



Mediterranean Seagrass Workshop Sardinia 2015

Workshop program

Oristano, Italy

May 18th - 22nd, 2015



MSW '15 overview

MONDAY MAY 18th

Arrival to Oristano, settle in and registration

18.00 MSW Welcome Cocktail

TUESDAY MAY 19th

9.30 – 10.30 Welcome and Opening speech

10.30 – 11.00 Coffee Break

11.00 – 13.00 Session 1

13.00 – 14.30 Lunch Break

14.30 – 15.45 Session 1 (cont.)

15.45 – 16.15 Coffee Break

16.15 – 18.00 Session 1 (cont.)

WEDNESDAY MAY 20th

8.45 – 9.30 Keynote Lecture

9.30 – 10.30 Session 2

10.30 – 11.00 Coffee Break

11.00 – 13.00 Session 2 (cont.)

13.00 – 14.30 Lunch Break

14.30 – 15.45 Session 3

15.45 – 16.15 Coffee Break

16.15 – 17.00 Session 3 (cont.)

17.00 – 18.30 Poster session I and II

20.30 MSW '15 dinner

THURSDAY MAY 21st

8.45 – 9.30 Keynote Lecture

9.30 – 10.30 Session 3 (cont.)

10.30 – 11.00 Coffee Break

11.00 – 13.00 Session 3 (cont.)

13.00 – 14.30 Lunch Break

14.30 – 16.30 Round Table

16.30 – 16.45 Coffee Break

16.45 – 18.15 Poster session III

18.15 – 19.30 Awards and MSW Wrap up

FRIDAY MAY 22nd

9.00 – 19.00 MSW Field trip

Workshop program in more details

MONDAY 18th

Arrival to Oristano, settle in and registration

18.00 MSW Welcome Cocktail

TUESDAY 19th

9.30 – 10.30 Welcome and Opening speech

10.30 – 11.00 COFFEE BREAK

Session 1. Seagrass biology and ecology

Chair: Abdessalem Shili

11.00 **Beer S.** - "Photosynthesis in the Marine Environment" - excerpts relevant for seagrasses

11.15 **Procaccini G., Dattolo E., Lauritano C., Ruocco M., Marín-Guirao L.** - *Posidonia oceanica* molecular adaptation to the light environment

11.30 **Dattolo E., Lauritano C., Ruocco M., Procaccini G.** - Circadian fluctuation of gene expression along a bathymetric cline in the marine angiosperm *Posidonia oceanica*

11.45 **Marín-Guirao L., Dattolo E., Ruiz J.M., Procaccini G.** - Differential tolerance and resilience of Mediterranean seagrasses to short-term heat stress

12.00 **Gonzalez E., Sanmartì N., Pérez M., Romero J.** - Negative effects of elevated temperature but not of high ammonium concentrations in the seagrass *Cymodocea nodosa*

12.15 **Celebi B., Zimmerman R.C., Hill V.J.** - Impacts of ocean acidification on photoacclimation of eelgrass *Zostera marina* L.

12.30 – 13.00 Discussion

13.00 – 14.30 LUNCH BREAK

Session 1. Seagrass biology and ecology (continue)

Chair: Lazaro Marín-Guirao

14.30 **Piro A., Iaquina V., Serra I.A., Bernardo L., Lucini L., Silva J., Olivé Samarra I., Mendes Costa M., Santos R., Mazzucca S.** - Analysis of leaf metabolic pathways in seagrasses living in high and normal CO₂ environments: a proteomics view

14.45 **Ruocco M., Procaccini G., Musacchia F., Sanges R., Olivé Samarra I., Mendes Costa M., Barrote I., Santos R., Silva J.** - *Cymodocea nodosa* response to simulated CO₂-driven ocean acidification: A first insight from global transcriptome profiling

15.00 **Buia M.C., Garrard S.L., Lorenti M., Rotini A., Migliore L., Porzio L., De Stefano M.** - Are all "not-calcifier" marine autotrophs winners in a changing pH world?

15.15 **Bakran-Petricoli T., Liber Z., Šatović Z., Radosavljević I., Kipson S., Schultz S.T.** - Population genetic structure of *Posidonia oceanica* meadows along the eastern Adriatic coast

- 15.30 **Abadie A., Bonacorsi M., Gobert S., Lejeune P., Pergent G., Pergent-Martini C.** - Patch types in *Posidonia oceanica* meadows around Corsica. How can we use them in seascape ecology?
- 15.45 – 16.15 **COFFEE BREAK**
- 16.15 **Azevedo A., Dias J.M., Lillebø A.I.** - Thriving of intertidal seagrass *Zostera noltei*: influence of sediment type and intertidal height
- 16.30 **Alagna A., Vega Fernandez T., D'Anna G., Fici S., Magliola C., Badalamenti F.** - Adhesive root hairs facilitate *Posidonia oceanica* seedling settlement on rocky substrates
- 16.45 **Bacci T., Rende S.F., Rocca D., Scardi M.** - Spatial micro-distribution of shoots in *Posidonia oceanica* (L.) Delile meadows
- 17.00 **Tomasello A., Sciandra M., Muggeo V.M.R., Pirrotta M., Di Maida G., Calvo S.** - References growth charts: a new practical tool for comparing *Posidonia oceanica* growth patterns accounting for age and depth
- 17.15 **Arland M., Barak S., Winters G.** - Insights into the invasiveness of *Halophila stipulacea*
- 17.30 – 18.00 Discussion

WEDNESDAY 20th

Session 2. Ecosystem interactions and associated communities

Keynote Lecture

- 8.45 – 9.30 **Alcoverro T.** - Herbivores as ecosystem engineers in seagrass ecosystems: present and past

Chair: Giulia Ceccherelli

- 9.30 **Gambi M.C., Keppel E., Guglielmo R., Giangrande A., Garrard S.L.** - Polychaetes associated to *Posidonia oceanica* meadows along a gradient of ocean acidification at a CO₂ vent system (Ischia, Italy)
- 9.45 **Sanmartí N., Ricart Martínez A., Romero J., Pérez M.** - The configuration of marine landscape influences herbivory on *Cymodocea nodosa* in a Mediterranean coastal bay
- 10.00 **Boada J., Selden R., Romero J., Alcoverro T.** - Quantitative modelling of the sea urchin *Paracentrotus lividus* population in the northwestern Mediterranean seagrass meadows of *Posidonia oceanica*
- 10.15 **Farina S., Oliva S., Guala I., Silva R., Piazzini L., Spanu M., Ceccherelli G.** - Landscape configuration of seagrass meadows regulates sea urchins predation in a Marine Protected Area: what is the role of bottom predators?
- 10.30 – 11.00 **COFFEE BREAK**
- 11.00 **Zubak I., Schultz S.T., Kruschel C., Blindow I.** - What drives fish community structure on *Posidonia oceanica* meadows? A review of available data across the Mediterranean basin
- 11.15 **Magni P., Como S., Kamijo A., Montani S.** - Effects of *Zostera* spp. beds on the spatial variation in macrozoobenthic assemblages of a boreal lagoon (Furen, Japan)
- 11.30 **Remy F., Mascart T., Dauby P., Gobert S., Lepoint G.** - Changes of macrofauna stable isotope compositions in a very inconstant seagrass detritic habitat: actual diet modification or baseline shift?
- 11.45 **Geneid Y.A., El Shaffai A.A.** - Invasion of an invader: a case study from the Suez Channel

- 12.00 **Ouisse V., Perron C., Fiandrino A., Giraud A., Rochette S.** - Potential distribution of *Zostera noltei* in Mediterranean French lagoons
- 12.15 **Berov D., Deyanova D., Klayn S., Karamfilov V.** - Distribution, structure and state of seagrass habitats in the SW Black Sea (Burgas Bay, Bulgaria)
- 12.30 – 13.00 Discussion
- 13.00 – 14.30 **LUNCH BREAK**

Session 3. Seagrass monitoring, management and conservation

Chair: Rym Zakhama-Sraieb

- 14.30 **Pace M., Borg J.A., Galdies C.** - Influence of hydrodynamic setting on *Posidonia oceanica* meadow landscape and architecture
- 14.45 **Zucchetto M., Taji M.A., Mangin A., Pastres R.** - A multiscale distribution model for *Posidonia oceanica*: hierarchical Bayesian modelling approach
- 15.00 **Ruiz J.M., Guillén J.E., Otero M.** - Atlas of seagrass habitats in Spain
- 15.15 **Valette-Sansevin A., Alami S., Bonacorsi M., Damier E., Pergent G., Pergent-Martini C.** - Continuous mapping of the main habitats of the Corsican littoral
- 15.30 **Shili A., Chaouachi B., El Bahri T., Baccar L., Maïz N.B., Boudouresque C.F.** - The ups and downs of aquatic Magnoliophyta species in the Ichkeul Lagoon (Tunisia): witnesses to climatic and hydrological episodes
- 15.45 – 16.15 **COFFEE BREAK**
- 16.15 **Pergent G., Pergent-Martini C., de Florinier M., Bonacorsi M., Clabaut P., Valette-Sansevin A.** - Assessment of carbon sequestered within the mat of the *Posidonia oceanica* meadow at the NATURA 2000 site “Grand Herbier de la Plaine Orientale”
- 16.30 **Richir J., Galgani F., Benedicto J., Andral B., Lejeune P., Salivas-Decaux M., Lafabrie C., Lopez y Royo C., Pergent G., Pergent-Martini C., Gobert S.** - Seagrasses or caged mussels to bioassess the contamination rate of Mediterranean coastal waters? That is the question
- 16.45 – 17.00 Discussion
- 17.00 – 18.30 Poster presentation (session I and II)
- 20.30 MSW '15 Dinner

THURSDAY 21st

Session 3. Seagrass monitoring, management and conservation (continue)

Keynote Lecture

8.45 – 9.30 **Montefalcone M., Vacchi M., Morri C., Ferrari M., Bianchi C.N.** - Seagrass ecosystems status between the sliding baseline syndrome and the need for reference conditions

Chair: Juan Manuel Ruiz

9.30 **Gobert S., Lepoint G., Silva J., Santos R., Lejeune P., du Jardin P., Delvaux B., Cornelis J.-T., Richir J.** - A consensual Diving-PAM protocol to monitor *Posidonia oceanica* photosynthesis

9.45 **Boumaza S., Sengouga A., Misraoui A., Boumaour A., Kahlal M., Larid M., Boukortt R., Semroud R.** - Assessment of the ecological status of Algiers coastal waters using two indices based on the seagrass *Posidonia oceanica*: PREI and BiPo

10.00 **Gerakaris V., Panayotidis P., Vizzini S., Nicolaidou A., Economou-Amilli A.** - Application of *Posidonia oceanica* classification systems to assess the ecological status in the Eastern Mediterranean: the case of Saronikos Gulf (Aegean Sea, Greece)

10.15 **Richir J., Salivas-Decaux M., Lafabrie C., Lopez y Royo C., Lejeune P., Pergent G., Pergent-Martini C., Gobert S.** - Trace element contamination severity of coastal waters: A first bioassessment at the scale of the whole Mediterranean

10.30 – 11.00 COFFEE BREAK

11.00 **Weatherdon L., Martin C.S., Mcowen C., Thomas H.** - Towards a global dataset of seagrass occurrences: current progress, knowledge gaps and challenges

11.15 **Ben Hmida A., Sghaier Y.R., Shili A., Rais C.** - Impact of benthic mini trawl on *Posidonia oceanica* meadow in the north-east of the Kerkennah Islands (Tunisia)

11.30 **Infantes E., Karlsson L., Crouzy C., Moksnes P-O.** - *Zostera marina* restoration methods in Sweden using seeds

11.45 **Buosi A., Facca C., Ponis E., Bonometto A., Boscolo R., Parravicini M., Centanni E., Siega A., Volpe V., Sfriso A.** - The Life “SeResto” project. A new strategic approach to meet HD & WFD objectives by SEagrass RESTOration

12.00 **Simeone S., Vacchi M., Monfalcone M., De Falco G.** - Beach cast *Posidonia oceanica* leaf litter vs beach morphology and dynamics

12.15 **Acunto S., Piazzini L., Cinelli F., De Biasi A.M., Pacciardi L., Ceraudo S., Fersini G.** - Transplantation of the Mediterranean seagrass *Posidonia oceanica* through naturalistic engineering techniques: value, weakness and further improvements

12.30 – 13.00 Discussion

13.00 – 14.30 LUNCH BREAK

14.30 – 16.30 Round Table: Conservation status of *Posidonia oceanica* meadows, their adaptive management and policy recommendations for future protection

16.30 – 16.45 COFFEE BREAK

16.45 – 18.15 Poster presentation (session III)

18.15 – 19.30 Awards & MSW '15 Wrap up

FRIDAY 22nd

Field trip

- Morning Meeting point: in front of the MSW venue (Mistral 2 Hotel)
- Departure to San Giovanni di Sinis (Cabras) in the MPA Penisola del Sinis – Isola di Mal di Ventre
- Visit around San Giovanni area: the archaeological site of Tharros, the tower, San Giovanni's church, shallow seagrass meadows of "Mare Morto" and Mistras lagoon, "Mare Vivo" beach, Capo San Marco.
- Lunch break Lunch on the beach
- Afternoon Meeting point: at the bus stop, side of the San Giovanni's church. Split in two groups:
- group 1 Visit to Archaeological Museum of Cabras / IMC laboratories
 - group 2 Visit to IMC laboratories / Archaeological Museum of Cabras

Back to the hotel is scheduled at approximately 19 pm

List of posters

Session I. Seagrass biology and ecology

1. **Bacci T., Pala D., Fasciglione P., Rende S.F., Nonnis O., Maggi C., Cossu A., Gabellini M.** - Spatio-temporal variability of *Posidonia oceanica* functional features along a depth gradient
2. **Beca P., Stengel D.** - Characterization of *Zostera marina* meadows on the Irish west coast and responses to experimental global warming scenarios – preliminary results
3. **Ben Souissi I., Shili A.** - Distribution, biomass and phenology of *Zostera noltei* meadows in the Northern lagoon of Tunis in the summer of 2014
4. **Bououarour O., El Kamcha R., Boutahar L., Tnoumi A., Bendahhou Z., Benhoussa A., Bazairi H.** - Spatial patterns of the *Zostera noltei* meadows across the Atlantic coast of Morocco: is there a latitudinal gradient?
5. **Elkalay K., Khalil K., Damsiri Z., Frangoulis C., Gobert S., Lepoint G.** - Marine primary production nutrient uptake model interaction and comparison
6. **Elkalay K., Khalil K., Frangoulis C., Gobert S., Lepoint G.** - Modelling of a plankton ecosystem interaction with the *Posidonia oceanica* in the Bay of Calvi
7. **Jahnke M., Pagès J.F., Alcoverro T., Lavery P.S., McMahon K.M., Procaccini G.** - Assessing the importance of genetic and ecological factors for the occurrence of the patchy flowering in *Posidonia oceanica*.
8. **Lauritano C., Bulleri F., Ravaglioli C., Tamburello L., Buia M.C., Procaccini G.** - Antioxidant and stress-related genes in the seagrass *Posidonia oceanica* in the vicinity of natural CO₂ vents at different nutrient conditions
9. **Radonjić I., Varda D., Mačić V.** - Contribution to the knowledge of *Posidonia oceanica* (L.) Delile in the Katič area (Montenegro) identified for designation as a Marine Protected Area
10. **Sghaier Y.R., Zakhama-Sraieb R., Ben Hmida A., Charfi-Cheikhrouha F.** - Spread of *Halophila stipulacea* (Forsskål) Ascherson (Hydrocharitaceae) along the Tunisian coast

Session II. Ecosystems interactions and associated communities

11. **Belando M.D., García Muñoz R., Ramos Segura A., Franco-Navarro I., Bernardeau-Esteller J., García Moreno P., Ruiz J.M.** - Distribution and abundance of *Cymodocea nodosa* meadows and *Pinna nobilis* populations in the Mar Menor coastal lagoon (Murcia, SE of Spain)
12. **Bernardeau-Esteller J., García Muñoz R., Marin-Guirao L., Sandoval-Gil J.M., Ruiz J.M.** - Assessment of long term interaction between the endemic seagrass *Posidonia oceanica* and the exotic green alga *Caulerpa cylindracea* in the South Eastern coast of Spain (Murcia Region)
13. **Čižmek H., Marković K., Frleta-Valić M., Sertić M., Šarčević T., Zubak I.** - Fish assemblages of the shallow coastal waters in the MPA Mljet, Adriatic Sea
14. **Coppa S., Cucco S., De Falco G., Massaro G., Camedda A., Marra S., Simeone S., Conforti A., Tonielli R., De Lucia G.A.** - *Pinna nobilis* within a *Posidonia oceanica* meadow: evidences of how hydrodynamics define this association in the Gulf of Oristano (W Sardinia, Italy)
15. **Ferriol P., Agawin N.S.R., Sintes E., Moyà G., Arce S.** - Temporal variability of nitrogen fixation rates in the rhizosphere of *Posidonia oceanica*
16. **Gaglianone G., Frezza V., Brandano M.** - Sedimentary facies and foraminiferal assemblages from *Posidonia oceanica* meadows of western Mediterranean Sea
17. **Gambi M.C., Di Meglio E., Donnarumma L.** - Forever young... Colonization pattern of epibionts on *Posidonia oceanica* artificial leaves in relation to ocean acidification
18. **Garrard S., Gambi M.C., Scipione M.B., Patti F.P., Lorenti M., Zupo V., Paterson D.M., Buia M.C.** - Responses of macrofaunal communities of *Posidonia oceanica* to ocean acidification

19. **Güreşen A., Aktan Y., Keskin Ç., Orfanidis S.** - Macroalgal assemblages on *Posidonia oceanica* rhizomes in the North-eastern Aegean Sea (Eastern Mediterranean)
20. **Khalil K., Rabouille C., Raimonet M., Andrieux-Loyer F., Ragueneau O., Elkalay K.** - Spatial and temporal organic matter recycling in Elorn and Aulne estuarine sediments
21. **Padiglia A., Cadeddu B., Demurtas D., Bertolino M., Manconi R., Pronzato R.** - Sponges of *Posidonia oceanica* meadows (Sardinia, W-Mediterranean Sea)
22. **Penna M., Bacci T., Nicoletti L., Rende S.F., Trabucco B., Gennaro P., Marusso V., Cicero A.M.** - Epiphytic bryozoan assemblages on *Posidonia oceanica* leaves in the area affected by Costa Concordia wreck
23. **Selmani J., Ruci S., Kasemi D., Beqiraj S., Kashta L.** - Preliminary data on the *Posidonia oceanica* meadows and associated macrozoobenthic community of Sazani island (Albania)

Session III. Seagrass monitoring, management and conservation

24. **Abadie A., Jousseume M., Lejeune P., Gobert S.** - Mapping *Posidonia oceanica* meadows through time. A story of precision, evaluation and fragmentation
25. **Acunto S., Piazzoli L., Cinelli F., De Biasi A.M., Pacciardi L., Ceraudo S., Fersini G., Bonamano S., Piermattei V., Cognetti de Martiis S., Marcelli M.** - Monitoring the effects of the construction of harbor facilities on the priority habitat (1120) **Posidonia* bed (*Posidonia oceanica*)
26. **Bacci T., Rende S.F., La Porta B., Paganelli D.** - The transplanting of *Posidonia oceanica*: Best practices for Italy
27. **Rende S.F., Penna M., Trabucco B., Bacci T., Coppa S., De Lucia G.A., Camedda A., Massaro G., Marra S., Perilli A., Cicero A.M.** - *Pinna nobilis* mapping in *Posidonia oceanica* meadows by video-photographic techniques in the Gulf of Oristano (Sardinia)
28. **Bazairi H.** - Seagrass meadows of the Moroccan Mediterranean coast: state of research and knowledge
29. **Boutahar L., Sghaier Y.R., Ouerghi A., El Kamcha R., Benhoussa A., Ostalé E., Gonzales R., Maestre M., Espinosa F., Bazairi H.** - First data on biomass and abundance of two eelgrass (*Zostera marina*) meadows south to the strait of Gibraltar (Jbel Moussa, Morocco)
30. **Cinti M.F., Frau F., Atzori F., Corrias S.** - Importance of *Posidonia oceanica* meadows for the distribution of the mollusc bivalve *Pinna nobilis* (Linnaeus, 1758) in the Capo Carbonara Marine Protected Area
31. **Frau F., Cinti M.F., Masala V.** - Assessment of the conservation status of *Posidonia oceanica* beds in the marine Site of Community Importance in Villasimius (Italy) within the project Life+ Res Maris
32. **Cossu A., De Luca M., Donno Y.** - Monitoring of marine phanerogams' habitats and assessment of areas exposed to anchoring in the International Marine Park of Bonifacio (Sardinia Area)
33. **Costantino G., Ungaro N., Blonda M., Mariani M., Battista D., Pastorelli A., La Mantia R., Casale V., Perrino V., Barbone E., De Gioia M., Assennato G.** - Recent monitoring data of *Posidonia oceanica* meadows distributed along the Apulian coasts (Eastern-Central Mediterranean Sea) according to the 2000/60 EC Directive
34. **Cvitković I., Despalatović M., Nikolić V., Rožić S., Lušić J., Žuljević A.** - Seagrass *Zostera noltii* as bioindicator of ecological status of Croatian transitional waters
35. **El Kamcha R., Bououarour O., Boutahar L., El Fatouani Z., El Adnani A., Bendahhou Z., Sghaier Y.R., Benhoussa A., Bazairi H.** - Assessment of the environmental health status of the Marchica lagoon (Morocco, Mediterranean) using *Cymodocea nodosa* meadows and its associated macrofauna: preliminary results
36. **Gnisci V., Bonamano S., Micheli C., Cognetti de Martiis S., Piermattei V., Marcelli M.** - Effect of dredging activities on the health status of *Posidonia oceanica* meadows along the north Latium coast (Tyrrhenian Sea)
37. **Guala I., Ivešam L., Krstinić P., Jakl Z., Šijan M., Prvan M., Sertić M., Špika M., Nikolić V., Žuljević A., Cvitković I., Di Carlo G., Rajković Ž.** - Assessment of *Posidonia oceanica* status along the north Croatian coast (Adriatic Sea)
38. **Jakl Z., Šijan M., Prvan M., Sertić M., Čavrak V., Derezanin L., Boi S., Guala I.** - Monitoring of *Posidonia oceanica* meadows in the Telašćica Nature Park (Croatia)

39. **Luzzu F., Tomasello A., Calvo S.** - Detection and mapping of “blue carbon” reservoir storage in *Posidonia oceanica* dead *matte* in front of an extensive industrial area
40. **Parodi V., Molinari A., Bernat P., Moretto P. Cassola M., Coppo S., Bertolotto R.M.** - Evaluation of the ecological status in Liguria’s water bodies applying the PREI index
41. **Panzalis P., Deiana A., Caronni S., Navone A.** - A new methodology for monitoring *Posidonia oceanica* meadows in Tavolara Punta Coda Cavallo MPA using GIS
42. **Scannavino A., Tomasello A., Calvo S.** - Large-scale *Posidonia oceanica* restoration in a Site of National Interest using an innovative bio-plastic transplant system
43. **Semroud R., Boumaza S., Khazimi O., Belbacha S., Boukortt R., Bengrine L., Guelmami A., Guerrah R., Nour I., Boughanem H., Naït-Tayeb A., Tarmoul F.** - Setting up of monitoring systems for *Posidonia oceanica* meadows in the Bou Ismaïl bay (Algeria, southern Mediterranean Sea)
44. **Varda D.** - Some historical records of *Posidonia oceanica* *matte* in surrounding of Bar, Montenegro
45. **Winters G., Tov R.S., Edelist D., Elmaliach T., Rilov G., Neumark N., Abramovich S.** - A GIS-based tool to protect seagrasses in the Gulf of Aqaba – mapping their distribution, ecosystem services and potential threats
46. **Zakhama-Sraieb R., Sghaier Y.R., Ben Hmida H., Charfi-Cheikhrouha F.** - Seasonal variation of metallic trace elements concentration in *Posidonia oceanica* leaves in El Kantaoui (Eastern coast of Tunisia)

Information for oral and poster presenters

Oral Presentations

Oral presentations will be scheduled in 15-minute time slots. Presentations should not exceed 12 minutes, to allow at least 3 minutes for response to questions from the audience. The time limit will be strictly enforced to keep the workshop to schedule.

Poster Presentations

Posters will be up all week for viewing with designated days and times for poster presentations.

Posters will be presented depending upon the poster session to which your presentation has been assigned. You will be expected to be available to present your poster during the designated session. Authors of posters are asked to adhere to designated set-up and tear-down instructions and times.