

Bulgarian Zoologists in Africa – results of the research and material remaining for study. Supplement to the article about Indomalayan Region (2013–2016)

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Abstract. Practically the participation of Bulgarian Zoologists in the exploration of African fauna started in 1962, and since 1976 many new collecting activities took place in several African countries. Bulgarian authors are identifying also African material sent by other museums. Most of the material, collected by us in Africa, is still unidentified.

Key words: Bulgarians, Zoology, Africa

Before World War II African countries have been visited by Dr I. Buresch (1927, Egypt and Sudan) and Nenko Radev in Ethiopia (1935). Nikola Deliradev spent 55 years in Ethiopia, hunting different animals. Part of the trophies have been brought to Bulgaria (the museums of Sofia and Panagyurishte).

Practically the participation of Bulgarian Zoologists in the exploration of African fauna started in 1962 – 1963 with the work of V. Golemansky in Guinea. Large collections (most of them still unidentified) have been made by me during my three years of work in Nigeria (1976 – 1979), my travels in DR Congo, Equatorial Guinea, Canary Islands, Senegal, Kenya, Uganda, Tanzania, Ethiopia, Zimbabwe, Zambia, Botswana, Egypt, Sudan, Libya, Cameroon, Morocco, the expedition of NMNH – Sofia in Mozambique (1983, with participation of V. Beshkov, M. Josifov, N. Spassov and V. Zlatarski). High mountains and caves have been also explored (P. Beron, V. Beshkov, B. Petrov and others). P. Stoev visited Tunisia in 2008. He and B. Guéorguiev published descriptions of new cave animals.

In the present paper is followed the development of Bulgarian zoological studies in Africa and are enumerated papers, written on the basis of material collected by Bulgarians or sent from foreign museums. The aim of this publication is to put together the results obtained so far and to announce the material still awaiting identification. Bulgarian contributions

are modest compared to what has been done by the Zoologists from the former colonial countries, but are still more than the contributions from the other Balkan countries.

The chronology of the field work done in Africa by Bulgarian Zoologists is as follows:

- 1927. Iv. Buresch in Egypt and Sudan.
- 1935. N. Radev and N. Deliradev in Ethiopia.
- 1962 – 1963 and 1973. V. Golemansky in Guinea.
- 1976 – 1979. P. Beron in Nigeria, Togo, Cameroon, DR Congo, Equatorial Guinea, Senegal
- 1977. P. Beron in the Canary Islands.
- 1983. P. Beron, V. Beshkov, M. Josifov, N. Spassov, V. Zlatarski in Mozambique.
- 1983. P. Beron and V. Beshkov in Zimbabwe, Zambia, Tanzania (incl. Zanzibar).
- 1993. P. Beron and V. Beshkov in Kenya and Uganda.
- 1996. P. Beron in Libya.
- 1999. P. Beron in Libya.
- 2000. P. Beron in Sudan.
- 2008. P. Stoev in Tunisia.
- 2009. B. Georgiev in Gabon
- 2012. P. Beron in Morocco. In June 2012 was collected material in several areas, from Tangiers (sea level) to the top of North Africa (Jebel Tubkal, 4167 m), as well as in the cave of Friouato.
- 2013. Boyko Georgiev in Madagascar
- 2016. P. Beron in Kenya

2017. M. Langourov in Morocco.

Terrain work in different countries

Canary Islands. P. Beron

Morocco. P. Beron, T. Lyubomirov, M. Langourov, D. Chobanov

Guinea. V. Golemansky

Nigeria. P. Beron

Cameroon. P. Beron

Equatorial Guinea. P. Beron

Togo. P. Beron

DR Congo. P. Beron

Zambia. P. Beron, V. Beshkov

Zimbabwe. P. Beron, V. Beshkov

Tanzania. P. Beron, V. Beshkov

Uganda. P. Beron, V. Beshkov

Kenya. P. Beron, V. Beshkov, V. Sakalyan

Mozambique. P. Beron, V. Beshkov, M. Josifov, N. Spassov, V. Zlatarski

Madagascar. Boyko Georgiev

Egypt. P. Beron

Sudan. P. Beron

Libya. P. Beron

Tunisia. P. Stoev, S. Beshkov

Ethiopia. N. Radev, N. Deliradev, B. Georgiev

Senegal. P. Beron

Malawi. A. Hubancheva

The groups studied and the state of the remaining material:

Protozoa

Rhizopoda

New taxa:

(GOLEMANSKI, 1979)

Cestoda

New taxa:

(Dimitrova, Mariaux & Georgiev, 2013)

Pseudangularia gonzalezi Dimitrova, Mariaux et Georgiev, 2013

Gibsonilepis swifti Dimitrova, Mariaux et Georgiev, 2013

Crustacea

Amphipoda. The material is not yet identified.

Isopoda Oniscidea. Most of the large collections of Oniscidea, collected by P. Beron, are still not identified. A series of Isopods has been sent to the Italian colleague in Florence (S. Taiti, F. Ferrara and others), who published papers with data from Africa (TAITI & FERRARA, 1981, and others). They described new species from Nigeria (the types are in Sofia). Part of the material is still in Florence, another part remains in Sofia.

New taxa:

Microcercus beroni Taiti et Ferrara (Eubelidae) – Nigeria (TAITI & FERRARA, 1981)

Arachnida

Pseudoscorpiones. Many Pseudoscorpions from various countries still stay with us unidentified.

Opiliones. Our collection of Opilions from Africa is still to be identified.

Amblypygi. In our collection there are many specimens (not yet identified) from Africa (Tanzania)

Schizomida. In the collection of NMNH we have specimens (not yet identified) from Nigeria,

Scorpiones. The Scorpions, collected by us in Africa (P. B.) have been identified by F. Kovařík (Prague) and are published by KOVAŘÍK & BERON (2015). They belong to 15 species from Egypt, Algeria, Morocco, Tunisia, Tanzania, Zambia, Mozambique, Nigeria, and Zimbabwe.

Araneae. The bulk of the spider collection was sent to Prof. P.M. Brignoli in Italy. Unfortunately, he died before finishing the identification of the spiders sent by me from many countries. The collection is still in Italy. Meanwhile, in all visited countries have been collected new materials, most of them still in Sofia.

DELTSHEV (2015) identified the spiders collected by P. Beron in Moroccan Atlas up to the summit of Djebel Tubkal (2167 m). DIMITROV & RIBERA (2005b) published from Morocco the new species *Pholcus vachoni*, DIMITROV & RIBERA (2005b) described from the Canary Islands the new genus *Ossinissa* (Pholcidae).

New taxa

Pholcus vachoni Dimitrov et Ribera (Pholcidae) – Morocco (DIMITROV & RIBERA, 2005b)

Ossinissa Dimitrov et Ribera (Pholcidae) – Canary Islands (DIMITROV & RIBERA, 2005a)

Acari. As this is group of my particular interest, many mites have been collected, but the bulk of the collection is still to be identified. Only articles on Erythraeoidea have been or will be published shortly (Beron, in prep.). The members of Trombidiidae s. lato have been sent for identification to Dr J. Mağol. Several new species of Trombiculidae from Egypt, Tunisia, Liberia, Gabon, Tanzania, DR Congo, Namibia, Mozambique, sent by foreign museums, have been identified and described by KOLEBINOVA (1980 b, c, 1981a, 1984a) and KOLEBINOVA & VERCAMMEN-GRANDJEAN (1978).

New taxa

Caeculisoma haussa Beron (Acariformes, Erythraeidae) – Nigeria (BERON, 2002)

Cecidopus nigeriae Beron (Acariformes, Erythraeidae) – Nigeria (BERON, 2002)

Beronium coiffaiti (Beron)(described as *Hoplothrombium coiffaiti*) (Acariformes, Trombidiidae) – Morocco (BERON, 1973)

Herpetacarus (Lukoschuskaia) makokoui Kolebinova (Trombiculidae) – Gabon (KOLEBINOVA & VERCAMMEN-GRANDJEAN, 1980)(new subgenus)

Neotrombicula (Neotrombiculoides) elegantissima Kolebinova (Trombiculidae) – Tanzania (KOLEBINOVA, 1981)

Gerbillicula deserta Kolebinova (Trombiculidae) (new genus) – Tunisia (KOLEBINOVA, 1984a)

Afrotrombicula [new genus] (*A.*) *gabonica* Kolebinova & Vercammen-Grandjean (Trombiculidae) – Gabon (KOLEBINOVA, 1981)

Afrotrombicula (A.) vanbreei Kolebinova & Vercammen-Grandjean (Trombiculidae) – Gabon (KOLEBINOVA & VERCAMMEN-GRANDJEAN, 1981)

Leptotrombidium (Ericotrombidium) spatzi Kolebinova (Trombiculidae) – Tunisia (KOLEBINOVA, 1980b)

Neotrombicula (Tauffliebicula, new subgenus) lophuromyia Kolebinova et Vercammen-Grandjean (Trombiculidae) – Liberia (KOLEBINOVA & VERCAMMEN-GRANDJEAN, 1978).

Neotrombicula (Tauffliebicula) lophuromyia Kolebinova et Vercammen-Grandjean (Trombiculidae) – DR Congo (KOLEBINOVA & VERCAMMEN-GRANDJEAN, 1978).

Walchia (Kepkaia)[new subgenus]

Schoengastiella (Radfordiella)[new subgenus]

Schoengastiella (Elasmoproctiella)[new subgenus]

Schoengastiella (Dureniella)[new subgenus] *ocellata* Kolebinova et Vercammen-Grandjean (Trombiculidae) – Liberia (KOLEBINOVA & VERCAMMEN-GRANDJEAN, 1978)

Schoengastiella (Dureniella) ocellata Kolebinova et Vercammen-Grandjean (Trombiculidae) – Liberia (KOLEBINOVA & VERCAMMEN-GRANDJEAN, 1978).

Schoengastiella (Dureniella) subcaeca Kolebinova et Vercammen-Grandjean (Trombiculidae) – Liberia (KOLEBINOVA & VERCAMMEN-GRANDJEAN, 1978)

Gahrliopia (Gateria) megaspis Kolebinova et Vercammen-Grandjean (Trombiculidae) – Liberia (KOLEBINOVA & VERCAMMEN-GRANDJEAN, 1978)

Gahrliopia (Gateria) liberiensis Kolebinova et Vercammen-Grandjean (Trombiculidae) – Liberia (KOLEBINOVA & VERCAMMEN-GRANDJEAN, 1978)

Gahrliopia (Ozoseitiella)[new subgenus]

Schoengastia (Schoengastiella) teras Kolebinova (Trombiculidae) – Gabon (KOLEBINOVA, 1984b)

Schoengastia (Schoengastia) mozambica Kolebinova (Trombiculidae) – Mozambique (KOLEBINOVA, 1984b)

Schoengastia (Schoengastia) erinacei Kolebinova (Trombiculidae) – “Centrefrique” (KOLEBINOVA, 1984b)

Euschoengastia (Brunehaldia) aegypti Vercammen-Grandjean et Kolebinova (Trombiculidae) – Egypt (VERCAMMEN-GRANDJEAN & KOLEBINOVA, 1966)

Myriapoda.

Symphyla. Collections not yet identified.

Diplopoda.

Large collection of Diplopoda has been brought to the NMNH in Sofia by P. Beron. So far one article by MAURIÈS & HEYMER (1996) described several new *Sphaeroparia* (Diplopoda) from Ruwenzori (Uganda), the highest found Diplopoda in Africa. Another article (MAURIÈS, 1989) announced one new species collected by me in Nigeria. Other materials from Africa still stay in Sofia unidentified, including the material brought by P. Beron from Kenya in 2016.

P. Stoev contributed to the collecting of many Diplopoda from Tunisia and described new species from Algeria, Libya and Tunisia (GOLOVATCH et al., 2009, AKKARI et al., 2013, AKKARI, STOEV, ENGHOFF & NOUIRA, 2009). The last article contains also faunistic data on Diplopoda from Algeria and Morocco.

New taxa:

Glomeris troglodyliana Golovatch, Mauriès, Akkari, Stoev et Geoffroy (Glomerida, Glomeridae) – cave in Algeria (GOLOVATCH, MAURIÈS, AKKARI, STOEV & GEOFFROY, 2009)

G. monostriata Golovatch, Mauriès, Akkari, Stoev et Geoffroy (Glomerida, Glomeridae) – cave in Libya (GOLOVATCH, MAURIÈS, AKKARI, STOEV & GEOFFROY, 2009)

G. colorata Golovatch, Mauriès, Akkari, Stoev et Geoffroy (Glomerida, Glomeridae) – Tunisia (GOLOVATCH, MAURIÈS, AKKARI, STOEV & GEOFFROY, 2009)

Ommatoiulus shambiensis Akkari, Koon-Bong Cheung, Enghoff & Stoev (Julida, Julidae) – Tunisia (AKKARI, KOON-BONG CHEUNG, ENGHOFF & STOEV, 2013)

Ommatoiulus crassinigripes Akkari, Koon-Bong Cheung, Enghoff & Stoev (Julida, Julidae) – Tunisia (AKKARI, KOON-BONG CHEUNG, ENGHOFF & STOEV, 2013)

Ommatoiulus kefi Akkari, Koon-Bong Cheung, Enghoff & Stoev (Julida, Julidae) – Tunisia (AKKARI, KOON-BONG CHEUNG, ENGHOFF & STOEV, 2013)

Ommatoiulus khroumiriensis Akkari, Koon-Bong Cheung, Enghoff & Stoev (Julida, Julidae) – Tunisia (AKKARI, KOON-BONG CHEUNG, ENGHOFF & STOEV, 2013)

Ommatoiulus xerophilus Akkari, Koon-Bong Cheung, Enghoff & Stoev (Julida, Julidae) – Tunisia

(AKKARI, KOON-BONG CHEUNG, ENGHOFF & STOEV, 2013)

Ommatoiulus xenos Akkari, Koon-Bong Cheung, Enghoff & Stoev (Julida, Julidae) – Tunisia (AKKARI, KOON-BONG CHEUNG, ENGHOFF & STOEV, 2013)

Ommatoiulus zaghouani Akkari, Koon-Bong Cheung, Enghoff & Stoev (Julida, Julidae) – Tunisia (AKKARI, KOON-BONG CHEUNG, ENGHOFF & STOEV, 2013)

Sphaeroparia petarberoni Mauriès et Heymer (Polydesmida, Trichopolydesmidae) – Uganda (MAURIÈS & HEYMER, 1996)

S. beshkovi Mauriès et Heymer (Polydesmida, Trichopolydesmidae) – Uganda (MAURIÈS & HEYMER, 1996)

Stemmiulus (Diopsiulus) beroni Mauriès (Stemmiulida, Stemmiulidae) – Nigeria (MAURIÈS, 1989)

Chilopoda. The large collections of Chilopoda have been sent to Dr Z. Matic in Cluj, stayed longtime with him and were returned (partly damaged) to NMNH Sofia. The material, collected later, is under the care of Dr P. Stoev. Many Scolopendrids, collected by us in Mozambique, Zambia, Zimbabwe, Nigeria, Tanzania, and DR Congo have been published by LEWIS (2001). Some others have been collected by P. Beron in Morocco (2012).

P. Stoev contributed to the collecting of many Chilopoda from Tunisia and to a publications on them (AKKARI, STOEV & LEWIS, 2008; STOEV et al., 2010).

New taxa

Eupolybothrus kahfi Stoev et Akkari, 2010 – Tunisia (STOEV et al., 2010)

Insecta s.l.

Collembola – still under study.

Diplura. Some Campodeidae have been sent to B. Condé and a few found place in one article (CONDÉ, 1989). Many Japygidae (some of them sent to J. Pagés) await identification.

Thysanura. Non identified.

Blattodea, Mantodea. In the Museum collection there is some material from Nigeria and other countries, still unidentified. The same is the fate of the **Neuroptera** (Myrmeleontidae) and some other Insect groups.

Embiidina. The material preserved in NMNH Sofia (16 sp. identified by E.S. Ross and published by BERON, 2015) contains species from Nigeria, Tunisia, Cameroon, Zimbabwe, Mozambique, Libya, Senegal, and Tanzania, collected by P. Beron or donated.

Dermaptera. Many earwigs have been collected but only one paper by BRINDLE (1982) has been

published. The material (partly seen by Brindle) is in Sofia. The earwigs identified by Brindle (30 sp.) have been published by BERON (2015).

New taxa:

Diplatys beroni Brindle (Diplatyidae) – Nigeria (BRINDLE, 1982)

Coleoptera. Many beetles from different families have been collected, but only part of them (Carabidae, Dytiscidae, Haliplidae, Chrysomelidae) have been published by V. Guéorguiev, B. Guéorguiev, V. Tomov and B. Gruev. Other material (Pselaphinae, etc.) is under study by R. Bekchiev and other colleagues. Collection of Staphylinidae has been sent to V. Assing.

New taxa

Haliplus maculipennis capensis V. Guéorguiev (Haliplidae) – South Africa (V. GUÉORGUIEV, 1967)

Hyphidrus bertrandi V. Guéorguiev (Dytiscidae) – Guinea (V. GUÉORGUIEV, 1965)

H. legrosi V. Guéorguiev (Dytiscidae) – Guinea (V. GUÉORGUIEV, 1965)

H. omercooperae V. Guéorguiev (Dytiscidae) – Guinea (V. GUÉORGUIEV, 1965)

H. guignoti V. Guéorguiev (Dytiscidae) – Guinea (V. GUÉORGUIEV, 1965)

Laemostenus (Sphodroides) tiouirii B. Guéorguiev (Carabidae) – Tunisia (B. GUÉORGUIEV, 2012)

Antipa urikkana Tomov, 1983 (Chrysomelidae) – Morocco (TOMOV, 1983)

Lachnaia (Barathraea) padillai Tomov, 1982 – Tunisia (TOMOV, 1982)

Heteroptera

During our expedition in Mozambique (1983) have been collected some Heteroptera, but only one new genus and species have been described by JOSIFOV & ŠTUSAK (1987). Another species has been described in the same paper from Libya, Algeria, Nigeria, Chad, and Ivory Coast.

New taxa:

Gamsoacantha beroni Josifov et Štusak (Berytidae) – Mozambique (JOSIFOV & ŠTUSAK, 1987, new genus)

Gamsoacantha pumilio Josifov et Stusak (Berytidae) – Nigeria, Chad and Ivory Coast (JOSIFOV & ŠTUSAK, 1987)

Phytocoris (Ribautomiris) dichrooscytoides Josifov (Miridae) – Libya (JOSIFOV, 1974).

Phytocoris (Ribautomiris) pseudoscytulus Josifov (Miridae) – Algeria (JOSIFOV, 1974).

Hymenoptera

Material from Ethiopia, collected by N. Radev and identified by T. LJUBOMIROV (2006).

Trichoptera. The only collection partly identified, but not published, was the one from Sudan (Jebel Marra). Kumanski (pers. comm.) started describing some new species, but his untimely death was the end of this interesting study. The collection is in Sofia, together with some other African material (Nigeria, etc.).

Diptera. The material collected is still in Sofia, not identified. Papers by Bechev (1994a – Tanzania, 1994b – Madagascar).

Mammalia

Chiroptera. Some material is in Sofia

Pholidota. Spassov (1990). Published data about *Manis temmincki* from North Mozambique.

Carnivora. Collection from Mozambique under study.

Hyracoidea. SPASSOV (1988). Published data about *Procavia* from Mozambique.

Exploration of high mountains

I had the chance to visit several of the highest mountains in Africa and to collect zoological material:

Kilimandjaro (to the top, 5895 m) – 1983 (together with V. Beshkov)

Ruwenzori (to the top, 5109 m) – 1995 (together with V. Beshkov)

Elgon (up to 2000 m) – 1995 (together with V. Beshkov)

Jebel Tubkal (to the top, 4167 m) – 2012

Mt. Cameroon (to the top, 4040 m) – 1977

Mt. Kenya (to 4985 m) – 2016

In 2009 Boyan Petrov also visited Kilimanjaro, Ruwenzori and Mt. Kenya and collected zoological material.

Most of the animals, collected by us, stay unidentified. MAURIÈS & HEYMER (1996) described from Ruwenzori the highest Diplopoda, found in Africa. I wrote a review of the high altitude Arachnida, Isopoda and Myriapoda in Africa (BERON, 2000a) and they were analyzed in details in my monograph on these animals in the Old World (BERON, 2008) and with its supplement (BERON, 2016).

Exploration of caves

Bulgarian cavers have been in the deep pot holes of Algeria (1989), but no fauna was collected. The only zoological collectings in African caves have been the following:

1977 – P. Beron collected material in the cave Pannini in Nigeria.

1983 – P. Beron and V. Beshkov visited the well known Kulumuzi caves in Tanzania.

1995 – P. Beron and V. Beshkov explored some caves in Kenya.

1989 – P. Beron explored Sinoya Caves in Zimbabwe.

2008 – P. Stoev collected cave fauna in Tunisia and published articles.

2012 – P. Beron collected cave fauna in Friouto (Morocco).

New taxa, discovered with Bulgarian participation, for:

Morocco. BERON (1973, 2017), TOMOV (1983)

Tunisia. KOLEBINOVA (1980c), B. GUÉORGUIEV (2012), TOMOV (1982), STOEV (2009), STOEV et al. (2010), AKKARI, ENGHOF, STOEV & MAURIÈS (2010)

Algeria. JOSIFOV (1974), STOEV (2009)

Libya. JOSIFOV (1974), STOEV (2009)

Egypt. VERCAMMEN-GRANDJEAN & KOLEBINOVA (1966)

Guinea. V. GUEORGUIEV (1975)

Mozambique. KOLEBINOVA (1984b), JOSIFOV & ŠTUSAK (1987), BERON (1986, in prep.), SPASSOV (1988, 1990)

Nigeria. TAITI & FERRARA (1981), MAURIÈS (1989), BRINDLE (1982), BERON (2000b)

Kenya. KOLEBINOVA & VERCAMMEN-GRANDJEAN (1980); BERON (2016)

Uganda. MAURIÈS & HEYMER (1996)

Zambia. BERON (in prep.)

Tanzania. KOLEBINOVA (1981a), BECHEV (1994a)

Madagascar. BECHEV (1994b)

Gabon. KOLEBINOVA & VERCAMMEN-GRANDJEAN (1980, 1981); KOLEBINOVA (1984b)

South Africa. V. GUÉORGUIEV (1967)

Somalia. BERON (in prep.)

Liberia. KOLEBINOVA & VERCAMMEN-GRANDJEAN (1978)

DR Congo. KOLEBINOVA & VERCAMMEN-GRANDJEAN (1978)

Many other taxa were new for the countries explored by Bulgarians.

Bulgarian Zoologists in South Asia and Melanesia – results of the research and material remaining for study – I supplement (2013 – 2016)

After publishing the review of the activities of Bulgarian zoologists in South Asia and Melanesia (BERON, 2013), occurred some more terrain works, new publications appeared and a few have been omitted. Here we add these data.

Terrain work in different countries

China. P. Stoev, B. Petrov

Laos. P. Beron

Indonesia. P. Stoev, L. Penev

Philippines. P. Stoev, L. Penev

Cambodia. P. Stoev, L. Penev

Nepal. B. Petrov

Thailand. P. Stoev

Malaysia. B. Georgiev

Vietnam. B. Georgiev, V. Golemansky

The groups studied and the state of the remaining material:

Rhizopoda

Testacea

Cryptodiffugia brevicolla Golemansky – Vietnam (GOLEMANSKY, 1979)

Crustacea

Harpacticoida

APOSTOLOV (2007) from Vietnam.

Arachnida

Scorpiões

Among the list of 61 species of Scorpiões, collected mostly by P. Beron and preserved in the National Museum of Natural History in Sofia (KOVAŘIK & BERON, 2015) are species from Indonesia, Malaysia, Nepal, Thailand, and Papua New Guinea (additional material from Laos).

Araneae. Many new spiders have been collected and are under study.

Acari

Overlooked were the publications of KOLEBINOVA (1980, 1984) on Trombiculidae from the Philippines

New taxa

Leptotrombidium (L.) imphalum philippinense Kolebinova (Trombiculidae) – Philippines (KOLEBINOVA, 1980)

Leptotrombidium (L.) subobscurum Kolebinova (Trombiculidae) – Philippines (KOLEBINOVA, 1980)

Walchiella philippinensis Kolebinova (Trombiculidae) – Philippines (KOLEBINOVA, 1984)

Walchiella oudemansi katangladensis Kolebinova (Trombiculidae) – Philippines (KOLEBINOVA, 1984)

Myriapoda.

Chilopoda.

New paper (SHILEYKO & STOEV, 2016) includes data on Scolopendromorphs collected by P. Beron in New Guinea and New Britain.

Diplopoda.

New papers (GOLOVATCH, 2014, 2016, GOLOVATCH et al., 2012, 2013, 2014, GOLOVATCH & STOEV, 2013, 2014a, 2014b) published papers based on my collections from China, Burma, Laos, Nepal, Papua New Guinea and Malaysia. From the visit of P. Stoev in a cave in Luzon (Philippines) has been described a new species by GOLOVATCH & STOEV (2013). STOEV & ENGHOFF (2011) published descriptions of four new species from Laos and Vietnam.

New taxa:

Trachyjulus beroni Golovatch, Geoffroy, Mauries et VandenSpiegel (Spirostrepsida, Cambalopsidae) – Malaysia (GOLOVATCH, GEOFFROY, MAURIES & VANDENSPIEGEL, 2012)

Eustrongylosoma penevi Golovatch et Stoev (Paradoxosomatidae) – Luzon, Philippines (GOLOVATCH & STOEV, 2013)

Eustrongylosoma curtipes Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2011)

Eustrongylosoma liklik Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2011)

Eustrongylosoma maculatum Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2011)

Eustrongylosoma masalai Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2011)

Eustrongylosoma mirabile Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2011)

Eustrongylosoma pallidum GOLOVATCH ET STOEV (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2011)

Eustrongylosoma papua Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2011)

Eustrongylosoma tifalmin Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2011)

Silvattia perplexa Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2014)

Silvattia petarberoni Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2014)

Silvattia jeekeli Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2014)

Dendrogonopus beroni Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2014a)

Opisotretus beroni Golovatch, Geoffroy, Stoev et Vanden Spiegel (Opisotretidae) – Papua New Guinea (GOLOVATCH, GEOFFROY, STOEV & VANDEN SPIEGEL, 2013)

Nothrosoma crassipes Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2014a)

Nothrosoma mediapes Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2014a)

Nothrosoma longipes Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2014a)

Caloma pallipes Golovatch et Stoev (Paradoxosomatidae) – Papua New Guinea (GOLOVATCH & STOEV, 2014a)

Delarthrum beroni Golovatch (Paradoxosomatidae) – Nepal (GOLOVATCH, 2014)

Delarthrum typicum Golovatch (Paradoxosomatidae) – Nepal (GOLOVATCH, 2014)

Delarthrum curtum Golovatch (Paradoxosomatidae) – Nepal (GOLOVATCH, 2014)

Delarthrum tenuitergale Golovatch (Paradoxosomatidae) – Nepal (GOLOVATCH, 2014)

Delarthrum andreevi Golovatch (Paradoxosomatidae) – Nepal (GOLOVATCH, 2014)

Delarthrum heterotergale Golovatch (Paradoxosomatidae) – Nepal (GOLOVATCH, 2014)

Delarthrum setosum Golovatch (Paradoxosomatidae) – Nepal (GOLOVATCH, 2014)

Beronodesmus pallidus Golovatch (Paradoxosomatidae) – Nepal (GOLOVATCH, 2014)

[new genus]

Sinocallipus deharvengi Stoev et Enghoff (Sinocallipodidae) – Vietnam (STOEV & ENGHOFF, 2011)

Sinocallipus jaegeri Stoev et Enghoff (Sinocallipodidae) – Laos (STOEV & ENGHOFF, 2011)

Sinocallipus steineri Stoev et Enghoff (Sinocallipodidae) – Laos (STOEV & ENGHOFF, 2011)

Sinocallipus catba Stoev et Enghoff (Sinocallipodidae) – Vietnam (STOEV & ENGHOFF, 2011)

Tylopus beroni Golovatch, VandenSpiegel et Semenyuk (Paradoxosomatidae) – Laos (GOLOVATCH, VANDENSPIEGEL & SEMENYUK, 2016)

Desmoxites simplex Golovatch, VandenSpiegel et Semenyuk (Paradoxosomatidae) – Laos (GOLOVATCH, VANDENSPIEGEL & SEMENYUK, 2016)

Diplura

Lepidocampa (L.) weberi nepalensis Condé (Campodeidae) – Nepal (CONDÉ, 1993)

Orthoptera

Large collection of cave Orthoptera from China, Vietnam, Papua New Guinea and Indonesia have been sent to Dr Gorochoy in Sanct Peterburg. Results are expected. Meanwhile new Orthoptera have been collected in caves in Laos by P. Beron.

Reference about Africa

AKKARI N., STOEV P., LEWIS J. 2008. The scolopendromorph centipedes (Chilopoda, Scolopendromorpha) of Tunisia: taxonomy, distribution and habitats. – ZooKeys, 3: 77 – 102.

AKKARI N., ENGHOFF H., STOEV P., MAURIÈS J.-P. 2010. On the identity of *Basigona lucasii* Silvestri, 1896, a poorly known millipede

Embiidina. The material (identified by Ross and published by BERON, 2015) contains species from India and Papua New Guinea, collected by P. Beron.

Dermaptera. The material (partly seen by Brindle) is in Sofia. The earwigs identified by Brindle (30 sp.) have been published by BERON (2015b)[Nepal, New Ireland, New Britain, Sri Lanka, Burma].

Coleoptera

Omitted were the papers of GUÉORGUIEV V. B. (1968, 1972). His son B.V. Guéorguiev is publishing actively on Coleoptera from China, Indonesia and Papua New Guinea. R. Bekchiev contributed to the description of a new species of Pselaphinae from a cave in Nepal, collected by P. Beron.

New taxa:

Lesticus beroni Dubault, Lassalle et Roux (Carabidae) – Indonesia, Lombok (DUBAULT, LASSALLE & ROUX, 2012)

Agabus (Dichonectes) freudei V. Guéorguiev (Dytiscidae) – Nepal (V. GUÉORGUIEV, 1975)

Lacconectus freyi V. Guéorguiev (Dytiscidae) – South India (V. GUÉORGUIEV, 1968)

Stictogabus nepalensis V. Guéorguiev (Dytiscidae) – Nepal (V. GUÉORGUIEV, 1968)

Eustra petrovi B.V. Guéorguiev (Carabidae) – South China (Yunnan)(B.V. GUÉORGUIEV, 2014)

Metabacetus willi B.V. Guéorguiev (Carabidae) – Java (Indonesia)(B.V. GUÉORGUIEV, 2013)

Pseudophanias spinitarsis Yin, Coulon et Bekchiev (Staphylinidae, Pselaphinae) – Nepal (YIN, COULON & BEKCHIEV, 2015)

Exploration of caves

P. Stoev visited a cave in Luzon (Philippines) in 2012 and four caves in North China in 20 (together with Hr. Deltshev). Many new species were contributed with Bulgarian participation from S. China, Laos, Vietnam, Malaysia, Philippines, Papua New Guinea and Nepal.

P. Beron visited 12 caves in Laos and collected biological material.

Exploration of high mountains

Visits to Himalaya and Karakorum by B. Petrov brought back extensive collections which are being identified. GOLOVATCH (2014) started identifying our collection of Diplopoda from the Himalaya.

from Tunisia, with notes on the North African Chordeumatida (Diplopoda: Chordeumatida: Chamaesomatidae). – Zootaxa, 2427: 64 – 68.

AKKARI N., KOON-BONG CHEUNG D., ENGHOFF H., STOEV P. 2013. Revolving SEM images visualising 3D taxonomic characters:

- application to six species of the millipede genus *Ommatoiulus* Latzel, 1884, with description of seven new species and an interactive key to the Tunisian members of the genus (Diplopoda, Julida, Julidae). – *ZooKeys*, **328**: 5–45.
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Български зоолози в Африка – резултати от проучванията и състояние на оставащия материал

Петър БЕРОН

(Резюме)

Български зоолози са посещавали африкански страни и преди Втората световна война (Египет, Етиопия), но научният им принос започва с работата на В. Големански в Гвинея през 1962-1963 г. П. Берон прекарва три години (1976-1979) в Нигерия и участва в много други пътувания из Африка. През 1983 г. Националният природонаучен музей при БАН организира самостоятелна експедиция в Мозамбик. Теренна работа е извършена от български зоолози в Египет, Судан, Тунис, Алжир, Мароко, Канарските острови, Гвинея, Нигерия, Того, ДР Конго, Камерун, Мозамбик, Кения, Танзания, Уганда, Етиопия, Габон, Екваториална Гвинея, Зимбабве, Замбия, Либия.

Български зоолози са определяли и зоологически материали от Африка, изпратени им от различни музеи. Нови таксони са описани от българи или с българско участие от Нигерия, Мозамбик, Тунис, Мароко, Алжир, Либия, Египет, Габон, Танзания, Замбия, Уганда, Замбия, Кения, Канарските острови, Намибия, Много от събраните материали остават все още неопределени.

Българските зоолози в Южна Азия и Меланезия – резултати от проучванията и състояние на оставащия материал – Първо допълнение

След първия преглед на приноса на българските зоолози за изследването на фауната на Южна Азия и Меланезия (BERON, 2013) бяха публикувани нови данни от Р. Бекчиев, С. Головач, П. Стоев, Б. Георгиев и други автори, а се оказа, че са пропуснати публикации на А. Апостолов, В. Йорданова, В. Георгиев и М. Колебинова. В настоящото допълнение се третира фауната на Непал, Виетнам, Филипините, Индонезия, Малайзия, Папуа Нова Гвинея, Бирма, Лаос, южен Китай, Индия, нови данни от Д. Бечев, Р. Бекчиев...”