

## Additions and corrections to my „Atlas of European Trichoptera“

Hans MALICKY

### Introduction

Any work destined for the identification of animals or plants becomes antiquated with the progress of our knowledge and should be updated every twenty years or so. The second edition of my European Atlas (hereforth called „Atlas“) was published in 2004 and approaches gradually this point. We had expected an increase of several hundred newly described species, but among them were also a few spectacular discoveries such as the brachypterous *Rhyacophila ferox* in the Austrian mountains, the Tertiary relict *Nyctiophylax gaditana* in southern Spain whose congeners were known from Europe only in the Baltic Amber, or *Larcasia ligurica*, which must also be considered a Tertiary relict and which is on the wing in the unusual winter period, a phenology which was until now known only in the Nordic *Chilostigma sieboldi*.

At this occasion I want to point out the recently published Distribution Atlas of European Trichoptera (NEU & al. 2018) which includes the areas of all known species. It may be useful for the identification of some species because the few distribution references in my Atlas can only give vague information.

I should produce a third edition of the Atlas but am impeded by my age. The present paper may help the users of my Atlas to bring their copy up to date, but also help potential fellow workers to continue the editions of the book. It is not only about the collection and the presentation of drawings but also the collection of permissions to reproduce. The author of a book of this kind must himself know enough the presented species, and how to identify them in practice; and to judge whether the newly described species might be distinguished at all from the known ones. If not so, he must indicate the gaps in his knowledge.

In earlier times, a scientist made a publication when he or she had discovered something new to inform fellow workers. In recent times however, a publication means a document for a scientific activity which was required for the professional career, but the content is less important than the journal in which it was published. We can now observe a wild growth of „journals“ in the digital Nirvana which are waiting for their next Carrington Event (if you don't know what this is, look up Wikipedia).

It is observed in an increasing manner that authors cite other publications in their reference list, but had obviously not read these publications. One of the reasons may be that reading of papers in certain journals must be paid with an unreasonable amount of money. Journals which belong to profit-oriented companies. I cannot imagine how serious scientific work will be possible in future under such conditions. It is in the hand of scientists to stop this practice by refuse to publish in this kind of journal.

Another important problem is our increasing knowledge of genetics. In many cases the similarities of species, detected by DNA analysis, do not correspond with the eidonomical findings. This means that we know more and more cryptic species which cannot or only with difficulty be identified with traditional characters. What is one to do with an identification book in this situation? Also, one must not forget that DNA sequences give valuable information for taxonomy, but do not present the absolute truth. In some taxonomic groups we find a high genetical diversity, but in

other groups it does not work at all, as we know in several instances. It is also possible that DNA results are not confirmed by the results of crossbreeding (MALICKY & PAULS 2012).

Another problem for the production of a new edition of the Atlas is the fact that one author has described several hundred species during recent years, many of them being recognised immediately to be synonyms. In some cases I had already given my comments (MALICKY 2014a, 2018b, see also the comments in NEU & al. 2018). Some of these new species are included in the following list, but I have not considered the bulk of his descriptions of the last about ten years. I leave this to others who are willing to do this work. These relevant publications are listed below. Alone for the control of „*Allogamus alpensis*“ I had studied more than 4000 specimens from several museums, I had bred hundreds of larvae in captivity for months, and was driving by car several hundred kilometres (MALICKY 2016b). Now I am not willing to spend more time and work in this matter. The Code of Zoological Nomenclature gives the formal conditions for publication and priority, but does not say that everyone has to accept taxonomical acts which one holds to be wrong.

Finally I must point on another unexpected problem. In my Atlas, much information is given in the form of abbreviations, and the explanations are on a separate page, namely the inner side of the book's outer cover. This was intended to allow the users a quickly gain access to the information without spending a long time searching through the pages of the book. But what happened: the Publishers have first of all printed a small paper edition of the Atlas, and preserved the content in digital form, to be able to supply immediately more copies later. Unfortunately the printer has forgotten to include the two outer pages with the abbreviations, without my knowledge. Only when colleagues later wrote to me and complained about the lack of explanation of abbreviations, I became aware of this mistake. I have applied to the Publishers but don't know whether this error was meanwhile corrected. Therefore I give here on page 58 a copy of this lacking page.

After the publication of the second edition of the Atlas I have published several additions and corrections (MALICKY 2005, 2006, 2007, 2008). Not all of these are repeated here! When a species is included in the following list, it does not mean that its validity was controlled. This is not the purpose of a work destined to identify specimens, and the interpretation of the status of a species may often change.

**Abbreviations:** - „Atlas“ = Atlas of European Trichoptera, 2<sup>nd</sup> edition. - The names of the genera are here followed by the page number of the „Atlas“. - \* means a species new for the Atlas. - TR = Turkey.

### *Rhyacophilidae* p.6:

- \* *alaplica* SIPAHILER 2013:46, TR
- albardana* MCLACHLAN 1879: the specimens from the Appenine Peninsula (NEU & al. 2018:743) are possibly another species
- \* *cabrankensis* MALICKY, PREVIŠIĆ & KUČNIĆ 2007, Croatia
- \* *camiliensis* SIPAHILER 2013:48, TR
- \* *carpathica* BOTOSANEANU 1995 from Romania is a bona sp., separate from *aquitanica*: BÁLINT & al. 2009
- \* *fasciata ilgazica* SIPAHILER 2018b:15, TR
- fasciata mysica* female: SIPAHILER 2018b:16, TR
- fasciata* group: Revisions VALLADOLID & al. 2018, 2019, 2020, 2021
- \* *ferox* GRAF 2006:22, Austria
- \* *fonticola* GIUDICELLI & DAKKI 1984, female: VIEIRA & al. 2008:22
- \* *gireshunica* SIPAHILER 2020a:45, TR

*Rhyacophila*:

- \* *ivrizica* SIPAHLER 2006:20, TR
- \* *konradthaleri* MALICKY 2009:955, Austria
- \* *kumanskii turcica* SIPAHLER 2007:17, TR; with brachypterous females
- \* *masula* OLÁH 2010:87, Iran  
  *simulatrix vinconi* female: GRAF & al. 2005:156
- \* *tamderensis* SIPAHLER 2010b:62, TR
- \* *terrai* GONZÁLEZ & MARTÍNEZ 2010:163, Spain
- \* *torulensis* SIPAHLER 2013:51, TR
- \* *trabzonica* SIPAHLER 2020a:46, TR  
  *tristis* PICTET 1834 = *pseudotristis* KUMANSKI 1987  
  = *akutila* OLÁH 2010: **synonyms** (NEU & al. 2018:799)  
  *vallisclausae*: full winged specimens of this normally brachypterous species are in existence (COPPA & LE GUELLEC 2021)

*Glossosoma* p.33:

- \* *femminamorta* MALICKY 2010:43, Sicily

*Agapetus* p. 37:

- dolichopterus* GIUDICELLI & DAKKI:  
  brachypterous specimens are in existence
- \* *selgensis* SIPAHLER 2005:80, TR
- \* *sinopicus* SIPAHLER 2012:2, TR

*Synagapetus* p. 42:

- Survey of Iberian and Pyrenean species:  
  MARTÍNEZ, MARTÍN, GONZÁLEZ 2015  
  *iridipennis* McLACHLAN 1879 and *clio* MALICKY 1976: separating characters and distribution:  
    MALICKY 2017:27
- \* *laurisilvanicus* MARTÍN, GONZÁLEZ, MARTÍNEZ 2017:297, Madeira
- \* *liguricus* MALICKY 2011:23, Italy
- \* *vettonicus* MARTÍNEZ, MARTÍN, GONZÁLEZ 2015, Spain

*Agraylea multipunctata / cognatella*, p. 66: the status is still unclear, to be revised (see MALICKY 2005:546)

*Hydroptila* p.51

- acuta* & *cognata* females: COPPA & TACHET 2004  
*corsicana* MOSELY 1930 = *vectis* CURTIS 1834 are  
  **synonyms**: MALICKY 2016a:39
- erkakanae* SIPAHLER 1997: Atlas p.56: probably a damaged specimen: not clear to which species it belongs
- \* *hodkovaee* CHVOJKA 2006:246, Iran
- \* *malacitana* GONZÁLEZ & RUIZ 2013:397, Spain
- \* *mardinica* SIPAHLER 2010d:348, TR  
  *phaon* female: COPPA & TACHET 2005:125
- \* *saimbeyli* SIPAHLER 2018:38, TR
- \* *tacheti* COPPA & MALICKY 2005:19, Italy, France. See also  
    MALICKY 2016:22
- \* *tifica* SIPAHLER 2012a:1051, TR

*Oxyethira* p.70

- boreella* SVENSSON & TJEDER 1975 = *falcata* MORTON 1893: **synonyms**: MALICKY 2007  
*klingstedti* NYBOM 1983 & *tammerensis* MALICKY 1999 females: TOBIAS & al. 2009:25

*Stactobia* p. 74

- \* *alaplica* SIPAHLER 2012a:1052, TR
- \* *cianficconiae* LODOVICI & VALLE 2013:167, Sardinia
- \* *kiziroglui* SIPAHLER 2012a:1053 TR  
  *maculata* VAILLANT 1951 is **not** a synonym of *fuscicornis* SCHNEIDER 1845: LODOVICI & VALLE 2013:172
- \* *yenicensis* SIPAHLER 2012a:1054, TR

*Wormaldia* p.82

- \* *asmodel* MALICKY & GRAF 2015:31, Morocco  
  *balcanica* KUMANSKI 1979, p.83 = *busa* OLÁH 2014: **synonym** (NEU & al. 2018:617)  
  *bulgarica* NOVAK 1971, p. 83 = *daga* OLÁH 2014 =  
    *albanica* OLÁH 2010: **synonyms** (NEU & al. 2018:619)
- \* *catalzeytin* SIPAHLER 2020a:46, TR
- \* *cianficconiae* NEU 2017:114 Italy
- \* *ditta* SIPAHLER 2020a:47, TR
- \* *erzincanica* SIPAHLER 2012:3, TR
- \* *gattolliati* MALICKY & GRAF 2017:47, Italy
- \* *haldizan* SIPAHLER 2021:38, TR
- \* *karystia* MALICKY & KARAOUZAS 2016:17, Greece  
  *kimminsi* BOTOSANEANU 1960, p.83 = *graecka* OLÁH 2014: **synonym** (NEU & al. 2018:628)
- \* *mahiri* SIPAHLER 2012:2, TR, Georgia
- \* *malickyi* SIPAHLER 2010d:349, TR
- \* *niksar* SIPAHLER 2021:38, TR  
  *occipitalis* group, Revision: NEU 2015 including resurrection of species formerly considered synonyms (*juliani* KUMANSKI 1979, *hellenica* JACQUEMART 1962, *subterranea* RADOVANOVIC 1932, *bosniaca* BOTOSANEANU 1960, *morettii* VIGANÒ 1981, *meridionalis* VAILLANT 1974, *serratosioi* VAILLANT 1974)
- \* *ordu* SIPAHLER 2021:38, TR
- \* *sarda* GRAF & MALICKY in VITECEK & al. 2015:87, Sardinia
- \* *schmidi* MARTÍNEZ & GONZÁLEZ 2011:193, Spain, Portugal
- \* *sukranae* SIPAHLER 2007a:36, TR  
  *Wormaldia* **synonyms**: MALICKY 2018b:43

*Philopotamus* p.90

- \* *giresunicus* SIPAHLER 2010d:351, TR  
  Revision of the genus in Turkey, with description of several subspecies: SIPAHLER 2018a

*Pseudoneureclipsis* p.92

- \* *adiabenorum* OLÁH 2010:71, Iran (Zagros)
- \* *kelkitensis* SIPAHLER 2010a:949, TR
- \* *parthus* OLÁH 2010:72, Iran (Zagros)

*Nyctiophylax* p.93

- \* *gaditana* RUIZ & al. 2013:170, Spain

*Plectrocnemia* p. 100

- conspersa* CURTIS 1834 = *limosa* VAILLANT 1967: **synonym** (NEU & al. 2018:658)
- \* *cevennensis* COPPA 2011:2, France
- \* *diakosensis* MALICKY 2015:36, Greece  
  *geniculata*: distribution of subspecies: NEU & al. 2018:659
- \* *torosica* SIPAHLER 2006:20, TR

*Ecnomus* p. 104

- ferrantei* ULMER 1963:258 is possibly a synonym of *dispar* KIMMINS 1957:267 (a widespread African species): revision is suggested

*Psychomyia* p. 108

- \* *dadayensis* SIPAHLER 2006a:50, TR
- \* *mengensis* SIPAHLER 2006a:52, TR

*Tinodes* p. 109

- \* *akyarma* SIPAHLER 2016:62, TR
- \* *andrasi* OLÁH 2010:74, Croatia
- \* *ankrimensis* MEY 2018:191, Morocco
- \* *devrekensis* SIPAHLER 2014a:37, TR
- \* *felixi* MARTÍNEZ & GONZÁLEZ 2013:399, Spain

- \* *hajeki* CHVOJKA 2006:248, Iran  
 \* *igmir* NEU & MALICKY 2017:30, Morocco  
 \* *ihlaraensis* SIPAHLER 2014a:37, TR  
 \* *izginehirae* SIPAHLER 2014a:36, TR (Thrakia)  
 \* *mugael* MALICKY 2015:37, TR  
 \* *ofensis* SIPAHLER 2014a:37, TR  
*petaludes* MALICKY 1975 = *karpathos* OLÁH  
     2014:104, synonym (NEU & al. 725)  
*rostocki* variability: MALICKY 2018a:35  
 \* *urdhva* OLÁH 2010:77, Albania  
 \* *voriseki* CHVOJKA 2006:247, Iran
- Diplectrona* p. 130  
 All European and Mediterranean species of the genus should be revised  
 \* *arhavi* SIPAHLER 2019:15  
 \* *polovit* SIPAHLER 2019:15  
 \* *macahel* SIPAHLER 2019:16
- Hydropsyche* p. 134  
 The identification of species from Central and Northern Europe is reliable, with a possible uncertainty in some cases of *H. pellucidula* and *H. incognita*, but in mediterranean species, in particular from the eastern Mediterranean, are many open questions left, e.g. in the variability of *H. peristerica* BOTOSANEANU & MARINKOVIĆ 1971. Particular attention to the revisions by SIPAHLER (2004, 2010, 2016a) with \* 29 new species altogether, and the revision of Iberian species by ZAMORA & al. (2017).  
*dinarica* MARINKOVIĆ 1979, p. 144 = *sarnas* OLÁH  
     2014: synonym (NEU & al. 2018:190)  
*incognita* PITSCHE 1993: the localities in Asia Minor on p. 199 in NEU & al (2018) are to be deleted because they are based on wrong identification  
*masula* OLÁH & JOHANSON 2008: to be revised;  
     similar to *H. iokaste* MALICKY 1999  
 \* *lundaki* CHVOJKA 2006:251, Iran  
 \* *pandiel* MALICKY 2014:43, Morocco  
 \* *subalpina* BOTOSANEANU & GIUDICELLI 2004 from the Western Alps: in the copulatory structures is almost no difference to *H. acinoxas* MALICKY 1981, but *acinoxas* is very dark, and *subalpina* has yellow forewings.  
 \* *solerorum* ZAMORA-MUÑOZ & GONZÁLEZ in ZAMORA & al 2017:162, Spain  
 \* *sultanensis* SIPAHLER 2006:21  
 \* *taskalensis* SIPAHLER 2012:4
- Agrypnia* p. 153  
*principalis* MARTYNOV 1909 = synonym of  
*colorata* HAGEN 1873: WIGGINS 1998:79
- Holostomis* MANNERHEIM 1838 (Atlas p.154): synonym of *Sembli* FABRICIUS 1775: WIGGINS 1998:193
- Micrasema*, *Brachycentrus* p. 159, 160  
 females of *B. maculata*, *M. setiferum*, *M. minimum*: MALICKY 2018:23
- Micrasema* p. 160  
 Summary of *Micrasema* from the Iberian Peninsula:  
     BOTOSANEANU & GONZÁLEZ 2006  
 \* *dolcini* BOTOSANEANU & MORETTI 1986 (Italy) bona species: MALICKY 2006:43, CIANFICCONI & GONZÁLEZ 2009:133
- Thremma* p. 163  
 \* *Thremma artvinica* SIPAHLER 2020:41, TR
- Silo*, *Lithax* p. 165, 166  
 females of *Lithax* & *Silo*: MALICKY 2018:25  
*Silo mediterraneus* McLACHLAN 1884 and *S. rufescens* RAMBUR 1842 (Atlas p. 166): the specific difference is questionable; a revision is suggested
- Larcasia* p. 167  
 \* *ligurica* MALICKY 2014:43, Italy; *ligurica* male: MALICKY & DELMASTRO 2017:45
- Dinarthrum* p. 175  
*Lepidostoma hirtum* = *Ayabeopsyche nipponica* TSUDA (correction of the wrong name in MALICKY 2005:564)  
*Lepidostoma modestum* MARTYNOV 1928 = *L. martynovi* WEAVER 2002 (Homonym of *Lepidostoma modestum* BANKS 1905): WEAVER 2002:181  
 The genus *Dinarthrum* was synonymised by WEAVER 2002:173 with *Lepidostoma*, together with many other mostly unnecessary Asiatic genera. However, for the purpose of identification, *Dinarthrum* remains a useful group: the males have parameres, but in the other European *Lepidostoma* the parameres are reduced.
- Martynomyia* Atlas p.178: is the correct writing of the name
- Crunoecia* p. 179  
 females of *irrorata* and *kempnyi*: Malicky 2018:25
- Limnephilidae:** It is true that in Limnephilidae too many genera were proposed, much in contrast to other caddis families. Several authors have proposed to synonymize some of them. On the other hand, these generic names are well known for long, and their change would cause the total chaos, as we can see e.g. in the names of Lepidoptera. The names of zoological objects serve first of all for the orientation of the reader, even if their phylogenetic position does not completely satisfy.
- Apatania* p. 181  
 \* *baspinar* SIPAHLER 2017b:11, TR  
 \* *mercantoura* BOTOSANEANU & GIUDICELLI 2004:707. A member of the taxonomically difficult parthenogenetic *muliebris* group  
*schmidiana* IVANOV & GRIGORENKO 1991. It is not clear what this species might be, see BOTOSANEANU & GIUDICELLI 2004:711  
 \* *szczesnyorum* OLÁH 2006:11, Poland (Tatra)  
     Finnish species, DNA barcoding: SALOKANNEL & al. 2010
- Drusus* p. 195.  
*adustus* McLACHLAN 1867 (figure in the Atlas p. 195 under „*destitutus*“) is the correct name of the species from the Austrian Alps. It is not a synonym of *destitutus* as believed by many authors: MALICKY 2018b:43  
 \* *crenophylax* GRAF & VITECEK in VITECEK & al. 2015:88, Bosnia  
 \* *delmastroi* MALICKY 2020:38, Italy  
*destitutus* KOLENATI 1848 = *trifidus* McLACHLAN 1868  
**synonym:** MALICKY 2018b:43. - Comment: any one of the readers may apply to the International Commission of Zoological Nomenclature to preserve the better known name *trifidus*. With my own experience with this commission, I refuse to do this.  
*ingridae* female. SIPAHLER 2006:21
- Hadimina* p. 191 is the correct writing of the name

*Metanoea* p. 193

\* *flavipennis* and *rhaetica* females: MALICKY 2018:29

Except these few cases, I am not able to get a survey of the Drusinae as a whole from a number of (sometimes confusing) publications of the last few years, e.g. OLÁH & al. 2015, 2017, VITECEK 2015, VITECEK & al. 2015, 2015a, 2015b, 2015c, 2017, 2020. The reader may orientate himself or better, wait for an understandable summary. About 80 species described by OLÁH need confirmation (Vitecek, personal information). Presently I see no chance for a satisfying identification of Drusinae.

*Limnephilus* p. 221

\* *barbagaensis* MALICKY, SEKHI & LOUNACI, in SEKHI & al. 2019:13, Algeria

\* *maghrebensis* MEY & OLÁH 2019 in OLÁH & al. 2019:34, Tunisia: this species is already figured in the Atlas, p. 229 under „*alaicus*, VMG“

*sparsus* variability of female: MALICKY 2018a:41

*Rhadicoleptus ucenorum* MCLACHLAN 1876, p.219: belongs to genus *Alpopsyche* BOTOSANEANU & GIUDICELLI 2004 of Stenophylacini (WARINGER & al. 2011)

*Chaetopteryx* p. 240

\* *akgolensis* SIPAHLER 2010c:1, TR

\* *aproka* OLÁH 2011:9, Rumania (Carpathians: Maramuresch)

\* *bektasensis* SIPAHLER 2008:23; *bektasensis* female: SIPAHLER 2010c:4

\* *bucari* KUČINIĆ, SZIVÁK & DELIĆ 2013:11 Croatia

\* *morettii* LODOVICI & VALLE 2007:15, Italy (Veneto), see also MALICKY & PAULS 2012

\* *sinopica* SIPAHLER 2010c:3, TR

*Chaetopteryx* synonyms: MALICKY 2014a:51

*Badukiella prohibita* MEY & MÜLLER 1979, p. 247 = *subnigra* OLÁH 1985: synonym (NEU & al. 2018:480)

*Psilopteryx* p. 248

\* *ilgazensis* SIPAHLER 2017a:70

\* *yenicensis* SIPAHLER 2017a:71

*Annitella* p. 250

*afselbecki* female: VUČKOVIĆ & al. 2011

*Kelgena* p. 255

\* *camibogazi* SIPAHLER 2017:15, TR

\* *kavron* SIPAHLER 2017:18, TR

\* *limni* SIPAHLER 2017:17, TR

\* *nehirae* SIPAHLER 2009:315, TR

\* *sisensis* SIPAHLER 2009:318, TR

\* *zigana* SIPAHLER 2017:14, TR

*Micropterna* p. 257

\* *ilgazica* SIPAHLER 2015:9, TR: the female is very similar to *Chaetopterna satunini* MARTYNOV 1913 (see Atlas p.252), verification is suggested

\* *taskale* SIPAHLER 2015:10, TR

*Stenophylax* p. 261

*mucronatus* MCLACHLAN 1880 = *crossotus*

MCLACHLAN 1884 synonym: MALICKY 2014:44

*Potamophylax* p. 265

\* *asturicus* MARTÍNEZ, MARTÍN, GONZÁLEZ

2016:838, Spain

\* *coronavirus* IBRAHIMI & al. 2021:6, Kosovo

\* *qafshatamaensis* IBRAHIMI & BILALI 2021:86, Albania

\* *seprus* OLÁH & al. 2011:13, Albania

\* *hajlos* OLÁH 2012:98, *kesken* OLÁH 2012:100, *tagas* OLÁH 2012:101, *alsos* OLÁH 2014:117: the phylogenetic relations of these closely related and almost sympatric species are currently studied (Ibrahim, personal information).

*Consorophylax* p. 269, 270

\* *corvo* MALICKY 2008a:40, Italy (Piemonte)

\* *leponitorum* GRAF & VITECEK 2016:433, Italy (Novara)

\* *vinconi* GRAF & MALICKY in GRAF & al. 2015:382, Italy; *vinconi* female: GRAF & VITECEK 2016:432

*Allogamus* p. 271

*auricollis* PICTET 1834, *braueri* KOLENATI 1859:

bona subspecies: MALICKY 2016b:29

*auricollis* = *alpensis* OLÁH, LODOVICI & VALLE

2014: synonym: MALICKY 2016b:29

*mendax* MCLACHLAN 1876 = *pantinii* OLÁH & al.

2014: synonym (NEU & al. 2018:459)

*uncatus* synonyms: see MALICKY 2018b:45

*Melampophylax* p. 278 (see also page 57)

\* *altuspyrenaicus* BOTOSANEANU 1994:363;

female: COPPA 2017:5, Pyrenees

\* *cantalicus* BOTOSANEANU 1994:364, Massif Central

*melampus* p. 278, 279, correction of the size:

♂ 14-21mm, ♀ 12-18mm.

\* *orientalopyrenaeus* COPPA 2017:3, Pyrenees

\* *scalercioi* VALLE & LODOVICI 2018:167, Calabria

*Platyphylax* p. 280

\* *beshkovi* OLÁH 2019 in OLÁH & al. 2019:82, Albania

*Anisogamus* p. 280

\* *waringeri* GRAF & VITECEK in GRAF & al. 2015:384, Pyrenees

*Acrophylax* p. 282

\* *sowai* SZCZESNY 2007:132, Poland

*Agaphylax* new genus

\* *balcanicus* OLÁH & al. 2018:84, Macedonia

*Oecismus* p. 287

*monedula pinkeri* female: SIPAHLER 2007a:37

\* *turcicus* SIPAHLER 2010b:63, TR

*Schizopelex* p. 288

\* *boluensis* SIPAHLER 2012:186, TR

*furcifera* female: NEU 2017:50

\* *genalica* RUIZ & FERRERAS 2014:297, Spain

*rhamnes* female: SIPAHLER 2007a:37

\* *sinopica* SIPAHLER 2012:5, TR

\* *yenicensis* SIPAHLER & PAULS 2012:185, TR

*Sericostoma* p. 290

\* *sasbaddes* MALICKY 2010a:31, Sardinia

The complicated situation in *Sericostoma* (see MALICKY 2005:579 ff.) has not improved since. A revision is urgently needed.

*Notidobia* p. 292

\* *kumbetensis* SIPAHLER 2008:23, TR

*nogradorum* OLÁH 2010:114 = *bizensis* MALICKY

& SIPAHLER 1993: synonym Malicky 2018b:45

*Odontocerum* p. 295 new

*hellenicum* MALICKY 1975 = *turcum* SIPAHLER

2014:542: nov.syn.

*Molanna* p. 297

The wings of ♂ and ♀ on page 297 of the Atlas are erroneously confused

*Beraea* p. 300

- \* *algarvensis* MALICKY 2011:43, Portugal
- \* *alihosi* SIPAHILER 2008b:301, TR
- \* *gurba* OLÁH 2014:127, Albania
- \* *yucelaslani* SIPAHILER 2016:62, TR

*Ernodes* p. 304

- \* *gombe* SIPAHILER 2021:38, TR
- \* *orduensis* SIPAHILER 2008b:304, TR
- \* *yavuzkemal* SIPAHILER & CHVOJKA 2022:28

*Beraeamyia* p. 306

- \* *devrekensis* SIPAHILER 2005:82, TR

*Adicella* p. 312

- \* *hadimensis* SIPAHILER 2014:544
- \* *kayserica* SIPAHILER 2014:544
- \* *turcica* SIPAHILER 2018:39: the difference to *A.hypseloknossiois* is not clear
- \* *yalvac* SIPAHILER 2018:39

*Ylodes* p. 316

*reuteri*, *zarudnyi*, separating characters: MALICKY 2006:44

*Triaenodes* p. 317

- \* *lagunovi* SALOKANNEL & IVANOV 2020:1020 Ural
- unanimis* female: MALICKY 2006:44

*Athripsodes* p. 319

- \* *alentexanus* MARTÍN, GONZÁLEZ, MARTÍNEZ 2016:199, Portugal, Spain
- \* *caglari* SIPAHILER 2008a:4, TR
- \* *ozerenae* SIPAHILER 2008a:2, TR
- turanicus* MARTYNOV 1928 = *Ceraclea fulva* RAMBUR 1842 are **synonyms** (MORSE 1975:28)

*Leptocerus* p.330

- aksu* SIPAHILER (Atlas p.330):  
the correct publication year is 2005
- savur* SIPAHILER (Atlas p. 330):  
the correct publication year is 2001

*Setodes* p. 336

*viridis* female, correction: MALICKY 2006:44. – The figure on p. 336 of the Atlas represents *S. bulgaricus*, but I see no real difference.

*Oecetis* p. 340

*intima* female: KUMANSKI 2007:92

*Parasetodes* p. 341

*respersella* RAMBUR 1842: It appears that the species is widespread in Asia and Africa, but there are some doubts whether it is really one single species. Several nominate species were described from Asia, but in an attempt to identify specimens, it was hard to decide which one it is, i.e. the separating characters are not clear. – See the forewing pattern on page 48.

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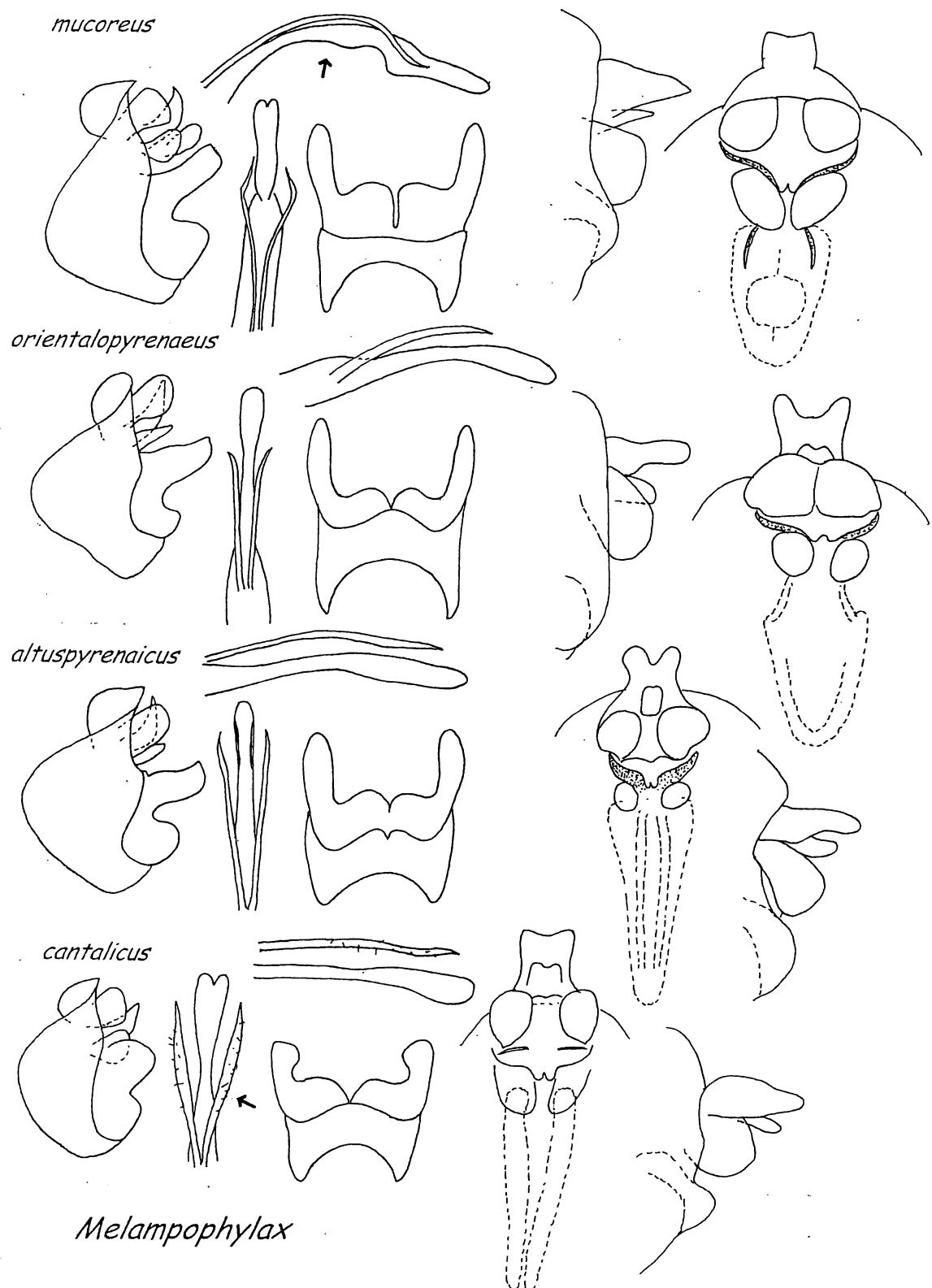
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N, n, S, s, E, e, W, w.... NORTH/NORD, SOUTH/SÜD/SUD, EAST/OST/EST, WEST/OUEST  
 C, c... CENTRAL

A... AUSTRIA / ÖSTERREICH / AUTRICHE

AC... AÇORES

AL... ALPS / ALPEN / ALPES

AM... ASIA MINOR / KLEINASIEN / ASIE MINEURE

AP... APPENNINE PENINSULA / APPENINHALBINSEL / PENINSULE APPENNINE

AR... ARABIAN PENINSULA / ARABISCHE HALBINSEL / PENINSULE ARABIQUE

BA... BALKAN PENINSULA / BALKÄNHALBINSEL / PENINSULE BALCANIQUE

CA... CANARY ISLANDS / KANAREN / ILES CANARIENNES

CH... SWITZERLAND / SCHWEIZ / SUISSE

CO... CORSICA / KORSIKA / CORSE

CY... CYPRUS / ZYPERN / CHYPRE

DK... DANMARK

EG... EGEAN REGION / ÄGÄISREGION / REGION EGEENNE

ET... EGYPT / ÄGYPTEN / EGYPTE

GB... BRITISH ISLES / BRITISCHE INSELN / ILES BRITANNIQUES

IB... IBERIAN PENINSULA / IBERISCHE HALBINSEL / PENINSULE IBERIQUE

IR... IRAN

KA... CARPATHIANS / KARPATEN / CARPATHES

KK... CAUCASUS / KAUKASUS / CAUCASE

KR... CRETE / KRETA

LE... LEVANT (LEBANON, SYRIA, ISRAEL)

MA... MADEIRA

MG... MAGHREB (MOROCCO, ALGERIA, TUNISIA)

ML... MALLORCA

PY... PYRENEES / PYRENÄEN

SA... SARDINIA / SARDINIEN / SARDAIGNE

SI... SICILY / SIZILIEN / SICILE

TK... TURKESTAN

→ → → CHARACTERS / MERKMALE / CHARACTERES

★ → → CHARACTERS OF GROUPS / GRUPPENMERKMALE / CHARACTERES DU GROUPE

THE DIFFERENCE IS NOT CLEAR, PERHAPS SYNONYMS

→ ? → UNTERScheidUNG FRAGLICH, VIELLEICHT SYNONYM

LES DIFFÉRENCES NE SONT PAS CLAIRES, PEUT-ETRE SYNONYMIE

!! ↗ BE CAREFUL, DIFFICULT IDENTIFICATION / VORSICHT, SCHWIERIGE BESTIMMUNG  
 ATTENTION, DETERMINATION DIFFICILE

↖ ↖ NOTE THE PROPORTIONS / PROPORTIONEN BEACHTEN / ATTENTION AUX PROPORTIONS

THE OTHER SEX IS UNKNOWN OR INSUFFICIENTLY KNOWN

\* \* \* DAS ANDERE GESCHLECHT IST UNBEKANNT ODER SCHLECHT BEKANNT

L'AUTRE SEXE EST INCONNU OU DECRIT DE MANIERE INSUFFISANTE

V NOTE THE VARIABILITY / VARIABILITÄT BEACHTEN / ATTENTION A LA VARIABILITE

Ⓐ THE FEMALES OF THE RELATED TAXA LOOK THE SAME

DIE ♀ DER VERWANDTEN SEHEN GLEICH AUS

LES ♀ DES ESPECES RELATIVES ONT LES MEMES CHARACTERES

S MORE INSUFFICIENTLY KNOWN TAXA HERE; REVISION NECESSARY

NOCH MEHR SCHLECHT BEKANNT TAXA IN DIESER GRUPPE; REVISION NOTWENDIG

DES TAXA ADDITIONNELS DANS CE GROUPE; REVISION NECESSAIRE

N THESE CHARACTERS ARE NOT ENOUGH FOR A SAFE IDENTIFICATION

DIESE MERKMALE GENÜGEN NICHT FÜR EINE SICHERE BESTIMMUNG

CES CHARACTERES NE DONNENT PAS ASSEZ DE CERTITUDE

E COMPARE ALSO THE MALES / MAN VERGLEICHE AUCH DIE ♂ / COMPAREZ AUSSI LES MALES

THIS FIGURE IS INADEQUATE, BUT NO BETTER ONE AVAILABLE

ABBILDUNG UNZUREICHEND, ABER KEINE BESSERE VORHANDEN

CETTE FIGURE NE SUFFIT PAS, MAIS IL N'Y AVAIT PAS DE MEILLEUR

M PERHAPS A MONSTROSITY / MÖGLICHERWEISE EINE MONSTROSITÄT / PEUT-ETRE UNE MONSTROSITE

H HYBRIDIZATIONS ARE KNOWN IN THE CONTACT ZONE

BASTARDIERUNGEN IN DER KONTAKTZONE BEKANNT

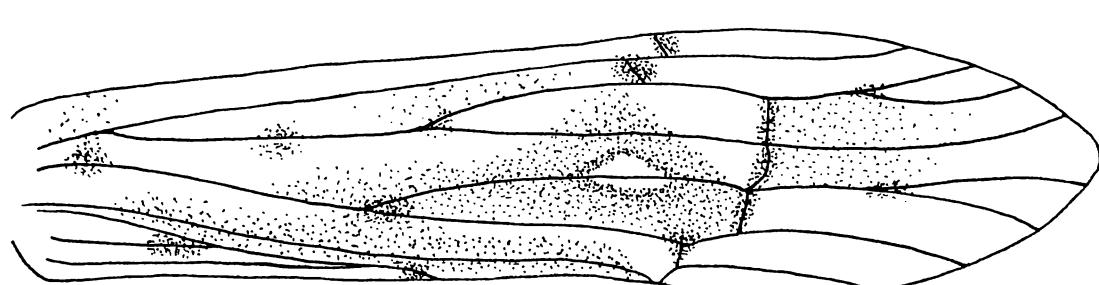
DES HYBRIDISATIONS SONT CONNUES DANS LES ZONES DE CONTACT

? THE PRESENT SYSTEMATIC POSITION IS NOT CLEAR

SYSTEMATISCHE STELLUNG UNSICHER

LA POSITION SYSTEMATIQUE N'EST PAS CERTAINE

BR... BRACHYPTER



Forewing pattern of *Parasetodes respersella*

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