BRIDGES OF SCIENCE BETWEEN NORTH AMERICA AND THE RUSSIAN FAR EAST PAST, PRESENT AND FUTURE

AN INTERNATIONAL CONFERENCE ON THE ARCTIC AND NORTH PACIFIC

PROCEEDINGS

RUSSIAN ACADEMY OF SCIENCES Far Eastern Branch

BRIDGES OF SCIENCE BETWEEN NORTH AMERICA AND THE RUSSIAN FAR EAST PAST, PRESENT AND FUTURE

AN INTERNATIONAL CONFERENCE ON THE ARCTIC AND NORTH PACIFIC

PROCEEDINGS

Edited by Valentine I. Sergienko, Oleg L. Shcheka, Alexander I. Cherednichenko

DISTRIBUTION PECULIARITIES OF THE ANODONTIN BIVALVES (UNIONIDAE) FROM GENUS BERINGIANA

E.M. Sayenko, V.V. Bogatov
Institute of Biology and Soil Sciences FEB RAS, Vladivostok

In Russia distribution area of the genus *Beringiana* belongs to the East-Siberian subregion of the Palearctic Region while all other anodontin genera of the Russian Far East (*Cristaria*, *Sinanodonta*, *Anemina*, *Buldowskia*, *Amuranodonta*, and *Kunashiria*) inhabit the Chino-Indian Region [1]. In Russia mollusks of the genus *Beringiana* were collected in Yakutia (Indigirka and Kolyma river basins), Magadan District (Nizhniaya Kolyma, Kava, Anadyr, Khatyrka and Ola river basins), Kamchatka District and Paramushir Is. (northern Kuril Islands) [2], [3], [4], [5]. Besides Russia, bivalves of the genus were also registered in Aleutian Islands, Alaska, coastal line of the Washington State (USA) and west Canada [5], [6], [7], [8]. Before our investigation the genus *Beringiana* included 3 species – *B. beringiana*, *B. youkonensis*, and *B. taranetzi* [9].

This investigation is based on collections of the Institute of Biology and Soil Sciences, Vladivostok, and Zoological Institute, St.-Petersburg. Specimens from southern Kamchatka and Paramushir are collected during the International Kuril Island Project (IKIP), grants DEB-9400821, DEB-9505031 of the U.S. National Science Foundation, and grant BSAR-401 of the Japan Society.

As a result of IKIP, new species *B. compressa* from Paramushir Is. is described [4]. Later a taxonomic review reveals that in northeastern Russia and northwestern America the genus *Beringiana* includes 9 species where 4 species – *B. chereshnevi*, *B. derzhavini*, *B. kamchatica*, *B. georgiensis* – are added to the list as new for science and *B. taranetzi* is redescribed as a member of the genus *Arsenievinaia* [5].

In northern Kurils we register only 1 locality of the genus in Pernatoye L., Paramushir Is. [4], [5], [10], although in 1930s this genus was also mentioned for Zerkalnoye (Paramushir) and Bolshoye (Shumshu Is.) lakes [3]. In Kamchatka we note 7 localities of the genus, including Azabachie, Suzutsi and Stolbovoye lakes, Kamchatka and Blizhniaya river basins. During IKIP *Beringiana* is collected in Yavinskoye L. (Kamchatka) for the fist time.

Species *B. compressa* is known from Pernatoye L. (Paramushir) only [4]. Species *B. derzhavini* is described from Blizhniaya river basin (Kamchatka) only [5]. Mollusks of *B. chereshnevi*, first known from Suzutsi L. (Kamchatka) only [5], we also identify in samples from Azabachie L. Bivalves of *B. kamchatica*, first collected in Kamchatka, Paramushir and Aleutian Islands [5], we now register in Kava R. (Magadan District). Mollusks of *B. beringiana* occur in Kamchatka, Paramushir, Aleutian Islands, Alaska, Canada [5], [7], [8]. Species *B. kennerlyi*, *B. oregonensis* and *B. georgiensis* are known from USA and Canada [5]. Our revision shows that *B. youkonensis* occurs in all distribution area of the genus.

- [1] Starobogatov Ya.I. Fauna of mollusks and zoogeographical division of the continental waterbodies of the globe. L.: Nauka, 1970
- [2] Kuroda T., Koba K. Bulletin of the Biogeographical Society of Japan 4 (1933) 151-170
- [3] Miyadi D. Archiv für Hydrobiologie 31 (1937) 28-483
- [4] Sayenko E.M., Bogatov V.V. Zoologicheskyi zhurnal 77 (1998) 1414-1418
- [5] Bogatov V.V., Starobogatov Ya.I. Zoologicheskyi zhurnal 80 (2001) 26-31
- [6] Dall W.H. Alaska 13 (1905) 1-175
- [7] Burch J.B. Freshwater Unionacean clams (Mollusca: Pelecypoda) of North America. Hamburg, Michigan: Malacological Publications, 1975
- [8] Clarke A.H. The freshwater molluscs of Canada. Ottawa: National Museum of Natural Sciences, National Museums of Canada, 1981
- [9] Zatravkin M.N., Bogatov V.V. Large bivalves of fresh and brackish waters of Far East of the USSR. Vladivostok: Dalnauka, 1987
- [10] Prozorova L.A., Sayenko E.M., Bogatov V.V. Flora and fauna of Kuril Islands (Materials of International Kuril Island Project). Vladivostok: Dalnauka (2002) 82-95