

AT THE CENTENARY OF DR B.F. BELYSHEV'S BIRTH: THE IMPACT OF HIS WORK ON SIBERIAN ODONATOLOGY

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A brief appreciation of B.F. Belyshev's (1910-1993) work is presented and its impact on the current development of odonatology in Siberia is outlined. The bibliography (1993-2010, partim) of the members of his "school" is appended.

INTRODUCTION

The history of Russian odonatology is associated with two great names: the Russian classic, Professor N.N. Bartenev (1882-1946) and Dr B.F. Belyshev (1910-1993), who marked, respectively, the first and the second half of the 20th century. Celebrating the 100th anniversary of Dr Belyshev's birth, we consider as a special privilege to have the opportunity to devote a few lines to our esteemed colleague and mentor. For his biography and bibliography, see *Odonatologica* 4(1975): 207-218, 20(1991): 1-8, *Notulae odonatologicae* 4(1993): 35-36 and *Euroasian entomological Journal* 9(2010): 223-230.

BELYSHEV'S WORK AND ITS IMPACT ON THE DEVELOPMENT OF ODONATOLOGY IN SIBERIA

Boris Feodorovich Belyshev was born in Tomsk (Siberia) on 13 December 1910. Already as a child he had a remarkable interest in natural sciences, and he was only 16 when his first technical ornithological note appeared in the local periodical, *Uragus*, followed during the subsequent years by a long line of articles and bird notes. Appreciating his scientific life, one should bear in mind the special features of his personal "life history", which were often much less favourable

than those of most of his colleagues-odonatologists, during some periods even the keeping in touch with foreign workers was a hard proposition, and much of the foreign literature was hardly available. Nevertheless, Belyshev's dedication to science was unfailing. In 1951 he published his first odonatological paper, and from that time on he devoted himself entirely to the science of odonatology.

Prior to Belyshev, the information on Siberian dragonflies was very fragmentary. He was the first to study systematically the fauna, distribution and ecology of this vast territory. His early endeavours resulted in his M.Sc. thesis ("*Odonate fauna of the Upper Ob region*", 1958) and in the voluminous D.Sc. dissertation ("*Odonate fauna of Siberia*", 1964), defended at the University of Irkutsk. The 1960s and 1970s were his creative peak. During this period he published more than 120 works, including the 3-volume monograph, "*Dragonflies of Siberia*" (1973-1974), which is to remain the key work for long time to come.

Dr Belyshev was one of the very first odonatologists who as early as 1965 rendered support to the idea of founding an international odonatological society and an international odonatological periodical. It was about this time he commenced the work with graduate students, of whom e.g. A. Yu. Haritonov defended his thesis in 1975 (fauna and ecology of the Urals) and V.V. Zaika in 1982 (fauna of the southern part of the West-Siberian plain). In consequence, a group of young odonatologists gathered around Dr Belyshev, at what is now the Institute of Animal Systematics and Ecology of the Russian Academy of Sciences in Novosibirsk, where the First National Symposium of Odonatology was convened in 1986. This resulted in publication of a collection of papers, published under the title "*Fauna and ecology of dragonflies*" (1989). This book, along with the dragonfly identification guide based on wing venation (1977) and two volumes on odonate biogeography of the world (1981, 1983), represents a kind of cumulative summary of the achievements of the Belyshev period in Russia. Almost all what was published in Russia during the subsequent years, preceding his death in 1993, was done in close collaboration with him and/or under direct influence of his work.

Appreciating the odonatological oeuvre of Dr Belyshev, one should emphasize the versatility of his contributions. His studies on the composition of odonate faunas of Siberia and the Russian Far East became a "discovery" for the world scientific community. His followers are continuing along these initiatives and by now, the fauna of about a half of this vast territory (130 species) is known reasonably well.

Unfortunately, this could not be said about our knowledge on the odonate fauna of some of the other Asian regions of Russia, which is but inadequately explored. For example, data are almost lacking on the northern area of the West-Siberian plain and on the Yenisei-Lena interfluvium. The mountains of the South, northern Siberia, the Okhotsk Sea coast and the northern part of Russian Far East were also insufficiently studied, mostly so due to the unfavourable field conditions

with which the expeditions are inevitably faced. So far the information is available only on ca 50-70% of the regional odonate faunas and the subject remains among the targets for the near future.

Dr Belyshev devoted much time to odonate biogeography of Russia and of the world, its history and evolution, and he was the first to set up an original scheme of land zones based on odonate distribution. It goes without saying, in his time he was able to use only the classical approach to these problems. The application of molecular approach in palaeobiogeography and species evolution will inevitably shed new light on some of his conclusions.

The third major achievement of Belyshev's work were his, in Russia innovative studies on odonate ecology. He worked out a basin typification as a biotope base of odonate spatial distribution, revealed regional features of their phenology, estimated threshold values of some climatic factors, has shown diurnal activities of the adults, experimented on elective feeding of dragonfly larvae, provided numerous data on odonate autecology, and paid much attention to dragonfly migrations. In Russia, he was also the first worker studying population density and other population biology features of individual species. The work in most of these fields is currently carried on and is being developed further by his students and by members of his "school". The current trends are clearly represented by the paper published by his students and followers in the recentmost issue (2010, Vol. 9, No. 2) of the *Euroasian entomological Journal*, devoted to the anniversary of his birth.

No doubt, Dr Belyshev's scientific oeuvre represents the base for all subsequent odonatological research in Siberia and generally in Russia. The Russian odonatological centre in Novosibirsk is another lasting monument of his odonatological genius, a firm guarantee for the future development of our science.

The bibliography of his "school" (1993-2010) is appended below.



Dr Boris Feodorovich Belyshev (1910-1993), portrait dated December 1992.

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