

BENTHOLOGICAL SOCIETY OF ASIA
RUSSIAN ACADEMY OF SCIENCES
FAR EASTERN BRANCH
THE FEDERAL AGENCY OF SCIENTIFIC ORGANIZATIONS
INSTITUTE OF BIOLOGY AND SOIL SCIENCE
A.V. ZHIRMUNSKY INSTITUTE OF MARINE BIOLOGY
PRIMORSKY AQUARIUM
FAR EASTERN FEDERAL UNIVERSITY
PRIMORSKY BRANCH OF THE HYDROBIOLOGICAL SOCIETY AT RUSSIAN
ACADEMY OF SCIENCES



ABSTRACT BOOK

3rd INTERNATIONAL SYMPOSIUM OF BENTHOLOGICAL SOCIETY OF ASIA

Vladivostok, Russian Federation
August 24–27, 2016



VLADIVOSTOK
DALNAUKA 2016

УДК 574.5(5)(063)

3rd International Symposium of Benthological Society of Asia. Vladivostok, Russian Federation. August 24–27, 2016: Abstract Book. Vladivostok: Dalnauka, 2016. 180 p. ISBN 978-5-8044-1610-3.

The 3rd International Symposium of Benthological Society of Asia is held in Vladivostok, Russia, from 24 to 27 August 2016, then from 27 to 31 August 2016 is continuing as The First International Youth Freshwater Ecology School. Various aspects of freshwater and marine biodiversity, biology and ecology problems are in the focus of the Symposium papers. Special attention has been paid to conservation of waters in the urban and wildlife areas of Asian region. Water quality and transboundary water ecosystem monitoring and control are considered at the international point of view as well as questions of ecological education and involving of public to water resources protection. The future international cooperation in different branches of benthological fundamental and applied sciences is discussed.

The book will be interesting for specialists in biology, ecology and biogeography, for practical workers, students and public deal with the water ecosystems protection, monitoring and control.

Co-Conveners: Academician of RAS Yu.N. Zhuravlev,
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The Abstract Book is approved for printing by:
Scientific Editorial Council of the Far Eastern Branch of Russian Academy of Sciences
Editor-Publishing Board of the Institute of Biology and Soil Science FEB RAS
The Symposium Organizing Committee

Publishing of the Abstract Book is funded by Far Eastern Branch of
Russian Academy of Sciences

Carrying out the Symposium and the First International Youth Freshwater Ecology School is supported
by:

Russian Foundation for Basic Research Researches (grant № 16-04-20567)
Far Eastern Federal University
Federal Agency of Scientific Organizations
Institute of Biology and Soil Science, FEB RAS
A.V. Zhirmunsky Institute of Marine Biology, FEB RAS
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ISBN 978-5-8044-1610-3



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(O49) AQUATIC MOLLUSK FAUNA OF THE UPPER YENISEI RIVER
BASIN (THE REPUBLIC OF TUVA, RUSSIA)

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Tuva lies in geographical centre of Asia and there is one of biggest watersheds in the world where the great Yenisei River starts its way. The Upper Yenisei River is one of a few rivers in Siberia with minor human transformation.

First data on the Upper Yenisei River mollusk fauna from Tuva were reported by V.N. Greze and I.I. Greze in 1957–1958; first checklist included seven species: *Radix ovata*, *Gyraulus albus*, *Valvata aliena*, *Anodonta anatina*, *Sphaerium scaldianum*, *S. lacustre*, *Pisidium amnicum*. Later in 1969, A.N. Gundrizer and M.A. Ivanova reported in a short publication about 31 species with special attention to the Upper Yenisei River basin.

Vast collections of aquatic mollusks made by the author during 1994 and 2004 in the Upper Yenisei River basin within the "Azas" State Nature Reserve in north-eastern Tuva. Almost 5000 shells and specimens were fixed in 75 % alcohol; the collection is now deposited at the Institute of Biology and Soil Science FEB RAS, Vladivostok.

Shells and specimens were investigated by conchological, anatomical and SEM methods based on original study. Conchological characters include shell outline, sculpture, features of hinge, ligament, muscle scars and pores; the most important structures are illustrated on the SEM photographs. Anatomical characters were studied in situ and figured with a camera lucida. At present, in total 108 aquatic mollusk species were found – 56 gastropods and 52 bivalves. Total fifty-six species belonging to 4 families and 6 genera of freshwater gastropods for the Upper Yenisei River basin are recorded. Gastropods fauna of the "Azas" State Nature Reserve includes 44 species.

Most recorded gastropods species (73 %) are Palaearctic and 20 % of all species have Siberian distribution.

Bivalves in the "Azas" State Nature Reserve and adjacent territories of the Todzha Hollow in the Republic of Tuva are represented by 52 species. Bivalve fauna in the reserve includes 49 species. Ten species in 5 genera of the Sphaeriidae were represented. Three species in 2 genera of the Pisidiidae were distinguished: *Europisidium tenuilineatum* (Stelfox, 1918), *Pisidium amnicum* (Müller, 1774) and *P. decurtatum* Lindholm, 1909. Thirty five species in 11 genera of the Euglesidae were represented: *Cingulipisidium*, *Conventus*, *Cyclocalyx*, *Euglesa*, *Henslowiana*, *Hiberneuglesa*, *Pseudeupera*, *Pseudosphaerium*, *Pulchelleuglesa*, *Roseana* and *Tetragonocyclas*.

Majority of bivalve species (75 %) are distributed in Palaearctic Region, while the other species have broad Holarctic distribution (19 %).

This study was supported by "Azas" State Nature Reserve (I.V. Demkin). This work was partly funded by grant № 15-I-6-011-o (Principal Investigator Dr. V.V. Bogatov).

Key words: *aquatic mollusks, Upper Yenisei River, gastropods, bivalves*

PROGRAM
3rd INTERNATIONAL SYMPOSIUM OF
BENTHOLOGICAL SOCIETY OF ASIA

Vladivostok, Russian Federation
August 24–27, 2016

ПРОГРАММА
3-ГО МЕЖДУНАРОДНОГО СИМПОЗИУМА
БЕНТОЛОГИЧЕСКОГО ОБЩЕСТВА АЗИИ

Владивосток, Россия
24–27 августа 2016

Утверждено к печати Оргкомитетом симпозиума
Издание осуществлено при финансовой поддержке
Федерального агентства научных организаций России,
Российского Фонда Фундаментальных Исследований (РФФИ)

Отпечатано с оригинал-макета, изготовленного
в Биолого-почвенном институте ДВО РАН

Оригинал-макет подготовлен: Вшивкова Т.С., Саенко Е.М., Никулина Т.В.

Фотография на обложке: Н.В. Курзенко
Photo on the cover by N.V. Kurzenko

Логотип симпозиума: Никулина Т.В., Саенко Е.М., Ерошенко Т.А.

Подписано к печати 08.08.2016 г.
Печать офсетная. Формат 70х90/16.
Усл. п. л. 0,75. Тираж 300 экз.

Отпечатано в типографии ОО «Литера V»
690091, г. Владивосток, ул. Светланская, 31В