-	Deposits of coarse particulate organic matter, e.g. fallen leaves
Fine particulate organic matter	FPOM	-	Deposits of fine particulate organic matter
Sewage bacteria and fungi and saprobel	Ba	-	Sewage bacteria and –fungi (<i>Sphaerotilus</i> , <i>Leptomitus</i>), sulphur bacteria (e.g. <i>Beggiatoa</i> , <i>Thiothrix</i>), sludge
Organic mud	OM	-	Mud and sludge (organic) = pelal; predominantly occurring in lowland streams and stagnant zones. To be considered as “organic mud” the organic fraction is apparently larger than the mineral fraction. Otherwise, the site should be considered as “psammopelal”
Debris	De	-	Mainly inorganic and partly organic matter deposited within the splash zone area affected by wave motion and changing water levels, e.g. mussel and snail shells

***Baetis cyrneus* Thomas & Gazagnes, 1984**

Baetis cyrneus is an endemic Sardinian-Corsican species. The preference for flow and substrate types was derived from a high/good quality status sample dataset from Sardinia (Buffagni, 2004). For these environmental variables, no information is available in the literature. Newly analyzed data thus result extremely relevant. The data analysis shows for this species a general preference for fast and turbulent flows. In fact, high median values i.e. indicators for optimal conditions, were observed for Unbroken/Broken standing waves (UW and BW) and Chute flow (CH) (Figure 6).

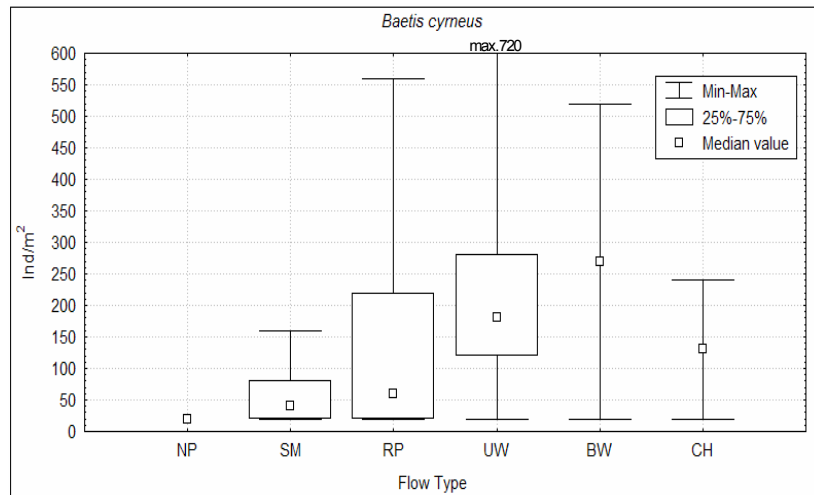


Figure 6. Distribution of *Baetis cyrneus* in riverine habitats with different flow types in High/Good quality sites in Sardinia.

As far as substrate habitat (i.e. mineral and organic substrate) is concerned, this species shows a clear preference for mineral substrates and especially for those characterized by large granulometry. Highest median values were observed for two mineral substrates: MacroLithal (MaL) and MegaLithal (MgL; Figure 7). Concerning organic micro-habitats, this species seems to occasionally inhabit, even if lower abundances were recorded, areas occupied by submerged and emerging macrophytes (SM, EM).

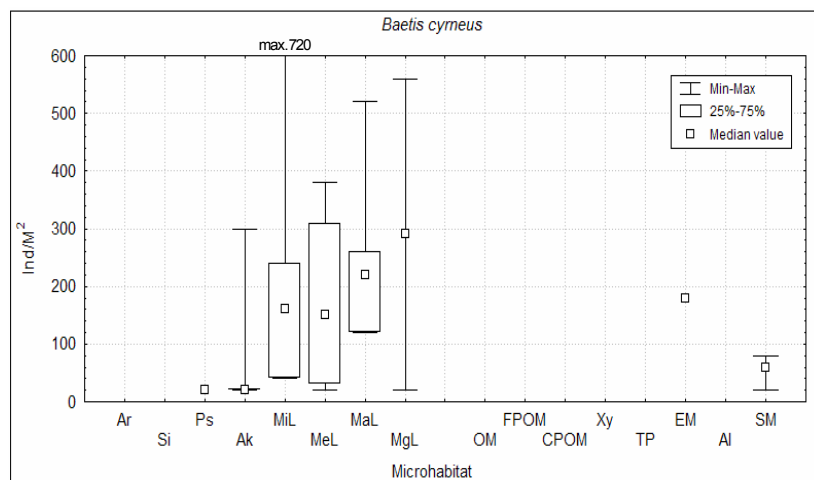


Figure 7. Distribution of *Baetis cyrneus* in the different substrate micro-habitats for High/Good quality status sites in Sardinia.

***Baetis rhodani* (Pictet, 1843)**

Baetis rhodani is a species widespread distributed in Europe. The preference for flow and substrate types was defined based on a datasets build up from Northern and Southern Apennines and from lowland streams in the Po valley, which only include high/good quality status sites (Buffagni et al., 2002).

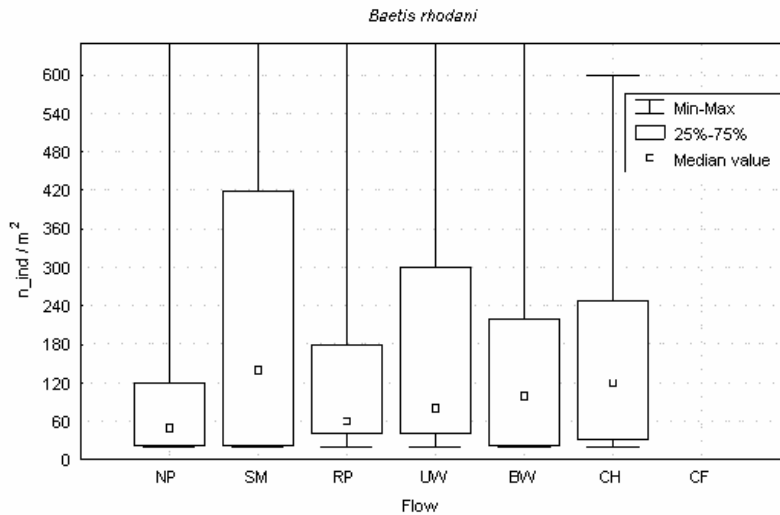


Figure 8. Distribution of *Baetis rhodani* in riverine habitats with different flow types in High/Good quality sites in Italian rivers.

Different studies are present in the literature concerning habitat preference for this species (e.g. Jenkins et al., 1984; Zamora-Muñoz et al., 1993; Bauernfeind & Humpesch, 2001; Buffagni & Erba, 2002) mostly indicating that the species is ubiquitous in terms of both current velocity and substrate type. Figure 8, which is based on newly processed field data, shows in the form of a box&whiskers graph the obtained preferences for flow types. *B. rhodani* can be confirmed as an ubiquitous species, being present in all the considered flow types except the chaotic flow. Highest median values were observed for the smooth flow.

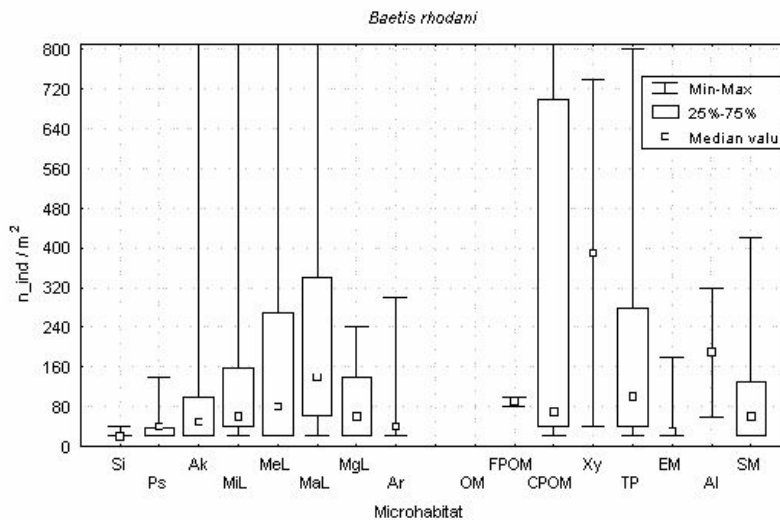


Figure 9. Distribution of *Baetis rhodani* in the different substrate micro-habitats in High/Good quality sites in Italian rivers.

As far as the substrate micro-habitat preference is concerned (Figure 9), this species resulted again ubiquitous, being present in all mineral and organic substrate types. With the exception of a few samples in the Xylal habitat, the highest median value was observed in the Macro-Lithal habitat, corresponding to 20 to 40 cm sized stones.

5 Timetable

An update of the timetable to conclude the task of creating a bibliographic database for Ephemeroptera species and to compile the autoecological matrix is presented in Table 11.

Table 11. Overall Ephemeroptera Bibliographic database deadlines.

Partner	notes & area	Ephemeroptera families		
		Baetidae	other families (non- Heptageniidae)	Heptageniidae all families
CNR-IRSA	Italy	done	15/03/2007 (Ephemeridae, Caenidae: done)	15/04/2007
	Overall	15/02/2007	15/03/2007 (Ephemeridae, Caenidae: done)	15/04/2007
SLU	Scandinavia	done	done	done
CEH	England	15/03/2007	15/03/2007	15/04/2007
UGR	Iberian Peninsula	15/03/2007	15/03/2007	15/04/2007
UniEssen	Germany	15/03/2007	15/03/2007	15/04/2007
Expert comment	data to be sent	30/03/2007	30/03/2007	30/04/2007
	comments received	15/05/2007	30/05/2007	15/06/2007
CNR-IRSA	Final summary			31/07/2007

6 Conclusions

The procedure adopted to create the bibliographic reference list for Ephemeroptera was illustrated and a brief description of the database, including some general remarks, was provided. Further refinements of the database are expected while concluding the reviewing of the literature. A definitive version of the database will be thus produced according to the timetable shown above. Moreover, examples of the results obtained up to now from the literature review by the CNR-IRSA were briefly described. More wide-ranging and conclusive considerations will be derived when the contributions from all partners will be available and the final summary for each species will be compiled. A presentation of some aspects of the step following the bibliographic review completion i.e. the autoecological field data analysis, was given, providing a few preliminary details on the planning of the task, with short examples.

The bibliographic review will produce a comprehensive and contemporary picture of the actual ecological knowledge concerning most of the European mayfly species. The partial lack of knowledge that is expected from the literature will be possibly filled up, at least partially, with new analysis of datasets provided by various European projects consortia and Institutions. The data

analysis being performed seems a unique opportunity to cover many gaps, especially for areas – like Southern Europe - where major lacks of knowledge are present and climate change effects are expected to come into view strongly. In conclusion, the combined tasks of reviewing literature and analyzing new data will provide new, invaluable tools to improve the understanding and management of freshwater ecosystems.

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Annex 1

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