

NEOBIOTA 2022 Tartu PROGRAM (with final changes)

Monday 12th September 2022	Tuesday 13th September 2022	Wednesday 14th September 2022	Thursday 15th September 2022	Friday 16th September 2022
19:00 Registration & Welcome Reception	8:00 Registration 8:30 Welcome Speeches Montserrat Vilà Raimond Tamm Eike Tammekänd 8:45 Chair: <i>Aveliina Helm</i> Keynote 1 – Bernd Lenzner. Biological invasion scenarios: getting a glimpse of the future TRENDS IN THE INTRODUCTION, SPREAD AND EVOLUTION OF BIOLOGICAL INVASIONS AT DIFFERENT SPATIAL AND TEMPORAL SCALES 9:15 O1 – Jane Catford, John Wilson, Petr Pyšek, Philip Hulme, Richard Duncan. Addressing context dependence in invasion ecology 9:30 O2 – Bruno Paganelli, Enrico Tordini, Meelis Pärtel. Global analysis of source and destination areas for past and future plant invasions 9:45 O3 – Alberto Santini, Giorgio Maresi, David Richardson, Andrew Liebhold. Collateral damages: military invasions beget biological invasions 10:00 O4 – Franz Essl, Bernd Lenzner, Hanno Seebens, GloNAF Core Team, AlienScenarios Core Team. Biological invasions: what is needed for Global Post 2020-Biodiversity Policies? 10:15 O73 – John Wilson, Sabrina Kumschick, Lihuwani Nzeru, Mlungel Nsikani. The regulation of alien species in South Africa 10:30 Coffee Break	8:00 Registration Chair: Franz Essl 8:30 Keynote 3 – Philip Hulme. What do we really know about the direct and indirect drivers of biological invasions? PAST, CURRENT AND FUTURE DRIVERS RESPONSIBLE FOR BIOLOGICAL INVASIONS 9:00 O27 – Joshua Brian, Jane Catford. A process-driven reframing of the Enemy Release Hypothesis in space and time 9:15 O28 – Rūta Juozaitienė, Hanno Seebens, Franz Essl, Guillaume Latombe, Ernst C. Wit. Analysing ecological dynamics with relational event models: the case of invasion events 9:30 O29 – Margherita Gloria, Angelino Carta, Lenka Moravcová, Hana Škalová, Petr Pyšek. Soil seed banking strategies of invasive plants at home and abroad 9:45 O30 – Daijun Liu. The impact of land use on alien species incidence and number in local assemblages worldwide 10:00 O31 – Lisa Tedeschi, Franz Essl, Carlo Rondinini. The role of (un)recorded introductions in explaining current alien mammals' distribution in Europe 10:15 O32 – Jan Divišek, Milan Chytrý, Brian Beckage, Nicholas J. Gotelli, Zdeňka Lososová, Petr Pyšek, David M. Richardson, Jane Molofsky. Do alien plants occupy the centre or periphery of the functional trait space in local communities of different habitat types? 10:30 Coffee Break	Excursions	Chair: <i>Katelyn Faulkner</i> 8:30 Keynote 5 – Helen Roy. Documenting and predicting biological invasions globally BIOLOGICAL INVASIONS AND CLIMATE CHANGE 9:00 O53 – Tom Vorstenbosch, Franz Essl, Bernd Lenzner, Johannes Wessely, Stefan Dullinger. Widespread niche shifts in alien plant species under the non-analogous climate of the sub-Antarctic islands 9:15 O54 – Marina Golivets, Sonja Knapp, Ingolf Kühn. Distinct futures of native and non-native plant traits in six major habitat types in Central Europe 9:30 BIOTIC INTERACTIONS IN INVADED COMMUNITIES AND ECOSYSTEMS, INCL. INTERACTIONS BETWEEN INVADERS Chair: <i>Katelyn Faulkner</i> 9:30 O55 – Aleksandra Wróbel, Przemysław Kurek, Rafał Zwolak. Out of thin air: Eurasian jays ( <i>Garrulus glandarius</i> ) enhance the invasion of northern red oak ( <i>Quercus rubra</i> ) via tripartite interactions with native oaks 9:45 O56 – Peliyagoda Chathura Dineth Perera, Iwona Gruss, Jacek Twardowski, Cezary Chmielowiec, Magdalena Szymura, Tomasz Szymura. Response of soil invertebrates assemblages on different methods of <i>Solidago</i> invaded land restoration 10:00 O57 – Jonatan Rodríguez, Noa Núñez-González, Marta Pérez-Diz, Berea Rodríguez-Adesso, Ana Novoa, Luis González. Assessing the impact of the invasive plant <i>Carpobrotus</i> spp. on plant-herbivore interaction networks: a call to implement management strategies 10:15 O58 – Ryan Beshai, Danny Truong, Amy Henry, Cascade Sorte. Biotic resistance or invasional meltdown? Diversity reduces invasibility but not exotic dominance in southern California epibenthic communities. 10:30 EXPRESS PRESENTATION E6 Chair: <i>Katelyn Faulkner</i> 10:35 Coffee Break
	11:00 TRENDS IN THE INTRODUCTION, SPREAD AND EVOLUTION OF BIOLOGICAL INVASIONS AT DIFFERENT SPATIAL AND TEMPORAL SCALES (CONTINUED) Chair: <i>Aveliina Helm</i> 11:00 O6 – Camille Bernery, Céline Bellard, Franck Courchamp, Sébastien Brosse, Rodolphe E. Gozlan, Ivan Jarić, Fabrice Teletchea, Boris Leroy. Freshwater fish invasions: a comprehensive review 11:15 O7 – Adrián García Rodríguez, Bernd Lenzner, Franz Essl. Animal invasions in mountains: a global review of patterns, drivers and potential impacts 11:30 O8 – Arman Pili, Reid Tingley, Dylan Van Winkler, Lisa Maria, David Chapple. The escalating global problem of human-mediated accidental transport of alien species revealed by exotic herpetofauna interceptions in New Zealand 11:45 O9 – Sara Vicente, Helena Trindade, Cristina Máguas, Johannes J. Le Roux. <i>Acacia longifolia</i> around the world: tracing the introduction history of a problematic invasive plant species 12:00 P86 – Stephen Mifsud. Management towards the eradication of <i>Pennisetum setaceum</i> from the island of Gozo 12:15 O11 – Cristian R. Altaba. Five millennia of invasions: invasibility, exaptations and conservation in the Balearic islands 12:30 LUNCH	11:00 PAST, CURRENT AND FUTURE DRIVERS RESPONSIBLE FOR BIOLOGICAL INVASIONS (CONTINUED) Chair: Franz Essl 11:00 O33 – Nicole Kinlock, Katharina Dehnen-Schmutz, Franz Essl, Jan Pergl, Petr Pyšek, Holger Kreft, Patrick Weigelt, Qiang Yang, Mark van Kleunen. Introduction history mediates naturalization and invasiveness of cultivated plants 11:15 O35 – Krzysztof Podwysoki, Tomasz Mamos, Tomasz Rewicz, Michał Grabowski, Karolina Bącela-Spychalska. Has human leisure activity an impact on the distribution of native and invasive <i>Amphipoda</i> (Crustacea) in Mazurian Lakeland (Poland)? 11:30 O36 – Paul Teesalu, Johanna Maria Muuga, Katrin Kaldre, Margo Hurt, Tiina Nõges, Fabio Ercoli. The role of temperature in marbled crayfish ( <i>Procambarus virginalis</i> , Lyko 2017) invasion in Estonian freshwater ecosystem 11:45 O37 – Vasiliki Balogianni, Bruce Osborne. <i>Gunnera tinctoria</i> : successful invader but poor competitor 12:00 LUNCH		11:00 BIOTIC INTERACTIONS IN INVADED COMMUNITIES AND ECOSYSTEMS, INCL. INTERACTIONS BETWEEN INVADERS (continued) Chair: <i>Katelyn Faulkner</i> 11:00 O59 – Franziska Leonhardt, Raffael Ernst, Alexander Keller, Clara Arranz Aveces. From alien species to alien communities: Interactions between host- and habitat associated microbiomes in an alien amphibian from the Caribbean 11:15 O60 – Quentin Groom. Biotic interaction data and invasive species assessment 11:30 O34 – Angela Bartlett, Jane Catford. Characteristics of Australia's alien flora vary with invasion stage 11:45 NON-NATIVE PESTS AND PATHOGENS. PESTS AND PATHOGENS SPREAD BY INVASIVE ALIEN SPECIES Chair: <i>Ana L. Nunes</i> 11:45 O61 – Anna Schertler, Bernd Lenzner, Irmgard Krisai-Greilhuber, Hermann Voglmayr, Stefan Dullinger, Dietmar Moser, Franz Essl. Patterns of plant-fungal pathogen linkages in invasions 12:00 EFFECTIVENESS OF PAST AND CURRENT CONTROL MEASURES AND NATIVE COMMUNITIES RESTORATION EFFORTS Chair: <i>Ana L. Nunes</i> 12:00 O63 – Magdalena Szymura, Sebastian Świercz, Tomasz H. Szymura. Environment-friendly restoration of land degraded by invasive plants: lessons from a six year experiment 12:15 O64 – Kevin G. Smith, Ana L. Nunes. Management of vertebrate invasive alien species of Union concern, incorporating animal welfare 12:30 O65 – Mads Pédra, Asun Gómez. Eradication of recently established American mink population in the Ebro river basin in Spain 12:45 LUNCH
	13:30 Chair: <i>Aveliina Helm</i> Keynote 2 – Hanno Seebens. Knowns and unknowns of the distribution of alien species worldwide TRENDS IN THE INTRODUCTION, SPREAD AND EVOLUTION OF BIOLOGICAL INVASIONS AT DIFFERENT SPATIAL AND TEMPORAL SCALES (CONTINUED) 14:00 O12 – Anna Walentowitz, Manuel Steinbauer, Bernd Lenzner, Nichola Strandberg, Simon Connor, Álvaro Castilla Beltrán, Franz Essl, Sandra Nogué. Paleoeological perspective on the abundance of alien plant species on islands 14:15 O13 – Agnieszka Sendek, Marco Balty-Jesi, Florian Altermatt, Martin Bader, Andrew Liebhold, Rebecca Turner, Alain Roques, Hanno Seebens, Piet Spaak, Christoph Vorburger, Eckehard Brockerhoff. Fewer non-native insects in freshwater than in terrestrial habitats across continents 14:30 O14 – Maria A. Perez-Navarro, Jane Catford. Spatial scale determines whether functional and phylogenetic similarity helps or hinders exotic plants NOVEL TOOLS AND METHODS FOR DETECTION, MAPPING, MONITORING AND CONTROL OF INVASIVE ALIEN SPECIES Chair: <i>Arman Pili</i> 14:45 O15 – Tim Adriaens, Toon Van Daele, Quentin Groom, Sonia Vanderhoeven, Amy Davis, Diederik Strubbe, Lien Reyherthove, Peter Desmet, Damiano Oldoni. Automated early warning: a pipeline for feeding headline indicators on the state of invasions and to prioritize emerging alien species 15:00 O16 – Irena Amsanová, Veronika Kalusová, Natálie Čeplová, Jiří Danihelka, Petr Pyšek, Paulina Anastasiu, Idoia Burzun, Steffen Boch, Franz Essl, Emmanuel Garbolino, Anna Kuzenko, Jana Medvecká, Vira V. Protopenova, Myroslav Shevera, Jens-Christian Svenning, Erik Welk, Milan Chytrý. Updated alien plant species lists of European countries in the FloraVeg.EU database 15:15 O18 – Joana Vicente, A. Sofia Vaz, Joaquim Alonso, João Gonçalves, Nuno Mouta, João Honrado, Daniel Velho, Cristiano Barros, Bruno Marcos, Iolanda Rocha, Eva Pinto, André Correia, Pedro Castro. A novel remote sensing supporting system to control, monitoring, containment and eradication of aquatic alien plant species – SINVAQUA O17 – Matthias Grenié, Petr Pyšek, Franz Essl, Patrick Weigelt, Holger Kreft, Mark van Kleunen, Wayne Dawson, Ingolf Kühn, Helge Bruelheide, Marten Winter. A barrier to global plant invasion ecology: gaps in trait availability for alien species 15:45 EXPRESS PRESENTATIONS (E1–E5, E7) Chair: <i>Arman Pili</i> 16:00 Coffee Break & Poster Session	13:15 Keynote 4 – Bella Gallí. A canal, A sea, A disaster – The Suez Canal and the transformation of the Mediterranean biota IMPACTS OF INVASIONS ON NATIVE SPECIES, COMMUNITIES AND ECOSYSTEMS 13:45 O38 – Guillaume Latombe, Jane A. Catford, Franz Essl, Bernd Lenzner, David M. Richardson, John R.U. Wilson, Melodie A. McGeoch. GIRAIE: a Generalized approach for linking the total impact of invasion to species' Range, Abundance and per-unit Effects 14:00 O39 – Alessandra R. Körtz, Anne E. Magurran, Faye Moyes, Maria Dornelas, Vânia Pivello, Petr Pyšek, Piero Visconti. Stronger compositional change in plant assemblages worldwide is associated with invasion 14:15 O40 – Laura Forgiione, Sven Bacher, Giovanni Vimercati. Are species more harmful in their native, nonnative or alien range? Insights from a global analysis of bark beetles 14:30 O41 – Imtiaz B. Belem, Jonne Kotta, Francisco R. Barboza. Temperature modulates the community-wide effects of an invasive mud crab in a key Baltic Sea macroalgal-dominated habitat 14:45 O42 – Belinda Gallardo, Montserrat Vilà, Mária Barbosa. What are the most important impacts of invasive species on Nature's Contribution to People in Europe? 15:00 O43 – Gaëtan De Baene, Marie Patinet, Sonia Venderhoeven, Arnaud Monty. The impact of aquatic alien plants and crayfish control methods on ecosystem services 15:15 O44 – Fllon Davies, Mike Fowler. Increasing abundance of the invasive riparian plant, Himalayan balsam, reverses the effects of environmental variables on community- and functional diversity in freshwater macroinvertebrates 15:30 EXPRESS PRESENTATIONS (E9–E13) Chair: <i>Francisco R. Barboza</i> 15:45 Coffee Break & Poster Session	Chair: <i>Francisco R. Barboza</i> 13:15 Keynote 4 – Bella Gallí. A canal, A sea, A disaster – The Suez Canal and the transformation of the Mediterranean biota IMPACTS OF INVASIONS ON NATIVE SPECIES, COMMUNITIES AND ECOSYSTEMS (CONTINUED) Chair: <i>Francisco R. Barboza</i> 16:30 O45 – Kristiina Nõmama, Jonne Kotta, Robert Szava-Kovats, Kristjan Herkül, Redik Eschbaum, Markus Vetemaa. Novel fish predator causes sustained changes in its prey populations 16:45 O46 – Olaf Schmidt, Mauricio Mantoani, Fawzah Talal Alhakami, Hannah Fearon, Margherita Gloria, Bruce Osborne. <i>Gunnera tinctoria</i> invasions increase, not decrease, earthworm abundance and diversity 17:00 O47 – Lorenzo Lazzaro et al. Impacts of non-native nitrogen-fixing trees in Italy: evidence from the invasion of <i>Acacia</i> s.l. and <i>Robinia pseudoacacia</i> (Fabaceae) 17:15 O48 – Llewellyn Foxcroft, Ana Novoa, Stefan Foord, Thembeka Thwala, Caswell Munyai, Ansie Dippenaar-Schoeman. The impacts of <i>Parthenium hysterophorus</i> on ants, spiders and soil characteristics in Kruger National Park 17:30 O49 – Johannes Tesfay, Jürgen Kreyling. The invasive <i>Opuntia ficus-indica</i> homogenizes native plant species compositions in the highlands of Eritrea 17:45 O50 – Martin Hejda, Alessandra Körtz, Jiří Sádlo, Josef Kutvář, Petr Petřík, Michaela Vitková, Martin Vojík, Petr Pyšek, Jan Pergl. Do the local within-community impacts of native and invasive dominant plants scale up to the landscape level? NOVEL ECOSYSTEMS IN THE ANTHROPOCENE Chair: <i>Francisco R. Barboza</i> 18:00 O51 – Zdeňka Lososová. Urbanization decreases functional diversity of plant communities: a case study from one Central European city 18:15 O52 – Javier Galán, Montserrat Vilà, Ingrid Parker, Enrique García de la Riva. Functional assembly of grassland plant species in native communities in Spain and recipient communities in California 18:45 Neobiota Council Meeting 19:00/19:30 Walk in the Old Town	14:00 Keynote 6 – Evangelina Schwindt. Marine bioinvasions in South America: achievements and challenges ENGAGING THE PUBLIC AND STAKEHOLDERS – FROM LANDOWNERS TO SCIENTISTS, PRACTITIONERS AND DECISION MAKERS AND BACK 14:30 O67 – Ana Novoa, Ross Shackleton, Sven Bacher, Ratcha Chaichana, Tina D'Hertefeldt, Ali El-Keblawy, Bella Gallí, Margherita Gloria, Marina Golivets, Makhiko Ikegami, Ivan Jarić, Rahila Junika. Assessing global public knowledge and perceptions towards biological invasions and their management 14:45 O68 – Carla García-Lozano, Núria Roura-Pascual. Practices and perceptions of IAS local managers in Europe 15:00 O69 – Jonne Kotta, Henn Ojaveer, Mihail Fetissovo, Helen Orav-Kotta, Liisi Lees, Annelis Kõivupuu, Robert Szava-Kovats. Integrating ecological impacts of non-indigenous species within a cumulative effect assessment framework 15:15 O70 – Theresa Henke, Guðbjörg Ásta Ólafsdóttir. The social aspects of biological invasions – involving stakeholders in the research on the establishment of European flounder ( <i>Platichthys flesus</i> ) in Iceland 15:30 O71 – Tamos Jones, Alastair Culham, Brian Pickles, John David. Bridging the semantic divide: how invasion scientists can better communicate with gardeners 15:45 O72 – Sandro Bertolino, Giovanni Vimercati, Daniele Paoloni, Adriano Martinoli, Luc Wauters, Piero Genovesi, Valentina La Morgia. Restricted access to private properties limits management of invasive alien species 16:00 O5 – Katelyn Faulkner, John Wilson. Domesticating the CBD's introduction pathway classification framework – South Africa as an example 16:15 Coffee Break 16:45 ECONOMIC AND SOCIAL IMPACTS OF BIOLOGICAL INVASIONS Chair: <i>Ana Novoa</i> 16:45 O74 – Franck Courchamp. From big data to big collaborations: the InvaCost database on the economic costs of biological invasions 17:00 O75 – Ross Cuthbert, Christophe Diagne, Emma Hudgins, Anna Turbelin, Danish Ahmed, Célin Albert, Thomas Bodley, Elizabeth Briski, Franz Essl, Phillip Haubrock, Rodolphe Gozlan, Natalia Kirichenko, Melina Kourantidou, Andrew Kramer, Franck Courchamp. Biological invasion costs reveal insufficient proactive management worldwide 17:15 O76 – Anna Turbelin, Ross Cuthbert, Franz Essl, Phillip Haubrock, Anthony Ricciardi, Franck Courchamp. Biological invasions are as costly as natural hazards 17:30 O77 – Giovanni Vimercati, Anna Frances Probert, Lara Volery, Sven Bacher. Assessing positive socio-economic impacts of alien taxa within a unified framework 17:45 O78 – Elena Angulo, Christophe Diagne, Liliána Ballesteros-Mejía, Danish Ahmed, Achyut Benerjee, César Capinha, Cheikh Dia, Gauthier Dobigny, Marina Golivets, Phillip Haubrock, Gustavo Geringer, Natalia Kirichenko, Melina Kourantidou, Chunlong Liu, Martin Nuñez, David Renault, David Roiz, Ahmed Taheri, Laura Verbrugge, Yuya Watari, Franck Courchamp. The importance of non-English data to understand global patterns in biological invasions 18:00 Awarding & Closing Ceremony