
MEMORY

In Memory of G. O. Krivolutskaya (1923–2007)

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Gali Olimpievna Krivolutskaya, a Senior Researcher at the Laboratory of Entomology, the Institute for Biology and Soil Sciences of the Russian Academy of Sciences (Far Eastern Division), a member of the Russian Entomological Society, Doctor of Biology, passed away on February 26, 2007, at the age of 83, after a prolonged illness.

G.O. Krivolutskaya was born on March 30, 1923 in Moscow, in the family of a mining engineer. Already as a child, she travelled with her father in the Urals, Western and Eastern Siberia, the Transbaikalia, and the Northern Caucasus. These early impressions aroused her interest in nature and traveling. In 1947 Gali Olimpievna graduated from the Biological Faculty of Moscow State University and continued working at the Department of Entomology, where she carried out her first research (on oribatid mites) under the supervision of Prof. A.A. Zakhvatkin. Her enthusiasm for scientific research and field work made her leave

Moscow in 1949 and go to Sakhalin, where she investigated insect forest pests at the Sakhalin Branch of the Academy of Sciences. Under the supervision of A.I. Kurentsov she began her research of bark beetles. Gali Olimpievna maintained her Candidate's thesis *Bark Beetles of Sakhalin Island* in 1954, and prepared a monograph under the same title in 1958. This book summarized the data on taxonomy, distribution, ecology, tunnel structure, and economic importance of 63 species of bark beetles; 26 species were reported for the first time from Sakhalin, and 4 species and 2 infraspecific forms were described as new to science. This monograph was highly appreciated by experts and won a Prize of the Presidium of the Academy of Sciences.

In 1955–1961 Gali Olimpievna worked at the Biological Institute of the West Siberian Branch of the Academy of Sciences, studying the cryptic wood-boring pests in the Siberian moth outbreak loci in the vast territory of Western Siberia (Novosibirsk, Tomsk, and Kemerovo provinces, Altai and Krasnoyarsk territories). She described the complex of wood-boring insects, consisting largely of beetles (except for 3 species of horntails), and studied the fauna and biology of 4 coleopteran families: bark beetles, long-horned beetles, weevils, and jewel beetles. Based on these studies, Gali Olimpievna prepared the monograph *Cryptic Woodboring Pests in Western Siberian Dark Coniferous Forests Damaged by the Siberian Moth* (1964), containing a comprehensive characteristic of these groups of beetles (structure of tunnels and their position on tree trunks, the density of larvae and adults, the degree of damage to wood, the flight period, etc.) and illustrated keys. The book immediately became a reference of Siberian beetles. In 1955–1958 Gali Olimpievna studied the insect pests of green plantations in Novosibirsk.

From 1961 until her retirement in 1993, Gali Olimpievna worked at the Laboratory of Entomology, the

Institute for Biology and Soil Sciences, Far Eastern Division of the Academy of Sciences of the USSR (now Russian Academy of Sciences) in Vladivostok. In 1961–1972 she studied the insect fauna of the Kuril Islands (Shikotan, Kunashir, Iturup, Urup, Simushir, Paramushir, and Shumshu). The results of this work were published in the books *The Insect Fauna of the Kuril Islands* (1973) and *Crane Flies (Diptera, Limoniidae) of the Southern Kuril Islands and Southern Sakhalin* (1976, with E.N. Savchenko). In 1972 she maintained her Doctoral Dissertation *The Main Features of the Insect Fauna of the Kuril Islands*. Her monograph *The Insect Fauna of the Kuril Islands: Its Origin and Main Features* was the first synopsis of insects of this remote and hard-to-reach area published in Russian. It was highly appreciated by specialists in Russia and abroad, and later translated into English.

In 1972–1993 Gali Olimpievna worked within the research program “Beetles of the Russian Far East.” After the death of A.I. Kurentsov she remained the only Russian expert in bark beetles. She prepared the relevant sections of the *Keys to Insects of the European Part of the USSR* (1964) and *Keys to Insects of the Russian Far East* (1996).

Gali Olimpievna was the leading expert in the bark beetles and related coleopteran families in the Russian Far East. For many years she coordinated researches of these insects, edited two volumes of *Keys to Insects of the Russian Far East* devoted to beetles, and prepared the general characteristic of the order Coleoptera and the sections on 11 beetle families. In all, she had 77 scientific publications, including 4 monographs. Gali Olimpievna was well known in Russia and adjacent countries as a specialist in the insect fauna of Sakhalin and the Kuril Islands.

A well-educated and disciplined researcher, Gali Olimpievna was able to solve complex problems of taxonomy and ecology of bark beetles and to analyze the diverse insect fauna of the Kuril Islands. A devoted taxonomist, she did not hesitate to enter some related fields of biology, in particular, dealing with the problems of insular speciation or the origin of the Kuril fauna. Although she regarded the taxonomy of beetles as the principal aspect of her career, Gali Olimpievna was often involved in applied entomological research, studying the pests of green plantations in Novosibirsk, the woodboring forest pests in the Siberian moth outbreaks in Western Siberia, and wax scales in the Primorskii Territory. She carried out this

work most seriously and thoroughly, trying to obtain results of general scientific significance. Such an approach was characteristic of all phases of her work: collection and labeling of material, accumulation of data, and preparation of the manuscript. Manifesting great skills, Gali Olimpievna edited the collected articles issued by her laboratory. She was a very knowledgeable person and a good teacher, three Candidate’s dissertations having been maintained under her supervision.

Gali Olimpievna was a woman of remarkable optimism and a special taste for life. She liked traveling, enjoyed photography and filming. Already after her retirement she prepared the bark beetle section for *Keys to Insects of the Russian Far East*. She was a kind person, always willing to help or advise.

All her pupils, friends, and colleagues regarded G.O. Krivolutskaya as a distinguished entomologist, a gifted research leader, and an amiable personality. Eleven species of insects were named after her. G.O. Krivolutskaya will be remembered as a scientist who contributed much to the development of entomology in the Russian Far East.

LIST OF PUBLICATIONS OF G.O. KRIVOLUTSKAYA

1948

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1952

2. “Mites of the Family Galumnidae in Pastures of Southern Kazakhstan,” *Trudy Inst. Veter. Kazakh. Akad. Sel’skokhoz. Nauk* **6**, 589–609 (1952).

1954

3. *Bark Beetles of Sakhalin Island*. Candidate’s Dissertation in Biology (Vladivostok, 1954).

1956

4. “Primary Pests in the Green Plantations of Novosibirsk,” in *Abstracts of Papers, 10th Report Session* (Novosibirsk, 1956), pp. 1–2 [in Russian].
5. “Bark Beetles of Sakhalin Island: A Preliminary Communication,” *Trudy Dal’nevostochn. Filiala Akad. Nauk SSSR, Ser. Zool.* **3** (6), 55–64 (1956).
6. “Bark Beetles (Coleoptera, Ipidae) in Forests of Sakhalin Island,” *Entomol. Obozr.* **35** (4), 826–839 (1956).

7. "Some Trends in the Development of Secondary Pests in Burnt-out Areas of Spruce and Fir Forests of Sakhalin Island," *Soobshch. Sakhalin. Kompl. Nauchno-Issled. Inst.*, No. 3, 65–69 (1956).
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8. "Zoogeographic Aspect and Genesis of the Bark Beetle Fauna in Sakhalin Island," in *Proc. 2nd Conf. of Young Scientists of the Western Siberian Branch of the USSR Academy of Sciences* (Novosibirsk, 1957), pp. 39–50.
9. "Experiments of Unbarked Wood Treatment with DDT and Hexachlorocyclohexane," in *Abstracts of Papers, Workshop of Siberian Zoologists (November 1957)* (Novosibirsk, 1957), pp. 40–41 [in Russian].
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13. "Chemical Treatment of Wood," in *Technical Bulletin of the Kemerovo Economic Council, nos. 2–3* (Kemerovo, 1960) [in Russian] (with M. Bashko).
14. "Wood-boring Pests in Western Siberian Forests Damaged by the Siberian Moth," in *Materials on the Siberian Moth Problem* (Siberian Division, Acad. Sci. USSR, Novosibirsk, 1960), pp. 75–92 [in Russian].
15. "The Most Harmful Pests in the Green Plantations of Western Siberia," in *Urban Landscape Gardening in Western Siberia* (Siberian Division, Acad. Sci. USSR, Novosibirsk, 1960), pp. 65–75 [in Russian] (with A.I. Cherepanov).
- 1961
16. "Pests of Green Plantations in Novosibirsk," in *Plant Resources of Novosibirsk Province* (Siberian Division, Acad. Sci. USSR, Novosibirsk, 1961), pp. 199–207 [in Russian].
17. "Fauna of Long-Horned Beetles (Coleoptera, Cerambycidae) of Sakhalin Island," *Entomol. Obozr.* **40** (2), 300–314 (1961).
- 1962
18. "Larvae of Three Long-Horned Beetle Species (Coleoptera, Cerambycidae)," *Zool. Zh.* **41** (5), 770–776 (1962).
19. "Some Distributional Trends of Dendrophilous Insects in the Southern Kuril Islands," in *Proc. 2nd Workshop of Geographers of Siberia and the Far East* (Siberian Division, Acad. Sci. USSR, Vladivostok, 1962), pp. 41–44.
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22. "Colonization of Siberian Fir Trees by Insects and Dynamics of Insect Complexes during Destruction of Fir Forests Damaged by the Siberian Moth in Western Siberia," in *Problems of Ecology of Terrestrial Invertebrates. Proc. 4th Ecological Conf. Vol. 7* (Vysshaya Shkola, Kiev, 1962), pp. 87–89 [in Russian].
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23. "On the Fauna of Bark Beetles (Coleoptera, Ipsidae) of the Southern Kuril Islands," in *Abstracts of Papers, 2nd Workshop of Higher Education* (Moscow, 1963).
24. "Rains of Volcanic Ash," *Priroda*, No. 7, 126 (1963) (with V.A. Nechaev).
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25. "Specificity of the Fauna and Flora of the Kuril Islands," in *Nature Protection in the Far East, No. 2* (Siberian Division, Acad. Sci. USSR, Vladivostok, 1964), pp. 7–15 [in Russian].
26. "Family Ipsidae, Bark Beetles," in *Keys to Insects of the European Part of the USSR Vol. 2. Coleoptera and Strepsiptera* (Nauka, Moscow, Leningrad, 1964), pp. 622–639 [in Russian].
27. *Wood-boring Pests in Western Siberian Dark Coniferous Forests Damaged by the Siberian Moth* (Nauka, Moscow, 1964) [in Russian].
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30. "Fauna of Long-Horned Beetles (Coleoptera, Cerambycidae) of the Southern Kuril Islands," in *Forest Pests of*

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32. “Ecology of the White Wax Scale (*Ericerus pela* Chav.) in Primorskii Territory,” in *Forest Pests of the Soviet Far East* (Far Eastern Branch, Acad. Sci. USSR, Vladivostok, 1966), pp. 127–142 [in Russian] (with Z.A. Konovalova).
33. “Fauna of Leaf Beetles (Coleoptera, Chrysomelidae) of the Kuril Islands,” in *Forest Insect Fauna of the Kuril Islands, Kamchatka, and Magadan Province* (Nauka, Moscow, 1966), pp. 25–33 [in Russian] (with L.N. Medvedev).
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35. “On Crane Flies of the Kuril Islands,” in *Forest Insect Fauna of the Kuril Islands, Kamchatka Peninsula, and Magadan Province* (Nauka, Moscow, 1966), pp. 45–58 [in Russian] (with E.N. Savchenko).
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37. “Insects in the Forests of Sakhalin and the Kuril Islands,” in *Results of Studies of the Far Eastern Forests. Proc. of Workshop* (Far Eastern Branch, Acad. Sci. USSR, Vladivostok, 1967), pp. 256–259 [in Russian].
38. “Eco-Geographic Specificity of the Insect Fauna of the Kuril Islands,” *Zool. Zh.* **46** (1), 55–66 (with A.I. Kurentsov).
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41. “The Fauna of Insects of Kuril Islands and Its Peculiarities,” in *Abstracts of Papers, XIII Int. Entomological Congr.* (Nauka, Leningrad, 1968), p. 135.
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42. “Speciation under Island Conditions (by the Example of the Insect Fauna of Sakhalin and the Kuril Islands),” in *Problems of Phylogeny and Taxonomy. Proc. Symp. (9–11 April, 1969)* (Far Eastern Branch, Acad. Sci. USSR, Vladivostok, 1969), pp. 128–141 [in Russian].
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49. “Main Features of the Insect Fauna of the Kuril Islands, Its Origin and Development,” in *Island Faunas of the World Ocean. Proc. of Workshop, December 1972* (State Univ., Moscow, 1972), pp. 35–40 [in Russian].
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51. *The Insect Fauna of the Kuril Islands: Its Origin and Main Features* (Nauka, Leningrad, 1973) [in Russian].
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52. “Fauna of Noctuid Moths (Lepidoptera, Noctuidae) of the Kuril Islands,” in *Fauna and Ecology of Insects in*

Siberia (Nauka, Novosibirsk, 1974), pp. 39–80 [in Russian] (with G.S. Zolotarenko and Z.A. Konovalova).

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1975

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1976

55. *Crane Flies (Diptera, Limoniidae) of the Southern Kuril Islands and Southern Sakhalin* (Naukova Dumka, Kiev, 1976) [in Russian] (with E.N. Savchenko).

1978

56. "The Academic Merits," in *A. I. Kurentsov, the Scientist* (Priokskoe Knizhnoe Izdat., Tula, 1978), pp. 54–60 [in Russian].
57. "On the Weevil Fauna (Coleoptera, Curculionidae) of the Southern Kuril Islands and Sakhalin," in *New Data on the Insects of Sakhalin and the Kuril Islands* (Acad. Sci. USSR, Vladivostok, 1978), pp. 87–101 [in Russian] (with M.E. Ter-Minasyan and A.B. Egorov).

1981

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1983

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1984

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1985

63. "The Korean Relict Long-Horned Beetle (*Callipogon relictus* Sem.)," in *The Forest Encyclopedia, Vol. 1*

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1989

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66. "26. Family Ptiliidae (Trichopterygidae), Feather-Winged Beetles," in *Keys to Insects of the Soviet Far East. Vol. 3. Beetles. Part 1* (Nauka, Leningrad, 1989), pp. 373–374 [in Russian].

1992

67. "Aleksei Ivanovich Kurentsov: Traveler, Scientist, and Teacher," in *A.I. Kurentsov Memorial Lectures, Issues 1–2* (Dal'nauka, Vladivostok, 1992), pp. 5–11 [in Russian].
68. "50. Family Bostrychidae, Auger Borers," in *Keys to Insects of the Soviet Far East. Vol. 3. Beetles. Part 2* (Nauka, Leningrad, 1992), pp. 60–61 [in Russian].
69. "51. Family Lyctidae, Powder-Post Beetles," in *Keys to Insects of the Soviet Far East. Vol. 3. Beetles. Part 2* (Nauka, Leningrad, 1992), p. 61 [in Russian].
70. "56. Family Cleridae, Checkered Beetles," in *Keys to Insects of the Soviet Far East. Vol. 3. Beetles. Part 2* (Nauka, Leningrad, 1992), pp. 86–93 [in Russian].
71. "58. Family Lymexylonidae, Ship Timber Beetles," in *Keys to Insects of the Soviet Far East. Vol. 3. Beetles. Part 2* (Nauka, Leningrad, 1992), p. 106 [in Russian].
72. "65. Family Cucujidae, Flat Bark Beetles," in *Keys to Insects of the Soviet Far East. Vol. 3. Beetles. Part 2* (Nauka, Leningrad, 1992), pp. 233–245 [in Russian].
73. "70. Family Languriidae, Lizard Beetles," in *Keys to Insects of the Soviet Far East. Vol. 3. Beetles. Part 2* (Nauka, Leningrad, 1992), pp. 284–285 [in Russian].
74. "71. Family Erotylidae, Pleasing Fungus Beetles," in *Keys to Insects of the Soviet Far East. Vol. 3. Beetles. Part 2* (Nauka, Leningrad, 1992), pp. 285–303 [in Russian].
75. "84. Family Cisidae," in *Keys to Insects of the Soviet Far East. Vol. 3. Beetles. Part 2* (Nauka, Leningrad, 1992), pp. 423–426 [in Russian].

1996

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77. "114. Family Platypodidae, Ambrosia Beetles," in *Keys to Insects of the Russian Far East. Vol. 3. Beetles. Part 3* (Dal'nauka, Vladivostok, 1996), pp. 374–377 [in Russian].

SPECIES OF BEETLES AND ACARINES
DESCRIBED BY G.O. KRIVOLUTSKAYA

Allogalumna boevi Krivolutskaja, 1952 (SE Kazakhstan)—Acari: Galumnidae.

Allogalumna thysanura Krivolutskaja, 1952 (SE Kazakhstan)—Acari: Galumnidae.

Cryphalus alni Krivolutskaja, 1958 (Sakhalin)—Coleoptera: Scolytidae.

Cryphalus kurilensis Krivolutskaja, 1968 (Kuril Islands)—Coleoptera: Scolytidae.

Cryphalus padi Krivolutskaja, 1958 (Sakhalin)—Coleoptera: Scolytidae.

Dryocoetes aceris Krivolutskaja, 1968 (Kuril Islands)—Coleoptera: Scolytidae.

Eudophelus elegans Krivolutskaja, 1956 (Sakhalin)—Coleoptera: Scolytidae.

Eocryphalus zachvatkini Krivolutskaja, 1958 (Sakhalin)—Coleoptera: Scolytidae.

Galumna dimorpha Krivolutskaja, 1952 (SE Kazakhstan)—Acari: Galumnidae.

Galumna kazakhstanii Krivolutskaja, 1952 (SE Kazakhstan)—Acari: Galumnidae.

Hypothenemus insularum Krivolutskaja, 1968 (Kuril Islands)—Coleoptera: Scolytidae.

Pityophthorus sachalinensis Krivolutskaja, 1956 (Sakhalin)—Coleoptera: Scolytidae.

Pseudohyorrhynchus wadai kurilensis Krivolutskaja, 1996 (Kuril Islands)—Coleoptera: Scolytidae.

Pseudotritoma laferi Krivolutskaja, 1992 (Primorskii Territory)—Coleoptera: Erotylidae.

Pseudotritoma ussuriensis Krivolutskaja, 1992 (Primorskii Territory)—Coleoptera: Erotylidae.

Silvanoprus sikhotensis Krivolutskaja, 1992 (Primorskii Territory)—Coleoptera: Cucujidae.

Sphaerotrypes juglansis Krivolutskaja, 1970 (Primorskii Territory)—Coleoptera: Scolytidae.

Thanasimus nigriventralis Krivolutskaja, 1981 (Khabarovsk Territory)—Coleoptera: Cleridae.

Tomicus puellus orientalis Krivolutskaja, 1956 (Sakhalin)—Coleoptera: Scolytidae.

SPECIES OF INSECTS NAMED
AFTER G.O. KRIVOLUTSKAYA

Amara krivolutzkajae Lafer, 1989 (Coleoptera, Carabidae).

Ampedus galii Gurieva, 1979 (Coleoptera, Elateridae).

Aphis galiae Ivanovskaja, 1959 (Homoptera, Aphidae).

Cotoya galiae Anufriev, 1977 (Homoptera, Delphacidae).

Dictyoptera krivolutzkajae L. Medvedev, 1966 (Coleoptera, Lycidae).

Dryocoetes krivolutzkajae Mandelshtam, 2001 (Coleoptera, Scolytidae).

Hypothenemus krivolutzkajae Wood, 1992 (Coleoptera, Scolytidae).

Isorhipis krivolutzkii L. Medvedev, 1970 (Coleoptera, Eucnemidae).

Paraneurus galiae Kerzhner, 1979 (Heteroptera, Aradidae).

Plateros krivolutzkajae L. Medvedev, 1966 (Coleoptera, Lycidae).

Polygraphus punctifrons krivolutzkianus Stark, 1952 (Coleoptera, Scolytidae).

Triaspis krivolutzkayae Belokobylskij, 1994 (Hymenoptera, Braconidae).