



7th ESENIAS Workshop with Scientific Conference

*Networking and Regional Cooperation
Towards Invasive Alien Species Prevention
and Management in Europe*

28–30 March 2017
SOFIA, BULGARIA

Book of Abstracts

Sofia, Bulgaria
2017

The Conference was organised by:

Institute of Biodiversity and Ecosystem Research,
Bulgarian Academy of Sciences **(IBER-BAS)**
East and South European Network for Invasive Alien Species **(ESENIAS)**
Danube Region Invasive Alien Species Network **(DIAS)**



The Conference was supported by:

Financial Mechanism of the European Economic Area 2009-2014
Programme BG03 Biodiversity and Ecosystem Services
ESENIAS-TOOLS Project, D-33-51/30.06.2015



Bulgarian Science Fund, Project DPMNF 01/8/ 21.03.2017



7th ESENIAS Workshop with Scientific Conference

***Networking and Regional Cooperation Towards
Invasive Alien Species Prevention and Management
in Europe***

28-30 March 2017

Sofia, Bulgaria

Book of Abstracts

**Institute of Biodiversity and Ecosystem Research
Bulgarian Academy of Sciences**

**East and South European Network for Invasive
Alien Species (ESENIAS)**

**Sofia, Bulgaria
2017**

7th ESENIAS Workshop with Scientific Conference

Networking and Regional Cooperation Towards Invasive Alien Species Prevention and Management in Europe

Book of Abstracts

Editors:

**Teodora Trichkova, Rumen Tomov, Vladimir Vladimirov
Hristina Kalcheva, Yuriy Vanev, Ahmet Uludağ,
Violeta Tyufekchieva**

Reviews were made by the Members of the Scientific Committee

Citation:

Trichkova T., R. Tomov, V. Vladimirov, H. Kalcheva, Y. Vanev, A. Uludağ, V. Tyufekchieva (Eds.) 2017. Book of Abstracts, 7th ESENIAS Workshop with Scientific Conference 'Networking and Regional Cooperation Towards Invasive Alien Species Prevention and Management in Europe', 28–30 March 2017, IBER-BAS, ESENIAS, Sofia, Bulgaria, 168 pp.

ISBN 978-954-9746-42-6

Publisher: Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences (IBER-BAS); East and South European Network for Invasive Alien Species (ESENIAS)

Photos: Teodora Trichkova, Rumen Tomov, Vladimir Vladimirov, Milcho Todorov, Radim Blažek, Lyubomir Andreev

Photo processing: Lyubomir Andreev

Graphic design and desktop publishing: Rositsa Kaneva, Lyubomir Andreev

Acknowledgements to the ESENIAS Organising and Scientific Committees:

Organising Committee

Teodora Trichkova (chair)
Anna Ganeva, IBER-BAS
Rumen Tomov, IBER-BAS
Vladimir Vladimirov, IBER-BAS
Violeta Tyufekchieva, IBER-BAS
Hristina Kalcheva, IBER-BAS
Yanka Vidinova, IBER-BAS
Mihaela Beshkova, IBER-BAS
Alice Cardeccia, IBER-BAS
Ivan Botev, IBER-BAS
Radoslav Stanchev, ExEA, ESENIAS
Ahmet Uludağ, ESENIAS
Milica Rat, ESENIAS
Barbara Stammel, DIAS
Florian Ballnus, DIAS
Csaba Csuzdi, DIAS

Scientific Committee

Teodora Trichkova, Bulgaria (chair)	Milcho Todorov, Bulgaria
Ahmet Uludağ, Turkey	Milica Rat, Serbia
Aljoša Duplić, Croatia	Milka Glavendekić, Serbia
Ana Petrova, Bulgaria	Momir Paunović, Serbia
Angela Bănăduc, Romania	Necmi Aksoy, Turkey
Argyro Zenetos, Greece	Riccardo Scalera, Italy
Borys Aleksandrov, Ukraine	Richard Lansdown, UK
Cvetomir Denchev, Bulgaria	Rumen Kalchev, Bulgaria
Dan Cogălniceanu, Romania	Rumen Tomov, Bulgaria
David Finger, Iceland	Sanja Radonjić, Montenegro
Dinka Matosevich, Croatia	Sasho Trajanovski, FYR Macedonia
Doru Bănăduc, Romania	Stelios Katsanevakis, Greece
F. Güler Ekmekçi, Turkey	Vladimir Vladimirov, Bulgaria
Gábor Guti, Hungary	Vlado Matevski, FYR Macedonia
Giuseppe Brundu, Italy	Yuriy Kvach, Ukraine
Harald Kutzenberger, Austria	Zdravko Hubenov, Bulgaria

Contents

CONFERENCE PROGRAMME	11
KEYNOTE PRESENTATIONS	23
Adkins S., A. A. Bajwa, B. Shi - The global threat from <i>Parthenium hysterophorus</i> L.: A warning from 'down under'.....	24
Anastasiu P., L. Rozyłowicz, C. Preda, D. Bănăduc, D. Cogălniceanu - Invasive alien species of Union concern in Romania.....	25
Bacher S. - Comparing impacts of alien species: why and how?.....	26
Gervasini E., A. C. Cardoso, K. Tsiamis, F. D'Amico, I. Deriu, I. Matei - European Alien Species Information Network (EASIN): Supporting scientific research and European policies on biodiversity.....	27
Gorner T. - Current state of NOBANIS project.....	28
Gorner T. - Invasive species in the Czech Republic.....	29
Orlinski A. D. - Pest Risk Analysis, phytosanitary measures against invasive alien species and the role of biological control.....	30
Trichkova T., R. Tomov, A. Uludağ, V. Vladimirov, F. Ballnus, H. Kutzenberger, G. Gutí, C. Csuzdi - Invasive alien species networking and regional cooperation in Europe: ESENIAS and DIAS; The role of ESENIAS-TOOLS project.....	31
Trichkova T., M. Todorov, K. Ignatov, I. Botev, M. Paunović, D. Cogălniceanu - Pilot-study on invasive alien species in the Danube Region with a smartphone application developed by the EC JRC.....	32
Zenetos A. - Who is who among marine alien species in the ESENIAS region.....	33
PRESENTATIONS	34
TOPIC 1: INVASIVE ALIEN SPECIES TRAITS AND TRENDS	
Aksoy N., A. Uludağ - Alien flora of Düzce Province, Turkey.....	35
Arslan N., C. Akkan-Kökcü, D. Mercan, D. A. Odabaşı - Non-indigenous and Ponto-Caspian limnofauna (Gastropoda and Clitellata) of Lake Sapanca, Turkey.....	36
Arslan N., S. Kökmen-Aras, D. Mercan - An indigenous species, <i>Dreissena polymorpha</i> , in Lake Büyük Akgöl as an invader.....	37
Curtean-Bănăduc A., T. Trichkova, D. Bănăduc - Trophic features related to the explosive spread of the invasive alien species <i>Pseudorasbora parva</i> (Schlegel, 1842) in the Romanian-Danubian basin.....	38
Farooq S., H. Onen, C. Ozaslan - Deficit distribution data on invasive plant species: The untold story of plant invasion in Turkey.....	39
Gençoğlu L., Ş. Gülsün Kırankaya, B. Yoğurtçuoğlu, F. G. Ekmekçi - Feeding properties of translocated marine fish sand smelt, <i>Atherina boyeri</i> Risso, 1810, in a freshwater reservoir.....	40
Glavendekić M. - Expansion of pelargonium butterfly <i>Cacyreus marshalli</i> Butler (Lepidoptera: Lycaenidae) in the Balkan Peninsula.....	41

Gönülal O., M. I. Öz - The alien species in northern Aegean Sea and a new locality of <i>Penaeus aztecus</i> Ives, 1891.....	42
Inghilesi A. F., E. Tricarico - Management of freshwater invasive species in Central Italy: The experience of LIFE and Aquainvad-ED projects.....	43
Innal D. - Parasites of non-indigenous fish species in the inland waters of Turkey.....	44
Innal D., D. Giannetto - Age and growth of the non-indigenous Redbelly tilapia, <i>Coptodon zillii</i> (Cichlidae), in the Pınarbaşı Spring Creek (B Turkey).....	45
İşmen A., İ. B. Daban, M. A. İhsanoğlu - Recent status of invasive fish species in the North Aegean Sea.....	46
Jogan N. - Could we analyse the IAS spread dynamics patterns from the available data?...47	
Jónsson I. R., G. S. Jónsson, J. S. Ólafsson, S. M. Einarsson, T. Antonsson - The colonising pattern of the diatom <i>Didymosphenia geminata</i> in Iceland.....	48
Kalinić A., D. Obratov-Petković¹, J. Tomićević-Dubljević, V. Stojšić, I. Bjedov - Invasive alien plants as a key threat factor for the floristic diversity in 'Deliblato Sand' Special Nature Reserve.....	49
Kozuharov D., R. Kalchev, M. Beshkova, M. Stanachkova, L. Kenderov, V. Vasilev, T. Trichkova - Presence of the alien species <i>Craspedacusta sowerbii</i> in some Bulgarian reservoirs.....	50
Kvach Y., Y. Kutsokon - The non-indigenous fishes in the fauna of Ukraine: A potentia ad actum.....	51
Nagodă E., P. Comănescu, G. Negrean, S. Lițescu, P. Anastasiu - Is Bucharest a hot spot of alien plant species in Romania?.....	52
Ognjanova-Rumenova N., I. Botev, V. Evtimova, T. Trichkova - Epilithic diatom assemblages from the Seven Rila Lakes, Bulgaria: Long-term dynamics and potential threats.....	53
Ozaslan C., H. Onen, S. Farooq, H. Erdem, S. Tad - Experimental insights for niche expansion potential of Common ragweed.....	54
Öztürk B., B. Bitlis, A. Doğan, N. Türkçü - Contribution to the knowledge of alien marine molluscs along the Turkish coast, with a new record of <i>Varicopeza paxilla</i> (A. Adams, 1855) from the Mediterranean Sea.....	55
Skolka M. - The invasive alien species in Romania: Current status.....	56
Stoumboudi M. Th., R. Barbieri, E. Kalogianni - First report of an established rainbow trout population in Greece.....	57
Tudor M., M. Skolka - Testing the ecological plasticity and invasiveness potential of <i>Neocaridina davidi</i> Kubo, 1938 (Crustacea, Decapoda, Atyidae).....	58
Tunçer S., A. Öktener - First occurrence of <i>Peroderma cylindricum</i> (Heller, 1865) in Turkish waters.....	59
Tunçer S., B. Y. Yakin, K. Çiçek, C. V. Tok - Does Italian wall lizard, <i>Podarcis siculus</i> , expand its distribution to Northeastern Anatolia?.....	60
Tunçer S., M. L. Artüz, U. Önal, C. Funda, U. Uyan - <i>Thysanozoon brocchii</i> (Risso, 1818) (Platyhelminthes: Polycladida): First record for Turkish coastal waters, from the Sea of Marmara.....	61
Uludağ A., N. Aksoy, Z. F. Arslan, A. Yazlık, I. Uremis, E. Yazmış, T. Cossu, Q. Groom, J. Pergl, P. Pyšek, G. Brundu - Alien flora of Turkey: Current list and beyond.....	62
Yoğurtçuoğlu B., F. G. Ekmekçi - Variation in life history and feeding ecology of the invasive Eastern Mosquitofish <i>Gambusia holbrooki</i> in a groundwater-dependent wetland in Turkey.....	63

TOPIC 2: VECTORS AND PATHWAYS FOR INVASIVE ALIEN SPECIES INTRODUCTIONS

- Servello G., F. Crocetta, A. Zenetos** - Non-indigenous species: further findings and range expansion in the Italian marine and brackish waters by 2017.....65
- Tomov R.** - Analysis and management of pathways of introduction and spread of invasive alien species in South-East Europe.....66

TOPIC 3: THE DANUBE RIVER AS INVASIVE ALIEN SPECIES CORRIDOR

- Alexandrov B.** - Recent state of invasive alien species in Ukrainian part of the Danube Delta.....68
- Cardeccia A., Z. Hubenov, M. Todorov, I. Botev, D. Kozuharov, L. Kenderov, T. Trichkova** - *Dreissena polymorpha* in the Bulgarian inland water bodies, population structure and relation to environmental parameters.....69
- Guti G.** - Alien fish species in the Hungarian section of the Danube River: Historical overview.....70
- Piria M., Z. Marčić, G. Jakšić, S. Horvatić, D. Zanella** - Has the racer goby *Babka gymnotrachelus* (Kessler, 1857) failed to invade the Croatian tributaries of the Danube River?.....71

TOPIC 4: INVASIVE ALIEN SPECIES IMPACT

- Ciceoi R., M. Dumbrava, I. O. Jerca, I. Dobrin** - Qualitative and quantitative analysis of the damages on maize produced by the invasive stink bugs *Halyomorpha halys* and *Nezara viridula*.....73
- Hrnčić S., S. Radonjić, T. Perović** - An impact of alien horticultural pests on urban landscape in the southern part of Montenegro.....74
- Oymak S., B. Büyüç, H. Coban, M. Otkun** - Settlement and reproduction of parrots in Istanbul and health implications.....75
- Oymak S., M. M. Hız, B. Büyüç** - Exotic animal and plant trade as pathway for introduction of invading alien species and threat to public health.....76
- Radonjić S., S. Hrnčić** - New alien arthropod pests on agricultural crops in Montenegro...77
- Sağlam H., E. Düzgüneş** - Pros and cons of the invasive Rapa whelk in the Black Sea region of Turkey.....78

TOPIC 5: INVASIVE ALIEN SPECIES PREVENTION AND MANAGEMENT

- Arslan Z. F., A. Uludağ, H. Kutuk, K. Jabran** - Insects may act as potential biological control agents for alien ornamental plants in Turkey.....80
- Düzgüneş E., H. Sağlam** - The management of Rapa whelk harvesting in Turkey.....81
- Finger D. C., I. R. Jónsson, V. Cypaitė, N. Ognjanova-Rumenova, J. S. Ólafsson, V. Evtimova, T. Trichkova** - Monitoring of the diatom *Didymosphenia geminata* in the subarctic and in alpine areas of southern Europe.....82
- Giovas I., N. Doumpas, I. Ioannou, G. Sarafidou, D. Marmara, V. Paravas** - 'Is Alien to you...Share it!!!' A Citizen Science Project on alien species in Greece.....83

Glavendekić M., D. Mandić - Monitoring of <i>Cydalima perspectalis</i> (Walker) (Lepidoptera: Crambidae) supported by Education and Citizen Science.....	84
Inghilesi A. F., E. Tricarico - LIFE ASAP 'Alien Species Awareness Program': Tackling alien species in Italy, <i>As Soon As Possible</i>	85
Karachle P. K., A. Zenetos, N. J. Xentidis - The ESENIAS countries' marine Alien Species experts: an updated inventory.....	86
Kılıç S., M. M. Hiz - Dermatological problems due to invasive alien species in Turkey.....	87
Onen H., S. Farooq, C. Ozaslan - Do management efforts and vegetation succession affect the naturalisation success and vegetation dynamics of Common Ragweed in Turkey?.....	88
Top N., L. Vilizzi, A. S. Tarkan, F. G. Ekmekçi, P. D. Stebbing, G. H. Copp - Identification of invasiveness potential of freshwater fishes in Turkey by the Aquatic Species Invasiveness Screening Kit (AS-ISK).....	89
Toshova T. B., D. I. Velchev, V. D. Abaev, P. K. Kalushkov, E. Orgován, Z. Lohonyai, M. Tóth, S. Koczor - Detection of some Coleoptera species in coloured sticky traps in maize crops in Bulgaria.....	90
Toshova T. B., D. I. Velchev, V. D. Abaev, D. Y. Atanasova, M. Tóth - Detection and monitoring of <i>Diabrotica virgifera virgifera</i> LeConte, 1858, by KLP+ traps with dual (pheromone and floral) lures in Bulgaria.....	91
POSTERS	93

TOPIC 1: INVASIVE ALIEN SPECIES TRAITS AND TRENDS

Aneva I., P. Zhelev, S. Stoyanov - Alien plant species in the periphery of agricultural fields.....	94
Assyov B. - <i>Mycena seynii</i> (Mycenaceae, Agaricales) in Bulgaria.....	95
Baležentienė L. - Ecophysiological adaptation of southern escapes in Lithuania.....	96
Chireceanu C., A. Teodoru, A. Chiriloaie - First record of oak lace bug <i>Corythucha arcuata</i> (Say, 1832) in Romania.....	97
Dulčić J., B. Dragičević, P. Tutman - Status of non-indigenous fish species in the eastern Adriatic Sea: A short review.....	98
Gençoğlu L., Ş. G. Kirankaya, K. Karaçor, M. Çam, F. G. Ekmekçi - Differentiations in kidney histology of invasive freshwater populations of marine fish sand smelt.....	99
Iosif R., D. Cogălniceanu, D. Ureche - Rapid spread of Amur sleeper (<i>Perccottus glenii</i>) in North-Eastern Romania.....	100
Ivanova P. P., A. T. Trayanova, K. B. Stefanova, E. Stefanova, V. S. Raykov, V. G. Doncheva - Recent state of selected alien marine species in Varna Bay, Bulgarian Black Sea coast.....	101
Jakšić T. D., M. M. Smiljić, V. P. Stankov-Jovanović, S. M. Stamenković, O. M. Papović, P. S. Vasić, M. S. Marković - Activity of catalase in invasive plants from tailing pond of the Trepča lead and zinc mine.....	102
Kenderov L., T. Trichkova, K. Žganec - New records of translocated <i>Pontogammarus robustoides</i> (Amphipoda, Peracarida) and <i>Limnomysis benedeni</i> (Mysida) in the Aegean Sea basin in Bulgaria.....	103

Kenderov L., K. Žganec, T. Trichkova - First finding of <i>Dikerogammarus villosus</i> (Amphipoda, Perecarida) in Bulgarian inland waters.....	104
Koshev Y., N. Nedyalkov - Alien mammal species of Bulgaria.....	105
Koshev Y., N. Nedyalkov - Range expansion of three alien mammal species: the coypu (<i>Myocastor coypus</i>), the muskrat (<i>Ondatra zibethicus</i>), and the raccoon dog (<i>Nyctereutes procyonoides</i>) in Bulgaria.....	106
Langourov M., N. Simov - New data on the expansion of Geranium Bronze (Lepidoptera, Lycaenidae) in the eastern part of the Balkan Peninsula, with some biological notes.....	107
Lazarevska S., J. Petrov, M. Postolovski, S. Naceski, V. Krsteska - <i>Ceroplastes japonicus</i> Green: A new pest insect in Republic of Macedonia.....	108
Marković M. S., D. S. Nikolić, V. P. Stankov Jovanović, B. M. Nikolić, S. M. Stamenković, L. B. Rakonjac - Colonising plants in fire-affected habitats in Vidlič Mountain.....	109
Nedyalkov N., Y. Koshev - Natural history of two alien rodents: <i>Rattus rattus</i> and <i>Rattus norvegicus</i> (Muridae, Mammalia) in Bulgaria.....	110
Neimorovets V. V., V. I. Shchurov, A. S. Bondarenko, M. M. Skvortsov, F. V. Konstantinov - First documented outbreak and new data on the distribution of <i>Corythucha arcuata</i> Say (Heteroptera: Tingidae) in Russia.....	111
Nikolov B., B. Simovski, I. Minchev - <i>Ailanthus altissima</i> in the region of Malesh in FYR Macedonia.....	112
Özkan Z. C., S. Akbulut - Biological and ecological traits of some invasive alien plant species in the Black Sea region of Turkey.....	113
Petrov S., G. Petrova, V. Vladimirov - Genetic variability of the alien species <i>Opuntia humifusa</i> (Cactaceae) within its locality in Harmanli District, South Bulgaria.....	114
Petrova A., Z. Barzov - <i>Oenothera laciniata</i> (Onagraceae), a new alien species to the Bulgarian flora.....	115
Petrova A., I. Gerasimova - On a naturalised population of <i>Larix decidua</i> in the Rhodope Mountains, Bulgaria.....	116
Petrova A., V. Vladimirov, A. Tashev - The Maritime pine (<i>Pinus pinaster</i>) – a naturalised alien on the Bulgarian Black Sea Coast with a high impact on the sand dune habitats.....	117
Popova E., D. Zlatanova - An update on the distribution of the alien raccoon dog (<i>Nyctereutes procyonoides</i> , Gray) on the Balkans.....	118
Simov N., D. Gradinarov - New invasive alien assassin bug species (Heteroptera, Reduviidae) for the Balkan Peninsula.....	119
Simov N., S. Grozeva, M. Langourov, G. Georgiev, P. Mirchev, M. Georgieva - New data on the expansion of invasive alien lace bug species (Heteroptera, Tingidae) in the Balkan Peninsula.....	120
Stănescu F., T. Sos, C. Samoilă, D. Cogălniceanu - <i>Trachemys scripta</i> in the East and South European Region. A review of the invasion extent.....	121
Stefanov T., P. Pandakov, T. Trichkova - Recent expansion of the ruffe, <i>Gymnocephalus cernua</i> (Pisces: Percidae) outside its native range in Bulgaria.....	122
Todorov M., A. Cardecchia, Z. Hubenov, L. Kenderov, D. Kozuharov, M. Kenderov, I. Botev, T. Trichkova - Range expansion of alien mussels <i>Corbicula fluminea</i> and <i>Sinanodonta woodiana</i> (Mollusca: Corbiculidae and Unionidae) in Bulgaria.....	123

Tomov R., D. Semerzhiev - Occurrence of the Harlequin ladybird <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae) in the agro-biocenosis of Bulgaria.....	124
Tošić A., V. Nikolić, D. Š. Jurlina, P. Simonović - Revealing introgression of allochthonous brown trout (<i>Salmo cf. trutta</i> L.) in Eastern Serbia populations using molecular markers.....	125
Trajanovski S., T. Trichkova, K. Zdraveski, B. B. Gjoreska, M. Talevska, S. Trajanovska - Alien species in the upper watershed of ancient Lake Ohrid.....	126
Trencheva K. - A review of alien scale insects (Hemiptera: Coccoidea) in Bulgaria.....	127
Tunçer S. - A new finding of the American blue crab, <i>Callinectes sapidus</i> , in the coastal lagoon of Yeniköy Harbour from Çanakale Boğazi (Dardanelles, Turkey).....	128
Tutman P., J. Dulčić, B. Dragičević - The invasive blue crab <i>Callinectes sapidus</i> Rathbun, 1896 (Crustacea: Portunidae): A permanent resident or just provisional visitor across the eastern Adriatic Sea, Croatia?.....	129
Vladimirov V., M. Delcheva - <i>Ammannia coccinea</i> (Lythraceae) – a new alien plant species in Bulgaria.....	130
Yankova-Tsvetkova E., P. Yurukova-Grancharova, V. Vladimirov - On the embryology of two invasive alien species of <i>Solidago</i> (Asteraceae) in Bulgaria.....	131
Zafirov N. G. - Invasive alien pathogenic fungi on coniferous forest tree species in Bulgaria.....	132
Zapparoli M., G. Mazza, A. F. Inghilesi - Alien invertebrates' introductions into Italy: An overview.....	133

TOPIC 2: VECTORS AND PATHWAYS FOR INVASIVE ALIEN SPECIES INTRODUCTIONS

Peneva V., S. Lazarova, M. Elshishka - Alien nematode species in ESENIAS countries....	135
Sağlam H., E. Düzgüneş - Introduction pathways of invasive alien species in the Black Sea coast of Turkey.....	136

TOPIC 3: THE DANUBE RIVER AS INVASIVE ALIEN SPECIES CORRIDOR

Anđelković A., M. Živković, D. Cvijanović, D. Marisavljević, D. Pavlović, S. Radulović - Riparian area of the Danube River (Serbia) as an invasive alien plant species corridor.....	138
Evtimova V., V. Tyufekchieva, G. Georgieva, D. Stoyanova, I. Dedov, M. Kerakova, R. Soufi, S. Stoichev, Y. Vidinova - Importance of river type and presence of non-indigenous species for benthic communities of tributaries of the Lower Danube River.....	139
Georgieva G., Y. Uzunov, M. Ihtimanska, S. Kazakov, P. Ivanov, L. Kenderov, M. Kerakova, E. Varadinova - New data about the distribution of the alien species <i>Branchiura sowerbyi</i> Beddard, 1892 (Oligochaeta: Tubificidae) in Bulgaria.....	140
Skorić S., B. Mičković, D. Nikolić, A. Hegediš, G. Cvijanović - Seasonal weight-length relationship of Amur sleeper (<i>Perccottus glenii</i> Dubowski, 1877) in the Danube River drainage channel.....	141
Uzunova E., K. Ignatov, D. Dashinov, E. Tasheva, T. Trichkova - Morphometric and meristic variations in non-native whitefish <i>Coregonus mareanoides</i> (Polyakov, 1874) from Iskar Reservoir, Danube River basin, Bulgaria.....	142

TOPIC 4: INVASIVE ALIEN SPECIES IMPACT

- Alkan N., H. Sağlam, E. Düzgüneş** - A review of metals in rapa whelk (*Rapana venosa*) in the Black Sea.....144
- Beshkova M., D. Belkinova, R. Kalchev, H. Kalcheva, R. Mladenov, P. Stojanov** - Phytoplankton qualitative and quantitative characteristics: Comparison of Bulgarian reservoirs infested and non-infested by *Dreissena polymorpha* (Mollusca: Bivalvia).....145
- Büyük B., S. Oymak, M. M. Hız, M. Otkun** - Invasive Lessepsian fishes and their public health effects.....146
- Ciceoi R., C. Gutue, M. Gutue, I. Roşca** - The current status of pests associated to urban vegetation in Bucharest area.....147
- Düzgüneş E., H. Sağlam, N. E. Sağlam** - Impacts of the invasive alien species in the Black Sea.....148
- Zdraveski K., T. Trichkova, S. Trajanovski** - Economic impacts of the aquatic invasive alien species within the ESENIAS region: Need for development of cost estimation.....149

TOPIC 5: INVASIVE ALIEN SPECIES PREVENTION AND MANAGEMENT

- Aglietti C., L. Ghelardini, P. Capretti, A. Santini, N. Luchi** - Portable LAMP (Loop mediated isothermal AMPLification): New molecular assays to detect invasive plant pathogens.....151
- Ciceoi R., M. Gutue, E. S. Mardare** - Citizen-generated data on invasive alien pests in Romania: Trends and challenges.....152
- Eschen R., A. Vannini** - Global Warning: A COST Action about tree nurseries as early warning system against alien pests.....153
- Grădilă M.** - Management of some dicotyledonous invasive weeds in rape crops in southern Romania.....154
- Fătu A.-C., A.-M. Andrei** - Laboratory test of three isolates of *Beauveria bassiana* (Bals.) Vuill. against larvae of invasive sawfly *Aproceros leucopoda* Takeuki.....155
- Inghilesi A. F., K. Kazlauskis, S. Vigišová, J. Skuhrovec, H. E. Roy** - Engaging people in biodiversity surveys: Developing a European ladybird mobile app.....156
- Lenhardt M., L. Pekarik, S. Skorić, M. Smederevac-Lalić, A. Hegediš, M. Jaćimović, V. Djikanović** - Influence of the diel period and different sampling methods on catch of gobiids at four locations in the inshore part of the Danube River.....157
- Kozuharova E., A. Matkowski, D. Woźniak, R. Simeonova, Z. Naychov, N. Benbassat, V. Kochmarov, A. G. Atanasov** - 'Invasive alien species' or unlimited resources of plant substances for medicinal use?.....158
- Manole T., C. Chireceanu, A. Teodoru** - The current status of *Diabrotica virgifera virgifera* LeConte in Romania.....159
- Öztekin A., İ. B. Daban** - Determining of the technical properties of trotlines using fisheries of invasive *Atherina boyeri*.....160
- Todorova R.** - Risk management against invasive disease-transmissible mosquitoes in the EU.....161

Seasonal weight-length relationship of Amur sleeper (*Percottus glenii* Dubowski, 1877) in the Danube River drainage channel

Stefan Skorić, Branislav Mićković, Dušan Nikolić, Aleksandar Hegediš, Gorčin Cvijanović

Department of Natural Resources and Environmental Sciences, Institute for Multidisciplinary Research, University of Belgrade, Kneza Višeslava 1a, 11030 Belgrade, Serbia; E-mail: stefan.skoric@imsi.rs

The Amur sleeper (*Percottus glenii*), an indigenous species to the Russian Far East, northern China and the northern part of Korean Peninsula, has been considered an invasive alien species to European waters, where it may have negative impact on eggs and larvae of native fish species, on aquatic macroinvertebrate and larval amphibians. There were a few findings of the Amur sleeper specimens in Serbia during 2001-2003. The first record of established population was from the Danube River flood plain zone (1139 river km) in 2005. Our study includes 85 specimens collected in the Danube River drainage channel near Veliko Gradište (Serbia), in 2015-2016. The body length of specimens range from 35.78 mm to 140.68 mm, while the body weight range from 0.5 g to 40 g. Based on scale analyses, specimens have been determined at age of 0+, 1+ and 2+. The length-weight analysis does not show any differences between the regression slopes of samples from the two seasons.

Key words: Introduced species, *Percottus glenii*, Danube River, age structure, regression coefficient.