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IN MEMORIAM: « NATURALIST » LAZAR BOTOSANEANU (1927-2012)

Dr. Lazar Botosaneanu, the well-known and prestigious "naturalist" (this was the term he had suggested to his family to use for the announcement of his death), passed away on the 19th of April 2012 in Amsterdam (The Netherlands). As a result of a prolonged antibiotic treatment, he fell into a state of extreme weakness, and after a hospital admission for just over one month, he died as consequence of a stomach bacterial infection that he could not overcome.

He was born in Bucharest (Romania) on the 28th of May 1927. His real first name was Lazar, but due to an editor's mistake, he was known in the academic world by the name Lazare. His earlier career has been briefly summarized by Petru Banarescu on his 75th anniversary (Trav. Mus. Natl. Hist. Nat. "Gr. Antipa", 43: 437-456, 2001). Drawn from a young age to the field of Zoology, he gave lectures at the Faculty of Biology at the University of Bucharest (1945-1949). During his academic studies, he maintained constant contact with the noted zoologist Constantin Motas (1891-1980), who had a considerable scientific and personal influence on the young Botosaneanu. This is clear from the emotive words of L.B. dedicated to his teacher and friend Motas on the occasion of a collective tribute: « Le souvenir de ma première visite dans un temple de la Science le laboratoire du professeur Motas - ne m'a jamais quitté » (see Trav. Mus. Natl. Hist. Nat. "Gr. Antipa", 37: 335-339, 1997).

The year that he graduated, L.B. was promoted Assistant to the chair of Hydrobiology of the Faculty of Biology, and seven years later (1956) he was promoted to the position of senior research worker at the Institute of Speleology. This Institute is recognized and world-renowned as a pioneer in the study of the fauna of underground waters, a field, the Stygofauna, in which he became an accomplished specialist. In this Institute, founded in 1920 by Emil Racovitza and reorganized later by Prof. C. Motas in 1956, he displayed intense activity for over 22 years. In 1978, he was forced to leave Romania due to circumstances which deserve to be briefly commented on.

L.B. was a man of integrity and principles, and above all he was dedicated to the cause of Science; therefore he did not hesitate to repeatedly and vehemently defend this cause against the communist regime. Despite sanctions, oppression and threats, he repeatedly expressed his disagreement using his well-known eloquence and by all the means he had available, either by sending virulent letters to the party headquarters in order "to tell them the truth" about their scientific policy, or by (at that time illegal and provocative) writing to Radio Free Europe in order to catch the attention of the masses and to force the authorities to change their policy. Banarescu also refers to this episode. This act of serious disobedience exhausted the patience of the Securitate (the secret police in communist Romania), who subsequently constantly harassed and intimidated him and his family. In the past, due to his criticism, L.B. had already been reduced for a while to the status of simple laboratory official, assigned to the more humble routine tasks. This circumstance, also reported to me by Henri Tachet, is briefly mentioned by L.B. in his tribute to Prof. Motas to whom he

acknowledges his decisive action to get him out of that difficult situation and to promote his joining to the Institute of Speleology in 1956, just when Prof. Motas had regained his freedom after 7 years of imprisonment for political reasons.

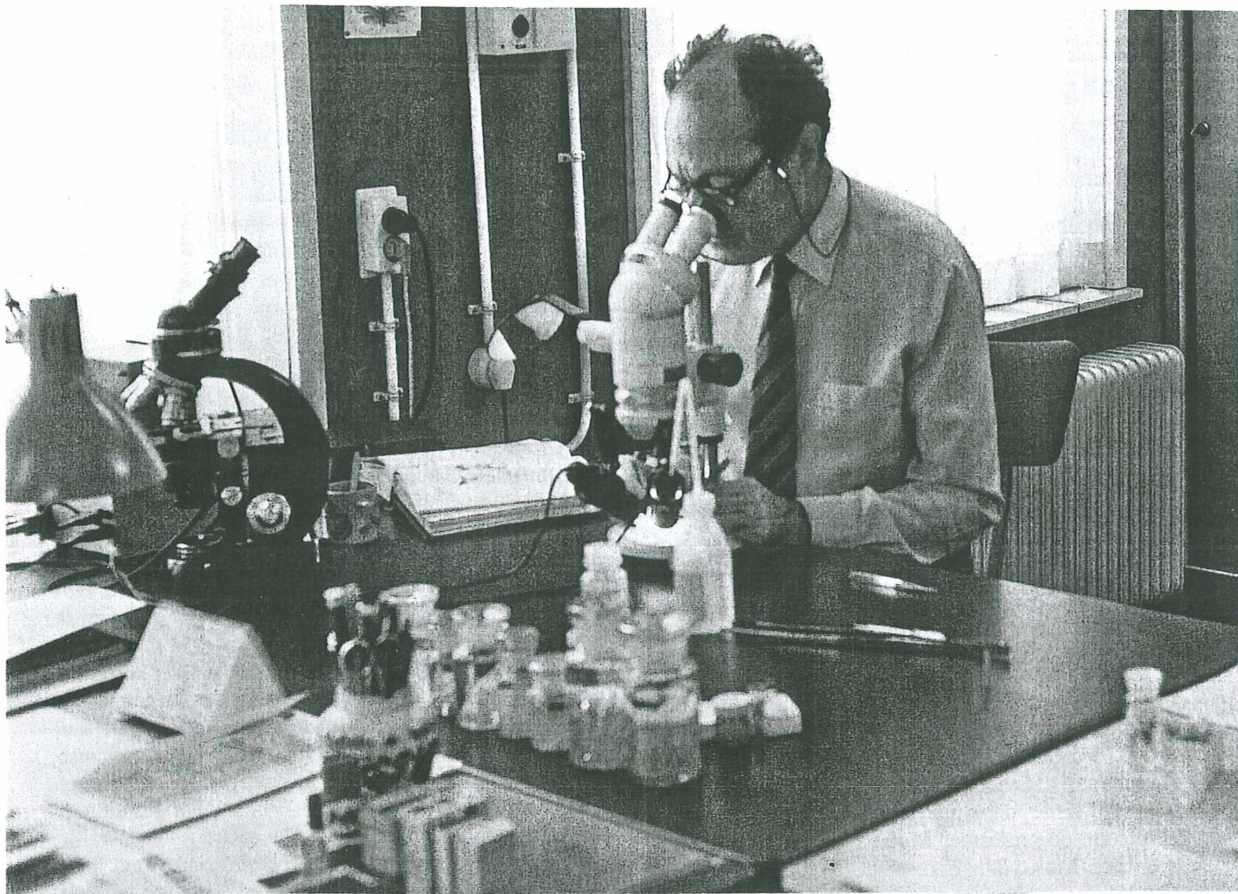
In 1978, convinced that there was little future for him and his family in communist Romania, he decided to leave the country he loved so much. At this point, the intervention of Prof. Jan H. Stock, who made the necessary arrangements to promote his appointment to the University of Amsterdam, was providential. At that time L.B. was already credited with outstanding activity and research experience, and these achievements undoubtedly facilitated him joining the staff of the University of Amsterdam. From January 1979 till 1992, he was appointed as curator at the Zoological Museum of the University of Amsterdam. From 1992 on, he was an honorary staff member of the Zoological Museum.

Lazar Botosaneanu possessed a true Renaissance spirit. He had a multidisciplinary view of science, that resulted in a varied interest in many fields of Biology: Zoology (Entomology), Hydrobiology, Biospeleology (Stygobiology), Ecology, Evolution. Beyond his devotion to the study of nature, he was truly interested in many other things: art, music, history, geography, literature and languages and linguistic issues. It is not uncommon to find references to the classics in some of his papers (i.e. names given to some new taxa from the Dominican Republic, such as *pedophila*, *caab...*, are names of monsters referred by Aristoteles, Plinius, Solinus etc.). It is also very funny to see the careful selection of scientific names extracted from words and expressions from local languages, which conveniently linked (I do not know if this was his intention) would allow the construction of amusing phrases: *madremia*, *quelinda*, *campesina*, *mulata*... *caramba* (see *derivatio nominis* in Trichoptères de Cuba, 1977).

He was an erudite who read a lot and a polyglot, who passed without difficulty from Romanian to French, to English, German, Dutch and Spanish (I can testify that he knew my language very well). But above all, he was a genuine classical music lover. According to his daughter Viviana, he was an accomplished "melomane", with a vast knowledge of the matter and a huge collection of classical music LPs. For his funeral ceremony, which he wanted extremely simple, he carefully selected a number of pieces of classical music to be performed, instead of speeches.

He published his first paper in 1948 and from then until his death, he did not stop for a moment his intense research and publishing activity. 64 years during which research was his main passion and hobby. During six decades, he published 319 papers. His early publications were in French and in Romanian, later he published mainly in English, but also in other languages. L.B. devoted his research mainly to two fields: the study of caddisflies (Trichoptera) and the study of the Stygofauna, especially of some groups of Crustaceans. His contributions in both fields won him international recognition as an authority. Moreover he has made very significant contributions in the field of the biology and ecology of running waters. So his work was extraordinary and will not be easy to summarize and comment on in the few lines that follow.

He has done great taxonomic work, both quantitatively (more than 400 taxa described) and qualitatively, addressing decidedly studies of the more complex



L. Botosaneanu at work in his laboratory at the Museum of Amsterdam 1988
(Photo : Fernanda Cianficconi)



L. Botosaneanu with Giampaolo Moretti, 1995 Minnesota Trichoptera Symposium
(Photo : courtesy of Giambattista Moretti)

taxonomic problems and always paying great attention to the study of individual and population variability. His methodical character, with the thoroughness of his observations and the skill to make highly accurate drawings, has provided hundreds of very useful descriptions and excellent role models for colleagues.

His work on Trichoptera represents, in my opinion, the main core of his research, having published 199 papers on this topic. The first was devoted to the description in 1948 of a new species in Yugoslavia, and from then until 2011, he has followed this activity describing a great number of taxa: 343. This number includes 3 families, 1 subfamily, 14 genera, 2 subgenera, 278 species and 45 subspecies (see attached list).

Naturally he began his caddisfly research studying primarily the fauna of Romania (mainly of the Carpathian Mountains), at a time when knowledge of Romanian Trichoptera was very modest. For decades, he continued to contribute significantly to improve the knowledge of the fauna of his country to make of it one of the best known European faunas. Besides describing more than thirty species from this country, he also published some interesting zoogeographical analyses of the caddisfly fauna.

During his life, he travelled through numerous countries and received material from many colleagues, publishing valuable contributions to the knowledge of the caddisflies of other European countries (Spain, France, Italy, Bulgaria, Yugoslavia...), of the Near East (Lebanon, Israel...), of north-eastern Asia (Korea, Japan) and overall in most Caribbean islands either Dutch, French or British Antilles. Some of his taxonomic studies are of special importance. For example, the volume on the "Trichoptera of the Levant" (1992) ("in the series "Fauna Levantina"), that summarizes the results of a study of fauna in this region over three decades and which represents a reference work required for any taxonomical and biogeographical study of this region.

Three expeditions (1969, 1970 and 1973), designed primarily to explore the subterranean aquatic fauna of Cuba, that were undertaken under the auspices of the Academies of Sciences of Romania and Cuba, were recognized by him as of crucial importance in his research career. Having miraculously survived pulmonary histoplasmosis, acquired in the Cuban caves during the first expedition (see Botosaneanu and Negrea, 2009), these expeditions represented the beginning of a large series of new ones to other Caribbean islands (Haiti: 1979; Lesser Antilles: 1989; Trinidad and Tobago: 1991; Dominican Republic: 1995; French Antilles and Bahamas: 2007...), organized either by the Institute of Speleology (Bucharest) or by the Zoological Institute and Museum (Univ. Amsterdam) and other institutions.

So as a consequence of sporadically sampling caddisflies during stygobiological expeditions or collecting trips entirely devoted to intensive sampling of adult caddisflies, the global contribution of L.B. to the knowledge of the Caribbean region is truly remarkable; he has provided many interesting faunistic, zoogeographical and ecological remarks about different islands, having described an impressive number of new taxa: 49 from Cuba; 17 from Dominican Republic; 16 from Martinique and Guadeloupe; 16 from Trinidad & Tobago; 12 from Haiti, 11 from Jamaica...

His publications on caddisflies were mainly based on adults, but he always paid attention to the study of aquatic stages (larvae and pupae), publishing some

papers on them, including morphological, biological and ecological remarks. It is unfortunate, but understandable, that he didn't lavish more time on this topic, because some of the papers (concerning the biology and life cycle of *Helicopsyche bacescui*) are really admirable. In addition to all these studies, dedicated to extant fauna, L.B. also published some papers on fossil amber fauna, describing 27 taxa of Trichoptera.

Biospeleology, a science founded by Emile Racovitza in 1907 in Romania, was a second period of great development. It started in 1956 with the reorganization of the Institute of Speleology. L.B., as noted above, and combined simultaneously his research on Trichoptera with bioespeleological studies. In this Institute, the team of L.B. and Alexandrina and Ștefan Negrea, studied hundreds of caves, the soil and its annex fauna from the Banat Mountains, Cerna Valley and Poiana Ruscă. Some general publications are especially interesting, such as the valuable book -published together with C. Mota and St. Negrea (1962) - dealing with the biology of the springs and phreatic waters of the Central Romanian plains; the book concerning the caves from Banat and Walachia (Botosaneanu *et al.*, 1967) and considered as a model of a regional speleological monograph (see Negrea, 2007: Trav. Inst. Spéol. «Émile Racovitza», XLV–XLVI: p. 131–167), or the synthesis, published in 1971, concerning the fauna of the subterranean waters from the Banat Mountains.

This biospeleological activity of L.B. had a focus on the study of biodiversity and the evolution of the fauna of aquatic subterranean environments. From 1954, when L.B. published the first paper on a subterranean harpacticoid copepods, he did not stop studying the stygofauna, publishing more than 50 papers on this topic. The last one was published in 2010. So almost 60 years were dedicated to the taxonomy, ecology and evolution of these animals, with particular emphasis on some aquatic habitats and crustacean groups. Also in this field (as in Trichoptera), he has been recognized as an authority, and his taxonomic work was remarkable with a lot of taxa described (3 genera and 50 species and subspecies), mainly of some families of Isopoda (especially Cirolanidae and Anthuridae), Copepoda, Amphipoda and other small crustacean groups. We hope that in the future some specialist in this topic will provide a full account of the taxa of Crustacea described by L.B.

At first, L.B. studied the phreatic waters of the Central Romanian plains and after, as a consequence of the aforementioned expeditions, extended his studies to the West Indies, the circumediterranean region and southeastern Asia. As the tireless worker he was, in 2007, 80 years old but he still traveled to the Bahamas to monitor the stygobitic (mainly anchialine) fauna.

L.B. was an honorary member of the "International Society for Subterranean Biology" and was also, between 1985 and 1992, together with Prof. Jan H. Stock, editor of the journal "Stygologia". But overall, Botosaneanu's name will forever be tied to "Stygofauna mundi" (1985). He worked incredibly for five years editing this volume, which included 89 chapters dedicated to different groups of animals, with 65 specialists as authors (L.B. himself being the author of seven chapters on some Crustacean and Hexapoda groups). In this book, authors provided, in a concise manner, a wealth of information on the world of subterranean waters, including information on its geographical distribution and on its habitats. The book summarized the enormous and scattered amount of

information published during decades and included the discovery of many new types of biological organizations and unexpected habitats. Almost three decades later, this work remains an obligatory reference for all specialists in this field.

The Styfogauna, and the caddisflies, of course, were also for him excellent tools for studying some interesting evolutionary and ecological processes such as sympatric speciation. This mechanism, being considered relatively rare, was postulated as possible by him and he provided some interesting examples. He also paid attention to stygobitization, the glacial subspeciation (and the subspecies concept), springs as refugia for geographical relicts... and many other interesting topics.

L.B. also published some faunistic and ecological notes on other freshwater invertebrates such as the Turbellaria, Gasteropoda, Acari and especially Diptera. In the last group he described, in collaboration with the renown specialist F. Vaillant, new taxa (3 genera and 11 species) of some small families (Psychodidae and Dolichopodidae) from Cuba and Romania.

The biology and ecology of running waters was another of his research lines. In fact, he was a Member of the editorial and advisory board of *Hidrobiologia - Journal of Limnology*. One of his most important contributions in this field was undoubtedly the "Stream Zonation Concept" (Illies & Botosaneanu 1963). This was an attempt to categorize the distribution of organisms in rivers by defining a series of distinct communities along rivers, separated by major faunal transition zones. This classical theory has inspired the researches of many hydrobiologists and encouraged the debate on stream ecology for decades.

He has also paid great attention to studies of the crenon, the biology of springs and springbrooks having for him the right to be considered as a different field of Limnology. So he promoted, as editor, the book "Studies in Crenobiology" (1998) which contains many stimulating ideas for future research and a great wealth of information and references on this topic.

He also paid attention to the popularization of science, and this deserves to be highlighted. His (and Cl. Delamare-Deboutville) book "Formes primitives vivantes" (1970) is one that I will not forget. In addition, his excellent activity as a teacher of many generations of students and researchers at the University should be noted.

L.B. regularly attended international congresses on Trichoptera, where his presence, friendly but always active and polemic, never went unnoticed. Some interesting and high level discussions with renown colleagues, about cladistics methods and ideas, sympatric speciation, and other topics, were initiated because of his, always interesting, communications in the Symposia, and some of them were fortunately published in some Proceedings. I think that, even many years later, they deserve to be re-read carefully (see i.e.: 1974, Proc. First Int. Symp. Trich., pp:68-70)

Throughout his long career as a researcher, L.B. was always very generous with colleagues, and was always ready to collaborate. Proof of this is that, in a regular or sporadic manner, he collaborated with an amazing number (83) of specialists from many different fields: L. Delamare-Deboutville, J. Illies, D. E. Kimmins, K. Kumansky, I. M. Levanidova, H. Malicky, G. Marlier, C. Motas, G. Moretti, A. Neboiss, K. Novak, E. Racovitza, F. Schmid, F. Vaillant... are just a few names belonging

to the long list of disappeared colleagues, all of them co-authors of many of his papers and prominent figures in the history of Trichopterology and other specialties. Many of them also wanted to leave testimony of their friendship or recognition of his work, devoting to him a good number of species: 22 species of Hexapoda (15 Trichoptera), 12 Crustacea, 3 Arachnida and 3 species of other invertebrate groups (see attached list).

I cannot conclude these lines without noting that all his work was rooted in a deep concern for the conservation of nature. His article "Ordo Trichoptera et *Homo insapiens*" (1981) is an excellent example of it. In it, after reviewing the information concerning endangered or vulnerable habitats for these insects, he concludes:

« J'adresse ici un appel à tous les trichoptérologues: nous devons nous sentir plus concernés par le sort de nos insectes, et faire preuve de combativité pour les sauver »

Nowadays his collections of caddisflies, other material and literature are somewhat scattered. Material collected by him, especially caddisflies, from Romania, is preserved in the collections of the "Grigore Antipa" National Museum of Natural History in Bucharest. Most of the material (Trichoptera and Crustacea), including types of new taxa, described after 1978, are generally kept in the Zoological Museum of the University of Amsterdam, but a significant part is to be found in other museums (Smithsonian Institution Washington and the Institut Royal des Sciences Naturelles Brussels,...).

He is survived by Lili, who has been his wife over nearly 58 years, his daughters, Roxana and Viviana and grandsons Thomas and Julien.

I had the privilege to collaborate with Dr. L. Botosaneanu, my dear friend, for over 30 years and never met a man so driven, so committed and so generous with colleagues. His work was his life. The science has lost a great NATURALIST but he has left us a great legacy; we have lost a good and dear colleague. He will be missed and remembered.

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Marcos A. González

Department of Zoology, Faculty of Biology
15782, Campus Vida
Santiago de Compostela, Spain
email: marcos.gonzalez@usc.es

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TRICHOPTERA TAXA PROPOSED BY L. BOTOSANEANU

The taxa are listed according to information provided by the "Trichoptera World Checklist"

*Invalid taxa; +: Fossil taxa

APATANIIDAE

**Apatania motasi* Botosaneanu, 1957d (syn of *Apatania carpathica* Schmid, 1954), Romania

BERAEIDAE

Beraemyia schmidi Botosaneanu, 1960a, Bosnia
Nippoberaea Botosaneanu Nozaki & Kagaya, 1995

BRACHYCENTRIDAE

Micrasema anaticum Botosaneanu, 1974f, Turkey
Micrasema dolcini Botosaneanu & Moretti, 1986 (originally described as ssp), Italy
Micrasema (gelidum) canusa Botosaneanu, 1990 (in Botosaneanu, L., 1988a), Canada
Micrasema (gelidum) extremum Botosaneanu, 1990 (in Botosaneanu, L., 1988a), Russia
Micrasema (gelidum) kurilicum Botosaneanu, 1990 (in Botosaneanu, L., 1988a), Russia
Micrasema (gelidum) primoricum Botosaneanu, 1990 (in Botosaneanu, L., 1988a), Russia
Micrasema nepalicum Botosaneanu, 1976a (syn? of *Micrasema punjaubi*, Mosely, 1938), Nepal

CALAMOCERATIDAE

Anisocentropus gilvimagula Botosaneanu & de Vos, 2004, Indonesia
**Anisocentropus bipustulatus* Botosaneanu & de Vos, 2004 (syn of *Anisocentropus banghaasi*, Ulmer, 1909), Indonesia

ECNOMIDAE

Austrotinodes madininae Botosaneanu, 1990a, Martinique

+**ELECTRALBERTIDAE** Botosaneanu & Wichard, 1983

+*Electralberta* Botosaneanu & Wichard, 1983

+*Electralberta cretatica* Botosaneanu & Wichard, 1983, Canada

GLOSSOMATIDAE

Agapetus alicae Neboiss & Botosaneanu, 1988, Indonesia
Agapetus basagureni (González & Botosaneanu, 1995), Spain
Agapetus belareca Botosaneanu, 1957c, Romania
Agapetus gunungus Neboiss & Botosaneanu, 1988, Indonesia
Agapetus lindus Neboiss & Botosaneanu, 1988, Indonesia
Agapetus marlierorum (Botosaneanu, 1980c), Portugal
Agapetus rectigonopoda Botosaneanu, 1957a, Romania
Agapetus slavorum Botosaneanu, 1960a, Bosnia
Agapetus torautus Neboiss & Botosaneanu, 1988
Campiophora mulata Botosaneanu, 1977c, Cuba
Cariboptila caab Botosaneanu, 1996a, Dominican Republic
Cariboptila guajira Botosaneanu, 1977c, Cuba
Cariboptila poquita Botosaneanu, 1977c, Cuba
Cariboptila soltera Botosaneanu, 1977c, Cuba
Cubanoptila madrema Botosaneanu, 1977c, Cuba

Cubanoptila muybonita Botosaneanu, 1977c, Cuba
Cubanoptila tridens Botosaneanu, 1998 (in Botosaneanu, L. & Hyslop, E. J., 1998), Jamaica
Glossosoma hazbanicum Botosaneanu, 1971, Israel
Mortoniella macuta (Botosaneanu, 1998c), Venezuela

GOERIDAE

**Goera interrogationis* Botosaneanu, 1970a (syn of *Goera horni* Navás, 1926), DPR Korea

**Silo varipilosus* Botosaneanu, 1953b (syn of *Silo graellsii* E Pictet, 1865), Romania

HELICOPSYCHIDAE

Helicopsyche altercoma Botosaneanu & Flint, 1991b, Dominican Republic
Helicopsyche bacescui Orghidan & Botosaneanu, 1953, Romania
Helicopsyche centrocubana Botosaneanu & Flint, 1991b, Cuba
Helicopsyche cotopaxi Botosaneanu & Flint, 1982, Ecuador
Helicopsyche dominicana Botosaneanu & Flint, 1991b, Dominican Republic
Helicopsyche falcigona Botosaneanu & Flint, 1991b, Cuba
Helicopsyche granpiedrana Botosaneanu & Sykora, 1973, Cuba
Helicopsyche kalaom Botosaneanu, 1996a, Dominican Republic
Helicopsyche maculisternum Botosaneanu, 1993 (in Botosaneanu, L. & Alkins-Koo, M., 1993), Trinidad
**Helicopsyche margaritensis* Botosaneanu, 1959e (syn of *Helicopsyche vergelana*, Ross, 1956), Venezuela
Helicopsyche merida Botosaneanu & Flint, 1982, Venezuela
Helicopsyche molesta Botosaneanu, 1998 (originally described as ssp) (in Botosaneanu, L. & Hyslop, E. J., 1998), Jamaica
Helicopsyche nigrisensilla Botosaneanu & Flint, 1991b, Dominican Republic
Helicopsyche occidentalis Botosaneanu & Flint, 1991b, Cuba
Helicopsyche paucispina Botosaneanu & Flint, 1991b, Cuba
Helicopsyche propinqua Botosaneanu & Flint, 1991b, Puerto Rico
Helicopsyche sigillata Botosaneanu & Flint, 1991b, Cuba
Helicopsyche singularis Botosaneanu & Flint, 1991b, Puerto Rico

HYDROBIOSIDAE

**Apsilochorema coreanum* Botosaneanu, 1970a (syn. of *Apsilochorema sutshanum* Martynov, 1934), DPR Korea
Atopsyche lilicae Botosaneanu, 1991b, Haiti
Atopsyche vinai Sykora & Botosaneanu, 1973, Cuba
+*Palaeohydrobiosis* Botosaneanu & W Wichard, 1983
+*Palaeohydrobiosis siberambra* Botosaneanu & Wichard, 1983, Russia

HYDROPSYCHYDAE

Calosopsyche bohio (Botosaneanu, 1991b), Haiti
Calosopsyche dearmasi (Botosaneanu 1980f), Cuba
Centromacronema pygmaeum Botosaneanu, 1993 (in Botosaneanu, L. & Alkins-Koo, M., 1993), Trinidad & Tobago
**Hydropsyche atlanta* Botosaneanu, 1975a (syn of *Hydropsyche obscura* Martynov, 1935), Algeria

- **Hydropsyche batavorum* Botosaneanu, 1979e (syn of *Hydropsyche modesta* Navás, 1925), Jordan
Hydropsyche bujnurdica Botosaneanu, 1998, Iran
Hydropsyche contubernalis turkomanica Botosaneanu, 2004a, Turkmenistan
Hydropsyche cyrnotica Botosaneanu & Giudicelli, 1981b, France
**Hydropsyche dissimulata* Kumanski & Botosaneanu, 1974 (syn of *Hydropsyche modesta* Navás, 1925), Bulgaria
**Hydropsyche fallaciosa* Kumanski & Botosaneanu, 1974 (syn of *Hydropsyche bulbifera* McLachlan, 1878), Romania
**Hydropsyche fischeri* Botosaneanu, 1980d (syn of *Hydropsyche smiljae* Marinkovic-Gospodnetic, 1979), Bosnia
Hydropsyche lagranja Botosaneanu, 1999d, Spain
Hydropsyche lepnevae Botosaneanu, 1968 (1967a), Georgia
Hydropsyche longindex Botosaneanu & Moubayed, 1985 (in Moubayed, Z. & Botosaneanu, L., 1985), Lebanon
Hydropsyche martynovi Botosaneanu, 1968 (1967a), Russia
Hydropsyche modesta janstockiana Botosaneanu, 1979e, Jordan
**Hydropsyche ouedorum* Botosaneanu, 1975a (syn? of *Hydropsyche fezana* Navás, 1932), Morocco
Hydropsyche peristerica Botosaneanu & Marinkovic-Gospodnetic, 1968 (1966), Bosnia
Hydropsyche pictetorum Botosaneanu & Schmid, 1973, Spain
**Hydropsyche sinuata* Botosaneanu & Marinkovic-Gospodnetic, 1968 (1966) (syn of *Hydropsyche peristerica* Botosaneanu & Marinkovic-Gospodnetic, 1968), Romania
Hydropsyche subalpina Botosaneanu & Giudicelli, 2004b, France
Hydropsyche tabacarui Botosaneanu, 1960b, Romania
Hydropsyche theodorianae Botosaneanu, 1974b, Israel
Hydropsyche tjederi Botosaneanu & Marinkovic-Gospodnetic, 1968 (1966), Romania
Leptonema islamarga Botosaneanu, 2002 (in Botosaneanu, L. & Viloria, A.L., 2002), Venezuela
Macronema studiosorum Botosaneanu & Hyslop, 1999, Jamaica
Macronema tremenda Botosaneanu, 1980f, Cuba
Smicridea fuscifurca Botosaneanu, 1998 (in Botosaneanu, L. & Hyslop, E. J., 1998), Jamaica
Smicridea karukerae Botosaneanu, 1994a, Guadeloupe
Smicridea meridensis Botosaneanu & Flint, 1982, Venezuela
Smicridea martinica Botosaneanu & Thomas, 2005, Martinique
Streptopsyche parander (Botosaneanu, 1996a), Dominican Republic
- HYDROPTILIDAE**
+*Agraylea cretaria* Botosaneanu, 1995f, USA
+*Agraylea lentiginosa* Botosaneanu, Johnson & Dillon, 1998, USA
Alisotrichia aglae Botosaneanu, 1991b, Haiti
Alisotrichia alayoana Botosaneanu, 1977c, Cuba
Alisotrichia aquaecadentis Botosaneanu, 1991b, Haiti
Alisotrichia arcana Botosaneanu, 1991b, Haiti
Alisotrichia chiquitica Botosaneanu, 1977c, Cuba
Alisotrichia cimarrona Botosaneanu, 1977c, Cuba
Alisotrichia euphrosyne Botosaneanu, 1991b, Haiti
Alisotrichia flintiana Botosaneanu, 1977c, Cuba
Alisotrichia fundorai (Botosaneanu & Sykora, 1973), Cuba
Alisotrichia giampaolina Botosaneanu, 1998 (in Botosaneanu, L. & Hyslop, E. J., 1998), Jamaica
Alisotrichia hirudopsis aitiya Botosaneanu, 1995c, Dominican Republic
Alisotrichia hispaniolina Botosaneanu, 1991b, Haiti
Alisotrichia orophila guadeloupea Botosaneanu, 1994a, Guadeloupe
Alisotrichia tenuivirga Botosaneanu, 1998 (in Botosaneanu, L. & Hyslop, E. J., 1998), Jamaica
Alisotrichia thalia Botosaneanu, 1991b, Haiti
Alisotrichia timouchela Botosaneanu, 1989a, Martinique
Allotrichia teldanica Botosaneanu, 1974b, Israel
Allotrichia vilnensis orientalis Botosaneanu, 1992b, Lebanon
+*Burminoptila* Botosaneanu, 1981a
+*Burminoptila bemeneha* Botosaneanu, 1981a, Myanmar
Byrsoteryx bipartitgera Botosaneanu, 2000c, Guadeloupe
Cerasmatrixia Flint, Harris & Botosaneanu, 1994
Cerasmatrixia argylensis Flint, Harris & Botosaneanu, 1994, Tobago
Cerasmatrixia spinosa Flint, Harris & Botosaneanu, 1994, Venezuela
Cerasmatrixia trinitatis Flint, Harris & Botosaneanu, 1994, Trinidad
**Hydroptila acutissima* Botosaneanu, 1993 (syn of *Hydroptila grenadensis* Flint, 1968) (in Botosaneanu, L. & Alkins-Koo, M., 1993), Trinidad
**Hydroptila bajgirana* Botosaneanu, 1983b (syn of *Hydroptila angulata* Mosely, 1922), Iran
Hydroptila dejaloni Botosaneanu, 1980d, Spain
Hydroptila dominicana Botosaneanu, 1995c, Dominican Republic
Hydroptila dorsoprocessuata Botosaneanu, 1993a, Russia
Hydroptila fonsorontina Botosaneanu & Moubayed, 1985 (in Moubayed, Z. & Botosaneanu, L., 1985), Lebanon
Hydroptila giudicellorum Botosaneanu, 1980d, France
Hydroptila libanica Dia & Botosaneanu, 1983, Lebanon
Hydroptila mendli levanti Botosaneanu, 1984a, Lebanon
Hydroptila palaestinae Botosaneanu & Gasith, 1971, Israel
Hydroptila phenianica Botosaneanu, 1970a, DPR Korea
Hydroptila phoeniciae Botosaneanu & Dia, 1983 (in Dia, A. & Botosaneanu, L., 1983), Lebanon
Hydroptila selvatica Botosaneanu, 1977c, Cuba
Hydroptila tobaga Botosaneanu, 1993 (in Botosaneanu, L. & Alkins-Koo, M., 1993), Tobago
Hydroptila viganoi Botosaneanu, 1974b, Israel
Ithytrichia bosniaca Murgoci, Botnariuec & Botosaneanu, 1948, Bosnia
**Ithytrichia dovporianae* Botosaneanu, 1980c (syn of *Ithytrichia clavata*, Morton, 1905), Israel
Leucotrichia inflaticornis Botosaneanu, 1993 (in Botosaneanu, L. & Alkins-Koo, M., 1993), Trinidad
Leucotrichia termitiformis Botosaneanu, 1993 (in Botosaneanu, L. & Alkins-Koo, M., 1993), Trinidad
**Loxotrichia quelinda* Botosaneanu, 1977c (syn of *Loxotrichia puertoricensis* Flint, 1964), Cuba
Metrichia cafetalera Botosaneanu, 1980f, Cuba
Metrichia carbetina (Botosaneanu, 1994a), Guadeloupe
Metrichia espera Botosaneanu, 1977c, Cuba

- Metrichia favus* (Botosaneanu, 1993) (in Botosaneanu, L. & Alkins-Koo, M., 1993), Trinidad
- Metrichia fontismoreaui* (Botosaneanu, 1991b), Haiti
- Metrichia kumanskii* (Botosaneanu, 1991b), Haiti
- Metrichia kumanskii jamaicae* Botosaneanu, 1998 (in Botosaneanu, L. & Hyslop, E. J., 1998), Jamaica
- Metrichia madicola* (Botosaneanu, 1994a), Guadeloupe
- Metrichia munieca* Botosaneanu, 1977c, Cuba
- Metrichia necopina* Botosaneanu & Thomas, 2005, Martinique
- Metrichia platigona* (Botosaneanu, 1993) (in Botosaneanu, L. & Alkins-Koo, M., 1993), Tobago
- +*Nanoagraylea* Botosaneanu, 1995f
- Neotrichia armata* Botosaneanu, 1993 (in Botosaneanu, L. & Alkins-Koo, M., 1993), Tobago
- Neotrichia lacertina* Botosaneanu, 1994a, Guadeloupe
- Neotrichia margaritena* Botosaneanu, 2002 (in Botosaneanu, L. & Vilorio, A.L., 2002), Venezuela
- Neotrichia pequenita* Botosaneanu, 1977c, Cuba
- Neotrichia pinarenia* Botosaneanu, 1980f, Cuba
- Neotrichia soleaferrea* Botosaneanu, 1998 (in Botosaneanu, L. & Hyslop, E. J., 1998), Jamaica
- Neotrichia unamas* Botosaneanu, 1993 (in Botosaneanu, L. & Alkins-Koo, M., 1993), Tobago
- +*Novajerseya* Botosaneanu, Johnson & Dillon, 1998
- +*Novajerseya glesumica* Botosaneanu, Johnson & Dillon, 1998, USA
- Ochrotrichia ayaya* Botosaneanu, 1977c (originally described as ssp), Cuba
- Ochrotrichia cachonera* Botosaneanu, 1995c, Dominican Republic
- Ochrotrichia caramba* Botosaneanu, 1977c, Cuba
- Ochrotrichia cavitectum* Botosaneanu, 1998 (in Botosaneanu, L. & Hyslop, E. J., 1998), Jamaica
- Ochrotrichia ingloria* Botosaneanu, 1995c, Dominican Republic
- Ochrotrichia islenia* Botosaneanu, 1977c, Cuba
- Ochrotrichia serra* Botosaneanu, 1991b, Haiti
- Ochrotrichia villarenia* Botosaneanu, 1980f, Cuba
- Oxyethira alaluz* Botosaneanu, 1980f, Cuba
- Oxyethira albaequeae* Botosaneanu, Dominican Republic
- **Oxyethira assia* Botosaneanu & Moubayed, 1985 (syn of *Oxyethira falcata* Morton, 1893) (in Moubayed, Z. & Botosaneanu, L., 1985), Lebanon
- Oxyethira campanula* Botosaneanu, 1970a, DPR Korea
- Oxyethira campesina* Botosaneanu, 1977c, Cuba
- Oxyethira mirebalina* Botosaneanu, 1991b, Haiti
- Oxyethira ortizorum* Botosaneanu, 1995c, Dominican Republic
- Oxyethira tega antillarum* Botosaneanu, 1994a, Guadeloupe
- Stactobia aoualina* Botosaneanu & Dia, 1983 (in Dia, A. & Botosaneanu, L., 1983), Lebanon
- Stactobia distinguenda* Botosaneanu & Nozaki, 1996, Japan
- **Stactobia eretziana* Botosaneanu & Gasith, 1971 (syn of *Stactobia caspersi* Ulmer, 1950), Israel
- Stactobia gomerina* Botosaneanu, 1981c, Spain
- Stactobia hattorii* Botosaneanu & Nozaki, 1996, Japan
- Stactobia inexpectata* Botosaneanu & Nozaki, 1996, Japan
- Stactobia makartschenkoi* Botosaneanu & Levanidova, 1988, Russia
- Stactobia margalitana* Botosaneanu, 1974b, Israel
- Stactobia nishimotoi* Botosaneanu & Nozaki, 1996, Japan
- Stactobia pacatoria* Dia & Botosaneanu, 1980, Lebanon
- Stactobiella alasignata* Botosaneanu, 1993a, Russia
- STACTOBIINAE** Botosaneanu, 1956b
- LEPIDOSTOMATIDAE**
- Crunoecia monospina* Botosaneanu, 1960a, Bosnia, Romania
- LEPTOCERIDAE**
- Adicella altandroconia* Botosaneanu & Novak, 1965b, Romania
- Adicella balcanica* Botosaneanu & Novak, 1965b, Bosnia
- Adicella melanella marocana* Botosaneanu, 1989d, Morocco
- Amphoropsyche janstockiana* Botosaneanu, 1990b, Saint Vincent
- Amphoropsyche woodruffi multispinosa* Botosaneanu, 1993 (originally described as species) (in Botosaneanu, L. & Alkins-Koo, M., 1993), Trinidad
- **Athripsodes taounate algiricus* Botosaneanu, 1989c (syn of *Athripsodes ygramul* Malicky & Lounaci, 1987), Algeria
- +*Calamodontus* Botosaneanu & Wichard, 1983
- +*Calamodontus grandaevus* Botosaneanu & Wichard, 1983, Russia
- Ceraclea hastata* (Botosaneanu, 1970a), DPR Korea
- Ceraclea litania* Botosaneanu & Dia, 1983 (in Dia, A. & Botosaneanu, L., 1983), Lebanon
- **Nectopsyche cupreosquamosa* Botosaneanu, 1993 (syn of *Nectopsyche gemmoides* Flint, 1981) (in Botosaneanu, L. & Alkins-Koo, M., 1993), Trinidad
- Nectopsyche globigona* Botosaneanu, 1998 (in Botosaneanu, L. & Hyslop, E. J., 1998), Jamaica
- Oecetis maspeluda* Botosaneanu, 1977c, Cuba
- Oecetis terraesanctae* (Botosaneanu & Gasith, 1971), Israel
- +*Praeathripsodes* Botosaneanu & Wichard, 1983
- +*Praeathripsodes jantar* Botosaneanu & Wichard, 1983, Russia
- Setodes kugleri* Botosaneanu & Gasith, 1971, Israel
- Setodes viridis huliethica* Botosaneanu & Gasith, 1971, Israel
- Setodes viridis iranensis* Botosaneanu & Gasith, 1971, Iran
- **Triaenodes conspersus banaticus* Botosaneanu, 1958a (syn of *Triaenodes kawraiskii* Martynov, 1909), Georgia
- Triaenodes proszynskii* (Marlier & Botosaneanu, 1968), Ivory Coast
- Trichosetodes polonorum* Botosaneanu, 1970a (syn of *Trichosetodes japonicus* Tsuda, 1942), DPR Korea
- LIMNAPHILIDAE**
- **Acrophylax uncatus* Murgoci & Botosaneanu, 1952 (syn of *Chionophylax mindszentyi* Schmid, 1951), Romania
- Allogamus corsicus illiesorum* Botosaneanu, 1980c (originally described as species), Italy
- Alpopsyche* Botosaneanu & Giudicelli, 2004b
- Annitella lateroproducta* (Botosaneanu, 1952b), Romania
- Apatania mercantoura* Botosaneanu & Giudicelli, 2004a, France
- **Carpatoopsyche (Carpatoopsyche)* Botosaneanu, 1952b (syn of *Annitella*)
- Chaetopterygopsis sisestii* Botosaneanu, 1961a, Romania
- Chaetopteryx biloba* Botosaneanu, 1960b, Romania
- **Chaetopteryx cissylvanica* Botosaneanu, 1959b (syn of *Chaetopteryx bosniaca* Marinkovic-Gospodnetic, 1959), Romania

- **Chaetopteryx frontisdraconis* Botosaneanu, 1993d (syn of *Chaetopteryx bosniaca* Marinkovic-Gospodnetic, 1959), Romania
Chaetopteryx rugulosa schmidi Botosaneanu, 1957c, Romania
Chaetopteryx trinacriae Botosaneanu, Cianficconi & Moretti, 1986, Italy
Chaetopteryx villosa gonzalezi Botosaneanu, 1980d, Spain
Chionophylax monteryla Botosaneanu, 1957f, Romania
Consorophylax piemontanus Kimmins & Botosaneanu, 1967, Italy
Consorophylax styriacus Kimmins & Botosaneanu, 1967, Austria
**Drusus alpimar* Botosaneanu & Giudicelli, 1983 (syn of *Cryptothrix nebulicola* McLachlan, 1867), France
Drusus biguttatus teunissenii Botosaneanu & Giudicelli, 2004b, France
Drusus buscatensis Botosaneanu, 1960c, Romania
Drusus romanicus Murgoci & Botosaneanu, 1953, Romania
Drusus schmidi Botosaneanu, 1960a, Bosnia
**Limnephilus audeus* Botosaneanu, 2000b (syn of *Limnephilus centralis* Curtis, 1834), Francia
**Limnephilus cianficconiae hispaniae* Botosaneanu, 2004b (syn of *Limnephilus sparsus* Curtis, 1834), Spain
Limnephilus hermonianus Botosaneanu, 1992b, Lebanon and Syria
Melampophylax altuspyrenaicus Botosaneanu, 1994b, France
Melampophylax cantalicus Botosaneanu, 1994b, France
Melampophylax nepos triangulifera Botosaneanu, 1957d, Romania
Melampophylax polonicus banaticus Botosaneanu, 1995b, Romania
Melampophylax polonicus gutinicus Botosaneanu, 1995b, Romania
**Metanoea vercorsica* Botosaneanu & Dumont, 2003 (syn of *Metanoea malickyi* Sipahiler, 1992), France
Metapsilopteryx Botosaneanu, 1957d
Pseudostenophylax riedeli Botosaneanu, 1970a, DPR Korea
Psilopteryx curvclavata Botosaneanu, 1957a, Romania
Psilopteryx psorosa bohemosaxonica Mey & Botosaneanu, 1985, Germany
Psilopteryx psorosa gutinensis Mey & Botosaneanu, 1985, Romania
Psilopteryx psorosa retezatica Botosaneanu & Schneider, 1978, Romania
Psilopteryx psorosa transsylvanica Mey & Botosaneanu, 1985, Romania
Rhadicoleptus alpestris macedonicus Botosaneanu & Riedel, 1965b, Macedonia
Rhadicoleptus alpestris meridiocarpaticus Botosaneanu & Riedel, 1965b, Romania
Rhadicoleptus alpestris sylvanocarpaticus Botosaneanu & Riedel, 1965b, Romania
**Stenophylax racovitzae* Botosaneanu, 1959c (syn of *Stenophylax mucronatus* McLachlan, 1880), France
Stenophylax torosicus Botosaneanu, 1995b, Turkey
- ODONTOCERIDAE**
**Psilotreta falcula* Botosaneanu, 1970a (syn of *Psilotreta kisoensis* Iwata, 1928), DPR Korea
Psilotreta locumtenens Botosaneanu, 1970a, DPR Korea
- PHILOPOTAMIDAE**
**Chimarra alayoi* Botosaneanu, 1980f (syn of *Chimarra moesta* Banks, 1924), Cuba
Chimarra caribea tobago Botosaneanu, 1990a, Tobago
Chimarra cubanorum Botosaneanu, 1980f, Cuba
Chimarra formosa Botosaneanu & de Vos, 2006, Papua New Guinea
Chimarra garciai Botosaneanu, 1980f, Cuba
Chimarra guapa Botosaneanu, 1977c, Cuba
Chimarra haesitationis Botosaneanu, 1994a, Guadeloupe
Chimarra hairouna Botosaneanu, 1990a, Saint Vincent
Chimarra koki Botosaneanu, 1996a, Dominican Republic
Chimarra quadrifurcata Botosaneanu, 1994a, Guadeloupe
Chimarra spinulifera galalcha Botosaneanu, 1996a, Dominican Republic
**Dolophilodes hapirensis* Botosaneanu, 1970a (syn of *Kisaura aurascens* Martynov, 1934), DPR Korea
Dolophilodes mroczkowskii Botosaneanu, 1970a, DPR Korea
Kisaura tsudai (Botosaneanu, 1970a), DPR Korea
Wormaldia cantabrica González & Botosaneanu, 1983, Spain
Wormaldia juliani vaillantorum Botosaneanu, 1980d (originally described as ssp) Corfu Island
Wormaldia kimminsi Botosaneanu, 1960a (originally described as ssp), Macedonia
Wormaldia langohri Botosaneanu & Giudicelli, 2001, France
Wormaldia lusitanica González & Botosaneanu, 1983, Spain and Portugal
Wormaldia occipitalis bosniaca Botosaneanu, 1960a, Bosnia
+ *Wormaldia praecursor* Botosaneanu, 1995f, USA
Wormaldia saldetica Botosaneanu & González, 1984, Spain
- POLYCENTROPIDAE**
+ *Archaeopolycentra* Botosaneanu & Wichard, 1983
+ *Archaeopolycentra zherikhini* Botosaneanu & Wichard, 1983, Russia
**Cyrnus maroccanus* Botosaneanu, 1983b (syn of *Cyrnus monserrati* González & Otero, 1983), Morocco
+ *Holocentropus spurius* Botosaneanu & Wichard, 1983, Russia
Nyctiophylax hjangsanchonus Botosaneanu, 1970a, DPR Korea
Plectrocnemia baculifera Botosaneanu, 1970a, DPR Korea
**Plectrocnemia brevis gracilligonopoda* Botosaneanu, 1960a (syn of *Plectrocnemia brevis* McLachlan, 1871), Bosnia
Plectrocnemia geniculata prealpina Botosaneanu & Giudicelli, 2004b, France
Plectrocnemia kisbelai Botosaneanu, 1967c, Romania
Polycentropus criollo Botosaneanu, 1980f, Cuba
Polycentropus flavomaculatus hebraeus Botosaneanu & Gasith, 1971, Israel
Polycentropus ierapetra baroukus Botosaneanu & Dia, 1983 (originally described as species) (in Dia, A. & Botosaneanu, L., 1983), Lebanon
Polycentropus schmidi Novak & Botosaneanu, 1965a, Slovakia
Polycentropus turquino Botosaneanu, 1980f, Cuba
Polypsectropus pugiunculatus Botosaneanu, 1993 (in Botosaneanu, L. & Alkins-Koo, M., 1993), Trinidad
+ *Veteropsyche* Botosaneanu, Johnson & Dillon, 1998

+*Veteropsyche gelhausi* Botosaneanu, Johnson & Dillon, 1998, USA

PSUDONEURECLIPSIDAE

Antillopsyche ayacara Botosaneanu, 1980f, Cuba

Antillopsyche demma Botosaneanu, 1996a, Dominican Republic

PSYCHOMYIIDAE

Psychomyia uncatissima (Botosaneanu, 1970a), DPR Korea

Tinodes algericus hispaniae Botosaneanu & García de Jalón, 1987, Spain

Tinodes antonioi Botosaneanu & Taticchi-Vigano, 1974, Italy

Tinodes assimilis cantabricus Botosaneanu & González, 2001, Spain

Tinodes assimilis rifensis Botosaneanu & González, 2001, Morocco

Tinodes caputaquae Botosaneanu & Gasith, 1971, Israel

Tinodes (dives) cantabricus Botosaneanu & González, 2001, Spain

Tinodes dives consiglioi Botosaneanu, 1980c, Italy

**Tinodes dives jeekeli* Botosaneanu, 1980c (syn of *T. dives consiglioi* Botosaneanu, 1980), Croatia

Tinodes israelicus Botosaneanu & Gasith, 1971, Israel

Tinodes kadiellus Botosaneanu & Gasith, 1971, Israel

Tinodes negeviensis Botosaneanu & Gasith, Israel

Tinodes polifurculatus Botosaneanu, 1956b, Bulgaria

**Tinodes pseudorostocki* Botosaneanu, 1960a (syn of *Tinodes unidentatus* Klapalek, 1894), Macedonia

Tinodes raina Botosaneanu, 1960b, Romania

Tinodes tohmei Botosaneanu & Dia, 1983 (in Dia, A. & Botosaneanu, L., 1983), Lebanon

PTILOCOLEPIDAE

Palaeagapetus finisorientis Botosaneanu & Levanidova, 1987, Russia

+*Palaeagapetus furcilla* Botosaneanu, Johnson & Dillon, 1998, USA

RHYACOPHILIDAE

+*Rhyacophila antiquissima* Botosaneanu & Wichard, 1983, Russia

Rhyacophila carpathica Botosaneanu, 1995b, Romania

Rhyacophila cibinensis Botosaneanu & Marinkovic-Gospodnetic, 1967, Carpathian Mountains

Rhyacophila confinium Botosaneanu, 1957a, Carpathian Mountains

Rhyacophila confissa Botosaneanu, 1970a, DPR Korea

Rhyacophila doehleri Botosaneanu, 1957c, Romania

Rhyacophila dumogana Neboiss & Botosaneanu, 1988, Indonesia

Rhyacophila fagarashiensis Botosaneanu, 1964a, Romania

Rhyacophila fischeri Botosaneanu, 1957c, Romania

Rhyacophila kimminsiana Botosaneanu, 1958b, Carpathian Mountains

Rhyacophila mjohjangsanica Botosaneanu, 1970a, DPR Korea

Rhyacophila morettina Botosaneanu, 1980d, Bosnia

Rhyacophila motasi Botosaneanu, 1957a, Romania

Rhyacophila mroczkowskii Botosaneanu, DPR Korea

Rhyacophila orchidani Botosaneanu, 1952a, Romania

Rhyacophila riedeliana Botosaneanu, 1970a, DPR Korea

Rhyacophila singularis Botosaneanu, 1970a, DPR Korea

Rhyacophila trescaviscensis Botosaneanu, 1960a, Bosnia

**Rhyacophila valkanovi* Botosaneanu 1956b (syn of *Rhyacophila torrentium* Pictet, 1834), Carpathian Mountains

Rhyacophila vallisclosae Giudicelli & Botosaneanu, 1999, France

Rhyacophila vicina Botosaneanu, 1970a, DPR Korea

Rhyacophila vranitzensis Botosaneanu & Marinkovic-Gospodnetic, 1967, Bosnia

+**TAYMYRELECTRONIDAE** Botosaneanu & Wichard, 1983

+*Taymyrelectron* Botosaneanu & Wichard, 1983

+*Taymyrelectron sukatshevae* Botosaneanu & Wichard, 1983, Russia

UENOIDAE

Uenoa fernandoschmidi Botosaneanu, 1979b, India

**Uenoa janetscheki* Botosaneanu, 1976a (syn of *Uenoa hiberna* Kimmins, 1964), Nepal

XIPHOCENTRONIDAE

Xiphocentron cubanum orientale Botosaneanu, 1993c, Cuba

Xiphocentron parentum Botosaneanu, 1988b, Martinique

DIPTERA TAXA PROPOSED BY L. BOTOSANEANU

PSYCHODIIDAE

Arisemus hexadactylus Botosaneanu & Vaillant, 1970

Arisemus tetradactylus Botosaneanu & Vaillant, 1970

Neoarismus Botosaneanu & Vaillant 1970

Philosepedon cubana Botosaneanu & Vaillant, 1970,

Quatiella Botosaneanu & Vaillant, 1970

DOLICHOPODIDAE

Campsicnemus inornatus Botosaneanu & Vaillant, 1973

Chrysotus cubanus Botosaneanu & Vaillant, 1973

Enlinia escambratica Botosaneanu & Vaillant, 1973

Enlinia piedrana Botosaneanu & Vaillant, 1973

Enlinia tuberosa Botosaneanu & Vaillant, 1973

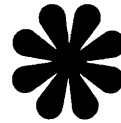
Enlinia spinimana Botosaneanu & Vaillant, 1973

Harmstonia caburnica Botosaneanu & Vaillant, 1973

Neorhaphium Botosaneanu & Vaillant, 1973

Neorhaphium spinatarsis (Botosaneanu & Vaillant, 1973)

LIST OF TAXA DEDICATED TO L. BOTOSANEANU



TRICHOPTERA

Allogamus botosaneanui Moretti, 1991
Atanatolica botosaneanui Flint, 1981
Beraea botosaneanui Moretti, 1981
Catoxyethira botosaneanui Guenda, 1997
Cubanoptila botosaneanui Kumanski, 1987
Drusus botosaneanui Kumanski, 1968
Ernodes botosaneanui Vaillant, 1982
Hydropsyche botosaneanui
 Marinkovic-Gospodnetic, 1966
Hydroptila botosaneanui Kumanski, 1990
Leucotrichia botosaneanui Flint, 1996
Pseudoneureclipsis botosaneanui Morse, 2001
Psychomyia botosaneanui Schmid, 1997
Stactobia botosaneanui Schmid, 1959
Wormaldia copiosa botosaneanui Moretti, 1981
Triaenodes botosaneanui Marlier, 1978

DIPTERA

Chionea botosaneanui (Burghel-Balacesco, 1969)
Jungiella botosaneanui (Vaillant 1963)
Polypedilum botosaneanui Oyewo & Saether 2008
Thaumalea botosaneanui Vaillant, 1969
Trichomyia botosaneanui Wagner 1993

OTHER HEXAPODA

Anommatelemis botosaneanui Spangier, 1981
 (Coleoptera)
Parajapyx botosaneanui Pagés, 1975 (Diplura)

ARACHNIDA

Metakimula botosaneanui (Avram, 1973)
 (Opiliones)
Rhodacaropsis botosaneanui (Petrova & Beron, 1973)
 (Acari)
Tubomixdea botosaneanui (Cook, 1981) (Acari)

COPEPODA

Allocyclops botosaneanui Plesa, 1981
Elaphoidella botosaneanui (Petkovski, 1973)
Metacyclops botosaneanui Pesce, 1985
Nitocrella botosaneanui Petkovski, 1973
Parapseudoleptomesochra botosaneanui
 (Petkovski, 1973)

CUMACEA

Cumella botosaneanui Petrescu & Iliffe, 2009

ISOPODA

Amakusanthura botosaneanui Negoescu, 2004
Scleropactes botosaneanui Vandel, 1973

OSTRACODA

Pusella botosaneanui (Danielopol, 1973)
Trapezicandona botosaneanui (Danielopol, 1982)

TANAIDACEA

Gollumudes botosaneanui Gutu, 2001
Paradoxapseudes botosaneanui (Gutu, 2001)

OTHER INVERTEBRATES

Dendrocoelum botosaneanui Papa, 1965
 (Turbellaria)
Paracyatholaimus botosaneanui Andrassy, 1973
 (Nematoda)
Typosyllis botosaneanui Hartmann-Schroder, 1973
 (Polichaeta)

Addenda to Nimmo (2012)

Nimmo, Andrew P. 2012
 Review of *Desmona* Denning, Monophylax Nimmo, and
Psychoglypha Ross, with descriptions of 12 new species (Insecta,
 Trichoptera: Limnephilidae; Limnephilinae; Chilotigmini). –
 Occ.Pap.Trich.Taxon. 2:1-73.

Due to circumstances beyond explanation a certain amount of distribution data
 was omitted from the above paper. Unfortunately these omissions relate to type material
 of three of the new species.

I herewith present the missing information. Additions of information are
 underlined.

Desmona denningi Nimmo, 2012.

Distribution. (fig. 204+) **CALIFORNIA:** Markwood Creek, 2 mi. SE/Shaver Lk, Fresno
 County. R.F.Gill. 18/10/81. (HOLOTYPE m.) [Burdick]; ditto. R.F.Gill. 17/10/81.
 (ALLOTYPE f & PARATYPE m) [Burdick]; ditto. R.F.Gill. 9/11/81. (PARATYPE m)
 [Burdick].

Psychoglypha maderi Nimmo, 2012.

Distribution. (fig. 206■) **CALIFORNIA:** Emerald Lk. 5 mi. E/Lodgepole. Tulare Co.,
 9,250'. on snow. R.F.Gill. 1/11/81 (PARATYPE m) [Burdick]. **UTAH:** City Ck. Salt
 Lake Co., R.H.Nave. 1/11/59 (PARATYPE m) [BYU]; Stream below Bantik Lk. Uinta
 Mtns. Summit Co., R.W.Baumann. 15/10/77 (PARATYPE m) [BYU].

Psychoglypha burdicki Nimmo, 2012.

Distribution. (fig. 211▲) **CALIFORNIA:** Hat Ck. Big Spring. Shasta Co., Baumann,
 Stark, Nelson, & Wells. 26/4/87 (PARATYPES m & f) [BYU]; Bear Valley Lk. Pt Reyes
 Nat. Pk. Marin Co (seashore). Baumann, Stark, Nelson, & Wells. 22/4/87 (PARATYPES
 m & f) [BYU].

CORRIGENDA

On p. 39 I incorrectly attributed Beethoven's 9th as based on a poem by Goethe.
 On reaching Helsinki, after the 14th Symposium, I was listening to the 9th, and read the
 notes accompanying the CD, and discovered to my dismay that it was a poem by Schiller!
 Hans pointed this out later, after I'd sent him a copy of the paper.

Some may have noticed that the title of the paper differs, by three words, between
 the cover and the beginning of the paper. The title at the beginning is the correct version.
 Dave Ruiter suggested that 'the three genera' be omitted, which I did, but forgot that the
 cover, which had already been printed, bore the original

Disposition of the material listed in the paper has changed somewhat. At a recent
 Joint Annual meeting of the Entomological Societies of Canada and Alberta I met Dave
 Kavanaugh of the California Academy of Science. He said to send all the material on
 loan from Don Burdick, which was mostly if not all Don Denning's, direct to the
 CalAcad, which was to be its ultimate destination anyway. Burdick was simply curating
 it for that purpose.

Andrew P. Nimmo
 Edmonton, Canada
 Dec. 2012



ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

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