

# DEVOTES-EUROMARINE Summer School

6th to 9th June 2016 . Aquarium of Donostia - San Sebastián (Spain)

**“Marine ecosystem services,  
management and governance:  
linking social and ecological research”**



Transforming  
Science into  
Business



PML | Plymouth Marine  
Laboratory



DONOSTIA SAN SEBASTIAN  
AQVARIUM

A large underwater photograph showing a scuba diver in full gear swimming over a vibrant coral reef. The water is clear and blue, and the coral is diverse in color and shape.

# PROGRAMME



This course is supported by the EuroMarine Network  
[www.euromarinenetwork.eu](http://www.euromarinenetwork.eu)

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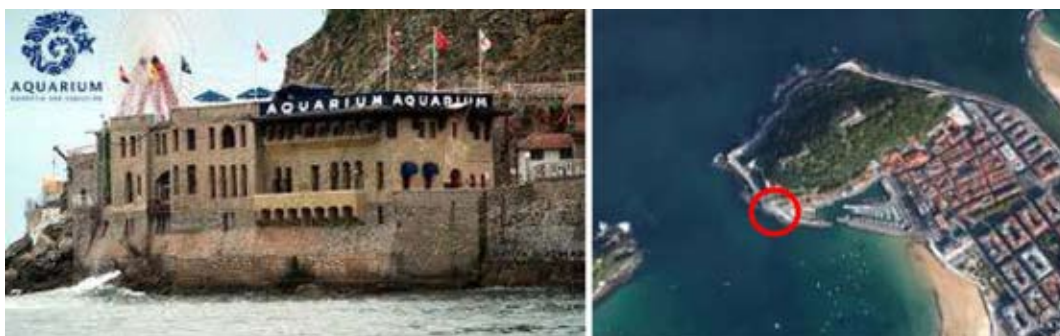
## “Marine ecosystem services, management and governance: linking social and ecological research”

### 1 Title

Marine ecosystem services, management and governance: linking social and ecological research.

### 2 Date, venue and hosting organisation

The summer school will be held from 6th to 9th June 2016 (coinciding with the week of the Oceans' Day on 8th June), at Aquarium of San Sebastian (Spain). AZTI is the hosting organization. This is the 13th AZTI's Summer School and the 4th DEVOTES Summer School. We want to highlight the fact that San Sebastian is European Capital of the Culture in 2016.



### 3 Organizer

Organisations	Countries	Scientists
AZTI	Spain	Angel Borja
SYKE	Finland	Anna-Stiina Heiskanen
PML	UK	Melanie Austen

### 4 Contact person

Angel Borja (AZTI, Marine Research Division)  
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### 5 Description of Topic, objectives, outcomes and expected impact

The topic for this summer school relates to marine ecosystem services and the links between their assessment, mapping and the need for a socio-ecological framework to address the important management issues related to the governance of the oceans. Governing the oceans and keeping them in a healthy state requires activities at sea to be sustainable, so that the ecosystem services provided by the oceans and the functionality of the ecosystems can be maintained.

The attendees will acquire new knowledge on recent trends in marine research, in relation to the management and governance of our oceans. This summer school will focus on the integration of different sciences (i.e. social, economic and ecological) as a means to enhance the potential of our oceans through adequate management and governance, for which assessment and mapping of ecosystem services is crucial. This course will explore this at different spatial scales and in management and governance applications (e.g. to the European Marine Strategy Framework Directive (MSFD), the Water Framework Directive (WFD), the Biodiversity Strategy 2020; etc.). Hence, the main objective of the school is to give an overview on ecosystem services assessment, and its relationship with ocean and coastal livelihoods, management and governance.

This objective is aligned with current concerns that multiple EU-marine related policies (e.g., new Common Fisheries Policy, Integrated Maritime Policy, MSFD, WFD, Habitats and Birds Directives, Maritime Spatial Planning, etc.), strategies (i.e. Blue Growth, Biodiversity and Smart Growth strategies) and international agreements (E.g. OSPAR, HELCOM, Convention on Biological Diversity, etc.) converge and in some cases overlap, all with the clear objective of maintaining the oceans in a healthy state, but making management of marine ecosystems and resources rather complex.

Together with EU projects which have worked on this topic (e.g. VECTORS, DEVOTES), the training of attendees to the school will promote the implementation of the abovementioned directives and strategies, assisting managers and stakeholders in a better understanding of the oceans and an adequate implementation.

As an important outcome of this course (in addition to the presentations, which will be freely available after the school), the professors participating in the course will prepare an open access position paper on this topic, to be submitted to a broad scope scientific journal (e.g. PlosOne, Frontiers in Marine Science, etc.). This will be a cross-cutting review: Where are we now and where are we going in this topic?, What are the strengths, weaknesses and limitations of existing tools to assess ecosystem services?

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### 6 Programme and timeline

#### Day 1 (6th June): 18:00-20:30 Registration and Ice-breaking

#### Day 2 (7th June): Introduction to the course and ecosystem services in practice (evaluation, mapping, etc.)

- 9:00-9:30 Welcome and introduction to the course (Angel Borja, AZTI, Spain).
- 9:30-10:30 Marine ecosystem services: Linking indicators to their classification (Melanie Austen, Plymouth Marine Laboratory, UK)
- 10:30-11:00 Coffee Break (attendees posters displayed in the coffee room)
- 11:00-12:00 Non-market values for ecosystem services (Kerry Turner, University of East Anglia, UK)
- 12:00-13:00 Market values for ecosystem services (Arantza Murillas, AZTI, Spain).
- 13:00-16:00 Break for lunch
- 16:00-18:00 Interactive session with the participants: What do you think ecosystem services are? Capacity, flow and benefits. Chaired by Kerry Turner, assisted by the remainder professors.

#### Day 3 (8th June): Ecosystem services management

- 9:00-10:00 Big Data, Marine Protected Areas and Ecosystem Services (Brendan Fisher, University of Vermont, USA).
- 10:00-11:00 Fishing, Farming and Food Security: Ecosystem Management and Coastal Livelihoods (Brendan Fisher, University of Vermont, USA).
- 11:00-11:30 Coffee Break (attendees posters displayed in the coffee room)
- 11:30-12:30 Predicting Ecosystem Services changes in the future: the developing role of socio-ecological modelling (Melanie Austen, Plymouth Marine Laboratory, UK)
- 12:30-13:30 Cost-Benefit Analysis of environmental management measures applying the ecosystem approach (Soile Oinonen, SYKE, Finland)
- 13:30-16:00 Break for lunch
- 16:00-17:00 Presentation of posters and discussion in the coffee room
- 17:00-19:00 Round-Table with the professors. Open discussion with the attendees

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### Day 4 (9th June): The science-policy interface and the role of science in governance

- 9:00-10:00 Linking social and ecological sciences in marine governance (Mike Elliott, University of Hull, UK).
- 10:00-11:00 Ecosystem services in the Regional seas’ holistic assessments (Anna-Stiina Heiskanen, Finland)
- 11:00-11:30 Coffee Break
- 11:30-12:30 Gaps and overlaps in the integration of EU marine-related policies (Mike Elliott, University of Hull, UK)
- 12:30-13:30 Beyond EU policies: EU strategies and international agreements (María C. Uyarra, AZTI, Spain)
- 13:30-13:45 Wrap-up of the course (Angel Borja, AZTI, Spain)
- 13:45 End of the course