

**4th International Conference on Community Ecology**  
**20-22 September 2023**  
**National Institute of Oceanography and Applied Geophysics - OGS / Trieste, Italy**

Program\*

**Wednesday / 20 September**

**Aula Magna Miramare**

**Room A Miramare**

13:00-14:00	<b>Registration</b>	
14:00-14:30	<b>Opening speech</b>	
14:30-15:15	<b>Plenary talk / Carlos Pérez Carmona (Estonia): Mapping and exploring trait spaces across the tree of life (Chair: G. Bacaro)</b>	
	<b>Pattern of species richness and diversity in terrestrial and freshwater systems (Chair: E. Feoli)</b>	<b>From individuals to macroecology (Chair: E. Tordoni)</b>
15:15-15:30	Enrico Feoli (Italy): Matrices of co-occurrence and their role in the study of ecological communities: one example with red and white spruce forests of the Friulian Mountains.	Marie-Sophie Rohwäder (Germany): Foraging personalities modify effects of habitat fragmentation on biodiversity
15:30-15:45	Duccio Rocchini (Italy): The ecological nitty gritty of the spectral species concept	Eleonora Beccari (Estonia): Environment drives the position of mammalian species in the global spectrum of life histories
15:45-16:00	Yaşar Gültekin (Türkiye): Reconfiguring Mountainous Landscapes: Smart Countryside Practises in Bilecik Province	Elisa Marchetto (Italy): Portrayal of spatiotemporal bias and uncertainty in the sPlotOpen database
16:00-16:30	Coffee break (Forefront of Aula Magna Miramare)	
	<b>Pattern of species richness and diversity in terrestrial and freshwater systems (Chair: E. Feoli)</b>	<b>From individuals to macroecology (Chair: E. Tordoni)</b>
16:30-16:45	Valentina Olmo (Italy): Disentangling vegetation cover and structure influence on spectral diversity: insights from a study in North-Eastern Italian forests	Elisa Thouverai (Italy): Mapping diversity: how do environmental heterogeneity patterns change in space and time?
16:45-17:00	Mirjana Šipek (Slovenia): Alien and ancient forest indicator plant species in temperate lowland forests respond differently to fragmentation	Angelo Perilli (Italy): Ocean data analysis to unveil sea turtle behavioural traits
17:00-17:15	Nicodemo Passalacqua (Italy): Surveying pasture communities in diachronic analyses by 3D Models	
17:30-20:00	<b>Welcome reception with Jam session (ICTP Terrace)</b>	

**Thursday / 21 September**

**Aula Magna Miramare**

**Room A Miramare**

**Room B Miramare**

8:30-9:15	<b>Registration</b>		
09:15-10:00	<b>Plenary talk / Aditee Mitra (UK): Plankton community structure and functioning under climate change – the mixoplankton dimension (Chair: F. Petruzzellis)</b>		
10:00-10:10	<b>Group photo</b>		
10:10-10:30	Coffee break (Forefront of Aula Magna Miramare)		
	<b>Pattern of species richness and diversity in terrestrial and freshwater systems (Chair: F. Petruzzellis)</b>	<b>Biodiversity and ecosystem functioning in marine systems (Chair: P. Lazzari)</b>	<b>Conservation biology and remediation ecology (Chair: G. Lövei)</b>
10:30-10:45	Alessandro Chiarucci (Italy): Biogeography and conservation meaning of plant species richness in small Mediterranean islands	Luca Polimene (Italy): A model-based, generalised eutrophication index for European Seas	Marco Bertoli (Italy): Ecological preferences of the south european nase lasca (Protochondrostoma genei, Bonaparte 1939) in the Chiaro di Cialla Creek (Northeast Italy): new insights and conservation perspectives
10:45-11:00	Damiano Baldan (Italy): Effects of longitudinal fragmentation on riverine beta diversity: a cross-catchment comparison	Ivano Vasotto (Italy): Comparing different estimation methods for phytoplankton traits: biomass, size, morphology, and their distribution	Ludovico Chieffallo (Italy): A novel approach for surveying flowers as a proxy for bee pollinators using drone images
11:00-11:15	Isabel Cantera (Italy): Succession in soil communities after glacier retreat: replacement versus taxa addition	Luis Amado Ayala Pérez (Mexico): Environmental behavior and fish abundance in some coastal systems of the southern Gulf of Mexico: Temporal integration analysis	Emanuele Fanfarillo (Italy): Effectiveness of different metrics of Floristic Quality Assessment: the simpler, the better?
11:15-11:30	Simone Giachello (Italy): Regional features shape the ecological succession of soil protist communities in glacier forelands around the world	Krzysztof Obolewski (Poland): Hydrological connectivity a one of key factors in ecological integrity	Maija Štokmane (Latvia): Spatial distribution modelling of insects and spiders within mire habitats in Latvia by using the remote sensing and machine learning techniques: a brand new approach
11:30-11:45	Agnese Marcelli (Italy): A design-based view of species richness estimation	Ilona Zloch (Poland): Biodiversity of marine endoliths	Emilia Pafumi (Italy): In&Out: comparing plant diversity of coastal dunes inside and outside the protected areas of Northern and Southern Tuscany
11:45-12:00	Francesco Petruzzellis (Italy): Coordination between water-related traits and the leaf economic spectrum		Mohcen Menaâ (Algeria): Bird assemblage response to Atlas cedar afforestation of Mount M'cid, Northeastern Algeria: a synecological approach for conservation management
12:00-12:15	Jakub Buda (Poland): Are the bacterial and eukaryotic assemblages related to environmental radioactivity on glacier surfaces?		
12:30-14:00	Lunch (ICTP Canteen)		
14:00-14:45	<b>Plenary talk / Catherine Longo (UK): From ocean to plate: community level climate change impacts on sustainable seafood (Chair: S. Libralato)</b>		
	<b>Pattern of species richness and diversity in terrestrial and freshwater systems (Chair: D. Rocchini)</b>	<b>Pattern of species richness and diversity in marine systems (Chair: P. Lazzari)</b>	<b>Ecosystem services (Chair: J. Grilli)</b>
14:45-15:00	Francesco de Bello (Spain): Differences in trait–environment relationships: implications for Community Weighted Means (CWMs) tests	Eva Álvarez (Italy): A diversity-inspired version of the Biogeochemical Flux Model	Davide Agnetta (Italy): Bio-economic indicators evidence fishing effort reduction and climate change effects from a dynamic food web model in a central Mediterranean fishing area
15:00-15:15	Giacomo Pugliese (Spain): IT-V net: the Italian Intraspecific Trait Variability network	Enrico Cecapoli (Italy): Assessing the contribution of three key habitats to the overall Mediterranean coastal fish diversity: the case study of Calabria	Heidi Simion (Italy): An ecosystem service-based approach to assess multifunctionality in the Alpine region
15:15-15:30	Pua Bar (Israel): Spatial heterogeneity effect on meta-community stability of annual plants from an Eastern-Mediterranean coastal dune ecosystem	Bernardo Patti (Italy): Biodiversity temporal patterns in the larval fish community of the Strait of Sicily (Central Mediterranean) and the role of local hydrodynamic processes	
15:30-15:45	Gwen Bury (USA): Patterns of forest associated freshwater fish, amphibians, reptiles, mussels, and crayfish at the scale of the conterminous United States.		
15:45-16:15	Coffee break (Forefront of Aula Magna Miramare)		
16:15-17:15	<b>Poster session* (Forefront of Aula Magna Miramare)</b>		
17:15-18:00	<b>Plenary talk / Gábor Lövei (Denmark / Hungary): In praise of the rare species (Chair: F. Jordán)</b>		

**Friday / 22 September**

**Aula Magna Miramare**

**Room A Miramare**

**Room B Miramare**

08:30-09:15	<b>Registration</b>		
09:15-10:00	<b>Plenary talk / Lynne Shannon (South Africa): From species to ecosystems: exploring community-based indicators as the missing link in marine assessments (Chair: E. Gissi)</b>		
10:00-10:30	Coffee break (Forefront of Aula Magna Miramare)		
	<b>Ecological networks and food webs (Chair: F. Jordán)</b>	<b>Biodiversity and ecosystem functioning in terrestrial ecosystems (Chair: G. Bacaro)</b>	<b>Effects of global changes (Chair: E. Gissi)</b>
10:30-10:45	András Hidas (Hungary): Uncovering causality in ecological networks by interaction asymmetry	Michele Torresani (Italy): Exploring biodiversity patterns in forest ecosystems using LIDAR remote sensing data: unravelling the influence of forest height heterogeneity	Elena Gissi (Italy): Exploring potential climate refugia through scenario analysis of marine megafauna functional diversity in the Northeast Pacific Ocean
10:45-11:00	Daniele Bellardini (Italy): Plankton and fish community changes investigated by environmental DNA metabarcoding at spatio-temporal scales along the Campania coast (Italy)	Alessandro Bricca (Italy): Above- and belowground traits along a stress gradient: trade-off or not?	Francesco Boscutti (Italy): The shape of plant community to come: linking species functional response and climate-induced shifts in alpine tundra dwarf shrub community
11:00-11:15	Igor Celic (Italy): Ecosystem approaches to support quantitative assessment of fisheries undergoing certification processes	Lucia Doni (Italy): The flora diversity under taxonomic, phylogenetic and functional trait aspects of sub- and alpine semi-natural grassland habitats	Michele Di Musciano (Italy): Dynamics of mountain vegetation under global change: the microclimate role
11:15-11:30	Elisa Donati (Italy): Spatial multi-criteria analysis based on the results of a food web model: application to a marine Natura 2000 site	Hana Soualah Ailia (Algeria): Butterflies species abundance dynamics and Distribution of Souk Ahras Forest (North east of Algeria)	Diego Panzeri (Italy): Future distribution of demersal species in a warming Mediterranean sub-basin
11:30-11:45	Ferenc Jordán (Italy): Aggregating food webs: algorithms, functioning and expertise	Maurizio Zotti (Italy): Fairy ring fungi regulate species coexistence in grasslands	Giacomo Trotta (Italy): Soil salt, nitrogen and organic matter content drive early successional plant community composition in dune systems by curbing alien invasion and enhancing native plant diversity.
11:45-12:00	Guido Occhipinti (Italy): Stochastic noise effects over plankton communities	Eman ALHeresh (Palestine): Threat analysis for a network of sites in West Bank (Palestine): An expert-based evaluation supported by grey literature and local knowledge	Ralf Ohlemüller (New Zealand): Up or Around – contrasting effects of elevation and aspect on growing season phenology in alpine plant communities
12:00-12:15	Natalia Serpetti (Italy): PLASTIC-WEB: Tracing microplastics up the EU marine food webs	Rasheed Adeleke (South Africa): Interplay between bacterial community assembly and climate variables with respect to maize-soy bean rotational system	
12:15-12:30		Roberto De Carolis (Italy): Lichen mycodiversity in Antarctica reveal the key role of thallus structure as suitable niche for diversity	
12:30-14:00	Lunch (ICTP Canteen)		
14:00-14:45	<b>Plenary talk / Thulani Makhalanyane (South Africa): Drivers of bacterial and viral communities in the Southern Ocean (Chair: J. Grilli)</b>		
	<b>Ecological networks and food webs (Chair: F. Jordán)</b>	<b>Biodiversity and ecosystem functioning in freshwater ecosystems (Chair: K. Patonai)</b>	<b>Effects of global changes (Chair: E. Gissi)</b>
14:45-15:00	Beñat Iglesias (Spain): Influence of seasonal variability on the trophic structure of pelagic communities	Gor Gevorgyan (Armenia): Investigation of phytoplankton dynamics in mountain Lake Sevan, Armenia	Alessio Mortelletti (USA): A community of personalities: drivers of the diversity of personality traits in wild small mammal populations
15:00-15:15	Joana Brito (Portugal): A simulation-based approach to assess the stability of marine food-webs and inform Good Environmental Status	Katalin Patonai (Italy): What makes an invader successful? Niche differentiation of four invasive mysid species.	Girish Nair (South Africa): Increases in soil nutrients may significantly alter bacterial phyla and their extracellular enzymatic activities in Antarctic soils
15:15-15:30			Suzanne Horke (Germany): Taxonomical and functional changes in dry grassland vegetation after 30 years
15:30-15:45			Christian Damgaard (Denmark): Predictive statistical modelling of the effect of climate change on diarrhea
15:45-16:15	Coffee break (Forefront of Aula Magna Miramare)		
16:15-16:30	<b>Conclusive remarks, Awards</b>		

**\*Poster session (21 September 2023 / 16:15-17:15, Forefront of Aula Magna Miramare)**

<b>Biodiversity and ecosystem functioning</b>	<b>Effects of global changes</b>
1. Francesco Dattilo (Italy): Functional diversity shapes plankton trophic webs in a changing sea	12. Melissa R. Gerwin (Australia): Exploring the abiotic context-dependency of plant-plant interactions using climate change experiments
2. Simone Libralato (Italy): Ecosystem approach to spatial multispecies management of small scale fishery and the community effects on the Adriatic Sea resources	13. Thomas Mieczan (Poland): The effect of experimentally simulated climate warming on the microbiome of carnivorous plants – a microcosm experiment
3. Eugenia López-López (Mexico): Fish assemblage of a tropical coastal lagoon in the Gulf of Mexico facing anthropic and climatic stressors: Life history changes along last half century	<b>Resilience, stability and health of ecological communities</b>
4. Monika M. Szymańska - Walkiewicz (Poland): Effect of floodgate construction on phytoplankton structure in a coastal lake (short-term vs medium-term)	14. Gemma Chiapparelli (Italy): Influences of Landscape Diversification on Vegetational Communities Quality: Multi-scale Analytical Insights on Highly Simplified Agricultural Landscapes
5. Natalia Mrozińska (Poland): Structure of the benthic fauna with special reference to the larvae of the Chironomidae in the coastal aquatic ecosystems of the southern Baltic Sea	<b>Patterns of species richness and diversity</b>
6. Martyna Bąkowska-Hopcia (Poland): The influence of hydrological connectivity of coastal lakes with the sea on the structure of the periphyton inhabiting the reed Phragmites australis (Cav.) Trin. ex Steud	15. Flora Vajna (Hungary): Grassland restoration has contrasting effects on plants, spiders and pollinators
7. Ayansina Segun Ayangbenro (South Africa): Rhizosphere microbial community and functional diversities of two soybean genotypes	16. Andrea Čerevková (Slovakia): Soil nematode communities of Ponická Cave and its vulnerability to pollution
8. Mikołaj Matela (Poland): Changes in the structure of the macrobenthic community caused by long-term restoration of Lake Rudnickie Wielkie	17. Cristina Fiera (Romania): Response of soil biota to soil characteristics and management practices in forests and meadows of Romanian Carpathians
9. Paolo Lazzari (Italy): Novel biogeochemical model implementation to investigate plankton community ecology	<b>Conservation biology</b>
<b>Ecological networks and food webs</b>	18. Gabriella Süle (Hungary): The effect of rare mowing and flower sowing on pollinators and wildflowers in public spaces
10. Barbara Zorica (Croatia): Pelagic Food Web in the Middle Eastern Adriatic: Insights from Stable Isotope Analysis	19. Magdalena Pogorzalec (Poland): Critical periods for plants during the reintroduction process - a case study of the endangered species Salix lapponum L. in Eastern Poland
11. Karolina M. Czechowska (Poland): Modeling invasion of marine species in Mediterranean ecosystems: approaches for challenging the (poor) plasticity of functional type-based food web models	<b>Statistical ecology</b>
	20. Jacinto Elías Sedeño-Díaz (Mexico): Mapping and change analysis in vegetal cover of mangrove community by means of Landsat imagery in a Ramsar site in Atlantic Mexican Slope