THE MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION TOMSK STATE UNIVERSITY

FUNDAMENTAL AND APPLIED RESEARCHES, EDUCATIONAL TRADITIONS IN ZOOLOGY

Materials of international scientific conference dedicated to the 135 th anniversary of Tomsk State University, 125 th anniversary of Department of Vertebrate Zoology and Ecology and Zoological Museum, 20th anniversary of Research Laboratory of Bioindication and Environmental Monitoring of National Research Tomsk State University, 14–18 October 2013

Tomsk
Publishing House Tomsk State University
2013

UDK 597/599 BBK 28.6 F947

Fundamental and applied researches, educational traditions

F947 in zoology: materials of International scientific conference dedicated to the 135-th anniversary of Tomsk State University, 125-th anniversary of Department of Vertebrate Zoology and Ecology and Zoological Museum, 20th anniversary of Research Laboratory of Bioindication and Environmental Monitoring of National Research Tomsk State University / ed. N.S. Moskvitina. – Tomsk: Publishing House Tomsk State University, 2013. – 248 p.

ISBN 978-5-9462-1419-3

The present issue includes materials of modern state of some zoology problems. The reports are devoted to fauna, ecology, morphology, systematics, phylogeography of terrestrial vertebrates. Problems of exploitation and conservation of animal world, modern views on infection focus functioning and methods and traditions of zoology and ecology training are discussed.

For students and professors of biological colleges of universities and specialists concerning to problems of environmental management and conservation.

> UDK 597/599 BBK 28.6

Editor - professor, D. Sc. N.S. Moskvitina

The conference was supported by RFFR grant № 13-04-06105

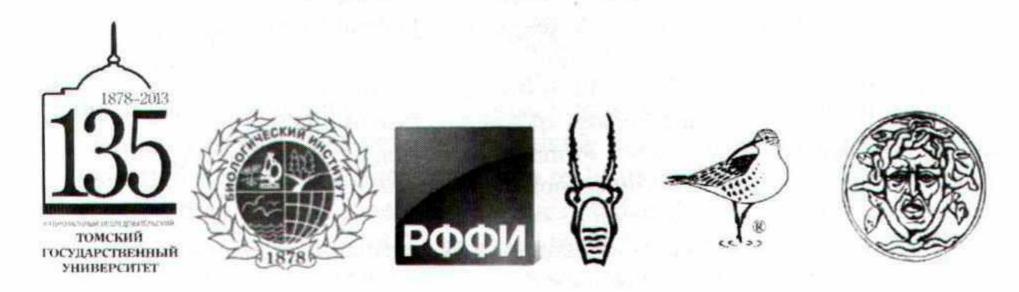
Translation to English is made by PhD M.M. Samsonova

ISBN 978-5-9462-1419-3

© Tomsk State University, 2013

© Authors of the articles, 2013

ORGANIZERS:



NATIONAL RESEARCH TOMSK STATE UNIVERSITY BIOLOGICAL INSTITUTE OF TSU RUSSIAN FOND FUNDAMENTAL RESEARCHES THERIOLOGICAL SOCIETY OF RUSSIAN ACADEMY OF SCIENCES

RUSSIAN BIRD CONSERVATION UNION NIKOLSKY'S HERPETOLOGICAL SOCIETY OF RUSSIAN ACADEMY OF SCIENCES

ORGANIZING COMMITTEE

Chairman:

Georgy V. Meyer

Rector of Tomsk State University, D.Sc., Professor

Co-Chairs:

Nina S. Moskvitina

D.Sc., Professor (TSU)

Alexander M. Adam

- D.Sc., Professor (TSU)

Mikhail P. Moshkin

- D.Sc., Professor (Institute of Cytology and Genetics

SB RAS, Novosibirsk, TSU)

Members of the committee:

Vladimir N. Bolshakov – Academician of Russian Academy of Sciences

(Institute of Plant and Animal Ecology, Ural Branch

of Russian Academy of Sciences, Moscow)

Emilia I. Vorobyova – Academician of Russian Academy of Sciences

(Institute of Ecology and Evolution, Russian Academy

of Sciences, Moscow)

Viacheslav V. Rozhnov - Corresponding Member of Russian Academy

of Sciences (Institute of Ecology and Evolution,

Russian Academy of Sciences, Moscow)

Ernest V. Ivanter – Corresponding Member of the Russian Academy

of Sciences (Petrozavodsk State University, Petrozavodsk)

Turi S. Ravkin — D. Sc., Professor (Institute of Systematics

and Ecology of Animals, Novosibirsk, TSU)

Sergei P. Kulizhsky – Director of Biological Institute, D. Sc., Professor (TSU)

Vladimir L. Vershinin – D. Sc., Professor (Ural Federal University,

Yekaterinburg)

Victor V. Glupov – D. Sc., Professor (Institute of Systematics

and Ecology of Animals, Novosibirsk)

Valery B. Loktev – D. Sc., Professor (Research Center of Virology

and Biotechnology «Vector», Koltsovo,

Novosibirsk Region)

Yuri N. Litvinov - D. Sc. (Institute of Systematics and Ecology of Animals,

Novosibirsk)

Marina V. Kholodova - D. Sc., Professor (Institute of Ecology and Evolution,

Russian Academy of Sciences, Moscow)

Alexander I. Koshelev – D. Sc., Professor (Melitopol State Pedagogical

University, Melitopol, Ukraine)

Sergei S. Moskvitin - Associate Professor, Head. Zoological Museum of TSU

Boris D. Kuranov – D. Sc., Professor (TSU)

Aleksandr A. Ananin – D. Sc., (FGBU «Zapovednoe Podlemorye», Ulan-Ude)

Vadim M. Efimov — D. Sc., Professor (Institute of Cytology and Genetics SB RAS, Novosibirsk, TSU)

Secretariat:

Igor G. Korobitsyn - Ph.D., associate professor

Natalia P. Bolshakova - Ph.D., research associate of RLBEM

Vadim V. Yartsev – graduate, junior researcher of RLBEM

The Working Group:

Lyudmila P. Agulova — D.Sc., professor

Olga B. Vaishlya – Ph.D., associate professor

Sergei I. Gashkov – Ph.D., associate professor

Larisa B. Kravchenko – Ph.D., associate professor

Valentina N. Kuranova - Ph.D., associate professor

Dmitry V. Kurbatsky – research associate of RLBEM

Nelya G. Suchkova – Ph.D., associate professor

Oleg Yu. Tyutenkov - research associate of RLBEM

Paul G. Vlasenko – undergraduate

Alexander V. Zhigalin – undergraduate

Monitoring on the International IBAs in Altaisky Nature Reserve

O.B. MITROFANOV

Altaisky State Nature Biosphere Reserve (Gorno-Altaisk, Russia)
agpzmain@mail.ru, agpz.ranger@yandex.ru

In Altaisky Nature Reserve four International Important Bird Areas (IBAs) were singled out: "Massif Kurkure", "Teletskoye lake", "Julukul hollow", and "Ridge Shapshal", with the total square of 430 137 ha.

"Massif Kurkure" is inhabited by the unique population of Altai snow-cock (*Tetraogallus altaicus*), which nests at Tchulyshman river valley at the altitude below 700 m above sea level [Maleshin, Stakheev, 1986; Mitrofanov, 1995; 1998]. Monitoring was conducted in 2007–2008; new breeding bird species were found: horned grebe (*Podiceps auritus*) and mongolian finch (*Bucanetes mongolicus*). Mongolian finch was registered at the territory of Altaisky Nature Reserve for the first time. White-tailed eagle at its breeding period (*Haliaeetus albicilla*) was noted. The total of 116 breeding bird species of taiga biomes and Eurasian high mountains were found, 64 of them winter at the Reserve.

"Teletskoye lake": monitoring is conducted every year from 1999; 136 breeding bird species of taiga biome were registered, among them 73 winter here. Teletskoye lake is the only place for the mass nesting of osprey (*Pandion haliaetus*) in Altai Republic. In recent years the single individuals of whooper swan (*Cygnus cygnus*) and white-tailed eagle (*Haliaeetus albicilla*) wintered on this lake.

"Julukul hollow": monitoring research was conducted in 2004 and from 2010 to 2012; 90 breeding bird species of Eurasian high mountains biome were registered, 14 of them winter here. Julukul hollow is the only place for the nesting of white-tailed eagle (*Haliaeetus albicilla*) and great cormorant (*Phalacrocorax carbo*) in Altai Republic. A major breeding population of whooper swan is situated at Julukul hollow in Altai Republic (8–14 pairs). Monitoring observations allowed us to find new breeding species for the IBAs: steppe eagle (*Aquila nipalensis*) and horned lark (*Eremophila alpestris*), as well as to note a decrease in the number of breeding pairs of great cormorant from 125 pairs in 1999 to 8 in 2012.