

Working out a list of the Trichoptera threatened in the E.E.C. : a call for information

In order to gather a basic information to define the environments and regions to priority protect in the European Economic Community (E.E.C.), I was recently asked by a working group based at the Royal Institute of Natural Sciences in Brussels to provide a list of the most threatened Trichoptera of the area. That list ought to be conjointly used with other lists of selected vegetal and animal taxa, among which the Odonata appear as the only other aquatic group of Invertebrates. If it is quite satisfactory to consider that caddis flies are recognized by conservationists as potentially good ecological indicators, which is somehow the result of each one's work, we should also have at heart to attempt to provide the most reliable and defensible list.

Unfortunately enough, I had to give a very quick answer and to furnish a first draft list within a few days, which prevented me from contacting any specialist in his own country. On the other hand, not giving at least a provisional list would have imperilled the use of Trichoptera in the evaluation of the European environments by the concerned working group. I thus elaborated a first provisional list, joined hereafter, on the basis of the literature I had at hand (see main references underneath).

The produced list is of course much incomplete and certainly open to criticism. This is even the main reason why I subject it to your attention. Could you please check its accuracy at the light of your own experience and help me to progressively complete and improve it with the data you could gather in your region of investigation ?

Practically, this could be done different ways :

1. shortly, by commenting on the list and bringing more local data on the species it comprises ; I am particularly interested in news from the mediterranean countries;
2. by letting me know the species that should also be included, and giving me the references and if possible sending me papers I ignored in my fast revision;
3. by publishing larger amounts of information ready to be displayed, as emphasized by Malicky in a previous "Trichoptera Newsletter" (nr 8, February 1981).

All further use of communicated original data will of course mention their origin.

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P.S. : To help you to discern the consistency of the provisional list proposed here, I am giving below the procedure I used to work it out. As required, the species the list mentions should be threatened on the whole part of the E.E.C. territory it still occupies.

Procedure :

1. Use of published red lists (Wiberg-Larsen, 1980 ?; Tobias & Tobias, 1984; Wichard, 1986; Wallace in Shirt, 1986; Stroot, 1987).

1.1. Cross-check of the lists : separation of the species into two groups : (A) species appearing in most lists; (B) species only found in one or two lists.

1.2. Treatment of (A) species :

1.2.1. Collation with their known distribution area (Botosaneanu & Malicky, 1978), with the published national check-lists (Moretti & Cianficconi, 1981; Terra, 1981; Barnard, 1985; Stroot, 1985; O'Connor, 1987; Gonzalez *et al.*, 1987; Andersen & Wiberg-Larsen, 1987) and other large revisions or studies (such as Décamps, 1968; Verneaux, 1973) : all the species appearing

threatened in some red lists but still flourishing or quite commonly found in other areas were withdrawn (an example of this would be *Hydropsyche bulgaromanorum* Malicky, seemingly extinct in England (Wallace in Shirt, 1986) and Belgium but still well represented in the Loire River (France) (Lécureuil *et al.*, 1983).

1.2.2. Security screening : species submitted to particular taxonomic problems or especially hard to catch (as the Hydroptilids) were also withdrawn; this was necessary to ensure a sufficiently defensible list.

1.3. Treatment of (B) species : collation with their known distribution area : were only kept the species appearing at the limit of their areal in the concerned region of the E.E.C., only if they seemed sufficiently endangered (or even locally extinct) and if they are rather spectacular species (e.g. *Agrypnia crassicornis* (McLachlan) or *Limnephilus externus* (Hagen)); no endemic species was found here, mainly because the red lists published until now concern regions with no or few endemics.

2. Use of other information, i.e. various published papers : a few endemic or other species for which the author of the article stresses a particular threaten, as for *Drusus improvisus* McLachlan (Moretti & Cianficconi, 1975) or *Adicella dionisos* Malicky (Comm. pers. Malicky in Botosaneanu, 1981), were added to the list.

Provisional List of the Trichoptera Threatened in the E.E.C.

Extinct*

Hydropsyche tobiassi Malicky, 1977

Ceraclea ramburi Morse, 1975

Apatania muliebris McLachlan, 1866 s.l., div. sspp.

Endangered*

Rhyacophila polonica McLachlan, 1879

Limnephilus externus (Hagen, 1861)

Wormaldia subnigra McLachlan 1865

Platyphylax frauenfeldi (Brauer, 1857)

Agrypnia crassicornis (McLachlan, 1876)

Athripsodes leucophaeus (Rambur, 1842)

Agrypnia picta (Kolenati, 1848)

Ceraclea riparia (Albarda, 1874)

Hagenella clathrata (Kolenati, 1848)

Vulnerable*

Glossosoma intermedium (Klapalek, 1892)

Limnephilus pati O'Connor, 1980

Cyrnus insolutus McLachlan, 1878

Limnephilus tauricus Schmid, 1964

Tinodes megalopompos Malicky, 1977

Colpotauius incisus (Curtis, 1834)

Tinodes pallidulus McLachlan, 1878

Grammotaulius nitidus (Müller, 1764)

Tinodes peterressli Malicky, 1975

Nemotaulius punctatolineatus (Retzius, 1783)

Agrypnia obsolota (Hagen, 1864)

Allogamus mortoni (Navas, 1907)

Oligostomis reticulata (L., 1761)

Triaenodes conspersus Rambur, 1842

Drusus improvisus McLachlan, 1884

Leptocerus lusitanicus (McLachlan, 1884)

Limnephilus coenosus Curtis, 1834

Adicella dionisos Malicky, 1977

Limnephilus elegans Curtis, 1834

Adicella melanella (McLachlan, 1884)

Limnephilus nigriceps (Zetterstedt, 1840)

Ernodes articularis (Pictet, 1834)

* I.U.C.N. Status categories

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Note for readers who are not familiar with the situation. The contribution by Ph. Stroot concerns the European Community only which is a political association of one third of the European states and which form an irregular pattern on the map. Some of the listed species may be abundant in countries which are not members of the E.C.

Malicky

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

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