



Joint ESENIAS and DIAS Scientific Conference 2022 and 11th ESENIAS Workshop

Invasive alien species under conditions of global crisis

13 – 15 November 2022

Demre, Antalya, Türkiye
In-person and Virtual Format

Organised by:

General Directorate of Fisheries and Aquaculture,
Ministry of Agriculture and Forestry, Türkiye (GDFA)

General Directorate of Agricultural Research and Policies,
Ministry of Agriculture and Forestry, Türkiye

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

Danube Region Invasive Alien Species Network (DIAS)

Mediterranean Fisheries Research, Production and Training Institute,
Ministry of Agriculture and Forestry, Türkiye (MFRPTI)

In cooperation with:

Faculty of Agriculture, Canakkale Onsekiz Mart University, Türkiye

Institute of Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences, Bulgaria
(IBER-BAS)

Faculty of Agriculture, University of Forestry, Bulgaria

Faculty of Science, Hacettepe University, Türkiye

SuEkos, Türkiye

EWRS Invasive Alien Plants Working Group

CONFERENCE PROGRAMME

Zoom Link to attend the Conference (all sessions):
[Please find it at the end of the Programme](#)

13th November 2022

10:00 – 10:30 **Opening**

Chair: Mahir Kanyılmaz

Dr. Teodora Trichkova, IBER-BAS, ESENIAS and DIAS

Prof. Dr. Ahmet Uludağ, COMU, ESENIAS and DIAS

Dr. Mustafa Altuğ Atalay, General Director, GDFA

Session 1

Chairs: F. Güler Ekmekçi, Rumen Tomov

Keynote presentation 1

10:30 – 11:00 **Bayram Öztürk** – Non indigenous marine species in Turkish waters and some considerations

11:00 – 11:15 **Georgios Vagenas, Anthi Oikonomou, Paraskevi K. Karachle** – The fish fauna inhabiting the Mediterranean and Red Sea: a comparative analysis of traits between native and non-indigenous species

11:15 – 11:30 **Aylin Ulman, Taner Yıldız, Sinan Mavruk, Stefanos Kalogirou, Nazli Demirel, Daniel Pauly** – An update on pufferfish research in Turkey: biology and ecology for *Lagocephalus sceleratus* and *Torquigener flavimaculosus*

11:30 – 11:45 **Mahir Kanyılmaz, Altuğ Atalay, Suna Çiftci, Derya Özcan, Elvan Tercan** – Evaluation of pufferfish catching incentive model in Türkiye

11:45 – 12:00 **Ioannis Andrianopoulos, Paraskevi K. Karachle, Aikaterini Dogrammatzi, Evangelia Michaloudi** – The feeding habits of the non-indigenous *Etrumeus golanii* from the Aegean Sea

12:00 – 12:15 **Coffee break**

Session 1 (Cont.)

Chairs: F. Güler Ekmekçi, Rumen Tomov

12:15 – 12:30 **Hilal Aydın, Emine Erdem Cingöz** – Phytoplankton invasions in Mediterranean Sea

12:30 – 12:45 **Merve Karakuş, Coşkun Menderes Aydın** – Some findings on the diversity and biomass of alien and invasive alien species in the Mediterranean coast of Türkiye

12:45 – 13:00 **Madona Varshanidze, Marina Mgeladze, Tinatin Joglidze, Paata Vadachkoria, Ramaz Mikeladze, Bella Japoshvili** – Present state of Rapa whelk (*Rapana venosa*) on the Black Sea coast of Georgia

13:00 – 14:00 **Lunch break**

Session 2

Chairs: Paraskevi K. Karachle, Deniz Innal

Keynote presentation 2

14:00 – 14:30 **Teodora Trichkova, Rumen Tomov, Vladimir Vladimirov, Milcho Todorov, Elena Tsvetkova, Violeta Tyufekchieva, Hristina Kalcheva, Polina Nikova** – Applying citizen science tools for invasive alien species: case study from Bulgaria

14:30 – 14:45 **Aylin Ulman, Jasmine Ferrario, Anna Occhipinti-Ambrogi, Christos Arvanitidis, Agnese Marchini** – Recreational boating as a major vector of spread of nonindigenous species around the Mediterranean

14:45 – 15:00 **Deniz İnnal** – Identification of non-native freshwater fishes in Turkey's Mediterranean brackish water systems and assessment of their potential threats to the native fish fauna

15:00 – 15:15 **Emine Erdem Cingöz, Hilal Aydın** – Invasive phytoplankton spreadings in the Black Sea

15:15 – 15:30 **Mülkibar Çiftçioğlu, Hasan Cerim** – Assessment of invasiveness potential of *Diadema setosum* (Leske, 1778) (Echinodermata: Diadematidae) by the Aquatic Species Invasiveness Screening Kit (AS-ISK)

15:30 – 15:45 **Coffee break**

Session 2 (Cont.)

Chairs: Paraskevi K. Karachle, Deniz Innal

15:45 – 16:00 **Gamze Dogdu** – A critical growing challenge: Environmental and health impacts of invasive alien species

16:00 – 16:15 **Anna Maria Mannino, Paolo Balistreri, Maria Cristina Gambi** – An updated overview of biological invasions in Sicilian Islands (Southern Mediterranean Sea)

16:15 – 16:30 **Gerasimos Kondylatos, Dimitris Mavrouleas, Alexios Conides, Dimitris Klaoudatos** – EXPLIAS – Non-indigenous species in experimental fishing with static nets in Rhodes Island

16:30 – 16:45 **Yağmur Akgün, Ekin Akoğlu** – The impact of Lessepsian migrant Randall's threadfin bream (*Nemipterus randalli*) on the food web and fishery

16:45 – 17:00 **Coffee break**

17:00 – 18:00 **Poster Session 1**

18:00 – 18:45 **11th ESENIAS Workshop**

14th November 2022

Session 3

Chairs: Naime Arslan, Stojmir Stojanovski

- 09:30 – 09:45 **Mehmet Ekmekçi, Baran Yoğurtçuoğlu, F. Güler Ekmekçi, Şükran Açık**
– Use of ecohydrological approach in controlling invasive species: A case study
in Acıgöl groundwater dependent ecosystem
- 09:45 – 10:00 **Cüneyt Kaya, Fitnat Güler Ekmekçi, Baran Yoğurtçuoğlu** – First
introduced record of Doctor fish (*Garra rufa*) in Turkey
- 10:00 – 10:15 **Ümit Kebapçı** – To or From? A Snail Story
- 10:15 – 10:30 **Mehmet Zeki Yildirim, Ümit Kebapçı** – Exotic pet trade snails in the
Mediterranean Region of Türkiye

10:30 – 10:45 Coffee break

Session 4

Chairs: Carla Gavrilescu, Algimantas Paulauskas

Keynote presentation 3

- 10:45 – 11:15 **Rumen Tomov, Roxana Ciceoi** – Non-chemical pest management in
horticulture by alien beneficial organisms – knowledge gap analysis
- 11:15 – 11:30 **Ümit Kebapçı, Mehmet Zeki Yildirim** – Nonnative invasive terrestrial slugs
of Türkiye
- 11:30 – 11:45 **Ümit Kebapçı** – Feral ground of invasiveness
- 11:45 – 12:00 **Algimantas Paulauskas, Loreta Griciuvienė, Vytautas Mažeika, Nijole
Paulauskienė, Irma Ražanskė, Jana Radzijeuskaja** – Invasion of golden
jackal *Canis aureus* in Baltic countries
- 12:00 – 12:15 **Roxana Ciceoi, Oana Venat, Minodora Gutue, Vasilica Luchian, Mala-
Maria Stavrescu-Bedivan** – Establishment of *Aceria kuko*, Goji berry gall
mite, in Romania
- 12:15 – 12:30 **Alexandr Vasiliev** – First evidence of *Simulium dahestanicum* (Rubtsov,
1962) in Europe
- 12:30 – 12:45 **Simeon Lukanov, Irina Lazarkevich, Emiliya Vacheva, Miroslav Slavchev,
Nikola Stanchev, Blagovesta Dimitrova, Nikolay Todorov, Angel
Dyugmedzhiev, Borislav Naumov** – Removal of the invasive terrapin
Trachemys scripta elegans from a protected site in Bulgaria – risk assessment
and future perspectives

12:45 – 13:45 Lunch break

14.00 – 19.00 Conference excursion

15th November 2022

Session 5

Chairs: Madona Varshanidze, Ahmet Uludağ

Keynote presentation 4

09:30 – 10:00 **Ali Serhan Tarkan** – InvaCost, a public database of the economic costs of biological invasions worldwide – current situation and the way

Keynote presentation 5

10:00 – 10:30 **David Lunsford, Florence Tremblay Otis, Robert Bajada (Stream Ocean)** – Making the invisible visible: A solution for improved underwater surveillance of invasive alien species

10:30 – 10:45 **Mihaela Urziceanu, Eugenia Nagodă, Alina Georgiana Cişlariu, Ioana-Minodora Sîrbu, Petronela Camen-Comănescu, Maria Raicu, Paulina Anastasiu** – Alien plant invasion hotspots in the lower Danube sector, as a result of human-modified landscapes. Study case: Borcea Branch, Romania

10:45 – 11:00 **Necmi Aksoy, Ahmet Uludağ, İlhan Üremiş, Bilge Tunçkol, Neval Güneş Özkan** – *Reynoutria japonica* Houtt.: Its pathways, ecological and chorological notes for flora of Türkiye

11:00 – 11:15 **Yasin Emre Kitiş, Osman Çavuşoğlu, Ramazan Süleyman Göktürk** – A new alien plant species recorded for the flora of Türkiye: *Fatoua villosa* (Thunb.) Nakai (Moraceae)

11:15 – 11:30 **Neval Güneş Özkan, Nihan Koçer, Necmi Aksoy** – First record of invasive macrophyte *Elodea nuttallii* (Planch.) H. St. John (Hydrocharitaceae) in Türkiye

11:30 – 11:45 **Coffee break**

Session 6

Chairs: Sava Vrbnicanin, Marga Grădilă

11:45 – 12:00 **Alina Georgiana Cişlariu, Petronela Camen-Comănescu, Ioana-Minodora Sîrbu, Mihaela Urziceanu, Eugenia Nagodă, Maria Raicu, Paulina Anastasiu** – Risk assessment of *Phytolacca americana* in Romania

12:00 – 12:15 **Ahmet Uludağ, İrem Eysan Sezer** – The non-native genus *Echinochloa* as weeds in the non-native crop rice in Gonen, Türkiye

12:15 – 12:30 **Ahmet Uludağ, Necmi Aksoy, İlhan Üremiş, Giuseppe Brundu** – *Eucalyptus* L'Hér. spp. (Myrtaceae), potential threat to Mediterranean ecosystems of Türkiye

12:30 – 12:45 **Haroon Khan, Ömer Süha Uslu, Osman Gedik** – Climate change's impact on invasive alien weeds and the threat it poses to the ecosystem biodiversity of Pakistan

12.45 – 13:00 **Muhammad Akbar, Ali Raza, Tayyaba Khalil, Nasim Ahmad Yasin, Yasir Nazir, Aqeel Ahmad** – Allelopathic activity of *Digera muricata*, against two weeds, *Avena fatua* and *Melilotus indicus*

13:00 – 14:00 **Lunch break**

Session 7

Chairs: Bella Japoshvili, Teodora Trichkova

Keynote presentation 6

14:00 – 14:30 **Phil Davison, Gordon Copp** – Environmental (eDNA) for detecting alien fishes and inform management decisions on eradication: a case study in Southern England

14:30 – 14:45 **Gordon H. Copp, Jennifer A. Dodd, Hannah J. Tidbury, Rob S.E.W. Leuven, Eric Feunteun, Karin H. Olsson, Stephan Gollasch, Anders Jelmert, Kathryn A. O'Shaughnessy, David Reeves, Jorge Brenner, Hugo Verreycken** – Invasiveness risks of naked goby, *Gobiosoma bosc*, to North Sea transitional waters

14:45 – 15:00 **Ahmet Özer** – The current parasitic assemblages in native gobiid fishes in Türkiye and their interactions with gobiid hosts in expanded ranges

15:00 – 15:15 **Polina Nikova, Teodora Trichkova, Milcho Todorov** – Invasive alien species of Union concern in fresh waters of Sofia Region: Preliminary results

15:15 – 15:30 **Deniz Mercan, Sadi Aksu, Naime Arslan, Özgür Emiroğlu, Ali Serhan Tarkan** – Determination of potential invasion areas of *Pontogammarus robustoides* (Sars, 1894) (Amphipoda) for Turkish inland waters with ecological niche modeling

15:30 – 15:45 **Konstantin Zdraveski, Sasho Trajanovski, Biljana B. Gjoreska, Sonja Trajanovska, Teodora Trichkova** – Scaling the anthropogenic impact and conservation challenges through ecosystem services and biological inventory in Sveti Naum Springs (Lake Ohrid)

15:45 – 16:00 **Pinar Arslan, Mehmet Zeki Yıldırım, Aysel Çağlan Günal** – The effects of fipronil on the freshwater snails

16:00 – 16:15 **Coffee break**

Session 8

Chairs: Eugenia Nagoda, Petronela Camen-Comănescu

16:15 – 16:30 **Oana-Viorica Danci, Constantin Drăgulescu** – Riparian invasive alien plant species in Southern Transylvania, România: history of introduction, chorology and ecology

16:30 – 16:45 **Bilge Tunçkol, Neval Güneş Özkan, Necmi Aksoy, Ahmet Uludağ** – Taxonomical notes, ecological and chorological update on the *Opuntia macrorhiza* Engelm. in Türkiye

16:45 – 17:00 **Tautvydas Žalnierius, Vaidevutis Šveikauskas, Sigita Jurkonienė** – Seeds of *H. sosnowskyi* from terminal and satellite umbels developed under gibberellic acid treatment, germinate differently

17:00 – 17:15 **Markola Saulić, Ivica Djalović, Dragana Božić, Sava Vrbničanin** – Soil Seed Bank of Ragweeds under different management system

17:15 – 17:30 **Mustafa Zengin, Serdar Süer, Melih Rüzgâr** – Modification studies to reduce the impact on the benthic ecosystem of beam trawling, which is predominantly used in sea snail (*Rapana venosa*) fishing

17:30 – 17:45 **Coffee break**

17:45 – 18:45 **Poster Session 2**

POSTERS

Poster Session 1

(17:00 – 18:00h, 13.11.2022)

Chair: Baran Yoğurtçuoğlu

- P1.01: Bella Japoshvili, Giorgi Epitashvili, Tatia Kuljanishvili, Ani Bikashvili, Madona Varshanidze, Levan Mumladze** – Invasive species and protection of native biodiversity in Georgia
- P1.02: Detelina Belkinova, Desislava Stoianova, Mihaela Beshkova, Plamen Stoyanov, Rumen Mladenov** – Current status of populations development of the invasive and potentially toxic species *Raphidiopsis raciborskii* (Cyanoprokaryota, Nostocales) in stagnant water bodies in Bulgaria
- P1.03: Sergiy Bushuyev, Sergiy Snigirov, Genadiy Kharlov, Yuriy Kvach** – New data on the distribution of the Far-Eastern shrimp, *Macrobrachium nipponense* (Malacostraca: Palaemonidae) in the southwestern Ukraine
- P1.04: Kathrin Theissinger, Jean-Yves Georges, Mihails Pupins, Oksana Nekrasova, Oleksii Marushchak, Andris Čeirāns, Arturs Skute** – Prospects for the distribution of the North American species signal crayfish *Pacifastacus leniusculus* in Europe
- P1.05: F. Güler Ekmekçi, Baran Yoğurtçuoğlu, Şerife G. Kırankaya, Cüneyt Kaya, Davut Turan** – Is zebra mussel a potential threat for native fauna in Alpaslan II Reservoir watershed

Chair: Yuriy Kvach

- P1.06: Ovidiu Dragan, Dan Cogalniceanu** – Introduced fish species in Romanian alpine lakes: Retezat National Park case study
- P1.07: Serhii Khutornoi, Mikhail Son, Yuriy Kvach** – New fishes in the fauna of the Sukhyi Lyman (North-Western Black Sea, Ukraine)
- P1.08: Yuriy Kvach, Yuliia Kutsokon, Volodymyr Yuryshynets** – The parasite of the big-scale sand-smelt (*Atherina boyeri*) in native and acquired range in Ukraine
- P1.09: Stojmir Stojanovski, Dijana Blazhekovikj-Dimovska, Lidija Velkova-Jordanovska, Vasil Kostov, Irina Manevska, Julijana Arsovska** – First record of *Acanthocephalus lucii* (Müller, 1776) Lühe, 1911 (Paleacanthocephala: Echinorhynchidae) in minnow (*Phoxinus lumaireul* Linnaeus, 1758) from Belčišta wetland, N. Macedonia
- P1.10: Dijana Blazhekovikj-Dimovska, Stojmir Stojanovski, Lidija Velkova-Jordanoska, Vasil Kostov, Irina Manevska, Julijana Arsovska, Kristijan Veljanovski** – First record of *Pomphorhynchus bosniacus* (Kiškarolj et Čanković, 1969) (Paleacanthocephala: Pomphorhynchidae) in some cyprinid fish from Belčišta wetland (Macedonia)

Chair: Şerife Gülsün Kırankaya

- P1.11: Igor Davydenko** – Waterfowl and wetland birds as a factor of distribution of invasive fish species on the territory of Ukraine
- P1.12: Milica Jaćimović, Marija Smederevac-Lalić, Dušan Nikolić, Gorčin Cvijanović, Sladana Spasić, Željka Višnjić-Jeftić, Stefan Skorić, Jasmina Krpo-Četković** – Effects of selective removal of the black bullhead (*Ameiurus melas*) on other non-native fish populations in the Ponjavica Nature Park (Serbia)
- P1.13: Lidija Velkova-Jordanoska, Stojmir Stojanoski, Dijana Blazekovikj-Dimovska, Kristijan Veljanovski** – Fish populations on Belcista wetland – risk assessment, prevention and management

Poster Session 2

(17:30 – 18:30h, 15.11.2022)

Chair: Necmi Aksoy

- P2.01: Jesús Jiménez-Ruiz, Juan Pablo Del Monte, M^a Inés Santín-Montanyá** – Phenotypic plasticity of *Arundo donax* L. (Giant reed) in Mediterranean ecosystems
- P2.02: Marga Grădilă, Valentin Marius Ciontu, Raluca Monica Cristea, Daniel Jalobă** – Monitoring of spreading of invasive plant *Erigeron annuus* (L.) Pers. (daisy fleabane) in cereals crops in southeast Romania

Chair: Rumen Tomov

- P2.03: Ilija Gjonov, Monika Pramatarova, Erdem Hizal, Sevcan Öztemiz** – *Acanalonia conica* (Say, 1830) (Hemiptera: Acanaloniidae) - a new alien species in Bulgaria
- P2.04: Marius Skolka, Dan Cogălniceanu, Daniyar Memedemin, Ovidiu Drăgan, Carla Gavrilesco, Teodora Tanase** – *Corytucha arcuata* (Say, 1832) (Heteroptera, Tingidae) in alpine habitats from the Romanian Carpathians
- P2.05: Marius Skolka, Daniyar Memedemin, Ovidiu Drăgan, Carla Gavrilesco** – New data on the presence of *Sceliphron curvatum* (F.Smith, 1870) (Hymenoptera, Sphecidae) in Romania
- P2.06: Rumen Tomov** – Alien insect species in areas with rich biodiversity in Sofia Municipality
- P2.07: Rumen Tomov** – Occurrence of *Cacopsylla pulchella* (Löw, 1877) (Hemiptera, Psyllidae) in Bulgaria
- P2.08: Emek Koçak, Berkay Türk** – *Pheidole* sp. and *Tapinoma* sp. (Hymenoptera: Formicidae) changing food preferences
- P2.09: Delka Salkova** – Prevalence and pathways for introduction of small hive beetle (*Aethina tumida*)
- P2.10: Dimitar Velchev, Nataliya Petrovska, Teodora Toshova, Danail Takov, Ivaylo Todorov, Daniela Pilarska, Miklós Tóth** – Potential of the mycoinsecticide Naturalis® for use in strategies of crop protection against *Diabrotica virgifera virgifera* LeConte, 1858
- P2.11: Miglė Razgūnaitė, Jana Radzijeuskaja, Algimantas Paulauskas** – Domestic cat part-wild hybrid identification using diagnostic molecular methods

Subject: Joint ESENIAS and DIAS Scientific Conference and 10th ESENIAS Workshop
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Participants' countries and time zones

Country (Country zone)	Turkey time (TRT)	Central European time (CET)
1. Bulgaria (EET)	-1	1
2. Canada (PST)	-10	-8
3. Croatia (CET)	-2	0
4. Cyprus (EET)	-1	1
5. France (CET)	-2	0
6. Georgia (GET)	1	3
7. Germany (CET)	-2	0
8. Greece (EET)	-1	1
9. Hungary (CET)	-2	0
10. Italy (CET)	-2	0
11. Latvia (EET)	-1	1
12. Lithuania (EET)	-1	1
13. Moldova (EET)	-1	1
14. Pakistan (PKT)	2	4

15. Poland (CET)	-2	0
16. Republic of North Macedonia (CET)	-2	0
17. Romania (EET)	-1	1
18. Serbia (CET)	-2	0
19. Spain (CET)	-2	0
20. Switzerland (CET)	-2	0
21. Türkiye (TRT)	0	2
22. UK (GMT)	-3	-1
23. Ukraine (EET)	-1	1

GMT – Greenwich Mean Time = UTC 0 (Coordinated Universal Time)

CET = UTC +1

EET – Eastern European Time = UTC +2

TRT = UTC +3