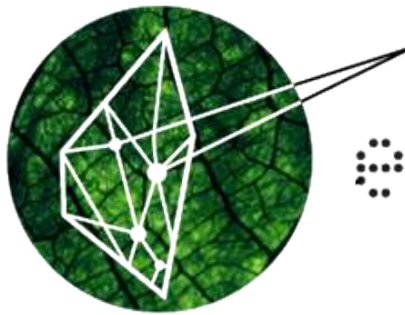


PROGRAMME



ECOLOGY AT THE INTERFACE
21 | 25 SEPTEMBER 2015 ROME



PROGRAMME INDEX

Monday, September 21th 2015

GLOBAL CHANGE AND SUSTAINABILITY

- pag. 09 > Opening ceremony
- pag. 09 > **PL01** - The Coupled Human - Climate system: future challenges and vulnerabilities
- pag. 09 > **CS01** - Ecotoxicology
- pag. 10 > **CS02** - Global change ecology
- pag. 10 > **CS03** - Aquatic ecology
- pag. 11 > **S01** - Plant Traits - A tool towards a more predictive ecology?
- pag. 12 > **S02** - The (Macro)Ecology of animal species decline
- pag. 13 > **S03** - Bio-monitoring: lessons from the past, challenges for the future
- pag. 13 > **S04** - The soundscape ecology: a new frontier of the ecological investigation

Legend:



PLENARY



BREAK



WELCOME COCKTAIL



WORKSHOP



ROUND TABLE



SYMPOSIUM



CS

Tuesday, September 22nd 2015

URBAN ECOSYSTEMS AND RESILIENCE

- pag. 14 > **PL02** - Sociology, ecology and environmental sustainability
- pag. 14 > **PL03** - The ecology of architecture
- pag. 14 > **S05** - Hidden and dark biodiversity - From molecules to macroecology
- pag. 14 > **S06** - Light pollution symposium
- pag. 15 > **S07** - Scale non-linearity of drivers of environmental change, and scale mismatches in nature conservation governance
- pag. 15 > **S08** - Frontiers in ecological economics: towards the circular and low carbon economy
- pag. 15 > **S09** - Energy and material flows in megacities
- pag. 16 > **S10** - Celebratory symposium for ESA century anniversary
- pag. 16 > **S11** - Phytoplankton traits, functional groups and community organization in the perspective of global environmental change
- pag. 17 > **CS04** - Behavioural ecology
- pag. 17 > **CS05** - Biodiversity and ecosystems
- pag. 18 > **WS01** - Using intelligent GIS tools supporting MSFD monitoring: achievements of IRIS-SES project
- pag. 18 > **WS02** - Trans-disciplinary ecosystem-health research and innovation: interfacing disciplines and fields of activity
- pag. 18 > **WS03** - Synthesis in ecology and the role of Synthesis centers
- pag. 18 > **RT01** - Urban resilience, sustainability and health
- pag. 18 > **CS03** - Aquatic ecology
- pag. 19 > **S12** - Interoperability tools for e-biodiversity
- pag. 19 > **CS06** - Forest ecology and dynamics
- pag. 20 > **CS07** - Evolutionary ecology

Wednesday, September 23rd 2015

SCIENCE-POLICY INTERFACE

- pag. 21 > S13 - Island at the crossroads: conservation dilemmas under global changes
- pag. 21 > S14 - Patterns and processes in tropical forest ecology
- pag. 22 > S15 - Multi-scale management of plant invasions and of their impacts on ecosystem services from global anticipation to local governance
- pag. 23 > S16 - Staying in the same place or lagging behind? Paths and obstacles for critical innovation in ecology
- pag. 23 > CS05 - Biodiversity and ecosystems
- pag. 24 > S17 - Biodiversity and ecosystem function experiments with trees
- pag. 25 > CS08 - Agricultural ecology
- pag. 26 > PL04 - The effects of climate change on phenology of wildflowers and animals in the Colorado Rocky Mountains
- pag. 26 > RT02 - Frontiers and future perspectives for ecological research
- pag. 26 > PL05 - Global change and ecosystem response: cross-scale interactions and the chain of uncertainties
- pag. 26 > PL06 - Metabolism of megacities
- pag. 26 > S18 - Combining earth observations with experimental studies for developing sustainable ecosystem services and natural resources
- pag. 26 > CS02 - Global change ecology
- pag. 27 > CS09 - Ecological modelling & body sizes allometries and patterns
- pag. 27 > CS10 - Population and community ecology, food webs networks and complexity

Thursday, September 24th 2015

BIODIVERSITY AND ECOSYSTEMS

- pag. 28 > S19 - Vito Volterra symposium on mathematical models in ecology
- pag. 28 > S20 - Long term ecological research (Lter) – The european perspective
- pag. 29 > S21 - The challenge of managing multiple stressors in marine regions: success stories, opportunities for action and gaps of knowledge
- pag. 29 > S22 - Soil quality and health
- pag. 30 > S23 - New emerging drivers of carbon and nutrient cycles under a drier and warmer climate
- pag. 30 > S24 - High nature value farmland: towards more effective conservation and monitoring of biodiversity across european landscapes
- pag. 31 > S25 - Ecologists' strategies at science-policy interfaces: how can social sciences help?
- pag. 31 > PL07 - Volterra 'S Legacy: variations and fluctuations in the numbers of coexisting species
- pag. 31 > WS04 - ILTER Nitrogen initiative
- pag. 31 > WS05 - ILTER Carbon initiative
- pag. 31 > WS06 - The emergence of wicked problems in coupled human and natural systems: contributions of the ILTER to a partnership
- pag. 31 > PL08 - Patterns of plant invasions in and from central europe
- pag. 32 > RT03 - Enhancing synergies among research infrastructures and joint programming initiatives on key environmental priorities
- pag. 32 > S26 - Long-term ecological research: environmental signals and large scale insights from a global network - ILTER
- pag. 32 > CS11 - Macroecology & scaling
- pag. 32 > CS09 - Ecological modelling & body sizes allometries and patterns
- pag. 33 > CS10 - Population and community ecology, food webs networks and complexity
- pag. 33 > CS12 - Biogeography and landscape ecology
- pag. 34 > S27 - Sustainability education for a new citizenship
- pag. 34 > CS13 - Biogeochemistry in terrestrial & aquatic ecosystem
- pag. 34 > CS14 - Ecology & society



Friday, September 25th 2015

NUTRITION AND RESOURCES

- pag. 35 > [PL09](#) - Vulnerability and resilience of coastal ecosystems and fisheries to climate change
- pag. 35 > [CS15](#) - Physiological ecology
- pag. 35 > [CS16](#) - Conservation ecology
- pag. 36 > [CS17](#) - Ecosystem services & social benefits
- pag. 36 > [CS10](#) - Population and community ecology, food webs networks and complexity
- pag. 37 > [S28](#) - Networks of marine protected areas in the Mediterranean and the Black seas: The Coconet Project
- pag. 38 > [S29](#) - Stable isotopes in ecology: crossing boundaries across disciplines and scales
- pag. 38 > [RT04](#) - Roma e le sue acque. Verso una progettualità
- pag. 38 > Closing ceremony

pag. 05 > PLENARY SESSIONS

pag. 39 > POSTERS

pag. 48 > SIDE EVENTS

pag. 49 > PATRONAGES, SPONSORSHIPS & EXHIBITIONS





PLENARY SESSIONS



Matthias Gross

Department of Urban and Environmental Sociology,
Helmholtz Centre for Environmental Research GmbH -
UFZ, DE

Sociology, Ecology and Environmental Sustainability

Matthias Gross is Professor of Environmental Sociology at Helmholtz Centre for Environmental Research – UFZ, Leipzig, and, by joint appointment, the University of Jena, Germany.

His research includes the sociology of energy transitions, public perception of subterranean geology, ecological restoration and design, decision making under situations of ignorance, and theories of sustainability.

He is author of several books including *Ignorance and Surprise: Science, Society and Ecological Design* (2010, MIT Press) and *Renewable Energies* (with Rüdiger Mautz, 2014, Routledge).

Together with Linsey McGoey he is currently editing the *Routledge International Handbook of Ignorance Studies* (2015).



Jef Huisman

Institute for Biodiversity and Ecosystem Dynamics,
University of Amsterdam, NL

Volterra's legacy: variations and fluctuations in the numbers of coexisting species

Prof. Jef Huisman is fascinated by questions on species coexistence and the response of the species composition of natural communities to changing environmental conditions.

He uses freshwater and marine plankton communities as simple model systems to study species interactions such as competition and predation, combining mathematical models, laboratory experiments and field research. In particular, his work aims at an improved understanding of competition for limiting resources, the causes and consequences of species fluctuations, and how these may affect the biodiversity of natural communities.

In addition, Huisman also has a keen interest in the effects of climate change on aquatic ecosystems, with a particular emphasis on harmful algal blooms.

Jef Huisman leads the Department of Aquatic Microbiology at the University of Amsterdam, has served in numerous scientific advisory committees, and is Editor of the Aquatic Ecology Series of Springer.



David Inouye

Department of Biology, University of Maryland (UMD),
USA

The effects of climate change on phenology of wildflowers and animals in the Colorado Rocky Mountains

David Inouye is Professor Emeritus in the Department of Biology at the University of Maryland, and Principal Investigator at the Rocky Mountain Biological Laboratory, where he began work in 1971.

His research in Colorado focuses on long-term projects initiated in 1973 on the phenology and abundance of flowering, how they are responding to the changing environment, and how those changes are affecting consumers such as pollinators and herbivores.

He is President of the Ecological Society of America, a member of the Advisory Committee of the USA National Phenology Network, Chair of the Steering Committee for the North American Pollinator Protection Campaign, and a Lead Author for the report on pollinators by the Intergovernmental Panel on Biodiversity and Ecosystem Services.



Christopher Kennedy

Department of Civil Engineering, University of Toronto, CA

Metabolism of Megacities

In his research, Dr. Kennedy applies principles of Industrial Ecology to the design of urban infrastructure, including study of urban metabolism and its relations to global environmental challenges.

He is author of *The Evolution of Great World Cities: Urban Wealth and Economic Growth*. In 2011, Chris was seconded to the OECD in Paris, to support the Working Party on Climate Investment and Development.

He is President of the International Society for Industrial Ecology.



Ingolf Kuehn

Department of Community Ecology, Helmholtz Centre for Environmental Research GmbH - UFZ, DE

Patterns of Plant Invasions in and from Central Europe

Ingolf Kuehn is researcher at the Helmholtz Centre for Environmental Research – UFZ and professor for macroecology at the Martin-Luther University Halle-Wittenberg.

His research focuses on the impact of Global Change on biodiversity and ecosystems. Namely, he is interested in determinants of plant species ranges and functional trait composition of communities in relation to climate, land-use and alien species.

To this end, he improves existing and develops new approaches for spatial analyses in ecological context.

He published >100 papers in international peer reviewed journals and is listed as “Highly Cited Researcher”.



Fiorenza Micheli

Hopkins Marine Station, Standford University, USA

Vulnerability and resilience of coastal ecosystems and fisheries to climate change

Fiorenza Micheli’s research focuses on the processes shaping coastal marine communities, and on incorporating this understanding in the management and conservation of marine ecosystems.

Her research applies marine community ecology to increase our understanding of human impacts on the marine environment and to design conservation and restoration strategies.

Examples include quantifying the joint effects of increased nutrient loading and fishing on marine ecosystems, and incorporating our understanding of diversity patterns, species interactions, and habitat-species linkages in the design and evaluation of marine reserves.



Florian Musso

Department of Architecture, Technische Universität München, DE

The Ecology of Architecture

Professor Musso carries out research in the fields of construction materials and subsystems in industrial construction.

After studying architecture at Stuttgart University and UVA in Charlottesville, USA, Professor Musso worked as an architect and assistant at ETH Zurich, ETH Lausanne and RWTH Aachen.

Before taking up his post at TUM in 2002, he was a lecturer at EIA Fribourg, Switzerland, and a guest professor at the University of Pennsylvania in Philadelphia, USA.

He was also a guest professor at the University of Arizona in Tucson, USA in 2005.

Together with Claudine Lorenz, Professor Musso has been running an architect's office in Sion, Switzerland since 1988 and in Munich since 2002.



Antonello Provenzale

Institute of Geosciences and Earth Resources, National Research Council, IT

Global change and ecosystem response: Cross-scale interactions and the chain of uncertainties

Prof. Provenzale is Director of the Institute of Geosciences and Earth Resources, at the National Research Council of Italy.

His research focuses on earth system science, impacts of global change on ecosystems and the hydrological cycle and on climate-biosphere interaction.

He is the coordinator of the MIUR National Project of Interest "NextData", the GEO Ecosystem Societal Benefit Action, the GEO Global Network on Observations and information in Mountain Environments (GEO-GNOME), the Program "Changes in the hydrological cycle" of the European Climate Research Alliance (ECRA).

Associate Editor of the journal "Environmental Science and Policy", author of more than 150 papers in the international scientific literature, he is the Editor of four volumes and of two journal special issues.



Riccardo Valentini

Department Sciences of Forest Ecosystems and their Resources, Tuscia University, IT. Haeckel Prize Winner.

The coupled human - climate system: future challenges and vulnerabilities

Riccardo Valentini is full Professor of Forest Ecology at the University of Tuscia, Italy.

He is also appointed as coordinator of the Megagrant n.221 of the Russian Ministry of Science and Technology leading a group of about 40 scientists at the Russian State Agriculture University in Moscow.

Currently is also strategic Director of the CMCC (Euromediterranean Center for Climate Change).

Prof. Riccardo Valentini published in total 258 publications, of which 11 in highly cited journals (such as Nature (6), Science (4) and Nature Geoscience (1)) and 6 books.

Prof. Valentini's papers has been cited 14503 times since 1996. Prof. Valentini H factor is 55 according to Scopus.

Recently he has been appointed from Thomson Reuters to be within the 1% of the most cited scientist in the world.



Key Ecology Journals from Wiley



Impact Factor 10.689

- No. 1 research journal in Ecology



Impact Factor 8.044

- No. 1 in Biodiversity Conservation
- No. 5 journal in Ecology



Impact Factor 7.672

- Owned by a not-for-profit trust
- Rapid review and publication



Impact Factor 6.554

- No. 9 journal in Ecology
- No. page charges



Impact Factor 4.165

- SCB's flagship journal for over 25 years
- No. 5 journal in Biodiversity Conservation



Impact Factor 2.32

- Wiley's Open Access journal in Ecology & Evolution

Wiley Author Benefits

OnlineOpen

You are able to make your article open access in subscription journals



Measuring the broader impact of your paper in a Wiley Journal

Anywhere Article

Provides a rich reading environment for you to showcase your work



Helping you explain, enrich, and share your paper for greater research impact



Making it easier for researchers to discover, access, and interact with your published work

Wiley Editing Services

Expert help to ensure your paper is ready for submission



@BioSciNews



@Darwin 2009



@PlantSciNews



Ecology, Conservation & Evolution

keep up to date with all the news!

To find out more about our Ecology portfolio visit: www.onlinelibrary.wiley.com/subject/ecology

WILEY



Monday, September 21st 2015

GLOBAL CHANGE AND SUSTAINABILITY



13:30 - 14:30

OPENING CEREMONY - *Hernst Haeckle Prize* - Hall 1

14:30 - 15:15

PL01 - THE COUPLED HUMAN - CLIMATE SYSTEM: FUTURE CHALLENGES AND VULNERABILITIES 

Riccardo Valentini - Hall 1

15:15 - 18:45

CS01 - ECOTOXICOLOGY 

Chair: *Aldo Viarego* - Hall 2

15:15 - CS01.1 - Toxic and genotoxic effects of different pesticides and their mixtures on the non-target model organism *Eisenia andrei*: laboratory and field studies

Susanna Sforzini, Marta Boeri, Laura Oliveri, Aldo Viarengo

15:30 - CS01.2 - Toxicological effects in soil and water bioindicators exposed to olive mill waste before and after dephenolisation treatment

Tommaso Campani, Ilaria Caliani, Chiara Pozzuoli, Enrico Pagano, Giada Beligni, Maria Cristina Fossi, Silvia Casini

15:45 - CS01.3 - Long-term toxicity of nanoplastics to marine plankton species *Dunaliella tertiolecta* and *Artemia salina*

Elisa Bergami, Loredana Manfra, Federica Savorelli, Kenneth A. Dawson, Ilaria Corsi

16:00 - CS01.4 - DDT and Hg contamination of Toce River (Italy): studies for evaluating the on-site bioavailability (use of passive samplers and benthic invertebrates)

Francesca Pisanello, Laura Marziali, Federica Rosignoli, Licia Guzzella, Davide Rabuffetti

16:15 - CS01.5 - Effects of contaminants on the autophagic process in mussels: new insights and possible applications

Aldo Viarengo, Michael N Moore, Caterina Oliveri, Yann Aminot, James W. W. Readman, Mohamed Banni, Susanna Sforzini

16:30 - 17:00

COFFEE BREAK / POSTER SESSION 

17:00 - CS01.6 - Elucidating the free fatty acid profile of caged mussels, *Mytilus galloprovincialis*, for the assessment of environmental pollution
Ambrogina Albergamo, Francesca Rigano, Danilo Sciarrone, Giorgia Purcaro, Salvatore Fasulo, Angela Mauceri, Luigi Mondello

17:15 - CS01.7 - Evaluation of the impact of environmental contaminants of coastal areas subject to pre- and post-bioremediation by the application of genotoxicity biomarkers in mussels *Mytilus galloprovincialis*
Ilaria Caliani, Stefania Ancora, Nicola Bianchi, Letizia Marsili, Simone Cappello, Giuseppe Mancini, Claudio Leonzio, Salvatore Fasulo

17:30 - CS01.8 - An interdisciplinary approach to characterize seagrasses: the study of *Halophila stipulacea* meadows in the Gulf of Aqaba by morphological, biochemical descriptor and epiphytic microbial communities
Luciana Migliore, Astrid Y. Mejia, Alice Rotini, Maria Cristina Thaller, Gidon Winters

17:45 - CS01.9 - Macrofaunal community as indicator of sandy beaches environmental quality
Giovanna Di Donato, Valerio Ketmaier, Andrea Setini, Elvira De Matthaëis

18:00 - CS01.10 - Macroalgal seasonality effect on CARLIT methodology
Gina de la Fuente, Valentina Asnaghi, Federico Gaino, Mariachiara Chiantore

18:15 - CS01.11 - A novel biotechnological tool to monitor trace elements and PAHs based on a devitalized moss clone: the MOSSclone output
J. Aboal, P. Adamo, R. Bargagli, A.K. Beike, M. Bowkett, F. Capozzi, C. B. Carbal-leira, E. Concha-Grana, D. Crespo Pardo, E. L. Decker, A. Di Palma, J. A. Fernandez, V. Fernandez, S. Giordano, A. G. Gonzalez, S. Iglesias-Samitier, P. Lopez Mahia, S. Muniategui, P. Piñeiro-Iglesia, O. S. Pokrovsky, R. Reski, A. I. Rey-Asensio, V. Spagnuolo, Mauro Tretiach

18:30 - CS01.12 - Going beyond the WEEE Directive: examples of waste management options that create advantages for the environment
Viviana Fonti, Laura Rocchetti, Alessia Amato, Francesca Beolchini

15:15 - 18:45

CS02 - GLOBAL CHANGE ECOLOGY 

Chair: **Cristina Maguas** - Hall 1

15:15 - CS02.1 - Climate-induced environmental stress in intertidal grazers: scaling-up biochemical responses to population - level processes
Elena Maggi, Mario Cappiello, Antonella Del Corso, Francesca Lenzarini, Eleonora Peroni, Lisandro Benedetti-Cecchi

15:30 - CS02.2 - Mesocosm experiment of increasing temperature and effects on the plankton community of a Mediterranean lagoon
Andreas Brutemark, Sanna Suikkanen, Silvia Pulina, Bachisio Mario Padedda, Lorena Grubisic, Cecilia Teodora Satta, Tiziana Caddeo, Pasqualina Farina, Nicola Sechi, Antonella Lugliè

15:45 - CS02.3 - Community and trophic structure of amphipod assemblages associated to *Posidonia oceanica* in a shallow volcanic CO₂ vent
Valentina Costa, Salvatrice Vizzini, Antonio Mazzola

16:00 - CS02.4 - Weak and slow response of high elevation grasslands under global change
Iker Pardo, Arantza Aldezabal, Ricardo García-González, Daniel Gómez, Daniel F. Doak, María B. García

16:15 - CS02.5 - Short- and Long-Term effects of an absent snow cover on boreal forest plants
Gesche Blume-Werry

16:30 - 17:00

COFFEE BREAK / POSTER SESSION 

17:00 - CS02.6 - Seasonal trophic niche shift in Antarctic benthic consumers
Edoardo Calizza, Maria Letizia Costantini, Loreto Rossi

17:15 - CS02.7 - Integrated assessment of Canadian forest vulnerability to climate change
Isabelle Aubin, Hedi Kebli, Alison Munson, Françoise Cardou, John Pedlar, Daniel McKenney, Nathalie Isabel, Ted Hogg, Catherine Ste-Marie

17:30 - CS02.8 - Assessing population-level responses in plant communities affected by drought-induced die-off through species bioclimatic niches
Francisco Lloret

17:45 - CS02.9 - Distinct effects of drought on plant shoot and root traits and ecological interaction
Sandra Kleine, Caroline Müller

18:00 - CS02.10 - Life-history traits and response to global climate-changes: insights from the past
Daniele Porretta, Valentina Mastrantonio, Sandra Urbanelli

18:15 - CS02.11 - Decadal change in rocky reefs: the importance of observational ecology
Giulia Gatti, Carlo Nike Bianchi, Monica Montefalcone, Sara Venturini, Carla Morri

18:30 - CS02.12 - Response of soil microorganisms to summer flooding as affected by plant diversity
Odette Gonzalez, Stefan Scheu

15:15 - 18:45

CS03 - AQUATIC ECOLOGY

Chairs: **Marco Bartoli, Antonio Pusceddu, Salvatrice Vizzini** - Hall 7

15:15 - CS03.1 - Effects of different climate-related episodic events on the benthic trophic status and biodiversity of European continental margins
Antonio Pusceddu, Roberto Danovaro

15:30 - CS03.2 - Insights on the tolerance and resilience of Mediterranean seagrasses to short-term heat waves
Lazaro Marin-Guirao, Emanuela Dattolo, Juan Manuel Ruiz, Gabriele Procaccini

15:45 - CS03.3 - Towards a framework for assessment and management of regional vulnerability of marine coastal priority habitats
Giulio Farella, Francesco De Leo, Luigi Maiorano, Simonetta Frascchetti

16:00 - CS03.4 - When the invasion of freshwater failed: the case of aquatic insects
Stefano Fenoglio, Nuria Bonada, Simone Guareschi, Andrés Millán, Manuel Jesús López Rodríguez, José Manuel Tierno de Figueroa

16:15 - CS03.5 - Biological trait profiles of the 68 most widespread non-indigenous species in the European seas
Alice Cardeccia, Agnese Marchini, Bella S. Galil, Stephan Gollasch, Dan Minchin, Aleksas Narščius, Anna Occhipinti-Ambrogi, Sergej Olenin, Henn

16:30 - 17:00

COFFEE BREAK / POSTER SESSION 

17:00 - CS03.6 - Evaluating the potential of ecological niche modelling as a component in marine non-indigenous species risk assessments
Sonja Leidenberger

17:15 - CS03.7 - *Aurelia aurita* ephyrae effect on a coastal microbial community
Luca Zoccarato

17:30 - CS03.8 - An integrated observatory for the study of marine coastal ecosystems
Viviana Piermattei, Alice Madonna, Simone Bonamano, Riccardo Martellucci, Alberto Pierattini, Marta Albani, Cristiano Melchiorri, Giuseppe Zuppala, Marco Marcelli

17:45 - CS03.9 - A new framework for reliable estimates of gamma-diversity
Stanislao Bevilacqua, Adriana Plicanti, Karl Inne Ugland, Antonio Terlizzi

18:00 - CS03.10 - PhytoVFP: a new bio-optical model to estimate phytoplankton primary production
Chiara Stefani, Simone Bonamano, Cristiano Melchiorri, Viviana Piermattei, Fabiola Fani, Luigi Lazzara, Franco Decembrini, Marco Marcelli

18:15 - CS03.11 - Large spatial scale metagenetic analysis of zooplankton of the Adriatic Sea
Sergio Stefanni, Valentina Tirelli, Diego Borme, Alessandra de Olazabal, Tea Juretić, Paola Del Negro, Alberto Pallavicini

18:30 - CS03.12 - The effect a seal exclusion device has on catches in a pon-toon trap for salmonids
Linda Calamnius, Mikael Lundin, Arne Fjälling, Sara Königson, Nils Ryrholm

15:15 - 19:00

S01 - PLANT TRAITS -
A TOOL TOWARDS A MORE PREDICTIVE ECOLOGY? 

Convener: *Jens Kattge* - Hall 3

15:15 - S01.1 - From plant traits to ecosystem processes: bridging ecophysiology and macroecology
Iain Colin Prentice, Han Wang, Changhui Peng, William K. Cornwell, Tyler W. Davis, Ning Dong, Bradley J. Evans, Trevor F. Keenan, Yan-Shih Lin, Benjamin D. Stocker, Henrique F. Togashi, Ian J. Wright.

15:45 - S01.2 - Using functional traits to model plant species' sensitivity to land-use change
Andy Purvis, Tim Newbold, Rebecca A. Senior, Adriana De Palma, Sandra Díaz, Jens Kattge, the PREDICTS team

16:00 - S01.3 - A global view and measurement of plant ecological strategies
Simon Pierce, Daniel Negreiros, Bruno E.L. Cerabolini, The TRY consortium

16:15 - S01.4 - Predictive trait-based community ecology and biogeography: promises and limits
Cyrille Violle

16:30 - 17:00

COFFEE BREAK / POSTER SESSION 

17:00 - S01.5 - Re-visiting historical semi-natural grasslands plots to assess shifts in plant functional traits.
Sabina Burrascano, Eleonora Giarrizzo, Laura Zattero, Laura Facioni, Francesco De Bello, Carlo Blasi

17:15 - S01.6 - Nitrogen deposition in Europe and trade-offs for soil decomposition and pollination services.
Christian Mulder

17:30 - S01.7 - Considerations on a data-driven approach to identify plant's imprint on ecosystem functioning.
Talie Musavi, Jens Kattge, Miguel D. Mahecha, Markus Reichstein, Martine Janet van de Weg, Peter M. van Bodegom, Michael Bahn, Mirco Migliavacca, Christian Wirth, Peter B. Reich

17:45 - S01.8 - Using ecosystem level CO₂ fluxes, hyperspectral remote sensing and plant traits to evaluate the effects of nutrient availability on the functioning of a Mediterranean grassland

Mirco Migliavacca, Oscar Pérez-Priego, Micol Rossini, Gerardo Moreno, Jinhong Guan, Arnaud Carrara, Francesco Fava, Markus Reichstein

18:00 - S01.9 - Incorporating imputation and data uncertainty into a tree functional trait database

Rafael Poyatos, Oliver Sus, Albert Vilà-Cabrera, Jordi Vayreda, Sandra Saura-Mas, Maurizio Mencuccini, Jordi Martínez-Vilalta.

18:15 - S01.10 - Gap-filling for multivariate plant trait analyses – trait prediction using Bayesian Hierarchical Probabilistic Matrix Factorization

Julia Joswig, Jens Kattge, Farideh Fazayeli, Hanhuai Shan, Miguel Mahecha, Markus Reichstein, Arindam Banerjee, Peter Reich, Björn Reu, Franziska Schrod, Christian Wirth

18:30 - S01.11 - Diversifying plant traits in a DGVM – the LPJmL-FIT approach

Kirsten Thonicke, Boris Sakschewski, Alice Boit, Werner von Bloh

18:45 - S01.12 - Trait-based ecosystem modeling: projecting traits, communities and functional diversity

Simon Scheiter, Liam Langan, Mirjam Pfeiffer, Steven I. Higgins

15:15 - 19:00

S02 - THE (MACRO)ECOLOGY OF ANIMAL SPECIES DECLINE



Conveners: **Carlo Rondinini**, **Moreno Di Marco**, **Luca Santini**, **Michela Pacifici** - Hall 4

15:15 - S02.1 - Defaunation in the Anthropocene: response of animal populations to human mediated drivers

Ben Collen

15:45 - S02.2 - Contrasting changes in the abundance and diversity of North-American bird assemblages

Aafke M. Schipper, Jonathan Belmaker, Carlo Rondinini, Henrique M. Pereira

16:00 - S02.3 - Beyond correlation: searching for the mechanisms by which species' traits influence extinction risk

Manuela González-Suárez, Alejandro Gonzalez-Voyer, Carles Vilà, Eloy Revilla

16:15 - S02.4 - Importance of intrinsic and extrinsic characteristics to identify hotspots of mammal species at risk from climate change

Michela Pacifici, Piero Visconti, Carlo Rondinini

16:30 - 17:00

COFFEE BREAK / POSTER SESSION

17:00 - S02.5 - Sea level rise and the decline of water-birds in Europe

Luigi Maiorano, Achilleas Psomas, Niklaus E. Zimmermann, Moreno Di Marco, Alessandro Montemaggiore

17:15 - S02.6 - "The bigger they are, the harder they fall"? Organism size and species' sensitivity to land-use impacts

Tim Newbold, **Andy Purvis**, Lawrence Hudson, the PREDICTS team

17:30 - S02.7 - Human-driven body size reduction in terrestrial mammal communities

Luca Santini, Moreno Di Marco

17:45 - S02.8 - Setting equitable conservation targets: biological predictors of species persistence

Jelle P. Hilbers, L. Santini, P. Visconti, A.M. Schipper, C. Rondinini, M.A.J. Huijbregts

18:00 - S02.9 - Mammalian phylogenetic diversity-area relationships at a continental scale

Florent Mazel, Julien Renaud, François Guilhaumon, David Mouillot, Dominique Gravel, Wilfried Thuiller

18:15 - S02.10 - Macroecological patterns of distribution and endemism of European montane mammals

Giovanni Amori, L. Boitani, L. Luiselli, G. Milana, L. Maiorano

18:30 - S02.11 - Projected effect of global change on European large mammals

Carlo Rondinini, Piero Visconti

15:15 - 19:00

S03 - BIO-MONITORING: LESSONS FROM THE PAST, CHALLENGES FOR THE FUTURE



Convener: **Rossano Bolpagni** - Hall 5

15:15 - S03.1 - The living stream: a functional approach
Richard W. Merritt

15:45 - S03.2 - Freshwater diatoms as indicators of environmental change: from the community to the cell level
Salomé F.P. Almeida

16:15 - S03.3 - Assessing the health of freshwaters and their potential to provide ecosystem services
Laurence Carvalho

16:30 - 17:00

COFFEE BREAK / POSTER SESSION 

17:00 - S03.4 - How do within site variability of detection probability and abundance of macroinvertebrates affect the result of multimetric index?
Alex Laini, Simone Guareschi, Rossano Bolpagni

17:15 - S03.5 - Natural dynamics affect submerged aquatic vegetation depth distribution, diversity and abundance in deep lakes: implications for the biomonitoring
Mattia M. Azzella, Alex Laini, Rossano Bolpagni

17:30 - S03.6 - Mapping macrophyte functional groups using multi-temporal satellite data: approach overview and capabilities
Paolo Villa, Mariano Bresciani, Monica Pinardia, Rossano Bolpagni, Claudia Giardino

17:45 - S03.7 - Steps towards protocols for including lichens in routine monitoring of freshwater habitats as part of the implementation of the EU Water Framework Directive
Holger Thüs, Juri Nascimbene

18:00 - S03.8 - A new European standard for lichen biomonitoring: research supports application
Paolo Giordani

18:15 - S03.9 - Plant strategies as biological indicators of ecosystem services
Bruno E.L. Cerabolini, Simon Pierce

18:30 - S03.10 - Soil fauna in health and soil quality monitoring
Cristina Menta

15:15 - 19:00

S04 - THE SOUNDSCAPE ECOLOGY: A NEW FRONTIER OF THE ECOLOGICAL INVESTIGATION



Convener: **Almo Farina** - Hall 6

15:15 - S04.1 - The role of natural and anthropogenic sounds in the ecological dynamics of animal communities
Almo Farina

15:45 - S04.2 - Socio-ecological soundscapes – portraits of reality
Philip James

16:15 - S04.3 - Interspecific acoustic
Diego Llusia, Thierry Aubin, Jérôme Sueur

16:30 - 17:00

COFFEE BREAK / POSTER SESSION 

17:15 - S04.4 - Soundscape of different marine coastal ecosystem
Buscaino Giuseppa, Filiciotto F., Maccarrone V., Ceraulo M., Grammauta M., Corrias V., Di Stefano V., Mazzola S., Galli P., Montano S., Seveso D., Di Fiore V., Punzo M., Scotto P., Pelosi N., Cavuoto G., Tarallo D., Iavarone M., Scotto di Vettimo P.

17:45 - S04.5 - The soundscape of *Posidonia oceanica* ecosystem: temporal and spatial patterns
Maria Ceraulo, Almo Farina, Elena Papale, Valentina Corrias, Giovanni De Vincenzi, Francesco Caruso, Vincenzo Di Stefano, Vincenzo Maccarrone, Francesco Filiciotto, Salvatore Mazzola, Giuseppa Buscaino

18:15 - S04.6 - Anthropogenic noise in the central Mediterranean sea: model, direct measurements and management indications
Grammauta R., Viola S., Caruso F., Chierici F., Embriaco D., Favali P., Filiciotto F., Giovanetti G., Larosa G., Maccarrone V., Marinaro G., Mazzola S., Pavan G., Pulvirenti S., Riccobene G., Sciacca V., Simeone F., Buscaino Giuseppa





Tuesday, September 22nd 2015

URBAN ECOSYSTEMS AND RESILIENCE

08:30 - 09:15

PL02 - SOCIOLOGY, ECOLOGY AND ENVIRONMENTAL SUSTAINABILITY 

Matthias Gross - Hall 1

09:15 - 10:00

PL03 - THE ECOLOGY OF ARCHITECTURE 

Florian Musso - Hall 1

10:00 - 10:30

COFFEE BREAK / POSTER SESSION 

10:30 - 13:15

S05 - HIDDEN AND DARK BIODIVERSITY - FROM MOLECULES TO MACROECOLOGY 

Convener: *Martin Zobel* - Hall 1

10:30 - S05.1 - Observed and dark diversity of plants at the European scale.
Meelis Pärtel

11:00 - S05.2 - Tracking biodiversity via DNA metabarcoding
Pierre Taberlet

11:30 - S05.3 - Recent speciation and rapid evolutionary adaptation in polar bears
Eline Lorenzen

11:45 - S05.4 - Revealing plant belowground diversity - do known patterns remain?
Inga Hiiesalu

12:00 - S05.5 - Dark horses and black panthers - ecological and conservation perspectives on dark megafaunal diversity
Jens-Christian Svenning

12:15 - S05.6 - Global assessment of arbuscular mycorrhizal fungus diversity reveals very low endemism
John Davison, Mari Moora, Maarja Öpik, Martti Vasar, Martin Zobel

12:30 - S05.7 - The magnitude of dark diversity across taxa and scales
Jonathan Belmaker

12:45 - Discussion: are there hidden patterns of diversity and what do they tell us?

Martin Zobel

10:30 - 13:00

S06 - LIGHT POLLUTION SYMPOSIUM 

Convener: *Fabio Falchi* - Hall 2

10:30 - S06.1 - The new world Atlas of artificial sky brightness
Fabio Falchi

10:45 - S06.2 - Day-time and night-time plant-pollinator interaction networks
Eva Knop, Ryser R., Gerpe C.

11:00 - S06.3 - The effects of increasing intensity of light at night on gene expression in the brain, liver, spleen and testes of birds: implications for the health of wild
Davide M. Dominoni, M de Jong, JE Clark, P O'Shaughnessy, K Van Oers, V. Zaninotto, ME Visser, B Helm

11:15 - S06.4 - Dark-night ecotones: the economics of global night sky conservation
Terrel A. Galloway

11:30 - S06.5 - Emerging population effects of long-term artificial illumination of a forest edge ecosystem
Marcel E. Visser, Roy H.A. van Grunsven, Frank Berendse, Elmar M. Veenendaal, Kamiel Spoelstra

12:00 - S06.6 - Microbial diversity and community respiration in freshwater sediments influenced by artificial light at night
Franz Hölker, Christian Wurzbacher, Carsten Weißenborn, Michael T. Monaghan, Stephanie I. J. Holzauer, Katrin Premke

10:30 - 14:00

S07 - SCALE NON-LINEARITY OF DRIVERS OF ENVIRONMENTAL CHANGE, AND SCALE MISMATCHES IN NATURE CONSERVATION GOVERNANCE



Convener: **Joseph Tzanopoulos** - Hall 3

10:30 - Introduction
Klaus Henle, Joseph Tzanopoulos

11:00 - S07.1 - Temporal biodiversity changes across scales
Stefano Larsen, Jonathan Chase, Steve Ormerod

11:30 - S07.2 - Spatial structuration of anthropogenic drivers of environmental change in coastal areas
Pascal Marty, Jonathan Daeden

12:00 - S07.3 - Intergovernmental fiscal transfers to support local conservation action in Europe
Irene Ring, Christoph Schröter-Schlaack, Thomas Koellner, Rui Santos, Paula Antunes, Pedro Clemente, Raphaël Mathevet, Maud Borie, Małgorzata Grodzińska-Jurczak

12:30 - S07.4 - Scale mismatches of biodiversity governance – How to successfully combine voluntariness and ecological targeting of conservation?
Riikka Paloniemi, Teppo Hujala, Salla Rantala, Anna Salomaa, Annika Harlio, Sari Pynnönen, Eeva Primmer, Outi Ratamäki, Mikko Kurttila, Anni Arponen

13:00 - S07.5 - Biodiversity offsetting in England: governance rescaling, socio-spatial injustices and the neoliberalisation of nature
Elia Apostolopoulou

13:15 - S07.6 - Scale, habitat banking, green infrastructure and nightingale ecology: the story – so far – of the Lodge Hill development site in the UK
Dimitrios Bormpoudakis, Joseph Tzanopoulos

10:30 - 14:00

S08 - FRONTIERS IN ECOLOGICAL ECONOMICS: TOWARDS THE CIRCULAR AND LOW CARBON ECONOMY



Convener: **Massimiliano Mazzanti** - Hall 6

10:30 - Introduction
Massimiliano Mazzanti

10:45 - S08.1 - Patterns of sustainable consumption and production in European countries
Giovanni Marin

11:15 - S08.2 - Nature from Sumak Kawsay to Buen Vivir: from cosmovision to neoextractivism.
Andrea Cori, Salvatore Monni, Massimo Pallottino

11:45 - S08.3 - The economics of carbon costing.
Silvana Dalmazzone, Alice Damiano, Vito Frontuto

12:00 - S08.4 - Vulnerability, hazard, risk, loss and resilience: a socio-ecological framework for natural disasters.
Marco Modica

12:30 - S08.5 - Eco innovations in a systemic and evolutionary view.
Claudia Ghisetti

13:00 - S08.6 - Environmental inequality and mortality rate: an empirical investigation on Italian municipalities.
Nicolò Barbieri

13:30 - S08.7 - Projecting the future potential of shellfish sector in the Mediterranean sea and possible economic rebounds.
Valeria Montalto, Silvana Dalmazzone, Vito Frontuto, Lidia Primiani, Brian Helmuth, Gianluca Sarà

10:30 - 14:00

S09 - ENERGY AND MATERIAL FLOWS IN MEGACITIES



Organizer: **Angelo Facchini** - Hall 5

10:30 - S09.1 – The “electric city” as a solution for urban sustainability
Angelo Facchini

11:00 - S09.2 - Transformation of megacities through low carbon electrification
Christopher Kennedy

11:30 - S09.3 - Urban metabolism of megacities: a comparative study
Iain D. Stewart

12:00 - S09.4 - Downscaling London’s domestic energy consumption
James Keirstead

12:30 - S09.5 - The role of utilities in the urbanization of 21st Century
Renata Mele

13:00 - S09.6 - Presentation of the volume "Cities in the 21st Century. Academic visions on urban development"
Renata Mele

10:30 - 14:00

S10 - CELEBRATORY SYMPOSIUM FOR ESA CENTURY ANNIVERSARY



Convener: **Jill Baron** - Hall 7

10:30 - Introduction - Ecological milestones from the ESA Centennial meeting
Jill Baron, Nancy Huntly, David W. Inouye

10:45 - S10.1 - Putting people into ecological models to understand past and future human ecology
Nancy Huntly

11:15 - S10.2 - Worldwide nitrogen management challenges for a crowded planet
Jill Baron

11:45 - S10.3 - Plants and insects in a changing world
David W. Inouye

12:15 - S10.4 - The Emergence and Relevance of Urban Ecology in the United States
Richard W. Pouyat

12:45 - S10.5 - The rise of ecosystem ecology and its applications to environmental challenges
Robert G. Woodmansee

13:15 - S10.6 - FUTURE EARTH: Integrative socio-ecological framing of the research strategy to address global environmental challenges
Dennis Ojima

10:30 - 19:00

S11 - PHYTOPLANKTON TRAITS, FUNCTIONAL GROUPS AND COMMUNITY ORGANIZATION IN THE PERSPECTIVE OF GLOBAL ENVIRONMENTAL CHANGE



Conveners: **Elena Litchman, Leonilde Roselli** - Hall 4

10:30 S11.1 – Trait-based approaches to phytoplankton ecology and evolution
Elena Litchman

11:00 - S11.2 - Phytoplankton size: Do marine phytoplankton follow Bergmann's rule?
Ulrich Sommer, Kalista Higini Peter, Maria Moustaka-Gouni

11:15 - S11.3 - Do phytoplankton traits do what we hypothesize in trait based ecology?
Ursula Gaedke, Toni Klauschies, A. Horn, Guntram Weithoff

11:30 - S11.4 - Mixotrophy in bacterivorous flagellates - shedding light on a neglected trait
Robert Ptacnik, Robert Fischer, Claudia Pezzei, Thomas Fleischhacker

11:45 - S11.5 - Phytoplankton diversity, production, and community composition in relation to nutrient availability and imbalance
Sirpa Lehtinen, Timo Tamminen, Robert Ptacnik, Tom Andersen

12:00 - S11.6 - Phytoplankton responses to global warming and increasing human exploitation of inland and coastal waters
Kirsten Ollrik

12:15 - S11.7 - Signal of biotic interactions in the phytoplankton community composition
Riina Klais, Sirpa Lehtinen, Timo Tamminen, Veera Norros, Kalle Olli

12:30 - S11.8 - Patterns of phytoplankton community in the lagoon of Venice: a trait-based analysis
Fabrizio Bernardi Aubry, Alessandra Puggnetti, Leonilde Roselli, Francesco Aciri, Stefania Finotto and Alberto Basset

12:45 - S11.9 - Assessment of surface waters quality based on monitoring of phytoplankton community structure in six Apulian (Italy) Artificial Lakes
Maria Rosaria Vadrucchi, Tiziana Di Festa, Michela Ingaramo, Anna Maria Pastorelli, Rosaria Petruzzelli, Enrico Barbone, Nicola Ungaro, Antonella Romano, Roberto Bucci

13:00 - S11.10 – Phytoplankton assemblage self-organization, emerging species traits and competition under a pulsed nutrient regime
Sofie Spatharis, Lydia Papanikolopoulou, Evangelia Smeti, Daniel L. Roelke

13:15 - S11.11 - Use of morphofunctional classifications in phytoplanktonic communities of eutrophic lakes

Letícia Barbosa Quesado, Waldenilia Daniele Pereira de Farias, Camila Rodrigues Cabral, Fabíola da Costa Catombé Dantas, André Megali Amado, Vanessa Becker, Adriano Caliman, Luciana Silva Carneiro

13:30 - S11.12 - Diurnal light oscillation as a contributing process for niche creation and biodiversity patterns

Ioannis Tsakalakis, Alexey Ryabov, Bernd Blasius, Markus Pahlow, Andreas Oschlies

13:45 - S11.13 - Phytoplankton networks embedded within regional species pools as a key factor shaping beta diversity

Androniki Tamvakis, Sofie Spatharis, George Tsirtsis

14:00 - 15:00

LUNCH / POSTER SESSION 

15:00 - S11.14 - Automated determination and quantification of filamentous toxic cyanobacterial genera by spline curves, pattern recognition and machine learning

Emanuele Gandola, Alessio Traficante, Simone Franceschini, Michele Scardi, Roberta Congestri

15:15 - S11.15 - Species and shape diversity of phytoplankton along spatial and temporal gradients in the Florida Keys

Elena Stanca, Michael L. Parsons

15:30 - S11.16 - Evolutionary pressure on diatom life forms

Diana Sarno, Amato A., Dubroca L., D'Alelio D., Franzè G., Margiotta F., Mazzocchi M.G., Ribera d'Alcalà M., Zingone A., Iudicone D.

15:15 - S11.17 - Imperfect prey selectivity of predators promotes biodiversity and irregularity in food webs

Alexey B. Ryabov, Andrew Morozov, Bernd Blasius

16:00 - S11.18 - Functional diversity differs among life domains and major phylogenetic groups in the freshwater phytoplankton

Carla Kruk, Piccini C., Cabrera C., Carballo C., Sarthou F., Nogueira L., Colina, M., Segura A. M.

16:15 - S11.19 - Insights from a model of phytoplankton community properties

Esteban Acevedo-Trejos, Gunnar Brandt, Jorn Bruggeman, Agostino Merico

16:30 - 17:00

COFFEE BREAK / POSTER SESSION 

17:00 - S11.20 - A hierarchical individual-based approach to phytoplankton community organization

Leonilde Roselli, Litchman E., Stanca E., Cozzoli F., Basset A.

17:15 - S11.21 - Modelling dark respiration in marine phytoplankton

Mustafa Mantikci, Jørgen L. S. Hansen, Stig Markager

13:15 - 14:00

CS04 - BEHAVIOURAL ECOLOGY 

Chair: Thomas Alexander Vershut - Hall 2

13:15 - CS04.01 - Searching for food in complex environments: elucidating associational effects between resources

Thomas Alexander Vershut, Paul Becher, Peter Anderson, Peter Hambäck

13:30 - CS04.02 - Assessing landscapes of fear: effects of risk perception versus actual predator abundance on group structure and behaviour in a guanaco population in southern Patagonia

Esperanza Cristina Irazo, Heiko Wittmer, Juan Traba, Cristina Mata, Pablo Acebes, Cristian Estades, Benito Alejandro Gonzalez, Juan Esteban Malo

13:45 - CS04.03 - Is the behaviour associated with the movement of *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae) influenced by phosphine resistance genes?

Rokhsareh Malekpour

13:15 - 14:00

CS05 - BIODIVERSITY AND ECOSYSTEMS 

Chair: Giulia Ceccherelli, Simonetta Fraschetti, Alessandra Pugnetti - Hall 1

13:15 - CS05.01 - Do rare species matter for ecosystem multifunctionality?

Santiago Soliveres, Markus Fischer, Eric Allan

13:30 - CS05.02 - Herbivores, saproveres and natural enemies benefit differently from intra-field plant community of winter wheat

Berta Caballero Lopez, Jose Manuel Blanco-Moreno, Juli Pujade-Villar, Daniel Ventura, Josep Anton Sánchez-Espigares, Francesc Xavier Sans

13:45 - CS05.03 - Increase in predation rates along an experimental plant diversity gradient

Lionel Hertzog

14:00 - 15:00

LUNCH / POSTER SESSION 

17:00 - **CS05.04** - Species partition fine-scale gradients in light availability on their leaf functional traits in southern Chile
Alex Fajardo, Alfredo Saldaña, Andrew Siefert

17:15 - **CS05.05** - Do seedling traits reflect adult traits in vascular plants from the Himalayas?
Ines Abela Hofbauerova, Jiri Dolezal

17:30 - **CS05.06** - Environmental and trait variability constrain community structure and the biodiversity-productivity relationship
Alexey B. Ryabov

17:45 - **CS05.07** - Effects of land-use abandonment on taxonomic and functional biodiversity in semi-natural boreal ecosystems
Sølvi Wehn, Line Johansen, Simon Taugourdeau

18:00 - **CS05.08** - Exploring the functional significance of forest diversity: an update from the long-term biotree experiment
Charles Andrew Nock, Florian Härtig, Michael Scherer-Lorenzen

18:15 - **CS05.09** - Functional traits modulate the phenological advance of drylands species under warming
Enrique Valencia, Marcos Méndez, Noelia Saavedra, Fernando Tomás Maestre

18:30 - **CS05.10** - Succession-driven changes in the functional diversity of xerophytic shrub communities
Sergio Chozas

18:45 - **CS05.11** - Synthesis Centers: an essential tool in our complex, data-rich future
Marten Winter, Jill Baron, Alison Specht, Pamela Bishop, James Boyd, Andrew Campbell, Frank Davis, David Hawthorne, Colleen Jonsson, Jonathan Kramer, Thomas Meagher, Margaret Palmer, Claire Salomon, Diego Steinaker, Christian Wirth, Todd Vision

14:00 - 15:00

WS1 - USING INTELLIGENT GIS TOOLS SUPPORTING MSFD MONITORING: ACHIEVEMENTS OF IRIS-SES PROJECT 

Conveners: *Karageorgis A.P., Drakopoulou P., Kyriakidou Ch., Giannoudi L., Streftaris N., Pagou K. (IRIS-SES Project)* - Hall 7

14:00 - 15:00

WS2 - TRANS-DISCIPLINARY ECOSYSTEM-HEALTH RESEARCH AND INNOVATION: INTERFACING DISCIPLINES AND FIELDS OF ACTIVITY 

Convener: *Timo Assmuth* - Hall 5

14:00 - 15:00

WS3 - SYNTHESIS IN ECOLOGY AND THE ROLE OF SYNTHESIS CENTERS 

Conveners: *Jill S. Baron, Marten Winter, Alison Specht* - Hall 6

15:00 - 16:30

RT1 - URBAN RESILIENCE, SUSTAINABILITY AND HEALTH. 

Convener: *Roma Capitale* - Hall 1

16:30 - 17:00

COFFEE BREAK / POSTER SESSION 

17:00 - 18:45

CS03 - AQUATIC ECOLOGY 

Chairs: *Marco Bartoli, Antonio Pusceddu and Salvatrice Vizzini* - Hall 6

17:00 - **CS03.13** - Thermal variance sets life history traits of the Mediterranean toothcarp *Aphanius fasciatus*
Alessandro Rinaldi, Gianluca Sarà

17:15 - **CS03.14** - Use of artificial habitats within coastal lagoons: structure and ecological role of resident fish populations
Cristina Andolina, Piero Franzoi, Salvatrice Vizzini

17:30 - **CS03.15** - Estuarine sponge ground: discovery of a new habitat in the Venice lagoon
Marco Sigovini, Frine Cardone, Irene Guarneri, Giacomo Montereale Gavazzi, Davide Tagliapietra, Fantina Madricardo

17:45 - **CS03.16** - Macrobenthic invertebrate energy content within a freshwater temporary pool from northeast Italy
Marco Bertoli, Giacomo Brichese, Fabio Vignes, Alberto Basset, Elisabetta Pizzul

18:00 - **CS03.17** - Direct observation of increasing recovery length before collapse of a marine benthic ecosystem
Luca Rindi, Lei Dai, Martina Dal Bello, Jeff Gore, Lisandro Benedetti-Cecchi

18:15 - CS03.18 - Interactions among roots, macrofauna and bacteria in freshwater sediments

Marco Bartoli, Sara Benelli, Daniele Longhi, Elisa Soana, Alex Laini, G. Castaldelli, Elisa Anna Fano, Pierluigi Viaroli

18:30 - CS03.19 - Linking the watershed with the adjacent sea: the river-coastal sea continuum and the transitional zone filter

Pierluigi Viaroli, Roberta Azzoni, Marco Bartoli, Rossano Bolpagni, Gemma Burgazzi, Gianmarco Giordani, Alex Laini, Daniele Longhi, Mariachiara Naldi, Daniele Nizzoli, Monica Pinardi, Erica Racchetti, Elisa Soana

17:00 - 19:00

S12 - INTEROPERABILITY TOOLS FOR E-BIODIVERSITY



Conveners: *Alessandro Oggioni, Ilaria Rosati, Paolo Tagliolato* - Hall 3

17:00 - S12.01 - Towards semantic interoperability for plant functional diversity

Jens Kattge, Eric Garnier, Marie-Angelique Laporte, Ulrike Stahl, Ingolf Kühn, Lutz Maicher, Stefan Klotz

17:15 - S12.02 - Semantic tools for functional trait-based approaches: development and applicability

Ilaria Rosati, Angela Boggero, Nicola Fiore, Piero Franzoi, Cristiano Fugazza, Alessandro Oggioni, Alessandra Pugnetti, Leonilde Roselli, Elena Stanca, Paolo Tagliolato, Salvatrice Vizzini, Adriana Zingone, Alberto Basset

17:30 - S12.03 - The LifeWatch Italy e-infrastructure for biodiversity and ecosystem research

Nicola Fiore, Alessandro Oggioni, Ilaria Rosati, Paolo Tagliolato

17:45 - S12.04 - Leveraging biodiversity interoperability through LifeWatch semantic resources

Paolo Tagliolato, Alessandro Oggioni, Cristiano Fugazza, Stefano De Felici, Fabio Cianferoni, Ilaria Rosati, Nicola Fiore, Paola Carrara, Alberto Basset

18:00 - S12.05 - On the opportunity of exploiting Open Geospatial standards for biotic data management

Alessandro Oggioni, Paolo Tagliolato, Cristiano Fugazza, Ilaria Rosati, Laura Criscuolo, Paola Carrara

18:15 - S12.06 - Building bridges - a unifying architecture for LTER Europe based on common data services

Johannes Peterseil, Herbert Schentz, John Watkins, Nic Bertrand, Alessandro Oggioni, Tomas Kliment, Wladimir Crnojevic, Ralf Kunkel

18:30 - S12.07 - LifeWatch Greece: towards distributed e-infrastructures for supporting science-based solutions for biodiversity management

Nicolas Bailly, Carlo Allocca, Evangelia Chatzinikolaou, Sarah Faulwetter, Vasilis Gerovasileiou, Alexandros Gougousis, Kleoniki Keklikoglou, Dimitra Mavraki, Stamatina Nikolopoulou, Anastasis Oulas, Jacques Lagne, Evangelos Pafilis, Emmanouela Panteri, Christina Pavloudi, Giorgos Perantinos, Katerina Vasileiadou, Nikos Minadakis, Yiannis Marketakis, Chryssoula Bekiari, Thodoris Patkos, Constantinos Varsos, Martin Doerr, Christos Arvanitidis

17:00 - 19:00

CS06 - FOREST ECOLOGY AND DYNAMICS



Organizer: *Simona Castaldi* - Hall 5

17:00 - CS06.01 - Evaluation of the trade-off between productivity and Water Use Efficiency (WUE) of tree species for biomass crop under different management strategies in Mediterranean climate

Giovanna Battipaglia, Simona Castaldi, Fabio Lombardi, Francesco Pelleri, Primo Proietti, Francesco Ripullone, Roberto Tognetti

17:15 - CS06.02 - Structure of alluvial forest gaps using LIDAR data with respect to invasive species

Katalin Varga, Lothar Eysn, Balázs Deák, Cicimol Alexander, Hermann Heilmeyer

17:30 - CS06.03 - Effective dispersal services performed by a diverse dispersal community leads to forest recovery & expansion after land abandonment

Gema Escribano-Avila, María Calviño-Cancela, Beatriz Pías, Adrian Escudero, Emilio Virgós

17:45 - CS06.04 - Environmental cues for masting in *Picea glauca*

Edith Pounden

18:00 - CS06.05 - Conversion of pine-oak forest to oak shrubland after high-severity crown fire in the southwest USA

Andrew M. Barton

18:15 - CS06.06 - Is prescribed burning a sustainable practice for pine trees and soil microbial community in Mediterranean Basin?

Elisabetta Giuditta, Giovanna Battipaglia, Rossana Marzaioli, Sandro Strumia, Davide Ascoli, Assunta Esposito, Stefano Mazzoleni, Flora Angela Rutigliano

18:30 - CS06.07 - Effects of degradation in west African tropical forests
Gaia Vaglio Laurin, Riccardo Valentini

18:45 - CS06.08 - Investigating the interannual variability of above-ground wood growth in a temperate mature oak forest
Nicolas Delpierre

17:00 - 19:00

CS07 - EVOLUTIONARY ECOLOGY 

Chair: *Giuseppe Nascetti* - Hall 2

17:00 - CS07.01 - Seeds of morphometrics for the origins of agriculture.
Vincent Bonhomme, Emily Forster, Eleanor Stillman, Michael Wallace, Mike Charles, Glynis Jones

17:15 - CS07.02 - Plants against herbivores: trade-offs between defence strategies.
Triinu Remmel

17:30 - CS07.03 - Transcriptomic and phenotypic data from common gardens reveal adaptive genetic variation in a Mediterranean alpine plant.
Carlos Lara-Romero, Niklaus Zemp, Alfredo García-Fernández, Javier Morante-Lopez, María Luisa Rubio, Alex Widmer, Jose Maria Iriondo

17:45 - CS07.04 - Gynodioecy-gynomonoecy in *Silene* (Caryophyllaceae): frequency, gender variation and sexual dimorphism.
Ines Casimiro-Soriguer, Eduardo Narbona, Montserrat Arista, Maria Luisa Buide

18:00 - CS07.05 - Inter-regional hybrids and heritability of increased competitive ability of an invasive species.
Daniel Montesinos

18:15 - CS07.06 - Reproductive traits affect the geographic range of Amazonian anurans.
Talita Ferreira Amado, Pablo Ariel Martinez, Gabriel Corrêa Costa, Janalee Paige Caldwell, Adrian Antônio Garda

18:30 - CS07.07 - Life on the beach: variable accumulation of anthocyanins and other flavonoids in reproductive and vegetative tissues of *Silene littorea*
José Carlos del Valle, M^a Luisa Buide, Inés Casimiro-Soriguer, Justen B Whittall, Eduardo Narbona

18:45 - CS07.08 - Low photosynthetic plasticity in the seagrass *P. oceanica*. Implication for restoration and conservation strategies.
Emanuela Dattolo, Lázaro Marín-Giurao, Juan Manuel Ruiz Fernandez, Gabriele Procaccini





Wednesday, September 23rd 2015
SCIENCE-POLICY INTERFACE

08:30 - 12:30

S13 - ISLAND AT THE CROSSROADS: CONSERVATION DILEMMAS UNDER GLOBAL CHANGES



Conveners: *Paulo A. V. Borges, Simone Fattorini* - Hall 2

08:45 - S13.1 - Cross Archipelagos biodiversity studies: SADS and SARS
Paulo A. V. Borges

09:00 - S13.2 - Insects and the city: what island biogeography tells us about insect conservation in urban areas
Simone Fattorini

09:30 - S13.3 - MOVECLIM - cross archipelago evaluation of altitudinal patterns in bryophytes
Rosalina Gabriel

09:45 - S13.4 - What drives richness and diversification on islands - isolation vs. environment
Manuel Steinbauer

10:00 - S13.5 - Towards a constitutive theory of island biogeography
Michael K. Borregaard

10:15 - S13.6 - The biotic interaction structure of an island landscape, especially in relation to link multiplicity
Jens M. Olesen, Damgaard C. F., Heleno R. H., Nogales M., Vargas P., Trøjelsgaard K., Traveset A.

10:30 - 11:00

COFFEE BREAK / POSTER SESSION

11:00 - S13.7 - Community structure and complete phylogeography of butterflies from western circum-Sicilian islands reveal biogeographic processes and selective loss of diversity
Raluca Voda, Leonardo Dapporto, Vlad Dincă, Tim Shreeve, Paul Hebert, Mourad Khaldi, Ghania Barech, Khellaf Rebbas, Paul Sammut, Roger Vila

11:15 - S13.8 - A century of floristic changes in the Tuscan Archipelago: human and scale effects
Alessandro Chiarucci

11:30 - S13.9 - Do dispersal syndromes matter? Inter-island plant dispersal in the Canaries, Galapagos and Azores
Ruben Heleno

11:45 - S13.10 - Palaeoecology and islands
Sandra Nogué, Lea de Nascimento, Cindy Froyd, Janet Wilmshurst, Emily Coffey, Robert Whittaker, José Maria Fernandez Palacio, Kathy J. Willis

12:00 - S13.11 - Approximate Bayesian Computation reveals the crucial role of oceanic islands for the assembly of continental biodiversity
Jairo Patiño, Alain Vanderporten

12:15 - S13.12 - Hosts as islands?
Giovanni Strona

08:30 - 12:30

S14 - PATTERNS AND PROCESSES IN TROPICAL FOREST ECOLOGY



Conveners: *Luis Cayuela, Manuel J. Macía, Carolina Puerta-Piñero* - Hall 3

08:45 - S14.1 - Understanding Amazonian biodiversity: how far can we get with existing data?
Hanna Tuomisto

09:00 - S14.2 - On the role of history and disequilibrium dynamics in shaping tropical forest community assembly across scales
Jens - Christian Svenning

09:30 - S14.3 - Amazon forest carbon density and dynamics
Oliver L. Phillips

10:00 - S14.4 - Above-ground biomass assessment from long-term field data
Alicia Ledo, Janine B. Illian, David F.R.P. Burslem

10:15 - S14.5 - Old data, new data and complex models to quantify structure and biodiversity responses to tropical forest degradation
Marion Pfeifer, Veronique Lefebvre, Philip Platts, Robert Ewers

10:30 - 10:00

COFFEE BREAK / POSTER SESSION

11:00 - S14.6 - Natural enemies shape changes in plant diversity across a humidity gradient in central Panama

Lars Markesteijn, Owen T. Lewis

11:15 - S14.7 - Host specificity along latitudinal gradients: the case of acorn weevils in the neotropics

Guille Peguero, Raúl Bonal, Alberto Muñoz, José María Espelta

11:30 - S14.8 - Why rivers make the difference: a review on the phytogeography of river wetlands in the Amazon basin

Florian Wittmann, Ethan Householder

11:45 - S14.9 - What do we know about tropical biodiversity?

Luis Cayuela, Iñigo Granzow de la Cerda, Manuel Macía

12:00 - S14.10 - Correlates of foliar AI accumulation among populations of the AI accumulator plant *Melastoma malabathricum* L. (Melastomataceae) in response to soil chemistry and AI application

Khairil Mahmud, David F.R.P Burslem

12:15 - S14.11 - Potential seed dispersal network of the Tumbesian dry forest: the implications of fruit and body size

Gema Escribano-Avila, Carlos Ivan Espinosa, Andrea Jara-Guerrero

08:30 - 12:30

S15 - MULTI-SCALE MANAGEMENT OF PLANT INVASIONS AND OF THEIR IMPACTS ON ECOSYSTEM SERVICES FROM GLOBAL ANTICIPATION TO LOCAL GOVERNANCE



Conveners: *Joana Vicente, João P. Honrado, Christoph Kueffer* - Hall 4

08:30 - S15.1 – Biological invasions in local social-ecological systems: from pattern and process to risk management and governance

João Honrado, Joana R. Vicente, Fantina Tedim, Joaquim M. Alonso

09:00 - S15.2 – Assessment of impacts of biological invasions: an analysis across established protocols

Pablo González Moreno, Marc Kenis, Montserrat Vilà, partners of ALIEN CHALLENGE

09:15 - S15.3 - Naturalization of central European plants in North America: species traits, habitats, propagule pressure, residence time

Petr Pyšek, Ameer M. Manceur, Christina Alba, Kirsty F. McGregor, Jan Pergl, Kateřina Stajerová, Milan Chytrý, Jiří Danihelka, John Kartesz, Jitka Klimešová, Magdalena Lučanová, Lenka Moravcová, Misako Nishino, Jiří Sádlo, Jan Suda, Lubomír Tichý, Ingolf Kühn

09:30 - S15.4 - Plant invasions at high altitudes and high latitudes: what drives them and how to manage them?

Ann Milbau, Jonas Lembrechts, Aníbal Pauchard

09:45 - S15.5 - Modelling land use dynamics and landscape invasibility by alien plants under contrasting social-ecological scenarios

Joana Vicente, João A. Cabral, João P. Honrado, Carlos Guerra, Miguel B. Araújo, David Eitelberg, Niklaus E. Zimmermann, Wilfried Thuiller, Angela Lomba, Christoph Kueffer, Huirong Yu, Peter H. Verburg

10:00 - S15.6 - Could biomass valorization enhance containment of widespread plant invaders?

Luís Silva, Lurdes Borges Silva, Lara Dutra Silva, Ana Teixeira, Rui Elias, Ina Handorf, Mário Alves

10:15 - S15.7 - The use of multidisciplinary research for assessing and managing biological invasions - a review

Ana Sofia Vaz, João Martins, Antonio J. Muñoz-Pajares, Stefan Schindler, Joana R. Vicente, David Richardson, Christoph Kueffer, João P. Honrado

10:30 - 11:00

COFFEE BREAK / POSTER SESSION 

11:00 - S15.8 - Mycorrhizal status helps explaining invasion success of neophyte plant species in Germany

Andreas Menzel, Stefan Hempel, Lars Götzenberger, Stefan Klotz, Mari Moora, Matthias C. Rillig, Martin Zobel, Ingolf Kühn

11:15 - S15.9 - Assessing impacts of plant invasions in alpine habitats of the central Chilean Andes

Lohengrin Cavieres, Maritza Mihoc, Anibal Pauchard

11:30 - Brainstorming and discussion of a potential paper for Web Ecology



08:30 - 12:30

S16 - STAYING IN THE SAME PLACE OR LAGGING BEHIND? PATHS AND OBSTACLES FOR CRITICAL INNOVATION IN ECOLOGY



Convener: *Peter Søgaard Jørgensen* - Hall 5

08:30 - Introduction- Critical innovation in ecology
Peter Søgaard Jørgensen

08:45 - **S16.1** - Generating, nurturing and communicating ideas in ecology
Paul Craze

09:00 - **S16.2** - The essential role of ecology in the Anthropocene; a call for bridging disciplines
Deborah Gordon

09:15 - **S16.3** - Innovation at the science-policy interface: building alliances
Juliette Young

09:30 - **S16.4** - Challenges in global biodiversity monitoring for the next decade
Henrique Pereira

10:00 - **S16.5** - Animals as global intelligent sensing network.
Martin Wikelski

10:30 - 11:00

COFFEE BREAK / POSTER SESSION



11:00 - **S16.6** - Semantic integration towards data interoperability
Jens Kattge, Eric Garnier

11:15 - **S16.7** - Critically needed next steps for increasing quality and efficiency in peer-reviewing
Janne S. Kotiaho

11:30 - **S16.8** - Ask not what your society can do for you, but what you can do for your society
Andrew P. Beckerman

11:45 - **S16.9** - The past and future of communication among ecologists
David W. Inouye

08:30 - 12:30

CS05 - BIODIVERSITY AND ECOSYSTEMS



Chairman: *Giulia Ceccherelli, Simonetta Fraschetti, Simona Castaldi* - Hall 6

08:30 - **CS05.12** - A preliminary investigation of reconstructing a column-based data source from an RDF dataset
Carlo Allocca, Alexandros Gougousis, Christos Arvanitidis

08:45 - **CS05.13** - Effects of *Sabella spallanzanii* (Polychaeta: Sabellidae) removal on the development of fouling communities
Cataldo Pierri, Paolo Colangelo, Caterina Longo

09:00 - **CS05.14** - Diversity and structure of Mediterranean rocky reef community, from macro- to megabenthos
Stefania Pinna, Luigi Piazza, Silvia Oliva, Silvia Bianchelli, Laura Tamburello, Paola Gianguzza, Giulia Ceccherelli, Chiara Bonaviri

09:15 - **CS05.15** - Meiofaunal biodiversity in Mediterranean ecosystem alternative states
Silvia Bianchelli, Emanuela Buschi, Chiara Bonaviri, Stefania Pinna, Laura Tamburello, Antonio Pusceddu

09:30 - **CS05.16** - Triggers and thresholds of multiple shifts between benthic assemblages of Mediterranean shallow rocky reefs
Laura Tamburello, Chiara Ravaglioli, Chiara Bonaviri, Stefania Pinna, Silvia Bianchelli, Lisandro Benedetti-Cecchi, Giulia Ceccherelli, Paola Gianguzza, Antonio Pusceddu, Fabio Bulleri

09:45 - **CS05.17** - Ecosystem functioning nearby the largest steelworks in Europe and the main Italian naval base: the study case of the Mar Piccolo of Taranto
Tamara Cibic, Lucia Bongiorno, Flavio Borfecchia, Antonella Di Leo, Annalisa Franzo, Santina Giandomenico, Ana Karuza, Carla Micheli, Manja Rogelja, Lucia Spada, Paola Del Negro

10:00 - **CS05.18** - Effect of acidification on benthic prokaryotes diversity and functioning in a shallow-water CO₂ vent field (Fayal Island, NE Atlantic)
Lucia Bongiorno, Donato Giovannelli, Sergio Stefanni, Alberto Pallavicini, Kristell De Potter, João Monteiro, Hugo Parra, Marina Carreiro-Silva

10:15 - **CS05.19** - Benthic diatom abundance and diversity in urban storm-water ponds
Greta Minelgaite, Diana Agnete Stephansen, Morten Lauge Pedersen, Jes Vollertsen

10:30 - 11:00

COFFEE BREAK / POSTER SESSION 

11:00 - **CS05.20** - The white stork *Ciconia ciconia* (Linnaeus, 1758) in the wetlands of north-east of Algeria
Aicha Beya Mammeria

11:15 - **CS05.21** - LIFE to ad(d)mire; mire restorations in Sweden
Lisa Tenning

11:30 - **CS05.22** - Non-native species in Italian freshwater habitats: a macroecological assessment of invasion drivers.
Paolo Colangelo

11:45 - **CS05.23** - Build-up of virtual research environments to assessing different managerial options for Mediterranean river basins and estuaries preservation
Clara Isabel Lujan-Martinez, Cesar Alcacer-Santos, Inmaculada Cuenca-Fernandez, Antonio Jose Saez-Albanes

12:00 - **CS05.24** - Alpine headwaters as climate change observatories.
Roberta Bottarin, Ulrike Tappeiner

12:15 - **CS05.25** - Riparian zone of a temporary river: hot spot for carabid beetle biodiversity in submediterranean karst
Andreja Brigic

08:30 - 12:30

S17 - BIODIVERSITY AND ECOSYSTEM FUNCTION EXPERIMENTS WITH TREES



Convener: *Simone Mereu* - Hall 7

08:30 - **S17.1** - Biodiversity effects on functions and services of trees in the forest, the field, and the city; how can experiments help?
Alain Paquette

09:00 - **S17.2** - Exploring the functional significance of forest diversity: an update from the long-term biotree experiment
Charles Andrew Nock, Florian Härtig, Michael Scherer-Lorenzen

09:15 - **S17.3** - Response of branch architecture to neighborhood competition in a young tree diversity experiment
Thomas Van de Peer, Kris Verheyen, Bart Muys

09:30 - **S17.4** - Do birds see the forest for the trees? Scale-dependent effects of tree diversity on avian predation of artificial larvae
Evalyne W. Muiruri, Kalle Rainio, Julia Koricheva

09:45 - **S17.5** - The outcome of ecosystem manipulation by elevating atmospheric CO₂ is influenced by tree identity and mixture
Andrew R. Smith, Martin Lukac, Douglas Godbold

10:00 - **S17.6** - The role of mycorrhizae in tree diversity effects on ecosystem functioning and trophic interactions - the MyDiv research platform
Olga Ferlian, Nico Eisenhauer

10:15 - **S17.7** - Tree species identity influences the vertical distribution of the labile and recalcitrant carbon in a temperature deciduous forest soil.
Iftekhar U. Ahmed, Andrew R. Smith, David L. Jones, Douglas L. Godbold

10:30 - 11:00

COFFEE BREAK / POSTER SESSION 

11:00 - **S17.8** - Relative importance of tree species and genetic diversity for anti-herbivore defences and insect herbivory in boreal forests
Sandra Barantal, Glenn Iason, Juha-Pekka Salminen, Julia Koricheva

11:15 - **S17.9** - Biodiversity effects on soil microbial respiration in a global network of tree diversity experiments
Simone Cesarz, Nico Eisenhauer

11:30 - **S17.10** - Effects of plant genetic diversity on arthropods: a meta-analysis
Dexter J. L. Hayes, Julia Koricheva

11:45 - **S17.11** - Photosynthetic efficiency of forest trees is influenced by ecological factors, stand structure and tree diversity in European forests
Filippo Bussotti, Martina Pollastrini

12:00 - **S17.12** - Meta-analysis of tree survival in biodiversity across the global network TreeDivNet
Simon Bilodeau-Gauthier, Andy Hector, Bart Muys, Eric Allan, Harald Auge, Lander Baeten, Nadia Barsoum, Helge Bruelheide, Simone Cesarz, Gislene Ganade, Nathaly Guerrero, Josephine Haase, Richard Hobbs, Mark Huxham, Hervé Jactel, Julia Koricheva, Simone Mereu, Christian Messier, Alain Paquette, John Parker, Michael Perring, Quentin Ponette, Catherine Potvin, Claire Salisbury, Michael Scherer-Lorenzen, Andy Smith, Sean Tuck, Thomas Van de Peer, Kris Verheyen

12:15 - **S17.13** - Common gardens of the 21st Century: contribution of tree diversity experiments to sustainable reforestation
Kris Verheyen

08:30 - 18:30

CS08 - AGRICULTURAL ECOLOGY 

Chairs: Giulia Maisto, Anna De Marco - Hall 1

08:30 - CS08.1 - Reconciling productivity and biodiversity conservation in dry land arable fields in the Mediterranean region

F. Xavier Sans Serra

08:45 - CS08.2 - Farm management and landscape structure determine the frequency of arable species characteristic of dry land cereal fields

Roser Rotchés-Ribalta, José M. Blanco-Moreno, Laura Armengot, F. Xavier Sans Serra

09:00 - CS08.3 - Promoting weed regulation services in arable landscapes

Sandrine Petit, Orla McLaughlin, Sarah Labruyere, Luc Biju-Duval, Cyrille Auguste, David A. Bohan

09:15 - CS08.4 - The effect of mass flowering crops and field margin density on pollinators and pollination services in arable-dominated landscape

Marian Mendoza-García, José M. Blanco-Moreno, Lourdes Chamorro, F. Xavier Sans Serra

09:30 - CS08.5 - Landscape complexity, organic agriculture and reward crops: what is good for pollinators is good for plant pollination?

José M. Blanco-Moreno, Marian Mendoza-García, Berta Caballero-López, Laura Armengot, Lourdes Chamorro, Laura José-María, Roser Rotchés-Ribalta, Paola Baldivieso Freitas, F. Xavier Sans Serra

09:45 - CS08.6 - Impact of agricultural landscape on butterfly communities in France

Benoît Fontaine, Théophile Olivier, Elodie Tinland, Frédéric Archaux

10:00 - CS08.7 - Effects of agricultural practices on soil microbial biomass CNP content: a preliminary case-study

Fernando Amaral Santos, Manuela Abelho

10:15 - CS08.8 - Afforestation effect on the soil microarthropod communities in the former agricultural lands in Vidzeme Upland

Janis Ventins, Inita Pastare, Raimonds Kasparinskis, Olgerts Nikodemus, Dana Prizavoite

11:00 - CS08.09 - Spatial distribution of greenhouse whiteflies in tomato crops

Henry Alexander Bustos Rodriguez, Francesco Accatino, Stefan Vidal, Kerstin Wiegand

11:15 - CS08.10 - The bioprint pilot project: Ciliated protozoa communities as a tool to assess soil quality in agroecosystems and natural sites of Marche region (Italy)

Antonietta La Terza, Daizy Bharti, Santosh Kumar

11:30 - CS08.11 - A maize trophic chain indicator of agricultural management change on biological control

Agnès Ardanuy Gabarra, Marina R.J. Lee, Ramon Albajes

11:45 - CS08.12 - Crop genetic diversity benefits farmland biodiversity and ecosystem services in cultivated fields

Emmanuelle Porcher, Consortium Wheatamix

12:00 - CS08.13 - The effect of land-use change on ecosystem services in semi-natural boreal ecosystems

Line Johansen, Sølvi Wehn, Simon Taugourdeau

12:15 - CS08.14 - Assessment of carbon sequestration in olive orchards using eddy covariance techniques - with and without weed cover

Sonia Chamizo, Penélope Serrano-Ortiz, Enrique P. Sánchez-Cañete, Ana López-Ballesteros, Andrew S. Kowalski

12:30 - 17:45

BREAK 

17:45 - CS08.15 - The effect of insecticide use on the aerial food webs of olive crops

Marina Morente, Mercedes Campos, Francisca Ruano

18:00 - CS08.16 - Enhanced use of crop varietal diversity to manage pests and diseases in agricultural ecosystems

Devra Ivy Jarvis, John Wasswa Mulumba, Huaxian Peng, Yayun Yang, Mustapha Arbaoui, José Ochoa, Carmen Suarez, Pamela Paparu, Jie Wu, Loubna Belqadi, Paolo Coangelo, Rose Nankya, Anthony HD Brown, Timothy Daniel Murray, Chunming Lu, Godfrey Kagezi, Juan Pazmino, Yunyue Wang, Keyu Bai, Paola De Santis, Chunlin Long, Enlai Zhang, Carlo Fadda, Mohammed Sadiki, Maria Holzinger

10:30 - 11:00

COFFEE BREAK / POSTER SESSION 

18:15 - CS08.17 - Assessing the biodiversity value of wet grasslands: can selected plant and insect taxa be used as rapid indicators of species richness at a local scale?

Margaret Hayes

12:30 - 13:15

PL04 - THE EFFECTS OF CLIMATE CHANGE ON PHENOLOGY OF WILDFLOWERS AND ANIMALS IN THE COLORADO ROCKY MOUNTAINS



David W. Inouye - Hall 1

13:15 - 14:15

LUNCH / POSTER SESSION



14:15 - 15:45

RT02 - FRONTIERS AND FUTURE PERSPECTIVES FOR ECOLOGICAL RESEARCH



Convener: *Stefan Klotz* - Hall 1

15:45 - 16:30

PL05 - GLOBAL CHANGE AND ECOSYSTEM RESPONSE: CROSS-SCALE INTERACTIONS AND THE CHAIN OF UNCERTAINTIES



Antonello Provenzale - Hall 1

16:30 - 17:00

COFFEE BREAK / POSTER SESSION



17:00 - 17:45

PL06 - METABOLISM OF MEGACITIES



Christopher Kennedy - Hall 1

17:30 - 19:00

S18 - COMBINING EARTH OBSERVATIONS WITH EXPERIMENTAL STUDIES FOR DEVELOPING SUSTAINABLE ECOSYSTEM SERVICES AND NATURAL RESOURCES



Convener: *Andrea Taramelli* - Hall 7

17:30 - S18.1 - How to use natural ecosystems for coastal defense: understanding ecosystem creation & dynamics

Tjeerd Bouma et al.

18:00 - S18.2 - Using the satellite image archives for coastal and marine ecosystems services monitoring

Emiliana Valentini, Andrea Taramelli, Federico Filippini, Alessandra Nguyenxuan, Francesco Maria Passarelli

18:15 - S18.3 - Coastal protection: a sustainable ecosystem service?

M. Luisa Martinez, Rodolfo Silva, Octavio Pérez-Maqueo, Gabriela Mendoza, Edgar Mendoza

18:30 - S18.4 - Data assimilation of remote sensing images in a portable operational forecasting blooms system: study case algae blooms in the North Sea

El Serafy

18:45 - S18.5 - Deltaic margins vulnerability: the role of landscape patches in flood regulation and climate adaptation

Andrea Taramelli, Emiliana Valentini, Alessandra Nguyenxuan, Federico Filippini

17:45 - 19:00

CS02 - GLOBAL CHANGE ECOLOGY



Chair: *Cristina Maguas* - Hall 5

17:45 - CS02.13 - Climate change increases herbivory in ectothermic omnivores

Bruno Martins Carreira, Nuno Gonçalves, Vanessa Pinto, Germán Orizaola, Pedro Segurado, Anssi Laurila, Rui Rebelo

18:00 - CS02.14 - Predicting the likely impacts of future afforestation on birds of conservation concern

Ilse Corkery

18:15 - CS02.15 - Preindustrial, present and future [CO₂] effects on wheat are modulate by water availability

Salvador Aljazairi, Salvador Nogues

18:30 - CS02.16 - A meta-analysis and an experimental test of variations in the impact of non-native seaweeds along gradients of habitat degradation

Fabio Bulleri, Elena Maggi, Lisandro Benedetti-Cecchi, Chiara Ravaglioli, Luca Rindi, Alexander James Rattray, Laura Tamburello

18:45 - CS02.17 - Regime shifts and the maintenance of alternative states on rocky reefs in the new Mediterranean

Lisandro Benedetti-Cecchi, Fabio Bulleri, Elena Maggi, Martina Dal Bello, Chiara Ravaglioli, Andrea Cucco

17:45 - 19:00

**CS09 - ECOLOGICAL MODELLING & BODY SIZES
ALLOMETRIES AND PATTERNS**



Chair: *John Halley* - Hall 3

17:45 - CS9.1 - The speed of biodiversity decay in fragmented landscapes
John M. Halley, Nikolaos Monokrousos, Antonios D. Mazaris, Despoina Vokou

18:00 - CS9.2 - Stochastic differential equations and outbreaks modeling
Markos Avlonitis, Alberto Basset

18:15 - CS9.3 - Non-linear power law approach for spatial and temporal pattern analysis of salt marsh evolution
Fabio Bozzeda, Emiliana Valentini, Loreta Cornacchia, Andrea Taramelli

18:30 - CS9.4 - Assessing the predictive ability of mechanistic models for the Haitian cholera epidemic
Lorenzo Mari, Renato Casagrandi, Enrico Bertuzzo, Flavio Finger, Andrea Rinaldo, Marino Gatto

18:45 - CS9.5 - Body size - abundance scaling relationships in benthic community: a deeper insight
Francesco Cozzoli

17:45 - 19:00

**CS10 - POPULATION AND COMMUNITY ECOLOGY,
FOOD WEBS NETWORKS AND COMPLEXITY**



Chairs: *Frank Berendse, Renato Casagrandi, Lisandro Benedetti-Cecchi* - Hall 4

17:45 - CS10.1 - Spatial self-organization stabilizes dynamics of plant communities
Frank Berendse, Maarten Geuskens

18:00 - CS10.2 - Understanding community assembly mechanisms and functioning through integrative approaches
Canan Karakoç, Yue Lin, Antonis Chatzinotas

18:15 - CS10.3 - Functional vs. phylogenetic perspectives of the assembly process in gypsum communities along an aridity gradient
Arantzazu L. Luzuriaga, Pablo Ferrandis, Esmeralda Martínez-Duro, Joel D. Flores, Adrián Escudero

18:30 - CS10.4 - Vegetation spatial patterns identify alternative multifunctionality states in global drylands
Miguel Berdugo, Sonia Kéfi, Santiago Soliveres, Fernando Tomás Maestre

18:45 - CS10.5 - Allelopathic effect of *A. herba-alba* on soil seed bank in a semiarid plant community, NE Spain
Antonio Ignacio Arroyo, Yolanda Pueyo, Ramon Reine, Ana Foronda, Maria Luz Giner, Concepcion Alados





Thursday, September 24th 2015

BIODIVERSITY AND ECOSYSTEMS

08:30 - 12:30

S19 - VITO VOLTERRA SYMPOSIUM ON MATHEMATICAL MODELS IN ECOLOGY



Convener: **Marino Gatto** - Hall 1

08:30 - Opening remarks
Marino Gatto

09:00 - S19.1 - Models for resource competition: a brief personal review
Andrea Pugliese, Mimmo Iannelli

09:30 - S19.2 - Key players in ecological interaction networks: from graph theory to conservation
Ferenc Jordán

09:45 - S19.3 - The role of heterogeneity on the invasion probability of mosquito-borne diseases in multi-host models
Luca Bolzoni, Andrea Pugliese, Roberto Rosà

10:00 - S19.4 - Floquet theory for seasonally forced models of waterborne pathogen transmission
Lorenzo Mari, Renato Casagrandi, Manuela Ciddio, Marino Gatto

10:15 - S19.5 - Modelling the effects of tick-host interaction on pathogen dynamics: TBE as a case study
Roberto Rosà, Lorenzo Bolzoni, Francesca Cagnacci, Hauke Heidi Cristine, Valentina Tagliapietra, Luca Ferreri, Mario Giacobini, Maria Kazimirova, Anna Paola Rizzoli

10:30 - 11:00

COFFEE BREAK / POSTER SESSION

11:00 - S19.6 - Rainfall intermittency and savanna dynamics
Antonello Provenzale, Donatella D'Onofrio, Mara Baudena, Max Rietkerk, Fabio D'Andrea

11:15 - S19.7 - On the Lotka-Volterra population games
Vlastimil Krivan



08:30 - 12:30

S20 - LONG TERM ECOLOGICAL RESEARCH (LTER) - THE EUROPEAN PERSPECTIVE



Convener: **Stefan Klotz** - Hall 2

08:30 - Opening remarks
Stefan Klotz

08:45 - S20.1 - eLTER- European backbone infrastructure for integrated long-term ecosystem, critical zone and socio-ecological system research
Michael Mirtl, Ingolf Kühn

09:15 - S20.2 - Aims and challenges of the scientific analyses of long-term ecological research
Ingolf Kühn, Michael Mirtl

09:45 - S20.3 - Long-term ecological research on soil carbon sequestration: evidence from three European grassland experiments
Dario Fornara

10:15 - S20.4 - Long-term bee and bird communities observation in agricultural landscapes: what are the drivers of temporal changes?
Mark Frenzel, Jeroen Everaars, Oliver Schweiger

10:30 - 11:00

COFFEE BREAK / POSTER SESSION

11:00 - S20.5 - Changes in retention of sulphur and nitrogen compounds at 18 European LTER/ICP IM sites in 1990-2012
Martin Forsius, Jussi Vuorenmaa

11:30 - S20.6 - Insights from long-term monitoring data in freshwater species distribution models: predictions for stream macroinvertebrates in the German LTER-site Rhine-Main-Observatory
Mathias Kuemmerlen, Stefan Stoll, Andrea Sundermann, Peter Haase

12:00 - S20.7 - Riding through ecosystems and biodiversity: long-term Italian ecosystem research for the citizens

Alessandra Pugnetti, Caterina Bergami, Alessandro Campanaro, Paola Carrara, Laura Criscuolo, Domenico D'Alelio, Michele Freppaz, Andrea Lami, Margherita Maggioni, Giorgio Matteucci, Maria Grazia Mazzocchi, Alessandro Oggioni, Bruno Petriccione, Mariangela Ravaoli, Michela Rogora, Alberto Basset

12:15 - S20.8 - LTSER platform Poloniny (Slovakia) undergoing significant changes

Halada Ľuboš, Bezák Peter, Gajdoš Peter, David Stanislav, Majzlan Oto, Žila Pavel, Bača Andrej

08:30 - 12:30

S21 - THE CHALLENGE OF MANAGING MULTIPLE STRESSORS IN MARINE REGIONS: SUCCESS STORIES, OPPORTUNITIES FOR ACTION AND GAPS OF KNOWLEDGE



Conveners: Fiorenza Micheli, Simonetta Frascchetti, Laura Airoidi, Elena Gissi - Hall 3

08:30 - S21.1 - Cumulative human impacts in marine ecosystems: setting priorities for regional conservation planning

Fiorenza Micheli

08:45 - S21.2 - Gaps of knowledge and limitations in marine/maritime spatial planning: a lesson from the Mediterranean Sea

Simonetta Frascchetti, Giulio Farella, Francesco De Leo

09:00 - S21.3 - Multiple stressors and thresholds in real world marine ecosystems

Simon Trush

09:15 - S21.4 - Besides mitigation and adaptation: managing for synergistic interactions between local and global stressors as resilience approach to climate change policies

Laura Airoidi, E. M Strain, Vito Frontuto, Silvana Dalmazzone

09:30 - S21.5 - How to apply an ecosystem-based approach using ecosystem services mapping to Maritime Spatial Planning. Learning from ADRIPLAN

Elena Gissi, Federica Appiotti, Denis Maragno, Irene Bianchi, Francesco Musco, Alessandro Sarretta, Stefano Menegon, Andrea Vianello, Pierpaolo Campostrini

10:30

09:45 - S21.6 - MSP as a tool to minimize conflicts between human activities and ecosystem components: examples from Greek waters

Vassiliki Vassilopoulou

10:00 - S21.7 - Public perceptions of beach nourishment and conflict management strategies: a case study of Portonovo Bay in the Adriatic Italian Coast

Gabriele Prati, Cinzia Albanesi, Luca Pietrantoni

10:15 - S21.8 - A bio-economic model of the value of the ecosystem services provided by *Posidonia* meadows

Stefano Focardi, Massimo Materassi, Letizia Di Bartolo, Fabio Bulleri, Chiara Ravaglioli, Laura Tamburello, Silvana Dalmazzone, Vito Frontuto

COFFEE BREAK / POSTER SESSION 

11:00 - S21.9 - Compounded effects of ocean acidification and nutrient enrichment on the seagrass *Posidonia oceanica* and the associated epiphytic community

Chiara Ravaglioli, Gabriele Procaccini, Laura Tamburello, Maria Cristina Buia, Giuseppina Pardi, Debora Fontanini, Alessandro Capocchi, Fabio Bulleri

11:15 - S21.10 - Lack of recruitment, sand burial and spread of introduced plants regulate the recovery of natural and anthropic bare patches in coastal dunes

Giulia Ceccherelli, V. Cussedu, Stefania Pisanu, Stefania Pinna, Mark D. Bertness

11:30 - S21.11 - Applying molecular tools to decision making for marine ecosystem conservation. The case of the seagrass meadows

Gabriele Procaccini, Marlene Jahnke, Chiara Lauritano

08:30 - 12:30

S22 - SOIL QUALITY AND HEALTH



Convener: Simona Castaldi - Hall 4

08:30 - S22.1 - Plant-microbial interactions in a Mediterranean ecosystem lead to short-circuited soil N cycle

Simona Castaldi, Ana Rey, Rossana Marzaioli, Massimo Pindo, Flora Angela Rutigliano, Francesco Miglietta

09:00 - S22.2 - Diversity of arbuscular mycorrhizal fungi in human-impacted and natural habitats

Maarja Öpik, Martin Zobel, Mari Moora

09:30 - S22.3 - At the root of plant health and nutrition: the role of arbuscular mycorrhizas
Paola Bonfante, Marco Giovannetti, Matteo Chialva, M. Novero, A. Salvioli, X. Xienan, V. Volpe

10:00 - S22.4 - Inhibitory effects of extracellular self-DNA: a new mechanism for negative plant-soil feedbacks and soil sickness
Giuliano Bonanomi, Guido Incerti, Maria Luisa Chiusano, Pasquale Termolino, Mauro Senatore, Francesco Giannino, Fabrizio Carteni, Max Rietkerk, Virginia Lanzotti, Stefano Mazzoleni

10:30 - 11:30

COFFEE BREAK / POSTER SESSION 

11:00 - S22.5 - Modeling soil functions and indicators of soil health with biogeochemical models – current approaches and knowledge gaps
Klaus Butterbach-Bahl, David Kraus, Ralf Kiese, Edwin Haas

11:30 - S22.6 - Soil fauna: key to soil organic matter dynamics and modelling
Juan José Jiménez, Juliane Filser

08:30 - 12:30

S23 - NEW EMERGING DRIVERS OF CARBON AND NUTRIENT CYCLES UNDER A DRIER AND WARMER CLIMATE 

Conveners: Jose Gruenzweig, Ana Rey - Hall 5

08:30 - Opening remarks
Jose Gruenzweig, Ana Rey

08:45 - S23.1 - Biotic attributes as drivers of nutrient cycling in drylands under global change
Fernando T. Maestre

09:15 - S23.2 - Soil carbon cycling in a drier world: lessons from abiotic processes in drylands
Heather L. Throop

09:45 - S23.3 - Ecosystem carbon and nitrogen dynamics in response to climate extremes
Michael Bahn

10:15 - S23.4 - Microbial decomposition of plant litter under dry conditions
Yael Navon, Daniel Glikzman, José M. Grünzweig

10:30 - 11:00

COFFEE BREAK / POSTER SESSION 

11:00 - S23.5 - Processes driving the ecosystem carbon balance in North American deserts under climate change
Jay Arnone, Jasoni R.L., Fenstermaker L.F., Wohlfahrt G.

11:30 - S23.6 - Tradeoffs between ecosystem carbon sequestration and surface radiation budget under dry conditions
Dan Yakir, Eyal Rotenberg, Efrat Ramati, Shani Rohatyn, Feyodor Tatarinov

12:00 - S23.7 - Warming-induced stimulation of carbon uptake in a Mediterranean garrigue: a possible involvement of nitrogen cycle
Gabriele Guidolotti, Dario Liberati, Giovanbattista de Dato, Paolo De Angelis

08:30 - 12:30

S24 - HIGH NATURE VALUE FARMLAND: TOWARDS MORE EFFECTIVE CONSERVATION AND MONITORING OF BIODIVERSITY ACROSS EUROPEAN LANDSCAPES 

Conveners: Angela Lomba, João Honrado, Sebastian Klimek, Davy McCracken - Hall 6

08:30 - S24.1 - Identifying and supporting High Nature Value farming systems: an overview
Davy McCracken

09:00 - S24.2 - Looking back and the way forward: assessing the vulnerability and resilience of High Nature Value farmlands in time
Angela Lomba, Martin Zobel, Mari Moora

09:30 - S24.3 - High Nature Value farming: from indication to conservation
Sebastian Klimek, Doreen Gabriel, Jens Dauber, Sabrina Jerrentrup, Stefan Mecke, Michael Strohbach

10:00 - S24.4 - Supporting HNV farmland conservation: lessons learnt and future needs for science into policy and practice
James Moran, Pamela Boyle, John Finn, Mike Gormally, Stuart Green, Margaret Hayes, Gwyn Jones, Patrick McGurn Daire O hUallachàin, Caroline Sullivan

10:30

COFFEE BREAK / POSTER SESSION 

11:00 - S24.5 - Development of a nature value index for pastoral farmland – a rapid farm-level assessment

Pamela Boyle, Margaret Hayes, Michael Gormally, Caroline Sullivan, James Moran

11:15 - S24.6 - National distribution and typologies of High Nature Value (HNV) farmland in Ireland and how this can aid targeting

Caroline Sullivan, John Finn, Shafique Matin, Stuart Green and James Moran

11:30 - S24.7 - The map and the territory - findings from the characterization of HNV farming in France

Xavier Poux

11:45 - S24.8 - Challenges in monitoring the High Nature Value of Mediterranean extensive silvo-pastoral farm systems

Carlos Guerra, Teresa Pinto-Correia, Carla Azeda, Mara Almeida, Sergio Godinho, Nuno Guiomar

12:00 - Round table and discussions:

European Forum on Nature Conservation and Pastoralism (EFNCP). High Nature Value farmlands: towards more effective conservation and monitoring of biodiversity across European landscapes

08:30 - 12:30

S25 - ECOLOGISTS' STRATEGIES AT SCIENCE-POLICY INTERFACES: HOW CAN SOCIAL SCIENCES HELP?



Conveners: Audrey Coreau, Laurent Mermet, Aleksandar Rankovic, Sebastian Treyer - Hall 7

08:30 - Opening remarks

Aleksandar Rankovic

08:45 - S25.1 - Ecology and environmental conservation: a long history of interaction

Stephen Bocking

09:15 - S25.2 - Different in terms of disciplines or differing about conservation goals? The variable meaning of collaboration between ecologists and social scientists

Laurent Mermet

09:45 - S25.3 - Interfacing conservation science and biodiversity politics: what impact the IPBES, what impact the individual researcher?

Alice B.M. Vadrot

10:00 - S25.4 - Economists and ecologists as contributors in multi-dimensional decision-making processes

Yann Laurans

10:15 - S25.5 - Embedding ecology into policy contexts

Juliette Young, Kerry Waylen

10:30 - 11:00

COFFEE BREAK / POSTER SESSION

11:00 - S25.6 - When good intentions fail: a systematic analysis of conservation outcomes and suggestions for improvement

Zoe Nyssa

11:15 - S25.7 - Strategic intervention for enhancing conservation NGOs actions - the case of an ecological research foundation, la Tour du Valat, France

Fanny Guillet

11:30 - S25.8 - Is strategic reflexivity useful for researchers in ecology? The example of a partnership with a conservation NGO

Audrey Coreau

12:30 - 13:15

PL07 - VOLTERRA'S LEGACY: VARIATIONS AND FLUCTUATIONS IN THE NUMBERS OF COEXISTING SPECIES

Jef Huisman - Hall 1

13:15 - 14:15

LUNCH / POSTER SESSION

13:45 - 16:00

WS04 - ILTER NITROGEN INITIATIVE

Organizer: ILTER group - Hall 5

13:45 - 16:00

WS05 - ILTER CARBON INITIATIVE

Organizer: ILTER group - Hall 6

13:45 - 16:00

WS06 - THE EMERGENCE OF WICKED PROBLEMS IN COUPLED HUMAN AND NATURAL SYSTEMS: CONTRIBUTIONS OF THE ILTER TO A PARTNERSHIP

Organizer: ILTER group - Hall 7

14:15 - 15:00

PL08 - PATTERNS OF PLANT INVASIONS IN AND FROM CENTRAL EUROPE

Ingolf Kühn - Hall 1

15:00 - 16:30

RT03 - ENHANCING SYNERGIES AMONG RESEARCH INFRASTRUCTURES AND JOINT PROGRAMMING INITIATIVES ON KEY ENVIRONMENTAL PRIORITIES



Convener: **Maria Uccellatore** - Hall 1

16:30 - 17:00

COFFEE BREAK / POSTER SESSION



16:30 - 19:30

S26 - LONG-TERM ECOLOGICAL RESEARCH: ENVIRONMENTAL SIGNALS AND LARGE SCALE INSIGHTS FROM A GLOBAL NETWORK – ILTER



Conveners: **Giorgio Matteucci, Manuel Maass, Hideaki Shibata, Michael Mirtl** - Hall 2

16:30 - Introduction
Hideaki Shibata

16:45 - S26.1 - Effects of changing land use and climate on grassland biogeochemistry in the Austrian Alps
Michael Bahn

17:15 - S26.2 - UNESCO International Hydrological Programme – Ecohydrology, engineering harmony for a sustainable world
Giuseppe Arduino

17:45 - S26.3 - Nitrogen cycle - LTER challenges and INI perspectives
Mark Sutton

18:15 - Discussion

18:30 - S26.4 - LTER Italy: a really trans-domain, trans-disciplinary LTER network
Giorgio Matteucci, Maria Grazia Mazzocchi, Alessandro Campanaro, Lucilla Capotondi, Bruno Cataletto, Andrea Lami, Renzo Motta, Caterina Bergami, Alessandra Pugnetti, Mariangela Ravaoli

18:45 - S26.5 - Long-term ecological research at the Gran Paradiso National Park (GPNP), Italy
Antonello Provenzale, Bruno Bassano, Achaz von Hardenberg, Ramona Viterbi, Rocco Tiberti, Cristiana Cerrato

17:00 - 17:45

CS11 - MACROECOLOGY & SCALING



Chair: **Edoardo Calizza** - Hall 4

17:00 - CS11.1 - Linking and predicting biodiversity patterns from fine to large spatial scales

Sandro Azaele, Amos Maritan, Stephen J Cornell, Samir Suweis, Jayanth R Banavar, Doreen Gabriel, William E Kunin

17:15 - CS11.2 - Mapping forested areas with most unique features. Are they hosting most endemic forest bird species?

Roxanne Leberger

17:30 - CS11.3 - Do biocrusts need to be considered in drylands monitoring (by means of remote sensing techniques)?

Emilio Rodríguez-Caballero, Tanja Knerr, Bettina Weber

17:00 - 18:15

CS09 - ECOLOGICAL MODELLING & BODY SIZES ALLOMETRIES AND PATTERNS



Chair: **John Halley** - Hall 5

17:00 - CS09.6 - The interacting effects of parameter uncertainty and demographic stochasticity on the establishment success of introduced species, and our ability to predict them

Gian Marco Palamara, Francesco Carrara, Owen Petchey, Matthew Smith

17:15 - CS09.7 - Can I trust my models? Sentic: an R package for model diagnostics in comparative biology

Caterina Penone, Gustavo Brant Paterno, Gijsbert Werner, Pablo Ariel Martinez

17:30 - CS09.8 - Optimal flow for brown trout: habitat - prey optimization

Riccardo Fornaroli, Riccardo Cabrini, Laura Sartori, Francesca Marazzi, Valeria Mezzanotte, Sergio Canobbio

17:45 - CS09.9 - Species distribution modelling applied to the open ocean: global trends and uncertainties in phytoplankton richness patterns

Damiano Righetti, Niklaus E. Zimmermann, Achilleas Psomas, Meike Vogt, Nicolas Gruber

18:00 - CS09.10 - Modeling of *Ostreopsis cf. ovata* bloom events from meteo-marine data

Valentina Asnagli, Ennio Ottaviani, Andrea Pedroncini, Rosa Maria Bertolotto, Mariachiara Chiantore

17:00 - 19:00

**CS10 - POPULATION AND COMMUNITY ECOLOGY,
FOOD WEBS NETWORKS AND COMPLEXITY**



Chairs: Frank Berendse, Renato Casagrandi, Lisandro Benedetti-Cecchi
- Hall 1

17:00 - CS10.6 - Trophic changes and food web dynamics in Lake Maggiore (Italy)

Lorenzo Righetto, Paco Melia, Marino Gatto, Renato Casagrandi

17:15 - CS11.7 - Parasite introduction by translocation of infected fish: the case of *Acanthocephalus rhinensis*

Luisa Giari, Bahram Sayyaf Dezfuli, Massimo Lorenzoni, Giuseppe Castaldelli, Elisa Anna Fano

17:30 - CS11.8 - Deep dwelling population of Mediterranean red coral: back to the future

Alessandro Cau, Lorenzo Bramanti, Marzia Bo, Rita Cannas, Simonepietro Canese, Michela Angiolillo, Danila Cuccu, Maria Cristina Follesa, Katell Guizien

17:45 - CS11.9 - Interspecific density-dependent habitat selection and the role of secondary habitats in steppe birds

Rocio Tarjuelo, Juan Traba, Manuel Borja Morales, Douglas W. Morris

18:00 - CS11.10 - Influence of soil microbial communities on plant competition

Francisco I. Pugnaire, Sara Hortal, Cristina Armas, Yudi M. Lozano, Felipe Bastida, José L. Moreno, Carlos G. Izquierdo

18:15 - CS11.11 - On the season-diversity relationship

Jarad Mellard, Michel Loreau

18:30 - CS11.12 - The role of local biotic adaptation in structuring plant communities

Marina Semchenko, Siim Nettan, Anette Sepp, Maria Abakumova, Rein Kalamees, Anu Lepik, Kersti Püssa, Sirgi Saar, Marge Thetloff, Qiaoying Zhang, Kristjan Zobel

18:45 - CS11.13 - Assessment of ecological thresholds between and within macroinvertebrate metacommunities of lotic systems

Vasileios Aschonitis, Giuseppe Castaldelli, Elisa Anna Fano

17:00 - 19:00

CS12 - BIOGEOGRAPHY AND LANDSCAPE ECOLOGY



Chair: Giulia Maisto - Hall 3

17:00 - CS12.1 - The effects of landscape diversity and landscape character changes on landscape functions

Hakan Doygun, Sule Kisakurek, Osman Uzun, Nurdan Erdogan, Alican Kop, Sercan Gulci

17:15 - CS12.2 - Climatic stability, evolutionary history and global patterns in mammal functional diversity

Marco Girardello, Jens-Christian Svenning

17:30 - CS12.3 - Spatial structuration of anthropogenic drivers of environmental change in coastal areas

Pascal Marty, Daeden Jonathan

17:45 - CS12.4 - Analyzing spatial distribution of plant species in a Mediterranean island: a geostatistical approach

Georgios K. Vasios, Phaedon C. Kyriakidis, Panayiotis G. Dimitrakopoulos

18:00 - CS12.5 - Landscape metrics as indicators of coastal morphology and its use in ecological niche modelling of seagrass species

Rosa M. Chefaoui, Jorge Assis, Carlos M. Duarte, Ester A. Serrão

18:15 - CS12.6 - Mountain biogeography: does the temporal evolution in "sky island" area matter?

Silvio Marta, Federica Lacasella, Donatella Cesaroni, Valerio Sbordoni

18:30 - CS12.7 - The importance of private greenspaces for ecological connectivity in Paris: the example of *Pipistrellus pipistrellus*

Anne Mimet, Christian Kerbiriou, Richard Raymond, Laurent Simon

18:45 - CS12.8 - Diachronical analysis of river mesohabitat and riparian vegetation evolution: (Panaro river case study)

Bruna Gumiero, Daniele Lenzi, Stefano Fabbri, Barbara Belletti, Giovanna Puppi

17:00 - 19:00

S27 - SUSTANABILITY EDUCATION FOR A NEW CITIZENSHIP



Conveners: **Giuseppe Barbiero, Caterina Lorenzi** - Hall 6

17:00 - Opening remarks
Caterina Lorenzi, Giuseppe Barbiero

17:15 - S27.1 - Ecological aspects in food education
Annastella Gambini, Marta Bettinelli

17:30 - S27.2 - School children monitor the environment and develop care and understanding of nature within the framework of the LTER-EDU Program
Yael Navon

17:45 - S27.3 - Teaching pre-school children about sustainability through movies
Maria Varsama

18:00 - S27.4 - Discovering ecology through Research Game
Franca Sangiorgio, Caterina Lorenzi, Nicola Fiore, Sara Montinaro, Alberto Basset

18:15 - S27.5 - When citizens do science: an overview of public participation in scientific research in Italy
Flavia Bartoccioni, Gianfranco Gliozzo, Caterina Lorenzi, Andrea Sforzi, Muki Haklay

17:45 - S27.6 - Affective ecology for sustainability
Giuseppe Barbiero

17:45 - 19:00

CS13 - BIOGEOCHEMISTRY IN TERRESTRIAL & AQUATIC ECOSYSTEM



Chair: **Giuseppe Castaldelli** - Hall 4

17:45 - CS13.1 - Soil CO₂ emissions change after climate change experiment in the Arctic
Philipp R. Semenchuk, Casper T. Christiansen, Paul Grogan, Bo Elberling, Elisabeth J. Cooper

18:00 - CS13.2 - Analyzing pulse-dynamic of CO₂ fluxes on biocrusts
Yolanda Canton Castilla, Sonia Chamizo, Isabel Miralles, Enrique Sanchez-Cañete, Emilio Rodriguez-Caballero, Francisco Domingo

18:15 - CS13.3 - Nitrogen sources, export and internal buffer in watersheds with multiple anthropogenic pressures: comparison among tributaries of the Po river system (northern Italy)

Elisa Soana, Giuseppe Castaldelli, Monica Pinardi, Daniele Nizzoli, Erica Raccetti, Alex Laini, Elisa Anna Fano, Pierluigi Viaroli, Marco Bartoli

18:30 - CS13.4 - Effects of nitrogen fertilization on microbial enzyme activity and the carbon sequestration ability of grassland soils

Valeria L. Cenini, Dario Arturo Fornara, Geoffrey McMullan, Nigel Ternan, Kate Lajtha, Mick Crawley

18:45 - CS13.5 - The $\delta^{15}\text{N}$ signature of pollinating insects along an urbanization gradient in the Ile-de-France region

Benoît Geslin, Aleksandar Rankovic, Anne Barbillon, Véronique Vaury, Abbadie Luc, Isabelle Dajoz

18:15 - 19:00

CS14 - ECOLOGY & SOCIETY



Chair: **Marco Alberto Bologna** - Hall 5

18:15 - CS14.1 - Ecology & society: applying evolutionary biology to address global challenges

Peter Sogaard Jørgensen

18:30 - CS14.2 - Bringing together scientists and reintegrated gardeners: the use of citizen science to enhance conservation education

Anne Dozieres, Julie Scapino, Benoit Fontaine, Romain Julliard

18:45 - CS14.3 - Monitoring the insects and public involvement: the challenge of the life project "MIPP"

Emanuela Maurizi, Alessandro Campanaro, Alessandro Cini, Michela Maura, Lara Redolfi de Zan, Livia Zapponi, Gloria Antonini, Marco Bardiani, Stefano Chiari, Sonke Handersen, Emiliano Mancini, Fabio Mosconi, Paolo Audisio, Marco Alberto Bologna, Alessandro Bottacci, Giuseppe Maria Carpaneto, Panella Marco, Pio Federico Roversi, Giuseppino Sabbatini, Franco Mason



Friday, September 25th 2015

NUTRITION AND RESOURCES

08:30 - 09:15

PL09 - VULNERABILITY AND RESILIENCE OF COASTAL ECOSYSTEMS AND FISHERIES TO CLIMATE CHANGE

Fiorenza Micheli - Hall 1

09:15 - 10:15

CS15 - PHYSIOLOGICAL ECOLOGY

Chair: *Daniela Baldantoni* - Hall 1

09:15 - CS15.1 – Role of dew in desert plants

Amber J. Hill, Todd Dawson, Oren Shelef, Shimon Rachmilevitch

09:30 - CS15.2 - Seasonal dynamics of carbon storage in southern South American trees

Frida Piper

09:45 - CS15.3 - Imprint of short term memory from circadian oscillators on leaf to ecosystem flux dynamics

Victor Resco de Dios, Arthur Gessler, J Pedro Ferrio, Josu Alday, Michael Bahn, Jorge del Castillo, Sebastien Devidal, Sonia Garcia-Miñoz, Zachary Kayler, Damien Landais, Paula Martín, Alex Milcu, Clement Piel, Karin Pirhofer-Walzl, Olivier Ravel, Serajis Salekin, David Tissue, Mark Tjoelker, Jordi Voltas, Jacques Roy

10:00 - CS15.4 - The ecophysiology of photosynthesis in mixotrophic plants

Alessandro Bellino, Anna Alfani, Daniela Baldantoni

09:15 - 12:15

CS16 - CONSERVATION ECOLOGY

Chairs: *Tommaso Russo and Szabolc Lengyel* - Hall 2

09:15 - CS16.1 - The different meanings of land use and land use intensity for mammalian conservation across the world

Ester Polaina, Manuela González-Suárez, Tobias Kuemmerle, Eloy Revilla

09:30 - CS16.2 - Human disturbances and plant responses across elevational gradients of selected Philippine mountain forests: a proposal for biodiversity education using open and distance e-learning

Inocencio Escoton Buot, Jr

09:45 - CS16.3 - The industrialization of a frog: determining the factors influencing an endangered amphibian's distribution towards industrialized landscapes

Jose Valdez

10:00 - CS16.4 - Relative importance of human disturbance and natural environment for rabbit abundance on motorway verges

Aimara Planillo, Juan E. Malo

10:15 - CS16.5 - Rewilding the landscape: effects of large-scale restoration and management of grassland and marsh ecosystems on animals

Szabolcs Lengyel, Oliver Thomas MÉRŐ, Béla Mester, Márton István Szabolcs, Csaba Szepesváry

10:30 - 11:00

COFFEE BREAK / POSTER SESSION

11:00 - CS16.6 - The physical features of the *Sabellaria spinulosa* reef in the northern Gargano Promontory (Adriatic Sea, southern Italy)

Stefania Nunzia Lisco, Massimo Moretti, Vincenzo Moretti, Frine Cardone, Carlotta Nonnis Marzano, Giuseppe Corriero

11:15 - CS16.7 - Habitat suitability model for the loggerhead turtle, *Caretta caretta* (L., 1758) along the Apulian coastline

Manuel Marra, Giovanni Scillitani, Cataldo Pierri, Giuseppe Corriero

11:30 - CS16.8 - Tracking and analysing fishing effort in space and time: state-of-the-art sources and methods to investigate and control fisheries impacts towards sustainable management

Tommaso Russo, Antonio Parisi, Lorenzo D'Andrea, Stefano Cataudella

11:45 - CS16.9 - Ecological consequences of spatial and temporal variation of frequency and intensity of disturbance

Erika Maria Diletta Porporato, M. Cristina Mangano, Gianluca Sarà

12:00 - CS16.10 - How small is an ecosystem process?

Meredith Root-Bernstein

09:15 - 12:30

CS17 - ECOSYSTEM SERVICES & SOCIAL BENEFITS

Chair: **Fausto Manes** - Hall 3

09:15 - CS17.1 - Deductive and inductive approaches to identifying, mapping and valuating of ecosystem services in rural landscape
Pavol Elias

09:30 - CS17.2 - Policy impacts on regulating ecosystem services: looking at the implications of 60 years of landscape change on soil erosion prevention in a Mediterranean silvo-pastoral system
Carlos António Guerra, Teresa Pinto-Correia

09:45 - CS17.3 - The future of some ecosystem services in central European farmlands
András Báldi, Anikó Kovács-Hostyánszki, Krisztina Bereczki, Gergely Boros, László Somay

10:00 - CS17.4 - Air quality improvement by urban and periurban vegetation in the metropolitan area of Rome. An ecosystem service perspective
Fausto Manes, Andrea Ricci, Federica Marando, Elisabetta Salvatori, Michele Munafò, Lina Fusaro, Carlo Blasi, Luisella Ciancarella

10:15 - CS17.5 - Environmental perception and livelihood knowledge in a payment for environmental services project in the Brazilian Atlantic forest.
Simone Aparecida Vieira

10:30 - 11:00

COFFEE BREAK / POSTER SESSION

11:00 - CS17.6 - A working tool to support natural capital estimation and decision making in marine coastal areas
Marco Marcelli, Filippo M. Carli, Simone Bonamano, Francesco Manfredi Fratarelli, Emanuele Mancini, Francesco Paladini de Mendoza, Viviana Piermattei

11:15 - CS17.7 - Interplay between ecological and socio-economic systems: a systems perspective integrating environmental accounting and ecosystem services assessment
Giovanni Fulvio Russo, Pierpaolo Franzese, Elvira Buonocore

11:30 - CS17.8 - Natural immunity: green space, your microbes, and your health are related
Lasse Ruokolainen

11:45 - CS17.9 - Do tree crops enhance soil C sequestration and C allocation to more stable SOM forms compared with non-tree crops?
Elisa Niro, Rosaria D'Ascoli, Fabio Marzaioli, Alberto Agnelli, Primo Proietti, Luisa Massaccesi, Luigi Nasini, Luca Regni, Antonietta Fioretto, Simona Castaldi

12:00 - CS17.10 - Enlarging the ecosystem services framework
Richard Gunton, Eline van Asperen, Andrew Basden, David Bookless, George Otieno, Yoseph Araya, David Hanson, Martin Kaonga, Mark Goddard, Arthur Jones, Deepa Senapathi, David Raffaelli, Gareth Jones, Andrew Gosler

12:15 - CS17.11 - Development of intelligent GIS tools in support to MSFD: achievements of IRIS-SES Project
Aristomenis Karageorgis, Paraskevi Drakopoulou, Chara Kyriakidou, Louisa Giannoudi, Nikos Streftaris, Kalliopi Pagou

09:15 - 13:00

CS10 - POPULATION AND COMMUNITY ECOLOGY, FOOD WEBS NETWORKS AND COMPLEXITY

Chairman: **Frank Berendse, Renato Casagrandi, Lisandro Benedetti - Cecchi** - Hall 6

09:15 - CS10.14 - Population dynamics of Hokkaido voles leads to Taylor's law
Takashi Saitoh, Joel E. Cohen

09:30 - CS10.15 - When three's a crowd: effects of parasitism on symbiotic organisms
Sonia Merinero, María Prieto

09:45 - CS10.16 - How distinct is the neglected dengue virus circulation among *Aedes aegypti* mosquitoes in nature?
Taissa Pereira Dos Santos, Keli Antunes Barbosa, Marcia Gonsalves de Castro, Flavia Barreto dos Santos, Ricardo Lourenço de Oliveira

10:00 - CS10.17 - Analysis of environmental matching for the prediction of invasion risk
Robert C. Cope, Joshua V Ross, Talia A Wittmann, Phillip Cassey

10:15 - CS10.18 - Intensive agriculture negatively affects the herbivore channel in soil
Maria Tsiafouli, Emilia Vagiona, Stefanos Sgardelis

10:30 - 11:00

COFFEE BREAK / POSTER SESSION

11:00 - CS10.19 - Responses of nematodes to climate: a trait-based approach

Maria Tsiafouli, Emilia Vagiona, Stefanos Sgardelis

11:15 - CS10.20 - Dispersal limitation of an epiphytic lichen in a managed boreal mixed-wood landscape

Rocio Belinchón, Juan Traba, Manuel Borja Morales, Douglas W. Morris

11:30 - CS10.21 - What are the drivers that shape composition and dynamics of the plant communities around street trees in urban zones?

Nathalie Machon, Omar Mona

11:45 - CS10.22 - Trophic groups and modules: two levels of group detection in food webs

Benoit Gauzens, Elisa Thebault, Gérard Lacroix, Stéphane Legendre

12:00 - CS10.23 - Comparing the conservatism of ecological interactions in plant-pollinator and plant-herbivore networks

Coline Fontaine

12:15 - CS10.24 - Trawling disturbance effects on coexistence processes: evidences from stable isotopes

Maria Cristina Mangano, Erika M.D. Porporato, Fabio Badalamenti, Nunzia-Carla Spanò, Gianluca Sarà

12:30 - CS10.25 - Food microbial food web dynamics in coastal waters of the south eastern Black Sea: mixing versus stratification period

Ulgen Aytan, Ali Muzaffer Feyzioglu, Ertugrul Agirbas, Andre Valente

12:45 - CS10.26 - Comparison of the trophic ecology of two mammals: the wild boar *Sus scrofa* L. 1758 and the porcupine *Hystrix cristata* L. 1758 in the northern slope of Djurdjura (north of Algeria)

Mansour Amroun, Ania Ben Ammar, Kahina Mallil, Katia Selmoun

09:15 - 13:15

S28 - NETWORKS OF MARINE PROTECTED AREAS IN THE MEDITERRANEAN AND THE BLACK SEAS: THE COCONET PROJECT



Convener: **Ferdinando Boero** - Hall 4

09:15 - S28.1 - MPA Networks in the Mediterranean and Black Seas and the feasibility of Offshore Wind Farms

Ferdinando Boero

09:45 - S28.2 - Socio-economic aspects of networks of MPAs

Paul Goriup

10:00 - S28.3 - Threats to environmental integrity

Enrique Macpherson

10:15 - S28.4 - Connectivity as the key for networks of MPAs

Lorenzo Zane

10:30 - 11:00

COFFEE BREAK / POSTER SESSION 

11:00 - S28.5 - CoCoNet Project: the role of the zooplankton in the MPAs connectivity of the South Adriatic Sea

Guglielmo Letterio, Granata A., Belmonte G., Hajderi E.

11:15 - S28.6 - Offshore Wind Farms and Marine Protected Areas: integration in the context of the FP7 CoCoNet Project

Takvor Soukissian, Sofia Reizopoulou, Paraskevi Drakopoulou, Panagiotis Axaopoulos, Flora Karathanasi, Laura Bray, Chara Kyriakidou, Evangelos Papanathanassiou, Anastasios Papadopoulos, Evangelos Voukouvalas

11:30 - S28.7 - Measuring community connectivity in the Adriatic and Ionian Seas

Paco Melià, Marcello Schiavina, Marisa Rossetto, Simonetta Frascchetti, Marino Gatto, Renato Casagrandi

11:45 - S28.8 - Beta-diversity, connectivity, and resilience potential in shallow subtidal assemblage

Simonetta Frascchetti, Stanislao Bevilacqua, Giuseppe Guarnieri, Vesna Macic, Ilaria Mura

12:00 - S28.9 - Heavy metal (Cu, Ni, Cd, Cr, Pb) accumulation in the organs of *Scorpaena porcus* Linnaeus, 1758 from the Romanian Black Sea

Dragos Micu, Mircea Nicoara, Gabriel Plavan, Stefan-Adrian Strungaru

12:15 - S28.10 - Geodatabase and WebGIS for data management and knowledge integration in the framework of the CoCoNet Project (Towards COast to COast NETWORKS of marine protected areas coupled with Sea based Marine energy Potential)

Federica Foglini, Valentina Grande

09:15 - 13:15

S29 - STABLE ISOTOPES IN ECOLOGY: CROSSING BOUNDARIES ACROSS DISCIPLINES AND SCALES



Conveners: **Juan Pedro Ferrio Díaz, Arthur Gessler, Cristina Maguas, Sara Palacio** - Hall 5

09:15 - Opening remarks
Sara Palacio

09:30 - S29.1 - Stable carbon isotope labeling: a versatile tool in research on plant allocation

Henrik Hartmann, Fischer S., Zhang H., Pereyra G., Forkelova L., Huang J. Trumbore S.

10:00 - S29.2 - C and N allocation on traditional and modern wheat varieties under preindustrial, current and future [CO₂] using stable isotopes

Salvador Aljazairi, Salvador Nogués

10:15 - S28.3 - Effects of experimental summer drought on the carbon allocation of two dwarf shrub species in the Central Alps

Alba Anadón-Rosell, Roland Hasibeder, Johannes Ingrisch, Alexander König, Sara Palacio, Stefan Mayr, Josep Maria Ninot, Salvador Nogués, Michael Bahn

10:30 - 11:00

COFFEE BREAK / POSTER SESSION 

11:00 - S29.4 - Stable isotope ratios of hydrogen separate mammals of aquatic and terrestrial food webs

Christian C. Voigt

11:30 - S29.5 - Unravelling water sources in gypsum plant communities through the use of stable isotopes

Sara Palacio, Gabriel Montserrat-Martí, José Azorín, Juan Pedro Ferrio

11:45 - S29.6 - Is uncoupling between soil and xylem water isotopic signatures actually occurring?

Paula Martín-Gómez, Todd E. Dawson, Juan Pedro Ferrio.

12:00 - S29.7 - Trade-offs among life functions constrain adaptive variation in *Pinus halepensis* mill.: a perspective from stable isotopes

Juan Pedro Ferrio, Jordi Voltas, Ester Sin, Luis Serrano, Ricardo Alia, Isabel Rodriguez, José Climent,

12:15 - S29.8 - Stable isotopes: A tool for understanding coastal dune forests' functioning under scenarios of global change

Cristina Máguas

12:30 - S29.9 - Intra-annual tree ring $\delta^{13}\text{C}$ across time: tracking the responses of *Q. petraea* to climatic variation

Elena Granda, Nicolas Delpierre, Stéphane Bazot, Chantal Fresneau, Anaïs Boura, Georgia Faccioni, Eric Dufrêne, Daniel Berveiller, Alice Michelot, Gaëlle Vincent, Claire Damesin

12:45 - S29.10 - Can we use d15N in lichens as an indicator of nitrogen pollution and a surrogate of nitrogen atmospheric isotopic composition?

Silvana Munzi, Cristina Branquinho, Cristina Cruz, Cristina Máguas, Ian Leith, Lucy Sheppard

11:00 - 12:30

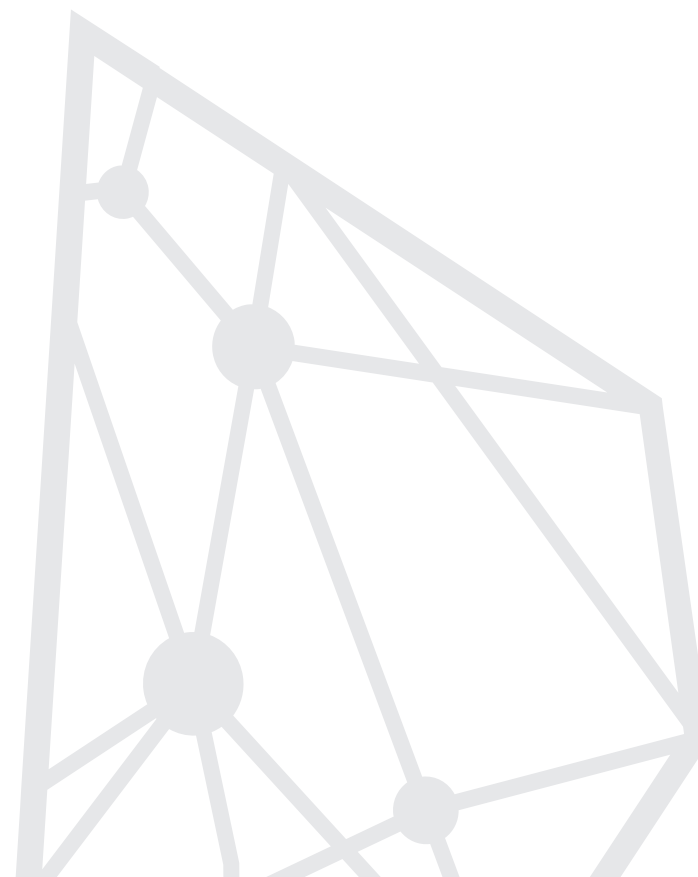
RT04 - ROMA E LE SUE ACQUE. VERSO UNA PROGETTUALITÀ



Conveners: **Alessandro Coppola, Edoardo Papa** - Hall 1

13:15 - 14:00

CLOSING CEREMONY - Hall 1





POSTERS

PS01 - ECOTOXICOLOGY

PS01.01 - Does perfluorooctanoic acid represent potential risk to fish fecundity?

Luisa Giari, Bahram Sayyaf Dezfuli, Giuseppe Castaldelli, Elisa Anna Fano, Fabio Vincenzi, Cristiana Guerranti, John Charles Rotondo, Fernanda Martini

PS01.02 - Effects of nano-TiO₂ and vancomycin on seed germination

Giusy Lofrano, Daniela Baldantoni, Giovanni Libralato, Alessandro Bellino, Ilaria Lodato, Maurizio Carotenuto

PS01.03 - Analyse of floristic composition of abandoned Cu-dumps field Piesky (Starohorské vrchy Mts, Slovakia)

Ingrid Turisová, Tomáš Štrba, Peter Sabo, Peter András, Štefan Aschenbrenner, Pavel Širka

PS01.04 - Comparison of bioaccumulation properties in *Pinus sp.* and *Quercus sp.* at the selected European Cu-deposits

Peter András, Ingrid Turisová, João Matos, Jana Dadová, Peter András Jr., Jiří Kupka, Giuseppe Buccheri

PS01.05 - Effects of ionic, micro- and nano-sized iron on *Lepidium sativum* as a reference biological model

Annamaria Volpi Ghirardini, Giovanni Libralato, Andrea Costa Devoti, Diego Minetto

PS01.06 - Nickel toxicity: Common Reed response to oxidative stress

Khaled Bouchama

PS01.07 - Combination effects of nano-TiO₂ and water accommodated fraction of crude oil (WAF) on biotransformation in the liver of European sea bass (*Dicentrarchus labrax*)

Maria Luisa Vannuccini, Camilla Della Torre, Elena Bocci, Elisa Bergami, Gloria Sampoli, Michael J. Leaver, Ilaria Corsi

PS01.08 - Bioavailability and bioaccessibility of lead in sediments from coastal and inland wetlands with different hunting activity

Stefania Ancora, Stefania Fortino, Monica Martinez-Haro, Denise Porretta, Nicola Bianchi, Rafael Mateo, Claudio Leonzio

PS02 - GLOBAL CHANGE ECOLOGY

PS02.1 - Strong resilience of soil respiration components to drought-induced die-off resulting in forest secondary succession

Josep Barba, Jorge Curiel Yuste, Rafael Poyatos, Ivan A. Janssens, Francisco Lloret

PS02.2 - Climate change affects biocrust ability to modulate soil moisture dynamics

Angela Lafuente, Miguel Berdugo, Fernando Tomas Maestre

PS02.03 - Effects of climate warming on forest soil mesofauna species richness

Janis Ventins, Ugis Kagainis, Ineta Salmane, Edite Jucevica, Viesturs Melecis

PS02.04 - Fertilization response to ocean acidification in the Antarctic sea urchin *Sterechinus neumayeri*

Ombretta Dell'Acqua, Danilo Pecorino, Valentina Asnaghi, Mariachiara Chiantore

PS02.05 - Vulnerability of amphibians and birds to climate change

Francesca Maura Cassola, Michela Pacifici, Carlo Rondinini

PS02.06 - An analysis of climate change impacts in the Gulf of Thailand

Thamasak Yeemin, Makamas Sutthacheep, Wichin Suebpala

PS02.07 - Vulnerability of *Cymodocea nodosa* to increased sediment burial and nutrient availability: implications in a changing climate

Claudio Lardicci, Elena Balestri

PS02.08 - Trophic niche of a dominant benthic predator, *Odontaster validus* (Asteroidea) associated to sea-ice cover at Tethys Bay (Ross Sea, Antarctica)

Marco Angeluzzi, Edoardo Calizza, Pasquale Carlino, Maria Letizia Costantini, Loreto Rossi

PS02.09 - C and N allocation study with stable isotopes in cereals at past, present and future [CO₂] modulated by nitrogen availability

Salvador Aljazairi, Claudia Arias, Salvador Nogués

PS02.10 - *Cymodocea nodosa* response to simulated CO₂-driven ocean acidification: a first insight from global transcriptome profiling
Miriam Ruocco, Francesco Musacchia, Lazaro Marin-Guirao, Remo Sanges, Irene Olivé, Monya M. Costa, Isabel Barrote, Rui Santos, Gabriele Procaccini, João Silva

PS02.11 - Evolution of peat under the black alder forest of Demnet Errihane (El Kala National Park - north- east of Algeria)
Samir Chekchaki, Djalil Zaafour, Mohamed Benslama

PS02.12 - Decomposition of organic matter in a climate change scenario: investigating potential interactions between decomposition forcing factors
Franca Sangiorgio, Daniela Santagata, Alberto Basset

PS02.13 - Human pressures predict species' geographic range size better than biological traits
Moreno Di Marco, Luca Santini

PS02.14 - Ecophysiological responses of coastal forests to groundwater changes: comparing functional groups and climatic regions
Cristina Antunes, Ângela Pereira, Andreia Anjos, Simone Vieira, Maria Cruz Diaz Barradas, Maria Zunzunegui, Maria João Pereira, Cristina Máguas

PS03 - AQUATIC ECOLOGY

PS03.1 - The European S&T Med project: linking marine ecology, technology and economics in the cross-frontier promotion of sustainable tourism
Eugenio Rastelli, Raffaella Casotti, Augusto Passarelli, Nino Plastina, Vincenzo Saggiorno

PS03.2 - Bioaccumulation of heavy metals in the muscle tissue of two economically important fish species from two impoundments of the Olifants River system
Abraham Addo-Bediako, Antionette Jooste, Sean Marr

PS03.3 - Great Cormorant predation on an endemic and threatened fish, the Cisalpine Pike: a conservation conflict
Stefano Fenoglio, Giovanni Boano, Giovanni Battista Delmastro, Paolo Lo Conte

PS03.4 - Seasonal distribution of microphytobenthos in the oligotrophic continental shelf of Heraklion bay (Crete, eastern Mediterranean)
Panayota Koulouri, Manolis Mandalakis, Costas Dounas

PS03.5 - Five years monitoring of benthic harmful dinoflagellates *Coolia monotis*, *Ostreopsis cf. ovata* and *Prorocentrum lima*
Valentina Giussani, Valentina Asnaghi, Mariachiara Chiantore

PS03.6 - Validation of a fish-based index for Italian transitional water bodies
Matteo Zucchetta, Luca Scapin, Nicola Bettoso, Lisa Faresi, Bruno Floris, Gianluca Solinas, Cristiana Tola Malasa, Nicola Ungaro, Camilla Antonini, Barbara Catalano, Gianluca Franceschini, Marina Penna, Benedetta Trabucco, Annamaria Cicero, Piero Franzoi

PS03.7 - Challenges and scientific cooperation for the study of Mediterranean coralligenous habitats: CIGESMED European program
Romain David, Christos Arvanitidis, Melih Ertan Çinar, Stéphane Sartoretto, Drosos Koutsoubas, Anne Chenuil, Giulia Gatti, Jean-Pierre Feral

PS03.8 - *Limnoria quadripunctata* (Isopoda: Limnoriidae) in the Adriatic
Davide Tagliapietra, Irene Guarneri, Erica Keppel, Andrea Bergamasco, Sandra Donnici, Luigi Tosi, Marco Sigovini

PS03.9 - The susceptibility of corals to thermal stress by analyzing Hsp60 expression
Paolo Galli, Davide Seveso, Simone Montano, Ivan Orlandi, Marina Vai

PS03.10 - Eutrophication status of the Black Sea (Turkey) using BEAST
Mustafa Asım Mantıkcı, Colpan Polat Beken, Hakan Atabay, Ibrahim Tan, Ahsen Yuksek

PS03.11 - Using fish community to identify success criteria for seagrass habitat restoration
Luca Scapin, Matteo Zucchetta, Chiara Facca, Adriano Sfriso, Piero Franzoi

PS03.12 - Plant-herbivore interactions in a tropical mangrove ecosystem
Judith C Klein, Vincent Peres, Thi Thuy Duong, Dinh Tu Nguyen, Thi Xuan Phuong Nguyen, Vu Thanh Nguyen

PS03.13 - Spatio-temporal dynamics of the alien species *Rhithropanopeus harrisi* (Crustacea: Panopeidae) and *Xenostrobus securis* (Mollusca: Mytilidae) in Tuscan brackish environments
Joachim Langeneck, Luca Rindi, Michele Barbieri, Fabio Bulleri, Ferruccio Maltagliati, Alberto Castelli

PS03.14 - Why, how and to what extent restoration of Lower Danube Land-Waterscape (LDLW) is required?

PS03.15 - Tracking the past: from shape and surface recent evolution to archaeological inference of ecosystem services of coastal lagoons to early human settlements

Giovanna Occhilupo, Marcello Guaitoli, Silvia Giulio, Alberto Basset

PS03.16 - Assessment of water quality of Lagos lagoon with respect to protection of aquatic life

Lanre Ogunyebi, Anthony Abah

PS05 - BIODIVERSITY AND ECOSYSTEMS

PS05.1 - LIFE to ad(d)mire; mire restorations in Sweden

Lisa Tenning

PS05.2 - Divergent diversity patterns of species richness in bryophytes and vascular plants across Europe

Rubén G. Mateo, Olivier Broennimann, Signe Normand, Blaise Petitpierre, Jens-C. Svenning, Andrés Baselga, Miguel B. Araújo, Miska Luoto, Federico Fernández, Virgilio Gómez-Rubio, Benjamin Laenen, Aurélie Désamoré, Jesús Muñoz, Antoine Guisan, Alain Vanderpoorten

PS05.3 - Fish community composition of the Po river Delta lagoons in relation to environmental features and human exploitation

Mattia Lanzoni, Giuseppe Castaldelli, Vasileios Aschonitis, Valentina Mattioli, Matteo Merighi, Elisa Anna Fano

PS05.4 - Responses of soft-bottom bacterial diversity and processes to oxygen depletion and recovery: insights from manipulation experiments in the Venice lagoon

Lucia Bongiorni, Daniele Longhi, Mariachiara Naldi, Daniele Nizzoli, Alberto Pallavicini, Pierluigi Viaroli

PS05.5 - Aromatic hydrocarbon utilization ability of *Chromohalobacter* sp.

Kiymet Guven, Sevim Feyza Erdogmus, Safiye Elif Korcan, Muhsin Konuk, Mehmet Burcin Mutlu

PS05.6 - Biosorption of mercury by *Mucor* sp. isolated from ceramic waste

Alaettin Guven, Elif Hasgul, Semra Malkoc, Kiymet Guven

PS05.7 - Structural complexity and environmental gradients affect meiofaunal distribution and diversity associated to vermetid reefs

Francesca Ape, Emma Capruzzi, Renato Chemello, Gianluca Sarà, Michele Gristina, Simone Mirto

PS05.8 - Soil-vegetation relationship in the watersheds of the Tonga and Oubeira lakes (National Park of El Kala, Algeria)

Mohamed Djalil Zaafour, Samir Chekchaki, Mohamed Benslama

PS05.9 - Plant and arthropod communities in *Myriophyllum aquaticum* (Vell.) Verdc. invaded and uninvaded waters in a Mediterranean wetland (Tuscany, central Italy)

Lorenzo Lastrucci, Lorenzo Lazzaro, Lorella Dell'Olmo, Bruno Foggi, Fabio Cianferoni

PS06 - FOREST ECOLOGY AND DYNAMICS

PS06.1 - Changes in soil chemistry and soil microbial biomass after shrub encroachment in the Spanish Pyrenees

Sara Palacio, Melchor Maestro, Blanca Santamaría, Juan José Jiménez, Elena Lahoz, José Azorín, Gabriel Montserrat-Martí

PS06.2 - Interrelations of *Pinus sylvestris* L. and *Lophodermium pinastri* Schard. potential ranges in central Siberia in a warming climate

Elena I. Parfenova, Nadezhda M. Tchebakova, Nina A. Kouzmina, Sergei R. Kouzmin, Vera A. Senasheva

PS06.3 - Influence of plant litters on soil bacterial and fungal growth in Mediterranean forests

Felicia Grosso, Felicia Grosso, Erland Bååth, Flavia De Nicola

PS06.4 - Contrasting ecophysiological strategies related to drought: the case of a mixed stand of *Pinus sylvestris* – *Quercus subpyrenaica*

Paula Martín-Gómez, Mònica Aguilera, Jesús Pemán, Eustaquio Gil-Pelegrín, Juan Pedro Ferrio

PS06.5 - Thermal imaging of forest canopy temperatures: relationships with biological and biophysical drivers and ecosystem fluxes

Christopher Still, Youngil Kim, Beverly Law, Chad Hanson, Hyojung Kwon, Ken Bible, Mark Schulze, Matteo Detto, Stephanie Pau

PS07 - EVOLUTIONARY ECOLOGY

PS07.1 - Flower colour polymorphism in *Silene littorea*: the white-petal morph shows anthocyanin and other flavonoids in the rest of the plant

Jose Carlos Del Valle, Ines Casimiro-Soriguer, Maria Luisa Buide, Eduardo Narbona

PS07.2 - Reproductive barriers in sympatry: selfing as a way to avoid competition for pollinators between two moth-pollinated species

M. Luisa Buide, José Carlos del Valle, Eduardo Narbona

PS08 - AGRICULTURAL ECOLOGY

PS08.1 - Dung beetles (Coleoptera: Scarabaeoidea) drive ecosystem functioning in Alpine grasslands

Beatrice Nervo, Enrico Caprio, Luisella Celi, Giampiero Lombardi, Michele Lonati, Gloria Falsone, Gabriele Iussig, Claudia Palestrini, Daniel Said-Pullicino, Antonio Rolando

PS08.2 - Ground-dwelling beetles in maize agroecosystems of northern Italy: their potential as biodiversity indicators

Francesco Lami, Antonio Masetti, Daniele Sommaggio, Giovanni Burgio

PS08.3 - Biological soil quality indicators and sustainable viticulture: a case study in the Verdicchio terroir of Matelica (Italy)

Antonietta La Terza, Santosh Kumar, Daizy Bharti, Silvia Marinsalti, Emilio Insom

PS08.4 - Locating nitrate vulnerability in mountain catchments

Roberta Bottarin, Uta Schirpke, Ulrike Tappeiner

PS08.5 - Structure of the soil microbial community and soil enzymatic activity as influenced by decomposing spearmint leaves

Nikos Monokrousos, Antonis Mazis, John M. Halley, Despoina Vokou

PS08.6 - Do vineyards contribute to conserve plant species of arid grasslands?

Juri Nascimbene, Lorenzo Marini, Diego Ivan, Valentina Casagrande, Michela Zottini

PS08.7 - The role of farming practices in shaping communities of earthworms in organic rainfed arable fields

Paola Baldivieso-Freitas, Jose M. Blanco-Moreno, Alejandro Pérez-Ferrer, F. Xavier Sans-Serra

PS08.8 - Innate and learnt preferences of an anthocorid predator towards maize damaged plants by herbivores with different feeding strategies

Agnès Ardanuy, Ramon Albajes, Ted C.J. Turlings

PS08.9 - Possible effects of phenological mismatch between flowers and pollinators in apple orchards

Ádám Kőrösi, Anikó Kovács-Hostyánszki, László Somay, Rita Földesi, Miklós Sárospataki, András Báldi

PS08.10 - An integrated approach to achieve environmentally sustainable control of the new emerging pest *Drosophila suzukii* in cherry orchards of Emilia-Romagna

Stefano Civolani, Stefano Cassanelli, Maria Luisa Dindo, Elisa Anna Fano, Santolo Francati, Maria Gullo, Stefano Maini, Lara Maistrello, Elisa Marchetti, Stefano Lugli, Giacomo Vaccari, Stefano Caruso

PS08.11 - Long- and short-term effects of olive pomace amendment on soil quality

Elisa Niro, Michele Innangi, Teresa Bertolini, Luigi Nasini, Primo Proietti, Alberto Agnelli, Luca Regni, Luisa Massaccesi, Simona Castaldi, Antonietta Fioretto, Rosaria D'Ascoli

PS08.12 - Contribution to the study of the influence of cultural practices on structural stability and organic soil potential of the plain of Annaba, Algeria

Atika Daroui

PS08.13 - Chemical and organoleptic characteristics of tomato puree enriched with lyophilized tomato pomace

Valeria Romanucci, Costantina Barbarisi, Giulia Maisto, Anna De Marco, Giovanni Di Fabio, Armando Zarrelli

PS08.14 - Differentiated metal accumulation in *Helianthus annuus* L. and *Sorghum bicolor* L. grown in the field under Mediterranean climate condition

Francesco Esposito, Luca Vitale, Valeria Memoli, Carmen Arena, Anna De Marco, Anna Tedeschi, Giulia Maisto, Daniela Famulari, Vincenzo Magliulo

PS08.15 - Relationships among soil properties, functional leaf traits, fruits and oil quality in different cultivars of *Olea europaea* L.

Costantina Barbarisi, Carmen Arena, Maria Grazia Volpe, Anna De Marco

PS09 - ECOLOGICAL MODELLING & BODY SIZES ALLOMETRIES AND PATTERNS

PS09.1 - Scaling whole tree water use in young individuals of Japanese cedar in relation to above- and belowground respiration, size and growth rate
Juan Pedro Ferrio, Taku Aizawa, Hiromu Hoshido, Mofei Wang, Shigeta Mori

PS09.2 - Cross-community scaling of macro-invertebrate guilds: decoding deviation from metabolic expectation into potential mechanism
Vojsava Gjoni

PS09.3 - Country-based models for predicting tropical deforestation in the 21st century

Luca Parenti, Carlo Rondinini, Moreno Di Marco

PS09.4 - Soil factors improve predictions of plant species distribution in mountain environment

Aline Buri, Carmen Cianfrani, Jean-Nicolas Predarvand, Antoine Guisan

PS10 - POPULATION AND COMMUNITY ECOLOGY & FOOD WEBS, NETWORKS & COMPLEXITY

PS10.1 - The seasonal change in Antarctic sea-ice cover influences the structure of invertebrate food web at Terra Nova Bay (Ross Sea)

Edoardo Calizza, Valeria Avramo, Pasquale Carlino, Maria Letizia Costantini, Loreto Rossi

PS10.2 - *Liza ramada* (Risso 1826): how many kinds of diet? Trophic niches of mullet fish in different environmental contexts using stable isotope approach

Pasquale Carlino, Flavia Bentivoglio, Gianluca Fascioli, Davide Cicala, Giulio Careddu, Edoardo Calizza, Maria Letizia Costantini, Loreto Rossi

PS10.3 - Intraspecific trait changes promote species coexistence

Ursula Gaedke

PS10.4 - Can we use niche models of indicator species to predict the distribution of endangered communities?

Rosa M. Chefaoui, Sergio Chozas, Otilia Correia, Ana M.C. Santos, Joaquín Hortal

PS10.5 - The reproductive cycle of the thermophilous echinoid *Arbacia lixula* (Linneo, 1815)

Paola Gianguzza

PS10.6 - Settlement and post-settlement determinants of *Paracentrotus lividus* sea urchin recruitment

Giulia Ceccherelli, Simone Farina, Stefania Pinna, Ivan Guala, Davide Agnetta, Pierre Antoine Ariotti, Francesco Mura, Silvia Oliva

PS10.7 - Ecological dominance by tall perennial herb (*Sambucus ebulus* L.) in productive habitats

Pavol Elias

PS11 - MACROECOLOGY & SCALING

PS11.1 - Seasonal trends and spatial pattern of bryophytes in Mediterranean temporary ponds

Giorgia Filippino, Annalena Cogoni, Michela Marignani

CS12 - BIOGEOGRAPHY AND LANDSCAPE ECOLOGY

PS12.1 - Analysis of spatial distribution drivers affecting endemic plants from Mediterranean islands

Giuseppe Bonanno, Vincenzo Veneziano, Pietro Pavone

PS12.2 - Analyzing the effects of local people on landscape change and transformation in Ahir Mountain, Turkey

Hakan Doygun

PS12.3 - Landscape characterization and urban context of urban parks in Montpellier city, France

Vittoria Milano, Jerome Cortet, Giulia Maisto, Sandro Strumia, Antonio Croce, Cyril Bernard, Florence Dubs

PS12.4 - Tracing the evolutionary history of the European mole by coupling mtDNA phylogeography and species distribution modelling

Roberto Feuda, Anna A. Bannikova, Elena D. Zemlemerova, Mirko Di Febbraro, Anna Loy, Rainer Hutterer, Gaetano Aloise, Alexander E. Zykov, Flavia Annesi, Paolo Colangelo

PS12.5 - Follow the beetle: a long history of Mediterranean island colonization

Simone Fattorini, Giovanni Strona

PS13 - BIOGEOCHEMISTRY IN TERRESTRIAL & AQUATIC ECOSYSTEM

PS13.1 - Trace gases exchange at ecosystem level in an urban forest in Naples

Gabriele Guidolotti, Raffaella Esposito, Michele Mattioni, Emanuele Pallozzi, Carlo Calfapietra

PS13.2 - Soil effects of afforested tree species: trace elements stabilization and carbon sequestration

Teodoro Marañón, Carmen Navarro-Fernández, María-Teresa Domínguez, Paula Madejón, José-Manuel Murillo

PS13.3 - Contribution of representative ground covers of semiarid ecosystems to soil CO₂ efflux

Sonia Chamizo, Yolanda Cantón, Enrique P. Sánchez-Cañete, Emilio Rodríguez-Caballero, Francisco Domingo

PS13.4 - The effect of non rainfall water inputs on biocrusts activity

Yolanda Canton Castilla, Sonia Chamizo, Emilio Rodriguez-Caballero

PS14 - ECOLOGY & SOCIETY

PS14.1 - Phoenix flagships: conservation values and guanaco reintroduction in an anthropogenic landscape
Adrien Lindon, Meredith Root-Bernstein

PS14.2 - Butterflies as ambassadors for biodiversity knowledge transfer
Karin Ulbrich, Elisabeth Kühn, Oliver Schweiger, Stefan Klotz, Josef Settele

PS14.3 - Raising public awareness about sacred forests using the bio-cultural values of ancient trees
Despoina Vokou, Kalliopi Stara, Paraskevi Mani, John M. Halley

PS14.4 - Emerging integrated SPSI for sustainable governance and management across Romanian watersheds
Magdalena Maria Bucur, Nicoleta Geamana, Angheluta Vadineanu

PS15 - PHYSIOLOGICAL ECOLOGY

PS15.1 - Algal bioremediation of aquaculture wastewater: a study on the capability of *Chaetomorpha linum* and *Cladophora prolifera* in removing nutrient surplus
Francesca Aquilino, Annalisa Paradiso, Pierluigi Carbonara, Giuseppe Corriero, Maria Concetta de Pinto

PS16 - CONSERVATION ECOLOGY

PS16.1 - Ecology and conservation of threatened lichens in the Iberian peninsula: from individuals to populations
Sonia Merinero, Gregorio Aragón, Isabel Martínez

PS16.2 - Isotopic variability of potential trophic resources of Apennine brown bear (*Ursus arctosmarsicanus*) in Abruzzo, Lazio and Molise national park
Stella Mondovì, Edoardo Calizza, Pasquale Carlino, Paolo Ciucci, Maria Letizia Costantini, Loreto Rossi

PS16.3 - Exploring forecasting tools: correlative vs mechanistic approaches
Maria Cristina Mangano, Giovanna Ficano, Simone Mirto, Gianluca Sarà

PS16.4 - Life barbie - conservation and management of *Barbus meridionalis* and *Barbus plebejus* in the Emilian tributaries of Po River
Federica Piccoli, Sonia Anelli, Marco Bartoli, Christian Farioli, Enrica Montanini, Francesca Moretti, Tommaso Pagliani, Armando Piccinini, Willy Reggioni, Daniela Sciarra, Andrea Voccia, Rossano Bolpagni, Francesco Nonnis Marzano

PS16.5 - Protected area network and conservation efforts to the threatened amphibians in the Brazilian Atlantic forest
Felipe Siqueira Campos, Gustavo Llorente, Leire Rincon, Ricardo Lourenço-de-Moraes, Mirco Solé

PS16.6 - Building up a network for monitoring conservation status of threatened species
Iker Pardo, Pablo Tejero, Daniel Gómez, David Guzmán, María B. García

PS16.7 - Conservation of biodiversity in ferruginous campo rupestre located at Serra do Rola Moça State Park, Minas Gerais – Brazil
Alessandra Furtado Fernandes

PS16.8 - Fishing impact at the interface between cold-water coral area and exploited area in the northern Ionian sea (Mediterranean sea)
Letizia Sion, Crescenza Calculli, Francesca Capezzuto, Roberto Carlucci, Gian Franco D'onghia, Porzia Maiorano, Alessio Pollice, Tommaso Russo, Angelo Tursi

PS16.9 - Multi-scale GIS and statistical analysis of Natura 2000 network: highlighting current vulnerabilities and peculiarities to improve biodiversity conservation in Mediterranean regions.
Silvia Giulio, Alberto Basset, Maurizio Pinna, Barbara Loconsole, Sotiris Kandrelis, Markos Avlonitis

PS17 - ECOSYSTEM SERVICES & SOCIAL BENEFITS

PS17.1 - Evaluating the impact of recent land use changes on natural capital and natural ecosystem services in Italy
Mattias Gaglio, Vassilis George Aschonitis, Giuseppe Castaldelli, Elisa Anna Fano

PS17.2 - Biofouling as a provider of organic matter cleaning services: an aquaculture case study in Sicily
Alessandro Rinaldi, Valeria Montalto, Simone Mirto, Gianluca Sarà

PS17.3 - Estimation of Hydrological Ecosystem Service in agro-ecosystem for Circeo National Park
Rossana Cotroneo, Stefano Tersigni, Donatella Vignani, Paola Giordano, Gina Galante, Fausto Manes

PS17.4 - The effect of biocrust on ecosystem services, and their importance for drilands management
Emilio Rodriguez Caballero, Sonia Chamizo, Antonio Castro, Cristina Quintas-Soriano, Marina García-Llorente, Yolanda Canton, Bettina Weber

PS18 - ECOLOGICAL NICHE & INTERACTIONS

PS18.1 - Genetic diversity and ecological niche modelling of two epiphytic lichens with contrasting dispersal modes

Rocío Belinchón, Rebecca Yahr, Chris J. Ellis

PS18.2 - Feeding ecology of Italian crested newt *Triturus carnifex* (Laurenti, 1768) in the central Apennines (Italy): combining stable isotopes and stomach contents analysis

Giulio Careddu, Nicolò Carlini, Antonio Romano, Flavia Bentivoglio, Edoardo Calizza, Pasquale Carlino, Maria Letizia Costantini, Loreto Rossi

PS19 - ECOLOGICAL RESILIENCE & SUSTAINABILITY

PS19.1- Substrates quality after short and long-time by compost application

Valeria Memoli

PS19.2 - Agriculture and climate changes in EU countries: resilience's measure

Rossana Cotroneo, Massimo Greco, Daniela Fusco, Paola Giordano, Valerio Moretti

PS19.3 - Indicators for assessing resilience of forest ecosystem services: a review based on the DPSIR framework

Ana Sofia Vaz, Carlos Vila-Viçosa, Joana Raquel Vicente, A. Jesus Muñoz-Pajares, João Pradinho Honrado

PS20 - EDUCATION TO SUSTAINABILITY

PS20.1 - Satoyama conservation initiatives in the Philippines: the case of the Open Online Course of the University of the Philippines Open University

Inocencio Jr Escoton Buot

PS20.2 - Why and how higher education system should react to major challenges arising from transdisciplinary science of sustainability?

Angheluta Vadineanu

PS20.3 - Digital Diorama project: initial results from school testing

Annastella Gambini, Antonella Pezzotti, Alfredo Broglia

PS21 - HIDDEN & DARK BIODIVERSITY - FROM MOLECULES TO MACRO ECOLOGY

PS21.1 - The evolutionary and ecological history of Talitrid amphipods (Crustacea, Amphipoda) of the Mediterranean-east Atlantic area.

Elvira De Matthaeis

PS22 - MOLECULAR ECOLOGY

PS22.1 - Antioxidant and stress-related genes in the seagrass *Posidonia oceanica* in the vicinity of natural CO₂ vents at different nutrient conditions

Chiara Lauritano, Fabio Bulleri, Chiara Ravaglioli, Laura Tamburello, Maria Cristina Buia, **Gabriele Procaccini**

PS22.2 - Ecological and evolutionary consequences of a colonization event: the case study of the mosquitoes *Aedes mariaae* and *Ae. zammitii*

Valentina Mastrantonio, Daniele Porretta, Giuseppe Nascetti, **Sandra Urbaneli**

PS22.3 - Establishment of networks of MPAs: incorporating information on genetic connectivity of benthic ecosystem engineers in pilot projects

Marlene Jahnke, **Emanuela Dattolo**, Gabriele Procaccini

PS23 - PARASITES, PATHOGENS & WILDLIFE DISEASE

PS23.1 - Ecological processes drive the epidemiology of environmental pathogens

Lasse Ruokolainen

PS24 - PERTURBATION ECOLOGY & ECOLOGICAL INDICATORS

PS24.1 - Using water quality standards and macrobenthic populations to develop a prioritization system for restoration plans of the lotic systems of northern Italy

Fabio Vincenzi, Vasileios Aschonitis, Giuseppe Castaldelli, Elisa Anna Fano

PS24.2 - Effect of Solofrana River flooding on soil microbial community

Flora Angela Rutigliano, Rossana Marzaioli, Walter Lamberti, Marco Trifuoggi

PS25 - TROPICAL ECOLOGY

PS25.1 - Spatial patterns of soil ecosystem engineers' functional domains determine ecosystem function

Juan J. Jiménez, *Thibaud Decaëns, Jean-Pierre Rossi, Patrick Lavelle*

PS25.2 - Global change and primary productivity in tropical forest

Simone Aparecida Vieira, *Marcos Augusto Scaranello, Luis Carlos Quimbayo Guzman, Cinthia Aparecida da Silva, Yvonne Vanessa Bakker, Carlos Alfredo Joly*

PS26 - URBAN RESILIENCE & SUSTAINABILITY

PS26.1 - The ecological status and heavy metal pollution in small tributaries of Tiber river in the urban area of Rome (Italy)

Filippo Chiudioni, *Teresa Trabace, Achille Palma, Spartaco Di Gennaro, Fausto Manes, Stefania Marcheggiani, Camilla Puccinelli, Roberto Giuseppetti, Laura Mancini*

PS27 - ANY OTHER TOPIC

PS27.1 - Innovative feeds and systems for sea urchin farming

Maria Paola Ferranti, *Lorenzo Cannella, Danilo Pecorino, Gina de la Fuente Mancebo, Valentina Asnagli, Doriana Sicurelli, Mariachiara Chiantore*

PS27.2 - Tracking the way of phenanthrene uptake in mosses

Valeria Spagnuolo, Flavia De Nicola, Diana Marinaro, Francesca Figlioli, Rosa Carotenuto, Simonetta Giordano

PS27.3 - Spatial distribution and contamination levels in the marine sediments of the Gulf of Manfredonia (Italy)

Raffaele D'Adamo, *Daniele Cassin, Lucrezia Cilenti, Adele Fabbrocini, Tommaso Scirocco, Antonietta Specchiulli, Roberto Zonta*

PS27.4 - Best practices, good practices and guidelines: a critical review based on different management options in protected areas of cross-boundary Adriatic-Ionian region

Luigi Potenza, *Fabio Bozzeda, Silvia Giulio, Maurizio Pinna, Alberto Basset*

PS27.5 - Bioremediation of chronically oil-polluted marine sediment using beats of hydrocarbons-degrading bacteria

Santina Santisi, *Dellagnezze Martins B., Catania V., Catalfamo M., Bonsignore M., Volta A., Gentile G., De Oliveira M. V., Quatrini P., Castermans B., Yakimov M.M., Cappello S.*

PS28 - PHYTOPLANKTON TRAITS

PS28.1 - To float or to sink? A preliminary explanation to phytoplankton dilemma according to allometric scaling model and a novel method to study sinking rate

Durante Giulia, *Roselli Leonilde, Stanca Elena, Basset Alberto*

PS28.2 - New data-driven method from 3D confocal microscopy for calculating phytoplankton cell biovolume

Roselli Leonilde, *Stanca Elena, Paparella Francesco, Basset Alberto*

PS28.3 - Cyanobacterial succession, size structure and toxins in the volcanic lake Vico (Latium, Italy) over a five year period

Emanuela Viaggiu, Emanuele Gandola, Sara Bogialli, Federica Nigro, Di Gregorio, Emanuele Ferretti, Luca Lucentini, Roberta Congestri

PS28.4 - The determinants of seasonal and vertical trait dynamics in phytoplankton communities, using long-term data from Germany's largest drinking-water reservoir

Valerie Wentzky, *Christoph Jäger, Karsten Rinke*

PS28.5 - Effects of weather extremes on phytoplankton structure and composition in a freshwater reservoir

Petr Znachor, *J. Nedoma, J. Hejzlar, J. Sedřa & J. Komárková*



PS29 – LTER

PS29.1 - Field environmental philosophy: integrating environmental ethics and ecological sciences at LTER-Chile

Paula Caballero, Camila Saldías, Verónica Morales, Francisca Massardo, Jaime Jiménez, Tamara Contador, Kelli Moses, Alvaro Nunez, Justin Williams, Juan L. Celis-Diez, Cristian Frene, Mariela Nuñez-Avila, Juan J. Armesto, Ricardo Rozzi

PS29.2 - Ecology and ethics in ILTER

Ricardo Rozzi, F. Stuart Chapin III, J. Baird Callicott, S. T. A. Pickett, Mary E. Power, Juan J. Armesto, Manuel Maass, Miguel Equihua, Terry Parr, Ben Li, Francisca Massardo, Roy H. May Jr

PS29.3 - An integrative analysis of the visible and invisible effects of Hurricane Jova on the Chamela LTER site in western Mexico

Juan C. Álvarez-Yépez, Angelina Martínez-Yrizar, Felipe Arreola, Raúl Ahedo, Patricia Balvanera, Julieta Benítez-Malvido, Eloisa Díaz-Francés, Ek del Val, Mayra Gavito, Eugenia González del Castillo Aranda, Victor J. Jaramillo, Manuel Maass, Miguel A. Ortega, Geoffrey Parker, Katherine Renton, Ireri Suazo

PS29.4 - Integrating scales and LTER methods to better understand the overall dynamics of a mountain protected space: the Ordesa and Monte Perdido National Park

M. Begoña García, PNOMP-LTER members

PS29.5 - Monitoring the impacts of global change in Sierra Nevada LTER platform: preliminary results

Francisco Javier Bonet-García, Regino Jesús Zamora Rodríguez, José Miguel Barea-Azcón, Antonio Jesús Pérez-Luque, Rut Aspizua Cantón.

PS29.6 - Ecohydrology across the global domain of ILTER

Kinga Krauze, Tiffany Troxler, Francisco Barbosa

PS29.7 - Biodiversity monitoring as an opportunity to engage ILTER in climate change mitigation

Miguel Equihua, Octavio Pérez-Maqueo, Nashieli García-Alaniz, Michael Schmidt, Julián Equihua, Pedro Maeda, Melanie Kolb, Arturo Hernández, Griselda Benítez, Sergio Ibañez, Manuel Maass, Terry Parr

PS29.8 - Monitoring of essential biodiversity variables in protected areas and environmental change: impact of rural abandonment in LTER montseny (north-east Spain) measured by means of indicators based on bird monitoring data

Sergi Herrando, Marc Anton, Lluís Brotons, Daniel Guinart

PS29.9 - A quarter-century monitoring of litterfalls and reproductive investment of trees in three forest sites of Japan LTER (JaLTER)

Hoshizaki, K., Noguchi, M., Shibata, M., Saito, S., Sato, T., Masaki, T.

PS29.10 - ILTER Nitrogen Initiative: Challenge for global comparative studies on nitrogen cycles

Hideaki Shibata

PS29.11 - Dominance controls diversity: Plant community responses to grazing from a worldwide meta-level analysis

Sally E. Koerner, Deron E. Burkepile, Melinda D. Smith, T. Mike Anderson, Meghan L. Avolio, Stephanie L. Eby, Elisabeth J. Forrestel, Nathan P. Lemoine, Dave I. Thompson, The Grazing Exclusion Consortium

PS29.12 - 21-year patterns of litterfall in relation to typhoon disturbance and prevailing climate

Kuo-Chuan Lin, Teng-Chiu Lin

PS29.13 - Studying species diversity and its linkage to ecosystem functions in the Fushan Experimental Forest, Taiwan – A long-term ecological study via a Forest Dynamics Plot

Yi-ching Lin, Jyh-Min Chiang, Sheng-Hsin Su, I-Fang Sun

PS29.14 - Long term monitoring of coral reefs in the Mexican Pacific: achievements and socio-ecological implications in a climate-changing world

Andrés López Pérez

PS29.15 - Changes in biodiversity and trade-offs among ecosystem services, stakeholders and components of well-being: the contribution of the ILTER to PECS

Manuel Maass, Patricia Balvanera, Jacques Baudry, Patrick Bourgeron, Jan Dick, Miguel Equihua, Martin Forsius, Lubos Halada, Kinga Krauze, Masahiro Nakaoka, Daniel E. Orenstein, Terry Parr, Charles L. Redman, Ricardo Rozzi, Margarida Santos-Reis, Angheluta Vădineanu

PS29.16 - Socio-ecological research at the Engure LTER platform, Latvia
Viesturs Melecis, Maris Klavins, Zaiga Krisjane, Anda Medene, Maris Laivins, Inara Melece, Gunta Sprunge, Mara Janaus, Solvita Rusina, Aina Karpa, Kristaps Vilks

PS29.17 - Large moorings arrays around South Africa– development in deep ocean mooring systems
Tamaryn Morris, Juliet Hermes, Isabelle Ansorge, Mike Roberts, Sabrina Speich, Lisa Beal

PS29.18 - A nationwide long-term monitoring survey of forest ecosystems in Japan
Niwa S., Suzuki S., Ueta M., Hidaka A., Hiura T.

PS29.19 - Long-Term Soil Warming Experiments in Cool-Temperate Forests-Belowground Carbon Dynamics
Noh, N.J., Saitoh, T.M., Nakaji, T., Nakamura, M., Hiura, T., Muraoka, H.

PS29.20 - Mapping production of biomass by annual plants in Mediterranean evergreen woodlands in the Montado LTSE platform
Pedro Pinho, Alice Nunes, Alzira Ramos, Melanie Batista, Lúcio do Rosário, Sara Mimo, Claudia Cordovil, Margarida Santos-Reis, Cristina Branquinho

PS29.21 - Broadening the societal relevance of international LTER Network carbon science and data
Tiffany Troxler

PS29.22 - Effects of altitude, soil warming, and litter accumulation on the decomposition by using tea bag experiments
Suzuki, S.N., Ida H., Kobayashi, H., Takahashi, K., Noh, N-J, Muraoka, H., Hirota, M., Seino, T., Suzuki, R.O., Kenta, T., Imura Y., Tsunoda, T., Niwa, S., Hiura, T.

PS29.23 - International perspectives from long-term research in ecosystem carbon cycling science: implications for global change research
Tiffany G. Troxler, Dario A. Fornara, Kate Lajtha, Sheng-Gong Li, Guanghui Lin, Fang Liu, Liudmila Mukhortova, Katarzyna Sawicka, Jianwu Tang, Rodrigo Vargas, Jordan Barr, Joanna M. Clark, M. Crawley, D. Tilman, Estella Vedrova

PS29.24 - Fostering ecological data sharing: collaborations in the International Long Term Ecological Research network
Kristin L. Vanderbilt, Chau-Chin Lin, Sheng-Shan Lu, Abd Rahman Kassim, Honglin He, Xuebing Guo, John H. Porter

PS29.25 - Linking long-term ecosystem monitoring to forest management for multiple ecosystem services
Urša Vilhar, Daniel Žlindra, Lado Kutnar, Primož Simončič



SIDE EVENTS

20:00 - 23:00

WELCOME COCKTAIL - Exhibition Area



15:00 - 19:00

EFF MEETING

17:45 - 19:00

MEETING OF THE PRESIDENT OF ECOLOGICAL SOCIETIES

17:00 - 19:00

SITE BOARD MEETING



PATRONAGES, SPONSORSHIPS & EXHIBITIONS

Patronages



Scientific Sponsors



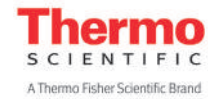
Istituto Superiore per la Protezione e la Ricerca Ambientale



SAPIENZA UNIVERSITÀ DI ROMA



The Exhibitors



Sponsors

