

ALIEN SPECIES OF ANIMALS,
FUNGI AND PLANTS
IN BELARUS
AND NEIGHBORING COUNTRIES



Book of Abstracts
of the 1st International Scientific Conference

Minsk
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March 23, 2021



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The materials are intended for researchers, university lecturers, graduate students, and students of specialized educational fields. The authors of each paper are solely responsible for the accuracy of the information presented, correctness of the citation sources, statistical, personal and other data given in the articles.

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Contents

ORGANIZING, SCIENTIFIC AND PROGRAM COMMITTEES	7
CONFERENCE PROGRAMME	9
Section 1. Invasive And Alien Animal Species	10
THE PRESENCE OF <i>OTIORHYNCHUS ARMADILLO</i> (ROSSI, 1792) (COLEOPTERA: CURCULIONIDAE: ENTIMINAE) IN NORTH POLAND <i>O. Aleksandrowicz, M. Wanat</i>	11
INFLUENCE OF ALIEN SPECIES ON THE AVIFAUNA OF THE REPUBLIC OF BELARUS <i>M. A. Bogachova, A. V. Khandogiy</i>	12
ON THE NORTH-EASTERN INVASIVE RANGE LIMIT OF <i>AGRILUS PLANIPENNIS</i> (COLEOPTERA: BUPRESTIDAE) IN THE EUROPEAN RUSSIA <i>A. A. Egorov, A. N. Afonin, D. L. Musolin, A. V. Selikhovkin, E. A. Milyutina</i>	14
ALIEN SPECIES OF EARTHWORMS IN THE ECOSYSTEMS OF THE URALS <i>E. V. Golovanova</i>	16
DYNAMICS OF ABUDANCE AND BIOMASS OF <i>OITHONA DAVISAE</i> (FERRARI F.D. & ORSI, 1984) IN THE DANUBE REGION OF THE BLACK SEA IN 2016-2019 <i>Yu. V. Kharytonova, V. G. Dyadichko</i>	18
USING DIFFERENT METHODS FOR THE CONTROL OF INVASIVE PHYTOPHAGES IN THE BREST REGION <i>A. P. Kolbas, A. V. Sinchuk, N. V. Sinchuk</i>	20
ALIEN SPECIES OF SUCKING INSECTS DAMAGING LARCH (<i>LARIX MILL.</i>) IN BELARUS <i>Ya. V. Kovalev, F. G. Yakovchik, S. V. Buga</i>	21
INVASIVE SPECIES OF TERRESTRIAL WOODLICE IN EUROPE. PROSPECTS FOR RESEARCHING WOODLICE IN BELARUS <i>M. A. Logachev, A. V. Sinchuk</i>	23
INVASIVE SPECIES OF TRUE BUGS (HEMIPTERA: HETEROPTERA) ON THE TERRITORY OF BELARUS <i>A. O. Lukashuk</i>	25
INVASIVE SPECIES OF PHYTOPHAGES IN GRODNO (BELARUS) <i>M. A. Melenec, A. V. Ryzhaya</i>	27
GIS MODELING AND STUDY OF THE INFLUENCE OF INVASIVE MAMMALIAN SPECIES' DISTRIBUTION ON EUROPEAN POND TURTLE <i>O. D. Nekrasova, M. Pupins, O. Yu. Marushchak, V. M. Tytar, A. Čeirān, A. Skute</i>	28
FIRST RECORD OF ALIEN SPECIES <i>CHYMOMYZA AMOENA</i> (LOEW 1862) (DIPTERA: DROSOPHILIDAE) IN BELARUS <i>A. M. Ostrovsky</i>	30
RISK ASSESSMENT AFTER THE HARMONIA+ PROTOCOL OF INVASIVE ALIEN GALL-FORMING ARTHROPOD SPECIES IN BELARUS <i>D. L. Petrov, F. V. Sautkin, S. V. Buga</i>	32
zebra mussel IN NATURAL ECOSYSTEMS OF BELARUS <i>E. G. Pinchuk, A. V. Khandohiy</i>	34
ALIEN INSECT SPECIES ESTABLISHED IN LITHUANIA IN THE LAST TWO DECADES <i>J. Rimšaitė, P. Ivinskis</i>	36
ALIEN SPECIES OF HYDROPHILIDAE (INSECTA: COLEOPTERA) IN THE BELARUSSIAN FAUNA <i>S. K. Ryndevich</i>	38

BLACK LOCUST APHID, <i>APPENDISETA ROBINIAE</i> : FURTHER EXPANSION IN CENTRAL AND EASTERN EUROPE	
<i>F. V. Sautkin, S. V. Buga, A. V. Stekolshchikov</i>	40
NEW DATA ON THE DISTRIBUTION OF <i>CALOPTILIA ROSCIPENNELLA</i> IN BELARUS	
<i>A. V. Sinchuk, N. V. Sinchuk, S. V. Baryshnikova</i>	42
NEW DATA ON HARLEQUIN LADYBIRD <i>HARMONIA AXYRIDIS</i> (PALLAS, 1773) (COLEOPTERA, COCCINELLIDAE) DISTRIBUTION IN BELARUS	
<i>I. A. Solodovnikov, V. M. Kotsur, Ye. A. Derzhinsky</i>	43
MOLECULAR KEYS FOR THE IDENTIFICATION OF APHIS SPECIES ASSOCIATED WITH APPLE TREES IN BELARUS	
<i>M. M. Varabyova, N. V. Voronova, D. G. Zhorov</i>	45
INVASIVE DENDROPHILOUS AGROMYZIDAE SPECIES IN THE FAUNA OF BELARUS	
<i>M. V. Lazarenko</i>	46
 Section 2. Invasive And Alien Plant Species	48
TODAY AND TOMORROW OF <i>IMPATIENS</i> INVASIONS IN RUSSIA	
<i>W. Adamowski, A. Ebel, A. Seregin, A. Zernov</i>	49
GROWING THREAD OF INVASIVE MACROPHYTES IN POLAND: THE CASE OF <i>ELODEA NUTTALLII</i>	
<i>M. Draga, M. Gąbka, D. Lisek, S. Rosadziński, Ł. Bryl</i>	53
NATIVE AND ADVENTIVE STATUS OF SOME ROSES (<i>ROSA</i>) AND HAWTHORNS (<i>CRATAEGUS</i>) IN THE FLORA OF BELARUS	
<i>D. V. Dubovik</i>	54
PUTATIVE HYBRID BETWEEN NORTH AMERICAN SPECIES OF <i>ASCLEPIAS</i> (APOCYNACEAE, ASCLEPIADOIDEAE) IN BELARUS	
<i>M. A. Dzhus</i>	56
NORTH AMERICAN TREES AND SHRUBS IN THE GREEN SPACES OF SURGUT (NORTH OF WESTERN SIBERIA)	
<i>A. A. Egorov, G. M. Kukurichkin</i>	58
ADVENTIVE PLANTS SPECIES IN THE FLORA OF DROHOBYCH	
<i>N. P. Halytska</i>	60
DISTRIBUTION OF ALIEN SPECIES <i>AILANTHUS ALTISSIMA</i> (MILL.) SWINGLE AND <i>AMBROSIA ARTEMISIIFOLIA</i> L. IN CRIMEA	
<i>E. S. Kashirina, S. A. Svirin, E. I. Golubeva</i>	61
THE INVASION OF INTERSPECIFIC HYBRIDS OF THE GENUS <i>HERACLEUM</i> AT the SCIENTIFIC-EXPERIMENTAL STATION “OTRADNOYE” BIN RAS AND HIS COMPETITION WITH FEED CEREALS	
<i>A. G. Khmarik, A. N. Khmarik</i>	63
INFLUENCE OF ACER NEGUNDO INVASION ON THE SPECIES DIVERSITY OF PLANT COMMUNITIES IN THE FLOODPLAIN OF THE STEPNOI ZAI RIVER (TATARSTAN, RUSSIA)	
<i>M. V. Kozhevnikova, V. E. Prokhorov</i>	65
A REVIEW OF RESEARCH ON ALIEN PLANTS IN UZBEKISTAN	
<i>T. Kh. Makhkamov, N. Yu. Beshko, A. D. Gaziev</i>	67
ALIEN SPECIES OF PLANTS IN THE FLORA OF THE PRIPYAT POLESYE (BELARUS) AND THEIR INVASIVE POTENTIAL	
<i>A. M. Mialik</i>	69
MODERN TRENDS OF INVASION OF INTRODUCED PLANTS IN THE REGIONS OF BELARUS	
<i>M. M. Motyl</i>	71

SOME IMPORTANT PARAMETERS OF <i>SOLIDAGO CANADENSIS</i> L. IN MODEL POPULATIONS IN UKRAINIAN POLESIE <i>A. A. Orlov, A. I. Ishchuk</i>	73
DISTRIBUTION PROPERTIES OF THE SPECIES OF <i>IRIS</i> L. GENUS (<i>IRIS</i> L., IRIDACEAE JUSS.) IN UZBEKISTAN <i>E. A. Ortikov, D. E. Turdiev</i>	75
VASCULAR PLANTS – TRANSFORMERS OF THE OMSK OBLAST <i>N. V. Plikina, A. N. Efremov</i>	77
PREDICTIVE MODELING OF <i>HERACLEUM SOSNOWSKYI</i> MANDEN. DISTRIBUTION IN THE VOLGA-KAMA REGION IN A CHANGING CLIMATE <i>V. E. Prokhorov</i>	79
iNATURALIST VS. PL@NTNET: ACCELERATING DATA COLLECTING ON ALIEN PLANTS OF RUSSIA IN REAL-TIME MODE <i>A. P. Seregin</i>	81
THE COMPOSITION OF INVASIVE PLANTS IN URBANIZED TERRITORIES ON THE EXAMPLE OF THE RECREATIONAL ZONE OF BREST <i>N. V. Shkuratova</i>	83
INVASIVE PLANTS OF THE BELARUSIAN-LITHUANIAN BORDER <i>O. V. Sozinov, V. A. Sipach</i>	85
CRYPTIC INVASION OR NATIVE SPECIATION? THE CASE OF PHRAGMITES IN BELARUS <i>V. N. Tikhomirov, Z. E. Grushetskaya, O. V. Dzyuban</i>	87
THE FIRST FINDING OF <i>SPERMOTHAMNION STRICTUM</i> (RHODOPHYTA) AT ZERNOV’S PHYLLOPHORA FIELD (BLACK SEA, UKRAINE) <i>I. P. Tretiak</i>	90
<i>HALOSIPHON TOMENTOSUS</i> (OCHROPHYTA) IN THE DNIESTER REGION OF THE BLACK SEA <i>I. P. Tretiak</i>	92
THE FIRST CASE OF ALIEN RED ALGAE <i>CHONDRIA CAPILLARIS</i> IN ODESSA BAY <i>I.P. Tretiak</i>	94
Section 3. Invasive and alien fungi species.....	95
RECORDS OF THE DOTHISTROMA NEEDLE BLIGHT PATHOGENS IN BELARUS <i>N. G. Dishuk, L. A. Golovchenko, S. V. Panteleev, O. Yu. Baranov</i>	96
THE OCCURENCE OF INVASIVE FUNGI <i>ERYSIPHE FLEXUOSA</i> AND <i>PHYLLOSTICTA PAVIA</i> ON THE HORSE CHESTNUT IN THE REPUBLIC OF BELARUS <i>V. A. Timofeeva, I. I. Butko</i>	98
Section 4. Ecology of invasive and alien species.....	100
ECOLOGICAL STRUCTURE OF PHYTOPHAGES-INVADERS COMPLEXES IN URBAN GREEN PLANTS OF THE GRODNO NEMAN RIVER REGION (BELARUS) <i>E. I. Hliakouskaya, A. V. Ryzhaya</i>	101
TAXONOMIC COMPOSITION OF APOIDEA VISITORS OF <i>SOLIDAGO</i> INFLORESCENCES IN DIFFERENT BIOTOPES IN MINSK <i>D. O. Koroteeva</i>	103
SIZE STRUCTURE OF THE <i>DREISSENA POLYMORPHA</i> POPULATION OF LAKE MYASTRO <i>D. V. Kruk, H. A. Zhukava, B. V. Adamovich</i>	105
ASSESSMENT OF THE DAMAGE TO LEAF BLADES BY <i>PARECTOPIA ROBINIELLA</i> LARVAE IN THE BREST REGION <i>A. V. Sinchuk, N. V. Sinchuk</i>	109

FIRST EVIDENCE OF <i>PLANKTOTHRIX AGARDHII</i> (CYANOPROKARYOTA) IN THE UKRAINIAN MARINE COASTAL WATER	
<i>G. Terenko, K. Hushchyna</i>	110
MODELLING THE RANGE EXPANSION OF PUMPKINSEED <i>LEPOMIS GIBBOSUS</i> ACROSS EUROPE, WITH SPECIAL FOCUS ON LATVIA AND UKRAINE	
<i>V. Tytar, O. Nekrasova, M. Pupins, A. Čeirāns, A. Skute</i>	112
POSSIBLE CONSEQUENCES OF THE INVASION OF THE ALIEN MOLLUSK <i>ARCUATULA SENHOUSIA</i> (BIVALVIA, MYTILIDAE) IN THE BLACK SEA	
<i>A. Yu. Varigin</i>	114
Journal of the Belarusian State University. Biology.....	116
Russian Journal of Biological Invasions.....	117

NORTH AMERICAN TREES AND SHRUBS IN THE GREEN SPACES OF SURGUT (NORTH OF WESTERN SIBERIA)

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Introduction. The city of Surgut is located in the middle taiga in the north of Western Siberia. The conditions for the existence of plants are quite inclement here. Surgut is the largest city in the Khanty-Mansi Autonomous Region, and sufficient attention is paid to the creation and maintenance of green spaces in good condition. Information about introduced plants in the settlements located in the Far North is quite poor. However, knowledge of their composition and condition allows us to develop a sustainable and effective assortment for gardening in inclement conditions and to gain new knowledge about alien species. The study of the state of trees and shrubs in green spaces is part of a comprehensive study on the development of a sustainable assortment for landscaping in the north of Western Siberia (Egorov et al., 2019). This report presents an assessment of the diversity and status of North American tree and shrub species in the green stands of Surgut.

Materials and methods. The materials for the analysis were data on the composition of introduced trees and shrubs in the green areas of Surgut (Kukurichkin et al., 2014), as well as data from field surveys since 2015 of the green areas of the city. During evaluation the condition of plants, a winter hardiness scale was used, reflecting the frequency of freezing. We also took into account such indicators as the height of the plant and the form of growth (tree or shrub), the occurrence in the green spaces of Surgut. Special attention was paid to the self-seeding of the introduced species, that shows a certain degree of naturalization.

Results. In the green stands of Surgut, 12 species of trees and shrubs naturally growing in North America were identified, including 4 species of trees (for example, *Acer negundo*, *Populus balsamifera*, etc.) and 8 shrubs (for example, *Amelanchier alnifolia*, *Symphoricarpos rivularis*, etc.). It should be noted that such a species as *Padus virginiana*, that grows in the form of a tree in its natural range, in the conditions of Surgut grows in the form of bush up to 3 m high. The other species retained their life forms. The tallest North American introduced tree species is *P. balsamifera* (up to 20 m tall), followed by *A. negundo* (up to 8 m), the others are below 2.5 m. The shrubs are up to 3 m tall. *P. balsamifera*, *Amelanchier spicata*, *P. virginiana*, and *Physocarpus opulifolius* are common North American species found in the city's green spaces. Other species are rare. Of the 12 North American introduced plants, 5 species showed resistance to winter conditions: *A. alnifolia*, *Ph. opulifolius*, *P. balsamifera*, etc. Naturalization (ornithochoria) has been observed in one species – *A. alnifolia*.

Conclusion. The survey of green stands in the Far North provided important information about the composition and condition of plants for the purposes of their introduction, identification of alien flora and the degree of its naturalization.

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И РАСТЕНИЙ В БЕЛАРУСИ
И СОПРЕДЕЛЬНЫХ СТРАНАХ**

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