



# Multivariate Data Analysis Workshop

22-24 February 2010



## Meeting 2010 PhD Students and Post-docs in aquatic systems and ecology

24-26 February 2010

### PROGRAM

#### 22<sup>nd</sup> February, Monday:

09.00-10.00: Registration open for the Workshop

10.00-13.00: *Multivariate Data Analysis In Aquatic Ecology: Methods And Applications Workshop*

14.30-18.00: *Multivariate Data Analysis In Aquatic Ecology: Methods And Applications Workshop*

#### 23<sup>rd</sup> February, Tuesday:

09.00-13.00: *Multivariate Data Analysis In Aquatic Ecology: Methods And Applications Workshop*

14.30-18.00: *Multivariate Data Analysis In Aquatic Ecology: Methods And Applications Workshop*

#### 24<sup>th</sup> February, Wednesday:

9.00-12.00: *Multivariate Data Analysis In Aquatic Ecology: Methods And Applications Workshop*

12.00-14.30: Registration open for the Meeting

14.30-15.00: Opening:

**Prof. Marco Pacetti**, Rector of the Polytechnic University of Marche

**Prof. Ettore Olmo**, Dean of the Faculty of Science, Polytechnic University of Marche

**Prof. Roberto Danovaro**, President of the Italian Association of Oceanography and Limnology (A.I.O.L.)

**Prof. Pierluigi Viaroli**, President of the Italian Society of Ecology (S.It.E.)

**Prof. Alberto Basset**, Coordinator of the Italian National Consortium of PhD Schools in Ecology

**Prof. Oliana Carnevali**, Director of the PhD School in Science, Faculty of Science, Polytechnic University of Marche

**Prof. Giorgio Bavestrello**, Coordinator of the Marine Biology and Ecology Curriculum, PhD School in Science, Faculty of Science, Polytechnic University of Marche

15.30-16.00: **Prof. Simon Thrush** "*Homogenisation of communities and habitats*" National Institute of Water & Atmospheric Research, New Zealand

#### 16.00-17.00: Oral Session - Biodiversity and ecosystem functioning

16.00-16.15: Asnaghi V. Competition and recolonization dynamics of temperate reefs in the Ligurian Sea under global change sceneries.

16.15-16.30: Agostinelli V. Flood disturbance enhances species diversity but reduces functional diversity of ground beetles.

16.30-16.45: Zeppilli D. Role of the spatial heterogeneity on benthic diversity in the deep sea.

- 16.45-17.00: Fava F. Spatial-temporal variability and ecological processes in epibenthic assemblages of the Northern Adriatic sea outcrops.
- 17.00-17.15: Bertolino M. Sponges in the twilight zone of the Ligurian Sea.
- 17.15-17.30: Coffee break
- 17.30-18.35: Poster Session - Biodiversity, ecology and ecosystem conservation**
- 17.30-17.35: Accoroni S. Substrate and other environmental factors influence on the distribution of *Ostreopsis ovata* along the Conero riviera (N Adriatic Sea) during summer 2009.
- 17.35-17.40: Amadesi B. Biodiversity conservation of Italian wetlands by through Systematic Conservation Planning.
- 17.40-17.45: Lo Martire M. The role of interfaces on biodiversity and ecosystem functioning.
- 17.45-17.50: Lupini G. Phylogenetic composition of prokaryote assemblages in coastal systems with different trophic status
- 17.50-17.55: Palmeri V. Resource allocation as a tool to investigate the variability of ecological response.
- 17.55-18.00: Timpanaro A. Habitat requirements for the nesting site in *Symphodus ocellatus* (Forsskal, 1775).
- 18.00-18.05: Vasapollo C. Scales of spatial variability and the use of bioindicators in seagrass systems: an example with borer polychaetes and *Posidonia oceanica* shoot density.
- 18.05-18.10: Manrique Paredes R. S. Taxonomy diversity in the western belt of Peruvian coast.
- 18.10-18.15: Scarcella G. Ecological performance of rockfish *Scorpaena porcus* and *Scorpaena notata* associated with artificial structures and natural reefs in Adriatic Sea.
- 18.15-18.20: Tangherlini M. Viral dynamics in the deep, dark biosphere.
- 18.20-18.25: Ape F. Ocean acidification: effects on the microbial loop and meiofauna.
- 18.25-18.30: De Felice A. Krill stocks dynamics in relation to their natural preys and predators and the environment in the Ross Sea.
- 18.30-18.35: Bresciani M. Ecological characterization of freshwater cyanobacteria through the study of optical properties measured in situ and derived from satellite images

**20.30:** Social dinner

**25<sup>th</sup> February, Thursday:**

- 09.30-10.30: Prof. Paul Snelgrove** *Opening lecture on Marine Biodiversity.* Memorial University's Ocean Science Centre, Canada
- 10.30-12.30: Oral session - Global Change: from ecological to organisms responses**
- 10.30-10.45: Costa E. Proliferation of *Ostreopsis ovata* in the Ligurian Sea and their effects on benthic assemblages.
- 10.45-11.00: Ribaudo C. Greenhouse gases (CH<sub>4</sub>, CO<sub>2</sub>, N<sub>2</sub>O) emissions in wetlands characterized by different primary producers .
- 11.00-11.30: Coffee break
- 11.30-11.45: Krželj M. Long term ecological changes in the Adriatic Sea.
- 11.45-12.00: Mea M. Ecosystem responses to Dense Shelf Water Cascading events.
- 12.00-12.15: Felline S. Exotic eating effect: dietary accumulation of the red pigment caulerpi from invasive *Caulerpa racemosa* in tissues of the Mediterranean white seabream (*Diplodus sargus*).
- 12.15-12.30: Giovagnetti V. Photophysiological acclimation of the marine picoeucaryote *Phaeomonas* sp. RCC 503 (*Pinguicophyceae*, *Heterokonta*).

12:30-14:30: Lunch

**14.30-15.00: Cinzia Corinaldesi “From PhD student to assistant professor at the University”**

**15.00-17.00: Oral Session - Effects of anthropogenic impacts on ecosystems**

15.00-15.15: Laini A. “Fontanili” pollution by agriculture derived nitrates.

15.15-15.30: Trevisiol A. Multiproxy approach to the characterization of HSSW: study of the isotopic composition and trace metals in *Adamussium colbecki*.

15.30-15.45: Racchetti E. Assimilation rate and dissimilative reduction of nitrose.

15.45-16.00: Rocchetti L. Anaerobic bioremediation of contaminated sediments.

16.00-16.15: Todini C. Filtration rates and food assimilation of *Plumatella geimermassardi* (Phylactolaemata, Briozoa) from Colfiorito marsh (Umbria).

16.15-16.30: Centis B. The biases of diatoms in river: implications for the bioassessment methods.

16.30-16.45: Schiavina M. A physical-biological embedded model for the larval migration of the European eel (*Anguilla anguilla*).

16.45-17.15: Coffee break

**17.15-18.00: Poster Session–Development of new tools for investigate ecology and biodiversity**

17.15-17.20: La Manna G. Effect of anthropogenic noise on the occurrence, abundance and acoustic behaviour of Sperm Whale (*Physeter macrocephalus*) in the Gulf of Catania (Ionian Sea).

17.20-17.25: Brunelli F. Analyses of biomarkers in *Anguilla anguilla* in the Valli di Comacchio (N Adriatic Sea).

17.25-17.30: Buratti S. Il Neutral Red Retention Assay come test di screening nella valutazione della qualità ambientale.

17.30-17.35: Falcieri F. Northern Adriatic Dense Water and the absence of Sapropel S2. A “PaleoROMS” hydrodynamic numerical test.

17.35-17.40: Pacini N. Effects of melamine enriched diets on farmed fish species (*Oncorhynchus mykiss*).

17.40-17.45: Fonti V. Bio-Technological Strategies for Heavy Metal Contaminated Marine Sediments.

17.45-17.50: Nardelli M.P. An ecotoxicological approach for the study of benthic foraminifera.

17.50-17.55: Cavaro F. Genetics, ecology and behaviour of a biomonitor species of transitional aquatic ecosystems variability.

17.55-18.00: Soana E. Prokaryote and macrophyte responses to transient variations of N loads in secondary catchments and implications for mass balance.

**18.00-19.30: Round table “The future of scientific research in the field of ecology and aquatic sciences”**

**Nevio Dubbini**, Italian Association of PhD students (A.D.I.)

**Loretta Menghi**, Agency for the Promotion of European Research (A.P.R.E.)

**Prof. Roberto Danovaro**, President of the Italian Association of Oceanography and Limnology (A.I.O.L.)

**Prof. Pierluigi Viaroli**, President of the Italian Society of Ecology (S.It.E.)



**26th February, Friday:**

**9.30-10.00:** Simone Mirto “From PhD student to researcher at the National Research Council”

**10.00-11.15: Oral Session - Biodiversity, ecology and ecosystem conservation**

10.00-10.15: Bertani I. Life in the fast lane: what's regulating the zooplankton community in a large river?

10.15-10.30: Carraro E. Ecological importance of internal loads in the evolution of a southern alpine lake.

10.30-10.45: Casabianca S. Population genetics of *Alexandrium minutum* (Dinophyceae) in the Mediterranean Sea.

10.45-11.00: Rotini A. Proposal of new diagnostic tool to monitor Posidonia meadows conservation status: phenols content and 2-D electrophoresis protein pattern.

11.00-11.15: Sigovini M. Long-term series of macrobenthic assemblages in transitional coastal aquatic ecosystems: problems and approach to incoherent datasets.

11.15-11.45: Coffee break

**11.45-13.00: Oral Session: Marine Biology**

11.45-12.00: Fortibuoni T. Fishery in the N Adriatic Sea since the Serenissima.

12.00-12.15: Franzo A. Microphytobenthic response to mussel farm biodeposition in coastal sediments of the Gulf of Trieste.

12.15-12.30: Gialdi S. Endogenous response of *Heterocypris incongruens* (Crustacea: Ostracoda) hatching dynamics: maternal effect and diversified bet-hedging.

12.30-12.45: Graziano M.G. Analysis of the relationship between habitat structure and fish assemblages for the assessment of effectiveness of a marine protected area in Sicily.

12.45-13.00: Di Franco A. The plume effect and juvenile fish distribution patterns around MPAs: the case study of white seabream in the Southern Adriatic.

13.00-13.15: Fadda A. Pelagic trophic webs in Mediterranean aquatic environments: first results and comparison with a different lake.

13.00-13.15: Pica D. Taxonomy and Ecology of Stylasteridae (Cnidaria, Hydrozoa).

13:15-14:30: Lunch

**14.30-15.00: Mirko Magagnini: “PhD Doctors turn into the business”**

**15.00-16.00: Poster Session - Marine Biology**

15.00-15.05: D'Elia M. Use of acoustic descriptors for the identification of sardines and anchovies in the Sicily Straits.

15.05-15.10: Campanella F. An acoustic study on small pelagic fish juveniles in the Adriatic Sea in relation to the environment.

15.10-15.15: Casella P. Role of microplankton activity in the C flux in different trophic conditions.

15.15-15.20: Panfili M. Age determination and growth rates of early life stages of two small pelagic fishes in the Adriatic Sea (Italy).

15.20-15.25: Sahyoun R. Scales of connectivity and reproductive biology of the white sea bream (*Diplodus sargus sargus*): implications for MPAs' and small scale fishery management.

15.25-15.30: Tutino L. Identification of new enzymes able to digest glaidin from *Eriphia verrucosa* and *Palinurus elephas*.

- 15.30-15.35: Carpi P. Population dynamics of anchovy (*Engraulis encrasicolus*) and sardine (*Sardina pilchardus*) stocks in the Central and North Adriatic Sea: environmental factors and fishing effort.
- 15.35-15.40: Visconti G. Reproductive biology of *Arbacia lixula* (Linneo 1758).
- 15.40-15.45: Talamo A. Spatio-temporal dynamics of phytoplankton assemblages in hyperhaline systems: the Tarquinia saltworks.

**16.00:** Prizes and closure