



Юрий Петрович Коршунов

In memory of YURI PETROVICH KORSHUNOV
(22.IX.1933–1.VIII.2002)

An eminent lepidopterist in world terms, scientific worker of the Zoological Museum at the Institute of Systematics and Ecology of Animals (Siberian branch of Russian Academy of Sciences), honorary member of the Russian Entomological Society YURI PETROVICH KORSHUNOV died on August 1st, 2002, in Novosibirsk.

YU. P. KORSHUNOV was born on September 22nd, 1933 in Chernorechka village near Novosibirsk. The family soon moved to Novosibirsk. His mother's ancestors were migrants from the Volga region, his father's ones were from the Samara region.

KORSHUNOV's first observations of insects began in his early childhood. The district of Novosibirsk where he lived resembled a village, there were lots of insects and other wild creatures. YURI built open-air cages for caught butterflies, observed lizards and frogs. He was very impressed having read J.-H. FABRE's "Life of insects" YURI looked for chrysalides of the Small Tortoiseshell (*Aglais urticae*) and observed the birth of butterflies. His parents presented him a small microscope. YURI read books and looked films about famous Russian and foreign travelers. Thus the way into biology was predetermined.

A small tourist group was organized in his school in 1946. KORSHUNOV traveled with his fellows and a teacher in the Altai mountains, there the group met ichthyologists from the just now organized Siberian branch of Academy of Sciences. Since that time KORSHUNOV's scientific life was tied with the Biological Institute. YURI became a member of young naturalist society "Siberia", headed by S. A. STROM, an eminent student of Siberian local lore, and visited semi-

nars conducted by zoologists K. T. YURLOV and I. N. GLOTOV. He got to know A. E. STANDEL, a local amateur lepidopterist, who made available for KORSHUNOV his great collection of butterflies and moths and gave him first lessons in lepidopterology. These regular studies mostly determined the scientific interests of KORSHUNOV. He journeyed in summers through the Altai together with tourist groups, organized by S. A. STROM and collected entomological material. In 1951 Yu. P. KORSHUNOV entered Tomsk University. There he read many special books in the very rich University library, made acquaintance with the remains of A. A. MEINHARD's butterfly collection. Besides he observed the winter life of birds, monitoring them in Tomsk Botanical gardens.

The year 1953 was tragic for KORSHUNOV. An encephalitis tick bit him, the illness wasn't diagnosed in proper time, it was long and poignant. The after-effects of illness had an influence upon the whole of the life of Yu. P. KORSHUNOV, they were a cause of his premature decease. Migrated to Charkov A. E. STANDEL invited KORSHUNOV to this town to undergo a special cure and to study at Charkov University, at the Entomological faculty headed by Prof. S. I. MEDVEDEV. KORSHUNOV moved to Charkov and kept on studying there. He journeyed with A. E. STANDEL through the Charkov region. He continued studies with STANDEL simultaneously with active ones at the Faculty. KORSHUNOV visited Moscow during the winter vacations in 1954. He got to know the famous entomologist A. A. YAKHONTOV, whom he considered as his teacher in scientific methodology. He examined the great collection by amateur lepidopterist A. V. TSVETAEV, then he went to Leningrad where he made acquaintance with B. N. SCHANWITSCH, A. A. STAKELBERG and other famous scholars, and saw the collection of butterflies and moths in the Zoological Institute, the greatest collection in the country.

In May 1954 KORSHUNOV took part in a student expedition to the Crimea, then he joined a Moscow research group headed by G. A. MAZOKHIN-PORSHNYAKOV. He moved with this expedition to Transcaucasus (one of the scopes of this expedition was to test the effectiveness of various types of lamps for attraction of nocturnal insects; KORSHUNOV kept the interest to this theme later, see KORSHUNOV, 1960b).

KORSHUNOV practically ceased his graduating thesis in May 1954, it was dedicated to the butterflies of the southern and mountainous parts of the Crimea. He visited Novosibirsk during his winter vacations in 1956 and settled to get a job at the Siberian branch of Academy (future Biological Institute). KORSHUNOV began his professional scientific life in an expedition dedicated to the research of the fauna of the future Ob reservoir territory. KORSHUNOV's main individual scope was the collecting of butterflies, he studied at the same time other groups of insects. Then he worked during 2 summer seasons at the Experimental farm of Siberian branch of Academy, near Acha village north-east of Novosibirsk and in Bugotak hills. There he found several species of butterflies and moths new for the region: *Pyrgus serratulae*, *Parapieris callidice*, *Colias heos*, *Clossiana angarensis*, *Boloria aquilonaris*, *Lampides boeticus* (occasional flight), *Cupido osiris*, *Aricia nicias*, *Macroglossum stellatarum*, *Oeneis jutta*. Quite the whole territory from the Urals as far as the Far East was in those times an enormous white spot with only a few relatively carefully studied points. The butterfly fauna was poorly known, the distribution of described taxa remained uncertain, at the same time it was clear that there are many unknown species and forms. Yu. P. KORSHUNOV decided to devote his life to the study of the whole volume of the Rhopalocera fauna of Russian Northern Asia.

Yu. P. KORSHUNOV headed or took part in many expeditions of a very wide geographical range: Altai Mts. – 1947, 1949, 1952, 1974, 1976, 1980; Novosibirsk region (mostly its eastern part) – 1948, 1949, 1950, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1967,

1971, 1978, 1979, 1981, 1982, 1987, 1989; Tomsk region - 1952, 1953; Crimea - 1954, 1955; Transcaucasus - 1954; Kemerovo region (Mountainous Shoria) - 1977; Khakasia - 1975, 1978; Krasnoyarsk region (nature reserve "Stolby") - 1966; Polar Ural and Yamal - 1963, 1968; Buryatia - 1986. He was forced to remain home some summers for one sole reason, his heavy illness. The activity of other collectors, among them KORSHUNOV's disciples, increased considerably, and the volume of the butterfly collection of the Siberian zoological museum grew between the years 1960-2002 almost five times.

At the same time Yu. P. KORSHUNOV analyzed this enormous material. He described the Rhopalocera fauna, studied during the expedition at the "Stolby" reservation near Krasnoyarsk (KORSHUNOV, 1969a, 1969e, 1971b); beside it he studied other groups of insects together other investigators (1969b, c, d, 1971c). Many works of KORSHUNOV are dedicated to the Rhopalocera fauna of various regions of Asian Russia: Polar circle (KORSHUNOV, 1975, 1982c, 1985a); Western Siberia (KORSHUNOV, 1959b, 1960a, 1963, 1966a, 1968, 1973a, 1973c, 1981b, 1985b), among it the Upper Ob basin (KORSHUNOV, 1959a, 1961, 1962b, 1966b), North Baraba (KORSHUNOV, 1974b); Tuva, Yakutia, Baikal region and the adjacent Mongolian territory (KORSHUNOV, 1973b, 1979a; 1970a, 1978b, 1987c; 1974a, 1976d, 1977).

72 new taxa (genera, species and subspecies) were described by Yu. P. KORSHUNOV, partially together with his colleagues (see the attached list of new taxa), the overwhelming majority of them was accepted as valid by a majority of experts. New taxa were described in monographs and several articles, especially dedicated to their description (KORSHUNOV, 1977, 1980b, 1982c, e, 1984a, b, 1985c, 1987a, 1988b, c, 1990a, b, c, e, 1995b, 1996d, 1998b, 2000a).

The results of many years' work are summed up in Yu. P. KORSHUNOV's monographs.

The first monograph, "Butterflies of the Western Siberian Plain. A key." (KORSHUNOV, 1985e), contained key tables, detailed descriptions of all the butterflies in question and many illustrations.

The second monograph was "A catalogue of Rhopalocera (Lepidoptera) of the USSR" (KORSHUNOV, 1972d). KORSHUNOV's catalogue put the study of this group of insects on a new foundation, attracting a fresh scientific interest to this field. KORSHUNOV's advice and assistance to specialists in various fields furthered the publication of new studies of butterflies, including M. M. SIROTKIN's catalogue of the Moscow and Kaluga regions, A. P. KUMAKOV's descriptions of the Saratov region, etc.

The book "Butterflies of Asian part of Russia" (1995b, co-author P. GORBUNOV) with addenda & corrigenda in KORSHUNOV (1996d, 1998b) contains full information (nomenclature, area, morphological features, praemaginal stages, etc.) of the whole of the butterflies in this area, including maps and numerous drawings.

The title of the fourth monograph is "Butterflies of the Urals, Siberia and Far East. Key and annotations" (KORSHUNOV, 2000a) - a new remake of this work will be published soon. Besides a complete key table, this work contains short, but comprehensive biological commentaries on each species.

The book "Butterflies of North Asia. New taxa and synonyms" (unpublished; internet version of this book is placed on KORSHUNOV's site <http://www.jugan.boom.ru>) includes original descriptions of Northern Asian taxa since the year 1980, made by the author and other scholars, often published in various difficult obtainable books and articles.

Furthermore, Yu. P. KORSHUNOV wrote together with A. KUMAKOV a monograph about butterflies of the Saratov region (KORSHUNOV, 1979b). Several articles of KORSHUNOV are dedicated to common problems of the fauna of butterflies (KORSHUNOV, 1981a, 1984d, 1987d).

Yu. P. KORSHUNOV thoroughly investigated the zoogeography and ecology of Siberian butterflies (KORSHUNOV, 1959b, 1962a, 1972c, 1978a, 1996b), the history of their fauna (KORSHUNOV, 1970b, 1972a). His interest in ecology and care for the preservation of the fauna is closely tied with his participation in the composition of Red Books for the whole of the country and its regions, writing for them articles about preserved species (the Krasnoyarsk, Novosibirsk regions, Buryatia, Altai Republic – see KORSHUNOV, 1984e, 1988d, 1996a, 2000b). He wrote several works about the validity of including certain species into Red Books (KORSHUNOV, 1986a, b, 1987b, f, 1988a, 1989a, b, 1995c, d, 1996c).

Yu. P. KORSHUNOV wrote some articles about several groups of moths and other insects (KORSHUNOV, 1965a, 1971a, 1976a, b, c, 1980a, 1982a, 1982b, 1985b, 1990b).

In October 1987, on KORSHUNOV's initiative the first Entomological conference on Diurna in the history of Russian and Soviet entomology took place in Novosibirsk. Papers were read by 35 naturalists from 30 cities of the USSR.

Yu. P. KORSHUNOV prepared long ago his thesis for a candidate's degree, the volume and content of his monographs permitted him to get a doctor's degree without writing a thesis, but his scientist's overscrupulosity permanently delayed the term of their defence: he repeated often that the available Siberian material is not yet satisfactory for such an action. But in spite of the absence of a formal degree Yu. P. KORSHUNOV was considered as a leading expert in Rhopalocera not only in the country, but also in the whole of the world.

KORSHUNOV's name was appropriated to several taxa of insects: *Aphis korshunovi* IVANOVSKAJA, 1971 (Aphididae); *Plebejus argus korshunovi* STANDEL, 1960; *Neozephyrus korshunovi* DUBATOLOV & SERGEEV, 1982 (Lycaenidae); *Coenonympha glycerion korshunovi* NEKRUTENKO, 1978; *Hyponephele korshunovi* LUKHTANOV, 1994 (Satyridae); *Coenotephria korshunovi* VIIDALEPP, 1976 (Geometridae); *Prosimulium korshunovi* PATRUSHEVA, 1975 (Simuliidae).

Besides his scientific activities, Yu. P. KORSHUNOV wrote 73 popular-scientific, polemic and memoirs articles in newspapers and magazines, spoke via radio and TV, led yearly student practical works in the Zoological museum. Korshunov never denied to advice anyone. He was a good-natured and friendly man, with a perfect sense of humor. Having lost his wife V. D. PATRUSHEVA in 1976, he lived alone, spending his scanty earnings on books, diskettes, and other PC hardware. The computer helped him very much in the last years, because the arthritis and weak sight hindered his work. The possibility of correspondence by e-mail made his life easier, he didn't feel himself lonely, isolated from world's scientific life. He lived the last 7 years in the Museum, because it was hard to him to go home, all his books and the computer were in the working place. He died sitting at his writing-table.

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Appendices

New taxa described by Yu. P. KORSHUNOV

1. *Pseudophilotes jacuticus* KORSHUNOV & VIIDALEPP, 1980
2. *Plebejus argyrognomon chalcha* KORSHUNOV, 1982
3. *Polyommatus eros taimyrensis* KORSHUNOV, 1982
4. *Ravenna pacifica* DUBATOLOV & KORSHUNOV, 1984
5. *Neolycaena falkovitshi* ZHDANKO & KORSHUNOV, 1985
6. *Rubrapterus* KORSHUNOV, 1987 (type species: *Lycaena bavius* EVERS-MANN, 1832)
7. *Apatura metis irtyschica* KORSHUNOV, 1982
8. *Argynnis sagana relictica* KORSHUNOV, 1984
9. *Argynnis sagana nordmanni* KORSHUNOV, 1984
10. *Clossiana distincta machati* KORSHUNOV, 1987
11. *Clossiana distincta dubatolovi* KORSHUNOV, 1987
12. *Oeneis pseudosculda* KORSHUNOV, 1977
13. *Oeneis sapozhnikovii* KORSHUNOV, 1982
14. *Amuriana* KORSHUNOV & DUBATOLOV, 1984 (type specis: *Adolias schrenckii* MÉNÉTRIÈS, 1859)
15. *Ravenna pacifica* DUBATOLOV & KORSHUNOV, 1984
16. *Oeneis patrushevae* KORSHUNOV, 1985
17. *Oeneis sarala* KORSHUNOV, 1988
18. *Oeneis judini* KORSHUNOV, 1988
19. *Oeneis shurmaki* KORSHUNOV, 1988
20. *Oeneis ammosovi* DUBATOLOV & KORSHUNOV, 1988
21. *Driopa* KORSHUNOV, 1988 (type species: *Papilio mnemosyne* LINNAEUS, 1758)
22. *Erythrodriopa* KORSHUNOV, 1988 (type species: *Parnassius ariadne* KINDERMANN in LEDERER, 1853)
23. *Hipparchia dagi* KORSHUNOV & KRASILNIKOVA, 1990
24. *Celastrina fedoseevi* KORSHUNOV & IVONIN, 1990
25. *Bajluana* KORSHUNOV, 1990 (type species: *Lycaena argali* ELWES, 1899)
26. *Goldia* DUBATOLOV & KORSHUNOV, 1990 (type species: *Ravenna pacifica* DUBATOLOV & KORSHUNOV, 1984)
27. *Rubrapterus* KORSHUNOV, 1990 (type species: *Lycaena bavius* EVERS-MANN, 1832)
28. *Sachaia* KORSHUNOV, 1990 (type species: *Parnassius tenedius* EVERS-MANN, 1851)
29. *Sachaia ammosovi* KORSHUNOV, 1990
30. *Quinhaicus* KORSHUNOV, 1990 (type species: *Parnassius szechenyii* FRIVADZSKY, 1886)
31. *Kreizbergius* KORSHUNOV, 1990 (type species: *Parnassius simo* GRAY, 1852)
32. *Hesperia comma planula* KORSHUNOV, 1995
33. *Hesperia comma shushkini* KORSHUNOV, 1995
34. *Leptidea amurensis jakutica* P. GORBUNOV & KORSHUNOV, 1995
35. *Euchloe ausonia dubatolovi* KORSHUNOV, 1995
36. *Euchloe naina* KORSHUNOV, 1995
37. *Roddia* KORSHUNOV, 1995 (type species: *Papilio l-album* ESPER, 1780)
38. *Euphydryas iduna semenovi* KORSHUNOV & IVONIN, 1995
39. *Melitaea fascelis singularia* KORSHUNOV, 1995
40. *Clossiana astarte ershovi* KORSHUNOV & P. GORBUNOV, 1995

41. *Clossiana matveevi* P. GORBUNOV & KORSHUNOV, 1995
42. *Boloria altaica pustagi* KORSHUNOV & IVONIN, 1995
43. *Hyponephele cadusina gurkini* KORSHUNOV, 1995
44. *Erebia kosterini* P. GORBUNOV, KORSHUNOV & DUBATOLOV, 1995
45. *Erebia mckinleyensis ola* KORSHUNOV, 1995
46. *Erebia theano tshugunovi* KORSHUNOV & IVONIN, 1995
47. *Erebia theano shoria* KORSHUNOV & IVONIN, 1995
48. *Erebia fletcheri chorymensis* KORSHUNOV, 1995
49. *Erebia pandrose yernikensis* KORSHUNOV, 1995
50. *Oeneis sculda vadimi* KORSHUNOV, 1995
51. *Oeneis elwesi ulugchemi* KORSHUNOV, 1995
52. *Oeneis magna pupavkini* KORSHUNOV, 1995
53. *Heodes alciphron rubidus* KORSHUNOV, 1995
54. *Polyommatus icarus omelkoi* DUBATOLOV & KORSHUNOV, 1995
55. *Pyrgus serratulae shukshini* KORSHUNOV & IVONIN, 1996
56. *Colias palaeno gomojunovae* KORSHUNOV, 1996
57. *Colias thisoa nikolaevi* KORSHUNOV, 1996
58. *Triphysa albovenosa sacha* KORSHUNOV, 1996
59. *Coenonympha amaryllis borisovi* KORSHUNOV & IVONIN, 1996
60. *Erebia euryale flaveoides* KORSHUNOV & TATARINOV, 1996
61. *Satyrus ferula medvedevi* KORSHUNOV, 1996
62. *Clossiana eunomia riamia* KORSHUNOV & IVONIN, 1996
63. *Clossiana eunomia stromi* KORSHUNOV, 1996
64. *Clossiana chariclea tshuktsha* DUBATOLOV & KORSHUNOV, 1996
65. *Euphydryas iduna alferakyi* KORSHUNOV, 1996
66. *Erebia rossi subarctica* KORSHUNOV, 1996
67. *Oeneis aktashi ona* KORSHUNOV, 1996
68. *Oeneis jakutski* KORSHUNOV, 1998
69. *Oeneis anna dzhulukuli* KORSHUNOV, 1998
70. *Oeneis chione tshukota* KORSHUNOV, 1998
71. *Inderskia* KORSHUNOV, 2000 (type species: *Lycaena panope* EVERSMANN, 1851)
72. *Oeneis jutta lukhtanovi* KORSHUNOV, 2000

Scientific works by Yu. P. KORSHUNOV

(in Russian, except 1998a)

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- 2 (1956): Ecological and zoogeographical characteristics of the Lepidoptera fauna (Rhopalocera) of the mountainous part and the southern coast of the Crimea. – Itogovaja studenceskaja naucnaja konferencija Char'kovskogo universiteta. Tezisy dokladov. Char'kov, pp. 211–212.
- 3 (1959a): Biotopic accommodated Rhopalocera of the coastal zone of the Novosibirsk reservoir. – Trudy Biologiceskogo instituta SO AN SSSR 5: 215–218.

- 4 (1959b): Rhopalocera (Lepidoptera) of Western Siberia and their zonal accommodation. – IV Sjezd Vsesojuznogo entomologičeskogo obščestva. Tezisy dokladov 1: 68–69.
- 5 (1960a): Butterflies (Lepidoptera, Rhopalocera) in the Middle Priobye. Izvestija SO AN SSSR 7: 116–120.
- 6 (1960b): An experience of using mercury lamps for attraction of insects. – Pervaja konferencija molodych ucenyh SO AN SSSR. Tezisy dokladov. Novosibirsk, pp. 130–131.
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- 9 (1962b): Insects of biological complexes of Upper Priobye. – Problemy zoologičeskich issledovanij v Sibiri. Gorno-Altajsk, pp. 256–260. (Co-authors: A. I. CHEREPANOV, O. I. IVANOVSAYA-SHUBINA, G. S. ZOLOTARENKO, F. I. OPANASENKO).
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- 13 (1966a): Butterflies of the middle taiga of Western Siberia. – Fauna i ekologija clenistonogich Sibiri. Novosibirsk, pp. 178–183.
- 14 (1966b): The flight of some butterflies into Southern Priobye. – Fauna i ekologija clenistonogich Sibiri. Novosibirsk, pp. 184–186.
- 15 (1968): Cabbage Butterfly in Western Siberia. – Kartofel' i ovošči 3: 42.
- 16 (1969a): The distribution of insects in the biotopes of the valley of Mana r. (lower reaches). – Voprosy entomologii. Trudy Gosudarstvennogo zapovednika "Stolby", Krasnojarsk 7: 106–107.
- 17 (1969b): Beetles (Coleoptera) of "Stolby" reservation. – Ibid., pp. 129–142. (Co-author: F. I. OPANASENKO).
- 18 (1969c): Blood-sucking gnats (Diptera, Culicidae) of Mana lower reaches. – Ibid., pp. 143–148. (Co-author: L. P. KUKHARCHUK).
- 19 (1969d): Midges (Diptera, Simuliidae) of the Mana region of the "Stolby" reservation. Ibid., pp. 149–164. (Co-author: V. D. PATRUSHEVA).
- 20 (1969e): Butterflies (Lepidoptera, Diurna) of the Mana area of the reservation "Stolby" Ibid., pp. 165–203.
- 21 (1970a): Butterflies of Yakutia, Predbaikalye and Zabaikalye. – Fauna Sibiri, pp. 152–201.
- 22 (1970b): The role played by the butterflies in the Kuznetsk Mts. in the origin of the butterfly fauna of Western Siberia. VI Sjezd Vsesojuznogo entomologičeskogo obščestva. Annotacija dokladov. Voronez, p. 90.
- 23 (1971a): The ratio of harmful forest insects in the North of the middle taiga in Western Siberia – Problemy zaščity taježnyh lesov. Krasnojarsk, pp. 82–84.
- 24 (1971b): Butterflies (Lepidoptera, Diurna) of the Mana area of the reservation "Stolby" Voprosy entomologii. Trudy Gosudarstvennogo zapovednika "Stolby", Krasnojarsk 8: 100–114.

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- 32 (1973b): Butterflies of Tuva. – Ibid., pp. 204–220.
- 33 (1973c): The entomological fauna of the northern part of the middle taiga in Western Siberia. – Priroda tajgi Zapadnoj Sibiri. Novosibirsk, pp. 136–151.
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- 36 (1975): Butterflies near the Polar circle in Western Siberia. – Materialy VII sjezda Vsesojuznogo èntomologiceskogo obščestva, Leningrad **1**: 57–58.
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- 47 (1980b): A new species of the genus *Pseudophilotes* BEURET, 1958 (Lepidoptera, Lycaenidae) from Yakutia. – Sistematika i èkologija zivotnych. Novye i maloizvestnye vidy fauny Sibiri, Novosibirsk **14**: 154–157.

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