



ERASMUS MUNDUS MASTERS COURSE

EUROPEAN MSc  
IN MARINE ENVIRONMENT AND RESOURCES

MER CONSORTIUM



SPANISH MEC QUALITY AWARD  
2008-2012

9<sup>th</sup> INTERNATIONAL POSTGRADUATE COURSE\*

## RESEARCH in MARINE ENVIRONMENT & RESOURCES (6 ECTS) - RiMER

PART I (3 ECTS): FEBRUARY 2-6, 2015, AQUARIUM, Donostia-San Sebastián

PART II (3 ECTS): JUNE 22-26, 2015, PIE-UPV/EHU, Plentzia (Bizkaia)

Organized by: MER Master (UPV/EHU)

MER Consortium, Res Ctr Exper Mar Biol & Biotech (Plentziako Itsas Estazioa; PIE-UPV/EHU), U Basque Country

### Coordinators:

Dr Adolfo Uriarte, AZTI-Tecnalia (Pasaia)  
Dr Michael Collins, PIE-UPV/EHU (Plentzia)  
Dr Carlos Garcia Soto, IEO (Santander)  
Dr Larraitx Garmendia, PIE-UPV/EHU (Plentzia)  
Dr Ionan Marigómez, PIE-UPV/EHU (Plentzia)



### Additional information:

MER SECRETARIAT  
Res Ctr Exper Mar Biol & Biotech  
Plentzia Marine Station (PIE-UPV/EHU)  
U Basque Country  
Areatza, 48620 Plentzia-Bizkaia  
Telf: +34 946018450  
e-mail: mer@merconsortium.eu  
[www.merconsortium.eu](http://www.merconsortium.eu)

\* and MER Master Course "Research in Marine Environment and Resources" (6 ECTS)

### Supporting Institutions:

- Master and Doctorate School (MDE) University of the Basque Country
- Euskampus Fundazioa: "Ocean Health and Sustainable Valorisation" Pole of Knowledge (i-BLUE)



Universidad  
del País Vasco

Euskal Herriko  
Unibertsitatea



Universidad  
del País Vasco



Euskal Herriko  
Unibertsitatea



Plentziako Itsas Estazioa  
Estación Marina de Plentzia





## PROGRAMME RiMER 2015- (I)

### MONDAY 2<sup>nd</sup>: GLOBAL CLIMATE CRISIS (PAST CLIMATE)

- 09:30-10:00; "Welcome and General Introductory Remarks" Vicente Zaragueta (Aquarium SS-FOG), Adolfo Uriarte (AZTI-Tecnalia), Manu Soto (Univ. Basque Country), Ionan Marigómez (MER Consortium)
- 10:00-10:40: "Towards a Strategy for Basque Marine Science" Ad Uriarte (AZTI-Tecnalia)/ M Collins (Bizkaia Xede, PIE-UPV/EHU)
- 10:40-12:00; *Welcome Coffee at the Aquarium and Visit to the Aquarium facilities* Amalia Martínez de Murgía (Aquarium SS)
- 12:00-12:40; "Ecological Responses to Past Climatic Changes", Maria Fernanda Sánchez-Goñi (Univ. Bordeaux 1)
- 12:50-13:30; "Lessons from the Past: the Paleocene Eocene Thermal Maximum Crisis", Thierry Correge (Univ. Bordeaux)
- 13:30-15:00; LUNCH
- 15:00-15:40; "North Atlantic Atmospheric and Oceanic Processes during Greenland Melting and Glaciations", MF Sánchez-Goñi (U. Bordeaux)
- 15:50-16:30; "Tropical Climate Variability from the Chemical Analysis of Coral Skeletons", Thierry Correge (Univ. Bordeaux)
- 16:30-16:50; COFFEE BREAK
- 16:50-18:30; Round table/Seminar: "Fossil Records of Climate Change", T Correge & MF Sánchez-Goñi (Chair)

### TUESDAY 3<sup>rd</sup>: GLOBAL CLIMATE CRISIS (TODAY'S STATUS)

- 09:30-10:20; "Decadal Modulation of El Niño Southern Oscillation (ENSO), through Time", Thierry Correge (Univ. Bordeaux)
- 10:30-11:20; "Ecosystem Response to Sea Level Rise and Global Ocean Warming", Guillem Chust (AZTI-Tecnalia)
- 11:20-11:40; COFFEE BREAK
- 11:40-12:00; "Towards Understanding the Impacts of Global Change on *Vibrio* Species", Vladimir Kaberdin (Ikerbasque, UPV/EHU)
- 12:10-13:20; "From Global Climate Models to Regional Climate Assessment", J Sáenz (Univ. Basque Country)
- 13:20-15:00; LUNCH
- 15:10-15:40; "Climate Change Challenges: Adaptation and Mitigation", I Galarraga (BC3, Basque Country)
- 15:50-18:30; Round table: "Challenges of Global Climate Change to Marine Life and Bioresources" G Chust, J Sáenz, V Kaberdin, I Galarraga, T Correge (Chair)

### WEDNESDAY 4<sup>th</sup>: MARINE RESOURCES AND FISHERIES

- 09:30-10:20; Bio-economic Model for the Ecosystem-based Management of Coastal Fisheries", Jean-Christophe Perea (Univ. Bordeaux)
- 10:30-11:20; "Marine Secondary Production in Biscay Bay", Unai Cotano (AZTI-Tecnalia)
- 11:20-11:40; COFFEE BREAK
- 11:40-12:30; "Fisheries Management in the Bay of Biscay", Andrés Uriarte (AZTI-Tecnalia)
- 12:40-13:30; "Fisheries and Climate Change" Hilario Murua (AZTI-Tecnalia)
- 13:30-15:00; LUNCH
- 15:00-15:40; "MARENET, a Marine Socio-Economic Framework in the Atlantic Region" Alberto Ansuategi (Univ. Basque Country)
- 15:50-18:30; Round table: "Future of Fisheries in Biscay Bay", U. Cotano, H Murua, An Uriarte, J-C Perea, A Ansuategi (Chair)

### THURSDAY 5<sup>th</sup>: BIODIVERSITY CONSERVATION & MANAGEMENT

- 09:30-10:20; "Harmful Algae: a Challenge for Marine Resources Management", Emma Orive (Univ. Basque Country)
- 10:30-11:20; "Marine ecosystem goods and services: coral reefs, tourism and conservation", María C Uyarra (AZTI-Tecnalia)
- 11:20-11:40; COFFEE BREAK
- 11:40-12:30; "Introduced Invasive Species in Coastal Environments", Xavier de Montaudouin (Univ. Bordeaux)
- 12:40-13:30; "Integrative Ecological Status Assessment in Water Framework Directive and Marine Strategy Directive" A Borja (AZTI-Tecnalia)
- 13:30-15:30; LUNCH
- 15:30-16:20; "Measuring Biodiversity in Coastal Environments: Biotic Indices" Antoine Gremare (Univ. Bordeaux)
- 16:30-18:30; Round table: " Biodiversity Conservation and Management. I" MC Uyarra, X de Montaudouin, A Borja, A Gremare, E Orive (Chair)
- 20:30-23:00; COURSE DINNER

### FRIDAY 6<sup>th</sup>: BIODIVERSITY CONSERVATION & MANAGEMENT

- 09:30-10:20; "Environmental Quality in Sediments above Carbon Dioxide Storage Sub-seabed Geological Formations". A Del Valls (Univ. Cadiz)
- 10:30-11:20; "Biodiversity Challenges out of the Blue" Mikel Becerro (CSIC Tenerife)
- 11:20-11:40; COFFEE BREAK
- 11:20-12:30; "Management of the Urdaibai Reserve of the Biosphere" Ibone Ametzaga (Univ. Basque Country)
- 12:40-13:30; "The Exploration of Microbial Biodiversity in the Global Ocean: Some Insights from the Malaspina 2010 Expedition", Jesús María Arrieta (IMEDEA-CSIC)
- 13:30-15:30; LUNCH
- 15:30-17:00; Round table: "Challenges for Biodiversity Conservation and Management. II" M Becerro, JM Arrieta, I Ametzaga, A Del Valls (Chair)
- 17:00-17:20; COFFEE BREAK
- 17:20-19:00; Workshop: "Presentation of Ongoing MER PhD Thesis Research Projects" MER PhD Prog Board
- 19:00-19:15; "Closing Ceremony RiMER 2014-I" MER JPB & V Zaragueta (Aquarium SS-FOG)



[www.ehu.es/PIE](http://www.ehu.es/PIE)

## PROGRAMME RiMER 2015 (II)

### MONDAY 22<sup>nd</sup>: COASTAL MANAGEMENT

- 09:00-09:30; "Welcome and General Introductory Remarks" Ionan Marigómez (PIE-UPV/EHU; MER Consortium), Manu Soto (Univ. Basque Country), Adolfo Uriarte (AZTI-Tecnalia).  
09:30-10:20; "International Conventions and Protection of the Marine Environment from Ship-Source Oil Pollution" Regina Asariotis (United Nations Conference on Trade and Development, UNCTAD, Geneva)  
10:30-11:20; "Climate Change in Coastal Areas: Consequences for Coastal Management" Iñigo Losada (Univ. Cantabria)  
11:20-11:40; COFFEE BREAK  
11:40-12:30; "High Frequency Monitoring in Estuaries: from Processes to Management" Aldo Sottolichio (Univ. Bordeaux)  
12:40-13:30; "Multibeam Bathymetry data for Habitat Mapping on Coastal Shelf" Ibon Galparsoro (AZTI-Tecnalia)  
13:30-15:30; LUNCH  
15:30-16:20; "Biorock Reefs" Thomas Goreau (Global Coral Reef Alliance, Jamaica)  
16:30-18:30; Round table: "Coastal Management" I Losada, I Galparsoro, T Goreau, A Sottolichio, R Asariotis (Chair)

### TUESDAY 23<sup>rd</sup>: COASTAL AND SEDIMENT DYNAMICS

- 09:30-10:20; "Predicting Coastal Dynamics: on Numerical Modeling and *Plastic Mushrooms*" Mike Collins (Bizkaia Xede, PIE-UPV/EHU)  
10:30-11:20; "Morphodynamic Monitoring of Beaches with Optical Methods" Adonis F Velegrakis (U Aegean, Greece)  
11:20-11:40; COFFEE BREAK  
11:40-13:30; "Trace Element Transfer at the Continent-Ocean Interface", Jörg Schafer (Univ. Bordeaux)  
13:30-15:30; LUNCH  
15:30-16:20; "Climate Change Impacts on Ports" Regina Asariotis (UNCTAD, Geneva)  
16:30-18:30; Round table: "Coastal and Sediment Dynamics" A Velegrakis, R Asariotis, J Schafer, M Collins (Chair)

### WEDNESDAY 24<sup>th</sup>: MARINE ECOSYSTEM HEALTH

- 09:30-10:20; "Persistent Organochlorines in Estuaries and Coastal Areas", Nestor Etxebarria (Univ. Basque Country)  
10:30-11:20; "Consequences of Emerging Pollutants for Marine Ecosystem Health", Miren P Cajaraville (Univ. Basque Country)  
11:20-11:40; COFFEE BREAK  
11:40-12:30; "Gene Expression and Sex Differentiation in Polluted Waters", Ibon Cancio (Univ. Basque Country)  
12:40-13:30; "Coral Bleaching due to Pollution and Climate Change", Mathieu Poulicek  
13:30-15:30; LUNCH  
15:30-17:30; "Diversity of Diversities in Marine Sponges: a Hidden Challenge" Mikel Becerro (CSIC, Blanes)  
17:30-18:30; Round table: "Marine Pollution and Ecosystem Health Assessment" N Etxebarria, I Cancio, M Poulicek, M Becerro, MP Cajaraville (Chair)

### THURSDAY 25<sup>th</sup>: MARINE BLUE GROWTH

- 09:30-10:20; "Marine Bioprospection for Research and Industry Exploitation" Simon Munt (I+D Pharmamar, Madrid)  
10:35-11:20; "EMBRC: an European Research Infrastructure to Sustain Marine Blue Biotechnology" Ibon Cancio (PIE-UPV/EHU)  
11:20-11:40; COFFEE-BREAK  
11:40-12:30; "Funding Biotechnology Projects in Europe" Aitor Cayero (Albia CP, Bilbao)  
12:40-13:30; "Sea urchins as models in cancer research" Banafshé Larjani (Ikerbasque, UPV/EHU-CSIC)  
13:30-15:30; LUNCH  
15:30-16:20; "Marine Biotechnology: Completing the Scene for Blue Growth Challenges" Ionan Marigomez (PIE-UPV/EHU)  
16:30-18:30; Round table: "Marine Blue Growth in the XXI<sup>th</sup> Century" I Cancio, A Cayero, I Marigomez, S Munt, B Larjani (Chair)

### FRIDAY 26<sup>th</sup>: ENVIRONMENTAL SPECIMEN BANKS (ESBs)

- 09:30-10:20; "Environmental Specimen Banks: Present Status and Future Challenges" Jan Koschorreck (German ESB-UDP, Germany)  
10:30-11:20; "Environmental Long-term Trends Unveiled by Natural History Museums and ESBs" Anders Bignert (NHM Stockholm, Sweden)  
11:20-11:40; COFFEE-BREAK  
11:40-12:30; "Seabird and Marine Mammal Tissue Archives and Monitoring" Paul Becker (NIST, Hollings Marine Lab, NOAA, Charleston, USA)  
12:40-13:30; Round table: "ESBs for the XXI<sup>nd</sup> Century", A Bignert, J Koschorreck, P Becker (Chair)  
13:30-15:30; LUNCH  
15:30-18:00; Workshop Cinema+Discussion Session, Eduardo Angulo (PIE-UPV/EHU)  
18:00-18:30; "Closing ceremony" MER JPB;  
18:30-19:00; FAREWELL TERRACE WINE

JUNE 22-26 2015 PLENTZIA MARINE STATION (PIE-UPV/EHU)



## Introduction

The International Postgraduate Course (**6 ECTS**) will take place for 2 weeks between **2-6 February 2015 (3 ECTS)** in the Aquarium of Donostia-San Sebastian (RiMER2015-I; Aquarium-SS) and between **22-26 June 2015 (3 ECTS)** in the Plentzia Marine Station of the University of the Basque Country (RiMER2015-II, PIE-UPV/EHU). It will consist of lectures, workshops, round table discussions and practicals.

Lectures (47 hours) and 15 additional teaching hours (practicals, workshops, round tables, ...) have been planned (67 hours in total). All lectures will be given in English. The course is directed at postgraduate students and PhD candidates, aiming to become specialized in the field of marine environment and resources.

Participants will receive a certificate, with an indication of lectures and practicals attended.

Students who request it will receive the same academic treatment as the "official" students enrolled in the MER MSc and will be given marks, after examination. Thus, together with the attendance certificate, a supplementary certificate indicating the obtained marks (and ECTS) will be provided (i.e. a complete certificate).

## Registration

Students not registered in the MER Master may register in this course. The **registration fee** is 225 € for the whole course (60 ECTS; 2 weeks) and 150 € for each individual 1 week module (RiMER2015-I in Aquarium-SS or RiMER2015-II in PIE-UPV/EHU). The registration includes attendance at all teaching activities and course documentation.

For registration, participants should fill in the [registration form available on line](#) and send it to MER Secretariat **before the 23<sup>rd</sup> January 2015 (RiMER2015 or RiMER2015-I) and before 29<sup>th</sup> May 2015 (RiMER2015-II)**, and follow the payment instructions indicated on the web. All participants will receive a receipt of payment and notification of acceptance in the course.

## Grants

A limited number of grants covering the registration fee are offered by the MER CONSORTIUM. Students wishing to be considered must indicate it in the registration form. Students receiving a grant will be refunded during the course.

## Accommodation

Participants wishing to obtain accommodation in Donostia-San Sebastian, at a student residence (approx. 55 €/day breakfast incl.), should contact the Aquarium administration by email:

RiMER COURSE ([eventos@aquariumss.com](mailto:eventos@aquariumss.com))

Participants wishing to obtain accommodation in Plentzia should contact the MER Secretariat by email:

MER Secretary (PIE-UPV/EHU) ([mer@merconsortium.eu](mailto:mer@merconsortium.eu))

